

INL

SECTION

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

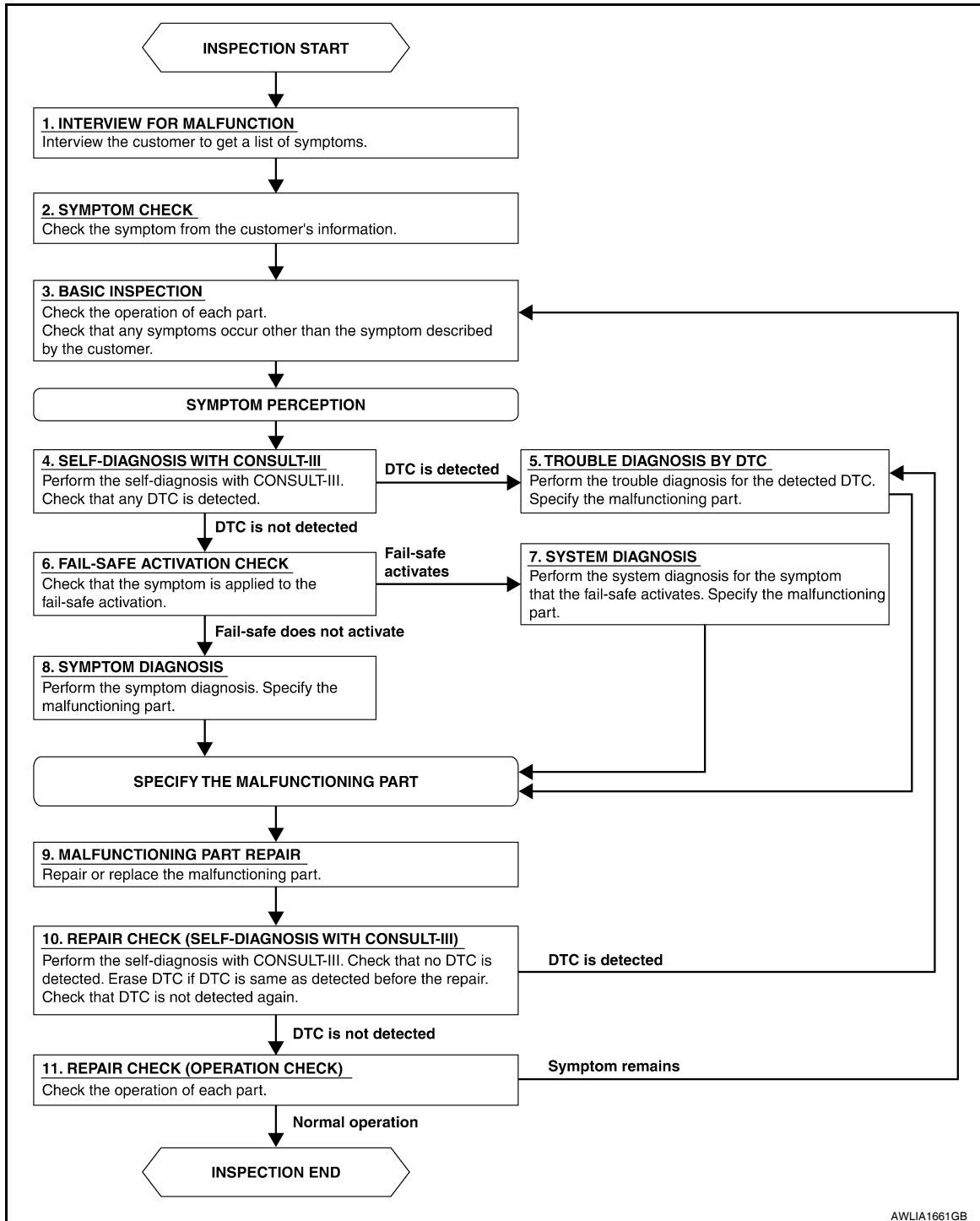
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000005146714

OVERALL SEQUENCE



AWLJA1661GB

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 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. 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

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

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

A

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INTERIOR ROOM LAMP CONTROL SYSTEM

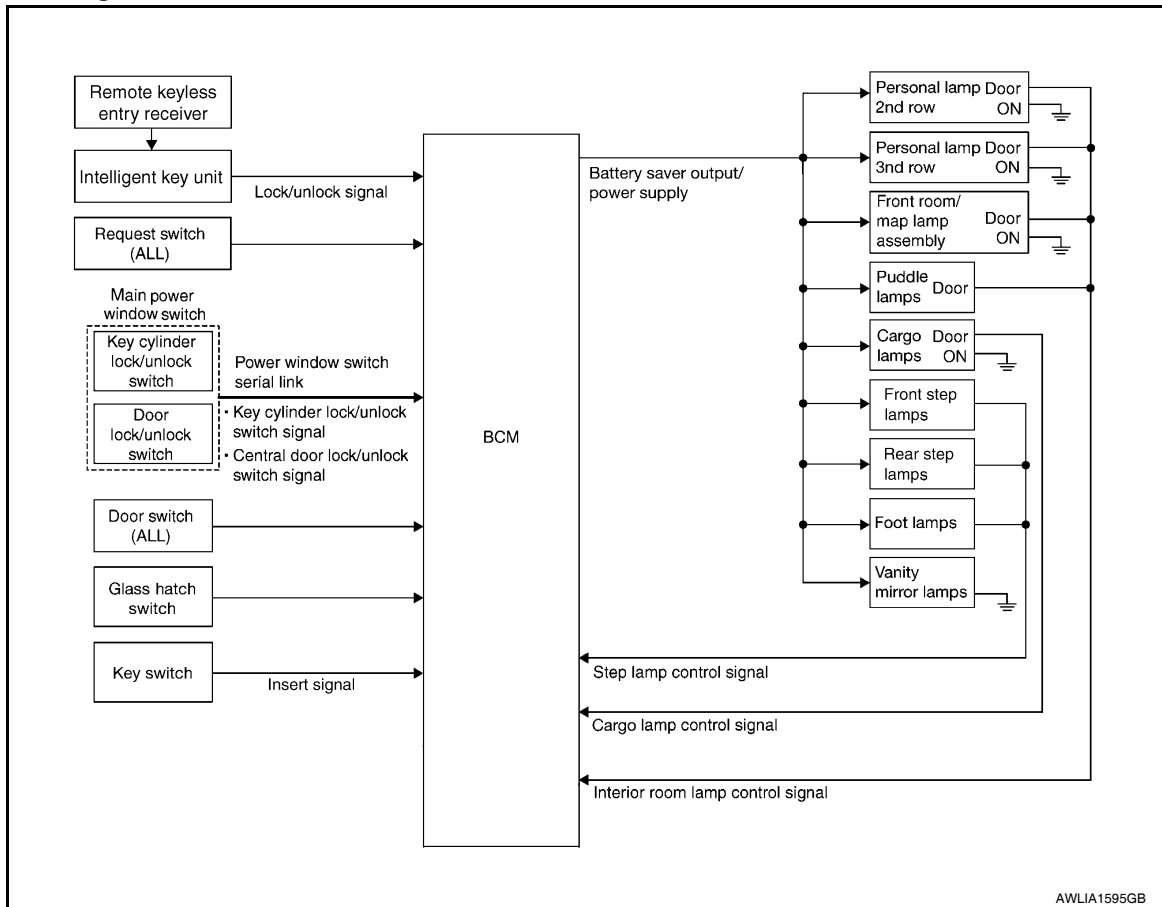
< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:000000005146715



System Description

INFOID:000000005146716

OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
 - *Front room/map lamps, personal lamp 2nd row, personal lamp 3rd row (when lamp switch is in DOOR position) and puddle lamps.
- Cargo lamp is controlled by the cargo lamp control function of the BCM.
- Step lamps* are controlled by the step lamp control function of the BCM.
 - *Front step lamps, rear step lamps and foot lamps.

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 or the key switch and ignition knob switch.

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 → closes and the Intelligent Key is not inserted in the ignition switch.
- 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).
 - Ignition switch is turned ON.

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

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

INTERIOR LAMP BATTERY SAVER CONTROL

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.

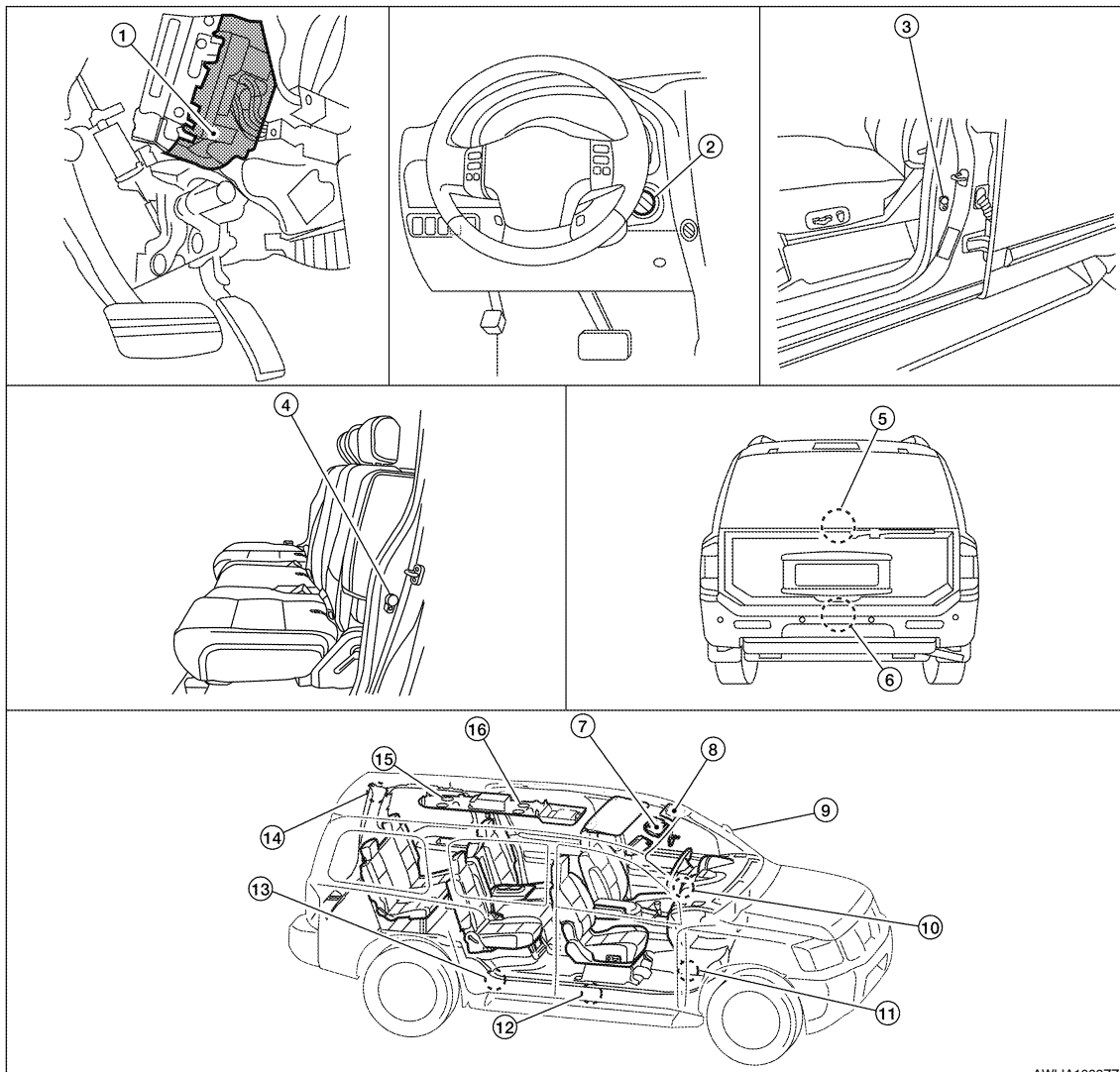
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- 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 ignition switch.

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

Component Parts Location

INFOID:000000005146717



- | | | |
|--|--|---|
| 1. BCM M18, M19, M20 (view with instrument lower panel LH removed) | 2. Key switch and ignition knob switch M12 | 3. Front door switch LH B8
Front door switch RH B108 |
| 4. Rear door switch LH B18
Rear door switch RH B116 | 5. Glass hatch ajar switch D707 | 6. Back door latch (door ajar switch) D503 |
| 7. Front room/map lamp assembly R102 | 8. Vanity lamp LH R3
Vanity lamp RH R8 | 9. Door mirror (puddle lamp) LH D4
Door mirror (puddle lamp) RH D107 |
| 10. Ignition keyhole illumination M150 | 11. Foot lamp LH M99
Foot lamp RH M100 | 12. Front step lamp LH D11
Front step lamp RH D109 |

INTERIOR ROOM LAMP CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

- | | | |
|--|---------------------|--------------------------------|
| 13. Rear step lamp LH D206
Rear step lamp RH D306 | 14. Cargo lamp B153 | 15. Personal lamp 3rd row R205 |
| 16. Personal lamp 2nd row R203 | | |

Component Description

INFOID:000000005146718

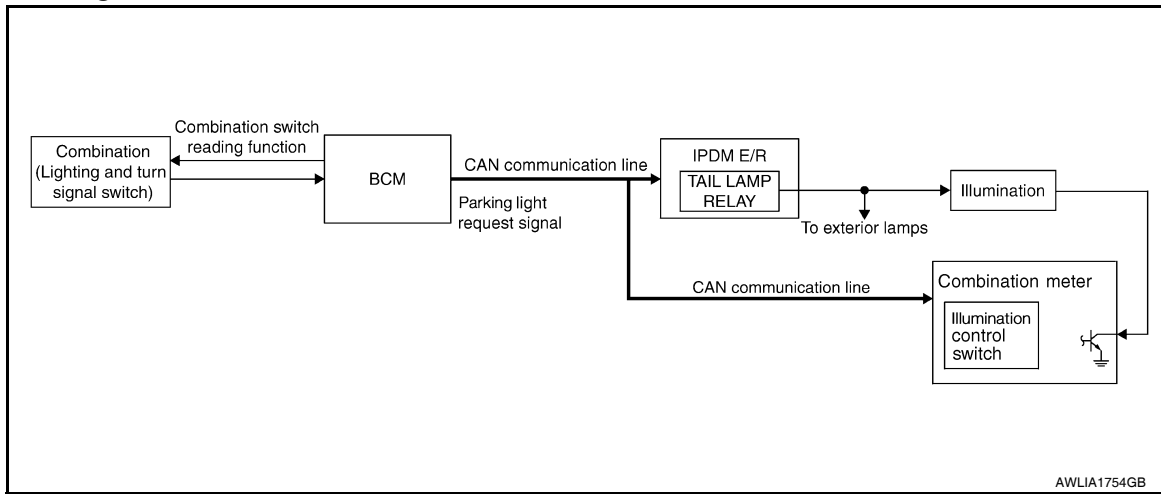
Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamps, step lamps and cargo lamp.
Key switch and ignition knob switch	Provides key in ignition status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Glass hatch switch	Provides glass hatch OPEN/CLOSED status to the BCM.
Back door latch	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 [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

INFOID:000000005358669

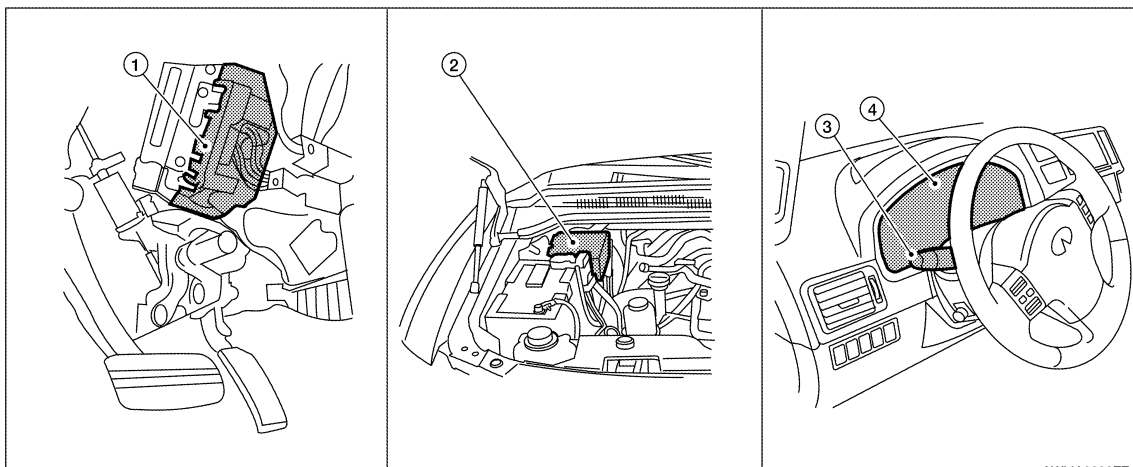
The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives 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 combination switch (lighting and turn signal 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 combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal 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.

Component Parts Location

INFOID:000000005146721



ILLUMINATION CONTROL SYSTEM

< FUNCTION DIAGNOSIS >

1. BCM M18, M20 (view with instrument lower panel LH removed)
2. IPDM E/R E122, E123, E124
3. Combination switch (lighting and turn signal switch) M28
4. Combination meter (illumination control switch) M23, M24

Component Description

INFOID:000000005358670

Part name	Description
BCM	The BCM monitors the lighting switch position with the combination switch reading function. The BCM requests, via CAN communication, 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 received 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 (lighting and turn signal switch)	The combination switch provides input to the BCM about the lighting switch position.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000005356686

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" .
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from BCM.
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	<ul style="list-style-type: none">Enables to read and save the vehicle specification.Enables to 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.

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

INT LAMP

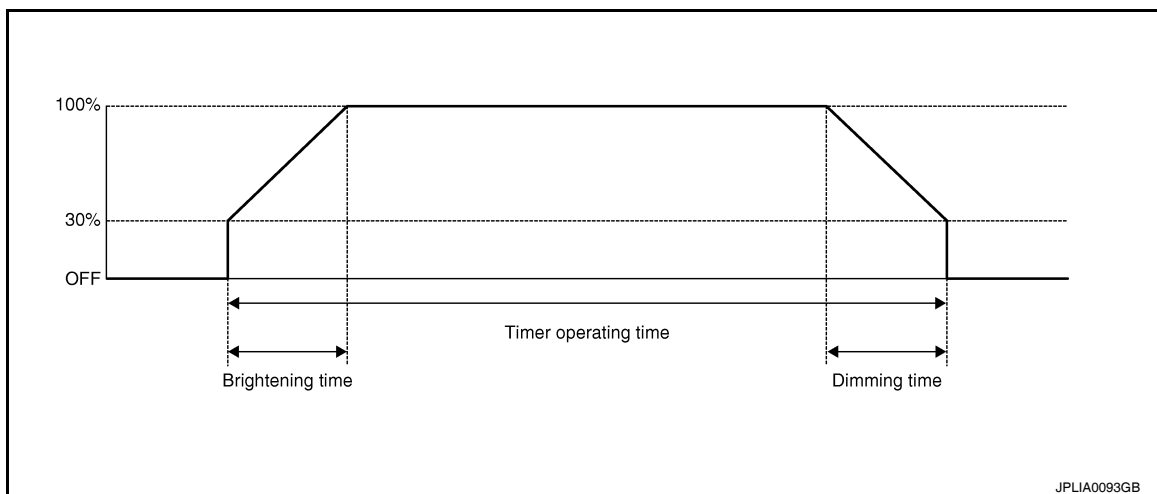
DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

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

INFOID:000000005356687

WORK SUPPORT



Work Item	Setting item	Setting	
SET I/L D-UNLCK INTCON	ON*	With the interior room lamp timer function	
	OFF	Without the interior room lamp timer function	
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2*	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	4 sec.	
	MODE 6	5 sec.	
	MODE 7	0 sec.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4*	3 sec.	
	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
I-KEY LOCK [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication
I-KEY UNLOCK [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication

ACTIVE TEST

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

BATTERY SAVER

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

INFOID:0000000005356711

WORK SUPPORT

Work Item	Setting Item	Setting
ROOM LAMP TIMER SET	MODE 1*	30 min.
	MODE 2	60 min.
	MODE 3	10 min.

*: 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
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 [ON/OFF]	Lock signal status received from Intelligent Key unit by CAN communication
I-KEY UNLOCK [ON/OFF]	Unlock signal status received from Intelligent Key unit by CAN communication

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

ACTIVE TEST

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

*: Each lamp switch is in ON position.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000005356487

Regarding Wiring Diagram information, refer to [BCS-49, "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	22 (15A)
70		F (50A)
11	Ignition ACC or ON	4 (10A)
38	Ignition ON or START	59 (10A)

Is the fuse blown?

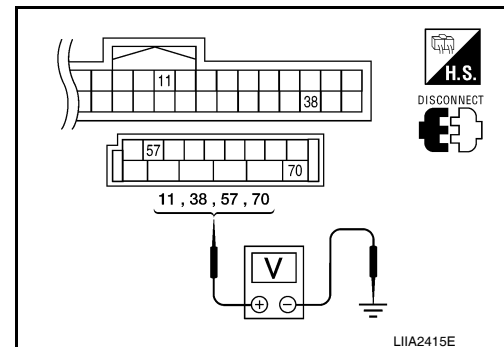
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

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 source	Condition	Voltage (V) (Approx.)
	(+)	(-)			
M18	11	Ground	ACC power supply	Ignition switch ACC or ON	Battery voltage
	38	Ground	Ignition power supply	Ignition switch ON or START	Battery voltage
M20	57	Ground	Battery power supply	Ignition switch OFF	Battery voltage
	70	Ground	Battery power supply	Ignition switch OFF	Battery voltage



Is the measurement value normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

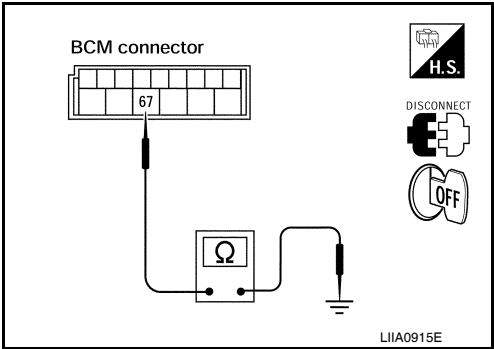
< COMPONENT DIAGNOSIS >

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
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

INFOID:000000005146727

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

Component Function Check

INFOID:000000005146728

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

CONSULT-III

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Front room/map lamp assembly
 - Vanity lamps
 - Personal lamp 2nd row
 - Personal lamp 3rd row
 - Cargo lamp
3. Open the driver door to turn ON the step lamps, foot lamps and puddle lamps.
 - Front step lamps
 - Rear step lamps
 - Foot lamps
 - Puddle lamps
 - Ignition keyhole Illumination
4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
5. While operating the test item, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamps OFF

ON : Interior room lamps ON

Is the inspection result normal?

YES >> Battery saver output/power supply circuit is normal.

NO >> Refer to [INL-17, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005146729

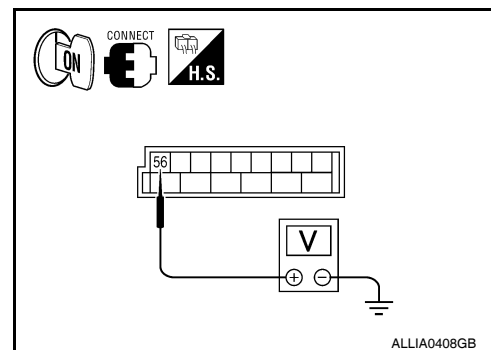
Regarding Wiring Diagram information, refer to [BCS-49, "Wiring Diagram"](#).

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT-III

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

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



Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM. Refer to [BCS-59, "Removal and Installation"](#).

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM M20
 - Ignition keyhole illumination
 - Front step lamp LH
 - Front step lamp RH
 - Door mirror LH
 - Door mirror RH
 - Rear step lamp LH
 - Rear step lamp RH
 - Foot lamp LH
 - Foot lamp RH
 - Front room/map lamp assembly
 - Vanity lamp LH
 - Vanity lamp RH
 - Cargo lamp
 - Personal lamp 2nd row
 - Personal lamp 3rd row
3. Check continuity between BCM connector M20 terminal 56 and each interior room lamp connector.

BCM		Interior room lamp			Continuity
Connector	Terminal	Connector	Terminal	Terminal	
M20	56	Ignition keyhole illumination	M150	1	Yes
		Front step lamp LH	D11	1	
		Front step lamp RH	D109	1	
		Door mirror LH	D4	12	
		Door mirror RH	D107	12	
		Rear step lamp LH	D206	1	
		Rear step lamp RH	D306	1	
		Foot lamp LH	M99	1	
		Foot lamp RH	M100	1	
		Front room/map lamp assembly	R102	6	
		Vanity lamp LH	R3	1	
		Vanity lamp RH	R8	1	
		Cargo lamp	B153	2	
		Personal lamp 2nd row	R203	3	
		Personal lamp 3rd row	R205	3	

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair the harness or connectors.

3.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

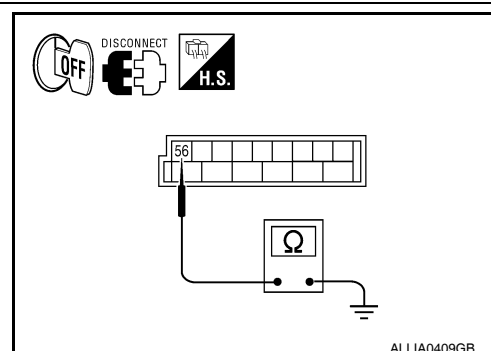
Check continuity between BCM connector M20 terminal 56 and ground.

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

Description

INFOID:000000005146730

Controls the following interior room lamps (ground side) by PWM signal

- Puddle lamps
- Front room/map lamp assembly
- Personal lamp 2nd row
- Personal lamp 3rd row

NOTE:

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

Component Function Check

INFOID:000000005146731

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs
- Personal lamp bulbs
- Puddle lamp bulbs

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT-III

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

ON : Interior room lamp gradual brightening

OFF : Interior room lamp gradual dimming

Is the inspection result normal?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-19, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005146732

Regarding Wiring Diagram information, refer to [INL-28, "Wiring Diagram"](#).

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT-III

1. Switch the front room/map lamp assembly switch to DOOR.
2. Turn ignition switch ON.
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. While operating the test item, check voltage between BCM connector M20 terminal 63 and ground.

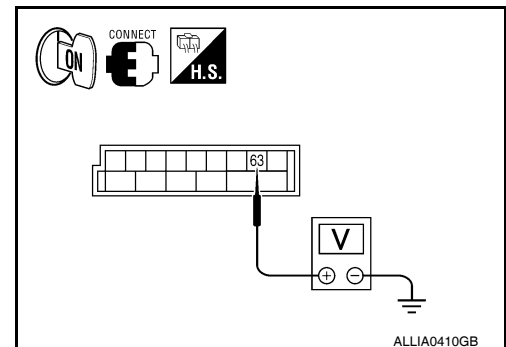
(+) Connector		(-)	INT LAMP	Voltage
Terminal				
M20	63	Ground	ON	0V
			OFF	Battery voltage

Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2



INTERIOR ROOM LAMP CONTROL CIRCUIT

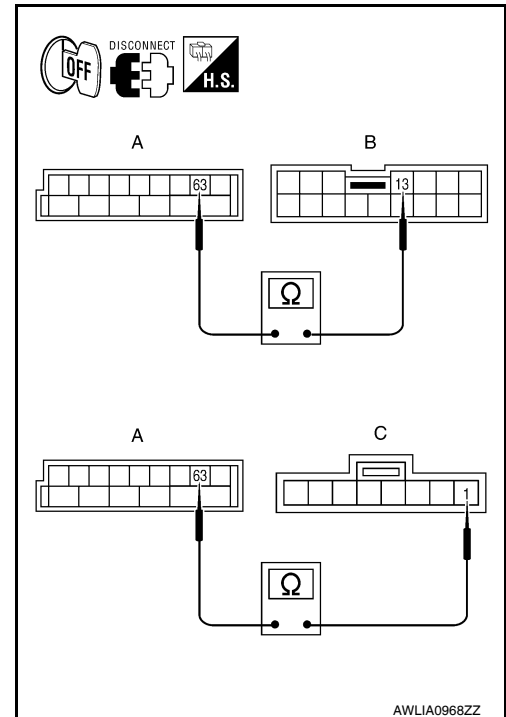
< COMPONENT DIAGNOSIS >

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, door mirror connectors and front room/map lamp assembly connector.
3. Check continuity between BCM connector M20 (A) terminal 63 and the door mirror connectors (B) and front room/map lamp assembly connector (C).

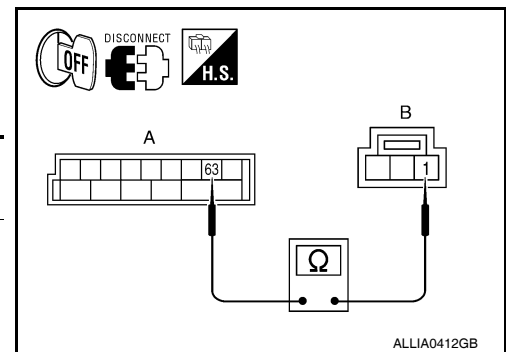
BCM		Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	
M20 (A)	63	Door mirror LH	D4 (B)	13	Yes
		Door mirror RH	D107 (B)	13	
		Front room/map lamp assembly	R102 (C)	1	

4. Reconnect the front room/map lamp assembly connector.



5. Check continuity between BCM connector M20 (A) terminal 63 and the 2nd and 3rd row personal lamp connectors (B) terminal 1.

BCM		Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	
M20 (A)	63	Personal lamp 2nd row	R203 (B)	1	Yes
		Personal lamp 3rd row	R205 (B)	1	



Is the inspection result normal?

YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to [BCS-59, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-77, "Removal and Installation"](#) or [MIR-17, "Door Mirror Assembly"](#).

NO >> Repair the harness or connectors.

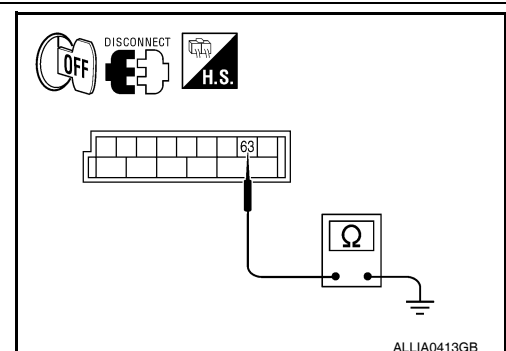
3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, door mirror connectors and 2nd and 3rd row personal lamp connectors.
3. Switch the front room/map lamp assembly switch to ON position.
4. Check continuity between BCM connector M20 terminal 63 and ground.

Connector	Terminal	—	Continuity
M20	63	Ground	No

Is the inspection result normal?

YES >> Check interior room lamps for a short circuit. If OK, replace BCM. Refer to [BCS-59, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-77, "Removal and Installation"](#) or [MIR-17, "Door Mirror Assembly"](#).



INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

NO >> Repair the harness or connectors.

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STEP LAMP CIRCUIT

< COMPONENT DIAGNOSIS >

STEP LAMP CIRCUIT

Description

INFOID:000000005146733

Controls the front and rear step lamps and the foot lamps (ground side) to turn the lamps ON and OFF.

Component Function Check

INFOID:000000005146734

CAUTION:

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

- Battery saver output/power supply
- Front step lamp bulbs
- Rear step lamp bulbs
- Foot lamp bulbs

1.CHECK STEP LAMP OPERATION

CONSULT-III

1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check that the front/rear step lamps and foot lamps turn ON/OFF.

ON : Step lamp ON

OFF : Step lamp OFF

Is the inspection result normal?

- YES >> Step lamp circuit is normal.
NO >> Refer to [INL-22, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005146735

Regarding Wiring Diagram information, refer to [INL-28, "Wiring Diagram"](#).

1.CHECK STEP LAMP OUTPUT

CONSULT-III

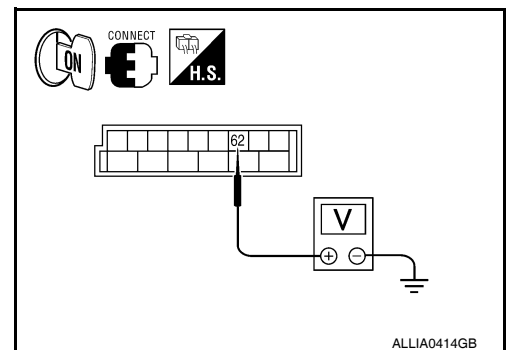
1. Turn ignition switch ON.
2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM harness connector M20 terminal 62 and ground.

Connector	Terminal	—	STEP LAMP TEST	Voltage
M20	62	Ground	ON	0V
			OFF	Battery voltage

Is the inspection result normal?

- YES >> Step lamp circuit is operating normally.
Fixed ON>>GO TO 3
Fixed OFF>>GO TO 2

2.CHECK STEP LAMP OPEN CIRCUIT



STEP LAMP CIRCUIT

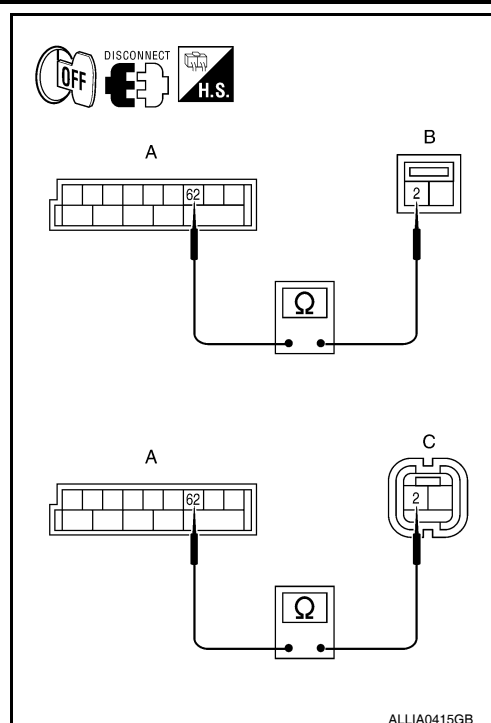
< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, front step lamp, rear step lamp and foot lamp connectors.
3. Check continuity between BCM connector M20 (A) terminal 62 and step lamp connectors (B) and foot lamp connectors (C).

Connector	Terminal	Connector	Terminal	Continuity
M20 (A)	62	Front step lamp LH	D11 (B)	Yes
		Front step lamp RH	D109 (B)	
		Rear step lamp LH	D206 (B)	
		Rear step lamp RH	D306 (B)	
		Foot lamp LH	M99 (C)	
		Foot lamp RH	M100 (C)	

Is the inspection result normal?

- YES >> Check step lamp or foot lamp for an open. If OK, replace BCM. Refer to [BCS-59, "Removal and Installation"](#). If NG, replace step lamp or foot lamp. Refer to [INL-77, "Removal and Installation"](#).
- NO >> Repair harness or connectors.



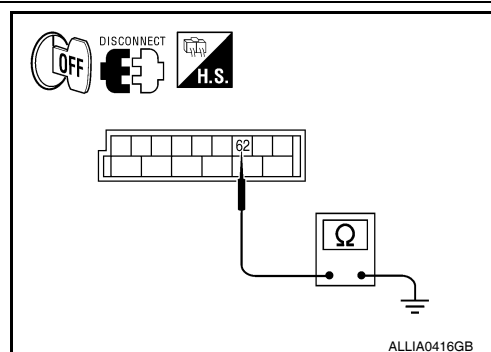
3.CHECK STEP LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, front and rear step lamp connectors and foot lamp connectors.
3. Check continuity between BCM connector M20 terminal 62 and ground.

Connector	Terminal	—	Continuity
M20	62	Ground	No

Is the inspection result normal?

- YES >> Check step lamp or foot lamp for a short circuit. If OK, replace BCM. Refer to [BCS-59, "Removal and Installation"](#). If NG, replace step lamp or foot lamp. Refer to [INL-77, "Removal and Installation"](#).
- NO >> Repair the harness or connectors.



CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description

INFOID:000000005146736

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

Component Function Check

INFOID:000000005146737

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb

1.CHECK CARGO LAMP OPERATION

CONSULT-III

1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check that cargo lamp turns ON/OFF.

ON : Cargo lamp ON

OFF : Cargo lamp OFF

Is the inspection result normal?

- YES >> Cargo lamp circuit is normal.
NO >> Refer to [INL-22, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005146738

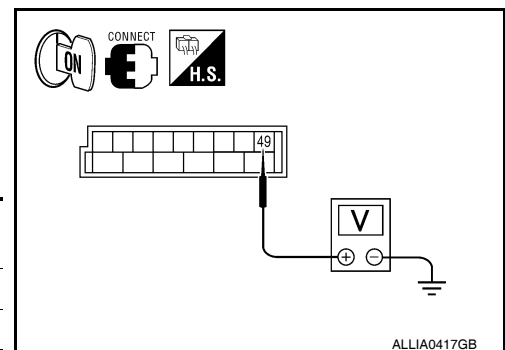
Regarding Wiring Diagram information, refer to [INL-28, "Wiring Diagram"](#).

1.CHECK CARGO LAMP OUTPUT

CONSULT-III

1. Turn ignition switch ON.
2. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M19 terminal 49 and ground.

Connector	Terminal	—	LUGGAGE LAMP TEST	Voltage
M19	49	Ground	ON	0V
			OFF	Battery voltage



Is the inspection result normal?

- YES >> Cargo lamp control circuit is operating normally.
Fixed ON>>GO TO 3
Fixed OFF>>GO TO 2

2.CHECK CARGO LAMP OPEN CIRCUIT

CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Disconnect BCM connector M19 and cargo lamp connector.
3. Check continuity between BCM connector M19 (A) terminal 49 and cargo lamp connector B153 (B) terminal 1.

BCM		Cargo lamp		Continuity
Connector	Terminal	Connector	Terminal	
M19 (A)	49	B153 (B)	1	Yes

Is the inspection result normal?

- YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to [BCS-59, "Removal and Installation"](#). If NG, replace cargo lamp. Refer to [INL-81, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

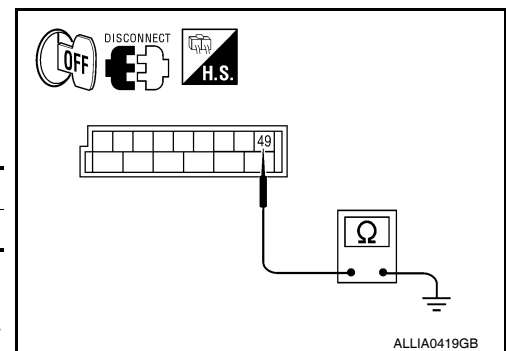
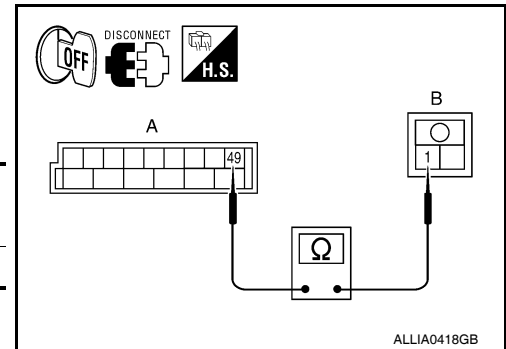
3.CHECK CARGO LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M19 and cargo lamp connector.
3. 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 [BCS-59, "Removal and Installation"](#). If NG, replace cargo lamp. Refer to [INL-81, "Removal and Installation"](#).
- NO >> Repair harness or connectors.



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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

INFOID:000000005146739

Controls the ignition keyhole illumination (ground side) to turn the ignition keyhole illumination ON and OFF.

Component Function Check

INFOID:000000005146740

CAUTION:

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

CONSULT-III

1. Turn the ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. While operating the test item, check that the ignition keyhole illumination turns ON/OFF

ON : Ignition keyhole illumination ON

OFF : Ignition keyhole illumination OFF

Is the inspection result normal?

YES >> Ignition keyhole illumination circuit is normal.

NO >> Refer to [INL-26, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000005146741

Regarding Wiring Diagram information, refer to [INL-28, "Wiring Diagram"](#).

1.CHECK IGNITION KEYHOLE OUTPUT

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	Ground	ON	0V
			OFF	Battery voltage

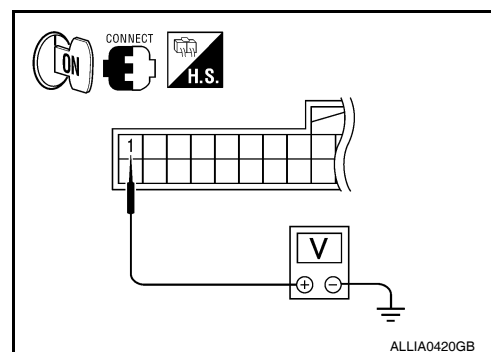
Is the inspection result normal?

YES >> Ignition keyhole illumination control circuit is operating normally.

Fixed ON>>GO TO 3

Fixed OFF>>GO TO 2

2.CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT



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 keyhole illumination		Continuity
Connector	Terminal	Connector	Terminal	
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 [BCS-59. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.

3.CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

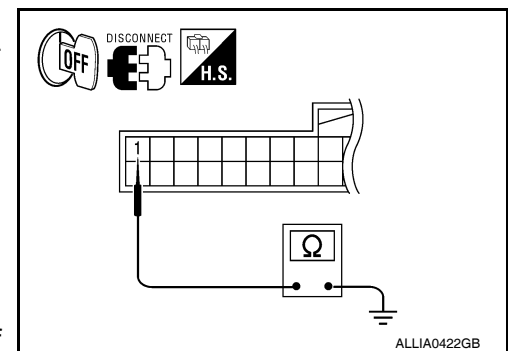
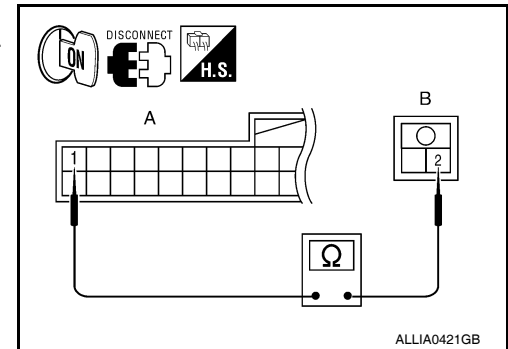
1. Turn ignition switch OFF.
2. Disconnect BCM connector M18 and ignition keyhole illumination connector.
3. Check continuity between BCM connector M18 terminal 1 and ground.

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 [BCS-59. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.

NO >> Repair harness or connectors.



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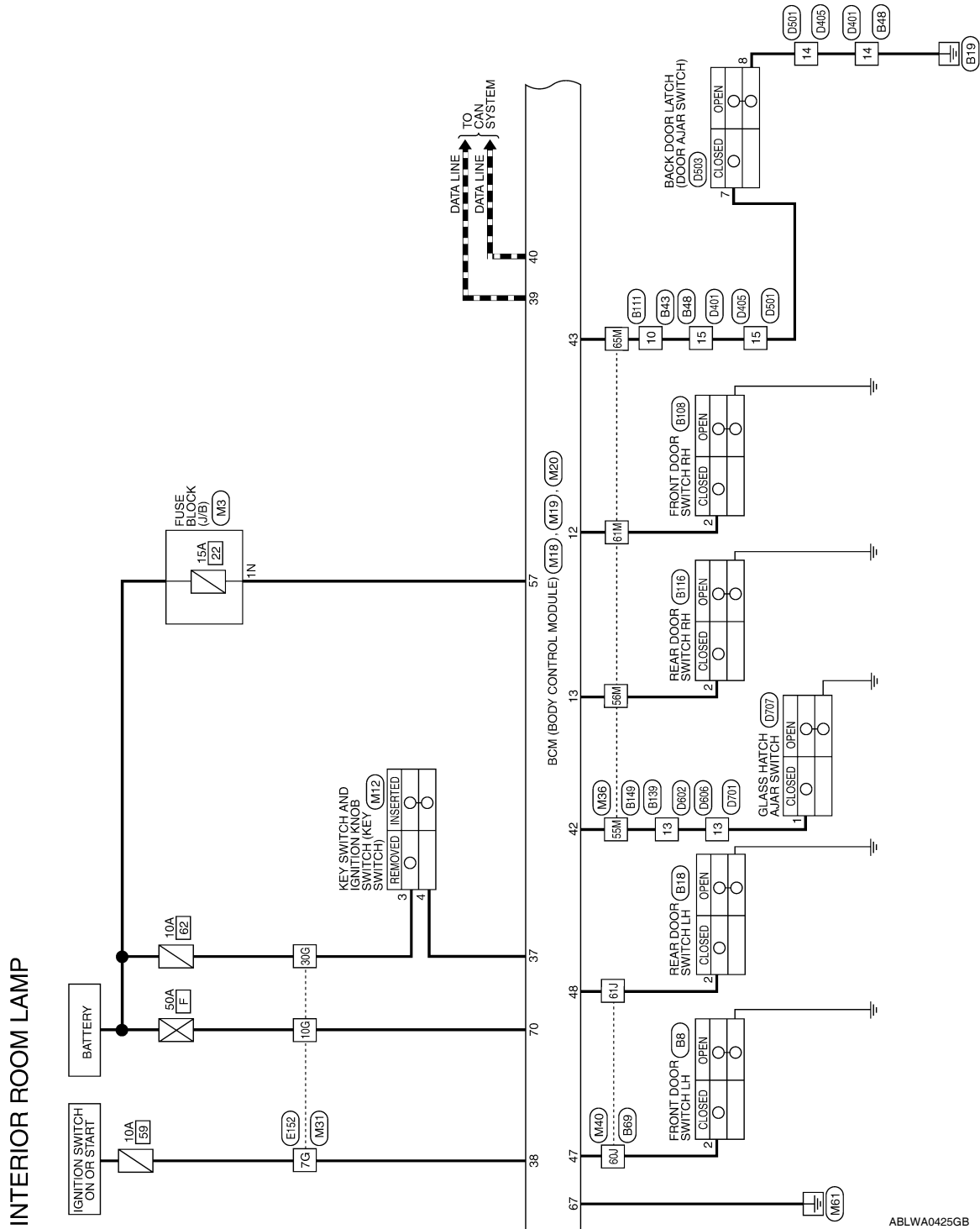
INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

INFOID:000000005146742

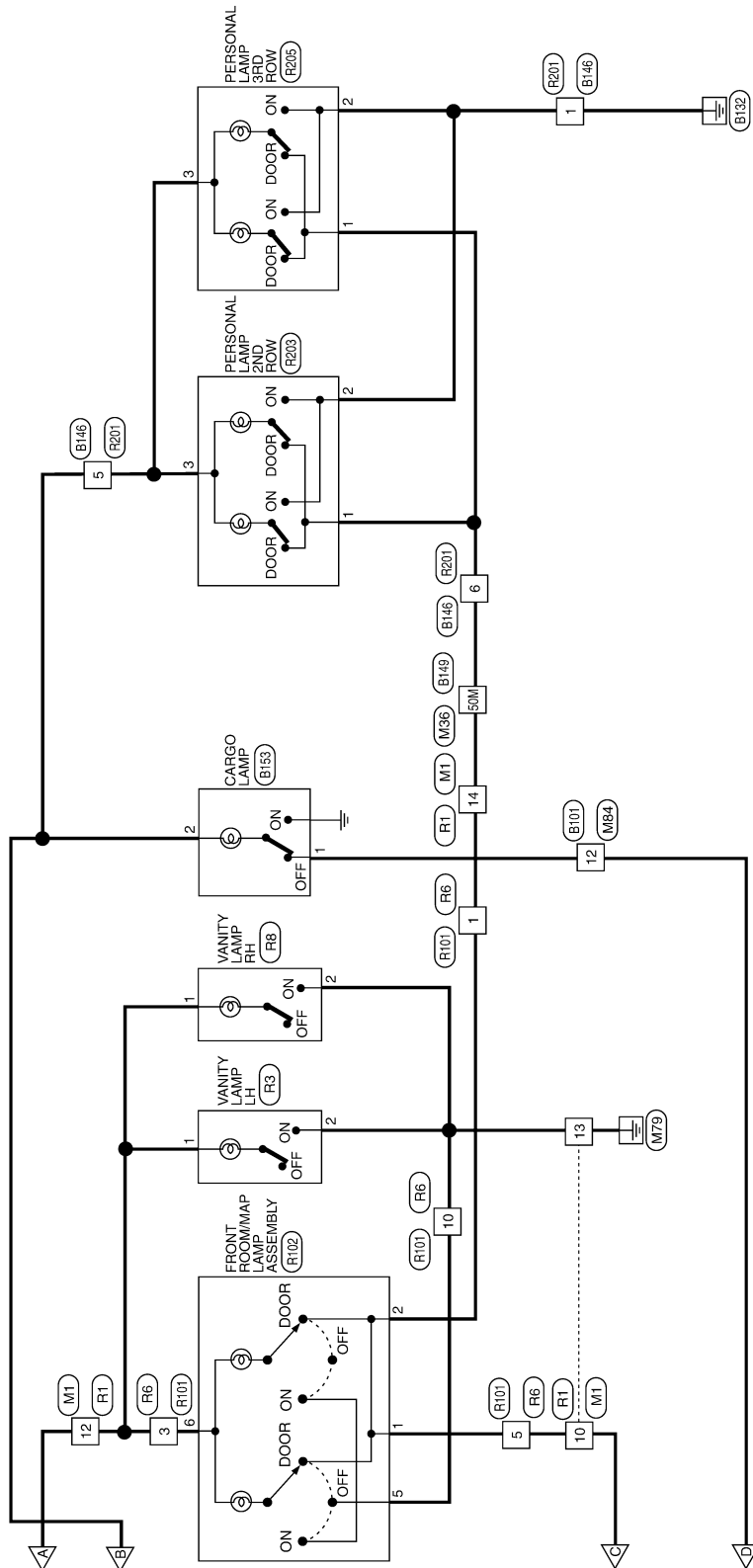


< COMPONENT DIAGNOSIS >



INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >



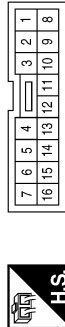
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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

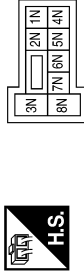
INTERIOR ROOM LAMP CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



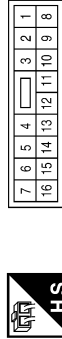
Terminal No.	Color of Wire	Signal Name
10	L	-
12	R/G	-
13	B	-
14	R	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



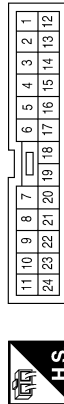
Terminal No.	Color of Wire	Signal Name
1N	Y/R	-

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	W/V	-
14	B	-

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	BROWN



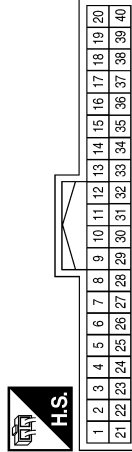
Terminal No.	Color of Wire	Signal Name
6	R/W	-
7	R/G	-
24	L	-

Connector No.	M12
Connector Name	KEY SWITCH AND IGNITION KNOB SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	Y	-
4	B/R	-

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



Terminal No.	Color of Wire	Signal Name
1	BR/W	KEY RING OUTPUT
12	R/L	DOOR SW (AS)
13	GR	DOOR SW (RR)
22	W/V	ANTI-PINCH SERIAL LINK (RX, TX)
37	B/R	KEY SW
38	W/L	IGN SW
39	L	CAN-H
40	P	CAN-L

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			



Terminal No.	Color of Wire	Signal Name
56	R/G	BATTERY SAVER OUTPUT
57	Y/R	BAT (FUSE)
62	R/W	STEP LAMP OUTPUT
63	L	ROOM LAMP
67	B	GND (POWER)
70	W/B	BAT (F/L)

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

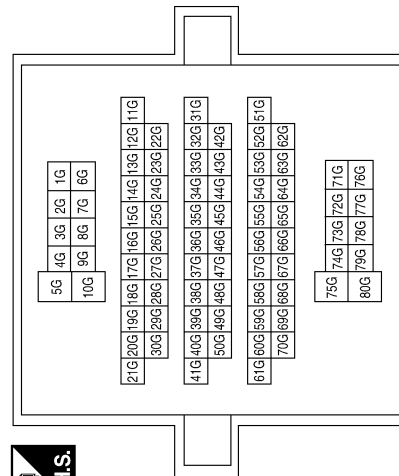
41	42	43	44	45	46	47	48	49
50	51	52	53	54	55			



Terminal No.	Color of Wire	Signal Name
42	GR	GLASS HATCH SW
43	R/B	BACK DOOR SW
47	SB	DOOR SW (DR)
48	R/Y	DOOR SW (RL)
49	R	LUGGAGE LAMP OUTPUT

Terminal No.	Color of Wire	Signal Name
7G	W/L	-
10G	W/B	-
30G	Y	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



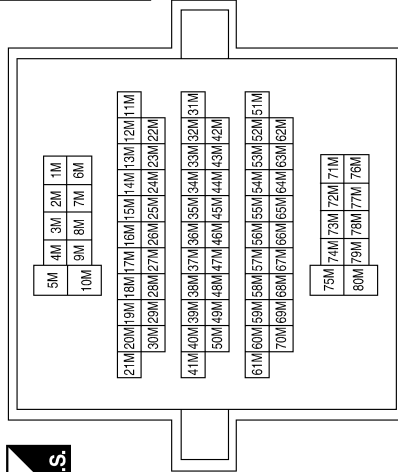
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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

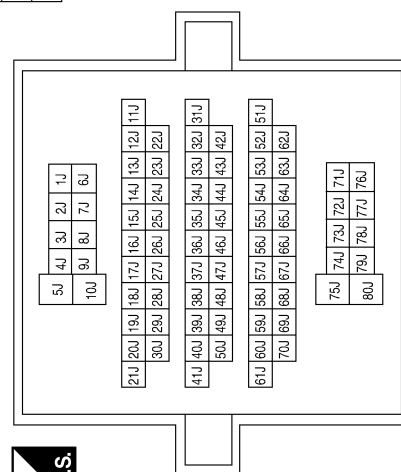
Terminal No.	Color of Wire	Signal Name
49M	R/G	-
50M	R	-
55M	GR	-
56M	GR	-
61M	R/L	-
64M	R/W	-
65M	R/B	-

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Color	WHITE

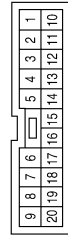


Terminal No.	Color of Wire	Signal Name
58J	R/G	-
59J	R/W	-
60J	SB	-
61J	R/Y	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
4	L	-
5	W/V	-
6	R/W	-
7	R/G	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Color	WHITE



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name
3	B	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	Color of Wire	Signal Name
12	R	-

Connector No.	M99
Connector Name	FOOT LAMP LH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	R/W	-

Connector No.	M100
Connector Name	FOOT LAMP RH
Connector Color	BROWN

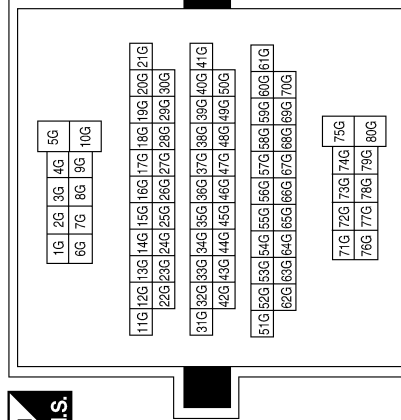


Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	R/W	-

Connector No.	M150
Connector Name	IGNITION KEYHOLE ILLUMINATION
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	BR/W	-



Terminal No.	Color of Wire	Signal Name
7G	L/W	-
10G	W/B	-
30G	Y	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	R/W	—
10	R/G	—

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	SB	—

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



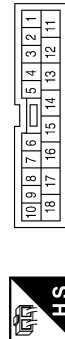
Terminal No.	Color of Wire	Signal Name
2	R/Y	—

Connector No.	B43
Connector Name	WIRE TO WIRE
Connector Color	WHITE



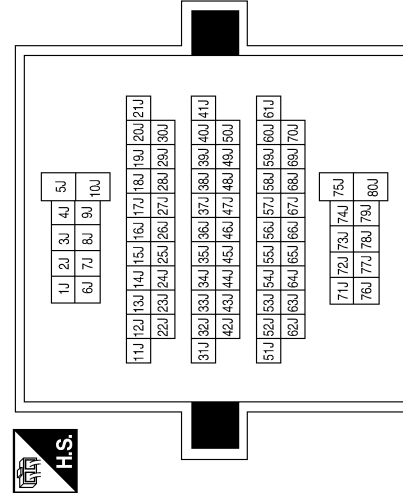
Terminal No.	Color of Wire	Signal Name
10	R/W	—

Connector No.	B48
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	B	—
15	R/W	—

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
58J	R/G	—
59J	R/W	—
60J	SB	—
61J	R/Y	—

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INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3
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Terminal No.	Color of Wire	Signal Name
2	R/L	—

Connector No.	B106
Connector Name	WIRE TO WIRE
Connector Color	WHITE



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11		

Terminal No.	Color of Wire	Signal Name
9	R/W	—
10	R/G	—

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4		5	6	7	
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
12	R	—

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
13	GR	—

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



1	2	3
---	---	---

Terminal No.	Color of Wire	Signal Name
2	GR	—

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7		
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
10	R/W	—

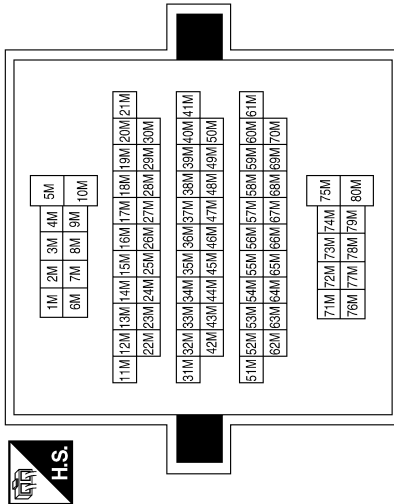
ABLIA1593GB

INTERIOR ROOM LAMP CONTROL SYSTEM

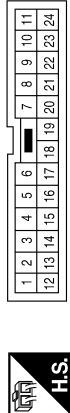
< COMPONENT DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
49M	R/G	-
50M	R	-
55M	GR	-
56M	GR	-
61M	R/L	-
64M	R/W	-
65M	R/W	-

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B146
Connector Name	WIRE TO WIRE
Connector Color	BROWN

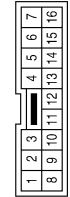


Terminal No.	Color of Wire	Signal Name
1	B	-
5	R/G	-
6	R	-

Connector No.	R3
Connector Name	VANITY LAMP LH
Connector Color	WHITE



Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B153
Connector Name	CARGO LAMP
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	B	-

Terminal No.	Color of Wire	Signal Name
10	L	-
12	R/G	-
13	B	-
14	R	-

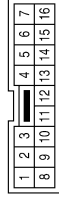
Terminal No.	Color of Wire	Signal Name
1	R	-
2	R/G	-

ABLIA0142GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



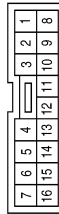
Terminal No.	Color of Wire	Signal Name
1	R	-
3	R/G	-
5	L	-
10	B	-

Connector No.	R8
Connector Name	VANITY LAMP RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	B	-

Connector No.	R6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



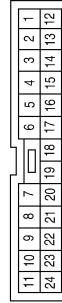
Terminal No.	Color of Wire	Signal Name
1	R	-
3	R/G	-
5	L	-
10	B	-

Connector No.	R203
Connector Name	PERSONAL LAMP 2ND ROW
Connector Color	WHITE



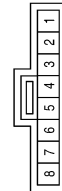
Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	R/G	-

Connector No.	R201
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	B	-
5	R/G	-
6	R	-

Connector No.	R102
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	L	DOOR BATT
2	R	GND THRU SW
5	B	GND
6	R/G	BAT

ABLIA1393GB

INTERIOR ROOM LAMP CONTROL SYSTEM

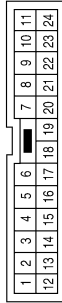
< COMPONENT DIAGNOSIS >

Connector No.	R205
Connector Name	PERSONAL LAMP 3RD ROW
Connector Color	WHITE



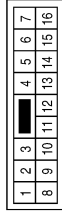
Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	R/G	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	BROWN



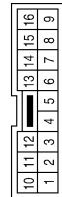
Terminal No.	Color of Wire	Signal Name
6	R/W	-
7	R/G	-
24	L	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



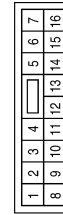
Terminal No.	Color of Wire	Signal Name
8	LG/W	-
14	B	-

Connector No.	D4
Connector Name	DOOR MIRROR LH
Connector Color	WHITE



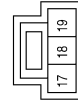
Terminal No.	Color of Wire	Signal Name
12	R/G	-
13	L	-

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	L	LOCK
6	R	UNLOCK
14	LG/W	ANTI PINCH SERIAL LINK

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
17	B	GND

ABLIA0144GB

INTERIOR ROOM LAMP CONTROL SYSTEM

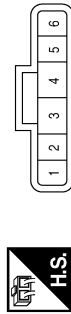
< COMPONENT DIAGNOSIS >

Connector No.	D11
Connector Name	FRONT STEP LAMP LH
Connector Color	WHITE



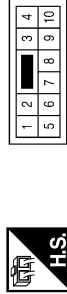
Terminal No.	Color of Wire	Signal Name
1	R/G	—
2	R/W	—

Connector No.	D14
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	BLACK



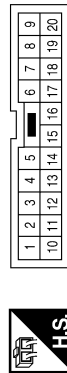
Terminal No.	Color of Wire	Signal Name
1	L	LOCK
5	B	GND
6	R	UNLOCK

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



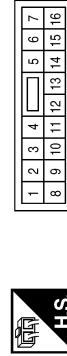
Terminal No.	Color of Wire	Signal Name
3	B	—

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	BROWN



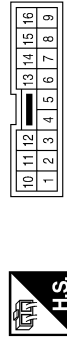
Terminal No.	Color of Wire	Signal Name
4	L	—
5	LG/W	—
6	R/W	—
7	R/G	—

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	B	GND
16	LG/W	ANTI PINCH SERIAL LINK

Connector No.	D107
Connector Name	DOOR MIRROR RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	R/G	—
13	L	—

INTERIOR ROOM LAMP CONTROL SYSTEM

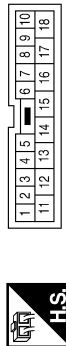
< COMPONENT DIAGNOSIS >

Connector No.	D109
Connector Name	FRONT STEP LAMP RH
Connector Color	WHITE



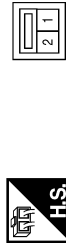
Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	R/W	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



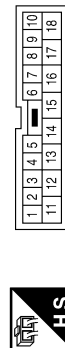
Terminal No.	Color of Wire	Signal Name
9	R/W	-
10	R/G	-

Connector No.	D206
Connector Name	REAR STEP LAMP LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	R/W	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	R/W	-
10	R/G	-

Connector No.	D306
Connector Name	REAR STEP LAMP RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	R/W	-

Connector No.	D401
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

ABLIA0146GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

Connector No.	D503
Connector Name	BACK DOOR LATCH
Connector Color	WHITE



1	2	3
4	5	6
7	8	

Terminal No.	Color of Wire	Signal Name
7	R/W	-
8	B	-

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

Connector No.	D405
Connector Name	WIRE TO WIRE
Connector Color	WHITE



10	9	8	7	6	5	4	3	2	1
18	17	16	15	14	13	12	11		

Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

Connector No.	D701
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

Connector No.	D606
Connector Name	WIRE TO WIRE
Connector Color	WHITE



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	Color of Wire	Signal Name
13	GR	-

Connector No.	D602
Connector Name	WIRE TO WIRE
Connector Color	WHITE



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	Color of Wire	Signal Name
13	GR	-

ABLIA0147GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< COMPONENT DIAGNOSIS >

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Connector No.	D707
Connector Name	GLASS HATCH AJAR SWITCH
Connector Color	BLACK



Terminal No.	1	Color of Wire	GR	Signal Name	-
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ABLIA0148GB

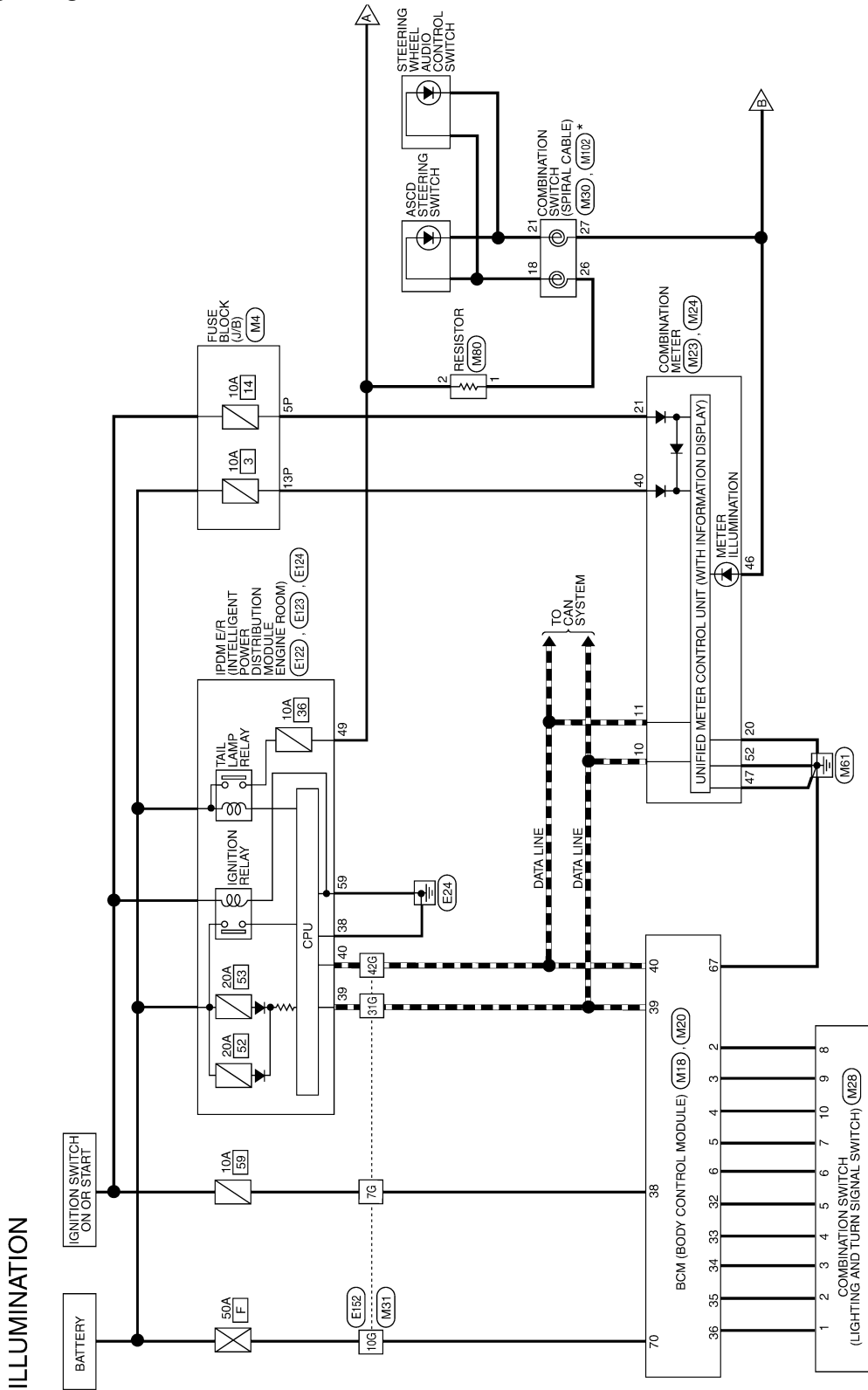
ILLUMINATION

< COMPONENT DIAGNOSIS >

ILLUMINATION

Wiring Diagram

INFOID:000000005146743



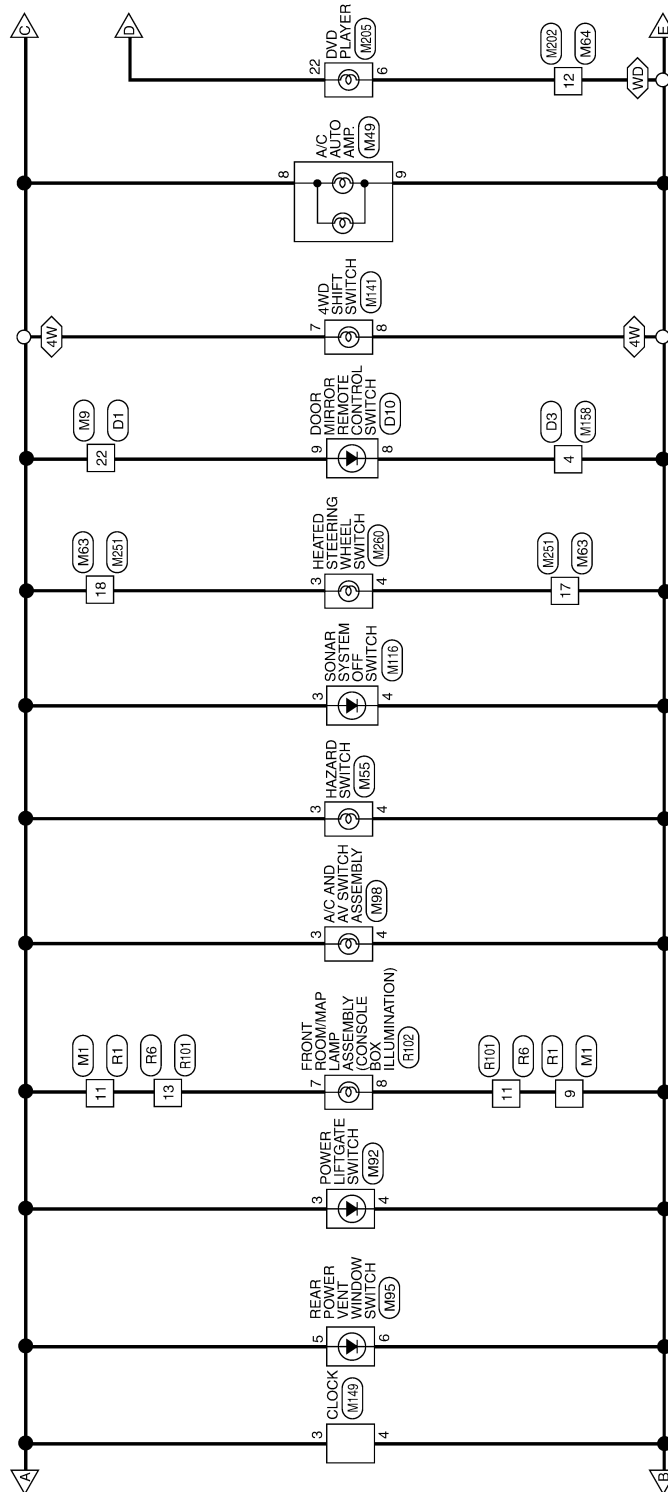
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

ABLWA0428GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

4W : WITH 4-WHEEL DRIVE
WD : WITH DVD ENTERTAINMENT SYSTEM



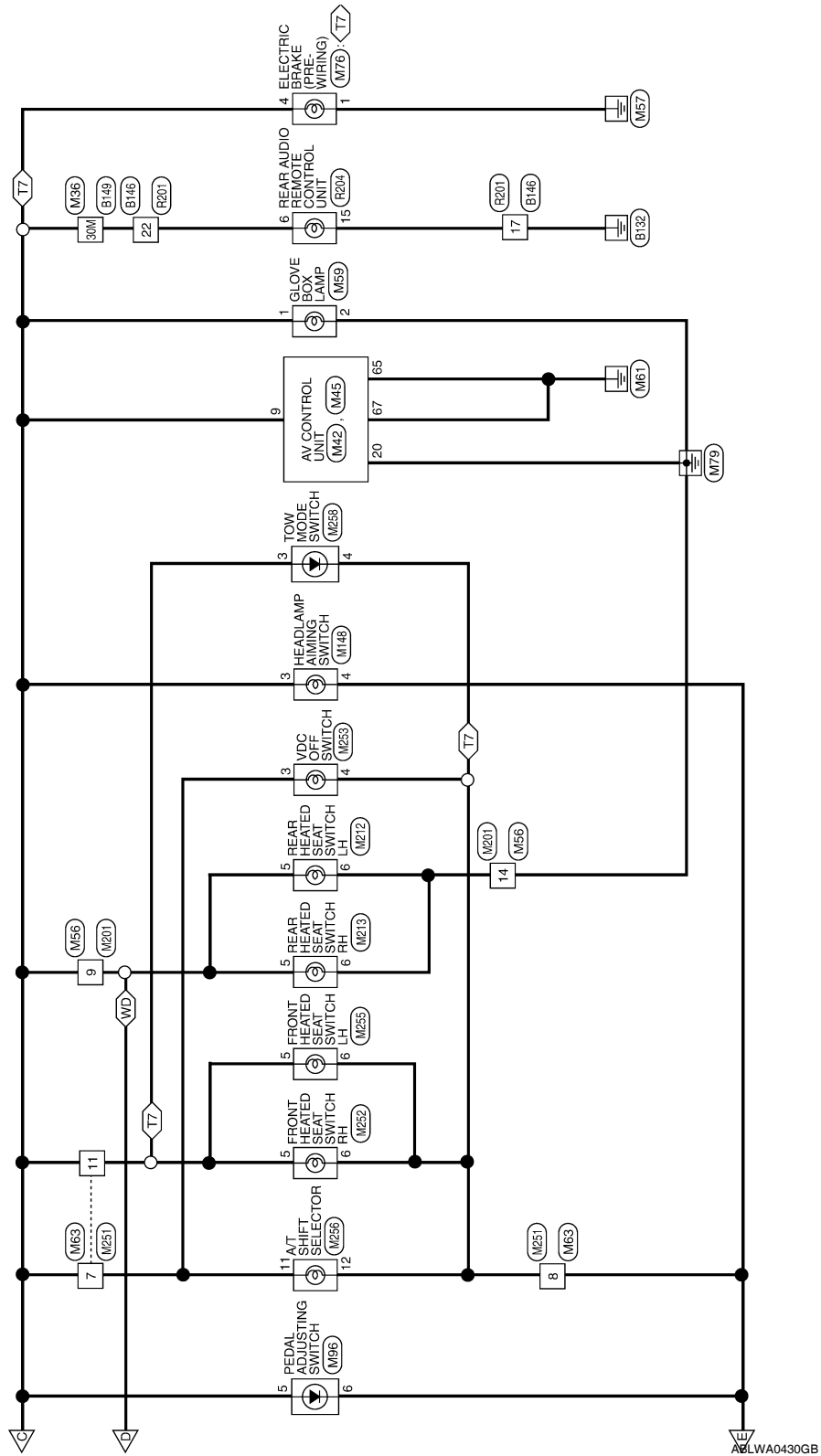
ABLWA0429GB

A
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INL
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ILLUMINATION

< COMPONENT DIAGNOSIS >

T7 : TRAILER TOW 7PIN
WD : WITH DVD ENTERTAINMENT SYSTEM



ILLUMINATION CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					



7P	6P	5P	4P	3P	2P	1P
16P	15P	14P	13P	12P	11P	10P
9P						

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	BROWN



11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14
13	12									

Terminal No.	Color of Wire	Signal Name
9	BR	—
11	R/L	—

Terminal No.	Color of Wire	Signal Name
5P	O/L	—
13P	P	—

Terminal No.	Color of Wire	Signal Name
22	R/L	—

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
2	SB	INPUT 5
3	G/Y	INPUT 4
4	Y	INPUT 3
5	G/B	INPUT 2
6	V	INPUT 1
32	R/G	OUTPUT 5
33	R/Y	OUTPUT 4
34	L	OUTPUT 3
35	O/B	OUTPUT 2
36	R/W	OUTPUT 1
38	W/L	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

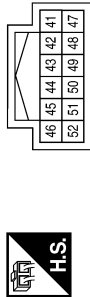
Terminal No.	Color of Wire	Signal Name
67	B	GND (POWER)
70	W/B	BAT (F/L)

ABLIA1395GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE



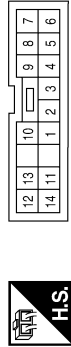
Terminal No.	Color of Wire	Signal Name
46	BR	ILL LED CON OUTPUT
47	B	POWER GND
52	B	POWER GND

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	L	CAN-H
11	P	CAN-L
20	B	GND
21	O/L	RUN/START
40	P	BATTERY

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R/W	INPUT 1
2	O/B	INPUT 2
3	L	INPUT 3
4	R/Y	INPUT 4
5	R/G	INPUT 5
6	V	OUTPUT 1
7	G/B	OUTPUT 2
8	SB	OUTPUT 5
9	G/Y	OUTPUT 4
10	Y	OUTPUT 3

Connector No.	M30
Connector Name	COMBINATION SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
26	Y	-
27	BR	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



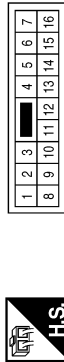
Terminal No.	Color of Wire	Signal Name
7G	W/L	-
10G	W/B	-
31G	L	-
37G	R/L	-
42G	P	-

ABLIA1396GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	R/L	-
14	B	-

Connector No.	M59
Connector Name	GLOVE BOX LAMP
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R/L	-
2	B	-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Color	BROWN



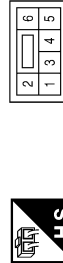
Terminal No.	Color of Wire	Signal Name
7	R/L	-
8	BR	-
11	R/L	-
17	BR	-
18	R/L	-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
12	BR	-

Connector No.	M76
Connector Name	ELECTRIC BRAKE (PRE-WIRING)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND
4	R/L	ILL (TAIL)

Connector No.	M80
Connector Name	RESISTOR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	Y	-
2	R/L	-

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M92
Connector Name	POWER LIFTGATE SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	R/L	ILL
4	BR	ILL_CONT_GND

Connector No.	M95
Connector Name	REAR POWER VENT WINDOW SWITCH
Connector Color	WHITE



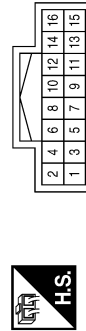
Terminal No.	Color of Wire	Signal Name
5	R/L	-
6	BR	-

Connector No.	M96
Connector Name	PEDAL ADJUSTING SWITCH
Connector Color	BROWN



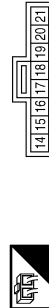
Terminal No.	Color of Wire	Signal Name
5	R/L	-
6	BR	-

Connector No.	M98
Connector Name	A/C AND AV SWITCH ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R/L	ILL
4	BR	ILL CONT GND

Connector No.	M102
Connector Name	COMBINATION SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
18	O	-
21	L	-

Connector No.	M116
Connector Name	SONAR SYSTEM OFF SWITCH
Connector Color	GRAY



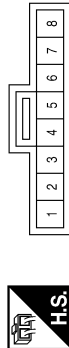
Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	BR	-

ABLIA1398GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M141
Connector Name	4WD SHIFT SWITCH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
7	R/L	—
8	BR	—

Connector No.	M148
Connector Name	HEADLAMP AIMING SWITCH
Connector Color	WHITE



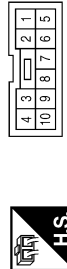
Terminal No.	Color of Wire	Signal Name
3	R/L	—
4	BR	—

Connector No.	M149
Connector Name	CLOCK
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R/L	ILL+
4	BR	ILL-

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Color	WHITE



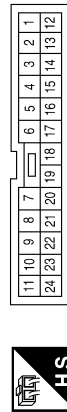
Terminal No.	Color of Wire	Signal Name
4	BR	—

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	R/L	—
14	B	—

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
12	BR	—

ABLIA1399GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M213
Connector Name	REAR HEATED SEAT SWITCH RH
Connector Color	BROWN



5	6
4	2
1	3

Terminal No.	Color of Wire	Signal Name
5	R/L	—
6	B	—

Connector No.	M212
Connector Name	REAR HEATED SEAT SWITCH LH
Connector Color	WHITE



5	6
4	2
1	3

Terminal No.	Color of Wire	Signal Name
5	R/L	—
6	B	—

Connector No.	M205
Connector Name	DVD PLAYER
Connector Color	WHITE



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
6	BR	ILL+
22	R/L	LIGHTING SW

Connector No.	M253
Connector Name	VDC OFF SWITCH
Connector Color	GRAY



6	5	4	3	2	1
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Connector No.	M252
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN



5	6
4	2
1	3

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Color	BROWN



9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12
11	10							

Terminal No.	Color of Wire	Signal Name
3	R/L	—
4	BR	—

Terminal No.	Color of Wire	Signal Name
5	R/L	—
6	BR	—

Terminal No.	Color of Wire	Signal Name
7	R/L	—
8	BR	—
11	R/L	—
17	BR	—
18	R/L	—

ABLIA1400GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	M255
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE



5	6
4	3

Terminal No.	Color of Wire	Signal Name
5	R/L	—
6	BR	—

Connector No.	M256
Connector Name	A/T SHIFT SELECTOR
Connector Color	BLACK



11	12
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Terminal No.	Color of Wire	Signal Name
11	R/L	—
12	BR	—

Connector No.	M258
Connector Name	TOW MODE SWITCH
Connector Color	GRAY



6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name
3	R/L	—
4	BR	—

Connector No.	M260
Connector Name	HEATED STEERING WHEEL SWITCH
Connector Color	WHITE



1	2
6	4

Terminal No.	Color of Wire	Signal Name
3	R/L	—
4	BR	—

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



42	41	40	39	38	37
48	47	46	45	44	43

Terminal No.	Color of Wire	Signal Name
38	B	GND (SIGNAL)
39	L	CAN-H
40	P	CAN-L

Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

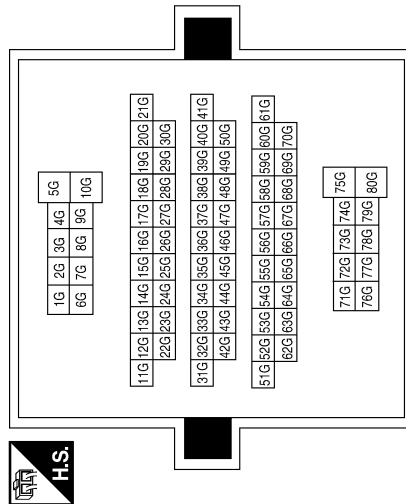


51	50	49
56	55	54

Terminal No.	Color of Wire	Signal Name
49	R/L	ILLUMINATION

Terminal No.	Color of Wire	Signal Name
7G	L/W	-
10G	W/B	-
31G	L	-
37G	R/L	-
42G	P	-

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

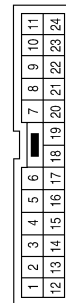


Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
59	B	GND (POWER)

Connector No.	B146
Connector Name	WIRE TO WIRE
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
17	B	-
22	R/L	-

ABLIA1402GB

ILLUMINATION

< COMPONENT DIAGNOSIS >

Connector No.	R6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
11	BR	-
13	R/L	-

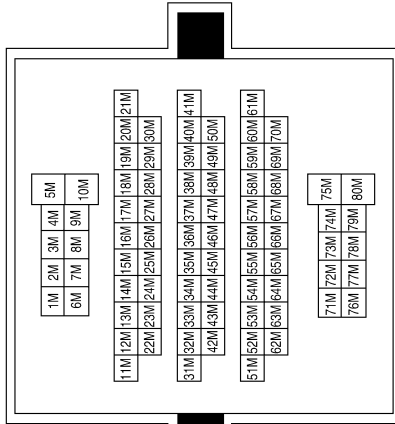
Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
9	BR	-
11	R/L	-

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
30M	R/L	-

Connector No.	R201
Connector Name	WIRE TO WIRE
Connector Color	BROWN



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Connector No.	R102
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
7	R/L	ILL+
8	BR	ILL-

Connector No.	R101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

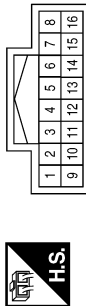


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name
11	BR	-
13	R/L	-

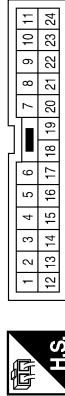
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Connector No.	R204
Connector Name	REAR AUDIO REMOTE CONTROL UNIT
Connector Color	WHITE



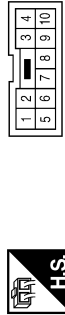
Terminal No.	Color of Wire	Signal Name
6	R/L	ILL+
15	B	GND

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	BROWN



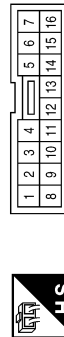
Terminal No.	Color of Wire	Signal Name
22	R/L	-

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	BR	-

Connector No.	D10
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	BR	-
9	R/L	-

ABLIA1403GB

A
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INL
M
N
O
P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000005337688

VALUES ON THE DIAGNOSIS TOOL

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
LIGHT SW 1ST	Lighting switch OFF	OFF	A
	Lighting switch 1st	ON	
HEAD LAMP SW1	Headlamp switch OFF	OFF	B
	Headlamp switch 1st	ON	
HEAD LAMP SW2	Headlamp switch OFF	OFF	C
	Headlamp switch 1st	ON	
HI BEAM SW	High beam switch OFF	OFF	D
	High beam switch HI	ON	
IGN ON SW	Ignition switch OFF or ACC	OFF	E
	Ignition switch ON	ON	
IGN SW CAN	Ignition switch OFF or ACC	OFF	F
	Ignition switch ON	ON	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	OFF	G
	LOCK button of Intelligent Key is pressed	ON	
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	OFF	H
	UNLOCK button of Intelligent Key is pressed	ON	
KEY CYL LK-SW	Door key cylinder LOCK position	ON	I
	Door key cylinder other than LOCK position	OF	
KEY CYL UN-SW	Door key cylinder UNLOCK position	ON	J
	Door key cylinder other than UNLOCK position	ON	
KEY ON SW	Mechanical key is removed from key cylinder	OFF	K
	Mechanical key is inserted to key cylinder	ON	
OIL PRESS SW	• Ignition switch OFF or ACC • Engine running	OFF	INL
	Ignition switch ON	ON	
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5V	M
	Dark outside of the vehicle	Close to 0V	
PASSING SW	Other than lighting switch PASS	OFF	N
	Lighting switch PASS	ON	
PUSH SW	Return to ignition switch to LOCK position	OFF	O
	Press ignition switch	ON	
REAR DEF SW	Rear window defogger switch OFF	OFF	P
	Rear window defogger switch ON	ON	
RR WASHER SW	Rear washer switch OFF	OFF	
	Rear washer switch ON	ON	
RR WIPER INT	Rear wiper switch OFF	OFF	
	Rear wiper switch INT	ON	
RR WIPER ON	Rear wiper switch OFF	OFF	
	Rear wiper switch ON	ON	
RR WIPER STOP	Rear wiper stop position	OFF	
	Other than rear wiper stop position	ON	
RR WIPER STP2	Rear wiper stop position	OFF	
	Other than rear wiper stop position	ON	

BCM (BODY CONTROL MODULE)

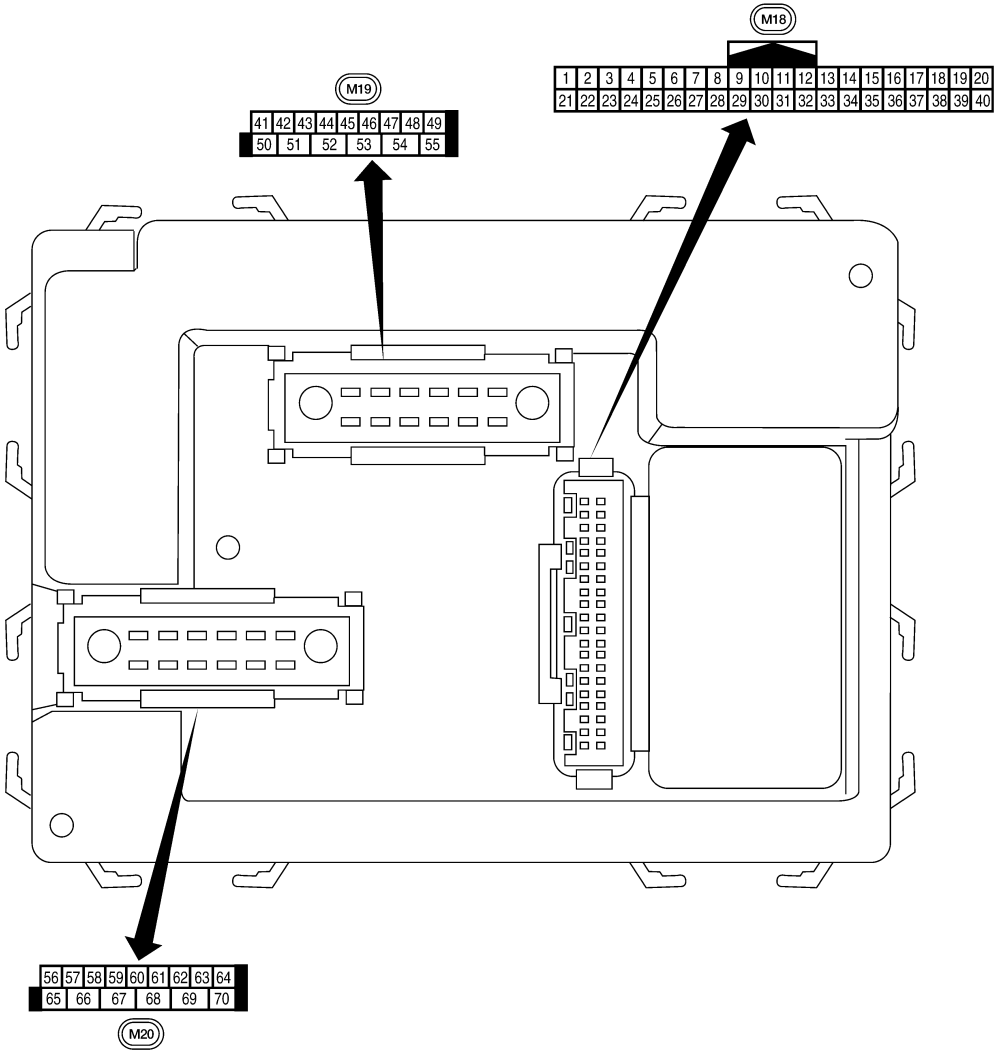
< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
TRNK OPNR SW	When back door opener switch is not pressed	OFF
	When back door opener switch is pressed	ON
TURN SIGNAL L	Turn signal switch OFF	OFF
	Turn signal switch LH	ON
TURN SIGNAL R	Turn signal switch OFF	OFF
	Turn signal switch RH	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >
Terminal Layout

INFOID:000000005337689



A
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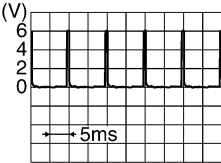

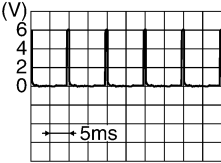
Physical Values

LIIA2443E

INFOID:000000005337690

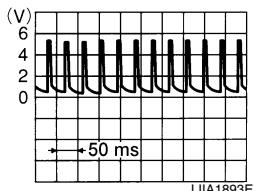
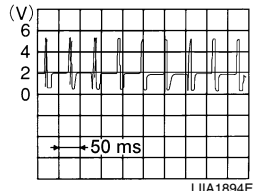
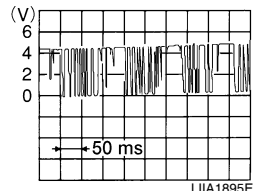
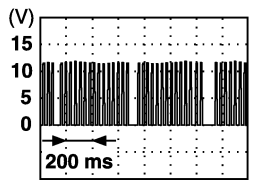
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
1	BR/W	Ignition keyhole illumination	Output	OFF	Door is locked (SW OFF)	Battery voltage
					Door is unlocked (SW ON)	0V
2	SB	Combination switch input 5	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5291E
3	G/Y	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5292E
4	Y	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5291E
5	G/B	Combination switch input 2	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5292E
6	V	Combination switch input 1				
9	GR/R	Rear window defogger switch	Input	ON	Rear window defogger switch ON	0V
					Rear window defogger switch OFF	5V
10	G	Hazard lamp flash	Input	OFF	ON (opening or closing)	0V
					OFF (other than above)	Battery voltage
11	O	Ignition switch (ACC or ON)	Input	ACC or ON	Ignition switch ACC or ON	Battery voltage
12	R/L	Front door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
13	GR	Rear door switch RH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
15	L/W	Tire pressure warning check connector	Input	OFF	—	5V
18	P	Remote keyless entry receiver and optical sensor (ground)	Output	OFF	—	0V

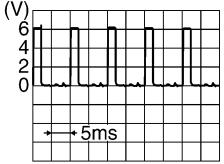
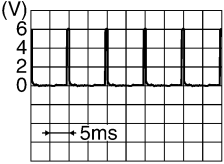
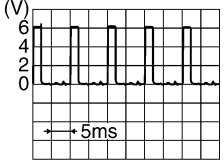
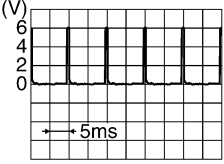
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
19	V/W	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	 LIA1893E
20	G/W	Remote keyless entry receiver (signal)	Input	OFF	Stand-by (keyfob buttons released)	 LIA1894E
					When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	 LIA1895E
21	G	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF → ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
22	W/V	BUS	—	—	Ignition switch ON or power window timer operates	 PIIA2344E
23	G/O	Security indicator lamp	Output	OFF	Goes OFF → illuminates (Every 2.4 seconds)	Battery voltage → 0V
25	BR	NATS antenna amp.	Input	OFF → ON	Ignition switch (OFF → ON)	Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage.
26	Y/L	Rear wiper auto stop switch 2	Input	ON	Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	0V
					Forward sweep (counterclockwise direction)	Fluctuating
					B Position (full counterclockwise stop position)	Battery voltage
					Reverse sweep (clockwise direction)	Fluctuating
27	W/R	Compressor ON signal	Input	ON	A/C switch OFF	5V
					A/C switch ON	0V

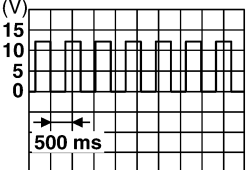
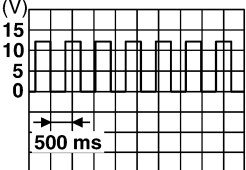
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
28	L/R	Front blower monitor	Input	ON	Front blower motor OFF	Battery voltage
					Front blower motor ON	0V
29	W/B	Hazard switch	Input	OFF	ON	0V
					OFF	5V
30	Y/BR	Glass hatch switch	Input	OFF	Glass hatch switch released	0V
					Glass hatch switch pressed	Battery
32	R/G	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5291E
33	R/Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5292E
34	L	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5291E
35	O/B	Combination switch output 2	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 SKIA5292E
36	R/W	Combination switch output 1				
37	B/R	Key switch and ignition knob switch	Input	OFF	Intelligent Key inserted	Battery voltage
					Intelligent Key inserted	0V
38	W/L	Ignition switch (ON)	Input	ON	—	Battery voltage
39	L	CAN-H	—	—	—	—
40	P	CAN-L	—	—	—	—
42	GR	Glass hatch ajar switch	Input	ON	Glass hatch open	0V
					Glass hatch closed	Battery
43	R/B	Back door latch (door ajar switch)	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage

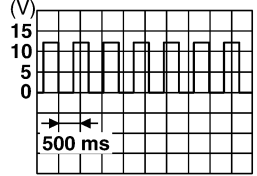
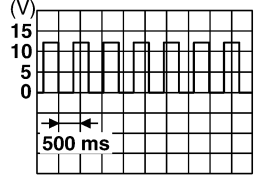
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
44	O	Rear wiper auto stop switch 1	Input	ON	Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	Battery voltage
					Forward sweep (counterclockwise direction)	Fluctuating
					B Position (full counterclockwise stop position)	0V
					Reverse sweep (clockwise direction)	Fluctuating
47	SB	Front door switch LH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
48	R/Y	Rear door switch LH	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
49	R	Cargo lamp	Output	OFF	Any door open (ON)	0V
					All doors closed (OFF)	Battery voltage
51	G/Y	Trailer turn signal (right)	Output	ON	Turn right ON	 SKIA3009J
52	G/B	Trailer turn signal (left)	Output	ON	Turn left ON	 SKIA3009J
53	L/W	Glass hatch lock actuator	Output	OFF	Glass hatch switch released	0V
					Glass hatch switch pressed	Battery voltage
54	Y	Rear wiper output circuit 2	Input	ON	Rise up position (rear wiper arm on stopper)	0V
					A Position (full clockwise stop position)	0V
					Forward sweep (counterclockwise direction)	0V
					B Position (full counterclockwise stop position)	Battery voltage
					Reverse sweep (clockwise direction)	Battery voltage
55	SB	Rear wiper output circuit 1	Output	ON	OFF	0V
					ON	Battery voltage
56	R/G	Battery saver output	Output	OFF	30 minutes after ignition switch is turned OFF	0V
				ON	—	Battery voltage
57	Y/R	Battery power supply	Input	OFF	—	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

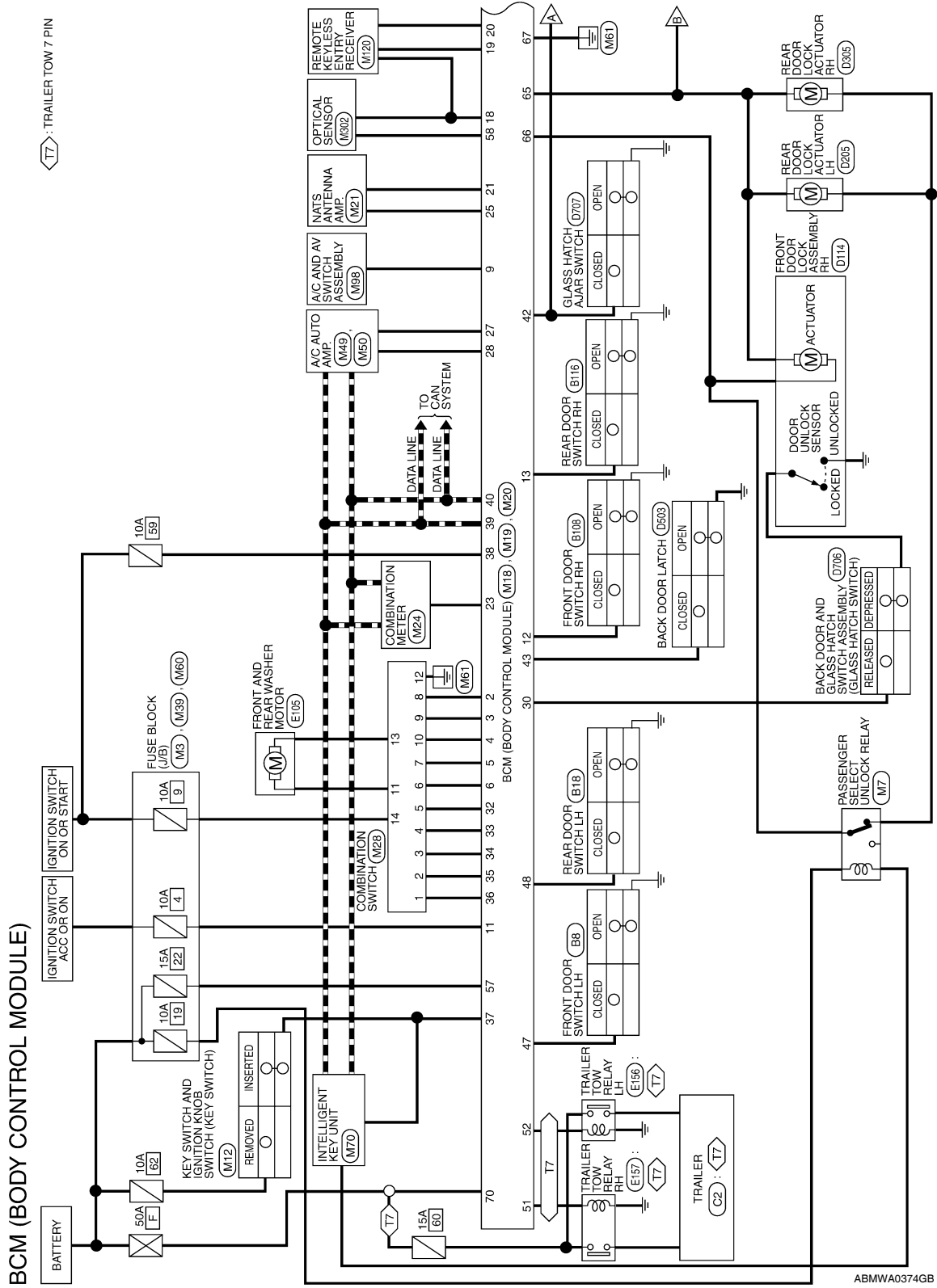
Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
58	W/R	Optical sensor	Input	ON	When optical sensor is illuminated	3.1V or more
					When optical sensor is not illuminated	0.6V or less
59	G	Front door lock assembly LH actuator (unlock)	Output	OFF	OFF (neutral)	0V
					ON (unlock)	Battery voltage
60	G/B	Turn signal (left)	Output	ON	Turn left ON	 SKIA3009J
61	G/Y	Turn signal (right)	Output	ON	Turn right ON	 SKIA3009J
62	R/W	Step lamp LH and RH	Output	OFF	ON (any door open)	0V
					OFF (all doors closed)	Battery voltage
63	L	Interior room/map lamp	Output	OFF	Any door switch	ON (open) 0V OFF (closed) Battery voltage
65	V	All door lock actuators (lock)	Output	OFF	OFF (neutral)	0V
					ON (lock)	Battery voltage
66	G/Y	Front door lock actuator RH, rear door lock actuators LH/RH and back door lock actuator (unlock)	Output	OFF	OFF (neutral)	0V
					ON (unlock)	Battery voltage
67	B	Ground	Input	ON	—	0V
68	W/L	Power window power supply (RAP)	Output	—	Ignition switch ON	Battery voltage
					Within 45 seconds after ignition switch OFF	Battery voltage
					More than 45 seconds after ignition switch OFF	0V
					When front door LH or RH is open or power window timer operates	0V
69	W/R	Power window power supply	Output	—	—	Battery voltage
70	W/B	Battery power supply	Input	OFF	—	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

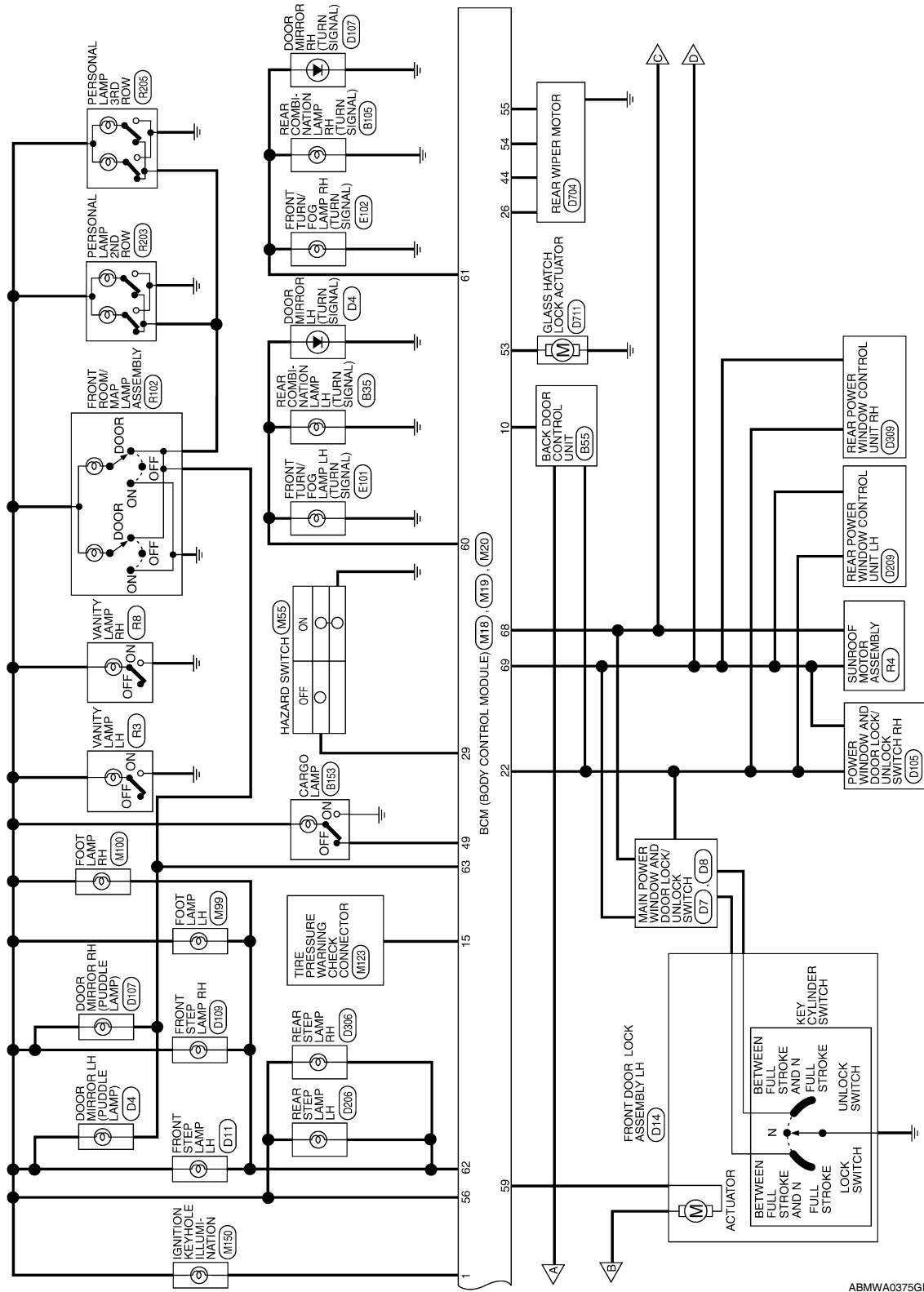
Wiring Diagram

INFOID:000000005337697



BCM (BODY CONTROL MODULE)

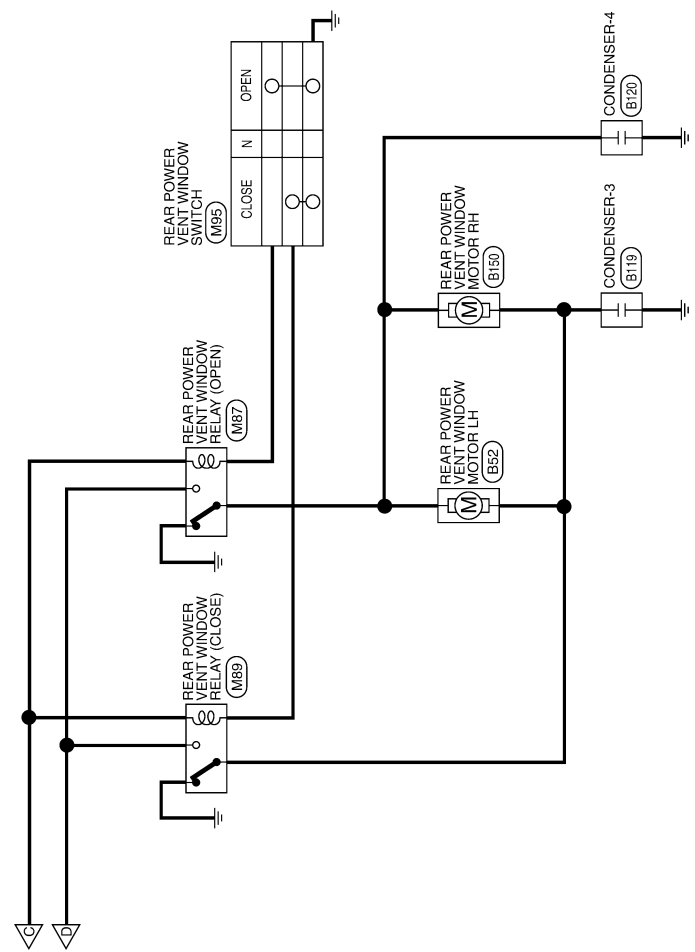
< ECU DIAGNOSIS >



ABMWA0375GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >



AAMWA0183GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE) CONNECTORS

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	BR/W	KEY RING OUTPUT
2	SB	INPUT 5
3	G/Y	INPUT 4
4	Y	INPUT 3
5	G/B	INPUT 2
6	V	INPUT 1
7	-	-
8	-	-
9	GR/R	REAR DEFOGGER SW
10	G	IVCS INPUT
11	O	ACC SW
12	R/L	DOOR SW (AS)
13	GR	DOOR SW (RR)
14	-	-
15	L/W	TPMS (MODE TRIGGER SWITCH)

Terminal No.	Color of Wire	Signal Name
16	-	-
17	-	-
18	P	KEYLESS AND AUTO LIGHT SENSOR GND
19	V/W	KEYLESS TUNER POWER SUPPLY OUTPUT
20	G/W	KEYLESS TUNER SIGNAL
21	G	IMMOBILIZER ANTENNA SIGNAL (CLOCK)
22	W/V	ANTI-PINCH SERIAL LINK (RX, TX)
23	G/O	SECURITY INDICATOR OUTPUT
24	-	-
25	BR	IMMOBILIZER ANTENNA SIGNAL (RX, TX)
26	Y/L	REAR WIPER AUTO STOP SW2
27	W/R	AIRCON SW
28	L/R	BLOWER FAN SW
29	W/B	HAZARD SW
30	Y/BR	GLASS HATCH OPENER
31	-	-
32	R/G	OUTPUT 5
33	R/Y	OUTPUT 4
34	L	OUTPUT 3
35	O/B	OUTPUT 2
36	R/W	OUTPUT 1
37	B/R	KEY SW
38	W/L	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



41	42	43	44	45	46	47	48	49
50	51	52	53	54	55			

Terminal No.	Color of Wire	Signal Name
41	-	-
42	GR	GLASS HATCH SW
43	R/B	BACK DOOR SW
44	O	REAR WIPER AUTO STOP SW1
45	-	-
46	-	-
47	SB	DOOR SW (DR)
48	R/Y	DOOR SW (RL)
49	R	LUGGAGE LAMP OUTPUT
50	-	-
51	G/Y	TRAILER FLASH OUTPUT (RIGHT)
52	G/B	TRAILER FLASH OUTPUT (LEFT)
53	L/W	GLASS HATCH OPENER OUTPUT
54	Y	REAR WIPER MOTOR OUTPUT 2
55	SB	REAR WIPER MOTOR OUTPUT 1

BCM (BODY CONTROL MODULE)

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Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE

12	13	10	9		8	7	
14	11	1	2	3	4	5	6



Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			



Terminal No.	Color of Wire	Signal Name
1	R/W	INPUT 1
2	O/B	INPUT 2
3	L	INPUT 3
4	R/Y	INPUT 4
5	R/G	INPUT 5
6	V	OUTPUT 1
7	G/B	OUTPUT 2
8	SB	OUTPUT 5
9	G/Y	OUTPUT 4
10	Y	OUTPUT 3
11	V/W	WASHER MOTOR
12	B	GND
13	W/R	WASHER MOTOR
14	R/L	IGN

Terminal No.	Color of Wire	Signal Name
56	R/G	BATTERY SAVER OUTPUT
57	Y/R	BAT (FUSE)
58	W/R	AUTO LIGHT SENSOR INPUT 2
59	G	DOOR UNLOCK OUTPUT (DR)
60	G/B	FLASHER OUTPUT (LEFT)
61	G/Y	FLASHER OUTPUT (RIGHT)
62	R/W	STEP LAMP OUTPUT
63	L	ROOM LAMP OUTPUT
64	-	-
65	V	DOOR LOCK OUTPUT (ALL)
66	G/Y	DOOR UNLOCK OUTPUT (OTHER)
67	B	GND (POWER)
68	W/L	POWER WINDOW POWER SUPPLY (LINKED TO RAP)
69	W/R	POWER WINDOW POWER SUPPLY (BAT)
70	W/B	BAT (F/L)

ABMIA1060GB

Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

Display contents of CONSULT	Fail-safe	Cancellation
U1000: CAN COMM CIRCUIT	Inhibit engine cranking	When the BCM re-establishes communication with the other modules.

DTC Inspection Priority Chart

INFOID:000000005337693

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

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT
2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> C1729: VHCL SPEED SIG ERR C1735: IGNITION SIGNAL
4	<ul style="list-style-type: none"> C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RL C1712: [CHECKSUM ERR] FL C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1715: [CHECKSUM ERR] RL C1716: [PRESSDATA ERR] FL C1717: [PRESSDATA ERR] FR C1718: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RL C1720: [CODE ERR] FL C1721: [CODE ERR] FR C1722: [CODE ERR] RR C1723: [CODE ERR] RL C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1726: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RL

DTC Index

INFOID:000000005337694

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-32
B2190: NATS ANTENNA AMP	—	—	—	SEC-31

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

CONSULT display	Fail-safe	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page	
B2191: DIFFERENCE OF KEY	—	—	—	SEC-34	A
B2192: ID DISCORD BCM-ECM	—	—	—	SEC-35	B
B2193: CHAIN OF BCM-ECM	—	—	—	SEC-37	
B2552: INTELLIGENT KEY	—	—	—	SEC-39	C
B2590: NATS MALFUNCTION	—	—	—	SEC-40	
C1708: [NO DATA] FL	—	—	—	WT-14	D
C1709: [NO DATA] FR	—	—	—	WT-14	
C1710: [NO DATA] RR	—	—	—	WT-14	
C1711: [NO DATA] RL	—	—	—	WT-14	E
C1712: [CHECKSUM ERR] FL	—	—	—	WT-16	
C1713: [CHECKSUM ERR] FR	—	—	—	WT-16	
C1714: [CHECKSUM ERR] RR	—	—	—	WT-16	F
C1715: [CHECKSUM ERR] RL	—	—	—	WT-16	
C1716: [PRESSDATA ERR] FL	—	—	—	WT-18	G
C1717: [PRESSDATA ERR] FR	—	—	—	WT-18	
C1718: [PRESSDATA ERR] RR	—	—	—	WT-18	
C1719: [PRESSDATA ERR] RL	—	—	—	WT-18	H
C1720: [CODE ERR] FL	—	—	—	WT-16	
C1721: [CODE ERR] FR	—	—	—	WT-16	I
C1722: [CODE ERR] RR	—	—	—	WT-16	
C1723: [CODE ERR] RL	—	—	—	WT-16	
C1724: [BATT VOLT LOW] FL	—	—	—	WT-16	J
C1725: [BATT VOLT LOW] FR	—	—	—	WT-16	
C1726: [BATT VOLT LOW] RR	—	—	—	WT-16	
C1727: [BATT VOLT LOW] RL	—	—	—	WT-16	K
C1729: VHCL SPEED SIG ERR	—	—	—	WT-19	
C1735: IGNITION SIGNAL	—	—	—	WT-20	INL

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000005146751

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 <ul style="list-style-type: none"> • Front room/map lamp assembly • Personal lamp 2nd and 3rd row • Cargo room lamp • Front and rear step lamps • Vanity mirror lamps • Ignition keyhole illumination • Puddle lamps • Foot lamps 	<ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM 	Battery saver output/power supply circuit Refer to INL-17 .
Some or all of the following interior room lamps do not turn ON/OFF <ul style="list-style-type: none"> • Puddle lamps • Front room/map lamp assembly • Personal lamp 2nd row • Personal lamp 3rd row 	<ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM 	Door switch circuit Refer to DLK-71 .
		Interior room lamp control circuit Refer to INL-19 .
Some or all of the following lamps do not turn ON/OFF <ul style="list-style-type: none"> • Front step lamps • Rear step lamps • Foot lamps 	<ul style="list-style-type: none"> • Harness between BCM and step lamps and foot lamps • BCM 	Step lamp circuit Refer to INL-22 .
Cargo lamp does not turn ON/OFF	<ul style="list-style-type: none"> • Harness between BCM and cargo lamp • BCM 	Cargo lamp control circuit Refer to INL-24 .
Ignition keyhole illumination does not turn ON/OFF	<ul style="list-style-type: none"> • Harness between BCM and ignition keyhole illumination • BCM 	Ignition keyhole illumination control circuit Refer to INL-26 .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to BCS-19, "INT LAMP : CONSULT-III Function (BCM - INT LAMP)" .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to BCS-26, "BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)" .

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000005221511

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

INFOID:000000005221512

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- 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

1. Connect both battery cables.

NOTE:

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

INFOID:0000000005146753

- 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 a 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.

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

INTERIOR ROOM LAMP

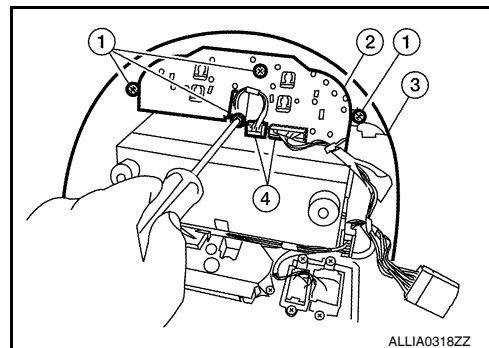
Removal and Installation

INFOID:000000005146754

MAP LAMP

Removal

1. Remove overhead console (3). Refer to [INT-17, "Removal and Installation"](#).
2. Disconnect connectors (4) and remove the map lamp screws (1), then remove map lamp (2) from overhead console.



Installation

Installation is in the reverse order of removal.

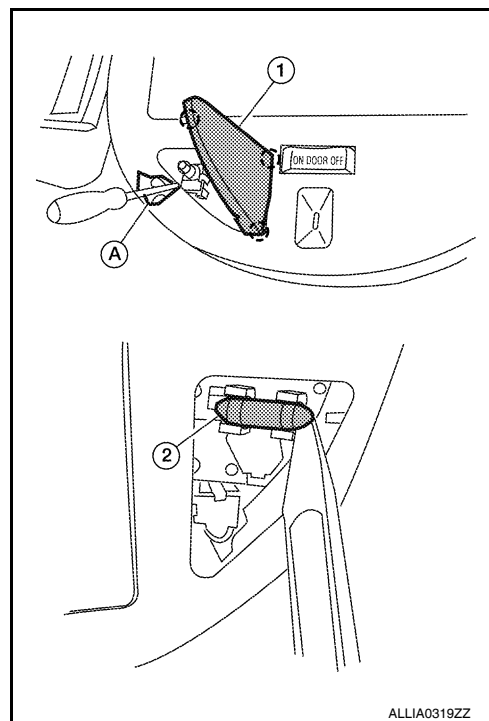
Bulb Replacement

1. Using a suitable tool (A), remove map lamp lens (1).
○: Pawl
2. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Map lamp bulb : 12V - 8W

CAUTION:

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



VANITY MIRROR LAMP

Removal

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to [INT-17, "Removal and Installation"](#).

Installation

Installation is in the reverse order of removal.

Bulb Replacement

INTERIOR ROOM LAMP

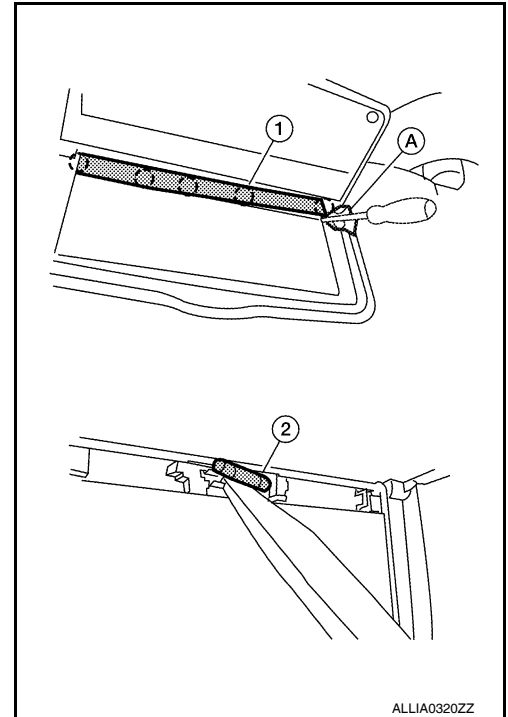
< ON-VEHICLE REPAIR >

1. Using a suitable tool (A), release the tabs and remove the vanity mirror lamp lens (1).
2. Release one side of the bulb (2) from the tab, then pull straight out to remove.

Vanity mirror lamp bulb : 12V - 1.8W

CAUTION:

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



GLOVE BOX LAMP

Removal

1. Remove instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).
2. Rotate glove box lamp socket and rotate counterclockwise to release from steering member.

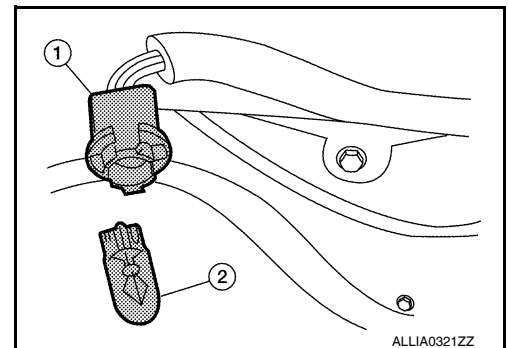
Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Remove instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).
2. Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W

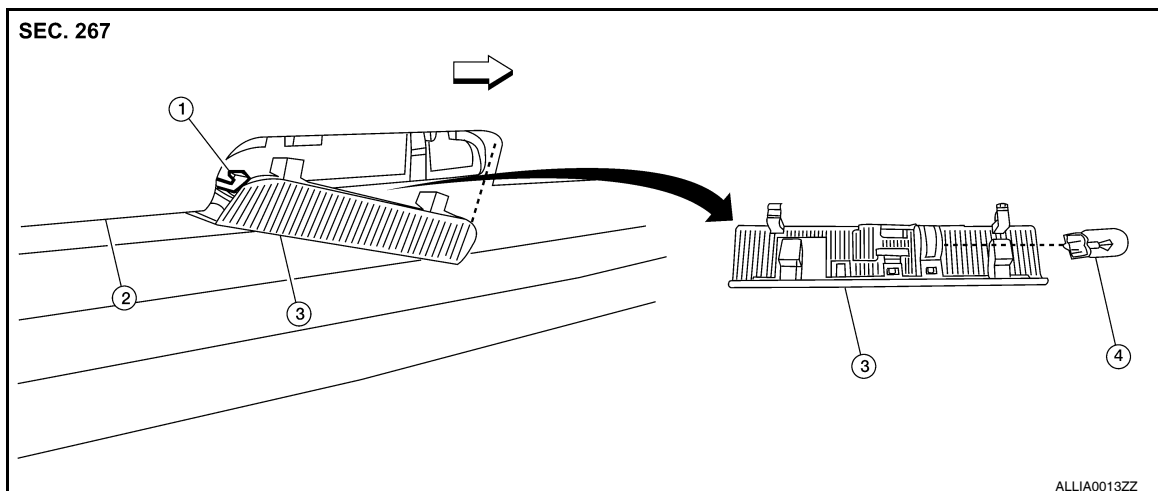


STEP LAMP

Removal

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >



- | | | |
|------------------------|------------------|--------------------------|
| 1. Step lamp connector | 2. Door finisher | 3. Step lamp lens/socket |
| 4. Step lamp bulb | ← Vehicle front | |

1. Insert a suitable tool between door finisher and step lamp lens/socket to release the pawls.
2. Disconnect the step lamp connector, then remove step lamp.

Installation

Installation is in the reverse order of removal.

Bulb Replacement

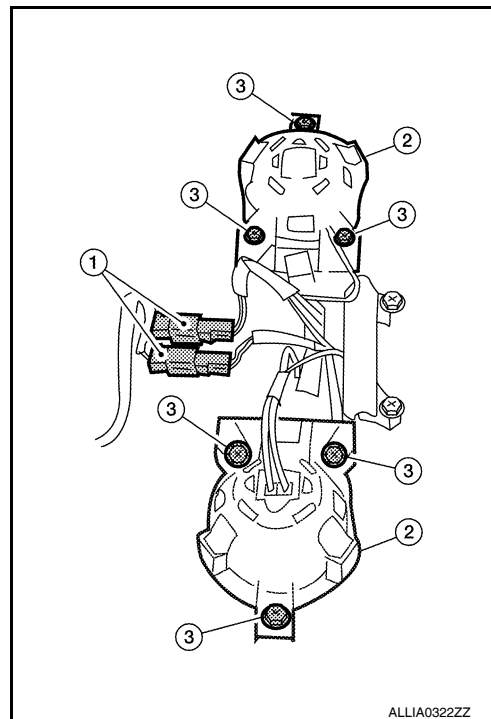
1. Remove the step lamp lens/socket.
2. Pull the bulb straight out to remove.

Step lamp bulb : 12V - 3.8W

PERSONAL LAMP (if equipped)

Removal

1. Remove overhead console. Refer to [INT-17, "Removal and Installation"](#).
2. Remove personal lamp screws (3).
3. Disconnect personal lamp electrical connectors (1), then remove personal lamps (2) from overhead console.



Installation

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

Installation is in the reverse order of removal.

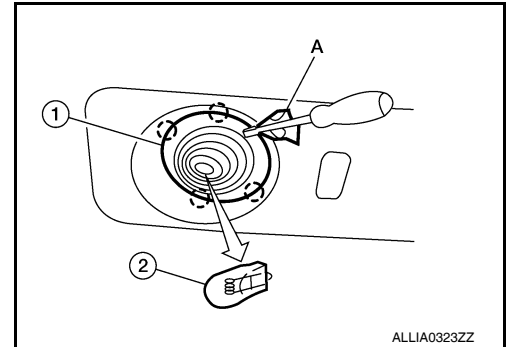
Bulb Replacement

1. Using a suitable tool (A), release the pawls and remove personal lamp lens (1).
○: Pawl
2. Pull bulb (2) straight out to remove.

Personal lamp bulb : 12V - 6W

CAUTION:

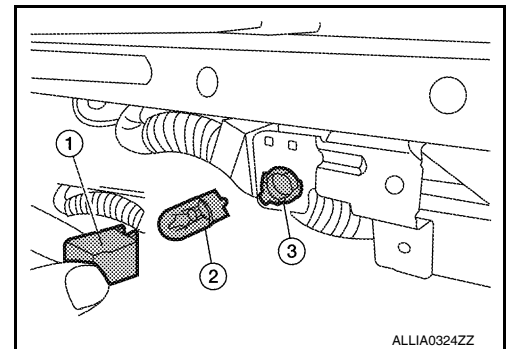
Wrap a cloth around tool to protect the housing and lens.



FOOTWELL LAMP

Removal

Rotate footwell lamp socket (3) counterclockwise from bracket.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Release the pawls and remove bulb shield from bracket (1).
2. Pull bulb (2) straight out from footwell lamp socket (3) to remove.

Footwell lamp bulb : 12V - 3.4W

ILLUMINATION

< ON-VEHICLE REPAIR >

ILLUMINATION

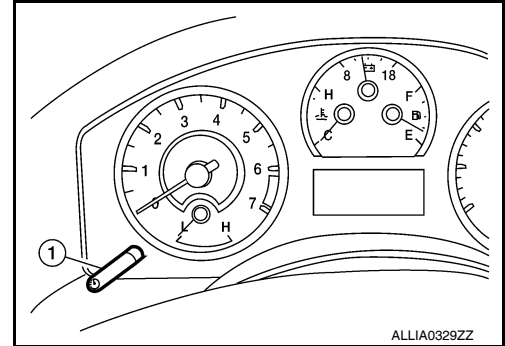
Removal and Installation

INFOID:000000005146755

ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to [MWI-100, "Removal and Installation"](#).



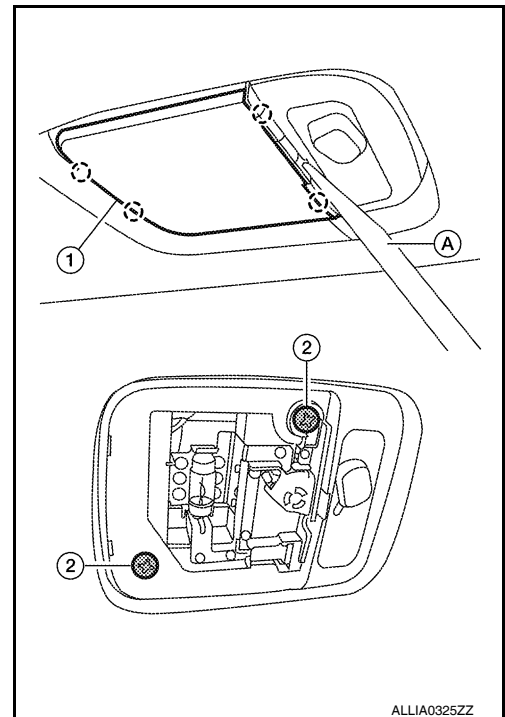
Installation

Installation is in the reverse order of removal.

CARGO LAMP (if equipped)

Removal

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

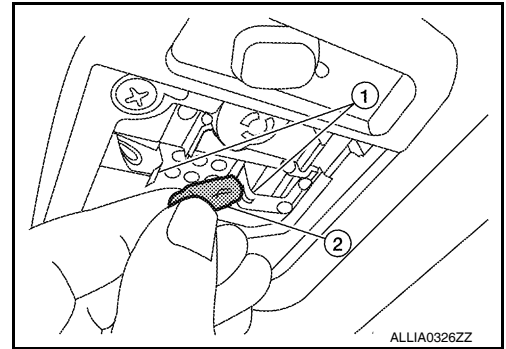
ILLUMINATION

< ON-VEHICLE REPAIR >

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



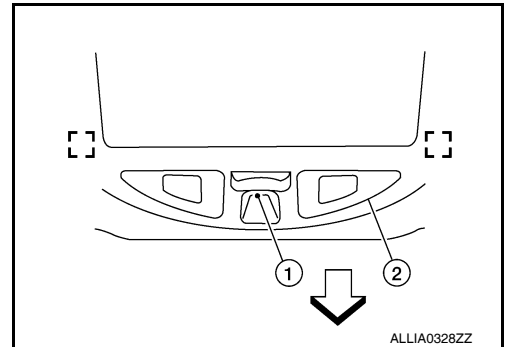
CONSOLE ILLUMINATION LAMP (if equipped)

Removal

The console illumination lamp (1) is replaced as part of the front roof console (2). Refer to [INT-17, "Removal and Installation"](#).

⇐: Vehicle front

[]: metal clip

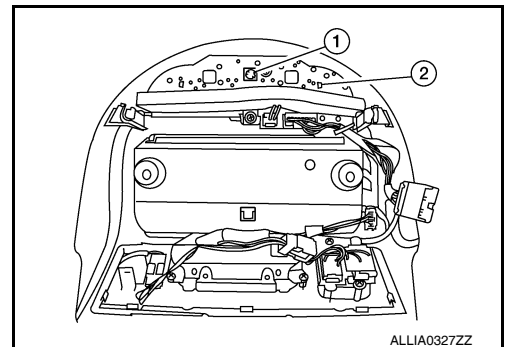


Installation

Installation is in the reverse order of removal.

Bulb Replacement

1. Remove front roof console. Refer to [INT-17, "Removal and Installation"](#).
2. Rotate console illumination lamp bulb (1) counterclockwise, then pull straight out away from map lamp assembly (2) to remove.



BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Interior Lamp/Illumination

INFOID:0000000005146756

Item	Wattage (W)*
Map Lamp	8
Vanity mirror lamp	1.32
Glove box lamp	3.4
Step lamp	3.8
Personal lamp	6
Footwell lamp	3.4
Cargo lamp	8
Console illumination lamp	-

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

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