SECTION INTERIOR LIGHTING SYSTEM

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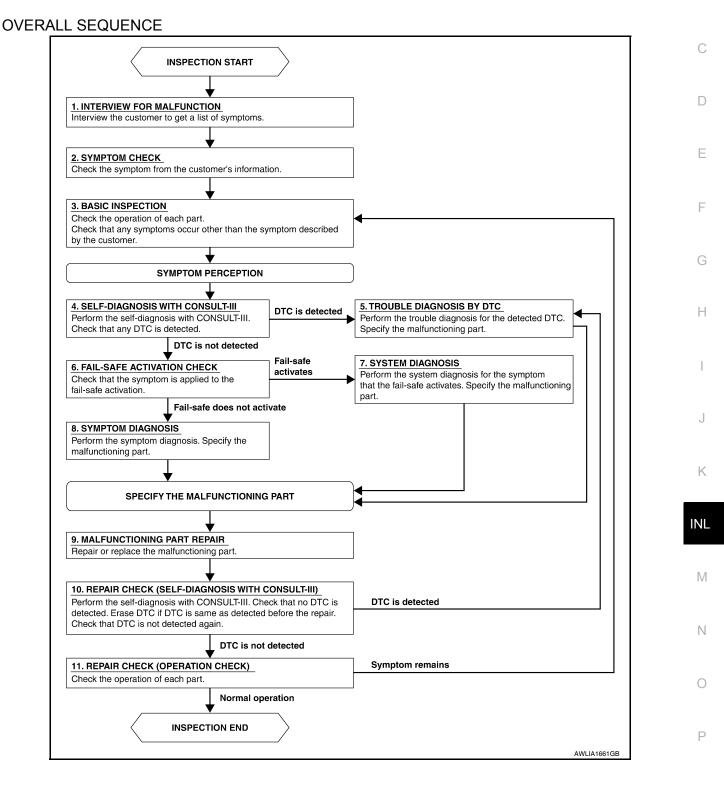
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BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3

3.BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> 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

Determine if the customer's concern is related to 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 in which 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. Verified that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5

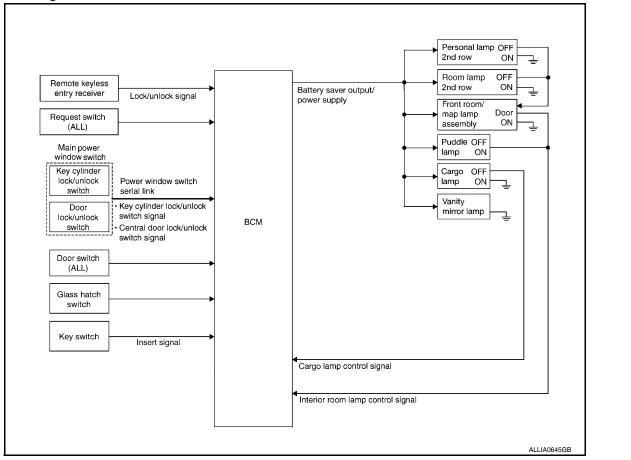
DIACNOSIS AND DEDAID MODIFELOW

DIAGNOSIS AND REPAIR WORKFLOW	
< BASIC INSPECTION >	
NO >> GO TO 11	
11.REPAIR CHECK (OPERATION CHECK)	A
Check the operation of each part.	
Does it operate normally?	В
YES >> Inspection End NO >> GO TO 3	
NO >> GO TO 3	
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< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
- *Front room/map lamp, personal lamp 2nd row (with rear map lamps) or room lamp 2nd row (without rear map lamps).
- Cargo lamp is controlled by the cargo lamp control function of the BCM.

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches, the key switch (without Intelligent Key) or the key switch and ignition knob switch (with Intelligent Key).

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position and when all conditions below are met, the BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

• When the front door LH is unlocked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].

• When a door opens \rightarrow closes and the Intelligent Key is not inserted in the key slot.

Timer control is cancelled under the following conditions.

- When the front door LH is locked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly LH (key cylinder switch)].
- A door is opened (door switch turns ON).
- Intelligent Key is inserted into the key slot.

Interior lamp operational settings can be changed with the function setting of CONSULT-III.

< FUNCTION DIAGNOSIS >

INTERIOR LAMP BATTERY SAVER CONTROL

А If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 30 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

After the battery saver system turns the lamps OFF, the lamps will illuminate again when

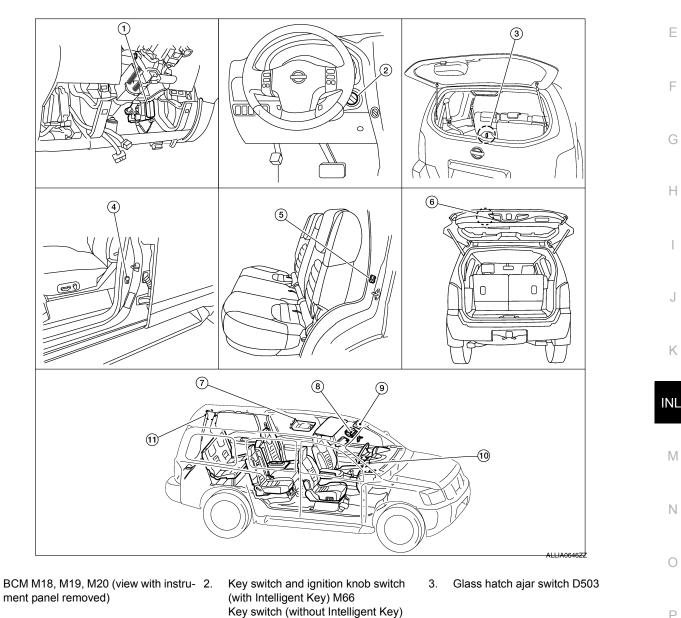
- a signal is received from an Intelligent Key or main power window and door lock/unlock switch, or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- · a door is opened or closed
- the Intelligent Key is removed from or inserted into the key slot.

The Interior lamp battery saver control time period can be changed with the function setting of CONSULT-III.

Component Parts Location

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- 4. Front door switch LH B8 Front door switch RH B108
- Key switch (without Intelligent Key) M27
- 5. Rear door switch LH B18 Rear door switch RH B116

6. Back door latch (door ajar switch) D502

1.

< FUNCTION DIAGNOSIS >

- Personal lamp 2nd row (with personal 8. lamp 2nd row) R10 Room lamp 2nd row (without personal lamp 2nd row) R12
- B. Front room/map lamp assembly R9
- Vanity lamp LH (with vanity lamps) B80 Vanity lamp RH (with vanity lamps) B81

10. Ignition keyhole illumination M150 11. Cargo lamp R11

Component Description

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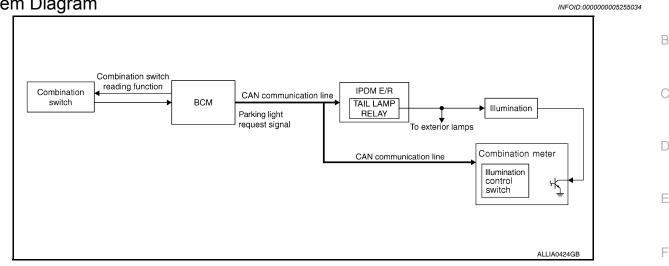
Part name	Description	
BCM	Provides power and ground and controls timer functions for th interior room lamps, step lamps and cargo lamp.	
Key switch and ignition knob switch (with Intelligent Key)	Provides key in ignition status to the PCM	
Key switch (without Intelligent Key)	Provides key in ignition status to the BCM.	
Door switches	Provides door OPEN/CLOSED status to the BCM.	
Glass hatch ajar switch	Provides glass hatch OPEN/CLOSED status to the BCM.	
Back door latch (door ajar switch)	Provides back door OPEN/CLOSED status to the BCM.	
Power window and door lock/unlock switch RH	Provides door lock/unlock position switch RH status to the BCM.	
Main power window and door lock/unlock switch	Dravidaa daar laak/uplaak position awitah I H atatus to the DCM	
Front door lock assembly LH (key cylinder switch)	Provides door lock/unlock position switch LH status to the BCM.	

ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

The illumination lamps operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the lighting switch (combination switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 30 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the illumination lamps are turned off after a 30 second delay. When the lighting switch is turned from OFF to 1ST or 2ND position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

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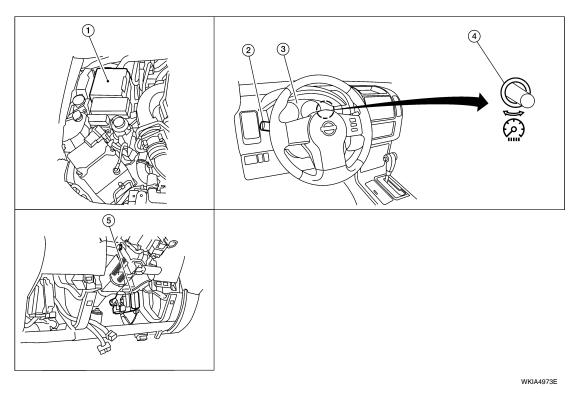
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ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

Component Parts Location



- 1. IPDM E/R E122, E124
- 2. Combination switch M28
- 3. Combination meter M24

4. Illumination control switch (built into combination meter)

Component Description

5.	BCM M18, M20 (view with instrument
	panel removed)

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Part name	Description	
BCM	The BCM monitors the lighting switch position with the combina- tion switch reading function. The BCM requests, via CAN com- munication, that the IPDM E/R activate the tail lamp relay.	
IPDM E/R	The IPDM E/R activates the tail lamp relay based on inputs re- ceived from the BCM via the CAN communication network.	
Combination meter (illumination control switch)	The illumination control switch is a part of the combination meter. The combination meter controls illumination intensity by varying ground to the illumination lamps based on the illumination control switch position.	
Combination switch	The combination switch provides input to the BCM about the light- ing switch position.	

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-DIAG RESULTS	Displays the diagnosis results judged by BCM. Refer to BCS-54, "DTC Index".	D
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.	
DATA MONITOR	The BCM input/output signals are displayed.	E
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.	
ECU IDENTIFICATION	The BCM part number is displayed.	
CONFIGURATION	Enables to read and save the vehicle specification.Enables to write the vehicle specification when replacing BCM.	F

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.

Sustam	Sub system selection item	Diagnosis mode			-
System		WORK SUPPORT	DATA MONITOR	ACTIVE TEST	-
BCM	BCM	×			- 1
Door lock	DOOR LOCK	×	×	×	-
Rear window defogger	REAR DEFOGGER		×	×	J
Warning chime	BUZZER		×	×	-
Interior room lamp timer	INT LAMP	×	×	×	
Remote keyless entry system ¹	MULTI REMOTE ENT	×	×	×	- K
Exterior lamp	HEAD LAMP	×	×	×	-
Wiper and washer	WIPER	×	×	×	INL
Turn signal and hazard warning lamps	FLASHER		×	×	
Air conditioner	AIR CONDITONER		×		
Intelligent Key system ²	INTELLIGENT KEY		×		- M
Combination switch	COMB SW		×		-
Immobilizer	IMMU		×	×	N
Interior room lamp battery saver	BATTERY SAVER	×	×	×	-
Back door open	TRUNK		×	×	
RAP (retained accessory power)	RETAINED PWR	×	×	×	0
Signal buffer system	SIGNAL BUFFER		×	×	-
TPMS (tire pressure monitoring sys- tem)	AIR PRESSURE MONITOR	x	×	×	Р
Vehicle security system	THEFT ALM	×	×	×	-
Panic alarm	PANIC ALARM			×	-

1: With remote keyless entry system

2: With Intelligent Key

INT LAMP

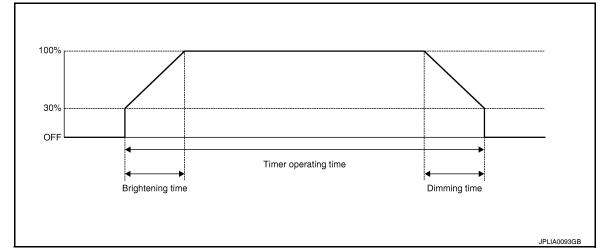
DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

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WORK SUPPORT



Work Item	Setting item	Setting		
SET I/L D-UNLCK INTCON	ON*	With the in	nterior room lamp timer function	
SET I/L D-UNLER INTCOM	OFF	Without the interior room lamp timer function		
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
	MODE 3	2 sec.		
ROOM LAMP ON TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		
	MODE 1	0.5 sec.		
	MODE 2*	1 sec.		
	MODE 3	2 sec.		
ROOM LAMP OFF TIME SET	MODE 4	3 sec.	Sets the interior room lamp gradual dimming time.	
	MODE 5	4 sec.		
	MODE 6	5 sec.		
	MODE 7	0 sec.		

* : Initial setting

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [ON/OFF]	Ignition switch (ON) status judges from IGN signal (ignition power supply)
KEY ON SW [ON/OFF]	The switch status input from key switch
DOOR SW-DR [ON/OFF]	The switch status input from front door switch LH
DOOR SW-AS [ON/OFF]	The switch status input from front door switch RH
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
BACK DOOR SW [ON/OFF]	The switch status input from back door switch
KEY CYL LK-SW [ON/OFF]	Lock switch status input from door lock and unlock switch
KEY CYL UN-SW [ON/OFF]	Lock switch status input from door lock and unlock switch

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description	
CDL LOCK SW [ON/OFF]	Lock switch status input from door lock and unlock switch	
CDL UNLOCK SW [ON/OFF]	Unlock switch status input from door lock and unlock switch	
KEYLESS LOCK ¹ [ON/OFF]	Lock signal status received from remote keyless entry receiver (integrated in the BCM)	
KEYLESS UNLOCK ¹ [ON/OFF]	Unlock signal status received from remote keyless entry receiver (integrated in the BCM)	
I-KEY LOCK ² [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication	
I-KEY UNLOCK ² [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication	

1: With remote keyless entry

2: With Intelligent Key

ACTIVE TEST

Test Item	Operation	Description		
IGN ILLUM	ON	Outputs the ignition keyhole illumination control signal to turn the ignition keyhole il- lumination lamp ON.		
	OFF	Stops the ignition keyhole illumination control signal to turn the ignition keyhole illu- mination lamp OFF.		
	ON	Outputs the interior room lamp control signal to turn the interior room lamps ON.		
INT LAMP	OFF	Stops the interior room lamp control signal to turn the interior room lamps OFF.		
	ON	Outputs the step lamp control signal to turn the step lamps ON.		
STEP LAMP TEST	OFF	Stops the step lamp control signal to turn the step lamps OFF.		
	ON	Outputs the luggage lamp control signal to turn the luggage lamp ON.		
LUGGAGE LAMP TEST	OFF	Stops the luggage lamp control signal to turn the luggage lamp OFF.		

BATTERY SAVER

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

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WORK SUPPORT

Work Item	Setting Item	Setting		INL
	MODE 1*	30 min.		
ROOM LAMP TIMER SET	MODE 2	60 min.	Sets the interior room lamp battery saver timer operating time.	
	MODE 3	10 min.		M

*: Initial setting

DATA MONITOR

Monitor Item [Unit]	Description		
IGN ON SW [ON/OFF]	Ignition switch (ON) status judges from IGN signal (ignition power supply)		
KEY ON SW [ON/OFF]	The switch status input from key switch		
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		
BACK DOOR SW [ON/OFF]	The switch status input from back door switch		
KEY CYL LK-SW [ON/OFF]	Lock switch status input from door key cylinder switch		

Revision: July 2009

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Monitor Item [Unit]	Description	
KEY CYL UN-SW [ON/OFF]	Unlock switch status input from door key cylinder switch	
CDL LOCK SW [ON/OFF]	Lock switch status input from door lock and unlock switch	
CDL UNLOCK SW [ON/OFF]	Unlock switch status input from door lock and unlock switch	
I-KEY LOCK ¹ [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication	
I-KEY UNLOCK ¹ [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication	
KEYLESS LOCK ² [ON/OFF]	Lock signal status received from remote keyless entry receiver (integrated in the BCM)	
KEYLESS UNLOCK ² [ON/OFF]	Unlock signal status received from remote keyless entry receiver (integrated in the BCM)	

1: With Intelligent Key

2: With remote keyless entry

ACTIVE TEST

Test Item	Operation	Description	
BATTERY SAVER	OFF	Cuts the interior room lamp power supply to turn interior room lamps OFF.	
DATIENTORVEN	ON	Outputs the interior room lamp power supply to turn interior room lamps ON.*	

*: Each lamp switch is in ON position.

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>BCS-50, "Wiring Diagram"</u>.

1. CHECK FUSES AND FUSIBLE LINK

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

	Fuses and fusible link No.	Signal name	Terminal No.
_	18 (10A)	Detter a surge surge h	57
	G (50A)	Battery power supply	70
	4 (10A)	Ignition ACC or ON	11
(1 (10A)	Ignition ON or START	38

Is the fuse blown?

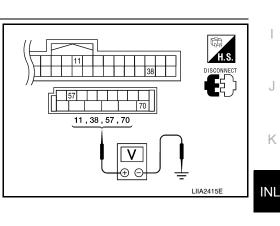
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2

2. CHECK POWER SUPPLY CIRCUIT

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

Connector	Terminals		Power	Condition	Voltage (V) (Ap-
Connector	(+)	(-)	source	Condition	prox.)
M18	11	Ground	ACC power supply	Ignition switch ACC or ON	Battery voltage
	38	Ground	lgnition power supply	Ignition switch ON or START	Battery voltage
M20	57	Ground	Battery power supply	lgnition switch OFF	Battery voltage
	70	Ground	Battery power supply	lgnition switch OFF	Battery voltage



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Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

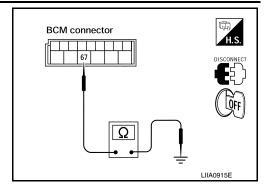
Check continuity between BCM harness connector and ground.

B	CM		Continuity
Connector	Connector Terminal		Continuity
M20	67	*	Yes

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.



BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

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

Component Function Check

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1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION CONSULT-III D Turn ignition switch ON. 1. Turn each interior room lamp ON. 2. Front room/map lamp assembly Vanity lamps (if equipped) Ε Cargo lamp Personal lamp 2nd row (with personal lamp 2nd row) Room lamp 2nd row (without personal lamp 2nd row) Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item. 3. While operating the test item, check that each interior room lamp turns ON/OFF. 4. OFF : Interior room lamp OFF ON : Interior room lamp ON Is the inspection result normal? Н YES >> Battery saver output/power supply circuit is normal. >> Refer to INL-17, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:000000005255044

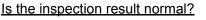
Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT-III

- 1. Turn ignition switch ON.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- While operating the test item, check voltage between BCM connector M20 terminal 56 and ground.

(+)		()	Test item	Voltage
Connector	Terminal	(-)	BATTERY SAVER	vollage
M20	56	56 Ground	OFF	0V
IVIZO	50	Ground	ON	Battery voltage



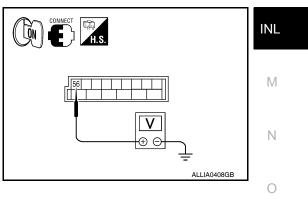
YES >> GO TO 2

NO >> Replace BCM. Refer to <u>BCS-59</u>, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.

- 2. Disconnect the following connectors.
- BCM M20
- Ignition keyhole illumination
- Front room/map lamp assembly
- Vanity lamp LH (if equipped)



BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

- Vanity lamp RH (if equipped)
- Cargo lamp
- Personal lamp 2nd row (with personal lamp 2nd row)
- Room lamp 2nd row (without personal lamp 2nd row)
- 3. Check continuity between BCM connector and each interior room lamp connector.

BCM		Each interior room lamp			Continuity	
Connector	Terminal Connector			Terminal	Continuity	
		Ignition keyhole illumination	M150	1		
		Front room/map lamp assembly	R9	1		
		Vanity lamp LH (if equipped)	B80	1		
M20	56	Vanity lamp RH (if equipped)	B81	1	Yes	
		Cargo lamp	R11	2		
		Personal lamp 2nd row (with personal lamp 2nd row)	R10	1		
		Room lamp 2nd row (without personal lamp 2nd row)	R12	2		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

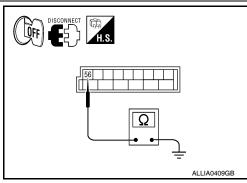
3.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector M20 terminal 56 and ground.

Connector	Terminal	—	Continuity
M20	56	Ground	No

Is the inspection result normal?

- YES >> Check that each interior room lamp has no internal short circuit.
- NO >> Repair the harness or connectors.



INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >	
INTERIOR ROOM LAMP CONTROL CIRCUIT	А
Description	
Controls the following interior room lamps (ground side) by PWM signal • Front room/map lamp assembly • Personal lamp 2nd row (with personal lamp 2nd row) • Room lamp 2nd row (without personal lamp 2nd row) NOTE: DWM signal control period is approximately 250 Ltp (in the gradual brightening (dimming))	B
PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming). Component Function Check	
CAUTION:	D
 Before performing the diagnosis, check that the following is normal. Battery saver output/power supply Front room/map lamp bulbs Personal lamp 2nd row bulbs (with personal lamp 2nd row) 	E
Room lamp 2nd row bulbs (without personal lamp 2nd row) 1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION	F
 CONSULT-III Switch the map lamp switch to DOOR. Turn ignition switch ON. 	G
 Select "INT LAMP" of BCM (INT LAMP) active test item. While operating the test item, check that each interior room lamp turns ON/OFF (gradual brightening/dimming). 	Η
ON : Interior room lamp gradual brightening	1
OFF : Interior room lamp gradual dimming	1
Is the inspection result normal?	
YES >> Interior room lamp control circuit is normal. NO >> Refer to <u>INL-19, "Diagnosis Procedure"</u> .	J
Diagnosis Procedure	
	K

Regarding Wiring Diagram information, refer to INL-25, "Wiring Diagram".

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2.
- Select "INT LAMP" of BCM (INT LAMP) active test item. While operating the test item, check voltage between BCM har-3. ness connector M20 terminal 63 and ground.

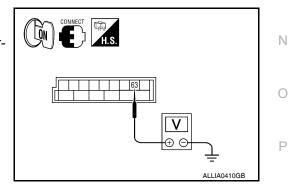
(+)		(-)	INT LAMP	Voltage	
Connector	Connector Terminal				
M20	63	Ground	ON	0V	
WIZ0	05	Ground	OFF	Battery voltage	

Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally. Fixed ON>>GO TO 3

Fixed OFF>> GO TO 2

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT



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INTERIOR ROOM LAMP CONTROL CIRCUIT

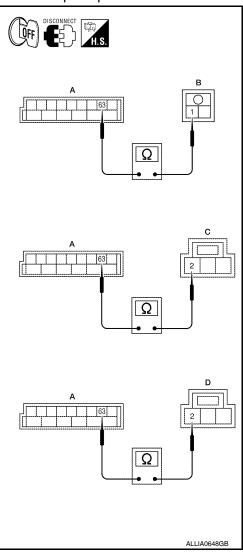
< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, personal lamp 2nd row connector (with personal lamp 2nd row) or room lamp 2nd row connector (without personal lamp 2nd row) and front room/map lamp connector.
- 3. Check continuity between BCM connector M20 terminal 63 and interior room lamp connectors.

Terminal		Т	Continuity		
Connector	Terminal	Component	Connector	Terminal	Continuity
		Room lamp 2nd row (without per- sonal lamp 2nd row)	B: R12	1	
A: M20	63	Personal lamp 2nd row (with per- sonal lamp 2nd row)	C: R10	2	Yes
		Front room/map lamp	D: R9	2	+

Is the inspection result normal?

- YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to <u>BCS-59, "Removal and Installation"</u>. If NG, replace interior room lamp. Refer to <u>INL-65,</u> <u>"Removal and Installation"</u>.
- NO >> Repair the harness or connectors.



3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.

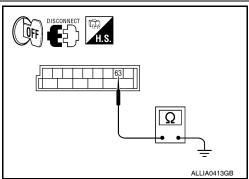
- 2. Disconnect BCM connector M20, personal lamps 2nd row connector (with personal lamp 2nd row) or room lamp 2nd row connector (without personal lamp 2nd row).
- 3. Check continuity between BCM connector and ground.

Connector	Terminal	_	Continuity
M20	63	Ground	No

Is the inspection result normal?

tion". If NG, replace interior room lamp. Refer to INL-65. "Removal and Installation".

NO >> Repair the harness or connectors.



CARGO LAMP CONTROL CIRCUIT

< COMPO			GO LAWIF C		KCOII		
Descripti	on					INFOID:000000005255048	А
•		p (around side) to turn the car	go lamp ON and	OFF.		В
	-	ion Check	,	3 p		INFOID:000000005255049	D
	aver outpu	e diagnosis, t/power supp		following is nor	mal.		С
1.CHECK	CARGO LA	MP OPERATI	ON				D
2. Select	nition switcł "LUGGAGE	LAMP TEST		AMP) active test amp turns ON/OF			E
ON	: Car	go lamp ON					F
OFF		go lamp OFF					
Is the inspe							G
YES >> NO >>	Refer to IN	p circuit is nor IL-21, "Diagno	mai. <u>sis Procedure"</u> .				
Diagnosi	s Proced	ure				INFOID:000000005255050	Н
Regarding	Wiring Diag	ram informatic	n, refer to <u>INL-2</u>	25. "Wiring Diagra	<u>am"</u> .		I
1.снеск	CARGO LA						J
2. Select item.		LAMP TEST"		AMP) active test	CONNECT H.S.		K
		e test item, ch al 49 and grou		ween BCM con-			INL
Connector	Terminal	_	LUGGAGE LAMP TEST	Voltage			M
M19	49	Ground	ON	0V			
			OFF	Battery voltage		ALLIA0417GB	Ν
<u>Is the inspe</u> YES >>			it is operating no	ormallv.			
Fixed ON>	>>GO TO 3 >>GO TO 2		5	,			0
~		MP OPEN CI	RCUIT				
							Ρ

CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector.
 Check continuity between BCM connector M19 (A) terminal 49
- and cargo lamp connector R11 (B) terminal 1.

BCM		Cargo	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M19 (A)	49	R11 (B)	1	Yes

Is the inspection result normal?

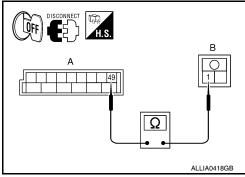
- YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to <u>BCS-59, "Removal and Installation"</u>. If NG, replace cargo lamp. Refer to <u>INL-69,</u> "Removal and Installation".
- NO >> Repair harness or connectors.
- $\mathbf{3}$.check cargo lamp short circuit
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector R11.
 Check continuity between BCM connector M19 terminal 49 and
- ground.

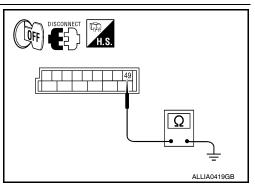
Connector	Terminal	—	Continuity
M19	49	Ground	No

Is the inspection result normal?

YES >> Check cargo lamp for a short circuit. If OK, replace BCM. Refer to <u>BCS-59</u>, "<u>Removal and Installation</u>". If NG, replace cargo lamp. Refer to <u>INL-69</u>, "<u>Removal and</u> <u>Installation</u>".

NO >> Repair harness or connectors.





IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

	А
Description	
Controls the ignition keyhole illumination (ground side) to turn the ignition keyhole illumination ON and OFF.	В
Component Function Check	2
Before performing the diagnosis, check that the following is normal. • Battery saver output/power supply circuit • Ignition keyhole illumination bulb 1.CHECK IGNITION KEYHOLE ILLUMINATION OPERATION	D
 CONSULT-III Turn the ignition switch ON. Select "IGN ILLUM" of BCM (INT LAMP) active test item. While operating the test item, check that the ignition keyhole illumination turns ON/OFF 	E
ON : Ignition keyhole illumination ON OFF : Ignition keyhole illumination OFF	F
Is the inspection result normal? YES >> Ignition keyhole illumination circuit is normal. NO >> Refer to INL-23, "Diagnosis Procedure".	G
Diagnosis Procedure	3
Regarding Wiring Diagram information, refer to INL-25. "Wiring Diagram".	
1. CHECK IGNITION KEYHOLE OUTPUT	J

CONSULT-III

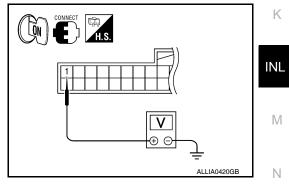
- 1. Turn ignition switch ON.
- 2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM connector M18 terminal 1 and ground.

Connector	Terminal	—	IGN ILLUM	Voltage
M18 1	1	1 Ground	ON	0V
NI TO	Ground	OFF	Battery voltage	

Is the inspection result normal?

YES >> Ignition keyhole illumination is operating normally. Fixed ON>>GO TO 3 Fixed OFF>>GO TO 2

2. CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT



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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 (A) terminal 1 and ignition keyhole illumination connector M150 (B) terminal 2.

BCM		Ignition keyho	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M18 (A)	1	M150 (B)	2	Yes

Is the inspection result normal?

- YES >> Check ignition keyhole illumination for an open. If OK, replace BCM. Refer to <u>BCS-59, "Removal</u> and Installation". If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

$\mathbf{3}$. CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

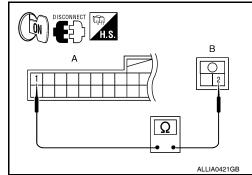
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M18 and ignition keyhole illumination connector.
- 3. Check continuity between BCM connector M18 terminal 1 and ground.

Connector	Terminal	—	Continuity
M18	1	Ground	No

Is the inspection result normal?

YES >> Check ignition keyhole illumination for a short circuit. If OK, replace BCM. Refer to <u>BCS-59</u>, "<u>Removal and</u> <u>Installation</u>". If NG, replace ignition keyhole illumination.

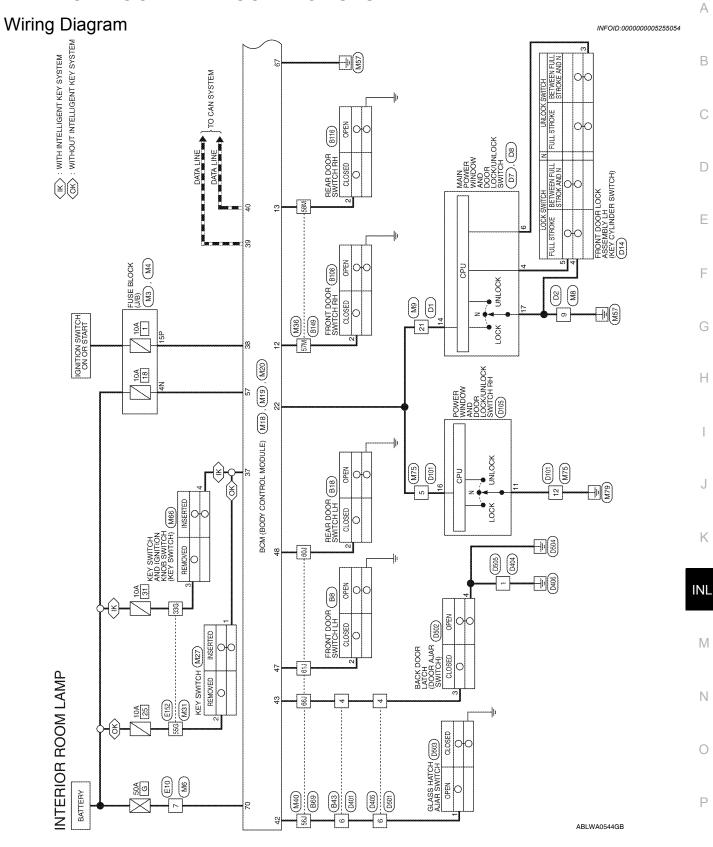
NO >> Repair harness or connectors.



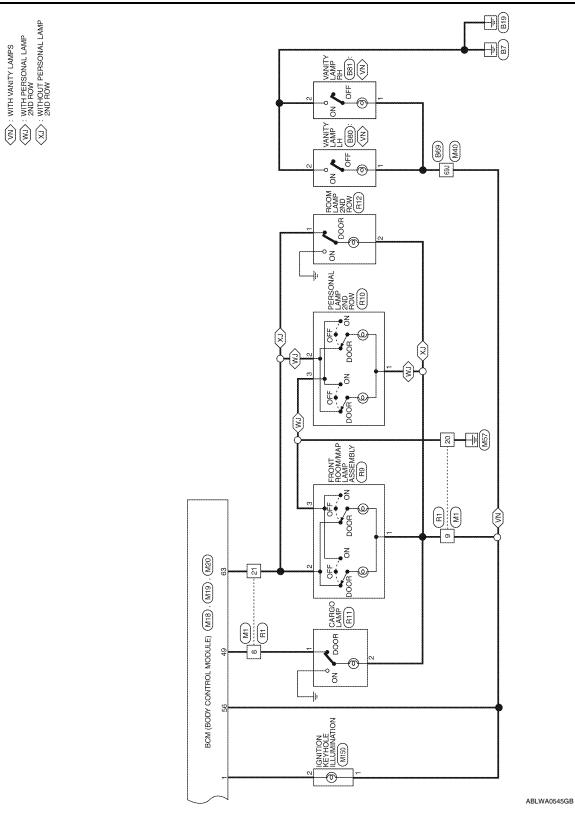
DISCONNECT THE SECONDECT THE S

< COMPONENT DIAGNOSIS >

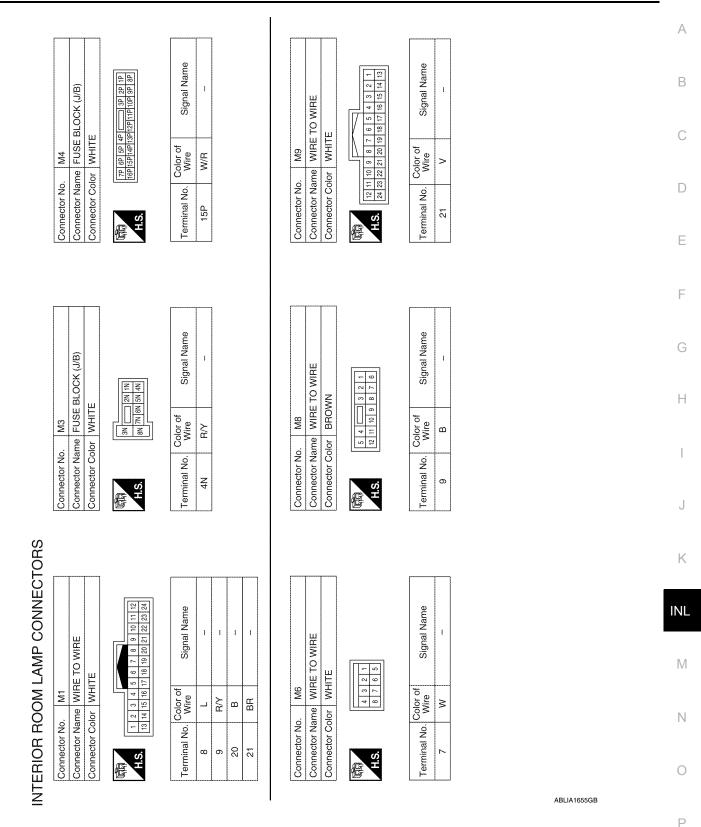
INTERIOR ROOM LAMP CONTROL SYSTEM

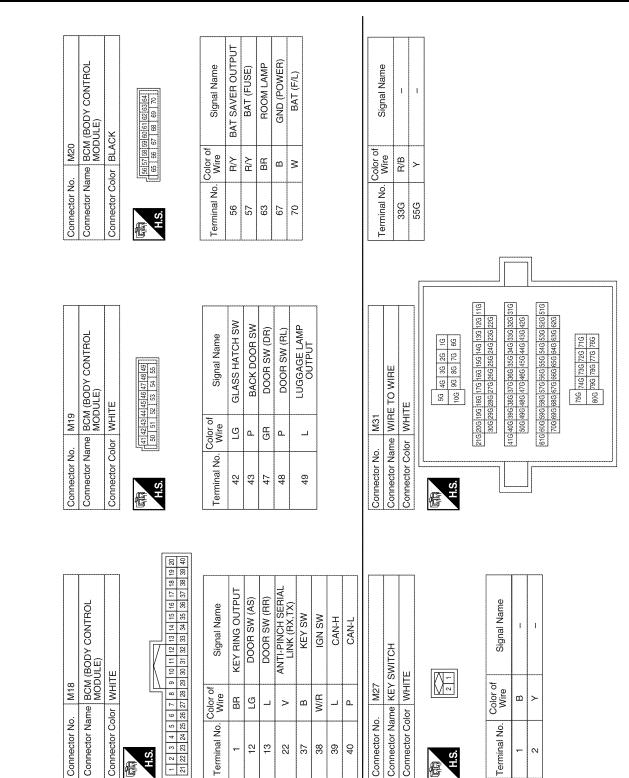


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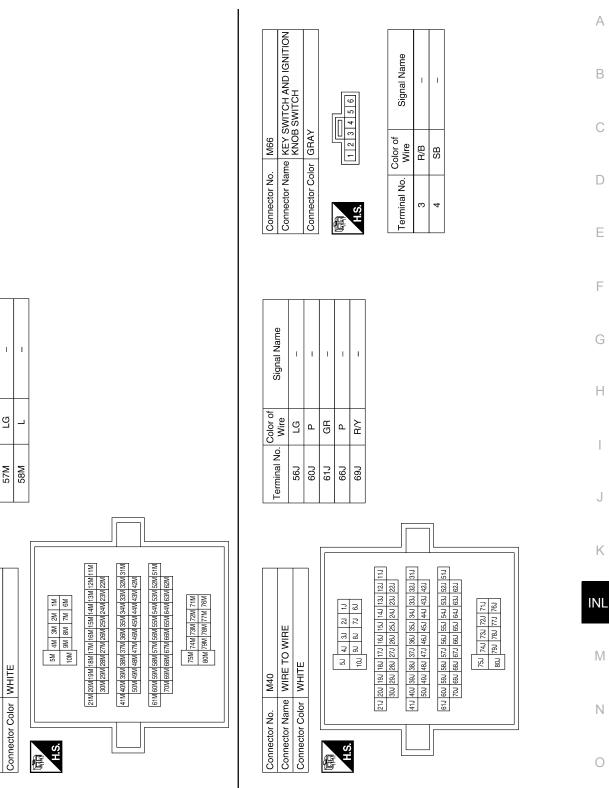
Signal Name

Color of Wire

Terminal No.

Connector Name WIRE TO WIRE

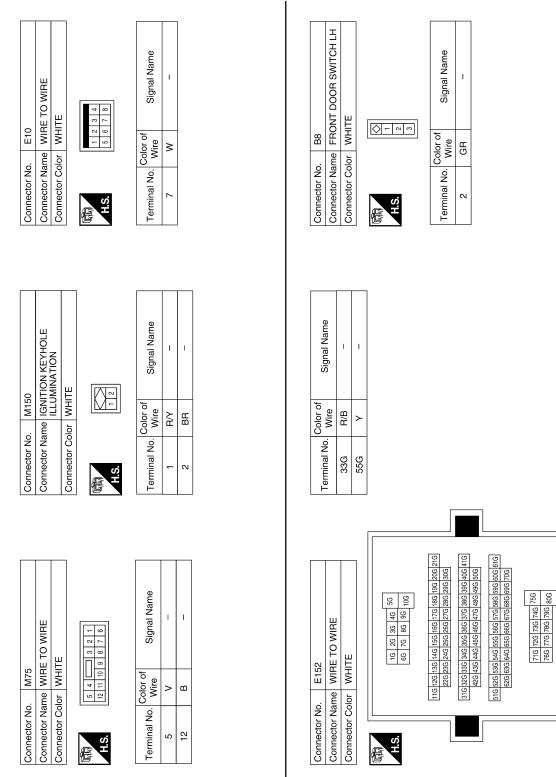
Connector No. M36



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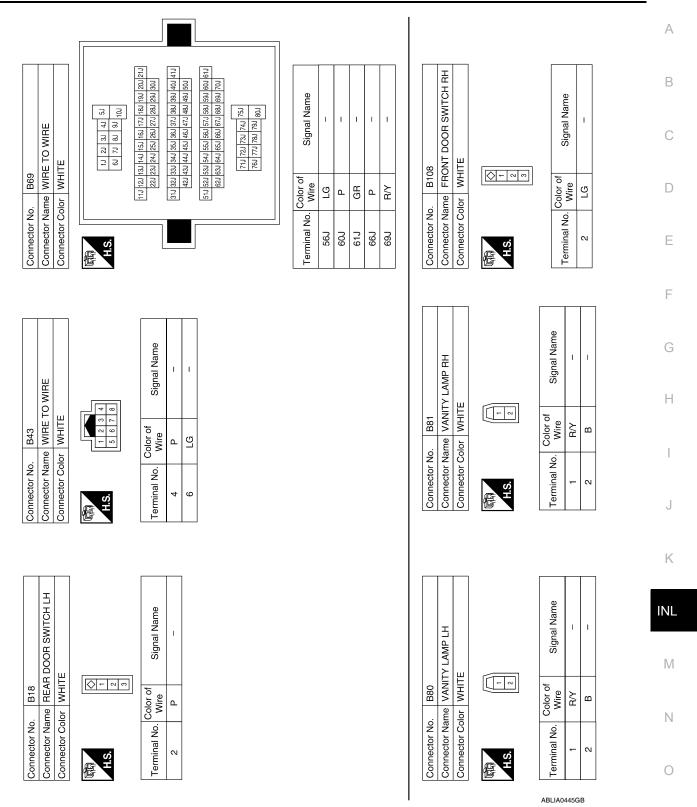
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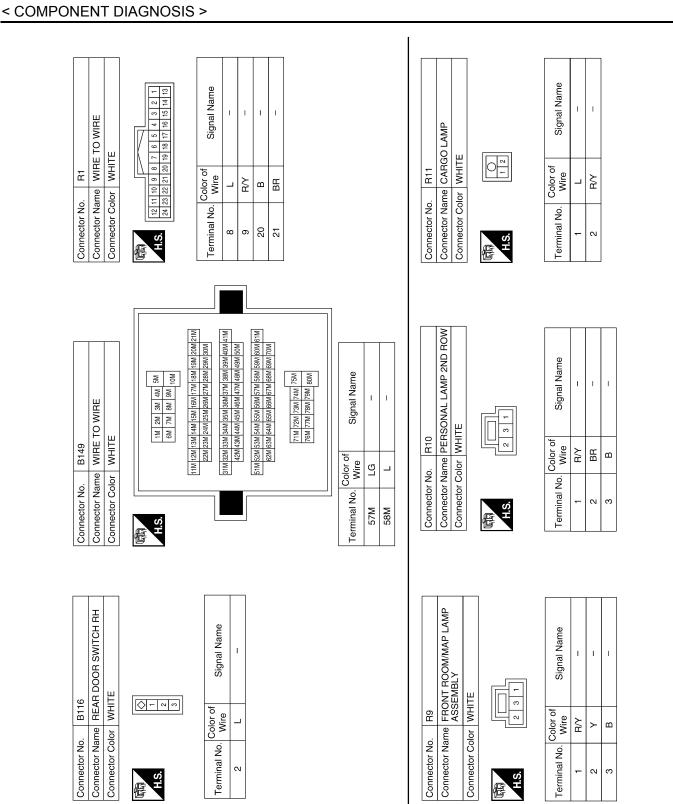


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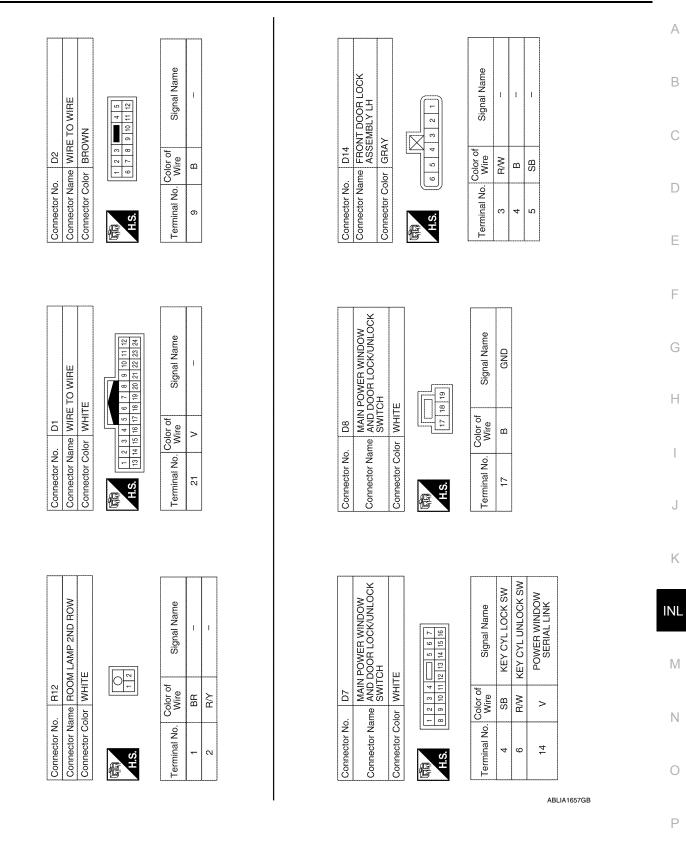
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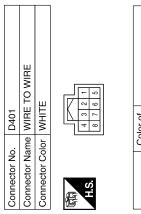
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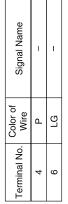
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POWER WINDOW SERIAL LINK

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POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH	VHITE	2 3 4 5 6 7 9 10 11 12 13 14 15 16	of Signal Name	Ģ
-	lor V	8 9 10 8 10	Color of Wire	2
Connector Name	Connector Color WHITE	日 日 日 日 日 日	Terminal No.	Ţ

D105

Connector No.

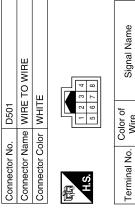
Connector Name WIRE TO WIRE

Connector No. D101

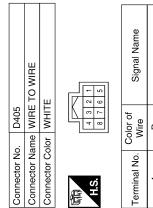
Connector Color WHITE

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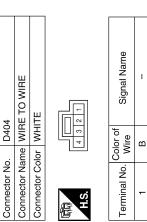
1 1 1 0 0 0 0 0	Signal Name	I	I
° / o	Color of Wire	>	В
H.S.	Terminal No. Wire	5	12



Signal Nam	-	I
Color of Wire	Ч	ГG
Terminal No.	4	9

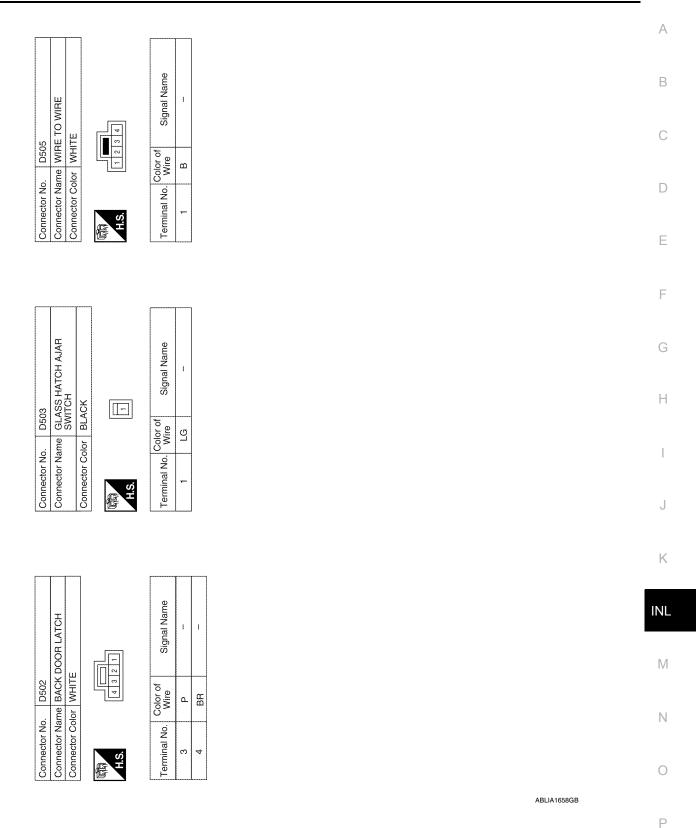


Signal Name	I	-	
Color of Wire	Ч	ГG	
Terminal No.	4	9	





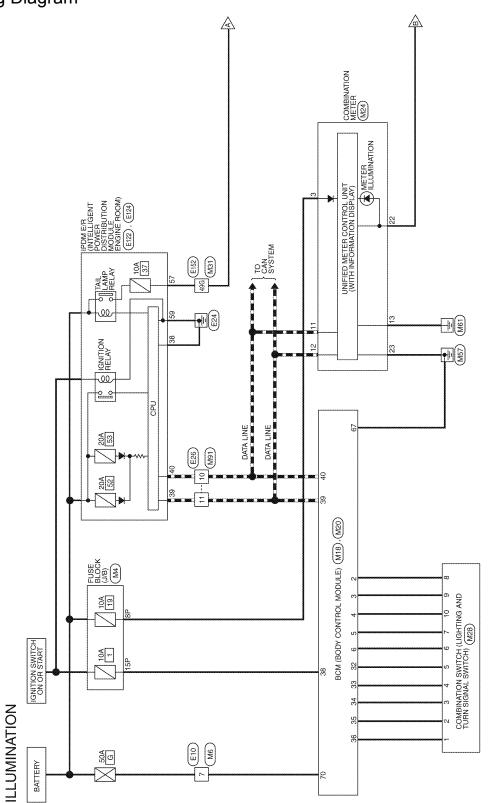
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ILLUMINATION

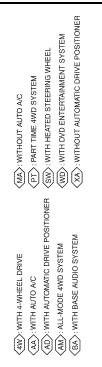


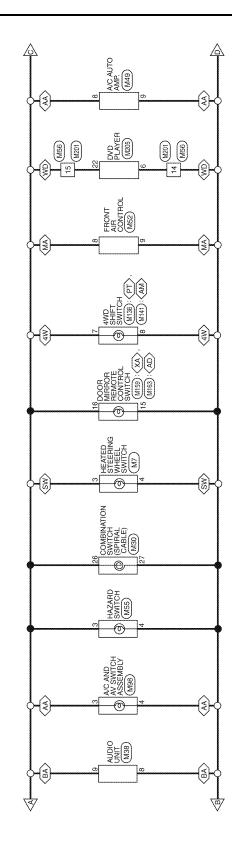




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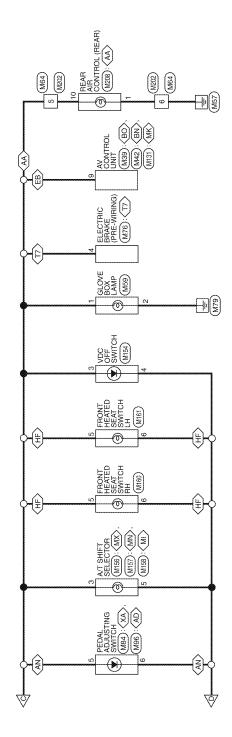
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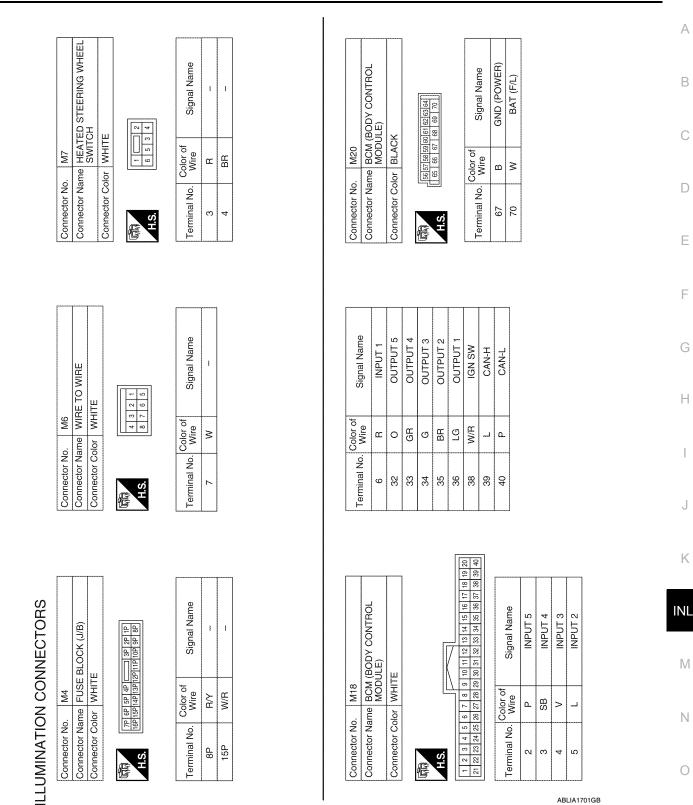
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< COMPONENT DIAGNOSIS >

AA : WITH AUTO A/C	AD : WITH AUTOMATIC DRIVE POSITIONER	AN : WITH ADJUSTABLE PEDALS	BN : WITH BOSE AUDIO SYSTEM, WITHOUT NAVI	BOD : WITH BOSE AUDIO SYSTEM, WITH NAVI	EB) : EXCEPT BASE AUDIO SYSTEM	HF : WITH FRONT HEATED SEATS	MID: WITH MANUAL MODE SWITCH	MK >: WITH MID AUDIO SYSTEM	MN : WITH MANUAL MODE SWITCH, WITHOUT INTELLIGENT KEY SYSTEM	MX : WITHOUT MANUAL MODE SWITCH	T7) : TRAILER TOW 7 PIN	XA) : WITHOUT AUTOMATIC DRIVE POSITIONER	
Ä	ä	Ä	Ä	ä	Ä	Ä	Ä	Ä	Ä	ä	Ä	Ä	
I	IN	12	100	M	111	主	Z	2	Ī	S	IFI	1×1	

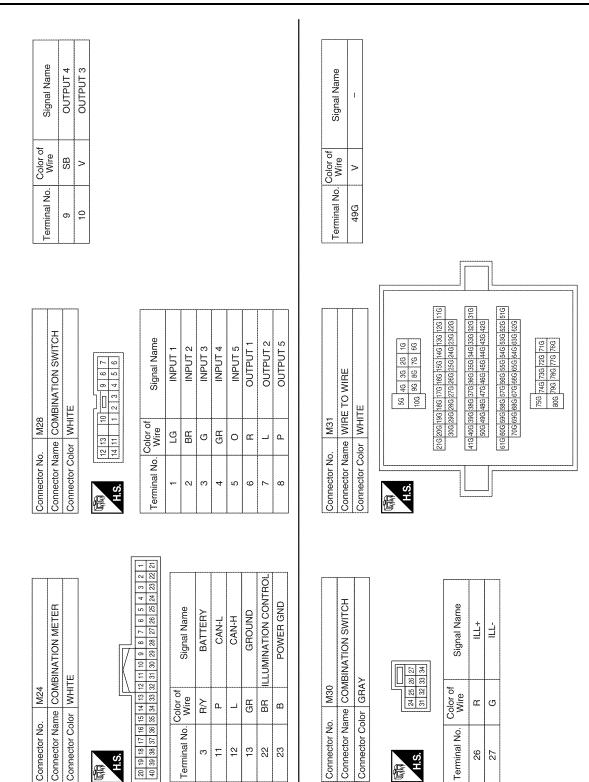


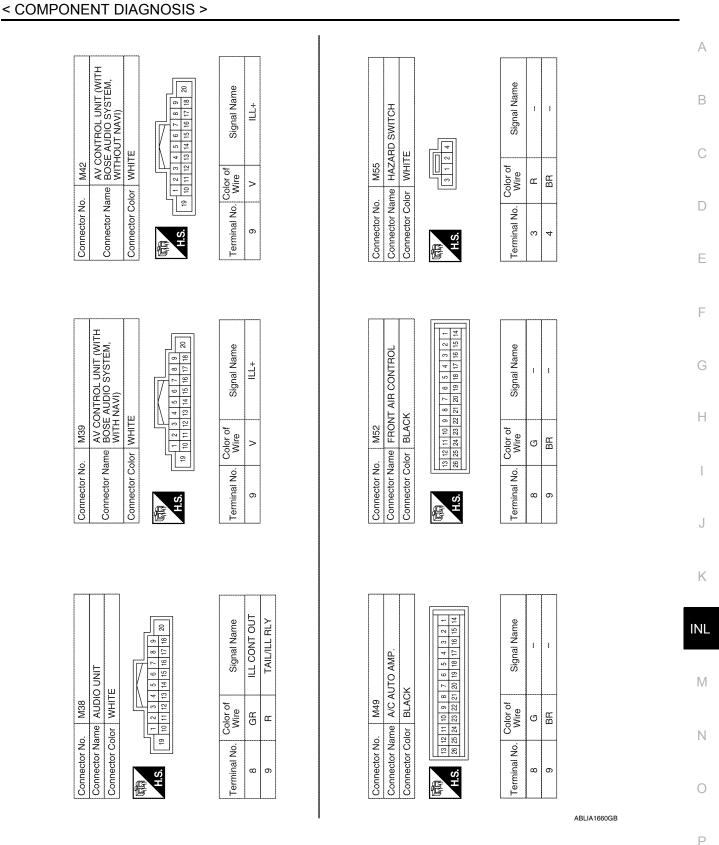
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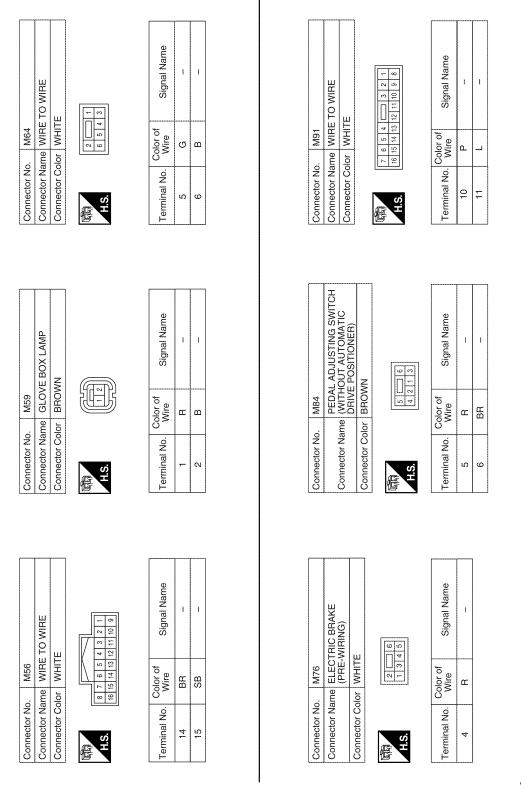
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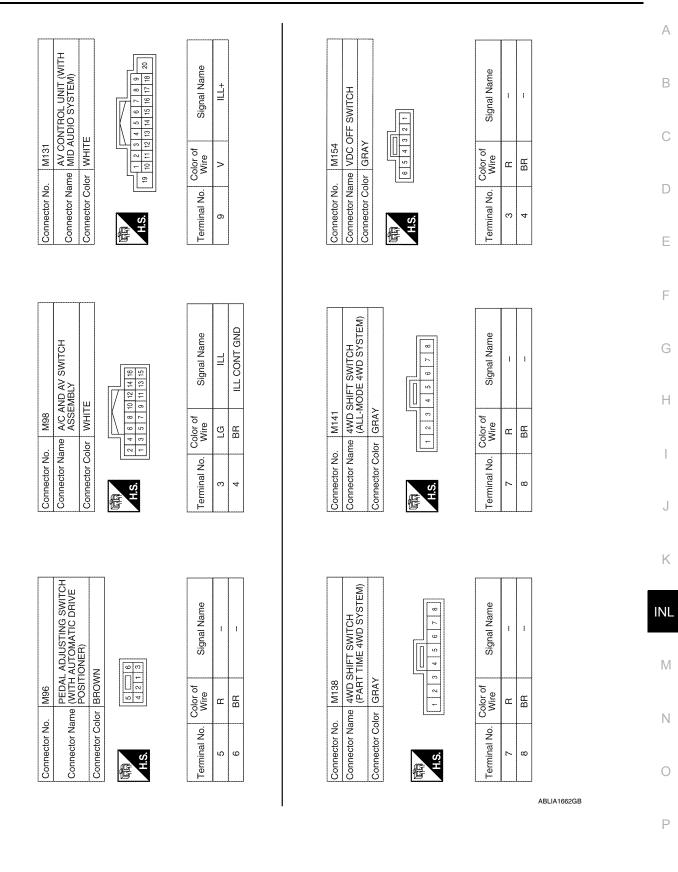




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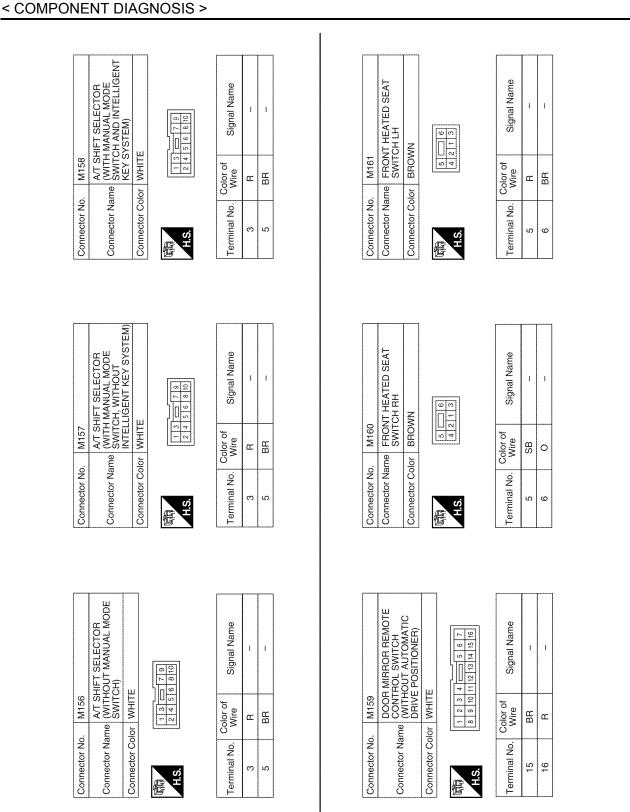


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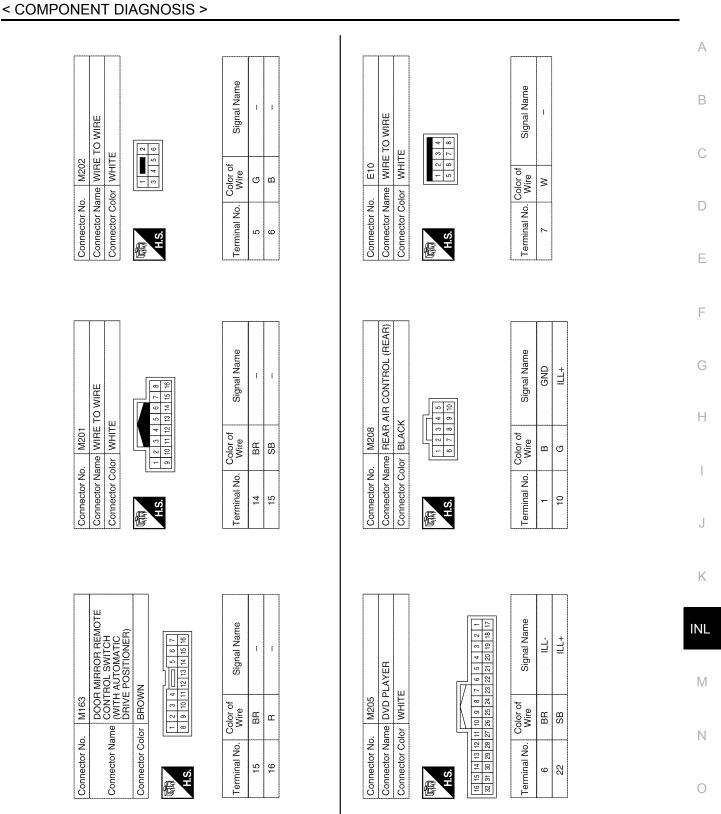
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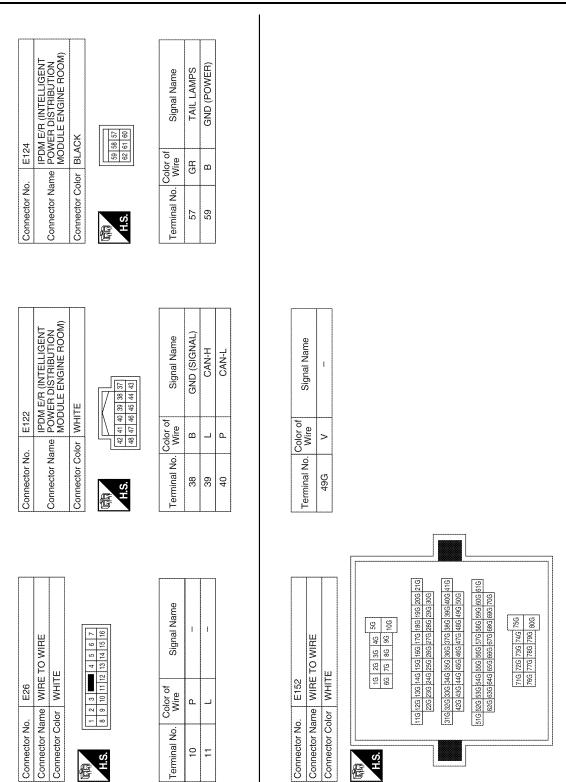
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ILLUMINATION

Revision: July 2009



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ILLUMINATION

< COMPONENT DIAGNOSIS >

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< ECU DIAGNOSIS >

ECU DIAGNOSIS BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
	A/C switch OFF	OFF	
AIR COND SW	A/C switch ON	ON	[
	Outside of the room is dark	OFF	
AUT LIGHT SYS	Outside of the room is bright	ON	
	Lighting switch OFF	OFF	t
AUTO LIGHT SW	Lighting switch AUTO	ON	
BACK DOOR SW	Back door closed	OFF	F
BACK DOOR SW	Back door opened	ON	
	Door lock/unlock switch does not operate	OFF	
CDL LOCK SW	Press door lock/unlock switch to the LOCK side	ON	(
CDL UNLOCK SW	Door lock/unlock switch does not operate	OFF	
CDL UNLOCK SW	Press door lock/unlock switch to the UNLOCK side	ON	ŀ
	Front door RH closed	OFF	
DOOR SW-AS	Front door RH opened	ON	
	Front door LH closed	OFF	
DOOR SW-DR	Front door LH opened	ON	
	Rear door LH closed	OFF	
DOOR SW-RL	Rear door LH opened	ON	
	Rear door RH closed	OFF	
DOOR SW-RR	Rear door RH opened	ON	ł
	Engine stopped	OFF	
ENGINE RUN	Engine running	ON	IN
	Front fog lamp switch OFF	OFF	
FR FOG SW	Front fog lamp switch ON	ON	
	Front washer switch OFF	OFF	N
FR WASHER SW	Front washer switch ON	ON	
	Front wiper switch OFF	OFF	
FR WIPER LOW	Front wiper switch LO	ON	- F
	Front wiper switch OFF	OFF	
FR WIPER HI	Front wiper switch HI	ON	(
	Front wiper switch OFF	OFF	
FR WIPER INT	Front wiper switch INT	ON	
	Any position other than front wiper stop position	OFF	F
FR WIPER STOP	Front wiper stop position	ON	
	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	
	Lighting switch OFF	OFF	
LIGHT SW 1ST	Lighting switch 1st	ON	

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< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
HEAD LAMP SW1	Headlamp switch OFF	OFF
TIEAD LAWF SWI	Headlamp switch 1st	ON
HEAD LAMP SW2	Headlamp switch OFF	OFF
TILAD LANII SWZ	Headlamp switch 1st	ON
HI BEAM SW	High beam switch OFF	OFF
	High beam switch HI	ON
IGN ON SW	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
IGN SW CAN	Ignition switch OFF or ACC	OFF
	Ignition switch ON	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY LOCK ¹	LOCK button of Intelligent Key is not pressed	OFF
I-KEY LUCK	LOCK button of Intelligent Key is pressed	ON
	UNLOCK button of Intelligent Key is not pressed	OFF
I-KEY UNLOCK ¹	UNLOCK button of Intelligent Key is pressed	ON
	Mechanical key is removed from key cylinder	OFF
KEY ON SW	Mechanical key is inserted to key cylinder	ON
	LOCK button of key fob is not pressed	OFF
KEYLESS LOCK ²	LOCK button of key fob is pressed	ON
KEN/ E00 LINH 0.01/2	UNLOCK button of key fob is not pressed	OFF
KEYLESS UNLOCK ²	UNLOCK button of key fob is pressed	ON
OIL PRESS SW	Ignition switch OFF or ACC Engine running	OFF
	Ignition switch ON	ON
	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
1	Return to ignition switch to LOCK position	OFF
PUSH SW ¹	Press ignition switch	ON
	Rear window defogger switch OFF	OFF
REAR DEF SW	Rear window defogger switch ON	ON
	Rear washer switch OFF	OFF
RR WASHER SW	Rear washer switch ON	ON
	Rear wiper switch OFF	OFF
RR WIPER INT	Rear wiper switch INT	ON
	Rear wiper switch OFF	OFF
RR WIPER ON	Rear wiper switch ON	ON
	Rear wiper stop position	OFF
RR WIPER STOP	Other than rear wiper stop position	ON
	Lighting switch OFF	OFF
TAIL LAMP SW	Lighting switch 1ST	ON
	When back door opener switch is not pressed	OFF
TRNK OPNR SW	When back door opener switch is pressed	ON
	Turn signal switch OFF	OFF
TURN SIGNAL L	Turn signal switch LH	ON

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
TURN SIGNAL R	Turn signal switch OFF	OFF	А
TURN SIGNAL R	Turn signal switch RH	ON	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	В

1: With Intelligent Key

2: With remote keyless entry system

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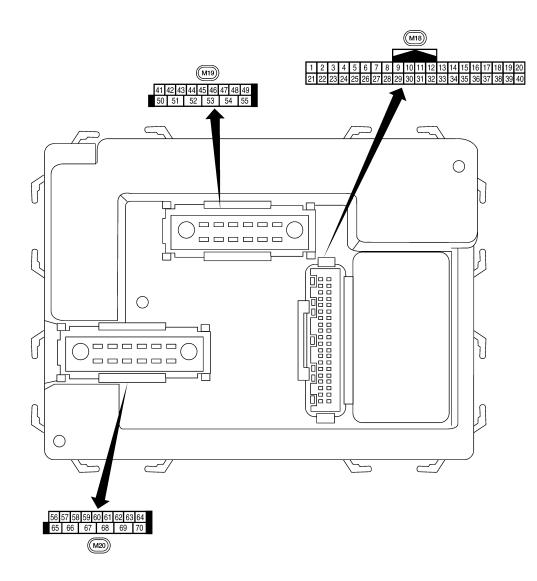
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< ECU DIAGNOSIS >



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Physical Values

< ECU DIAGNOSIS >

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
1	BR	Ignition keyhole illumi-	Output	OFF	Door is locked (SW OFF)	Battery voltage
I	DIX	nation	Ουιραι		Door is unlocked (SW ON)	0V
2	Ρ	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 • • 5 ms SKIA5291E
3	SB	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 4 0 + 5ms SKIA5292E
4	V	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 • • 5 ms SKIA5291E
5	L	Combination switch input 2				(V)
6	R	Combination switch input 1	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	6 2 0 •••5ms SKIA5292E
9	Y	Rear window defogger	Input	ON	Rear window defogger switch ON	0V
5		switch	por		Rear window defogger switch OFF	5V
11	G/B	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	LG	Front door switch RH	Input	OFF	ON (open)	0V
	-				OFF (closed)	Battery voltage
13	L	Rear door switch RH	Input	OFF	ON (open)	0V
15	W	Tire pressure warning check connector	Input	OFF	OFF (closed)	Battery voltage 5V
18	BR	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	_	0V

< ECU DIAGNOSIS >

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
19	V	Remote keyless entry receiver (power sup- ply)	Output	OFF	Ignition switch OFF	(V) 4 2 0 + 50 ms LIIA1893E
20	G	Remote keyless entry	Input	OFF	Stand-by (keyfob buttons re- leased)	(V) 6 4 2 0 • • • • 50 ms LIIA1894E
20	0	receiver (signal)	mpar		When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	(V) 6 4 2 0 • • • 50 ms LIIA1895E
21	GR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
22	V	BUS	_	_	Ignition switch ON or power window timer operates	(V) 15 10 5 0 200 ms PIIA2344E
23	G	Security indicator lamp	Output	OFF	Goes OFF \rightarrow illuminates (Every 2.4 seconds)	Battery voltage \rightarrow 0V
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF \rightarrow ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
27	W	Compressor ON sig-	Input	ON	A/C switch OFF	5V
21	vv	nal	Input		A/C switch ON	0V
28	LG	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
					Front blower motor ON	0V
29	G	Hazard switch	Input	OFF	ON	0V
					OFF	5V 0V
30 ¹	G	Back door opener switch	Input	OFF	ON (open) OFF (closed)	Battery voltage
		Back door opener			ON (open)	OV
30 ²			Input	OFF		

< ECU DIAGNOSIS >

	Wire		Signal		Measuring condition	Reference value or waveform
Terminal	color	Signal name	input/ output	Ignition switch	Operation or condition	(Approx.)
32	0	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 2 0 ++5ms SKIA5291E
33	GR	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 2 0 + 5ms SKIA5292E
34	G	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	(V) 6 4 2 0 •••5ms SKIA5291E
35	BR	Combination switch output 2				(V),
36	LG	Combination switch output 1	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	SKIA5292E
37 ¹	В	Key switch and key lock solenoid	Input	OFF	Key inserted Key inserted	Battery voltage 0V
37 ²	В	Key switch and igni- tion knob switch	Input	OFF	Intelligent Key inserted Intelligent Key inserted	Battery voltage 0V
38	W/R	Ignition switch (ON)	Input	ON	_	Battery voltage
39	L	CAN-H	—	_	—	_
40	Ρ	CAN-L	—		_	-
42	LG	Glass hatch ajar switch	Input	ON	Glass hatch open Glass hatch closed	0V Battery voltage
					ON (open)	0V
43	Р	Back door latch switch	Input	OFF	OFF (closed)	Battery voltage

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

	140		Signal		Measuring condition	
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation or condition	Reference value or waveform (Approx.)
					Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	Battery voltage
44	0	Rear wiper auto stop switch	Input	ON	Forward sweep (counterclock- wise direction)	Fluctuating
					B Position (full counterclock- wise stop position)	0V
					Reverse sweep (clockwise di- rection)	Fluctuating
47	GR	Front door switch LH	Input	OFF	ON (open)	0V
	01	Then door owner Err	mpar	011	OFF (closed)	Battery voltage
48	Р	Rear door switch LH	Input	OFF	ON (open)	0V
40			mput	OIT	OFF (closed)	Battery voltage
49	L	Cargo lamp	Output	OFF	Any door open (ON)	0V
49	L	Cargo lamp	Output	OIT	All doors closed (OFF)	Battery voltage
51	0	Trailer turn signal (right)	Output	ON	Turn right ON	(V) 10 50 500 ms 500 ms 500 ms 500 ms 500 ms
52	LG	Trailer turn signal (left)	Output	ON	Turn left ON	(V) 15 10 50 50 500 ms SKIA3009J
52	-	Back door latch actua-	Output		OFF	0
53	L	tor	Output	OFF	ON	Battery voltage
55	W	Rear wiper output cir-	Output	ON	OFF	0
55	vv	cuit 1	Output	ON	ON	Battery voltage
56	R/Y	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF	0V
				ON	_	Battery voltage
57	R/Y	Battery power supply	Input	OFF	_	Battery voltage
58	W	Optical sensor	Input	ON	When optical sensor is illumi- nated	3.1V or more
	~~		mpat		When optical sensor is not illu- minated	0.6V or less
E0		Front door lock as-	<u> </u>		OFF (neutral)	0V
59	GR	sembly LH actuator (unlock)	Output	OFF	ON (unlock)	Battery voltage

< ECU DIAGNOSIS >

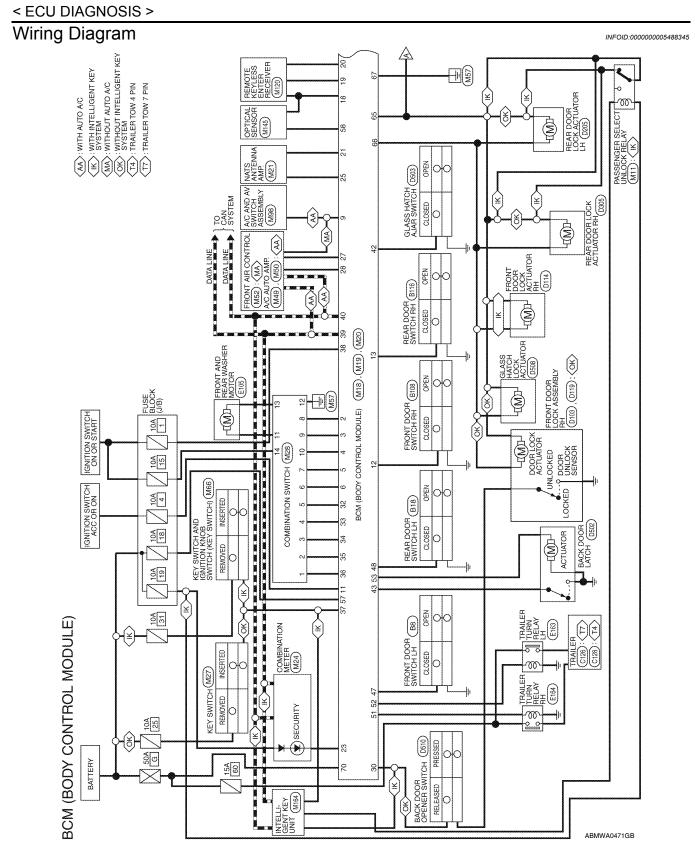
	14/1-1		Signal		Measuring con	dition	Reference value or waveform				
Terminal	Wire color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)				
60	LG	Turn signal (left)	Output	ON	Turn left ON		(V) 15 10 5 0 5 5 0 5 5 0 5 5 0 5 5 5 0 5 5 5 5				
61	G	Turn signal (right)	Output	ON	Turn right ON		(V) 15 0 5 0 500 ms 500 ms 500 ms 500 ms 500 ms				
63	BR	Interior room/map	Output	OFF	Any door	ON (open)	0V				
		lamp			switch	OFF (closed)	Battery voltage				
65	V	All door lock actuators	Output	OFF	OFF (neutral)		0V				
		(lock)			ON (lock)		Battery voltage				
66	L	Front door lock actua- tor RH, rear door lock actuators LH/RH and glass hatch lock actu- ator (unlock)	Output	OFF	OFF (neutral) ON (unlock)		0V Battery voltage				
67	В	Ground	Input	ON	-		0V				
					Ignition switch	ON	Battery voltage				
					Within 45 seco tion switch OF		Battery voltage				
68	0	Power window power supply (RAP)	Output	_	More than 45 s nition switch C	econds after ig- PFF	0V				
					When front do open or power operates		0V				
69	L	Power window power supply	Output	_	-	_	Battery voltage				
70	W	Battery power supply	Input	OFF	-	_	Battery voltage				

1: With remote keyless entry system

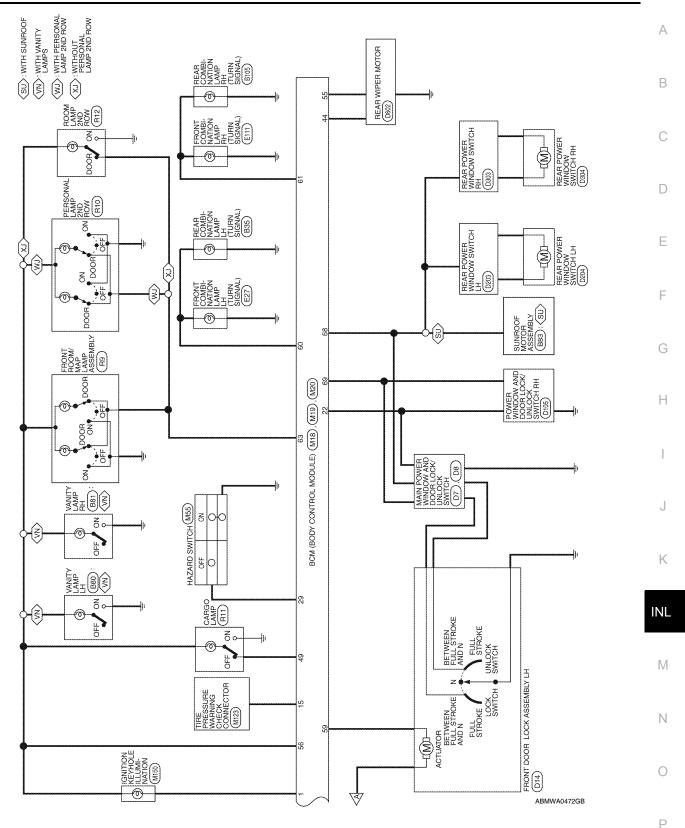
2: With Intelligent Key system

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Signal Name	IMMOBILIZER ANTENNA SIGNAL (TX,RX)	1	AIRCON SW	BLOWER FAN SW	HAZARD SW	BACK DOOR AUTO CLOSURE (WITH INTELLIGENT KEY SYSTEM)	LIFTGATE OPENER SW (WITHOUT INTELLIGENT KEY SYSTEM)		OUTPUT 5	OUTPUT 4	OUTPUT 3	OUTPUT 2	OUTPUT 1	KEY SW	IGN SW	CAN-H	CAN-L	Signal Name	TRAILER FLASHER OUTPUT (LEFT)	LIFTGATE OPENER OUTPUT	1	REAR WIPER MOTOR OUTPUT1
Color of Wire	BR	I	X	ГG	σ	SB	IJ	I	0	GR	g	ВВ	ГG	в	W/R	ш	٩	 Wire	ГG	- -	1	M
Terminal No.	25	26	27	28	29	30	30	31	32	33	34	35	36	37	38	39	40	Terminal No.	52	53	54	55

	Signal Name	ACC SW	DOOR SW (AS)	DOOR SW (RR)	1	TPMS MODE TRIGGER SW	1	3	KEYLESS AND AUTOLIGHT SENSOR GND	KEYLESS TUNER POWER SUPPLY OUTPUT	KEYLESS TUNER SIGNAL	IMMOBILIZER ANTENNA SIG (CLOCK)	ANTI-PINCH SERIAL LINK (RX,TX)	SECURITY INDICATOR OUTPUT	Signal Name	REAR WIPER AUTO STOP SW1	3	m	DOOR SW (DR)	DOOR SW (RL)	LUGGAGE LAMP OUTPUT
	Color of Wire	G/B	ГG	-	ı	×	1	1	ВВ	>	U	GR	>	σ	Color of Wire	0	I	1	GR	٩	<u>ب</u>
0HD	Terminal No.	=	42	13	14	15	16	17	18	19	20	5	22	23	Terminal No.	44	45	46	47	48	49

BCM (BODY CONTROL MODULE) CONNECTORS

Connector No.	M18
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color	WHITE



F			-
	20	40	
	19	39 40	
	18	38	
	17	37 38	
	16	36	
	15	35	
	9 10 11 12 13 14 15 16 17 18 19 20	30 31 32 33 34 35	
	13	33	
17	12	32	
W	Ξ	31	
IN	10	30	
$ \rangle$	6	29	
4	œ	28	
	7	27	
	9	26 27 28	
	5 6	25	
	4	24 25	
	e	23	
	2 3	22 23	
	-	5	

Signal Name	KEY RING OUTPUT	INPUT 5	INPUT 4	INPUT 3	INPUT 2	INPUT 1	I	w	REAR DEFOGGER SW	a a a	
Color of Wire	BR	٩	SB	>	ш.	æ	I	I	Y	1	
Terminal No.		2	e	4	ß	9	7	ω	6	10	

	[]		
M19	BCM (BODY CONTROL MODULE)	WHITE	[41 42 43 44 45 46 47 48 49]
Connector No.	Connector Name	Connector Color WHITE	Æ

	,			
41 42 43 44 45 46 47 48 49	Signal Name	T	GLASS HATCH SW	BACK DOOR SW
	Color of Wire	I	ГG	٩
同间 H.S.	Terminal No.	41	42	43

ABMIA1287GB

TRAILER FLASHER OUTPUT (RIGHT)

0 1

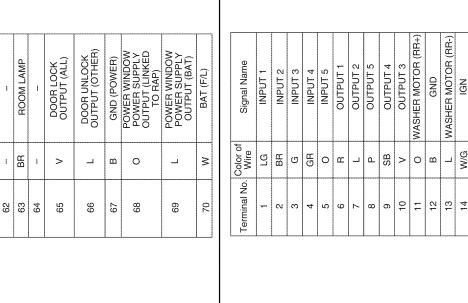
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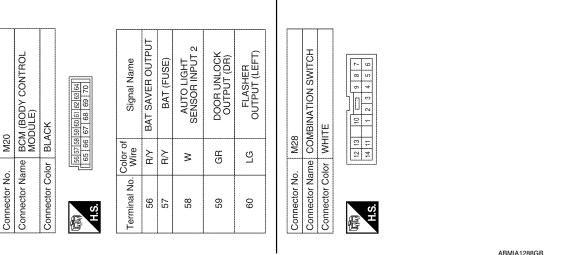
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BCM (BODY CONTROL MODULE)						
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< ECU DIAGNOSIS >





DTC Inspection Priority Chart

FLASHER OUTPUT (RIGHT)

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Signal Name

Color of Wire

Terminal No.

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

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Priority	DTC
1	U1000: CAN COMM CIRCUIT
2	 B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2013: STRG COMM 1 B2552: INTELLIGENT KEY B2590: NATS MALFUNCTION
3	C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL
4	 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] RR C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FL C1718: [PRESSDATA ERR] FR C1719: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] FR C1720: [CODE ERR] FR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR

DTC Index

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1
 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter
 remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch
 OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_
U1000: CAN COMM CIRCUIT	—	—		BCS-33
B2013: STRG COMM 1	—	—	—	<u>SEC-29</u>
B2190: NATS ANTENNA AMP	_	_	_	<u>SEC-32</u> (with I- Key), <u>SEC-136</u> (without I-Key)

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< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	А
B2191: DIFFERENCE OF KEY	_	_	_	<u>SEC-35</u> (with I- Key), <u>SEC-139</u> (without I-Key)	В
B2192: ID DISCORD BCM-ECM	_	_	_	<u>SEC-36</u> (with I- Key), <u>SEC-140</u> (without I-Key)	С
B2193: CHAIN OF BCM-ECM	_	_	_	<u>SEC-38</u> (with I- Key), <u>SEC-142</u> (without I-Key)	D
B2552: INTELLIGENT KEY	_	—	_	<u>SEC-40</u>	-
B2590: NATS MALFUNCTION	_	—	_	<u>SEC-41</u>	E
C1708: [NO DATA] FL	_	—	_	<u>WT-14</u>	
C1709: [NO DATA] FR	_	—	—	<u>WT-14</u>	-
C1710: [NO DATA] RR	_	—	—	<u>WT-14</u>	F
C1711: [NO DATA] RL	_	—	—	<u>WT-14</u>	-
C1712: [CHECKSUM ERR] FL	_	—	—	<u>WT-16</u>	0
C1713: [CHECKSUM ERR] FR	_	—	—	<u>WT-16</u>	G
C1714: [CHECKSUM ERR] RR	_	—	—	<u>WT-16</u>	-
C1715: [CHECKSUM ERR] RL	_	—	—	<u>WT-16</u>	Н
C1716: [PRESSDATA ERR] FL	_	_	_	<u>WT-18</u>	-
C1717: [PRESSDATA ERR] FR	_	_	—	<u>WT-18</u>	-
C1718: [PRESSDATA ERR] RR	_	_	—	<u>WT-18</u>	
C1719: [PRESSDATA ERR] RL	_	_	—	<u>WT-18</u>	-
C1720: [CODE ERR] FL	_	—	—	<u>WT-16</u>	J
C1721: [CODE ERR] FR	_	—	—	<u>WT-16</u>	-
C1722: [CODE ERR] RR	_	_	—	<u>WT-16</u>	-
C1723: [CODE ERR] RL	_	—	—	<u>WT-16</u>	K
C1724: [BATT VOLT LOW] FL	_	—	—	<u>WT-16</u>	
C1725: [BATT VOLT LOW] FR	_	—	—	<u>WT-16</u>	INL
C1726: [BATT VOLT LOW] RR	_	—	—	<u>WT-16</u>	
C1727: [BATT VOLT LOW] RL	_	—	—	<u>WT-16</u>	-
C1729: VHCL SPEED SIG ERR	_	_	—	<u>WT-19</u>	M
C1735: IGNITION SWITCH	_	—	—	—	-

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< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

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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 of the following lamps do not turn ON Front room/map lamp assembly Personal lamp 2nd row (with personal lamp 2nd row) Room lamp 2nd row (without personal lamp 2nd row) Cargo room lamp Vanity mirror lamps (if equipped) Ignition keyhole illumination 	 Harness between BCM and each interior room lamp Harness between BCM and each door switch BCM 	Battery saver output/power supply cir- cuit Refer to <u>INL-17</u> .
Some or all of the following interior room lamps do not turn ON/OFF • Front room/map lamp assembly • Personal lamp 2nd row (with personal lamp 2nd	 Harness between BCM and each interior room lamp 	Door switch circuit Refer to $\underline{DLK-55}$ (with Intelligent Key system) or $\underline{DLK-226}$ (without Intelligent Key system).
 Room lamp 2nd row (without personal lamp 2nd row) 	• BCM	Interior room lamp control circuit Refer to INL-19.
Cargo lamp does not turn ON/OFF	 Harness between BCM and cargo lamp BCM 	Cargo lamp circuit Refer to <u>INL-21</u> .
Ignition keyhole illumination does not turn ON/OFF	 Harness between BCM and cargo lamp BCM 	Ignition keyhole illumination circuit Refer to INL-23
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-12, "INT LAMP : CON-</u> <u>SULT-III Function (BCM - INT LAMP)"</u> .
Interior room lamp battery saver does not activate.	_	Check the interior room lamp battery saver setting. Refer to INL-13, "BATTERY SAVER : <u>CONSULT-III Function (BCM - BAT- TERY SAVER)"</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 SR and SB section 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 SR section.
- 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 Airbag Diagnosis Sensor Unit or other Airbag 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.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

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NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYS-TEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both battery cables.
 NOTE:
 Supply power using import cables if bottony is discharge.

Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-III.

General precautions for service operations

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- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If an non-reuseable part is removed, replace it with a new one.
- After re-assembly has been completed, make sure each part functions correctly.
- · Never work with wet hands.
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps or remove sealant residue.

ON-VEHICLE REPAIR INTERIOR ROOM LAMP

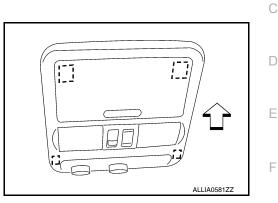
Removal and Installation

FRONT ROOM/MAP LAMP

Removal

The front room/map lamp is replaced as part of the overhead console assembly. Refer to <u>INT-19</u>, "<u>Removal and Installation</u>".

C: Vehicle front



Installation

Installation is in the reverse order of removal.

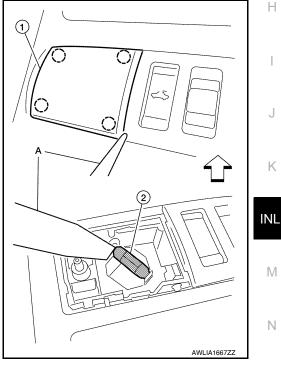
Bulb Replacement

- 1. Using a suitable tool (A), remove front room/map lamp lens (1).
 - CAUTION:

Wrap a cloth around tool to protect the housing and lens.

2. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Map lamp bulb : 12V - 8W



VANITY MIRROR LAMP (if equipped)

Removal

В

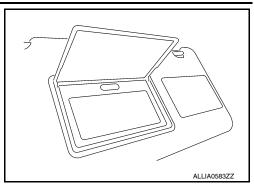
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INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to <u>INT-19</u>, "Removal and Installation".



Installation Installation is in the reverse order of removal.

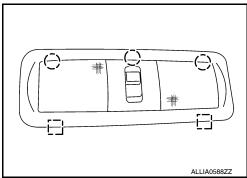
Bulb Replacement

The vanity mirror lamp bulb is replaced as part of the sunvisor assembly. Refer to <u>INT-19</u>, "Removal and <u>Installation</u>".

PERSONAL LAMP (if equipped)

Removal

- 1. Release the clips and remove personal lamp from headlining. Refer to <u>INT-19, "Removal and Installation"</u>.
 - (_): **Pawl**
 - : Metal clip
- 2. Disconnect personal lamp electrical connector, then remove from overhead console.



Installation Installation is in the reverse order of removal.

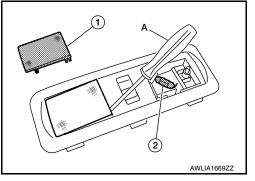
Bulb Replacement

- 1. Remove personal lamp.
- Using a suitable tool (A), release the pawls and remove personal lamp lens (1).
 CAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Personal lamp bulb : 12V - 8W



ROOM LAMP (if equipped)

Removal

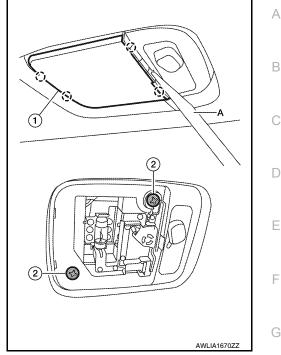
INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
 (): Pawl CAUTION:

Wrap a cloth around tool to protect the housing and lens.

- 2. Remove cargo lamp screws (2).
- 3. Disconnect the connector, then remove cargo lamp.



Installation

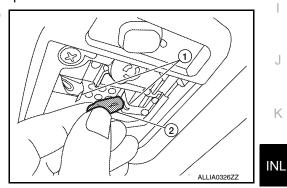
Installation is in the reverse order of removal.

Bulb Replacement

- 1. Using a suitable tool, release the pawls and remove the cargo lamp lens.
- 2. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.

Room lamp bulb

: 12V - 8W



CARGO LAMP

Removal

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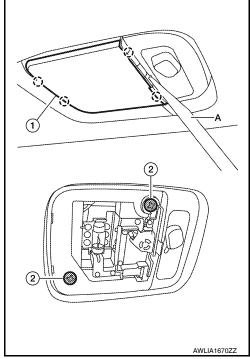
INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

 Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
 (⁻): Pawl CAUTION:

Wrap a cloth around tool to protect the housing and lens.

- 2. Remove cargo lamp screws (2).
- 3. Disconnect the connector, then remove cargo lamp.



Installation

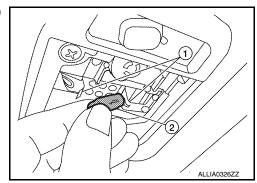
Installation is in the reverse order of removal.

Bulb Replacement

- 1. Using a suitable tool, release the pawls and remove the cargo lamp lens.
- 2. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.

Cargo lamp bulb

: 12V - 8W



< ON-VEHICLE REPAIR >

ILLUMINATION

Removal and Installation

ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to <u>MWI-96, "Removal and Installation"</u>.

60 80 40 MPH 100 20 40. * km/h 160 120 - 140 -

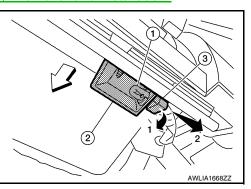
Installation

Installation is in the reverse order of removal.

GLOVE BOX LAMP

Removal

- 1. Remove lower instrument panel RH and glove box. Refer to IP-12, "Removal and Installation".
- 2. Rotate glove box lamp socket (3) with bulb (1) counterclockwise, then pull away from lamp shield (2) on steering member to remove.
- C: Vehicle front

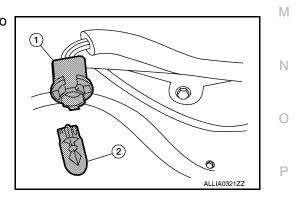


Installation Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove glove box lamp.
- 2. Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W



AT FINISHER LAMP

Removal

1. Remove AT finisher from center console. Refer to IP-12, "Removal and Installation".

2010 Pathfinder

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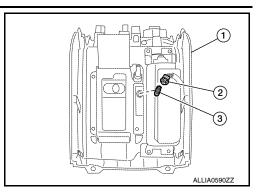
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< ON-VEHICLE REPAIR >

2. Rotate AT finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



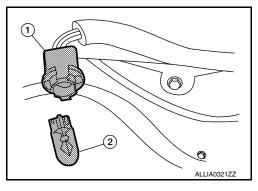
Installation Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove AT finisher from center console. Refer to IP-12, "Removal and Installation".
- 2. Remove AT finisher lamp socket (1), then pull bulb (2) straight out from socket.

AT finisher lamp bulb

: 12V - 3W



BULB SPECIFICATIONS

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SERVICE DATA AND SPECIFICATIONS (SDS) BULB SPECIFICATIONS

Interior Lamp/Illumination

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Item	Wattage (W)*	
Front room/map lamp	8	(
Vanity lamp (if equipped)	*	
Personal lamp (if equipped)	8	
Room lamp (if equipped)	8	
Cargo lamp	8	
Glove box lamp	3.4	E
A/T finisher lamp	3	

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

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