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SECTION INL

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

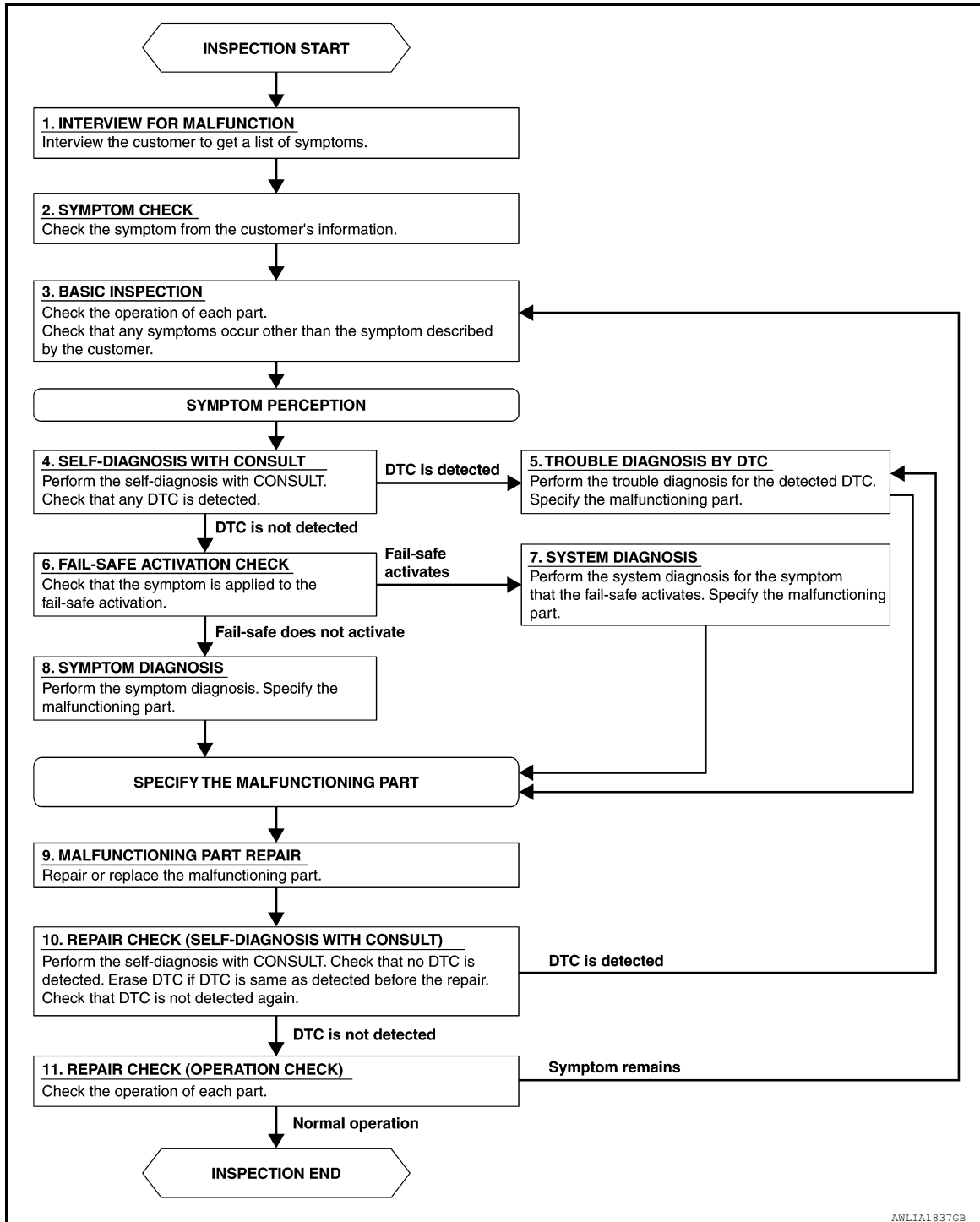
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000011288423

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2

2. SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3

3. BASIC INSPECTION

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

>> GO TO 4

4. SELF-DIAGNOSIS WITH CONSULT

Perform the self-diagnosis with CONSULT. 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. Refer to [INL-66, "Symptom Table"](#). 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)

Perform the self-diagnosis with CONSULT. 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

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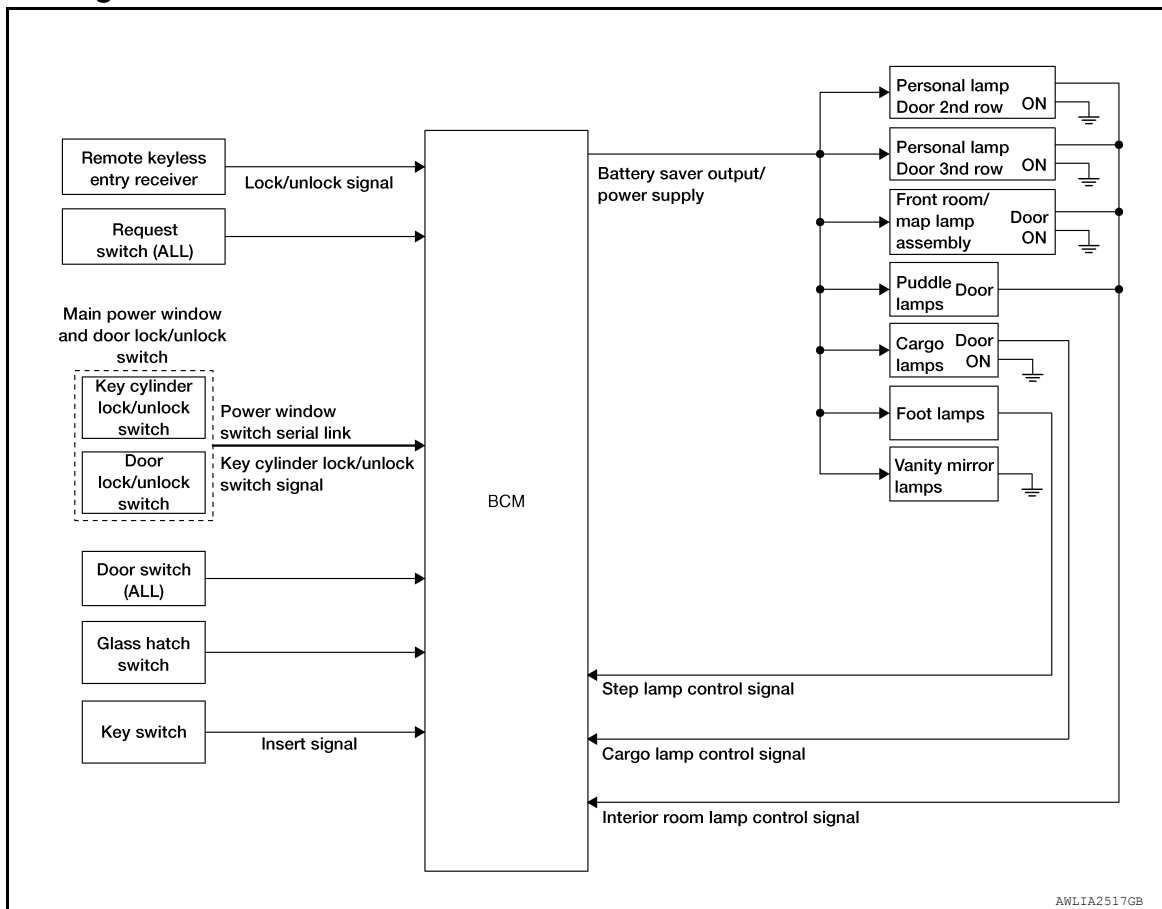
INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
 - *Front room/map lamps, personal lamp 2nd row, personal lamp 3rd row (when lamp switch is in DOOR position) and puddle lamps (if equipped).
 - Cargo lamp is controlled by the cargo lamp control function of the BCM.
 - Foot lamps (if equipped) are controlled by the step lamp control function of the BCM.
- The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches, the key switch and lock solenoid (without Intelligent Key) or the key switch and ignition knob switch (with Intelligent Key).

ROOM LAMP TIMER OPERATION

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

- When the front door LH is unlocked [with Intelligent Key (with Intelligent Key), key fob (without 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 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 (with Intelligent Key), key fob (without 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.

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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 10 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

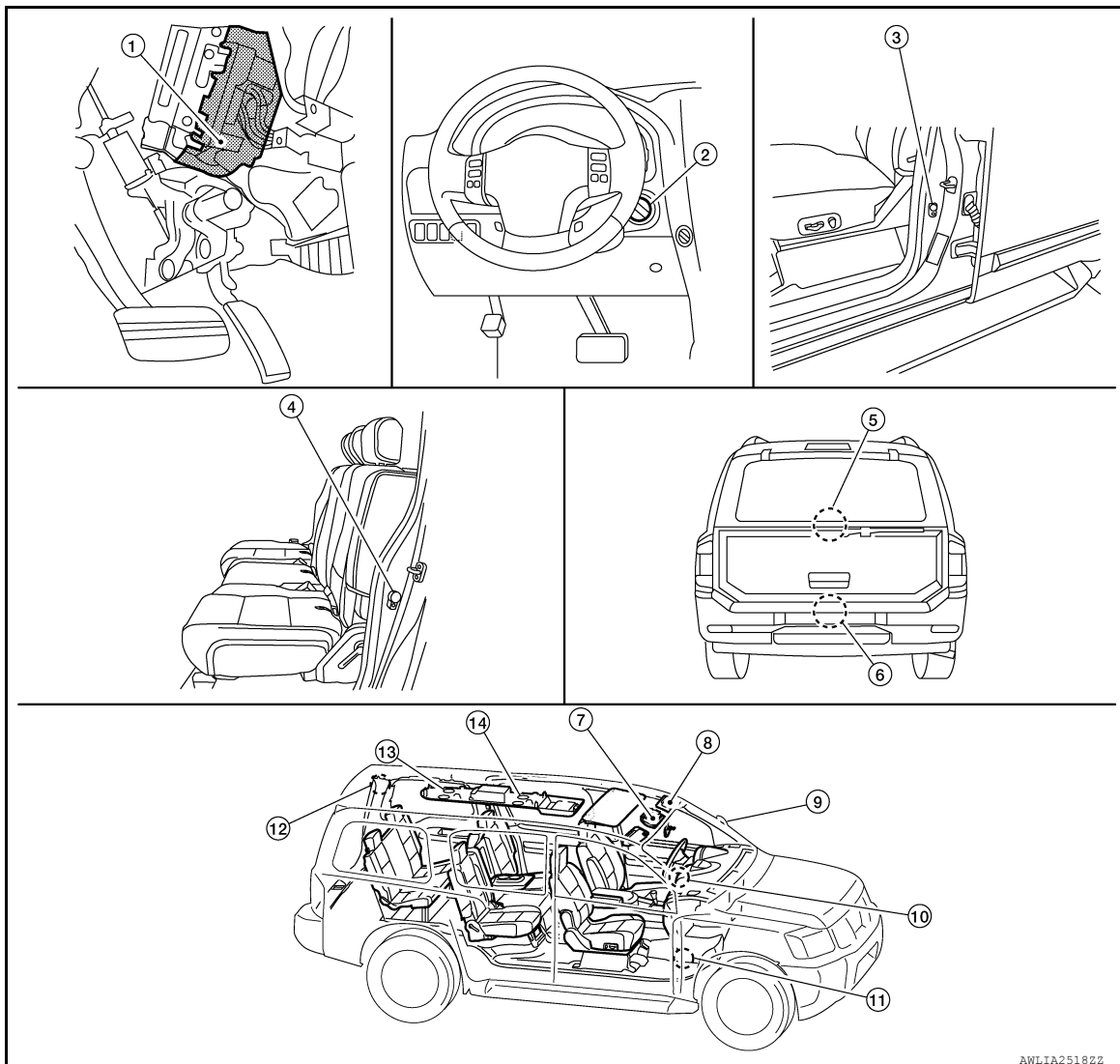
After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from an Intelligent Key (with Intelligent Key), key fob (without 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 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.

Component Parts Location

INFOID:000000011288426



- | | | |
|--|---|--|
| 1. BCM M18, M19, M20 (view with instrument lower panel LH removed) | 2. Key switch and ignition knob switch M12 (with Intelligent Key)
Key switch and key lock solenoid M27 (without Intelligent Key) | 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 switch D407 (without power back door)
Back door latch (door ajar switch) D503 (with power back door) |

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

- | | | |
|--|---|---|
| 7. Front room/map lamp assembly R102 | 8. Vanity lamp LH R3
Vanity lamp RH R8 | 9. Door mirror LH (puddle lamp) D4 (if equipped)
Door mirror RH (puddle lamp) D107 (if equipped) |
| 10. Ignition keyhole illumination M150 | 11. Foot lamp LH M99 (if equipped)
Foot lamp RH M100 (if equipped) | 12. Cargo lamp B153 |
| 13. Personal lamp 3rd row R205 | 14. Personal lamp 2nd row R203 | |

Component Description

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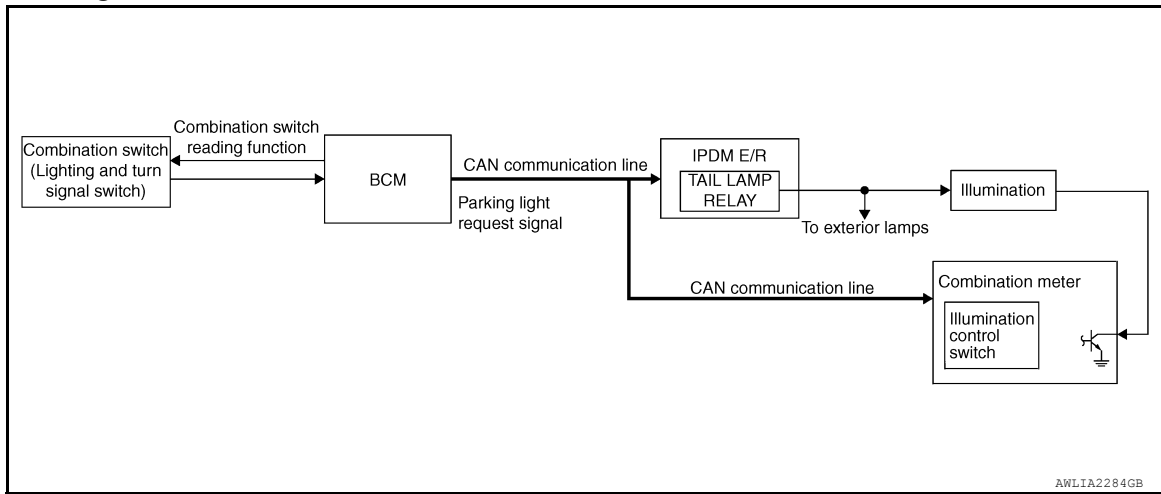
Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamps and cargo lamp.
Key switch and ignition knob switch (with Intelligent Key)	Provides key in ignition status to the BCM.
Key switch and key lock solenoid (without Intelligent Key)	
Door switches	Provides door OPEN/CLOSED status to the BCM.
Glass hatch switch	Provides glass hatch OPEN/CLOSED status to the BCM.
Back door latch (with power back door)	Provides back door OPEN/CLOSED status to the BCM.
Back door switch (without power back door)	
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

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

INFOID:000000011288429

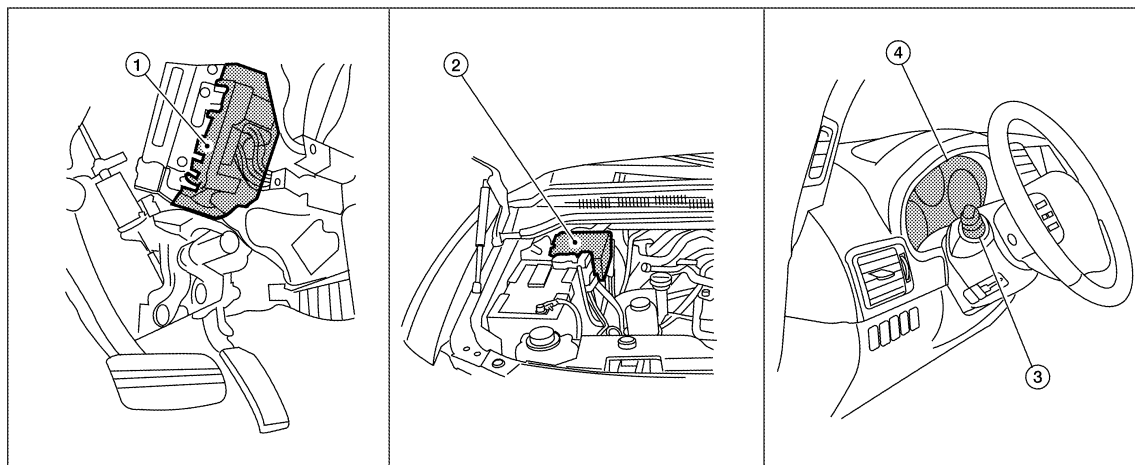
The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives 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 10 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 seconds 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:000000011288430



ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

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:000000011288431

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)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011540237

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
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	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Back door open	TRUNK			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×	×	×		
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000011540238

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
BACK DOOR SW [On/Off]	Indicates condition of back door switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
I-KEY LOCK* [On/Off]	Indicates condition of lock signal from Intelligent Key.
I-KEY UNLOCK* [On/Off]	Indicates condition of unlock signal from Intelligent Key.
KEYLESS LOCK** [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK** [On/Off]	Indicates condition of unlock signal from keyfob.

* : with Intelligent Key

** : without Intelligent Key

ACTIVE TEST

Test Item	Description
IGN ILLUM	This test is able to check ignition keyhole illumination operation [On/Off].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].
LUGGAGE LAMP TEST	This test is able to check cargo lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description
SET I/L D-UNLCK INTCON	Off	Interior room lamp timer function OFF.
	On*	Interior room lamp timer function ON.
ROOM LAMP ON TIME SET	MODE7	0 sec.
	MODE6	5 sec.
	MODE5	4 sec.
	MODE4	3 sec.
	MODE3	2 sec.
	MODE2*	1 sec.
	MODE1	0.5 sec.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
ROOM LAMP OFF TIME SET	MODE7	0 sec.	Sets the interior room lamp gradual dimming time.
	MODE6	5 sec.	
	MODE5	4 sec.	
	MODE4	3 sec.	
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	

* : Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000011540239

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
BACK DOOR SW [On/Off]	Indicates condition of back door switch.
KEY CYL LK SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
I-KEY LOCK* [On/Off]	Indicates condition of lock signal from Intelligent Key.
I-KEY UNLOCK* [On/Off]	Indicates condition of unlock signal from Intelligent Key.
KEYLESS LOCK** [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK** [On/Off]	Indicates condition of unlock signal from keyfob.

* : with Intelligent Key

** : without Intelligent Key

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
ROOM LAMP TIMER SET	MODE2	60 min	Sets the interior room lamp battery saver timer operating time.
	MODE1*	10 min	

*: Initial setting

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000011540241

Regarding Wiring Diagram information, refer to [BCS-46, "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?

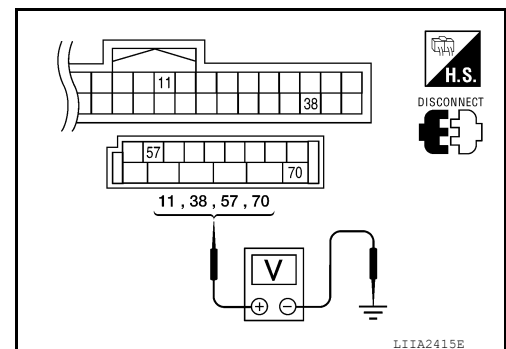
YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

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

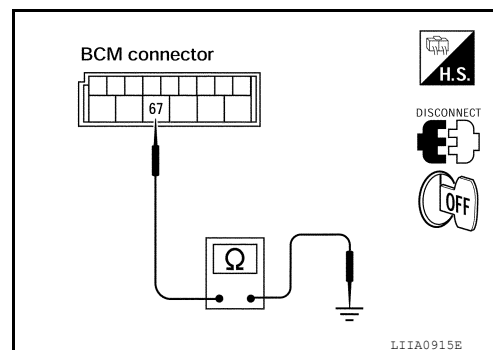
< DTC/CIRCUIT DIAGNOSIS >

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.



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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

INFOID:000000011288436

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:000000011288437

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

Ⓢ WITH CONSULT

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 foot lamps and puddle lamps.
 - Foot lamps (if equipped)
 - Puddle lamps (if equipped)
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 lamp OFF

ON : Interior room lamp ON

Is the inspection result normal?

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

NO >> Refer to [INL-16, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011288438

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram"](#).

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

Ⓢ WITH CONSULT

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.

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to [BCS-54, "Removal and Installation"](#).

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - BCM M20
 - Ignition keyhole illumination

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- Door mirror LH (with puddle lamps) (if equipped)
 - Door mirror RH (with puddle lamps) (if equipped)
 - Foot lamp LH (if equipped)
 - Foot lamp RH (if equipped)
 - 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		Each interior room lamp			Continuity
Connector	Terminal	Connector	Terminal		
M20	56	Ignition keyhole illumination	M150	1	Yes
		Door mirror LH (with puddle lamps) (if equipped)	D4	12	
		Door mirror RH (with puddle lamps) (if equipped)	D107	12	
		Foot lamp LH (if equipped)	M99	1	
		Foot lamp RH (if equipped)	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

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000011288439

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

- Puddle lamps (if equipped)
- 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:000000011288440

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 (if equipped)

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

Ⓟ WITH CONSULT

1. Place the front room/map lamp assembly switch in the DOOR position.
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-18, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011288441

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram"](#).

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

Ⓟ WITH CONSULT

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.

(+)		(-)	INT LAMP	Voltage
Connector	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

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20, door mirror connectors (if equipped with puddle lamps) and front room/map lamp assembly connector.
3. Check continuity between BCM connector M20 terminal 63 and the door mirror connectors terminal 13 and front room/map lamp assembly connector R102 terminal 1.

BCM		Interior room lamp			Continuity
Connector	Terminal	Component	Connector	Terminal	
M20	63	Door mirror LH (if equipped with puddle lamps)	D4	13	Yes
		Door mirror RH (if equipped with puddle lamps)	D107	13	
		Front room/map lamp	R102	1	

4. Reconnect the front room/map lamp assembly connector.
5. Check continuity between BCM connector M20 terminal 63 and the 2nd and 3rd row personal lamp connectors terminal 1.

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

Is the inspection result normal?

YES >> Check interior room lamps for an open. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-70, "Removal and Installation"](#) or [EXL-142, "Removal and Installation"](#).

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 (if equipped with puddle lamps) 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-54, "Removal and Installation"](#). If NG, replace interior room lamp. Refer to [INL-70, "Removal and Installation"](#) or [EXL-142, "Removal and Installation"](#).

NO >> Repair the harness or connectors.

FOOT LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FOOT LAMP CIRCUIT

Description

INFOID:000000011288442

Controls the foot lamps (if equipped) (ground side) to turn the lamps ON and OFF.

Component Function Check

INFOID:000000011288443

CAUTION:

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

- Battery saver output/power supply
- Foot lamp bulbs (if equipped)

1. CHECK FOOT LAMP OPERATION

Ⓟ WITH CONSULT

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 foot lamps (if equipped) turn ON/OFF.

ON : Step lamp ON
OFF : Step lamp OFF

Is the inspection result normal?

- YES >> Foot lamp circuit is normal.
NO >> Refer to [INL-20, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011288444

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram"](#).

1. CHECK FOOT LAMP OUTPUT

Ⓟ WITH CONSULT

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 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 >> Foot lamp control circuit is operating normally.
Fixed ON>> GO TO 3
Fixed OFF>> GO TO 2

2. CHECK FOOT LAMP OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and foot lamp connectors (if equipped).
3. Check continuity between BCM connector M20 terminal 62 and foot lamp connectors terminal 2.

Connector	Terminal	Connector	Terminal	Continuity	
M20	62	Foot lamp LH (if equipped)	M99	2	Yes
		Foot lamp RH (if equipped)	M100	2	

FOOT LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Check foot lamp for an open. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace foot lamp. Refer to [INL-70, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

3. CHECK FOOT LAMP SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector M20 and foot lamp connectors (if equipped).
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 foot lamp for a short circuit. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#). If NG, replace foot lamp. Refer to [INL-70, "Removal and Installation"](#).
- NO >> Repair the harness or connectors.

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INL

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description

INFOID:000000011288445

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

Component Function Check

INFOID:000000011288446

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb

1.CHECK CARGO LAMP OPERATION

Ⓜ WITH CONSULT

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:000000011288447

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram"](#).

1.CHECK CARGO LAMP OUTPUT

Ⓜ WITH CONSULT

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

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

BCM		Cargo lamp		Continuity
Connector	Terminal	Connector	Terminal	
M19	49	B153	1	Yes

Is the inspection result normal?

CARGO LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Check cargo lamp for an open. If OK, replace BCM. Refer to [BCS-54, "Removal and Installation"](#).
If NG, replace cargo lamp. Refer to [INL-74, "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-54, "Removal and Installation"](#). If NG, replace cargo lamp. Refer to [INL-74, "Removal and Installation"](#).
- NO >> Repair harness or connectors.

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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

INFOID:000000011288448

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

Component Function Check

INFOID:000000011288449

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

Ⓜ WITH CONSULT

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-24, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011288450

Regarding Wiring Diagram information, refer to [INL-37, "Wiring Diagram"](#).

1.CHECK IGNITION KEYHOLE OUTPUT

Ⓜ WITH CONSULT

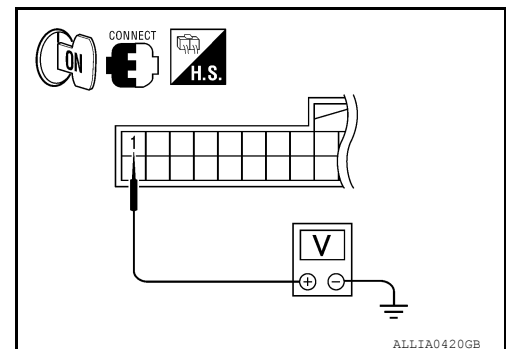
1. Turn ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. While operating the test item, check voltage between BCM connector M18 terminal 1 and ground.

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

Is the inspection result normal?

- YES >> Ignition keyhole illumination 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

< DTC/CIRCUIT 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 the ignition keyhole illumination for an open. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.

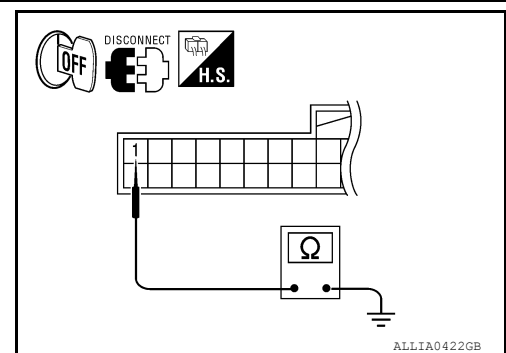
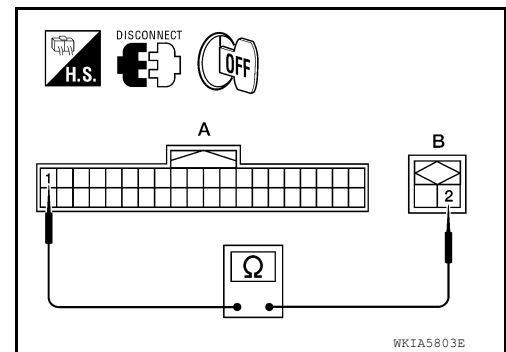
3.CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

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 the ignition keyhole illumination for a short circuit. If OK, replace BCM. Refer to [BCS-54. "Removal and Installation"](#). If NG, replace ignition keyhole illumination.
- NO >> Repair harness or connectors.



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011540257

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength
- Test remote keyless entry keyfob relative signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC ON SW	Ignition switch OFF or ON	Off
	Ignition switch ACC	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
AIR PRESS FL	Front left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value	kPa, kg/cm ² , psi
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
BRAKE SW	Brake pedal released	Off
	Brake pedal applied	On
BUCKLE SW	Seat belt buckle unfastened	Off
	Seat belt buckle fastened	On
BUZZER	Buzzer in combination meter OFF	Off
	Buzzer in combination meter ON	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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
DOOR SW-RR	Rear door RH closed	Off	A
	Rear door RH opened	On	
FAN ON SIG	Blower motor fan switch OFF	Off	B
	Blower motor fan switch ON	On	
FR FOG SW	Front fog lamp switch OFF	Off	C
	Front fog lamp switch ON	On	
FR WASHER SW	Front washer switch OFF	Off	
	Front washer switch ON	On	D
FR WIPER LOW	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
FR WIPER HI	Front wiper switch OFF	Off	E
	Front wiper switch HI	On	
FR WIPER INT	Front wiper switch OFF	Off	F
	Front wiper switch INT	On	
FR WIPER STOP	Any position other than front wiper stop position	Off	
	Front wiper stop position	On	G
HAZARD SW	When hazard switch is not pressed	Off	
	When hazard switch is pressed	On	
HEAD LAMP SW1	Headlamp switch OFF	Off	H
	Headlamp switch 1st	On	
HEAD LAMP SW2	Headlamp switch OFF	Off	I
	Headlamp switch 1st	On	
HI BEAM SW	High beam switch OFF	Off	J
	High beam switch HI	On	
ID REGST FL1	ID registration of front left tire incomplete	YET	
	ID registration of front left tire complete	DONE	K
ID REGST FR1	ID registration of front right tire incomplete	YET	
	ID registration of front right tire complete	DONE	
ID REGST RL1	ID registration of rear left tire incomplete	YET	INL
	ID registration of rear left tire complete	DONE	
ID REGST RR1	ID registration of rear right tire incomplete	YET	
	ID registration of rear right tire complete	DONE	M
IGN ON SW	Ignition switch OFF or ACC	Off	
	Ignition switch ON	On	N
IGN SW CAN	Ignition switch OFF or ACC	Off	
	Ignition switch ON	On	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	O
I-KEY LOCK ¹	LOCK button of Intelligent Key is not pressed	Off	
	LOCK button of Intelligent Key is pressed	On	P
I-KEY PANIC ¹	PANIC button of Intelligent Key is not pressed	Off	
	PANIC button of Intelligent Key is pressed	On	
I-KEY PW DWN ¹	UNLOCK button of Intelligent Key is not pressed	Off	
	UNLOCK button of Intelligent Key is pressed for greater than 3 seconds and driver's window operating in DOWN direction	On	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
I-KEY UNLOCK ¹	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
KEY CYL LK-SW	Door key cylinder LOCK position	On
	Door key cylinder other than LOCK position	Off
KEY CYL UN-SW	Door key cylinder UNLOCK position	On
	Door key cylinder other than UNLOCK position	Off
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK ²	LOCK button of key fob is not pressed	Off
	LOCK button of key fob is pressed	On
KEYLESS PANIC ²	PANIC button of key fob is not pressed	Off
	PANIC button of key fob is pressed	On
KEYLESS UNLOCK ²	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed	On
LIGHT SW 1ST	Lighting switch OFF	Off
	Lighting switch 1st	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5V
	Dark outside of the vehicle	Close to 0V
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
PUSH SW ¹	Return to ignition switch to LOCK position	Off
	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
	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
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
WARNING LAMP	Low tire pressure warning lamp in combination meter OFF	Off
	Low tire pressure warning lamp in combination meter ON	On

1: With Intelligent Key

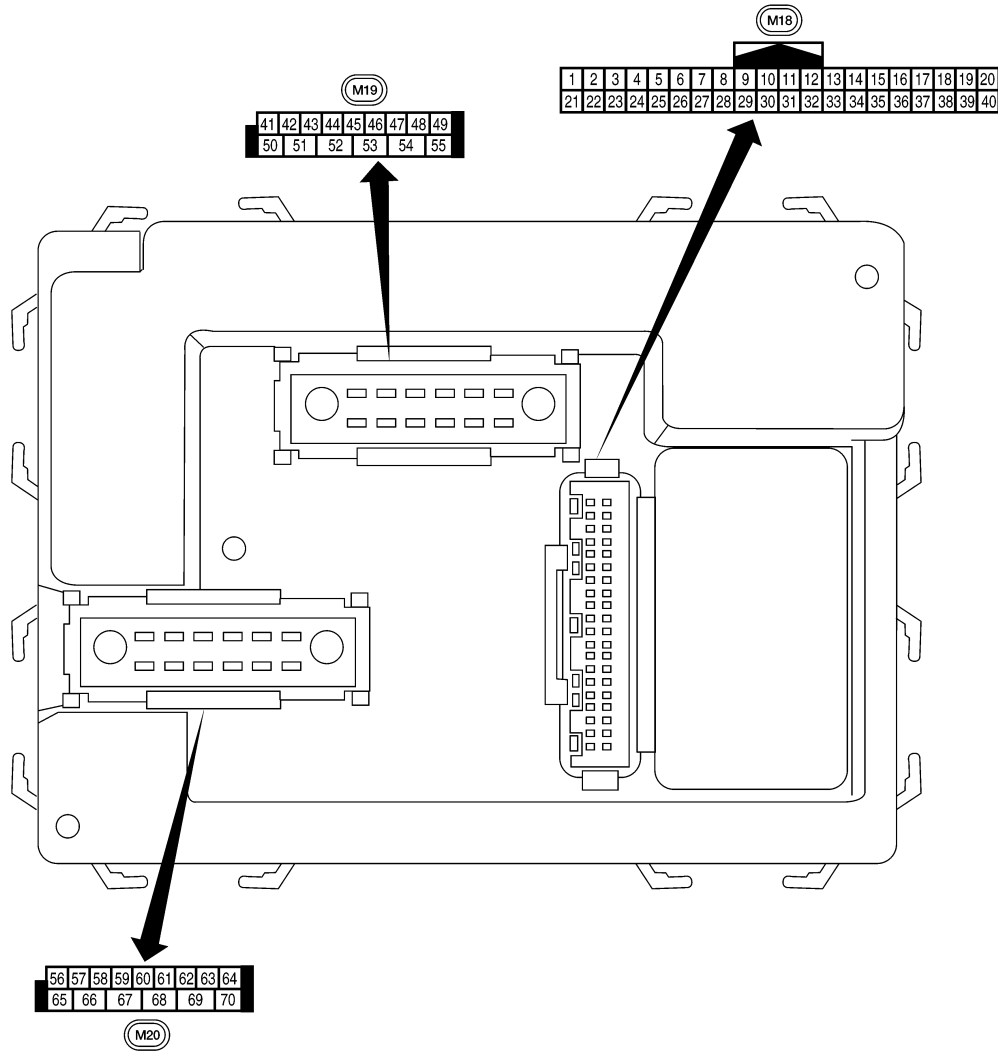
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

2: With remote keyless entry system

Terminal Layout

INFOID:000000011513164



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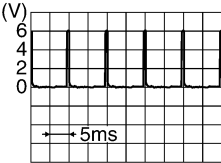

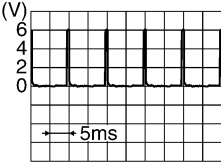
Physical Values

AWMIA154222

INFOID:000000011513165

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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	 <p style="text-align: right; font-size: small;">SKIA5291E</p>
3	G/Y	Combination switch input 4	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5292E</p>
4	Y	Combination switch input 3	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5291E</p>
5	G/B	Combination switch input 2	Input	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5292E</p>
6	V	Combination switch input 1				
9	R/G	Stop lamp switch	Input	OFF	Brake pedal depressed	Battery voltage
					Brake pedal released	0V
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 INFORMATION >

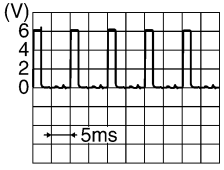
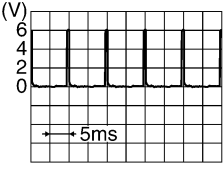
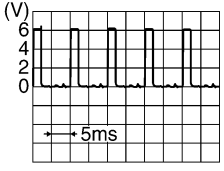
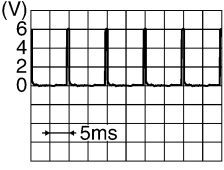
Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
19	V/W	Remote keyless entry receiver (power supply)	Output	OFF	Ignition switch OFF	<p style="text-align: right; font-size: small;">LIIA1893E</p>
20	G/W	Remote keyless entry receiver (signal)	Input	OFF	Stand-by (keyfob buttons released)	<p style="text-align: right; font-size: small;">LIIA1894E</p>
					When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed)	<p style="text-align: right; font-size: small;">LIIA1895E</p>
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	G	BUS	—	—	Ignition switch ON or power window timer operates	<p style="text-align: right; font-size: small;">PIIA2344E</p>
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

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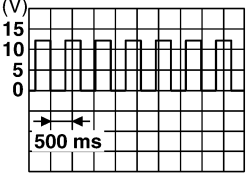
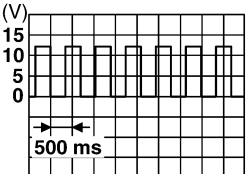
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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
32	R/G	Combination switch output 5	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5291E</p>
33	R/Y	Combination switch output 4	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5292E</p>
34	L	Combination switch output 3	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5291E</p>
35	O/B	Combination switch output 2	Output	ON	Lighting, turn, wiper OFF Wiper dial position 4	 <p style="text-align: right; font-size: small;">SKIA5292E</p>
36	R/W	Combination switch output 1				
37 ¹	B/R	Key switch and ignition knob switch	Input	OFF	Intelligent Key inserted	Battery voltage
					Intelligent Key removed	0V
37 ²	B/R	Key switch and key lock solenoid	Input	OFF	Key inserted	Battery voltage
					Key removed	0V
38	W/L	Ignition switch (ON)	Input	ON	—	Battery voltage
39	L	CAN-H	—	—	—	—
40	P	CAN-L	—	—	—	—
41	GR/R	Rear window defogger switch	Input	ON	Rear window defogger switch ON	0V
					Rear window defogger switch OFF	5V
42	GR	Glass hatch ajar switch	Input	ON	Glass hatch open	0
					Glass hatch closed	Battery

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

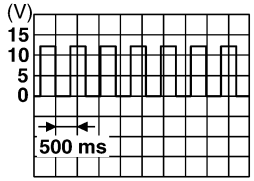
Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)
				Ignition switch	Operation or condition	
43	R/B	Back door switch (without power back door) or back door latch (door ajar switch) (with power back door)	Input	OFF	ON (open)	0V
					OFF (closed)	Battery voltage
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	Y/B	Trailer turn signal (right)	Output	ON	Turn right ON	 <p style="text-align: right; font-size: small;">SKIA3009J</p>
52	G/B	Trailer turn signal (left)	Output	ON	Turn left ON	 <p style="text-align: right; font-size: small;">SKIA3009J</p>
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	0
					ON	Battery voltage

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Terminal	Wire color	Signal name	Signal input/output	Measuring condition		Reference value or waveform (Approx.)	
				Ignition switch	Operation or condition		
56	R/G	Battery saver output	Output	OFF	10 minutes after ignition switch is turned OFF	0V	
				ON	—	Battery voltage	
57	Y/R	Battery power supply	Input	OFF	—	Battery voltage	
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		
61	G/Y	Turn signal (right)	Output	ON	Turn right ON		
62	R/W	Foot 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	

1: With Intelligent Key system

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

2: With remote keyless entry system

Fail Safe

INFOID:0000000011513166

Fail-safe index

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

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:0000000011513167

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:0000000011513168

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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-29
B2013: STRG COMM 1	—	—	—	SEC-30
B2190: NATS ANTENNA AMP	—	—	—	SEC-33 (with I- Key), SEC-143 (without I-Key)
B2191: DIFFERENCE OF KEY	—	—	—	SEC-36 (with I- Key), SEC-146 (without I-Key)
B2192: ID DISCORD BCM-ECM	—	—	—	SEC-37 (with I- Key), SEC-147 (without I-Key)
B2193: CHAIN OF BCM-ECM	—	—	—	SEC-39 (with I- Key), SEC-149 (without I-Key)
B2552: INTELLIGENT KEY	—	—	—	SEC-41
B2590: NATS MALFUNCTION	—	—	—	SEC-42
C1708: [NO DATA] FL	—	—	—	WT-15
C1709: [NO DATA] FR	—	—	—	WT-17
C1710: [NO DATA] RR	—	—	—	WT-17
C1711: [NO DATA] RL	—	—	—	WT-17
C1712: [CHECKSUM ERR] FL	—	—	—	WT-17
C1713: [CHECKSUM ERR] FR	—	—	—	WT-17
C1714: [CHECKSUM ERR] RR	—	—	—	WT-17
C1715: [CHECKSUM ERR] RL	—	—	—	WT-17
C1716: [PRESSDATA ERR] FL	—	—	—	WT-19
C1717: [PRESSDATA ERR] FR	—	—	—	WT-17
C1718: [PRESSDATA ERR] RR	—	—	—	WT-17
C1719: [PRESSDATA ERR] RL	—	—	—	WT-17
C1720: [CODE ERR] FL	—	—	—	WT-17
C1721: [CODE ERR] FR	—	—	—	WT-17
C1722: [CODE ERR] RR	—	—	—	WT-17
C1723: [CODE ERR] RL	—	—	—	WT-17
C1724: [BATT VOLT LOW] FL	—	—	—	WT-17
C1725: [BATT VOLT LOW] FR	—	—	—	WT-17
C1726: [BATT VOLT LOW] RR	—	—	—	WT-17
C1727: [BATT VOLT LOW] RL	—	—	—	WT-17
C1729: VHCL SPEED SIG ERR	—	—	—	WT-21
C1735: IGN_CIRCUIT_OPEN	—	—	—	WT-22

INTERIOR ROOM LAMP CONTROL SYSTEM

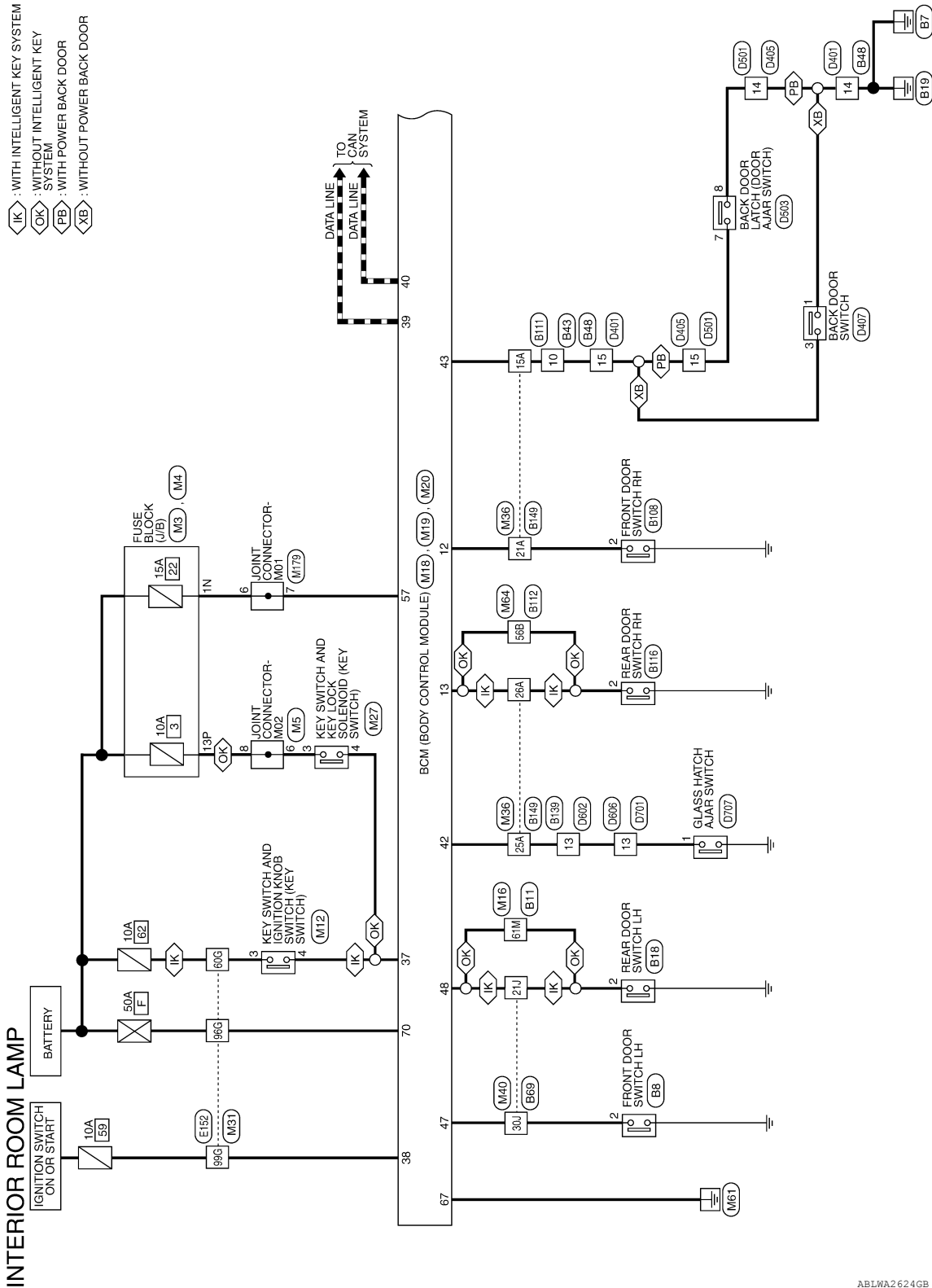
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WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

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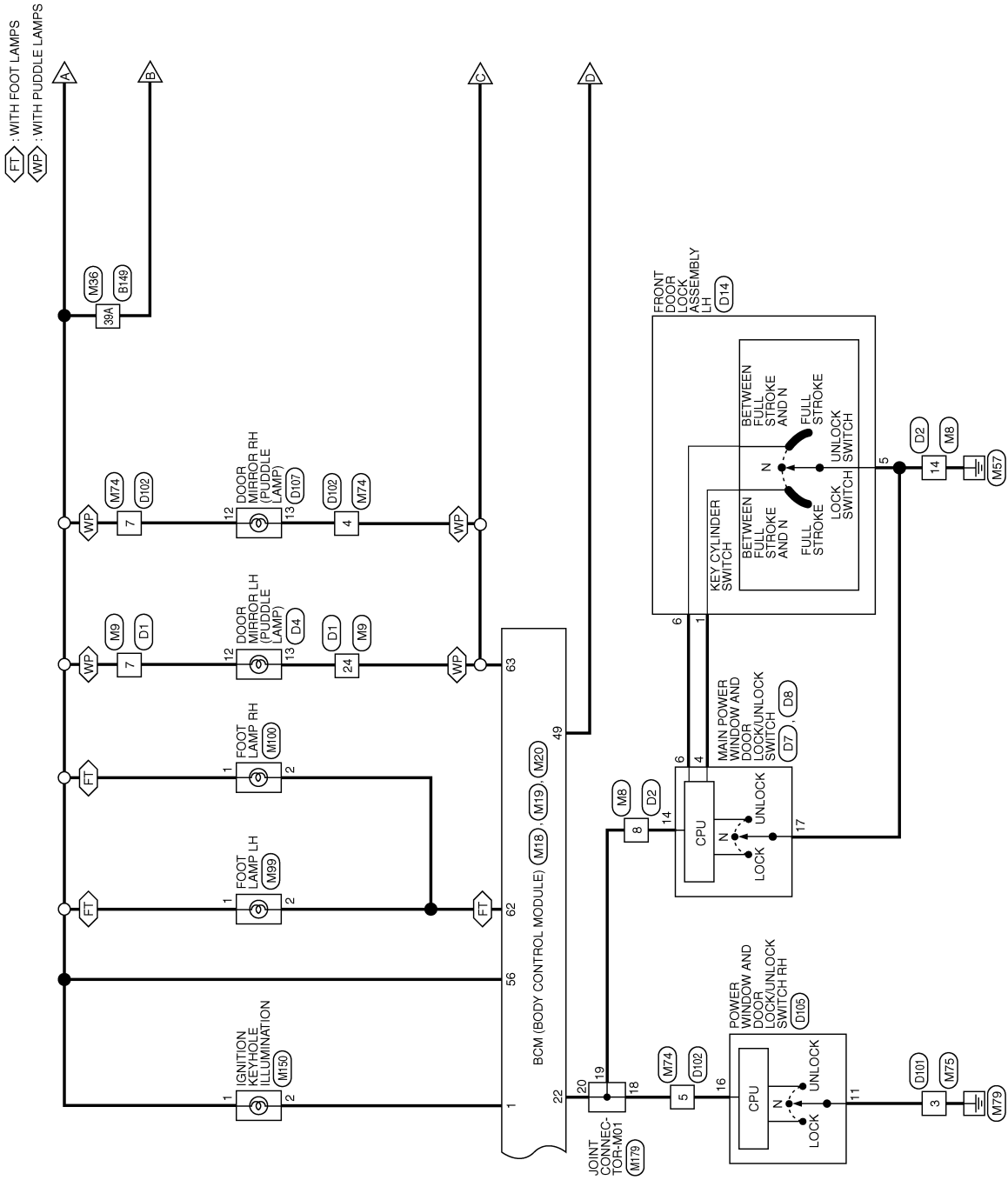


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INTERIOR ROOM LAMP CONTROL SYSTEM

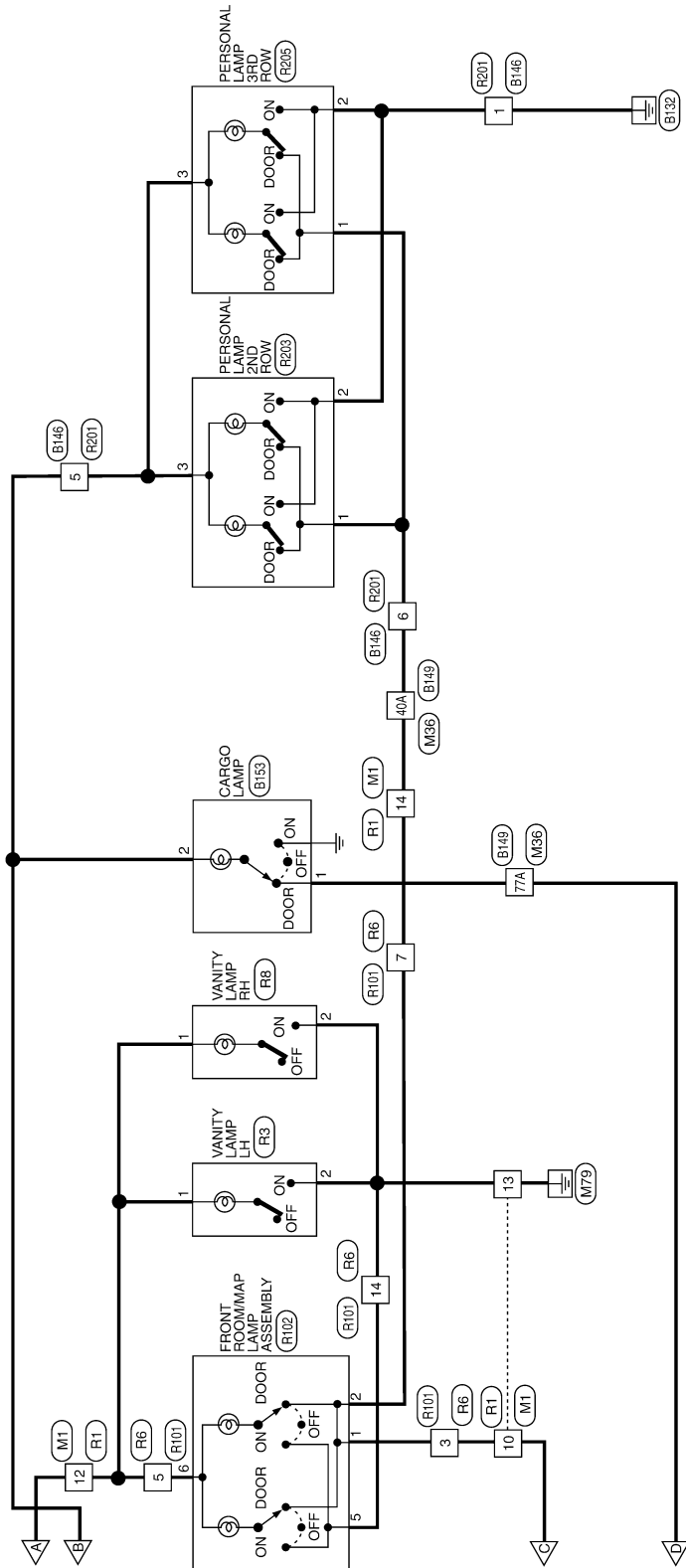
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >



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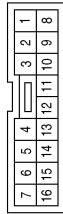
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INTERIOR ROOM LAMP CONTROL SYSTEM

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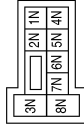
INTERIOR ROOM LAMP CONNECTORS

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



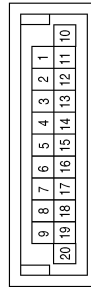
Terminal No.	Color of Wire	Signal Name
1N	Y/R	-

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



Terminal No.	Color of Wire	Signal Name
13P	P	-

Connector No.	M5
Connector Name	JOINT CONNECTOR-M02
Connector Color	BLUE



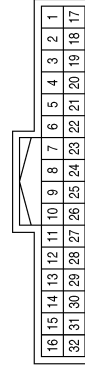
Terminal No.	Color of Wire	Signal Name
6	P	-
8	P	-

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



Terminal No.	Color of Wire	Signal Name
8	G	-
14	B	-

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

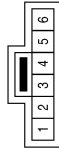


Terminal No.	Color of Wire	Signal Name
7	R/G	-
24	L	-

INTERIOR ROOM LAMP CONTROL SYSTEM

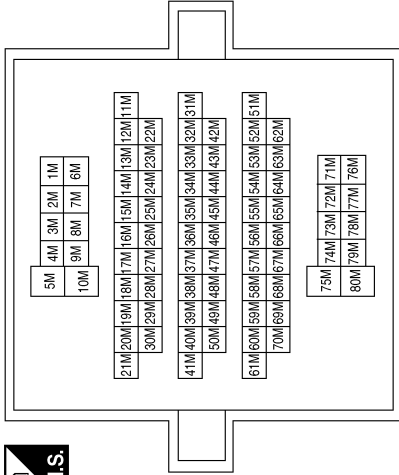
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Connector No.	M12
Connector Name	KEY SWITCH AND IGNITION KNOB SWITCH
Connector Color	GRAY



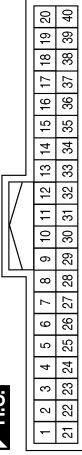
Terminal No.	Color of Wire	Signal Name
3	Y	-
4	B/R	-

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
61M	R/Y	-

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



Terminal No.	Color of Wire	Signal Name
1	BRAW	KEY RING OUTPUT
12	R/L	DOOR SW (AS)
13	GR	DOOR SW (RR)
22	G	ANTI-PINCH SERIAL LINK (FX, TX)
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



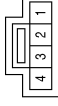
Terminal No.	Color of Wire	Signal Name
42	GR	GLASS HATCH SW
43	R/B	BACK DOOR SW
47	SB	DOOR SW (DR)
48	R/Y	DOOR SW (RL)
49	R	LUGGAGE LAMP OUTPUT

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



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

Connector No.	M27
Connector Name	KEY SWITCH AND KEY LOCK SOLENOID
Connector Color	WHITE



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

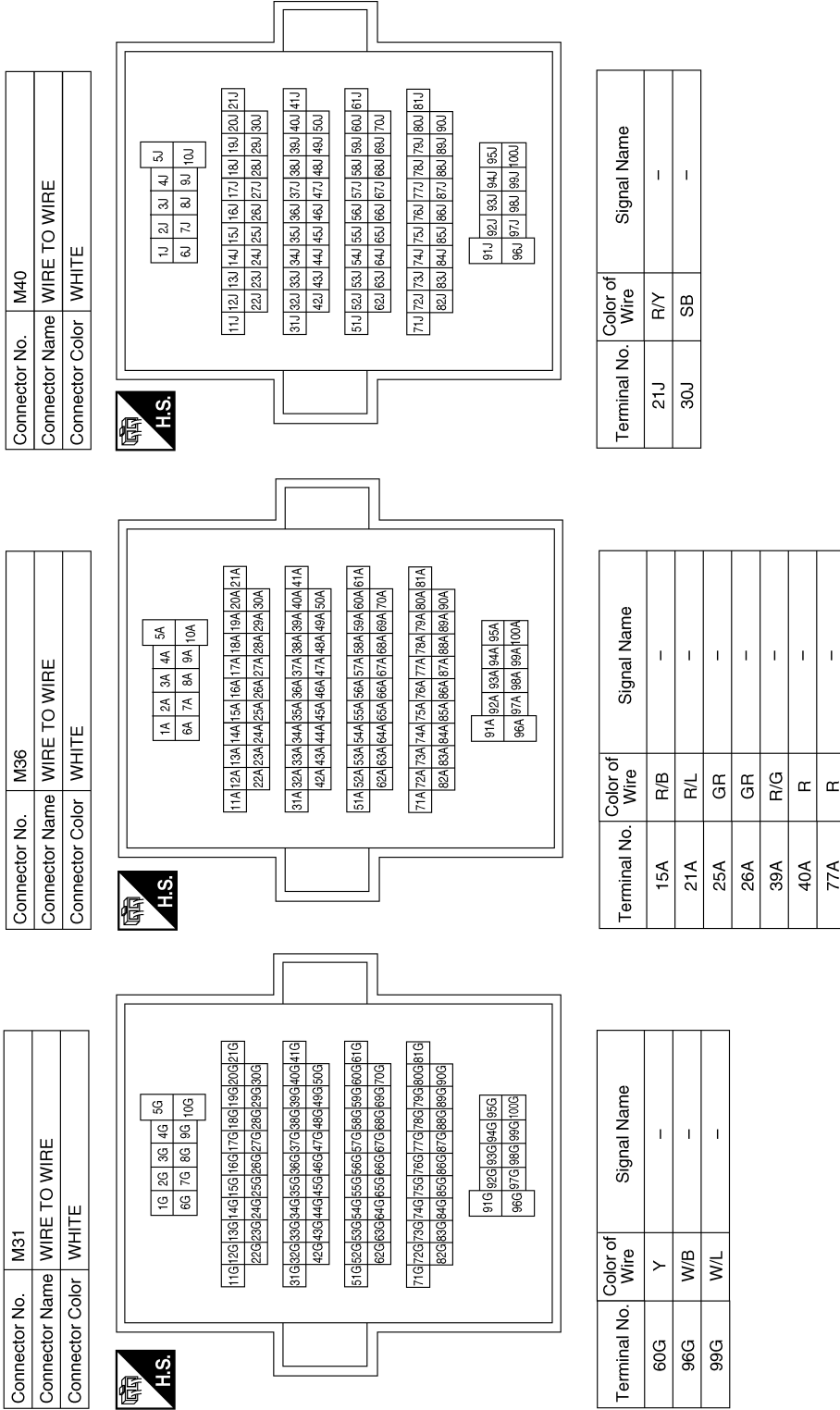
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INTERIOR ROOM LAMP CONTROL SYSTEM

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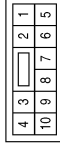


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INTERIOR ROOM LAMP CONTROL SYSTEM

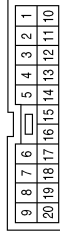
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Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Color	WHITE



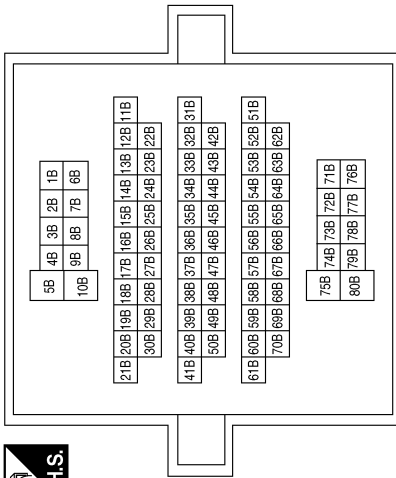
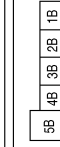
Terminal No.	3	Color of Wire	B	Signal Name	-
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Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	BROWN



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

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



Terminal No.	56B	Color of Wire	GR	Signal Name	-
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Connector No.	M150
Connector Name	IGNITION KEYHOLE ILLUMINATION
Connector Color	WHITE



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

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



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

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



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

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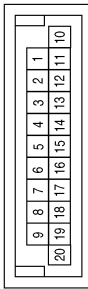
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INTERIOR ROOM LAMP CONTROL SYSTEM

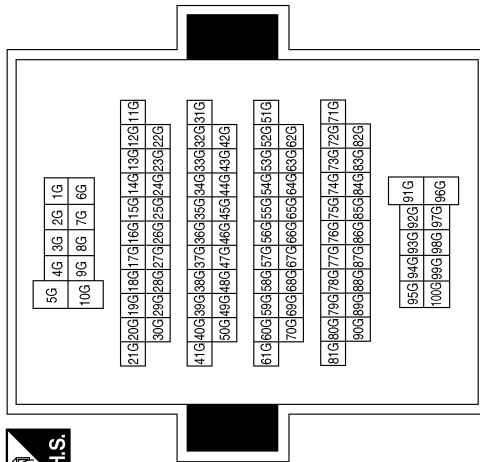
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Terminal No.	Color of Wire	Signal Name
60G	Y	-
96G	W/B	-
99G	L/W	-

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

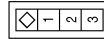


Terminal No.	Color of Wire	Signal Name
6	Y/R	-
7	Y/R	-
18	W/V	-
19	G	-
20	G	-

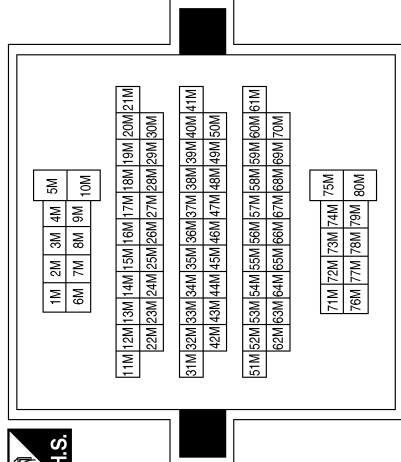


Terminal No.	Color of Wire	Signal Name
61M	R/Y	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	SB	-

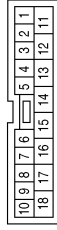


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INTERIOR ROOM LAMP CONTROL SYSTEM

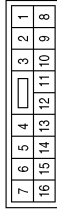
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Connector No.	B48
Connector Name	WIRE TO WIRE
Connector Color	WHITE



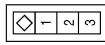
Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

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



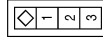
Terminal No.	Color of Wire	Signal Name
10	R/W	-

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



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

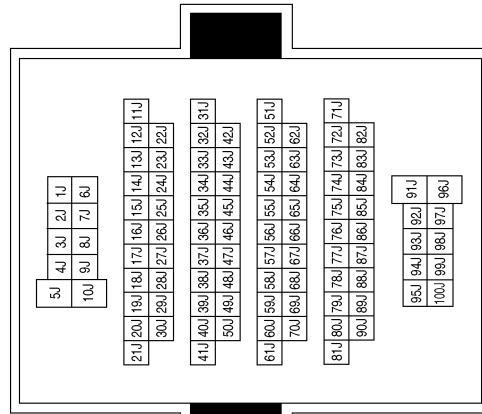
Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
21J	R/Y	-
30J	SB	-

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



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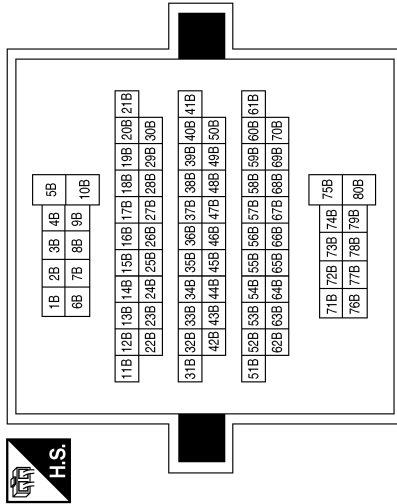
INL

INTERIOR ROOM LAMP CONTROL SYSTEM

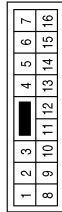
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Terminal No.	Color of Wire	Signal Name
56B	GR	-

Connector No.	B112
Connector Name	WIRE TO WIRE
Connector Color	WHITE

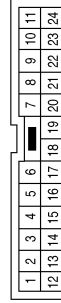


Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Color	WHITE

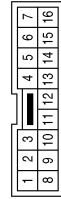


Terminal No.	Color of Wire	Signal Name
10	R/W	-

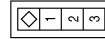
Connector No.	B146
Connector Name	WIRE TO WIRE
Connector Color	BROWN



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



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



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

Terminal No.	Color of Wire	Signal Name
13	GR	-

Terminal No.	Color of Wire	Signal Name
2	GR	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

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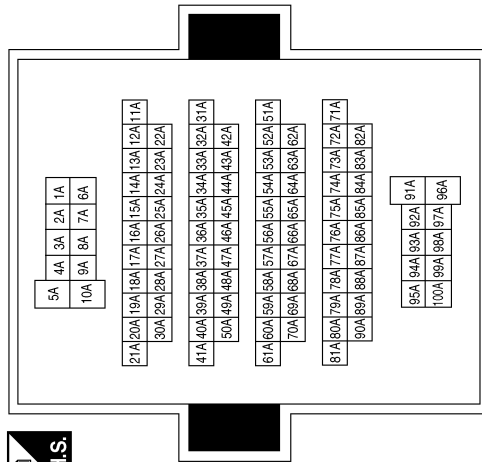
Connector No.	B153
Connector Name	CARGO LAMP
Connector Color	WHITE



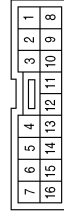
Terminal No.	Color of Wire	Signal Name
1	R	-
2	R/G	-

Terminal No.	Color of Wire	Signal Name
15A	R/W	-
21A	R/L	-
25A	GR	-
26A	GR	-
39A	R/G	-
40A	R	-
77A	R	-

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



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



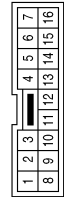
Terminal No.	Color of Wire	Signal Name
3	L	-
5	R/G	-
7	R	-
14	B	-

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



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

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



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

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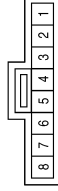
A B C D E F G H I J K M N O P



INTERIOR ROOM LAMP CONTROL SYSTEM

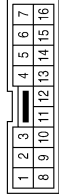
< WIRING DIAGRAM >

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



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

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



Terminal No.	Color of Wire	Signal Name
3	L	-
5	R/G	-
7	R	-
14	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.	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.	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




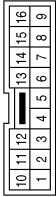
Terminal No.	Color of Wire	Signal Name
1	B	-
5	R/G	-
6	R	-

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INTERIOR ROOM LAMP CONTROL SYSTEM


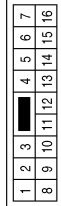
< WIRING DIAGRAM >

Connector No.	D4
Connector Name	DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE


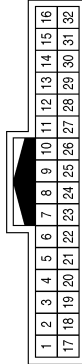
Terminal No.	Color of Wire	Signal Name
12	R/G	-
13	L	-

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


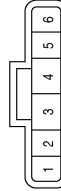
Terminal No.	Color of Wire	Signal Name
8	LG/W	-
14	B	-

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



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

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


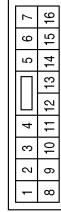
Terminal No.	Color of Wire	Signal Name
1	L	-
5	B	-
6	R	-

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

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	KEY CYLINDER LOCK
6	R	KEY CYLINDER UNLOCK
14	LG/W	COMMUNICATION

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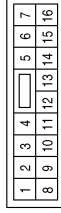
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INTERIOR ROOM LAMP CONTROL SYSTEM

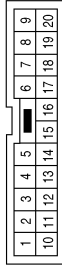
< WIRING DIAGRAM >

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



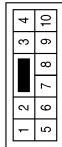
Terminal No.	Color of Wire	Signal Name
11	B	GND
16	LG/W	COMMUNICATION

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



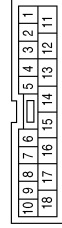
Terminal No.	Color of Wire	Signal Name
4	L	-
5	LG/W	-
7	R/G	-

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



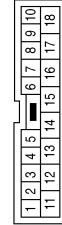
Terminal No.	Color of Wire	Signal Name
3	B	-

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



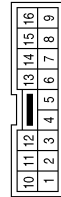
Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

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



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

Connector No.	D107
Connector Name	DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE



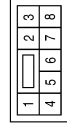
Terminal No.	Color of Wire	Signal Name
12	R/G	-
13	L	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

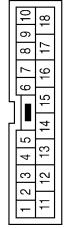
< WIRING DIAGRAM >

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



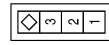
Terminal No.	Color of Wire	Signal Name
7	R/W	-
8	B	-

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



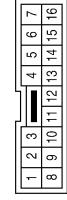
Terminal No.	Color of Wire	Signal Name
14	B	-
15	R/W	-

Connector No.	D407
Connector Name	BACK DOOR SWITCH
Connector Color	WHITE



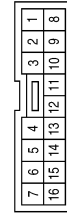
Terminal No.	Color of Wire	Signal Name
1	B	-
3	R/W	-

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



Terminal No.	Color of Wire	Signal Name
13	GR	-

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



Terminal No.	Color of Wire	Signal Name
13	GR	-

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



Terminal No.	Color of Wire	Signal Name
13	GR	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

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



Terminal No.	Color of Wire	Signal Name
1	GR	-

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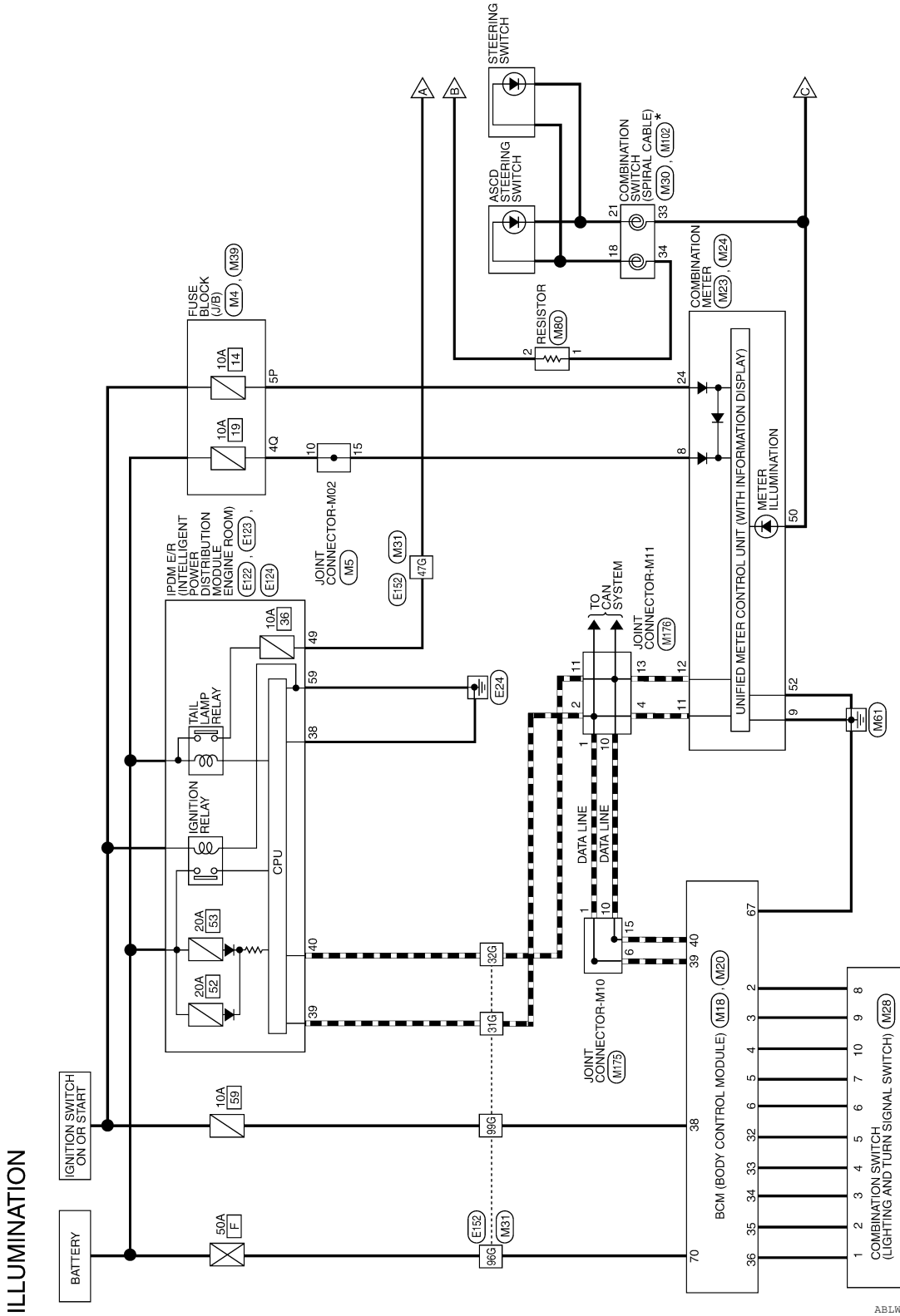
ILLUMINATION

< WIRING DIAGRAM >

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Wiring Diagram

INFOID:000000011288458



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

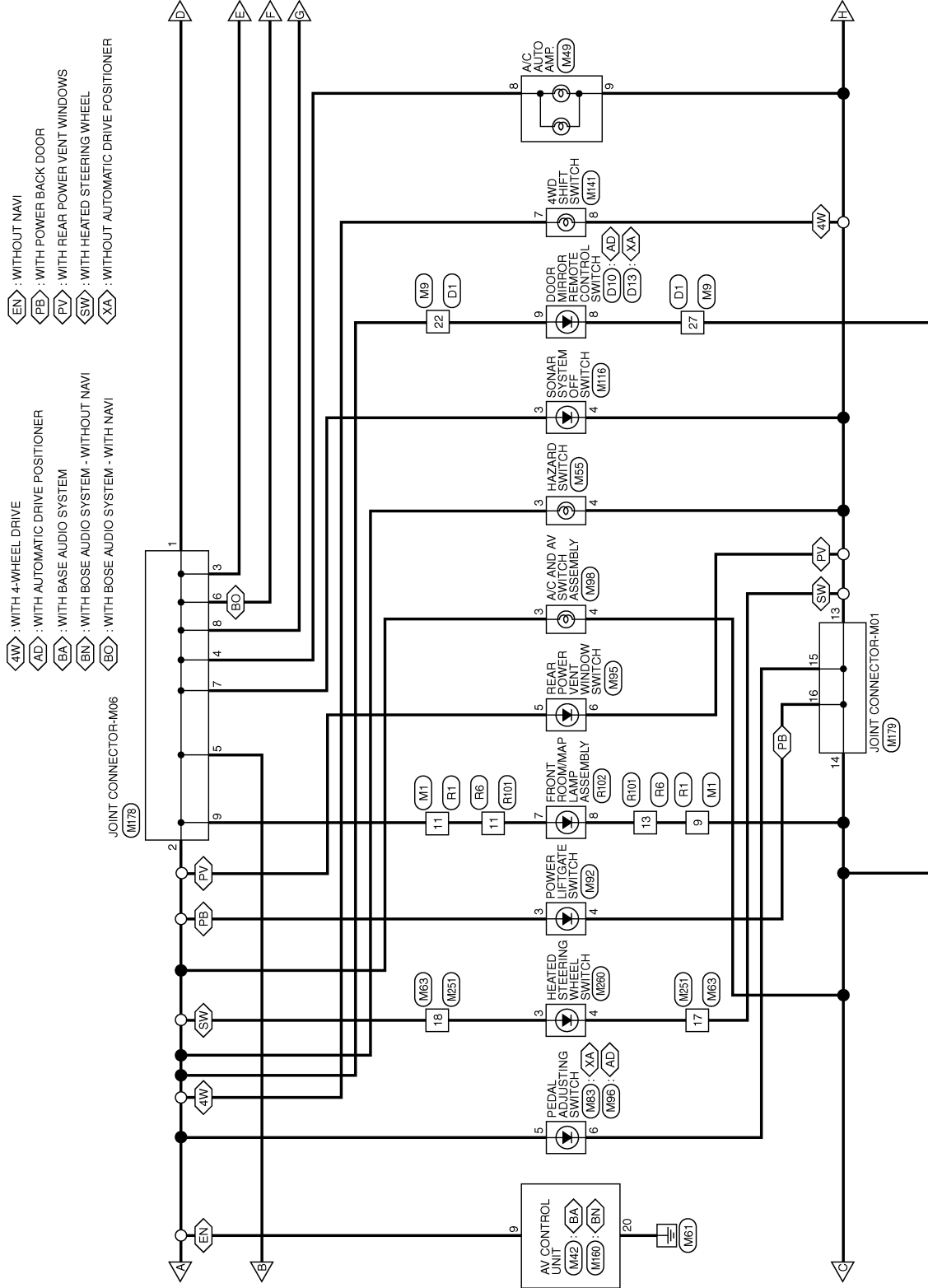
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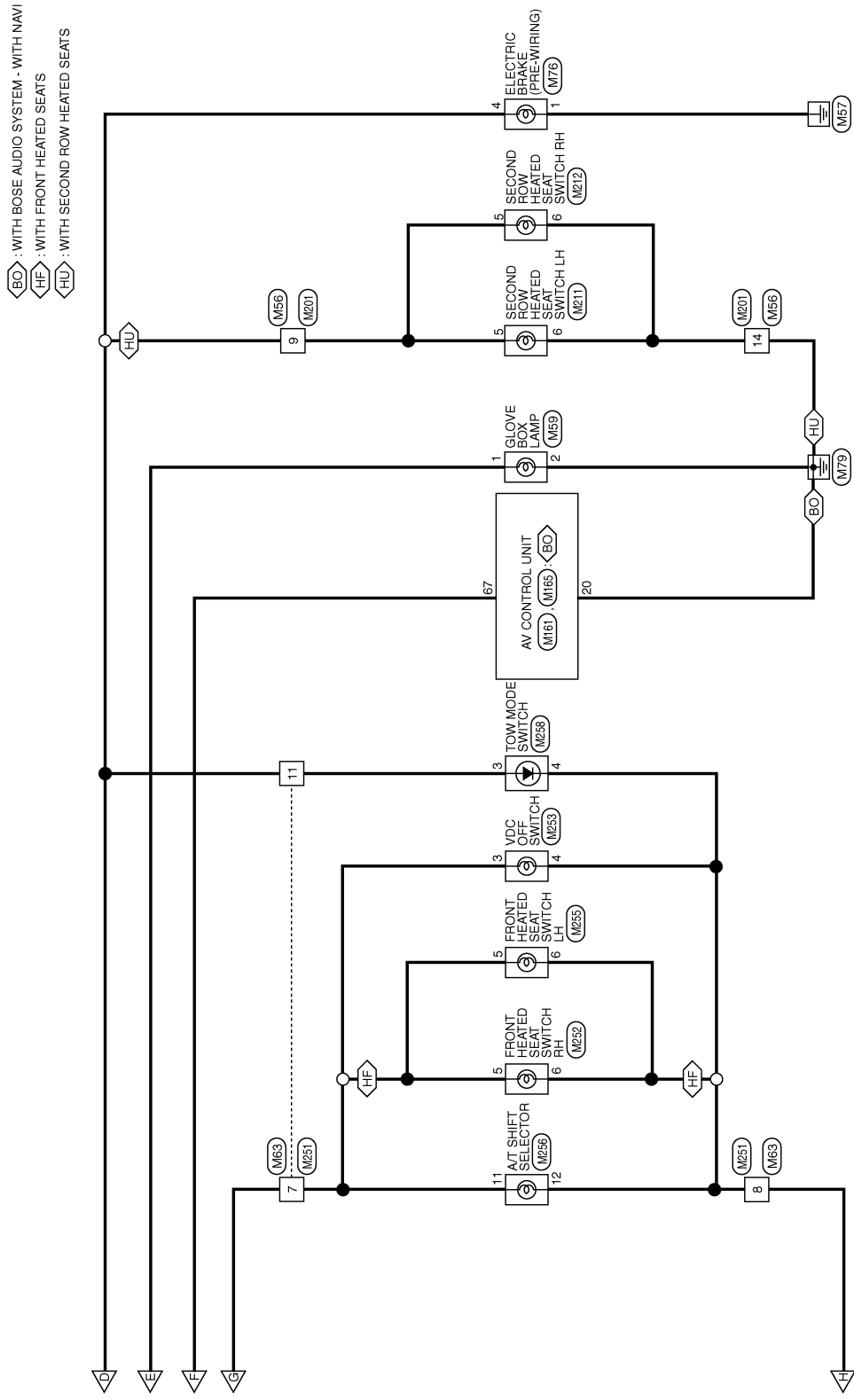


- <4W> : WITH 4-WHEEL DRIVE
- <AD> : WITH AUTOMATIC DRIVE POSITIONER
- <EA> : WITH BASE AUDIO SYSTEM
- <EN> : WITH BOSE AUDIO SYSTEM - WITHOUT NAVI
- <BO> : WITH BOSE AUDIO SYSTEM - WITH NAVI
- <EN> : WITHOUT NAVI
- <PB> : WITH POWER BACK DOOR
- <PV> : WITH REAR POWER VENT WINDOWS
- <SW> : WITH HEATED STEERING WHEEL
- <XA> : WITHOUT AUTOMATIC DRIVE POSITIONER

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< WIRING DIAGRAM >



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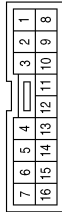
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< WIRING DIAGRAM >

ILLUMINATION CONNECTORS

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



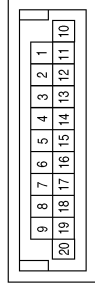
Terminal No.	Color of Wire	Signal Name
9	BR	-
11	R/L	-

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



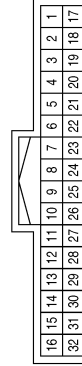
Terminal No.	Color of Wire	Signal Name
5P	O/L	-

Connector No.	M5
Connector Name	JOINT CONNECTOR-M02
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
10	Y/R	-
15	Y/R	-

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



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

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



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

ILLUMINATION

< WIRING DIAGRAM >


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)


Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE



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

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


Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
8	Y/R	BATTERY
9	B	GND
11	L	CAN-H
12	P	CAN-L
24	O/L	RUN/START


Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



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

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

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY



24	25	26	27
31	32	33	34

Terminal No.	Color of Wire	Signal Name
33	BR	-
34	Y	-

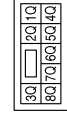
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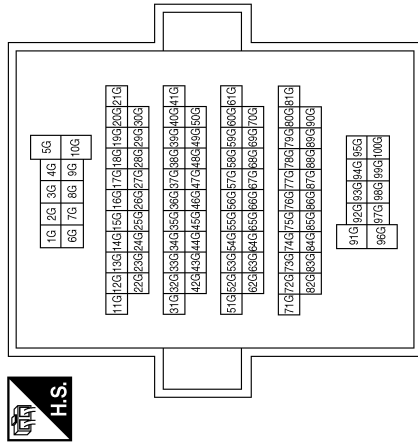
Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



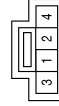
Terminal No.	Color of Wire	Signal Name
4Q	Y/R	-

Terminal No.	Color of Wire	Signal Name
31G	L	-
32G	P	-
47G	R/L	-
96G	W/B	-
99G	W/L	-

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

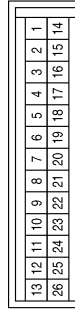


Connector No.	M55
Connector Name	HAZARD SWITCH
Connector Color	WHITE



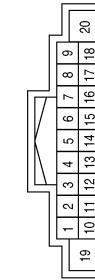
Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	BR	-

Connector No.	M49
Connector Name	A/C AUTO AMP.
Connector Color	BLACK



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

Connector No.	M42
Connector Name	AV CONTROL UNIT (WITH BASE AUDIO SYSTEM)
Connector Color	WHITE



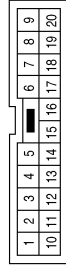
Terminal No.	Color of Wire	Signal Name
9	R/L	ILL
20	B	GND

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< WIRING DIAGRAM >

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



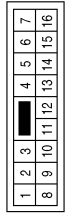
Terminal No.	Color of Wire	Signal Name
7	R/L	-
8	BR	-
11	R/L	-
17	BR	-
18	R/L	-

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



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

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.	M83
Connector Name	PEDAL ADJUSTING SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	BROWN



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

Connector No.	M80
Connector Name	RESISTOR
Connector Color	BLACK



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

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



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

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Connector No.	M96
Connector Name	PEDAL ADJUSTING SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	BROWN



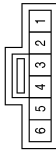
Terminal No.	Color of Wire	Signal Name
5	R/L	-
6	BR	-

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.	M92
Connector Name	POWER LIFTGATE SWITCH
Connector Color	GRAY



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

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



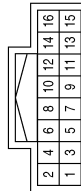
Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	BR	-

Connector No.	M102
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY



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

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



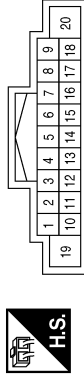
Terminal No.	Color of Wire	Signal Name
3	R/L	-
4	BR	-

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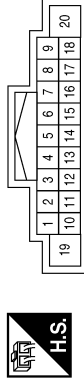
< WIRING DIAGRAM >

Connector No.	M161
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITH NAVI)
Connector Color	WHITE



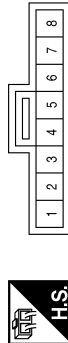
Terminal No.	Color of Wire	Signal Name
20	B	GND

Connector No.	M160
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITHOUT NAVI)
Connector Color	WHITE



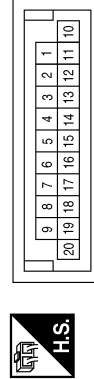
Terminal No.	Color of Wire	Signal Name
9	R/L	ILL
20	B	GND

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



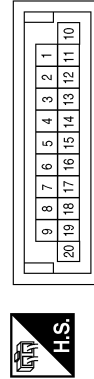
Terminal No.	Color of Wire	Signal Name
7	R/L	-
8	BR	-

Connector No.	M176
Connector Name	JOINT CONNECTOR-M11
Connector Color	BLUE



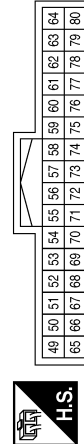
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-
4	L	-
10	P	-
11	P	-
13	P	-

Connector No.	M175
Connector Name	JOINT CONNECTOR-M10
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	-
6	L	-
10	P	-
15	P	-

Connector No.	M165
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM WITH NAVI)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
67	SB	MR OUTPUT

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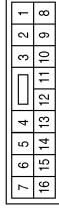
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ILLUMINATION

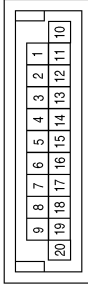
< WIRING DIAGRAM >

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



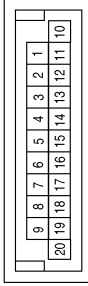
Terminal No.	Color of Wire	Signal Name
9	R/L	-
14	B	-

Connector No.	M179
Connector Name	JOINT CONNECTOR-M01
Connector Color	GREEN



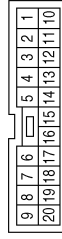
Terminal No.	Color of Wire	Signal Name
13	BR	-
14	BR	-
15	BR	-
16	BR	-

Connector No.	M178
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	R/L	-
2	R/L	-
3	R/L	-
4	R/L	-
5	R/L	-
6	SB	-
7	R/L	-
8	R/L	-
9	R/L	-

Connector No.	M251
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.	M212
Connector Name	SECOND ROW HEATED SEAT SWITCH RH
Connector Color	BROWN



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

Connector No.	M211
Connector Name	SECOND ROW HEATED SEAT SWITCH LH
Connector Color	WHITE



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

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ILLUMINATION

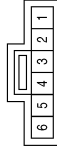
< WIRING DIAGRAM >

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



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

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



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

Connector No.	M252
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN



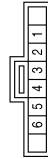
Terminal No.	Color of Wire	Signal Name
5	R/L	-
6	BR	-

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



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

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



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

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



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

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ILLUMINATION

< WIRING DIAGRAM >

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

59	58	57
62	61	60



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

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

51	50	49
56	55	54
53	52	



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

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.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

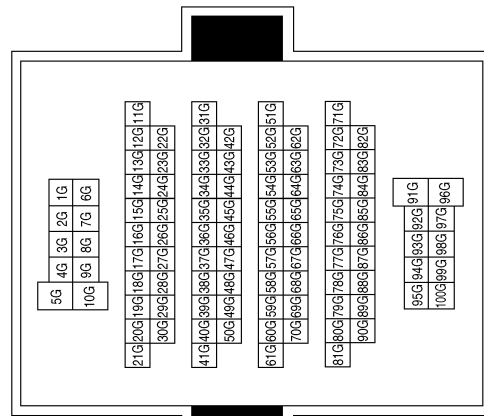
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					



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

Terminal No.	Color of Wire	Signal Name
31G	L	-
32G	P	-
47G	R/L	-
96G	W/B	-
99G	L/W	-

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

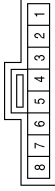


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ILLUMINATION

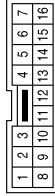
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Connector No.	R102
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	GRAY



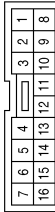
Terminal No.	Color of Wire	Signal Name
7	R/L	-
8	BR	-

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



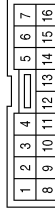
Terminal No.	Color of Wire	Signal Name
11	R/L	-
13	BR	-

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



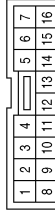
Terminal No.	Color of Wire	Signal Name
11	R/L	-
13	BR	-

Connector No.	D13
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE



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

Connector No.	D10
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	BROWN



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

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



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

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000011288459

CAUTION:

Perform the self-diagnosis with CONSULT 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 • Vanity mirror lamps • Ignition keyhole illumination • Puddle lamps (if equipped) • Foot lamps (if equipped) 	<ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM 	Battery saver output/power supply circuit Refer to INL-16 .
Some or all of the following interior room lamps do not turn ON/OFF <ul style="list-style-type: none"> • Puddle lamps (if equipped) • 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-74 (with Intelligent Key) or DLK-273 (without Intelligent Key). Interior room lamp control circuit Refer to INL-18 .
Foot lamps (if equipped) do not turn ON/OFF	<ul style="list-style-type: none"> • Harness between BCM and foot lamps • BCM 	Foot lamp circuit Refer to INL-20 .
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-22 .
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-24 .
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-18 .
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to BCS-18 .

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011288460

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 three minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000011288461

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 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.

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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.

Precaution for Work

INFOID:000000011288462

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

PREPARATION

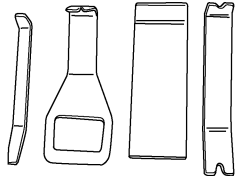
PREPARATION

Special Service Tool

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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set	Removing trim components



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INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

INTERIOR ROOM LAMP

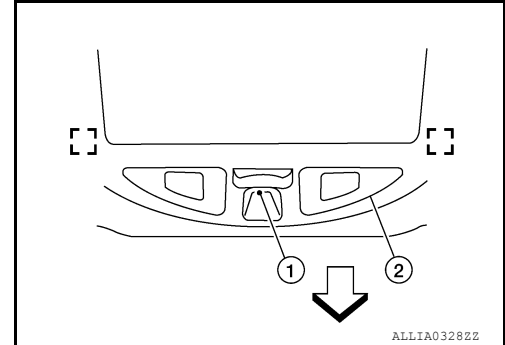
Removal and Installation

INFOID:000000011288464

FRONT ROOM/MAP LAMP

The front room/map lamp assembly (2) and console illumination lamp (1) is replaced with the overhead console. Refer to [INT-22, "Removal and Installation"](#).

↔: Front



Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

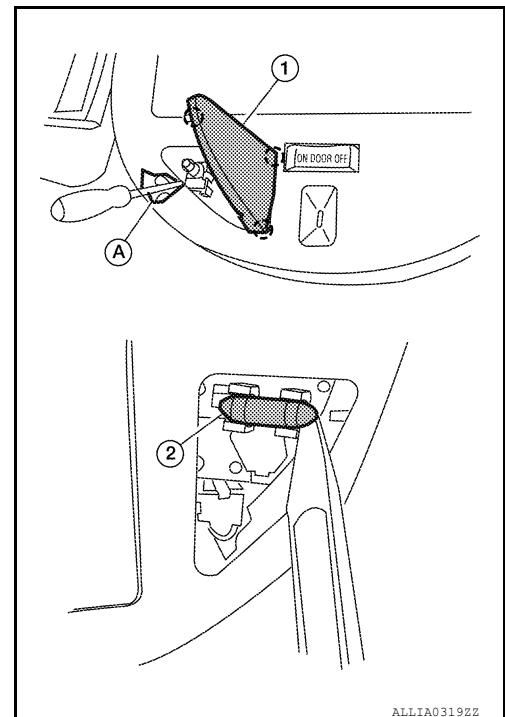
- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

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

CAUTION:

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

3. Install the bulb (2).
4. Install front room/map lamp lens (1).



VANITY MIRROR LAMP

Removal and Installation

The vanity mirror lamp is replaced as part of the sun visor assembly. Refer to [INT-22, "Removal and Installation"](#).

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Using a suitable tool (A), release the tabs and remove the vanity mirror lamp lens (1).

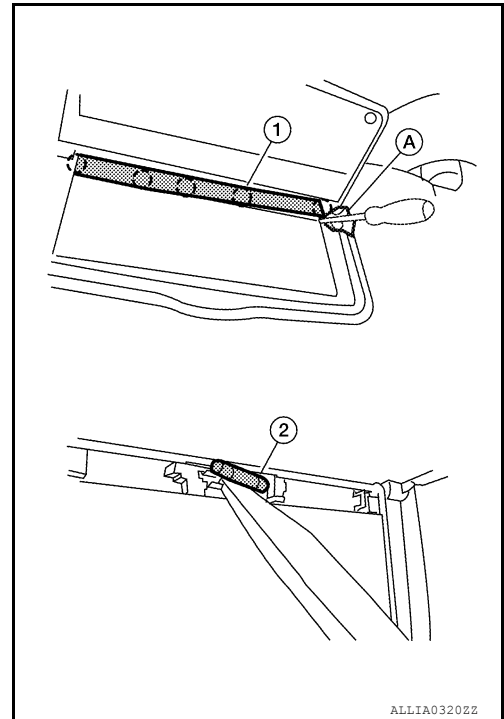
○: Pawl

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

CAUTION:

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

3. Install the bulb (2).
4. Install the vanity mirror lamp lens (1).



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 counterclockwise to release from steering member.

Installation

Installation is in the reverse order of removal.

Bulb Replacement

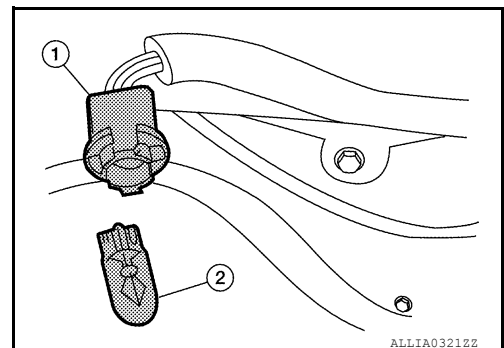
WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

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.
3. Install the bulb (2) to glove box lamp socket (1).
4. Install instrument lower panel RH and glove box. Refer to [IP-17, "Removal and Installation"](#).



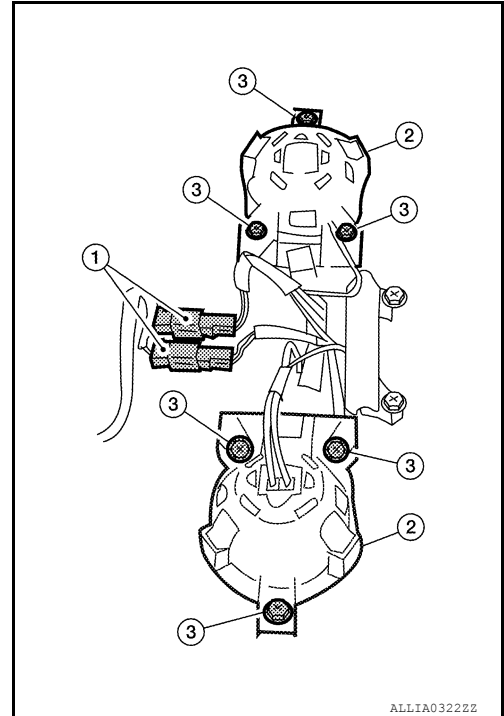
PERSONAL LAMP

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

Removal

1. Remove overhead console. Refer to [INT-22. "Removal and Installation"](#).
2. Remove personal lamp screws (3).
3. Disconnect personal lamp harness connectors (1), then remove personal lamps (2) from overhead console.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

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

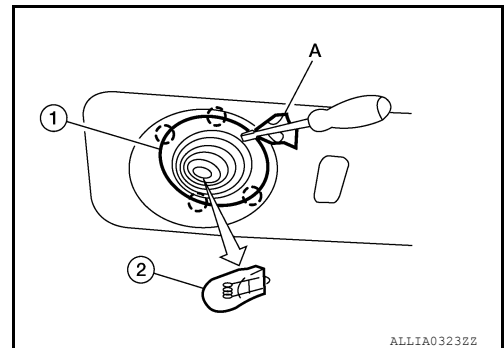
○: Pawl

2. Pull bulb (2) straight out to remove.

CAUTION:

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

3. Install the bulb (2) to personal lamp.
4. Install personal lamp lens (1).



FOOT LAMP

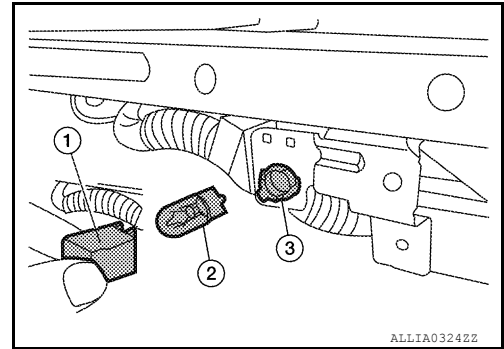
Removal

INTERIOR ROOM LAMP

< REMOVAL AND INSTALLATION >

Rotate foot lamp socket (3) counterclockwise to remove from bracket.

- (1): Bulb shield
- (2): Bulb



Installation

Installation is in the reverse order of removal.

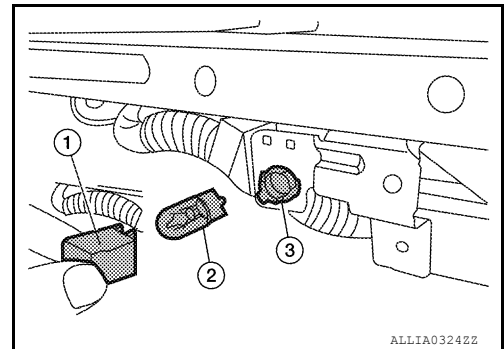
Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
 - Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.
1. Release the pawls and remove bulb shield (1) from bracket.
 2. Pull bulb (2) straight out from foot lamp socket (3) to remove.
 3. Install bulb (2) to foot lamp socket (3).
 4. Install bulb shield (1) to bracket.



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ILLUMINATION

< REMOVAL AND INSTALLATION >

ILLUMINATION

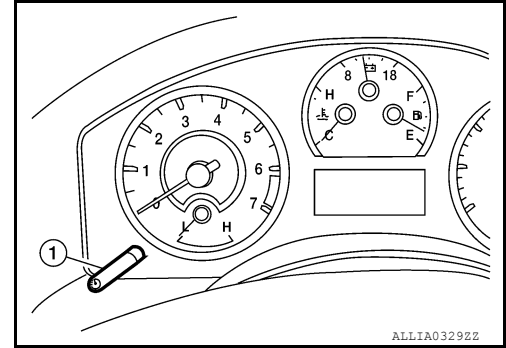
Removal and Installation

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ILLUMINATION CONTROL SWITCH

Removal and Installation

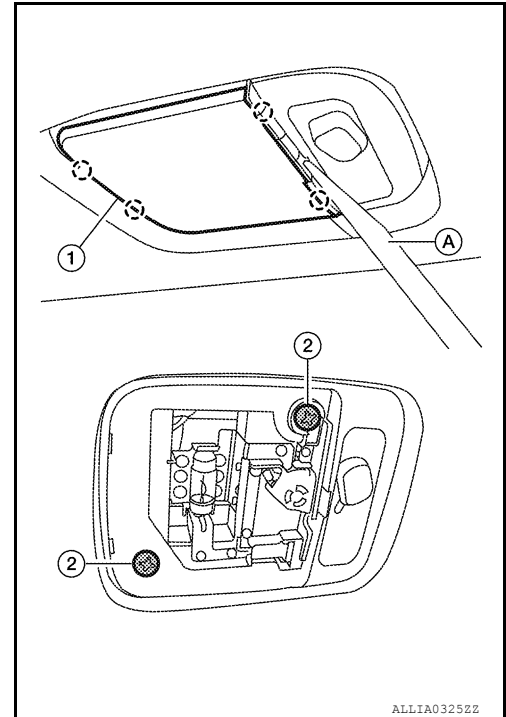
The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to [MWI-99, "Removal and Installation"](#).



CARGO LAMP

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 harness connector from the cargo lamp and remove.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

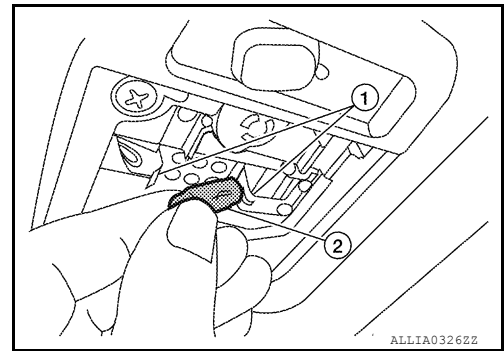
CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

ILLUMINATION

< REMOVAL AND INSTALLATION >

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.
3. Install the bulb (2) to cargo lamp bulb retainers (1).
4. Install cargo lamp lens.



CONSOLE ILLUMINATION LAMP

Bulb Replacement

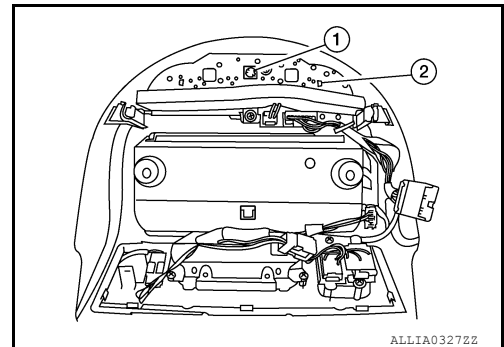
WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

- Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
- Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Remove overhead console. Refer to [INT-22. "Removal and Installation"](#).
2. Rotate console illumination lamp bulb (1) counterclockwise, then pull straight out away from front room/map lamp assembly (2) to remove.
3. Install console illumination lamp bulb (1) to front room/map lamp assembly (2).
4. Install overhead console. Refer to [INT-22. "Removal and Installation"](#).



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BULB SPECIFICATIONS

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Bulb Specifications

INFOID:0000000011288466

Item	Wattage (W)*
Front room/map lamp	8
Vanity mirror lamp	1.8
Glove box lamp	3.4
Personal lamp	6
Foot lamp (if equipped)	3.4
Cargo lamp	8
Console lamp	-

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