SECTION INTERIOR LIGHTING SYSTEM

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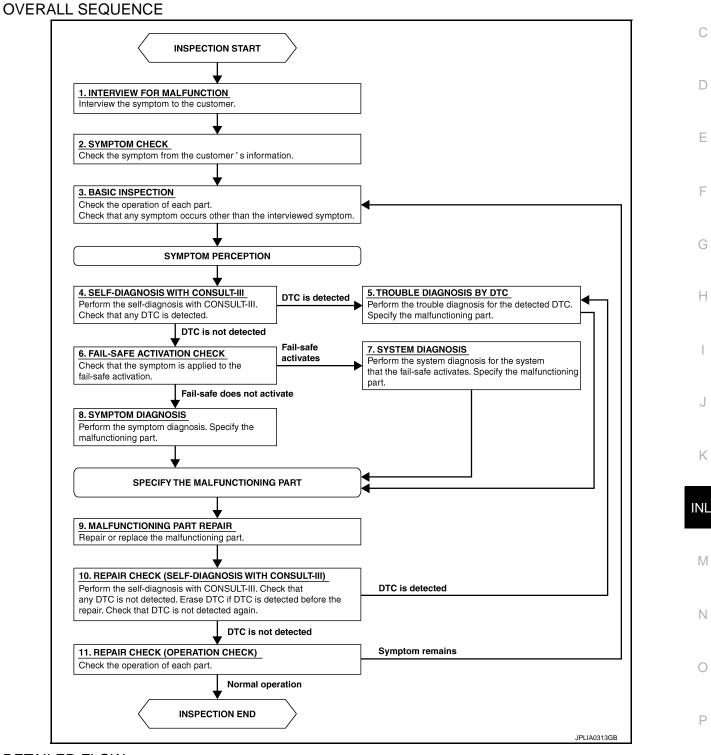
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SERVICE DATA AND SPECIFICATIONS
(SDS)

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2. 2.SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4.SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5.TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9. 6.FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7. NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9.MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5. NO >> GO TO 11.

11.REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

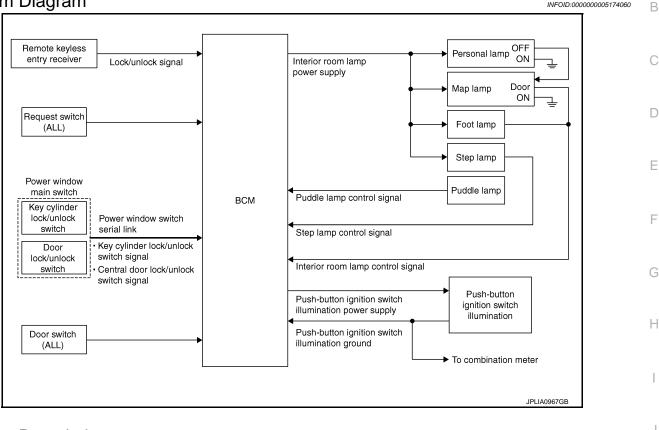
Does it operate normally?

YES >> INSPECTION END NO >> GO TO 3.

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

 OUTLINE Interior room lamps* are controlled by interior room lamp timer control function of BCM. *: Map lamp, foot lamp and personal lamp (when map lamp switch is in DOOR position). Step lamp is controlled by step lamp control function of BCM. Puddle lamp is controlled by puddle lamp timer control function of BCM. Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control 	K
 function of BCM. Interior room lamps and puddle lamp are illuminated by welcome light function of Intelligent Key system. Refer to <u>DLK-33, "WELCOME LIGHT FUNCTION : System Description"</u>. 	M
INTERIOR ROOM LAMP TIMER CONTROL	Ν

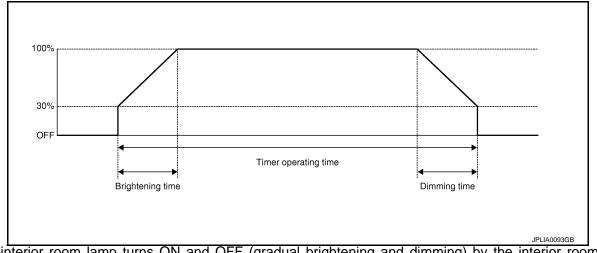
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< SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



- The interior room lamp turns ON and OFF (gradual brightening and dimming) by the interior room lamp timer.
- BCM judges the vehicle condition with the following items. It activates the interior room timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT-III. Refer to <u>INL-16, "INT LAMP : CON-</u><u>SULT-III Function (BCM - INT LAMP)"</u>.

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
- Any door opens before all doors close.
- Ignition switch is turned $ON \rightarrow OFF$.
- Any door unlock signal is detected when all doors close with ignition switch OFF.

NOTE:

Restart the timer if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the interior room lamp OFF.

- The interior room lamp timer operating time is expired.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

PUDDLE LAMP TIMER CONTROL

Puddle Lamp Timer Basic Operation

- BCM controls the ground to turn the puddle lamp ON.
- The puddle lamp turns ON and OFF by the puddle lamp timer.
- BCM judges the vehicle condition with the following items. It activates the puddle lamp timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)

Puddle Lamp ON Operation

BCM activates the puddle lamp timer in any of the following conditions to turn the puddle lamp ON for a period of time.

- Any door opens.
- Any door opens before all doors close.
- Ignition switch is turned $ON \rightarrow OFF$.

< SYSTEM DESCRIPTION >	
 Any door unlock signal is detected when all doors close with ignition switch OFF. NOTE: Restart the timer if new condition is input during the timer operating time. 	А
 Puddle Lamp OFF Operation BCM stops the timer in any of the following conditions to turns the puddle lamp OFF. The puddle lamp timer operating time is expired. The interior room lamp OFF conditions. 	В
 The interior room lamp timer operating time is expired. PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL 	С
 Push-button Ignition Switch Illumination Basic Operation BCM provides the power supply and the ground to turn the push-button ignition switch illumination ON. BCM cuts the ground supply while the each illumination (tail lamp) ON. BCM switches to the ground control with the meter illumination control function. 	D
 Push-button Ignition Switch Illumination ON Operation BCM turns the push-button ignition switch illumination ON in the following conditions. Ignition switch ON Each illumination (tail lamp) ON Any of the following conditions with ignition switch OFF Engine start permission is entered. 	E
 Intelligent Key inserted into the key slot. Driver door is LOCK → UNLOCK. Driver door is open. 	G
Push-button Ignition Switch Illumination OFF Operation BCM turns the push-button ignition switch illumination OFF in any of the following conditions. • The push-button ignition switch illumination ON conditions do not satisfy.	Η
 All of the following conditions with ignition switch OFF Each illumination (tail lamp) OFF The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF) or the driver door is UNLOCK → LOCK. 	I
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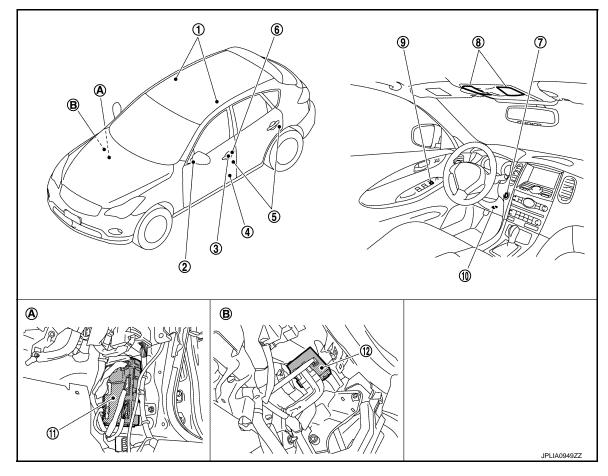
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< SYSTEM DESCRIPTION >

Component Parts Location

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- 1. Personal lamp
- 4. Step lamp
- 7. Push-button ignition switch illumination
- 10. Foot lamp
- A. Dash side lower (passenger side)

Component Description

- 2. Puddle lamp
- 5. Door switch
- 8. Map lamp
- 11. BCM
- B. Over the glove box
- 3. Request switch
- 6. Key cylinder lock/unlock switch
- 9. Door lock/unlock switch
- 12. Remote keyless entry receiver

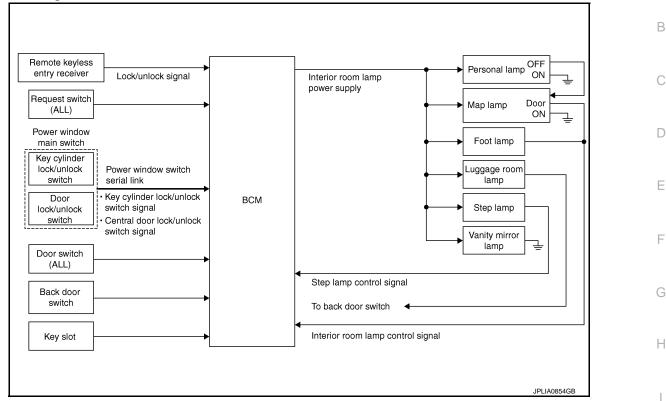
Part	Description
BCM	 Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamp ON/OFF. Activates the puddle lamp timer depending on the vehicle condition to turn the puddle lamp ON/OFF. Turns the step lamp ON/OFF according to any door switch status.
Remote keyless entry receiver	Receives the lock/unlock signal from keyfob.Transmits the lock/unlock signal to BCM.
 Request switch Key cylinder lock/unlock switch Door lock/unlock switch 	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

OUTLINE

- Interior room lamp battery saver is controlled by BCM.
- BCM turns applicable lamps OFF depending on the vehicle condition. This function prevents the battery from over-discharging if the driver neglect turning OFF the any lamps.

Applicable lamps

- Map lamp
- Foot lamp
- Personal lamp
- Step lamp
- Luggage room lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned OFF, BCM operates the timer for a period of time to cut the interior room
 N lamp power supply.
- BCM restart the timer when any of the following signals changes while operating the timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)
- Back door switch signal
- Key switch signal (Key slot)
- BCM provides the interior room lamp power supply continuously when the ignition switch position is other than OFF.

NOTE:

Each function of interior room lamp battery saver can be set by CONSULT-III Refer to <u>INL-17, "BATTERY</u> <u>SAVER : CONSULT-III Function (BCM - BATTERY SAVER)"</u>.

INL-9

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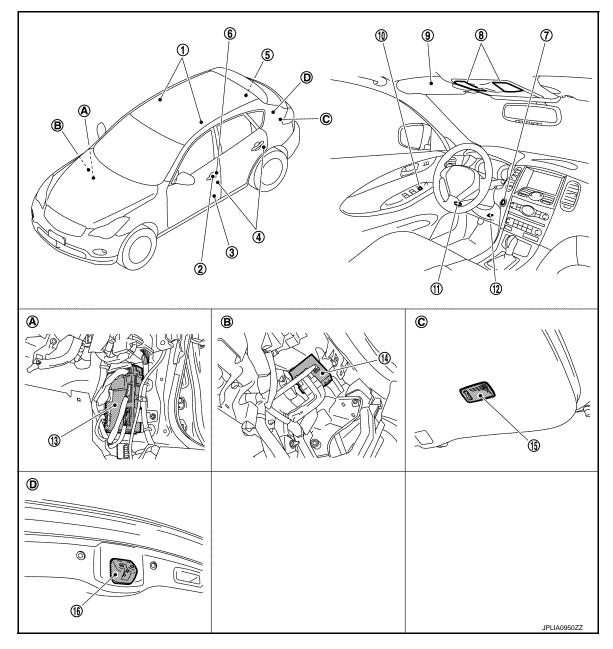
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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location



- 1. Personal lamp
- 4. Door switch
- 7. Push-button ignition switch
- 10. Door lock/unlock switch
- 13. BCM
- 16. Back door switch
- A. Dash side lower (passenger side)
- D. Back door lock assembly

- 2. Request switch
- 5. Luggage room lamp (luggage side)
- 8. Map lamp
- 11. Foot lamp
- 14. Remote keyless entry receiver
- B. Over the glove box

- 3. Step lamp
- 6. Key cylinder lock/unlock switch
- 9. Vanity mirror lamp
- 12. Key slot
- 15. Luggage room lamp (back door side)
- C. Back door

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Component Description

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Part Description	
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply.
Remote keyless entry receiver	Receives the lock/unlock signal from keyfob.Transmits the lock/unlock signal to BCM.
 Request switch Key cylinder lock/unlock switch Door lock/unlock switch 	Inputs the lock/unlock signal to BCM.
Door switchBack door switch	Inputs a switch signal to BCM.
Key slot	Inputs the key switch status to BCM.

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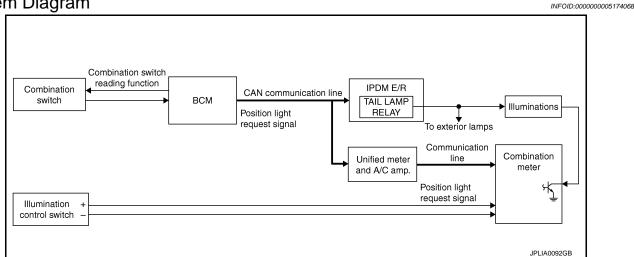
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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

Each illumination lamp is controlled by each function of BCM, IPDM E/R and combination meter.

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

Relay control function

Control by combination meter

 Meter illumination control function (Refer to <u>MWI-26, "METER ILLUMINATION CONTROL : System Dia-</u> gram".)

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter (through the unified meter and A/C amp.) according to tail lamp ON condition.

Tail lamp ON condition

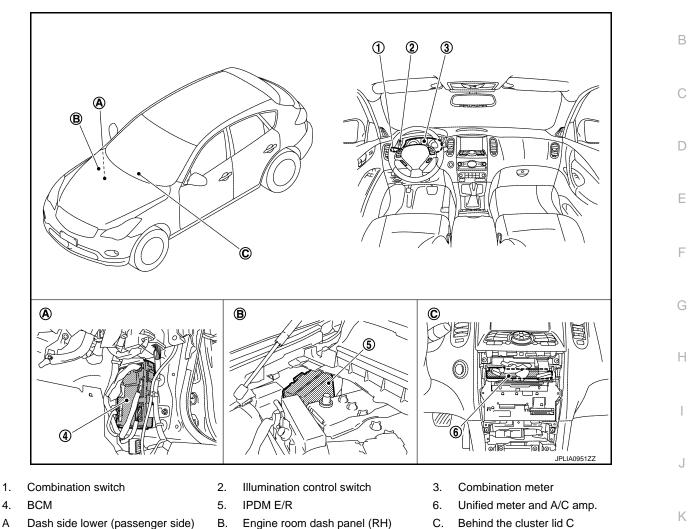
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal (through the unified meter and A/C amp.). Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground side).

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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Component Description

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Part	Description
ВСМ	 Detects each switch condition by the combination switch reading function. Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter. [with CAN communication (through the unified meter and A/C amp.)]
IPDM E/R	Controls the integrated relay according to the request from BCM (with CAN communication).
Combination meter	 Enters in nighttime mode according to the request from BCM (with CAN communication). Controls the each illumination in the nighttime mode. Refer to <u>MWI-26</u>, "<u>METER ILLUMINATION CONTROL</u>: <u>System Diagram</u>".
Combination switch (Lighting & turn signal switch)	Refer to BCS-8. "System Diagram".

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III opera- tion manual.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	Read and save the vehicle specification.Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

Sustem	Sub system coloction item	Diagnosis mode			
System	Sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp timer	INT LAMP	×	×	×	
Exterior lamp	HEAD LAMP	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER	×	×	×	
_	AIR CONDITONER*				
Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
IVIS - NATS	IMMU		×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Back door open system	TRUNK		×	×	
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×		
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	TPMS (AIR PRESSURE MONITOR)		×	×	

NOTE:

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT-III.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC	-	While turning power supply position from "LOCK" to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	
	CRANK>RUN	Power position status of the moment a particular DTC is detected	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)	
	ACC>OFF		While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply posi- tion is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply posi- tion is "LOCK".) to low power consumption mode	
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steer- ing is locked.)	
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

INT LAMP

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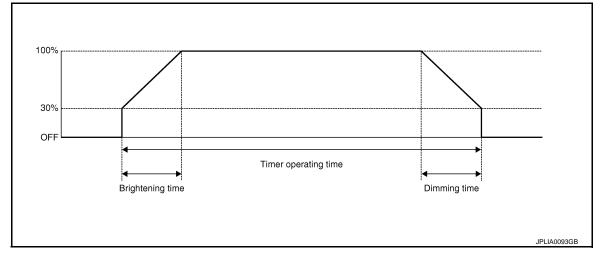
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< SYSTEM DESCRIPTION >

INT LAMP : CONSULT-III Function (BCM - INT LAMP)

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WORK SUPPORT



Service item	Setting item	Setting		
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function		
SET I/L D-UNLOK INTOON	OFF	Without the interior room lamp timer function		
	MODE 2	7.5 sec.		
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 4*	3 sec.		
	MODE 5	0 sec.		
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.		
R LAWF HIVER LUGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.		

*: Initial setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from central door lock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn map lamp and personal lamp ON (Map lamp switch is in DOOR position).
	Off	Stops the interior room lamp control signal to turn map lamp and personal lamp OFF.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn step lamp ON.
	Off	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	On	Outputs the trunk room lamp control signal to turn step lamp ON.
	Off	Stops the trunk room lamp control signal to turn step lamp ON.

BATTERY SAVER

BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)

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WORK SUPPORT

Service item	Setting item	Setting			
BATTERY SAVER SET	On*	With the e	With the exterior lamp battery saver function		
DATTERT SAVER SET	Off	Without th	Without the exterior lamp battery saver function		
	On*	With the i	With the interior room lamp battery saver function		
ROOM LAMP BAT SAV SET	Off	Without th	ne interior room lamp battery saver function		
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp better / op/or timer exercting time		
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.		

*: Initial setting

DATA MONITOR

Revision: 2009 August

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
PUSH SW [On/Off]	The switch status input from push-button ignition switch
KEY SW-SLOT [On/Off]	Key switch status input from key slot
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW-BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status received from central door lock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply to turn interior room lamp OFF.
	On	Outputs the interior room lamp power supply to turn interior room lamp ON.*

*: Each lamp switch is in ON position.

	POWER SUPPLY AND GROUND CIRCUIT
< DTC/CIRCUIT DIAGNO	DSIS >

DTC/CIRCUIT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT BCM

BCM : Diagnosis Procedure

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.	
Battery power supply	К	
Dattery power supply	10	Е

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connectors.
- 3. Check voltage between BCM harness connector and ground.

	Terminals		
(+) (-)			Voltage
BC	M		(Approx.)
Connector	Terminal	Ground	
M118	1	Ground	Detter
M119	11		Battery voltage

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

B	СМ		Continuity		
Connector	Terminal	Ground	Continuity		
M119	13	-	Existed		
D					

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

Provides the interior room lamp power supply. Also cuts the power supply when the interior room lamp battery saver activating.

Component Function Check

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Map lamp
- Personal lamp
- Foot lamp
- Step lamp
- Vanity mirror lamp
- Luggage room lamp
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF

On : Interior room lamp ON

Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
- NO >> Refer to INL-20, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- 2. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 3. With operating the test item, check voltage between BCM harness connector and ground.

	Terminals		Test item	
(+)		(–)	iest item	Voltage (Approx.)
BC	N	BATTER		voltage (Applox.)
Connector	Terminal	Ground	SAVER	
M119	4	Ground	Off	0 V
101119	4		On	Battery voltage

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace BCM.

2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors.
- Roof module (map lamp and personal lamp)
- Foot lamp (driver side)
- Foot lamp (passenger side)
- Vanity mirror lamp (LH)
- Vanity mirror lamp (RH)
- Luggage room lamp (luggage side)
- Luggage room lamp (back door side)

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Step lamp (driver side) -
- Step lamp (passenger side)Check continuity between BCM harness connector and each interior room lamp harness connector.

nnector			room lan	η	Continuity
	Terminal	Connector		Terminal	Continuity
		Roof module	R11	12	
		Foot lamp (driver side)	M27	1	
		Foot lamp (passenger side)	M113	1	
		Vanity mirror lamp (LH)	R12	2	
M119	4	Vanity mirror lamp (RH)	R13	2	Existed
		Luggage room lamp (luggage side)	B229	2	
		Luggage room lamp (back door side)	D110	2	
		Step lamp (driver side)	D12	1	
		Step lamp (passenger side)	D42	1	
s conti	<u>nuity exis</u>	. <u>t?</u>			
	GO TO				
) >>	kepair	he harnesses or c	unnecto	IS.	
	INITEDIC				
HECK		DR ROOM LAMP F	POWER	SUPPLY	
HECK		DR ROOM LAMP F tween BCM harnes	POWER	SUPPLY	
HECK			POWER	SUPPLY ector and	ground.
HECK	inuity be BCM	tween BCM harnes	POWER	SUPPLY	ground.
CHECK	inuity be BCM	tween BCM harnes	POWER	SUPPLY ector and Contine	ground.
CHECK ck cont Connecto M119 s contin	BCM or nuity exis	tween BCM harnes	POWER ss conno und	SUPPLY ector and Contine Not exis	ground.
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground.
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted
CHECK ck cont Connecto M119 s contin S >>	BCM BCM or nuity exist	tween BCM harnes	POWER ss conno und	SUPPLY ector and Continu Not exis	ground. uity sted

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

Controls each interior room lamp (ground side) by PWM signal. **NOTE:**

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb
- Foot lamp bulb
- **1.**CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

ONSULT-III ACTIVE TEST

- 1. Switch the map lamp switch to DOOR.
- 2. Turn ignition switch ON.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. With operating the test items, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

- YES >> Interior room lamp control circuit is normal.
- NO >> Refer to <u>INL-22</u>, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST

- 1. Turn ignition switch OFF.
- 2. Remove all the bulbs of map lamp, foot lamp and personal lamp.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. With operating the test item, check continuity between BCM harness connector and ground.

BO	CM		Test item	Continuity
Connector	Terminal	Ground	INT LAMP	Continuity
M119	19			Existed
101119	15		Off	Not existed

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM.

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect BCM connector, roof module connector and foot lamp connector.
- 3. Check continuity between BCM harness connector, roof module harness connector, and foot lamp harness connector.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

connector Terminal Connector Terminal Continuity M119 19 Root module R11 9 Existed M119 19 Root module R11 2 Existed Descentinuity exist Existed Root module or the foot lamp. Root module or the foot lamp. O >> Replace the root module or the foot lamp. Root module or the foot lamp. Root module or the foot lamp. CoHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT CHECK INTERIOR ROOM LAMP Control short or and foot lamp connector. Check continuity between BCM harness connector and foot lamp connector. Connector Terminal Ground Continuity M110 19 Or out the issted Not existed M110 19 Or out the issted Not existed Person continuity exist12 ES >> Replace BCM. ES >> Replace BCM. S >> Replace BCM.	Demector Terminal Connector Terminal M119 19 Roof module R11 9 Foot lamp (driver side) M27 2 Existed Foot lamp (passenger side) M113 2 es continuity exist? ES >> Replace the roof module or the foot lamp. 0 >> Repair the harnesses or connectors. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT Turn ignition switch OFF. Disconnect BCM connector, roof module connector and foot lamp connector. Check continuity between BCM harness connector and ground. ES BCM Connector Terminal Ground Continuity M119 19 O es continuity exist? ES	Terminal Connector Terminal Continuity 19 Roof module R11 9 9 19 Foot lamp (driver side) M27 2 Existed Foot lamp (passenger side) M113 2 Existed *>> Replace the roof module or the foot lamp. >>> Repair the harnesses or connectors. K INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT ignition switch OFF. onnect BCM connector, roof module connector and foot lamp connector. k continuity between BCM harness connector and ground. Continuity BCM or 19 Ground Continuity Not existed Not existed *>> Repair the harnesses or connectors. Solution suited for the foot lamp connector. *> Repair the harnesse or connector and ground. Solution suited for the foot lamp connector.	BC	M	Roof mo	dule/foot la	amp	_			
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Image: passenger side Image: passenger side pess continuity exist? YES >> Replace the roof module or the foot lamp. IO >> Replace the roof module or the foot lamp. IO >> Repair the harnesses or connectors. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT Turn ignition switch OFF. Disconnect BCM connector, roof module connector and foot lamp connector. Check continuity between BCM harness connector and ground. Image: Provide the remainder of the rem	Image: passenger side MITS 2 es continuity exist? ES >> Replace the roof module or the foot lamp. O >> Repair the harnesses or connectors. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT Turn ignition switch OFF. Disconnect BCM connector, roof module connector and foot lamp connector. Check continuity between BCM harness connector and ground. Image: Provide the state of the s	Image: passenger side Image: Passenger side tinuity exist? >> Replace the roof module or the foot lamp. >> Repair the harnesses or connectors. K INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT ignition switch OFF. onnect BCM connector, roof module connector and foot lamp connector. k continuity between BCM harness connector and ground. BCM Continuity ignity exist? >> Repair the harnesses or connectors.	M119	19		M27	2	Existed			
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Disconnect BCM connector, roof module connector and foot lamp connector. Check continuity between BCM harness connector and ground. BCM Continuity Connector Terminal M119 19 Des continuity exist? YES >> Repair the harnesses or connectors.	Disconnect BCM connector, roof module connector and foot lamp connector. Check continuity between BCM harness connector and ground. BCM Continuity Connector Terminal M119 19 Continuity exist? Not existed ES >> Repair the harnesses or connectors.	BCM Continuity BCM Continuity Ground Continuity 9 19 tinuity exist? >> Repair the harnesses or connectors.				MP CON	NTROL SI	HORT CIR	CUIT		
Check continuity between BCM harness connector and ground. BCM Continuity Connector Terminal Continuity M119 19 Not existed Des continuity exist? Yes Yes Yes Yes Yes	Check continuity between BCM harness connector and ground. BCM Connector Terminal Ground Continuity M119 19 Not existed es continuity exist? ES >> Repair the harnesses or connectors.	BCM Continuity ctor Terminal Ground 9 19 Not existed tinuity exist? >> Repair the harnesses or connectors.				roof mod	ule conne	ector and f	oot lamp conned	ctor.	
Connector Terminal Ground Continuity M119 19 Not existed Des continuity exist? Yes >> Repair the harnesses or connectors.	Connector Terminal Ground Continuity M119 19 Not existed es continuity exist? ES >> Repair the harnesses or connectors.	Continuity Continuity 9 19 Not existed 19 19 19 19 Not existed >> Repair the harnesses or connectors.									
Connector Terminal Ground Continuity M119 19 Not existed Des continuity exist? Yes >> Repair the harnesses or connectors.	Connector Terminal Ground Continuity M119 19 Not existed es continuity exist? ES >> Repair the harnesses or connectors.	Ctor Terminal Ground 9 19 Not existed tinuity exist? >> Repair the harnesses or connectors.		D 014							
M119 19 Not existed Des continuity exist?	M119 19 Not existed es continuity exist? ES >> Repair the harnesses or connectors.	9 19 Not existed tinuity exist? >> Repair the harnesses or connectors.	Connort		Terminel	C	C	ontinuity			
bes continuity exist? (ES >> Repair the harnesses or connectors.	es continuity exist? ES >> Repair the harnesses or connectors.	<u>tinuity exist?</u> >> Repair the harnesses or connectors.				Ground		nt evieted			
ES >> Repair the harnesses or connectors.	ES >> Repair the harnesses or connectors.	>> Repair the harnesses or connectors.									

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

Controls the step lamp (ground side) to turn the step lamp ON and OFF.

Component Function Check

CAUTION:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- 2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- 3. With operating the test items, check that step lamp turns ON/OFF.

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal. NO >> Refer to INL-24, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK STEP LAMP OUTPUT

CONSULT-III ACTIVE TEST

- 1. Turn ignition switch OFF.
- 2. Remove the step lamp bulbs (driver side and passenger side).
- 3. Turn ignition switch ON.
- 4. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- 5. With operating the test item, check continuity between BCM harness connector and ground.

BC	BCM		Test item	Continuity
Connector	Terminal	Ground	STEP LAMP TEST	Continuity
M119	7	Giouna	On	Existed
WIT19	r		Off	Not existed

Is the measurement value normal?

YES >> GO TO 2. Fixed ON>>GO TO 3. Fixed OFF>>Replace BCM.

2.CHECK STEP LAMP OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector, and step lamp connector.
- 3. Check continuity between BCM harness connector and step lamp harness connector.

BC	М	Step lamp			Continuity
Connector	Terminal	Connector	Terminal	Continuity	
M119	7	Driver side	D12	2	Existed
101113	1	Passenger side	D42	2	LAISIEU

Does continuity exist?

YES >> Replace step lamp.

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STEP LAMP CIRCUIT

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	bair harnesses				А
3.CHECK STE					A
 Turn ignitio Check cont 	n switch OFF. inuity between	BCM harness o	connector and o	around.	
				9.00.00	В
BC	СМ		Continuity	_	
Connector	Terminal	Ground	Continuity		С
M119	7		Not existed	_	
Does continuity					D
YES >> Rej NO >> Rej	pair the harness place BCM.	ses or connecto	rs.		D
					E
					F
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PUDDLE LAMP CIRCUIT

Description

Controls the puddle lamp (ground side) to turn the puddle lamp ON and OFF.

Diagnosis Procedure

1.CHECK PUDDLE LAMP FUSE

1. Turn ignition switch OFF.

2. Check that the following fuse is not fusing.

Unit	Location	Fuse No.	Capacity
Puddle lamp	Fuse block (J/B)	#10	10 A

Is the fuse fusing?

YES >> Replace the fuse.

NO >> GO TO 2.

2.CHECK PUDDLE LAMP INPUT VOLTAGE

1. Turn ignition switch OFF.

2. When any door opened and closed, check voltage between BCM harness connector and ground.

B	BCM		Condition	Voltage
Connector	Terminal	Ground	Condition	voltage
M122	94	Giouna	Door open	0 V
101122	54		Door close	Battery voltage

Is the measurement value normal?

YES >> Replace door mirror assembly (driver side).

NO >> GO TO 3.

3.CHECK PUDDLE LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect BCM connector, and door mirror (driver side) connector.
- 3. Check continuity between BCM harness connector and door mirror (driver side) harness connector.

BCM		door mirror (driver side)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M122	94	D3	14	Existed	

Does continuity exist?

YES >> GO TO 4.

NO >> Repair harnesses or connectors.

4.CHECK PUDDLE LAMP SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M122	94	-	Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGN			INATION CIRCUIT		
Description				А	
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		trol the push	-button ignition switch illumination.	В	
Component Function	on Check		INFOID:000000005174088		
1.CHECK PUSH-BUTT	ON IGNITION SWITCH	ILLUMINATI	ON OPERATION	С	
	tch ON. / ILLUMI" of BCM (INTEL		Y) active test item. ignition switch illumination turns ON/OFF.	D	
On : Push-	button ignition switch i	llumination	ON	Е	
Off : Push-	button ignition switch i	llumination	OFF		
	hition switch illumination ignition switch illumination -27. "Diagnosis Procedu	on circuit is r	—	F	
Diagnosis Procedu	Diagnosis Procedure				
1.CHECK ILLUMINATIO	ON CONTROL SWITCHI	NG OPERA	ΓΙΟΝ		
 Turn the ignition swit With operating the lip 		the push-bu	tton ignition switch illumination turns ON/OFF.	Н	
	griding Switch, check that				
Condition	Push-button ignition switch	illumination			
 Ignition switch ON Lighting switch 1ST	ON				
 Ignition switch OFF Lighting switch OFF Driver door LOCK 	OFF			J	
Does the push-button igr	nition switch illumination	turn ON/OF	<u>?</u>	Κ	
YES >> GO TO 2. NO >> GO TO 3.					
2.CHECK PUSH-BUTT	ON IGNITION SWITCH	ILLUMINATI	ON GROUND CIRCUIT	INL	
 Turn the ignition swit Disconnect BCM control 	tch OFF. nnector and the push-but	tton ignition :		\mathbb{M}	
BCM	Push-button ignition switch	Continuity		Ν	
Connector Terminal	Connector Terminal	Continuity			
M119 14	M50 2	Existed			
Does the continuity exist				0	
YES >> Replace BC NO >> Repair the h	M. arness or the connector.				
3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT					
CONSULT-III ACTIVE 1. Turn the ignition swit 2. Select "ENGINE SW		LIGENT KE	Y) active test item.		

3. With operating the test item, check voltage between BCM harness connector and ground.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Terminals			Test item	
(+)		(–)	Test item	Voltage (Approx.)
BCM			ENGINESW	
Connector	Terminal	Ground	ILLUMI	
M123	133		ON	5 V
			OFF	0 V

Is the measurement value normal?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector and the push-button ignition switch connector.
- 3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M123	133	M50	3	Existed	

Does the continuity exist?

- YES >> Replace push-button ignition switch.
- NO >> Repair the harness or the connector.

5.check push-button ignition switch illumination power supply short circuit

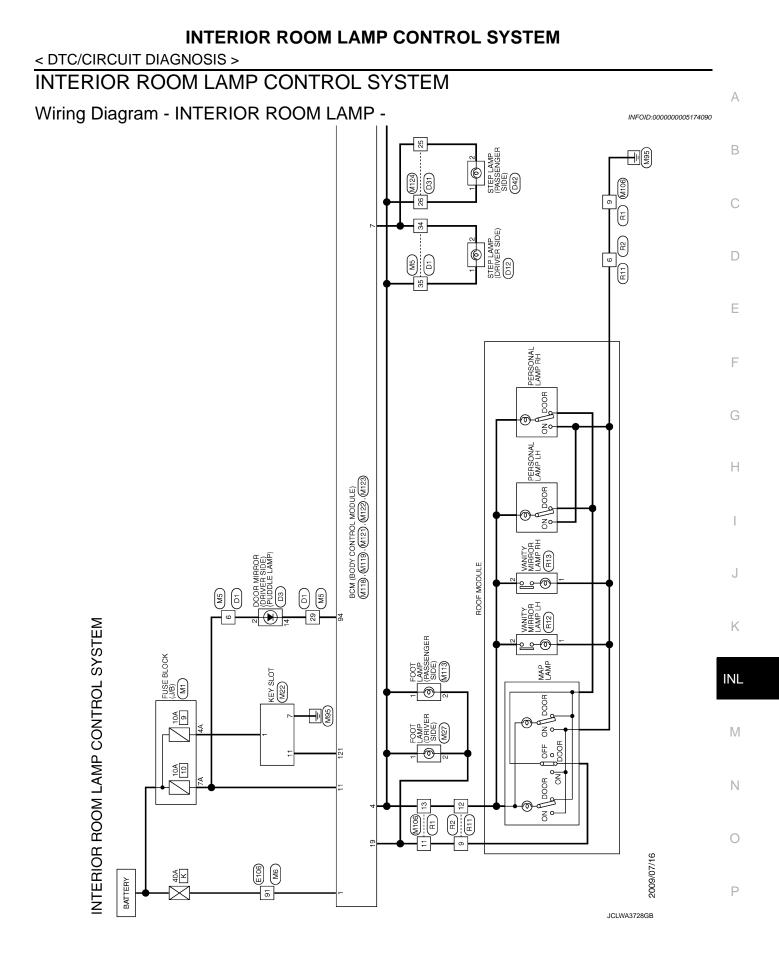
- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector and the push-button ignition switch connector.
- 3. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

B	BCM		Continuity
Connector	Terminal	Ground	Continuity
M123	133	*	Not existed

Does the continuity exist?

YES >> Repair the harness or the connector.

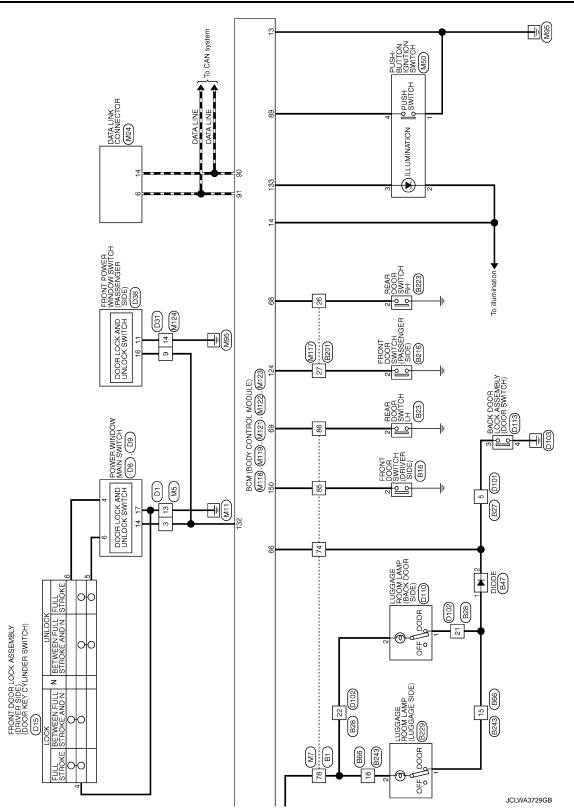
NO >> Replace BCM.



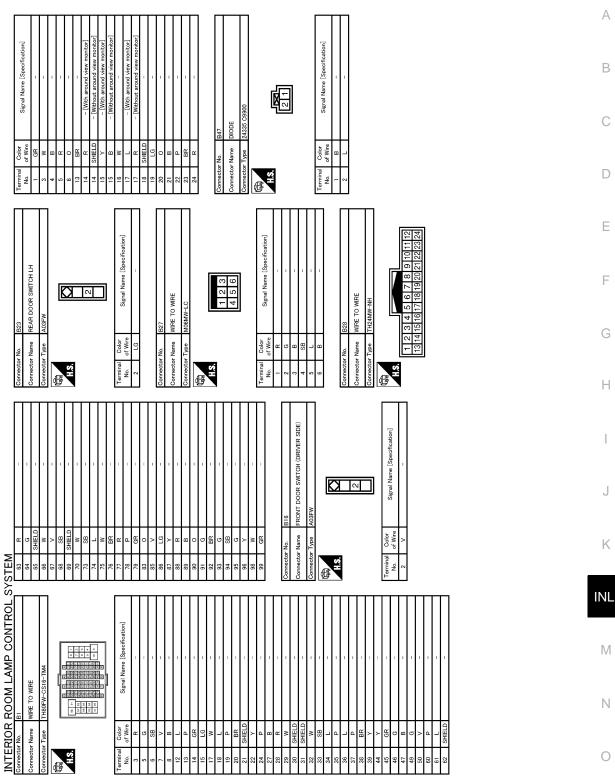
Revision: 2009 August

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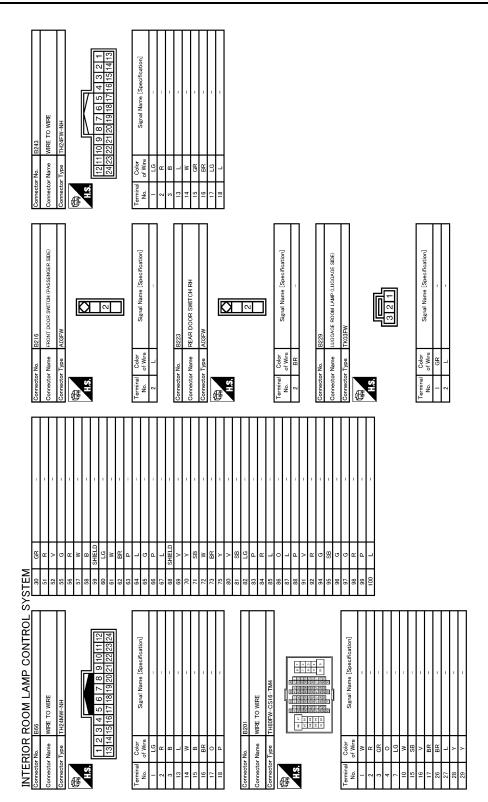
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< DTC/CIRCUIT DIAGNOSIS >



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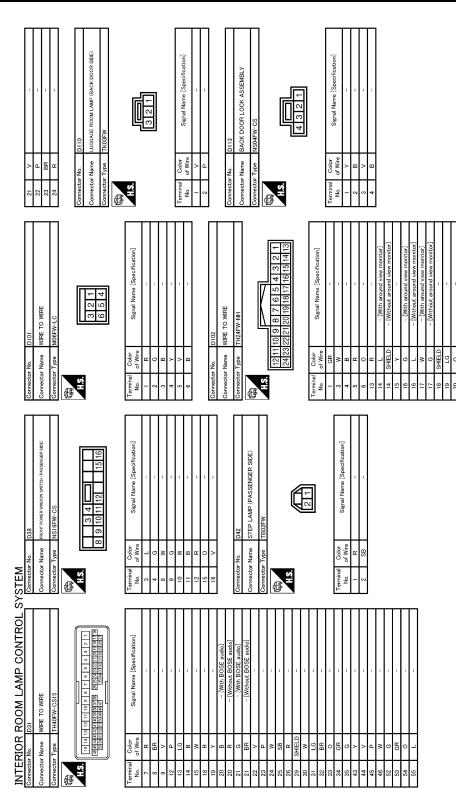
	-
D12 STEP LAMP (DRIVER SIDE) Step LAMP (ORIVER SIDE) TBOEFW D15 D15 Error Nore Look Assemity (DRIVER SIDE) Stepal Name (Specification) Stepal Name (Specification) Stepal Name (Specification)	A
N Name Name Color Name Name Name Name Name Name Name Name	С
Connector Nan Connector Nan Co	D
wrtch werficetion	E
D8 POWER WINDOW MAIN SWITCH NISIER-CS NISIER-CS Signal Name [Specification] Signal Name [Specification]	F
	G
Connector No. Connector No. Connector Name Connector Name Connector Name Connector Name 1 0	Н
- (With automatic drive positioner) - (With but automatic drive positioner) - (Without automatic drive positioner) Signal Name (Speair Lin Commatic Brite drive positioner) Signal Name (Speair Lin Commatic Briter Line Commatic Briter Line) Signal Conternatic Brite Context Line Commatic Briter Line - (Sterrat Line Commatic Briter Line Commatic Briter Line) Signal Context Line Commatic Briter Line - (Sterat Line Commatic Briter Line) - (Sterat Line) </td <td>I</td>	I
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INTERIOR ROOM LAMP CONTROL SYSTEM

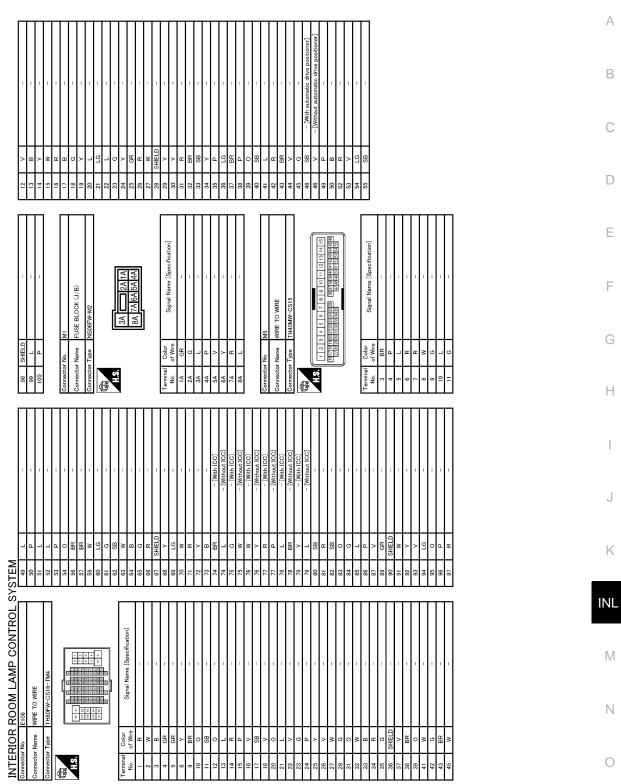
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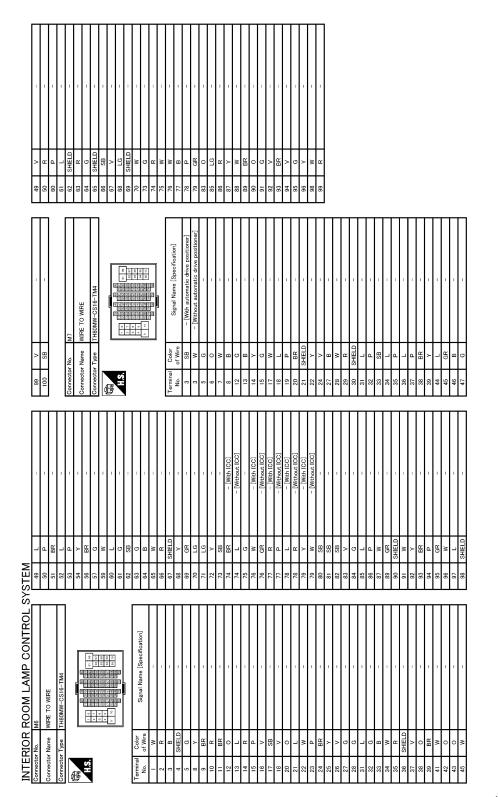
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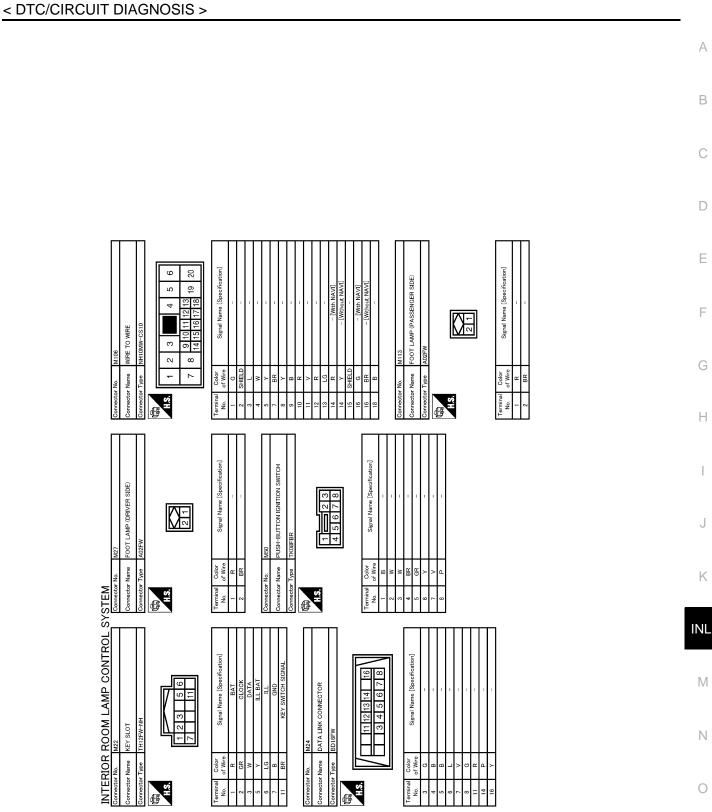
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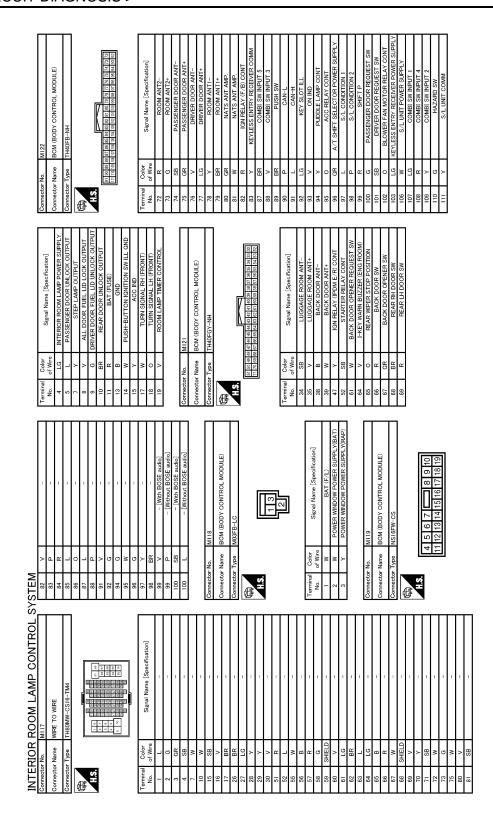
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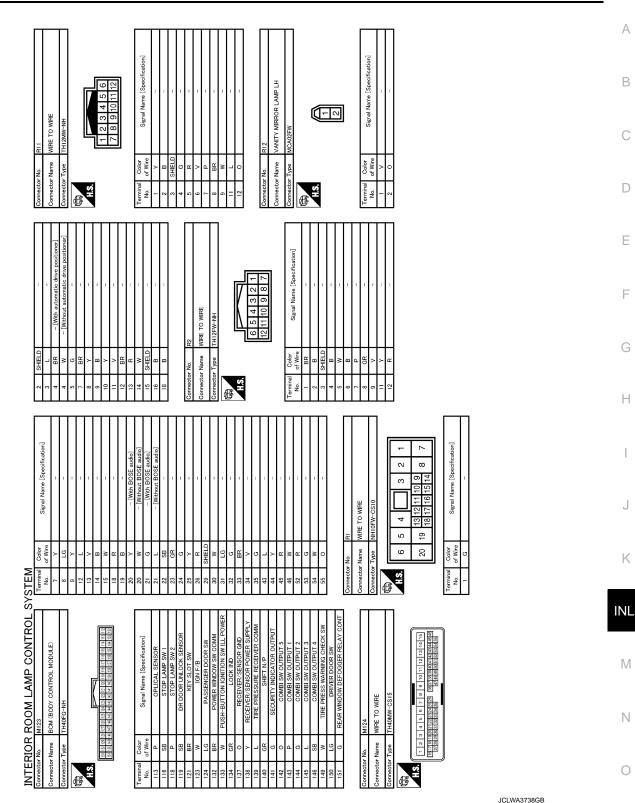
INTERIOR ROOM LAMP CONTROL SYSTEM

JCLWA3736GB

INTERIOR ROOM LAMP CONTROL SYSTEM



JCLWA3737GB



INTERIOR ROOM LAMP CONTROL SYSTEM

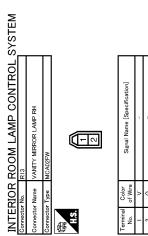
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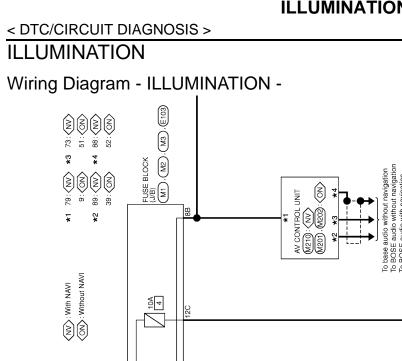
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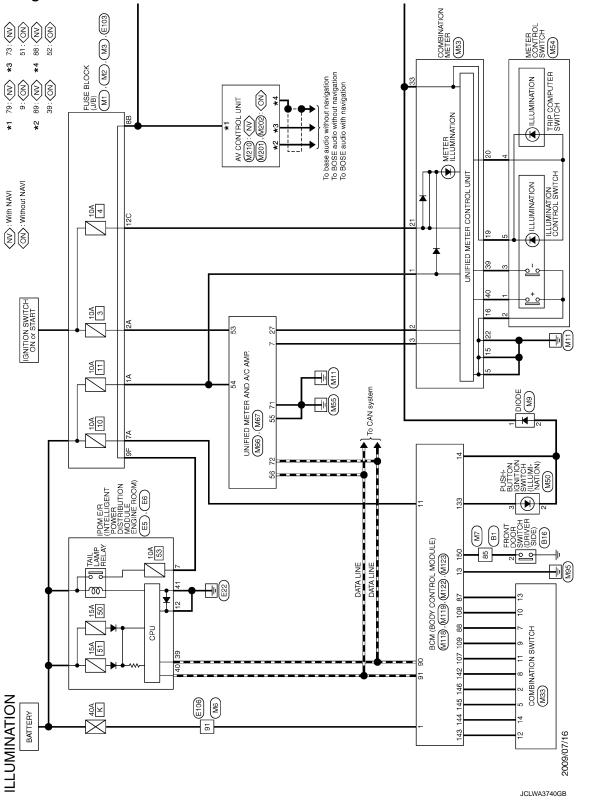
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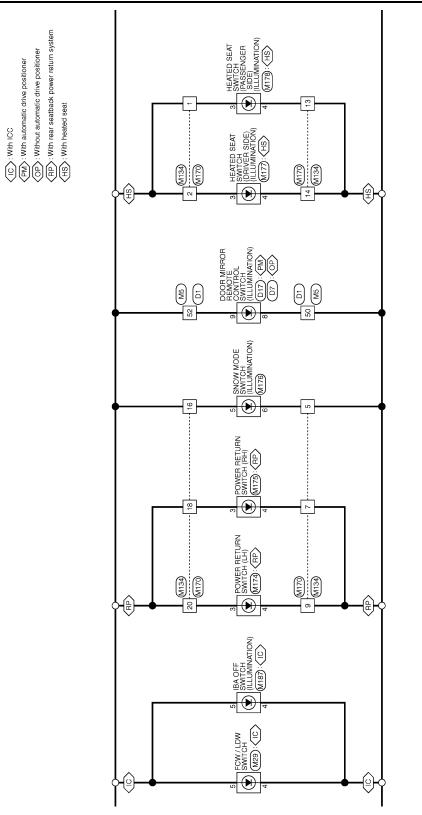
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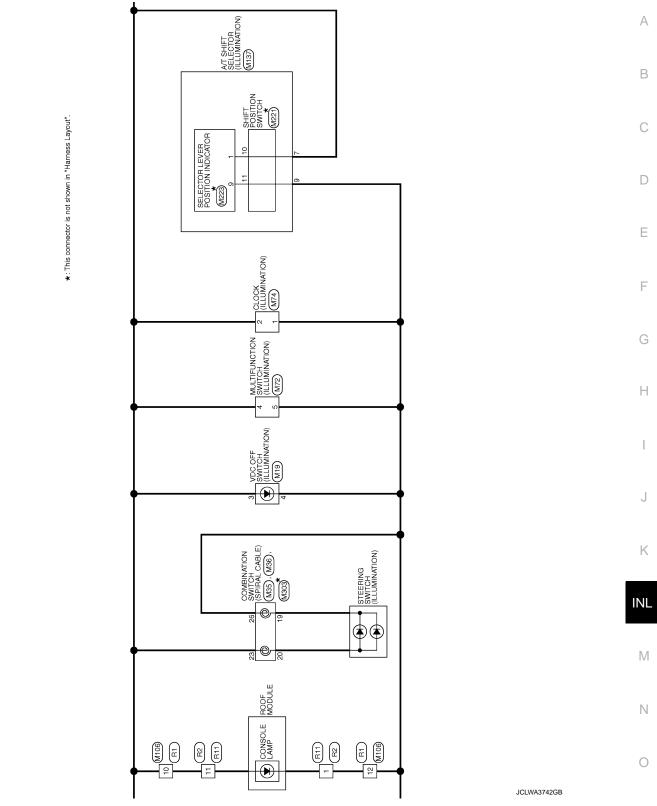
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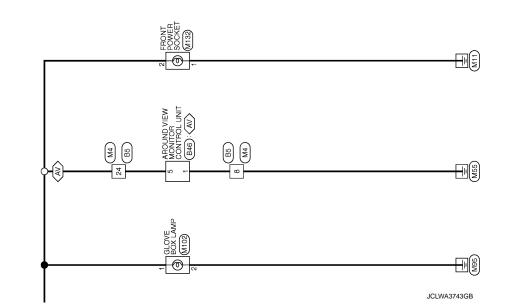
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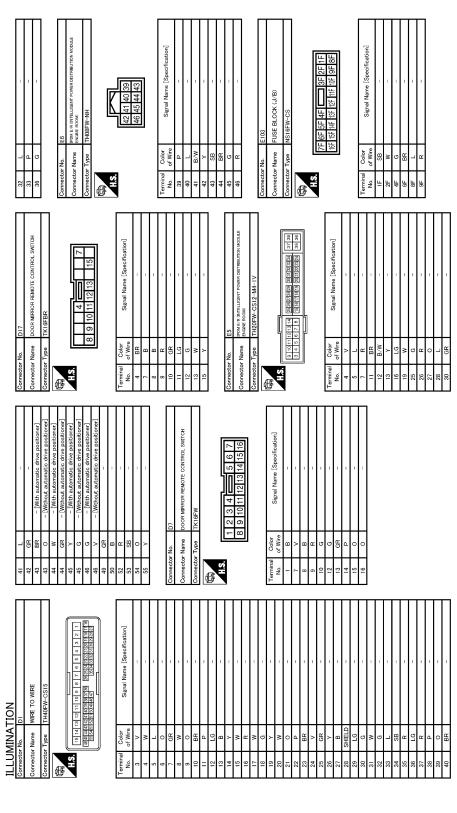
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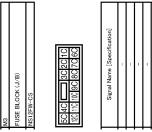
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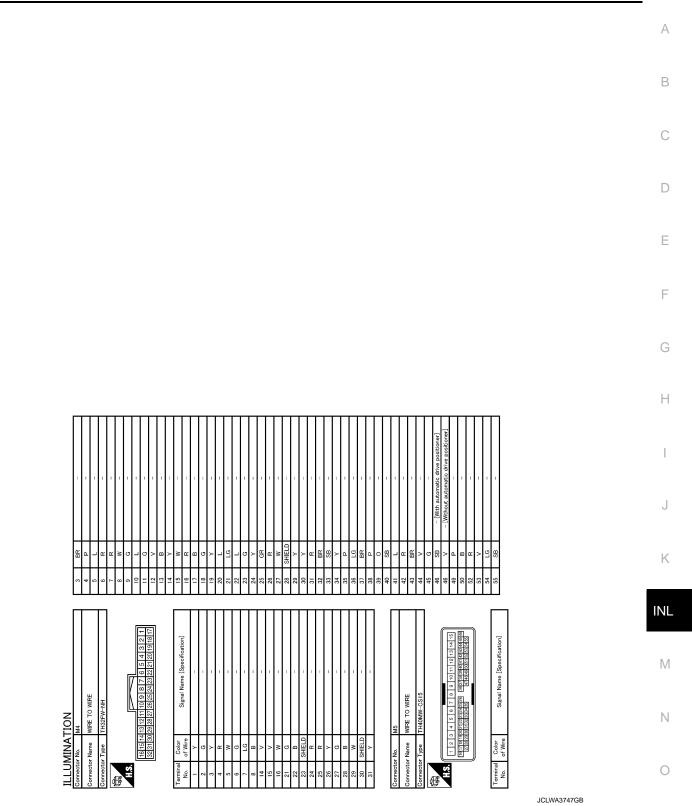


JCLWA3745GB



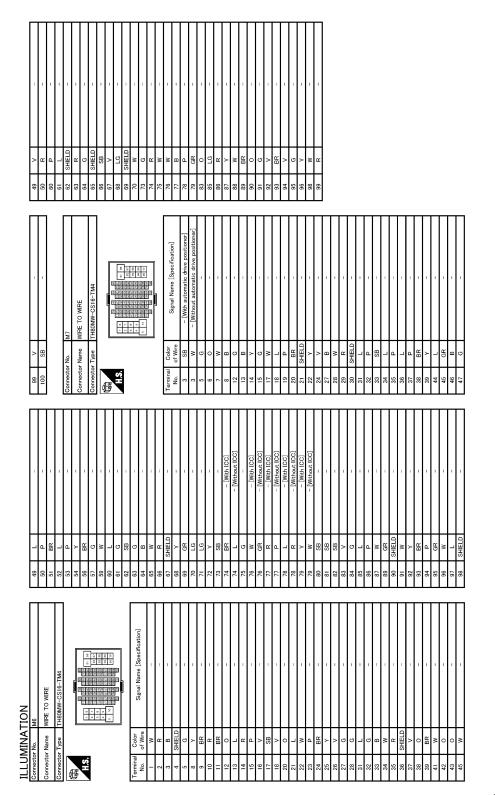
Revision: 2009 August

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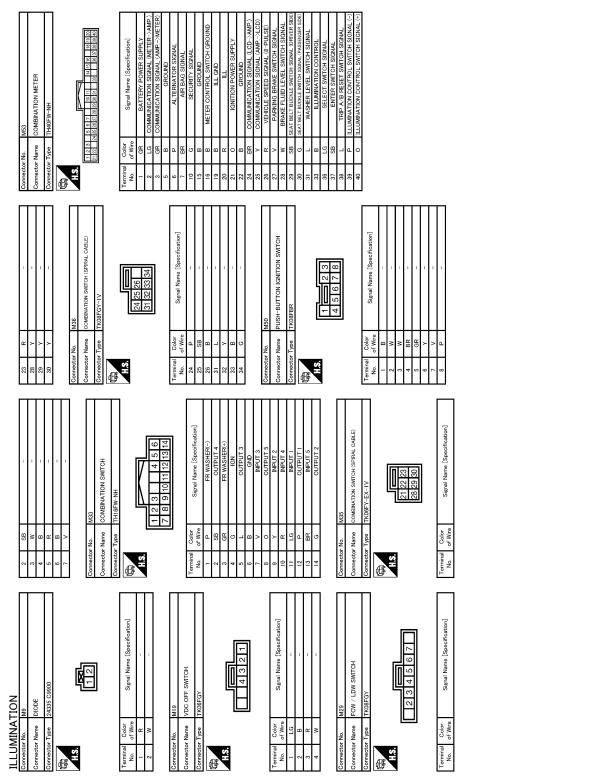
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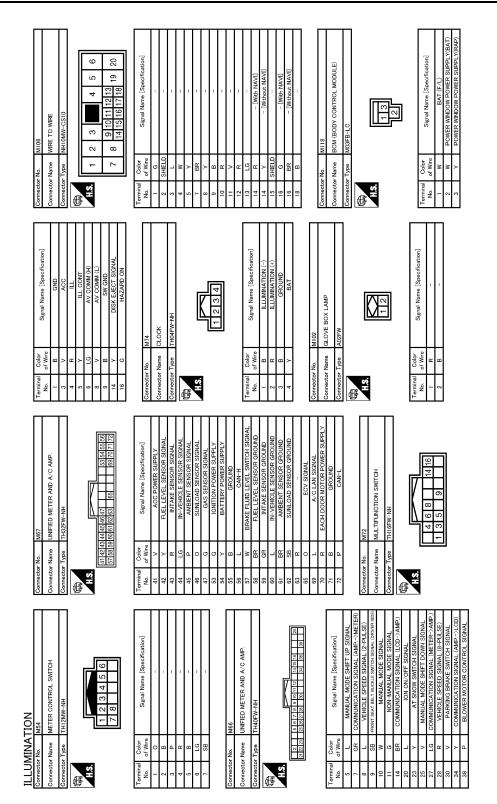
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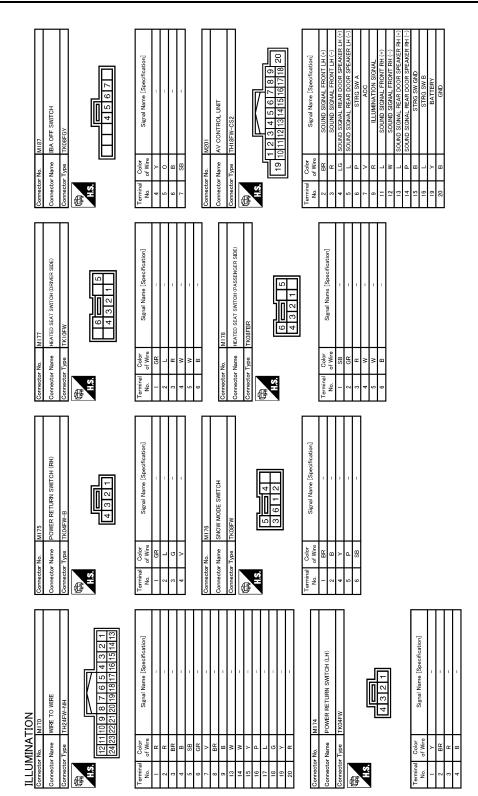
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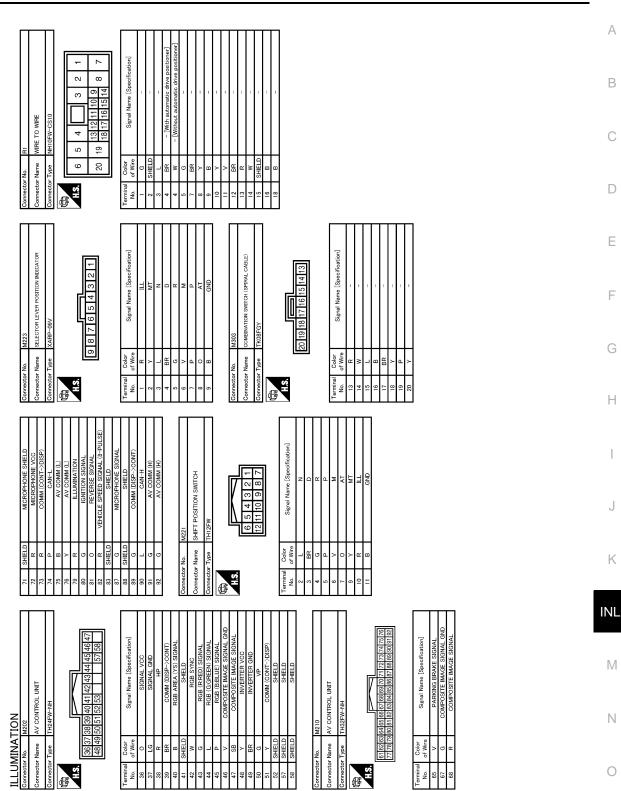
ILLUMINATION

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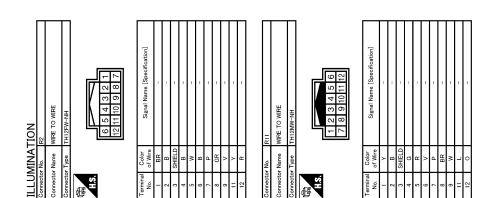
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ILLUMINATION

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Revision: 2009 August



JCLWA3754GB

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
FR WIPER HI	Other than front wiper switch HI	Off	-
	Front wiper switch HI	On	-
	Other than front wiper switch LO	Off	-
FR WIPER LOW	Front wiper switch LO	On	-
	Front washer switch OFF	Off	-
FR WASHER SW	Front washer switch ON	On	-
	Other than front wiper switch INT	Off	-
FR WIPER INT	Front wiper switch INT	On	-
	Front wiper is not in STOP position	Off	_
FR WIPER STOP	Front wiper is in STOP position	On	-
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position	-
	Other than rear wiper switch ON	Off	_
RR WIPER ON	Rear wiper switch ON	On	-
	Other than rear wiper switch INT	Off	-
RR WIPER INT	Rear wiper switch INT	On	-
	Rear washer switch OFF	Off	-
RR WASHER SW	Rear washer switch ON	On	-
	Rear wiper is in STOP position	Off	-
RR WIPER STOP	Rear wiper is not in STOP position	On	-
	Other than turn signal switch RH	Off	-
TURN SIGNAL R	Turn signal switch RH	On	-
	Other than turn signal switch LH	Off	
TURN SIGNAL L	Turn signal switch LH	On	-
	Other than lighting switch 1ST and 2ND	Off	-
TAIL LAMP SW	Lighting switch 1ST or 2ND	On	-
	Other than lighting switch HI	Off	-
HI BEAM SW	Lighting switch HI	On	-
	Other than lighting switch 2ND	Off	-
HEAD LAMP SW 1	Lighting switch 2ND	On	-
	Other than lighting switch 2ND	Off	-
HEAD LAMP SW 2	Lighting switch 2ND	On	-
	Other than lighting switch PASS	Off	-
PASSING SW	Lighting switch PASS	On	-
	Other than lighting switch AUTO	Off	-
AUTO LIGHT SW	Lighting switch AUTO	On	-
	Front fog lamp switch OFF	Off	-
FR FOG SW	Front fog lamp switch ON	On	-

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Monitor Item	Condition	Value/Status
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On
	Rear LH door closed	Off
DOOR SW-RL	Rear LH door opened	On
	Back door closed	Off
DOOR SW-BK	Back door opened	On
	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
	Other than driver door key cylinder LOCK position	Off
KEY CYL LK-SW	Driver door key cylinder LOCK position	On
	Other than driver door key cylinder UNLOCK position	Off
KEY CYL UN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
	Hazard switch is OFF	Off
HAZARD SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
	Back door opener switch OFF	Off
TR/BD OPEN SW	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
	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
	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 simulta- neously	Off
RKE-MODE CHG	LOCK/UNLOCK button of the key is pressed and held simulta- neously	On

Monitor Item	Condition	Value/Status	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V	
OPTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	
REQ SW -DR	Driver door request switch is not pressed	Off	
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	
	Back door request switch is not pressed	Off	
REQ SW -BD/TR	Back door request switch is pressed	On	
	Push-button ignition switch (push switch) is not pressed	Off	
PUSH SW	Push-button ignition switch (push switch) is pressed	On	
	Ignition switch in OFF or ACC position	Off	
GN RLY2 -F/B	Ignition switch in ON position	On	
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off	
	The brake pedal is depressed when No. 7 fuse is blown	Off	
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On	
	The brake pedal is not depressed	Off	
BRAKE SW 2	The brake pedal is depressed	On	
	Selector lever in P position	Off	
DETE/CANCL SW	Selector lever in any position other than P	On	
	Selector lever in any position other than P and N	Off	
SFT PN/N SW	Selector lever in P or N position	On	
	Steering is unlocked	Off	
S/L -LOCK	Steering is locked	On	
	Steering is locked	Off	
S/L -UNLOCK	Steering is unlocked	On	
	Ignition switch in OFF or ACC position	Off	
S/L RELAY-F/B	Ignition switch in ON position	On	
	Driver door is unlocked	Off	
JNLK SEN -DR	Driver door is locked	On	
	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH 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	
DETE SW -IPDM			
	Selector lever in P position	On Off	
SFT PN -IPDM	Selector lever in any position other than P and N	Off	
	Selector lever in P or N position	On	

Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
ENGINE STATE	At engine cranking	Crank
	Engine running	Run
	Steering is unlocked	Off
S/L LOCK-IPDM	Steering is locked	On
	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 condi- tion 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
PRMT ENG STRT	The engine start is prohibited	Reset
PRIVITEINGSTRI	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
	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
	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 >

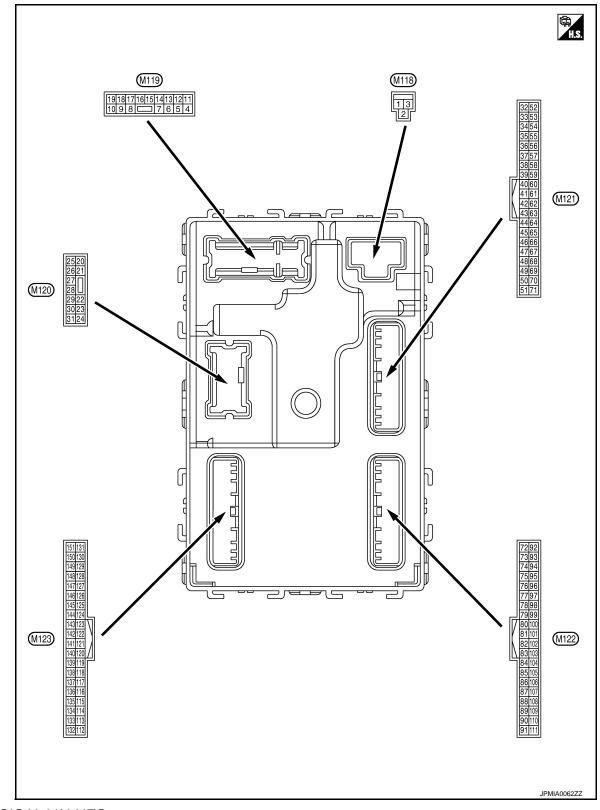
Monitor Item	Condition	Value/Status	
CONFIRM ID2	The key ID that the key slot receives does not accord with the sec- ond key ID registered to BCM.	Yet	
CONFIRMIDZ	The key ID that the key slot receives accords with the second key ID registered to BCM.	Done	
	The key ID that the key slot receives does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

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< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No.	Description				Value
(VVir +	e color) –	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	l	Battery voltage
4					o battery saver is activated. room lamp power supply)	0 V
4 (LG)	Ground	Interior room lamp power supply	Output	ed.	b battery saver is not activat- ior room lamp power supply)	Battery voltage
5	Ground	Passenger door UN-	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
(L)	Giound	LOCK	Output	i assenger uoor	Other than UNLOCK (Actuator is not activated)	0 V
7	Ground	Step lamp	Output	Step lamp	ON	0 V
(Y)	Sibulid		Suput		OFF	Battery voltage
8	Ground	All doors, fuel lid	Output	All doors	LOCK (Actuator is activated)	Battery voltage
(V)	Cround	LOCK	Output		Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid	Output		UNLOCK (Actuator is activated)	Battery voltage
(G)	Ground	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)	Ground	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON	1	0 V
					OFF	0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brighten- ing/dimming level is in the neutral position
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF or ON	JSNIA0010GB Battery voltage
(Y)	Ground		Culput		ACC	0 V

	inal No.	Description				
(Wire	e color)	Signal name	Input/		Condition	Value (Approx.)
+	-	oignaí name	Output			
					Turn signal switch OFF	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	lgnition switch ON	Turn signal switch RH	(V) 15 0 15 15 15 15 15 15 15 15 15 15
					Turn signal switch OFF	0 V
18 (O)	Ground	Turn signal LH (Front)	Output	lgnition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s 1 s FKID0926E 6.5 V
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage
(V)		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 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0
23	Ground	Dool door oppo	Output	Dool door	OPEN (Back door opener actuator is activated)	Battery voltage
(G)	Ground	Back door open	Output	Back door	Other than OPEN (Back door opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s 1 s 1 s 1 s 1 s 1 s 1 s 1 s
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
(G)	Cround		Calput		ON (Operated)	Battery voltage

	inal No.	Description				Value	
(Wire +	e color) –	Signal name	Input/ Output		Condition	(Approx.)	A
34		Luggage room anten-		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C D
(SB)	Ground	na (–)	Output	ŎFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0063GB	E
35	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 0 15 0 15 0 15 15 15 15 15 15 15 15 15 15	G H
(V)	Ground	na (+)	Output	OFF	When Intelligent Key is not in the passenger compart- ment	(V) 15 0 5 0 1 s JMKIA0063GB	J K INL
38	0	Back door antenna (-	0.444	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(B)	Ground		Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	P

	inal No.	Description				Value	
+	e color) –	Signal name	Input/ Output		Condition	(Approx.)	
39	Canad	Back door antenna	Outout	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 0 0 1 s JMKIA0062GB	
(W)	Ground	(+)	quest switch is operated with	Output	door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 0 1 1 1 1 5 0 J MKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC ON	Battery voltage 0 V	
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position When selector lever is not in P or N position	Battery voltage	
					ON (Pressed)	0 V	
61 (W)	Ground	Back door opener re- quest switch	Input	Back door opener request switch	OFF (Not pressed)	(V) 15 0 10 10 ms JPMIA0016GB 1.0 V	
64	Crownd	Intelligent Key warn-	Quitaut	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 posi- tion	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms 10 ms JPMIA0016GB 1.0 V	
					Not in stop position	0 V	

< ECU DIAGNOSIS INFORMATION >

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

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

	inal No.	Description				Value	
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	A
75		Passenger door an-		When the pas- senger door re-	When Intelligent Key is in the antenna detection area	(V) 15 0 5 0 1 s JMKIA0062GB	B C D
(GR)			Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E
76	Ground	nd 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 1 s JMKIA0062GB	G H
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	J K
77	Ground	Driver door antenna	Outout	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(LG)	Ground	(+) Output	switch is operat- ed with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	P	

Terminal No. (Wire color)		Description		Condition		Value
+	-	Signal name	Input/ Output	Contaition		(Approx.)
78	Ground	Room antenna 1 (–)		Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)	Clound	(Instrument panel)	Output		When Intelligent Key is not in the passenger compart- ment	(V) 15 0 10 10 10 10 10 10 10 10 10 10 10 10 1
79	Ground	Room antenna 1 (+)	0.454	t Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(BR)	Ground	(Instrument panel)	Output		When Intelligent Key is not in the passenger compart- ment	(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 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
(13)					ON	Battery voltage

	inal No.	Description				Value	
(Wire +	e color) –	Signal name	Input/ Output		Condition	Value (Approx.)	А
				During waiting		(V) 15 10 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1	B
83 (Y)	Ground	Remote keyless entry receiver communica- tion	Input/ Output	When operating e	ither button on the key	JMKIA0064GB	D E F
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 0 2 ms JPMIA0041GB 1.4 V	G H
87	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms 1.3 V	J K INL
(BR)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0039GB 1.3 V	M
					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 0 2 ms JPMIA0040GB 1.3 V	P

Terminal No.		Description				Value	
	e color)	Signal name	Input/		Condition	(Approx.)	
+	_	5	Output				
	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0041GB 1.4 V	
						Lighting switch HI (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0036GB 1.3 V
88 (V)						Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 0 2 ms JPMIA0037GB 1.3 V
						Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 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 0 2 ms JPMIA0040GB 1.3 V	
89		Push-hutton ignition		Push-button igni-	Pressed	0 V	
69 (BR)	Ground	Push-button ignition 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	_		_	

Terminal No.		Description					
(Wire +	e color) _	Signal name	Input/ Output		Condition	Value (Approx.)	ŀ
			- Calpai		OFF	Battery voltage	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 50 1 s JPMIA0015GB 6.5 V	E
					ON	0 V	E
93	Cround		Output	Instition outlinh	OFF or ACC	Battery voltage	L
(V)	Ground	ON indicator lamp	Output	Ignition switch	ON	0 V	
94	0	Duddle base	<u>.</u>	Developing	OFF	Battery voltage	I
(Y)	Ground	Puddle lamp control	Output	Puddle lamp	ON	0 V	
95	0		0	Inviting a link	OFF	0 V	
(O)	Ground	ACC relay control	Output	Ignition switch	ACC or ON	Battery voltage	(
96 (GR)	Ground	A/T shift selector (De- tention switch) power supply	Output	_		Battery voltage	I
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V	
(L)	Ground	tion No. 1	Input	Sleening lock	UNLOCK status	Battery voltage	
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage	
(P)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V	
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V	,
(R)	Ground	tion switch	Input	Selector lever	Any position other than P	Battery voltage	
					ON (Pressed)	0 V	
100 (G)	Ground	Passenger door re- quest switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 50 10 ms JPMIA0016GB 1.0 V	IN
					ON (Pressed)	0 V	ľ
101 (SB)	Ground	Driver door request switch	Input	Driver door re- quest switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	(
100		Plower for materia			OFF or ACC	0 V	
102 (O)	Ground	Blower fan motor re- lay control	Output	Ignition switch	OFFOLACC	Battery voltage	
(0)						Dallery Vollage	

	inal No.	Description				Value
(VVir +	e color) –	Signal name	Input/ Output		Condition	(Approx.)
103 (LG)	Ground	Remote keyless entry receiver power sup- ply	Output	Ignition switch OF	F	Battery voltage
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC ON	Battery voltage 0 V
			Input	Input Combination switch (Wiper intermit- tent dial 4)	All switches OFF	(V) 15 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground				Turn signal switch RH	(V) 15 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 10 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 0 2 ms JPMIA0039GB 1.3 V

< ECU DIAGNOSIS INFORMATION >

(Wire color) Signal name Input Output Condition Value (Approx.) A + - Signal name Output A	inal No.	Description			Value	Δ
108 (R) Ground Combination switch INPUT 4 Input Combination switch Combination (Wiper intermittent dial 4) Input (Wiper intermittent dial 6) Input	 -	Signal name		Condition		A
108 (R) Ground Combination switch INPUT 4 Input Combination switch Lighting switch AUTO (Wiper intermittent dial 4) Imput for the switch automation intermittent dial 5 Imput for the switch automation intermittent dial					2 ms	С
108 (R) Ground Combination switch INPUT 4 Input Combination switch Lighting switch 1ST (Wiper intermittent dial 4) Imput H 108 (R) Ground Combination switch INPUT 4 Input Combination switch Lighting switch 1ST (Wiper intermittent dial 4) Imput H 108 (R) Ground Combination INPUT 4 Input Combination switch Lighting switch 1ST (Wiper intermittent dial 4) Imput H 108 (R) Rear wiper switch INT (Wiper intermittent dial 4) Imput Imput Imput Imput 108 (R) Any of the conditions below with all switches OFF • Wiper intermittent dial 5 Imput Imput Imput Imput 108 (R) Imput Imput Imput Imput Imput Imput Imput 108 (R) Imput					10 5 0 2 ms JPMIA0038GB	F
Rear wiper switch INT (Wiper intermittent dial 4) Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below with all switches OFF Image: Comparison of the conditions below of the conditions below with all switches OFF Image: Comparison of the conditions below of the conditions below of the conditions below with all switches OFF Image: Comparison of the conditions below of the condition below of the conditions below of the cond	Ground		Input		10 0 2 ms JPMIA0036GB	
Wiper intermittent dial 5 Wiper intermittent dial 6 JPMIA0039GB					15 10 5 0 2 ms JPMIA0040GB	K
				with all switches OFFWiper intermittent dial 1Wiper intermittent dial 5		

Ρ

	inal No.	Description				Value
	e color)	Signal name	Input/		Condition	(Approx.)
+	_		Output		All switches OFF	(V) 15 0 2 ms JPMIADO41GB 1.4 V
					Lighting switch PASS	(V) 15 10 5 0 <i>2</i> ms JPMIA0037GB 1.3 V
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch INT	(V) 15 0 2 ms JPMIA0038GB 1.3 V
					Front wiper switch HI	(V) 15 0 2 ms JPMIA0040GB 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 0 10 10 ms JPMIA0012GB 1.1 V

< ECU DIAGNOSIS INFORMATION >

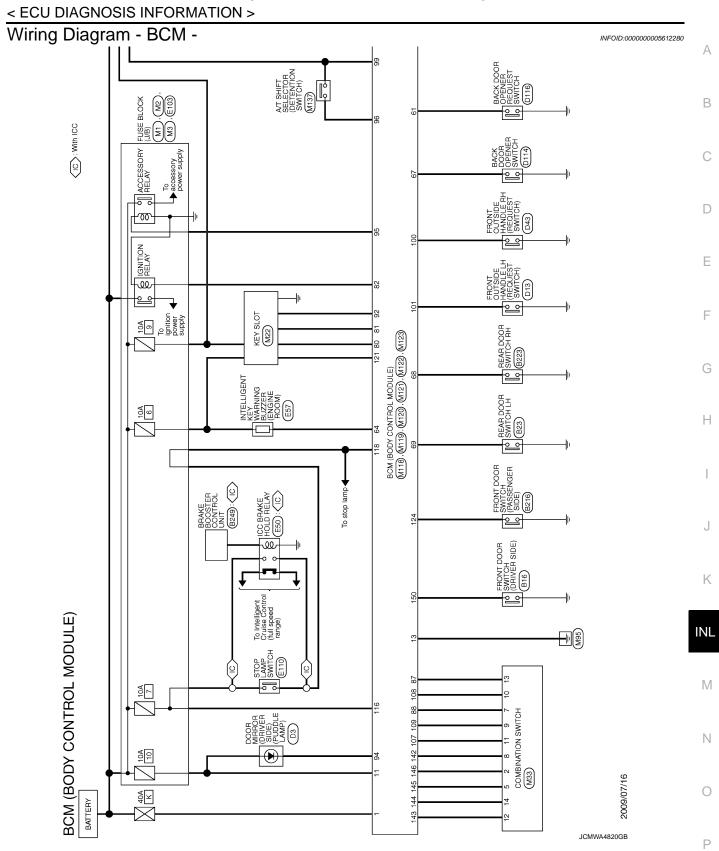
	inal No.	Description				Value				
(VVire +	e color) –	Signal name	Input/ Output		Condition	(Approx.)				
					LOCK status	Battery voltage				
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	For 15 seconds after UN-	50 ms JMKIA0066GB				
					15 seconds or later after UNLOCK	0 V				
113	Ground	Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V				
(P)	Ground		mput	ÔN	When dark outside of the vehicle	Close to 0 V				
116 (SB)	Ground	Stop lamp switch 1	Input	_		Battery voltage				
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V				
118	Ground	(Without ICC)	– Input		ON (Brake pedal is de- pressed)	Battery voltage				
(P)		Stop lamp switch 2		pressed) and ICC	OFF (Brake pedal is not de- brake hold relay OFF	0 V				
		(With ICC)			ON (Brake pedal is de- rake hold relay ON	Battery voltage				
119 (SB)	Ground	Front door lock as- sembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 10 10 10 11 12 JPMIA0012GB 1.1 V				
					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)			input	When the key is n	ot inserted into key slot	0 V				
123	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V				
(W)				-	ON	Battery voltage				

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	inal No.	Description				Value
+	e color) -	Signal name	Input/ Output		Condition	(Approx.)
124 (LG)			Input	Passenger door switch	OFF (Door close) ON (Door open)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V 0 V
132 (BR)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V
				Ignition switch OFF	F or ACC	Battery voltage
					ON (Tail lamps OFF)	9.5 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button igni- tion switch illumi- nation	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.
					OFF	0 V
134	Ground	LOCK indicator lamp	Output	LOCK indicator	OFF	Battery voltage
(GR)		-		lamp	ON	0 V
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(Y)		power supply		-	ACC or ON	5.0 V

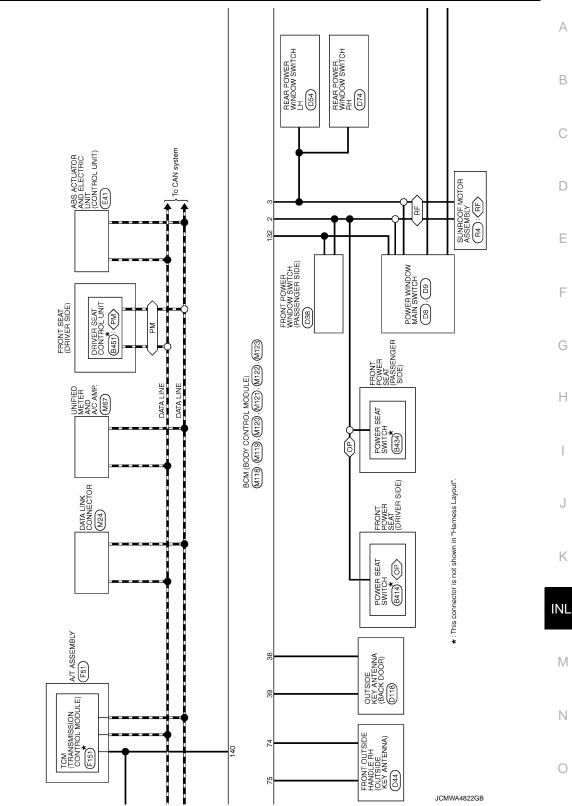
	inal No.	Description				Value	Λ
(Wire +	e color) –	Signal name			Condition	(Approx.)	A
139		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s OCC3881D	B C D
(L)	Ground	er communication	Output	ŎN	When receiving the signal from the transmitter	(V) 6 4 2 0 • • 0.2s OCC3880D	F
140	Crownd	Selector lever P/N	lanut	Coloctor lover	P or N position	Battery voltage	G
(GR)	Ground	position	Input	Selector lever	Except P and N positions	0 V	
					ON	0 V	Н
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 0 5 0 1 1 5 JPMIA0014GB 11.3 V	J
					OFF	Battery voltage	K
					All switches OFF	0 V	
				Combination	Lighting switch 1ST Lighting switch HI	(V) 15	INI
142 (O)	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 	M
						JPMIA0031GB 10.7 V	N
					All switches OFF (Wiper intermittent dial 4)	0 V	
					Front wiper switch HI (Wiper intermittent dial 4)		0
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10	Ρ
(P)	Ground	OUTPUT 1	Culput	switch	Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	10 0 2 ms 10.7 V	

	inal No.	Description				
(Wire +	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
+	_		Output		All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
144		Combination switch		Combination	Rear wiper switch ON (Wiper intermittent dial 4)	
(G)	Ground	OUTPUT 2	Output	switch	Rear washer switch ON (Wiper intermittent dial 4)	
					 Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6 	2 ms JPMIA0033GB 10.7 V
					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15 10
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 0 2 ms JPMIA0034GB 10.7 V
					All switches OFF	0 V
		Combination switch			Front fog lamp switch ON	
					Lighting switch 2ND	(V)
146	Oneveral		Outrast	Combination switch	Lighting switch PASS	
(SB)	Ground	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB 10.7 V
149 (W)	Ground	Tire pressure warn- ing check switch	Input	Ignition switch ON		(V) 15 10 10 ms JPMIA0011GB 11.8 V
150 (LG)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 0 10 10 10 10 10 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Croand	ger relay control	Calput	fogger	Not activated	Battery voltage



< ECU DIAGNOSIS INFORMATION > IPDM E/R (INTELLGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E5) (E6) FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) (D14) 22 1 INSIDE KEY ANTENNA (LUGGAGE ROOM) (B228) 52 34 RELAY RELAY 8 5 35 ╢ <u>_</u> ¥ СРU RECERING LOCK RELAY 72 INSIDE KEY ANTENNA (CONSOLE) M146 73 10A • IGNITION RELAY INSIDE KEY ANTENNA (INSTRUMENT CENTER) (M131) 20 BCM (BODY CONTROL MODULE) (M118).(M119).(M120).(M122).(M123) 10A æ 113 SENSOR M94 STEERING LOCK UNIT (M40) 88 6 106 111 -||+ 139 TIRE PRESSURE RECEIVER (M101) 138 စ္တ LOCK REMOTE KEYLESS ENTRY RECEIVER (M104) PUSH-BUTTON IGNITION SWITCH (M50) 103 ON ACC 34 £ S 137 REAR WIPER MOTOR D115 93 ILLUMI-4 STOP 133 ŝ MOVE COMBINATION METER M53 26 4 JCMWA4821GB

BCM (BODY CONTROL MODULE)



< ECU DIAGNOSIS INFORMATION >

 RF
 With sunroof

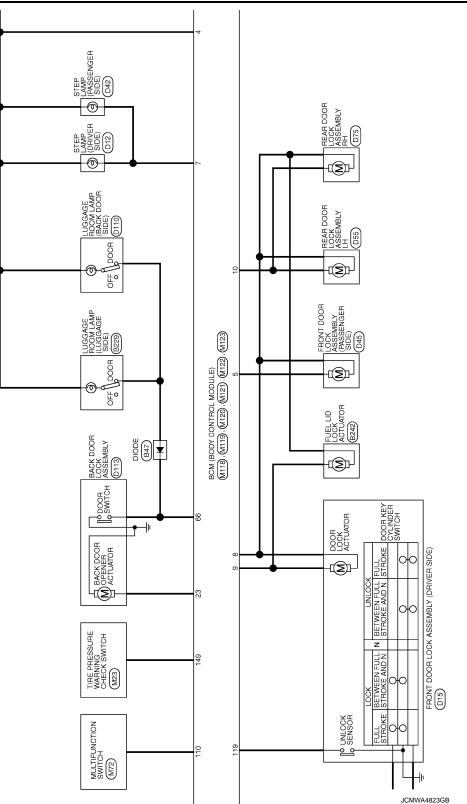
 PMA
 With automatic drive positioner

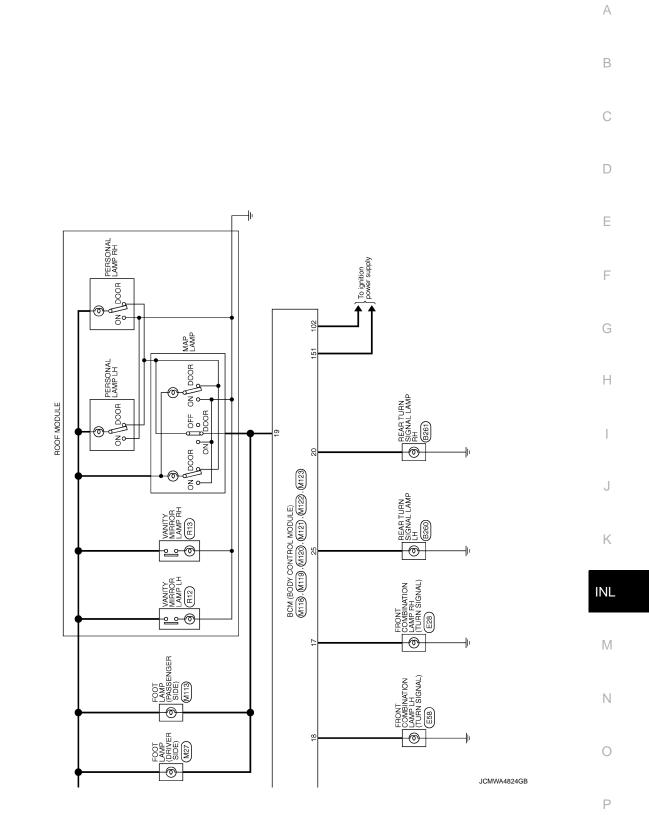
 OP
 Without automatic drive positioner

Revision: 2009 August

2010 EX35

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NATS ANT AMP.	IGN RELAY (F/B) CONT	KEYLESS ENTRY RECEIVER COMM	COMBI SW INPUT 5	COMBI SW INPUT 3	MS HSNH	CAN-L	CAN-H	KEY SLOT ILL	ON IND	PUDDLE LAMP CONT	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	S/L CONDITION 2	SHIFT P	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MUTOR RELAY CONT	KEYLESS EN LY RECEIVER POWER SUPPLY			COMBLOW INPUT 4																						
>			æ		H			P		~	0	GR		_	_	+	+	+	_	+	2	+		╀	-																			
81	82	83	87	88	68	06	6	92	693	94	95	96	97	86	66	0	5	201	50	901 101			601																					
M121			TH40FGY-NH					38 37 36 35 34	7 86 85 84 83 82 81 80 59 58 57 56 55 54 53 52			Signal Name [Snecification]		LUGGAGE ROOM ANT-	LUGGAGE ROOM ANT+	BACK DOOR ANT-	BACK DOOR ANI +	GIN RELAY (IPUM E/R) CONT	STARLER RELAT CONT	BACK DOOR OPENER REQUEST SW	PLAET WARN BUZZEK (ENG ROUM)			DEAD DUOR OFENER SW		KEAK LH DOOK SW	M122	771	BCM (BODY CONTROL MODULE)	TH40FB-NH			2) 06 164 1M 109 103 20 20 20 20 20 20 20 20 20 20 20 20 20	Signal Name [Specification]		ROOM ANT2-	ROOM ANT2+	PASSENGER DOOR ANI-	PASSENGER DOOR ANI +		DOM MIT-		RUOM ANTIT	NAIS ANI AMP.
Connector No. N		Connector Name B	Connector Type T	1	低			51 50 49 48 4	71 70 69 68 6			la I	No. of Wire	-	+	+	89 89	+	-	N :	╀	+	н С	╀	+	H 60	Connector No	Т	Connector Name B	Connector Type T	ſ	H.S.	9 90 90 90 111 1 90 90 91 111	la	ţ	-	+	+	6 19	9/	╀	╀	HG 00	20 02
Connector No. M119		Connector Name BCM (BUDY CUNIKUL MUDULE)	Connector Type NS16FW-CS	1				10 10 11 15 15 17	10 14 10 10 1/ 10			la	No. of Wire Opeonication	4 LG INTERIOR ROOM LAMP POWER SUPPLY	5 L PASSENGER DOOR UNLOCK OUTPUT	> :	> (BK REAK DU	+	NOTTING LIGHT	\$ >		≥ ⊂	> >		Connector No M120	Т	Connector Name BCM (BODY CONTROL MODULE)	Connector Type NS12FW-CS	晤	HS.	20 21	lar	of Wire	>	ш с (+	20 G REAK WIPER OUTPUT					
Connector No. M33		Connector Name CUMBINATION SWITCH	Connector Type TH16FW-NH	1				1 2 3 4 5 6	7 8 9 10 11 12 13 14			Terminal Color Signal Name [Snerification]		۳.	ß	GR FR W	. e	+	a B GNU	> <		- c				13 BK INPUT 5		Connector No. M118			Connector Type M03FB-LC	E	#2 []]	– F	ler	e	> 3	2 W POWER WINDOW POWER SUPPLY(BAT)	<u>`</u>					

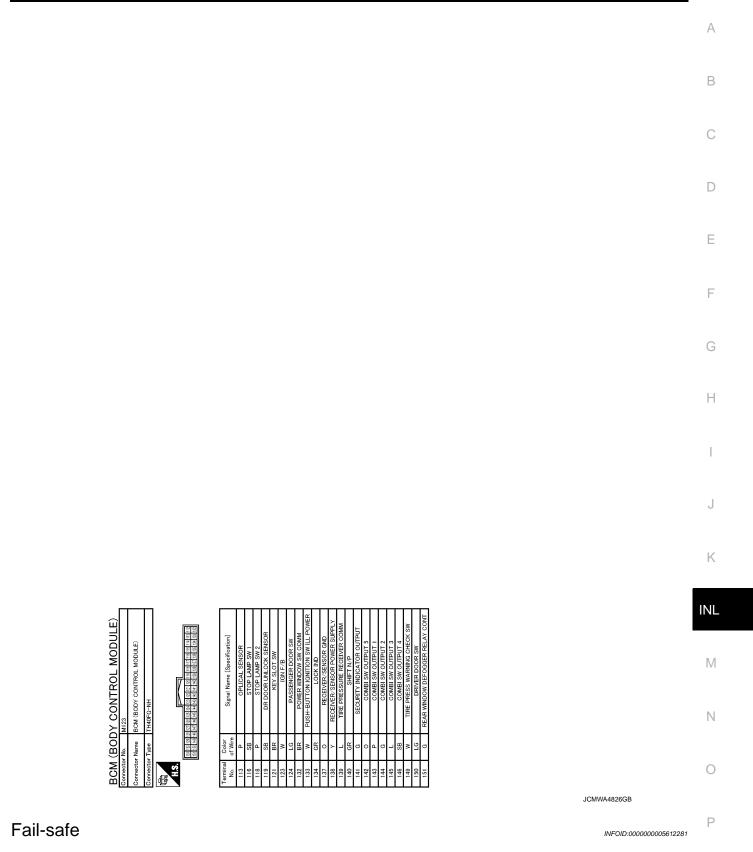
BCM (BODY CONTROL MODULE) < ECU DIAGNOSIS INFORMATION >

Revision: 2009 August

2010 EX35

JCMWA4825GB

< ECU DIAGNOSIS INFORMATION >



FAIL-SAFE CONTROL BY DTC

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

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 actua- tor and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status be- comes consistentStarter control relay signalStarter 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 >

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 crankingInhibit 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 fulfilledPower position changes to ACCReceives 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 be- comes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control in- side BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	Inhibit engine crankingInhibit 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.
- 2. Turn rear wiper switch OFF.
- 3. 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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< ECU DIAGNOSIS INFORMATION >

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 B2555: STOP LAMP B2555: STOP LAMP B2555: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP SW B2605: S/L RELAY B2607: S/L RELAY B2608: S/L RELAY B2609: S/L RELAY B2609: S/L STATUS B2609: S/L STATUS B2609: S/L STATUS B2609: STERTING LOCK UNIT B2606: STERTING LOCK UNIT B2607: SLERING LOCK UNIT B2608: STERTING LOCK UNIT B2609: STERTING LOCK UNIT B2609: STERTING LOCK UNIT B2607: ENG STATE SIG LOST B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2616: IGN RELAY CIRC B2616: SCM RELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: S/L STATUS B2619: S/L STATUS B2611: STARTER RELAY CIRC B2611: SLOMER RELAY CIRC B2612: S/L STATUS B2613: BCM B2614: ACC RELAY CIRC B2615: BLOWER RELAY CIRC B2615: BLOWER RELAY CIRC B2616: SCM SELAY CIRC B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2615: BLOWER RELAY CIRC B2616: SL STATUS B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2614: PUSH-BTN IGN SW B2614: PUSH-BTN IGN SW B2615: BLOWER RELAY CIRC B2614: PUSH-BTN IGN SW B2615: BLOWER RELAY CIRC B2616: SL STATUS B2617: STARTER RELAY CIRC B2618: BCM B2619: BCM B2619: BCM B2619: BCM B2619: BCM B2619: BCM B2619: SL STATUS B261000000 B210000000000 B2
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

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< ECU DIAGNOSIS INFORMATION >

The details of time display are as follows.

CRNT: A malfunction is detected now.

• PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-16, "COM-MON ITEM : CONSULT-III Function (BCM - COMMON ITEM)"</u>.

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	С
No DTC is detected. further testing may be required.	_	_	_	_	_	- D
U1000: CAN COMM CIRCUIT	_	_	_	_	BCS-37	E
U1010: CONTROL UNIT (CAN)	—	_	_	—	BCS-38	-
U0415: VEHICLE SPEED SIG	_	_	_	_	<u>BCS-39</u>	F
B2013: ID DISCORD BCM-S/L	×	×	_		<u>SEC-48</u>	
B2014: CHAIN OF S/L-BCM	×	×	_	_	<u>SEC-49</u>	-
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-41	G
B2191: DIFFERENCE OF KEY	×			_	<u>SEC-44</u>	-
B2192: ID DISCORD BCM-ECM	×				<u>SEC-45</u>	-
B2193: CHAIN OF BCM-ECM	×			_	<u>SEC-46</u>	- H
B2195: ANTI SCANNING	×		_	_	<u>SEC-47</u>	-
B2553: IGNITION RELAY	_	×		_	PCS-49	-
B2555: STOP LAMP	_	×		_	SEC-52	_
B2556: PUSH-BTN IGN SW	_	×	×	_	<u>SEC-54</u>	_
B2557: VEHICLE SPEED	×	×	×	_	<u>SEC-56</u>	J
B2560: STARTER CONT RELAY	×	×	×	_	<u>SEC-57</u>	-
B2562: LOW VOLTAGE	_	×		_	BCS-40	K
B2601: SHIFT POSITION	×	×	×	_	<u>SEC-58</u>	_
B2602: SHIFT POSITION	×	×	×	_	SEC-61	
B2603: SHIFT POSI STATUS	×	×	×	_	<u>SEC-63</u>	INL
B2604: PNP SW	×	×	×	_	<u>SEC-66</u>	-
B2605: PNP SW	×	×	×	_	<u>SEC-68</u>	M
B2606: S/L RELAY	×	×	×	_	<u>SEC-70</u>	111
B2607: S/L RELAY	×	×	×	_	<u>SEC-71</u>	_
B2608: STARTER RELAY	×	×	×	_	<u>SEC-73</u>	N
B2609: S/L STATUS	×	×	×	_	<u>SEC-75</u>	-
B260A: IGNITION RELAY	×	×	×	_	PCS-51	_
B260B: STEERING LOCK UNIT	_	×	×	_	<u>SEC-79</u>	0
B260C: STEERING LOCK UNIT	_	×	×	_	<u>SEC-80</u>	-
B260D: STEERING LOCK UNIT	_	×	×	_	SEC-81	P
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-82	-
B2612: S/L STATUS	×	×	×		<u>SEC-86</u>	-
B2614: ACC RELAY CIRC	_	×	×	_	PCS-53	-
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-56	-
B2616: IGN RELAY CIRC		×	×	_	PCS-59	-

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CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condi- tion	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2617: STARTER RELAY CIRC	×	×	×	—	<u>SEC-90</u>
B2618: BCM	×	×	×		PCS-62
B2619: BCM	×	×	×	_	<u>SEC-92</u>
B261A: PUSH-BTN IGN SW	_	×	×	—	<u>SEC-93</u>
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	×	×	×	—	<u>SEC-83</u>
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				×	
C1705: LOW PRESSURE FR	_	—		×	
C1706: LOW PRESSURE RR	_	—	_	×	<u>WT-25</u>
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	_	—		×	
C1709: [NO DATA] FR	_	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	<u>WT-27</u>
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL		—	—	×	
C1717: [PRESSDATA ERR] FR	—	—	—	×	WT-30
C1718: [PRESSDATA ERR] RR	—	—	—	×	<u>vv1-30</u>
C1719: [PRESSDATA ERR] RL		—		×	
C1729: VHCL SPEED SIG ERR		—		×	<u>WT-32</u>
C1734: CONTROL UNIT		—	—	×	<u>WT-34</u>

< ECU DIAGNOSIS INFORMATION >

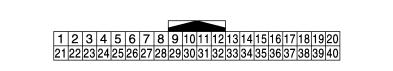
COMBINATION METER

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Refer to MWI-86, "Reference Value".

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value	G
+	-	Signal name	Input/ Output	Contantion		(Approx.)	Н
1 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
2 (LG)	Ground	Communication signal (METER→ AMP.)	Output	Ignition switch ON	_	(V) 6 4 0 2 0 2 0 4 2 0 4 2 0 4 2 0 4 5 5 5 5 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5	J
3 (GR)	Ground	Communication signal (AMP.→ METER)	Input	Ignition switch ON		(V) 6 2 0 2 2 0 2 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	INL M
5 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	Ν
6				Ignition	Charge warning lamp ON	0 V	0
(P)	Ground	Alternator signal	Input	switch ON	Charge warning lamp OFF	Battery voltage	0
7				Ignition	Air bag warning lamp ON	4 V	
(BR)	Ground	Air bag signal	Input	switch ON	Air bag warning lamp OFF	0 V	Ρ
10				Ignition	Security warning lamp ON	0 V	
(G) Groui	Ground	round Security signal	Input	switch OFF	Security warning lamp OFF	12 V	
15 (B)	Ground	Ground	—	Ignition switch ON	_	0 V	

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Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
16 (B)	Ground	Meter control switch ground		Ignition switch ON	_	0 V	
21 (O)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage	
22 (B)	Ground	Ground	_	Ignition switch ON	_	0 V	
24 (BR)	Ground	Communication signal (LCD→ AMP.)	Output	Ignition switch ON		(V) 15 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	
25 (Y)	Ground	Communication signal (AMP. \rightarrow LCD)	Input	Ignition switch ON		(V) 6 2 0 2 2 2 2 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
26 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	Speedometer operated [When vehicle speed is ap- prox. 40 km/h (25 MPH)]	NOTE: The maximum voltage varies depending on the specification (destination unit).	
					Parking brake is applied	0 V	
27 (V)	Ground	Parking brake switch signal	Input	Ignition It switch ON	Parking brake is released	(V) 8 4 0 10 ms JSNIA0007GB	
28	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal.	5 V	
(W)					The brake fluid level is low- er than the low level	0 V	
29	Ground	Ground Seat belt buckle switch sig- nal (driver side)	Input	Ignition switch ON	When driver seat belt is fas- tened	12 V	
(SB)					When driver seat belt is un- fastened	0 V	

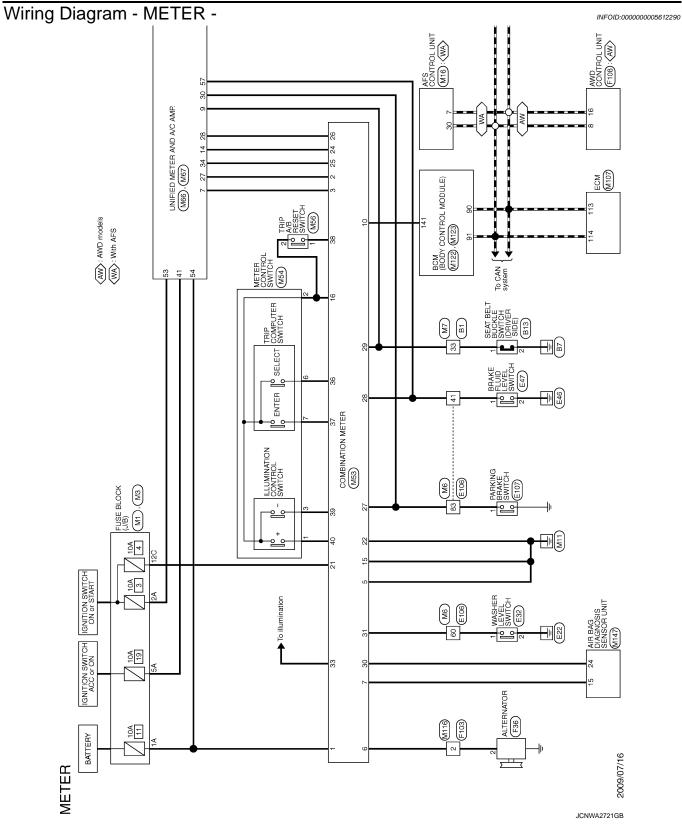
< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition		Value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
30	Ground	Seat belt buckle switch sig-	Input	Ignition switch	When getting in the passenger seatWhen passenger seat belt is fastened	12 V	
(G)	Clound	nal (passenger side)	mput	ON	When getting in the passenger seatWhen passenger seat belt is unfastened	0 V	
31	Crowned	Macharlayal awitch airpal	Input	Ignition switch ON	Washer level switch ON	0 V	
(L) Groun	Ground	d Washer level switch signal			Washer level switch OFF	5 V	
33 (B)	Ground	Illumination control signal	Output	Ignition switch ON	Lighting switch ON, then operate the illumination control switch.	NOTE: When brightness level is midway (V) 10 0 2 ms JSNIA0010GB	
36	16	Select switch signal	Input	Ignition switch ON	When b is pressed	0 V	
(LG)	(B)				Other than the above	5 V	
37 16 (SB) (B)		Enter switch signal	Input	Ignition switch ON	When 🖵 is pressed	0 V	
	(B)				Other than the above	5 V	
38 16 (L) (B)	16 (B)		reset switch signal Input	Ignition switch	When trip A/B reset switch is pressed	0 V	
	(B)			ON	Other than the above	5 V	
	16 (B)	16 Illumination control switch (B) signal (–)	Input	Ignition switch ON	When 🕅 switch is pressed	0 V	
	(2)				Other than the above	5 V	
40 (O)	16 (B)		Input	Ignition switch ON	When 💏 + switch is pressed	0 V	
					Other than the above	5 V	

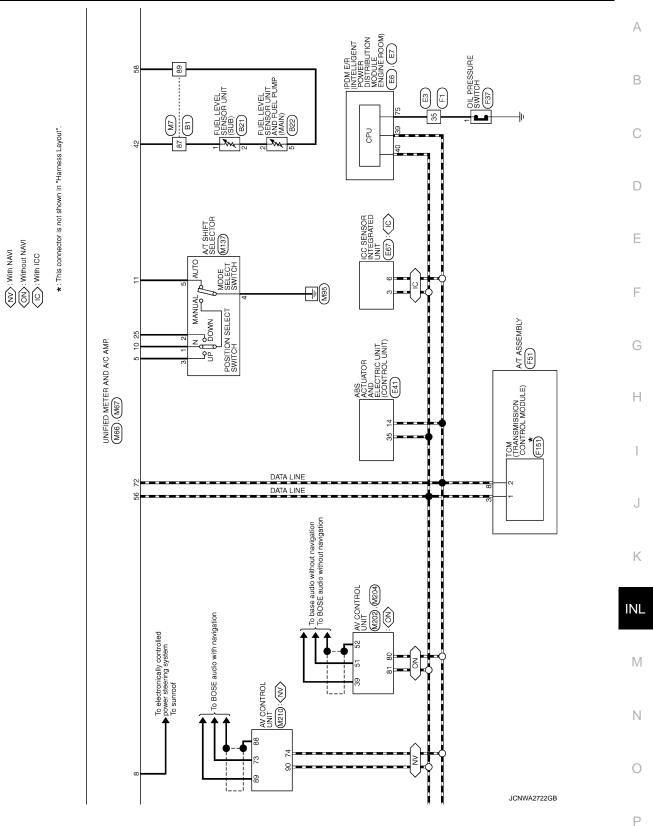
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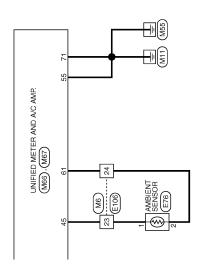


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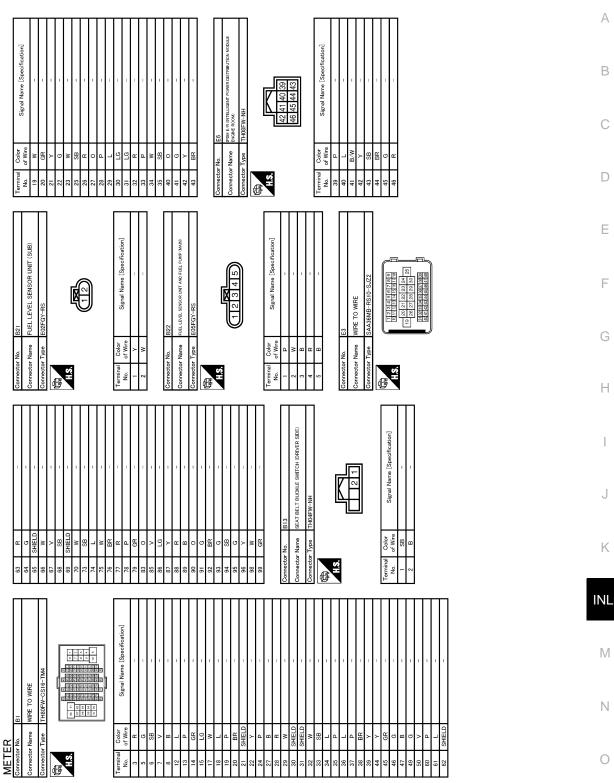
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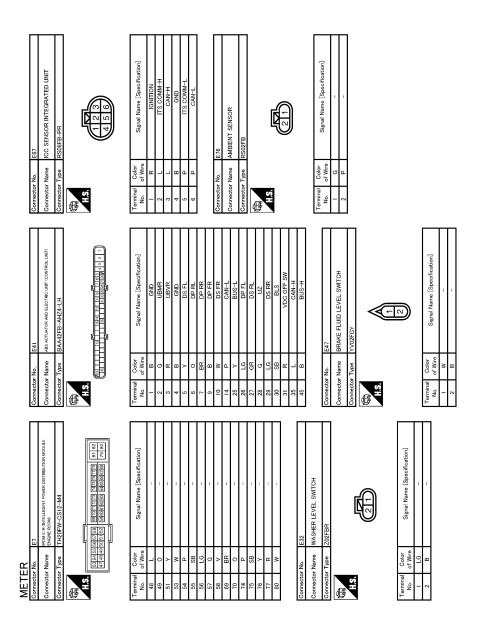
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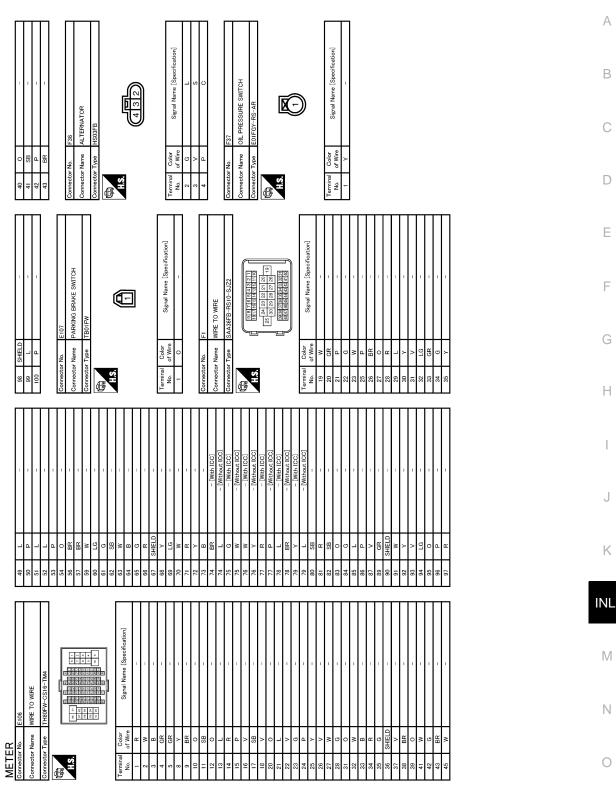
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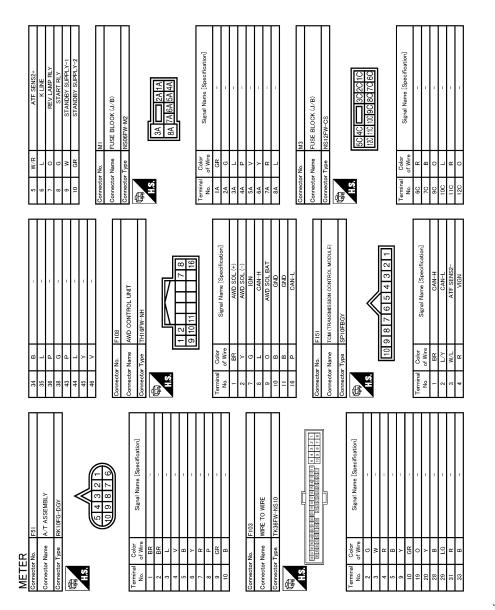
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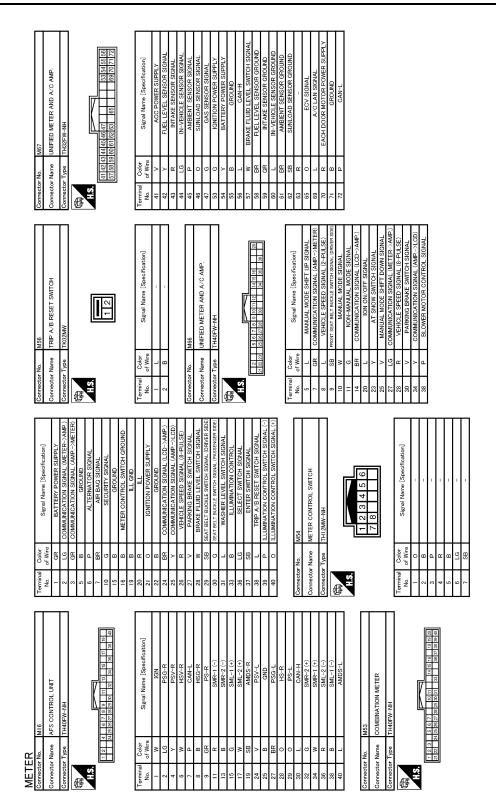
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49 60 R 61 F 62 SHEL 63 SHEL 64 G 65 SHE 66 SHEL 67 G 68 SHEL 69 SHEL 66 SHEL 67 C 68 SHEL 69 SHEL 60 SHEL 70 W 73 G 73 G	73 74<	D
	ion terrored contenend i	E
M7 MRE TO WRE THROME CST6-TM4	Signal Name (Specification) - (Without automatic drive positional) - [Without automatic drive po	F
		G
99 V 100 SB Connector Name Connector Name HS	Terminal Terminal No. 3 3 3 3 3 3 3 4 No. 0 5	Н
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		J
8 9 9 9 4 8 9 9 9 9 9 4 8 9 9 9 9 9 7 7 7 8 9 9 9 9 9 9 7	$ \begin{array}{c} 83 & 83 & 83 & 83 & 83 & 83 & 83 & 83 $	К
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METER Connector No. Connector Name Connector Type A.S. A.S. Connector Type		0

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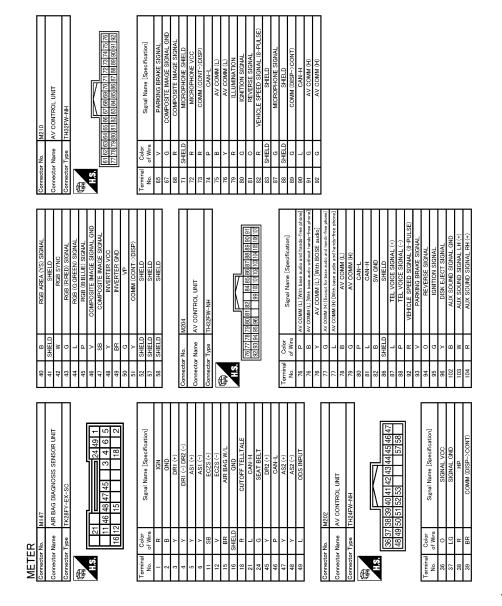
COMBINATION METER

< ECU DIAGNOSIS INFORMATION >

А Signal Name [Specification] В IRE PRESSURE RECE A/T SHIFT SELECTOR 9 1 2 7 8 С RFAR \ M137 Color of Wire Connector No. Connector Name 8 8 8 8 Connecto D 151 erminal No. 0 139 o ≘ Ξ 4 49 ATT - ATT - REOMANTT - ROOMANTT - ROOMANTT - ROOMANTT - ROOMANTT - ROOMANTT - REOMANTT - REELVERTARP - I AN ANP - I AN AN Е Signal Name [Specification] BCM (BODY CONTROL MODULE) COMBI SW INPUT COMBI SW INPUT S/L UNIT COMN KEY SLOT RELAY ASSENGER DOOR -NAC F Ŧ M123 G nnector No. Connector Name ector Type Color of Wire 8 Terminal No. 113 116 118 Connector HIS 83 2 3 <u>0</u> Н Signal Name [Specification] Signal Name [Specification] BCM (BODY CONTROL MODULE) ROOM ANT2-ROOM ANT2+ J WIRE TO WIRE M122 Color of Wire R Color of Wire Connector Type чЖо Connector Name ы 5 a ctor Name Κ Connector No. Terminal No. H.S. erminal No. 8 4 46 72 un de la comencia de INL Signal Name [Specification] 96 86 76 128 124 114 115 108 104 10 127 123 114 111 107 103 91 128 122 114 110 106 102 90 125 121 117 113 109 105 101 90 Μ VEHCAN-+ NDA-PDPP KLINE CDCV BRAKE GND CBN BNC SW GND GND GND NEUT-H j Ν CM Color of Wire Name ∠ ≥ ۳ ۲۵ < В LG SB - G R R o - ≥ 0 METER onnector H.S. erminal No. Ο F

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Fail-Safe

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FAIL-SAFE

Combination meter performs fail-safe operation when unified meter and A/C amp. communication is malfunction.

Solution for communication error between the unified meter and A/C amp. and combination meter.

INL-104

< ECU DIAGNOSIS INFORMATION >

	Function	Specifications	
Speedometer			
Tachometer		Poset to zero by suspending communication	
Fuel gauge		Reset to zero by suspending communication.	
Water temperature gauge			
Illumination control		When suspending communication, change to nighttime mode	
Information display		The display turns off by suspending communication.	
Buzzer		The buzzer turns off by suspending communication.	
	ABS warning lamp		
	VDC OFF indicator lamp		
	SLIP indicator lamp		
	Brake warning lamp	The lamp turns on by suspending communication.	
	CRUISE warning lamp		
	IBA OFF indicator lamp		
	Malfunction indicator lamp		
	High beam indicator		
	Turn signal indicator lamp		
Warning lamp/indicator lamp	Tail lamp indicator lamp		
F	Oil pressure warning lamp		
	A/T CHECK warning lamp		
	AWD warning lamp	The lamp turns off by suspending communication.	
	Low tire pressure warning lamp	I he lamp turns off by suspending communication.	
	Key warning lamp		
	AFS OFF indicator lamp		
	Lane departure warning lamp		
	LDP ON indicator lamp		
	Master warning lamp		

DTC Index

Refer to MWI-104, "DTC Index".

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SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005174101

CAUTION:

Perform the self-diagnosis with CONSULT-III before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Map lamp • Personal lamp • Foot lamp • Luggage room lamp • Step lamp • Vanity mirror lamp	 Harness between BCM and each interior room lamp BCM 	Interior room lamp power supply cir- cuit Refer to <u>INL-20</u> .
 Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) Interior room lamp does not turn OFF even though the door is closed. 	 Harness between BCM and each door switch Harness between BCM and each interior room lamp BCM 	Door switch circuit Refer to <u>DLK-66</u> . Interior room lamp control circuit Refer to <u>INL-22</u> .
 Puddle lamp does not turn ON even though the door is open. Puddle lamp does not turn OFF even though the door is closed. 	 Harness between BCM and each door switch Harness between BCM and puddle lamp BCM 	Door switch circuit Refer to <u>DLK-66</u> . Puddle lamp circuit Refer to <u>INL-22</u> .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	_	Check the interior room lamp setting. Refer to <u>INL-16</u> .
Step lamps (driver side and passenger side) do not turn ON. (The map lamp and the personal lamp turn ON.) Step lamps (driver side and passenger side) do not turn OFF. (The map lamp and the personal lamp turn OFF.)	 Harness between BCM and each step lamp BCM 	Step lamp circuit Refer to <u>INL-24</u> .
Push-button ignition switch illumination does not illuminate.	 Harness between BCM and push- button ignition switch BCM 	Push-button ignition switch illumina- tion circuit Refer to <u>INL-27</u> .
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to <u>INL-17</u> .

< 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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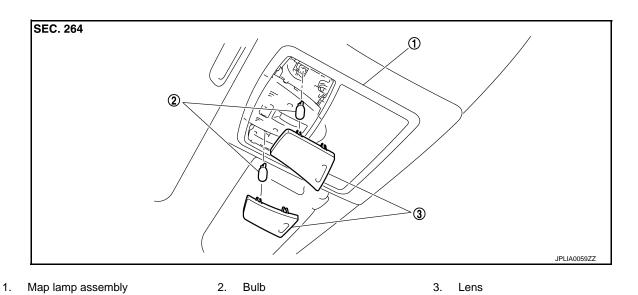
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< REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION MAP LAMP

Exploded View

INFOID:000000005174103



Removal and Installation

Refer to INT-26, "NORMAL ROOF : Exploded View" for the map lamp assembly installation/removal.

Replacement

INFOID:000000005174105

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CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

MAP LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 2. Remove the bulb.

VANITY MIRROR LAMP

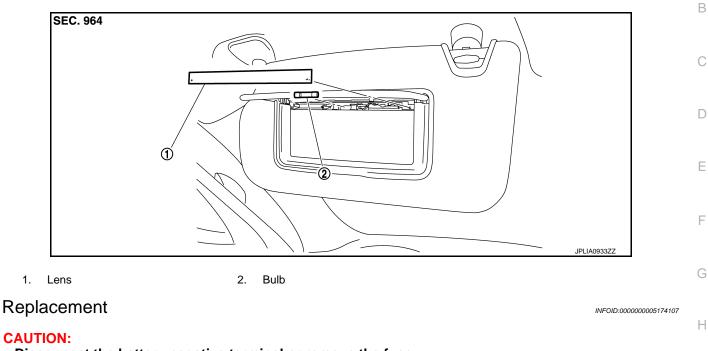
< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

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- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

VANITY MIRROR LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 2. Remove the bulb.

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CIGARETTE LIGHTER ILLUMINATION

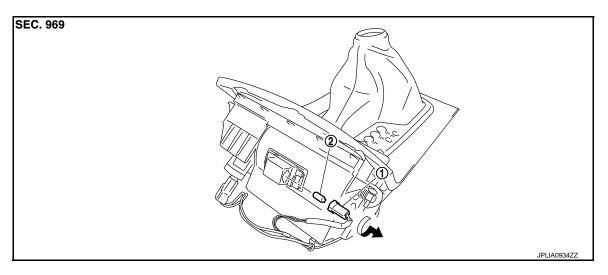
< REMOVAL AND INSTALLATION >

CIGARETTE LIGHTER ILLUMINATION

Exploded View

INFOID:000000005174108

INFOID:000000005174109



1. Bulb socket

2. Bulb

Replacement

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

CIGARETTE LIGHTER ILLUMINATION BULB

- 1. Remove the console finisher assembly. Refer to IP-22, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- 3. Remove the bulb.

GLOVE BOX LAMP

Exploded View

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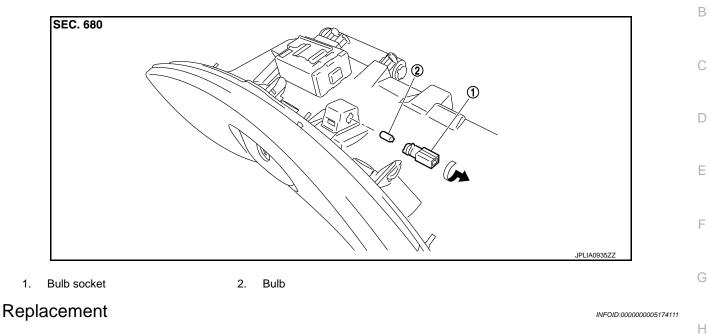
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CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
 Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

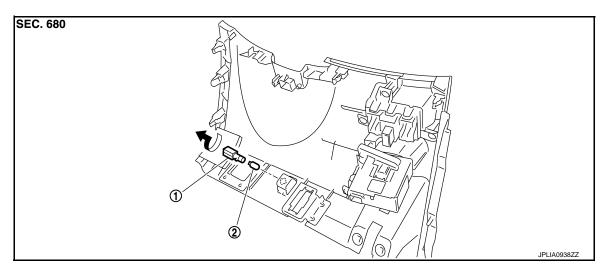
GLOVE BOX LAMP BULB

- 1. Remove the glove box assembly. Refer to IP-11, "Exploded View".
- 2. Remove the instrument lower panel RH. Refer to IP-11, "Exploded View".
- 3. Rotate the bulb socket counterclockwise and unlock it.
- 4. Remove the bulb.

FOOT LAMP DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000005174112



1. Bulb socket

DRIVER SIDE : Replacement

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

FOOT LAMP BULB (DRIVER SIDE)

1. Remove the instrument lower panel LH. Refer to IP-11, "Exploded View".

2.

Bulb

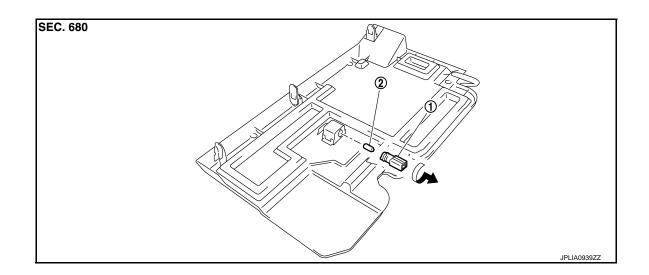
- 2. Rotate the bulb socket counterclockwise and unlock it.
- 3. Remove the bulb.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000005174114

INFOID:000000005174113



	1. Bulb socket	2. Bulb				А
P	ASSENGER SIDE : Replace	ement			INFOID:000000005174115	
	AUTION:					В
• •	Disconnect the battery negative Never touch the glass of bulb Never touch bulb by hand while Never leave bulb out of lamp ref the performance of lamp. When	directly by h it is lit or rig lector for a le	and. Keep grease ht after being turr ong time because	ed off. dust, moisture sn	noke, etc. may affect	С
FC	OOT LAMP BULB (PASSENGE	R SIDE)				D
1. 2. 3.	Remove the instrument lower co Rotate the bulb socket counterc Remove the bulb.			<u>ïew"</u> .		Е
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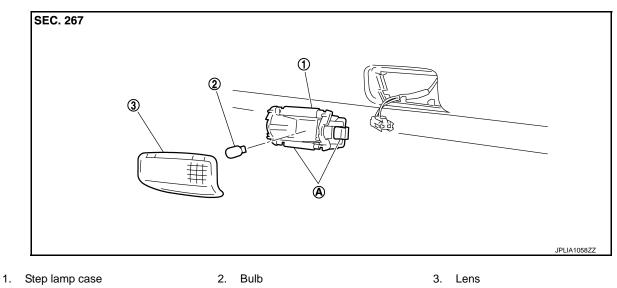
STEP LAMP

Exploded View

INFOID:000000005174116

INFOID:000000005174117

INFOID:000000005174118



A Metal clip

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Insert any appropriate tool into the gap between the step lamp and the door trim. Remove the step lamp.
- 2. Disconnect the step lamp connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

STEP LAMP BULB

- 1. Remove the step lamp.
- 2. Remove the lens.
- 3. Remove the bulb.

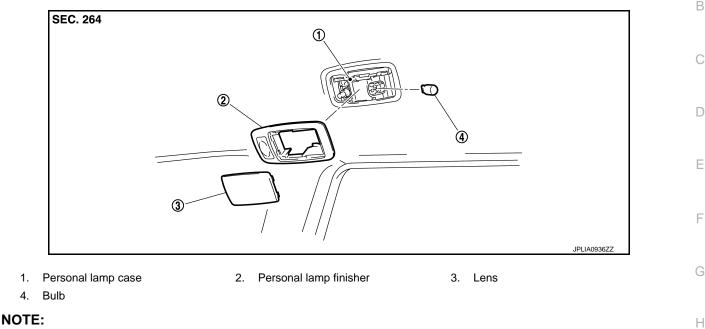
Revision: 2009 August

PERSONAL LAMP

Exploded View

INFOID:000000005174119

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Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to <u>INT-26, "NORMAL ROOF : Exploded View"</u>.

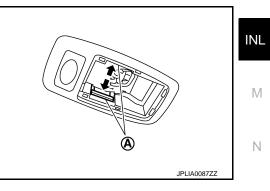
Removal and Installation	INFOID:000000005174120	I
CAUTION: Disconnect the battery negative terminal or remove the fuse.		J
REMOVAL		0

1. Remove the headlining assembly. Refer to INT-26, "NORMAL ROOF : Exploded View".

- 2. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 3. Press the both side pawls (A) to the arrow direction (**(**). Remove the personal lamp finisher.
- 4. Remove the personal lamp case from the headlining assembly.

NOTE:

Replace the personal lamp case as a set (right and left).



INSTALLATION Install in the reverse order of removal. **NOTE:** The following is easier to install the personal lamp finisher.

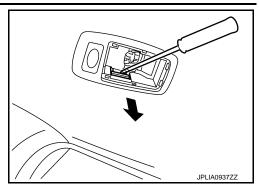
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PERSONAL LAMP

< REMOVAL AND INSTALLATION >

Press the personal lamp finisher to the headlining. Pull the personal lamp case pawl to the arrow direction (
 with any appropriate tool.



Replacement

INFOID:000000005174121

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

PERSONAL LAMP BULB

- 1. Insert any appropriate tool into the gap between the lens. Remove the lens.
- 2. Remove the bulb.

PUDDLE LAMP

Exploded View	INFOID:000000005174122	А
 Puddle lamp is integrated into the door mirror assembly (driver side). With ADP. Refer to <u>MIR-115, "DOOR MIRROR ASSEMBLY : Exploded View"</u>. Without ADP. Refer to <u>MIR-137, "DOOR MIRROR ASSEMBLY : Exploded View"</u>. 		В
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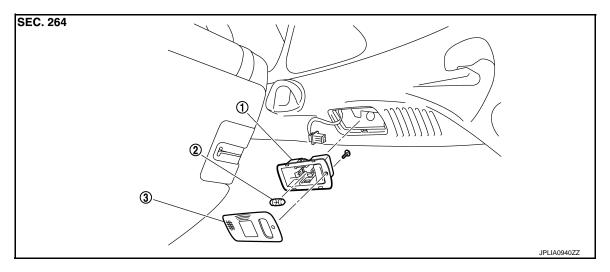
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LUGGAGE ROOM LAMP LUGGAGE SIDE

LUGGAGE SIDE : Exploded View

INFOID:000000005174123



1. Luggage room lamp (luggage side) 2. Bulb 3. Lens housing

LUGGAGE SIDE : Removal and Installation

INFOID:000000005174124

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Insert any appropriate tool into the gap between the luggage room lamp (luggage side) and luggage side finisher upper. And then remove the luggage room lamp (luggage side).
- 2. Disconnect the luggage room lamp (luggage side) connector.

INSTALLATION

Install in the reverse order of removal.

LUGGAGE SIDE : Replacement

INFOID:000000005174125

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.
- Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

LUGGAGE ROOM LAMP (LUGGAGE SIDE) BULB

- 1. Remove the luggage room lamp (luggage side). Refer to INL-118, "LUGGAGE SIDE : Exploded View".
- 2. Remove the screw. And then remove the lens.
- 3. Remove the bulb.

BACK DOOR SIDE

LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

BACK DOOR SIDE : Exploded View

INFOID:000000005174126

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1. Luggage room lamp (back door side) 2. Lens 3. Bulb assembly	
BACK DOOR SIDE : Removal and Installation	G 0000005174127
CAUTION: Disconnect the battery negative terminal or remove the fuse.	Н
REMOVAL	
 Insert any appropriate tool into the gap between the luggage room lamp (back door side) assem back door finisher inner. Remove the luggage room lamp (back door side) assembly. 	bly and
2. Disconnect the luggage room lamp (back door side) connector.	J
INSTALLATION Install in the reverse order of removal.	-
RACK DOOR SIDE : Poplagement	0000005174128 K
·	
 CAUTION: Disconnect the battery negative terminal or remove the fuse. Never touch the glass of bulb directly by hand. Keep grease and other oily matters away f Never touch bulb by hand while it is lit or right after being turned off. 	irom it. ^{INL}
 Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may the performance of lamp. When replacing bulb, be sure to replace it with new one. 	y affect
LUGGAGE ROOM LAMP BULB	
 Remove the luggage room lamp (back door side). Refer to <u>INL-119, "BACK DOOR SIDE : Ex View"</u>. 	kploded N
2. Remove the screw. And then remove the lens.	
3. Remove the bulb.	0
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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000005174129

Item	Туре	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	Wedge	8
Console lamp (integrated into the map lamp assembly)	LED	—
Puddle lamp	LED	_
Vanity mirror lamp		2
Cigarette lighter illumination	Wedge	1.4
Glove box lamp	Wedge	1.4
Foot lamp	Wedge	1.4
Step lamp	Wedge	8
Personal lamp	Wedge	8
Luggage room lamp	_	8