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SECTION INL

INTERIOR LIGHTING SYSTEM

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011596620

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. 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 for Work

INFOID:000000011217980

- 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

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PREPARATION

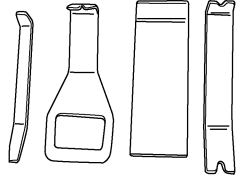
PREPARATION

Special Service Tool

INFOID:000000011217981

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



AWJIA04832Z

COMPONENT PARTS

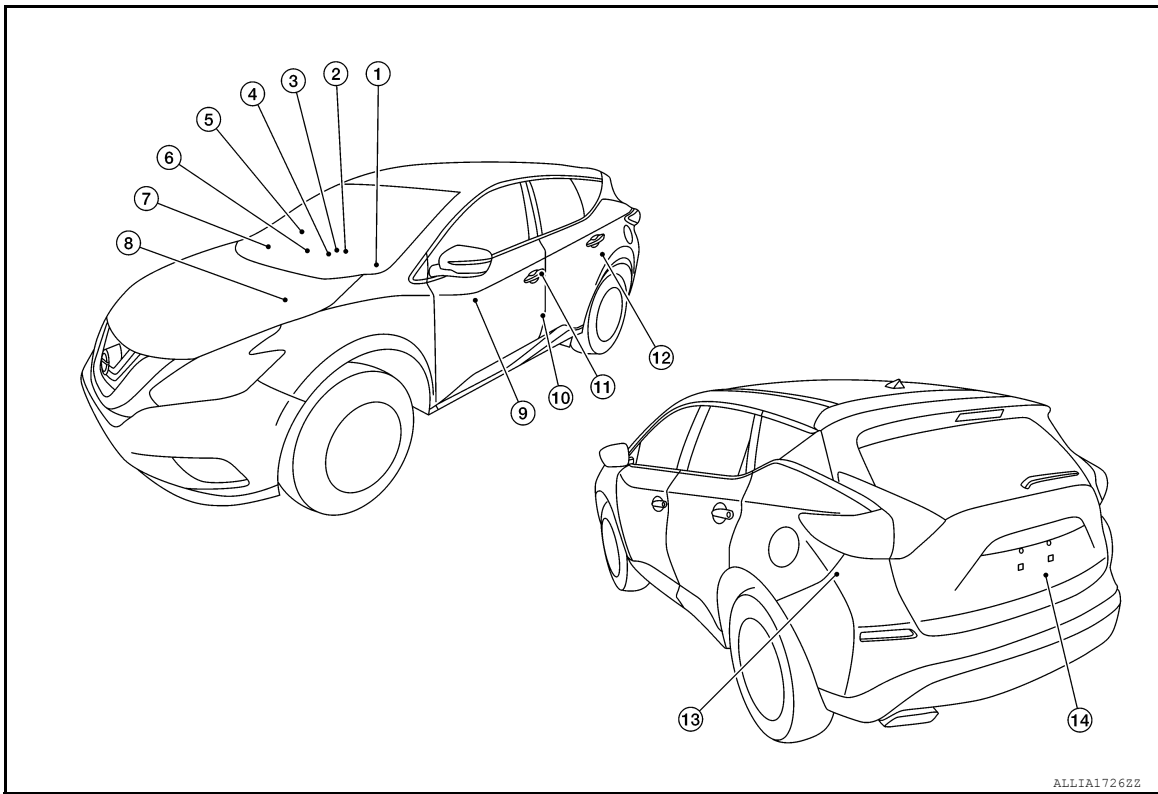
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000011504036



ALLIA17262Z

No.	Component	Function
1.	Meter control switch	Refer to MWI-8, "METER SYSTEM : Meter Control Switch" for detailed installation location
2.	BCM	<ul style="list-style-type: none"> • Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. • Operates the interior room lamp battery saver depending on the vehicle condition to turn interior room lamps OFF. • Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then transmits request signal to IPDM E/R and combination meter (via CAN communication). Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
3.	Combination meter	Controls the meter illumination according to the request signal from BCM (via CAN communication). Refer to MWI-7, "METER SYSTEM : Combination Meter" for detailed installation location.
4.	Combination switch (lighting & turn signal switch)	Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
5.	Power window and door lock/unlock switch RH	Refer to DLK-19, "Door Lock and Unlock Switch (Passenger Side)" for detailed installation location.
6.	Push-button ignition switch (push-button ignition switch illumination)	Provides ignition switch status to the BCM. Refer to PCS-42, "Push-button Ignition Switch" for detailed installation location.
7.	Remote keyless entry receiver	Refer to DLK-19, "Remote Keyless Entry Receiver" for detailed installation location.

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Component	Function
8.	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication). Refer to PCS-5, "Component Parts Location" for detailed installation location.
9.	Main power window and door lock/unlock switch	Refer to DLK-19, "Door Lock and Unlock Switch (Driver Side)" for detailed installation location.
10.	Front door switch LH	Refer to DLK-22, "Front Door Switch" for detailed installation location.
11.	Front door lock assembly LH (key cylinder switch)	Refer to DLK-22, "Front Door Lock Assembly (LH)" for detailed installation location.
12.	Rear door switch LH	Refer to DLK-22, "Rear Door Switch" for detailed installation location.
13.	Automatic back door control module	Refer to DLK-18, "Automatic Back Door Control Module" for detailed installation location.
14.	Back door lock assembly (door ajar switch)	Refer to DLK-18, "Back Door Lock Assembly" for detailed installation location.

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< SYSTEM DESCRIPTION >

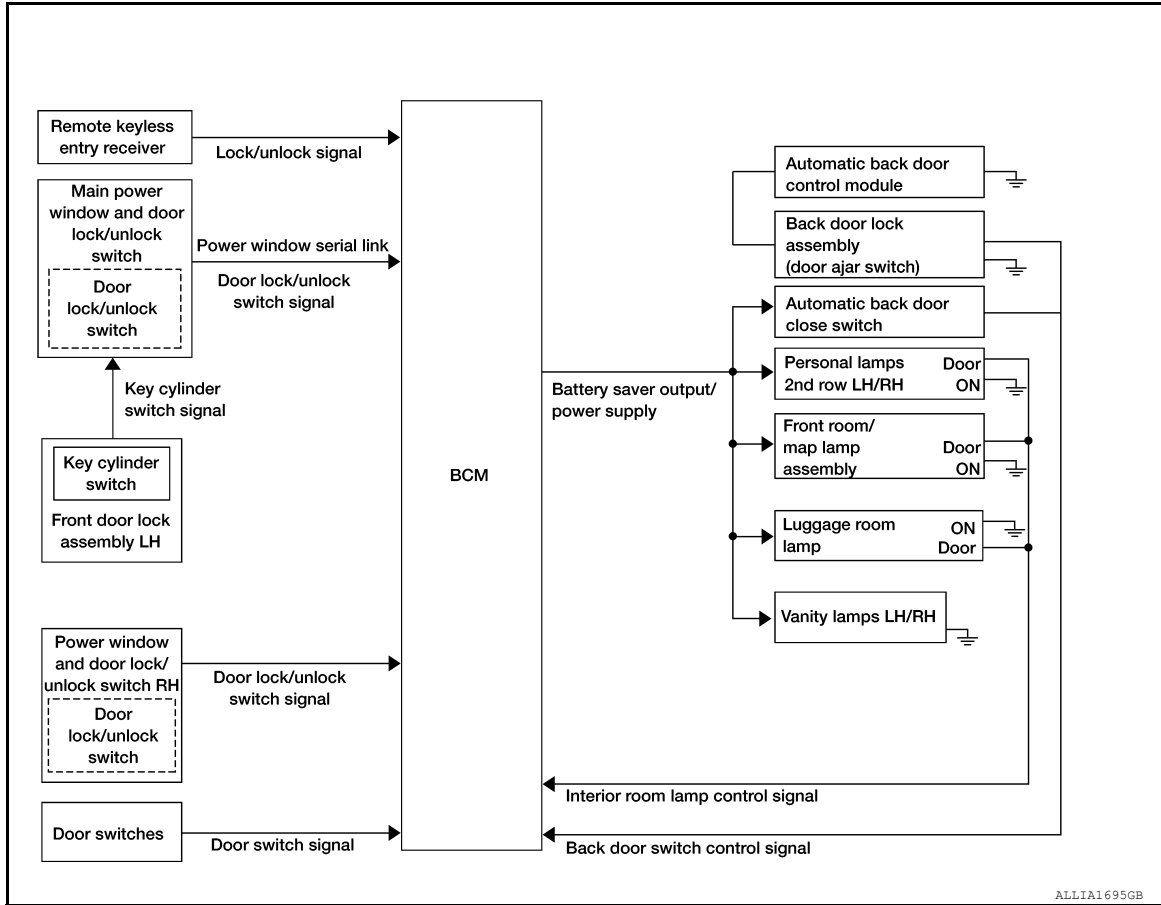
SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:000000011217985

SYSTEM DIAGRAM



OPERATION DESCRIPTION

- Front room/map lamp assembly, personal lamps 2nd row and luggage room lamp are controlled by the interior room lamp timer control function of the BCM when the lamp switch is in the DOOR position.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps are illuminated by welcome light function of the Intelligent Key system. Refer to [DLK-25, "INTELLIGENT KEY SYSTEM : System Description"](#).

ROOM LAMP TIMER OPERATION

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

- When the front door LH is unlocked with Intelligent Key system, main power window and door lock/unlock switch or front door lock assembly LH (key cylinder switch).
- When a door opens → closes.

Timer control is cancelled under the following conditions:

- When the front door LH is locked with Intelligent Key system, 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 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, 15 minutes after the ignition switch is turned OFF.

The BCM controls power and ground to all interior lamps.

SYSTEM

< SYSTEM DESCRIPTION >

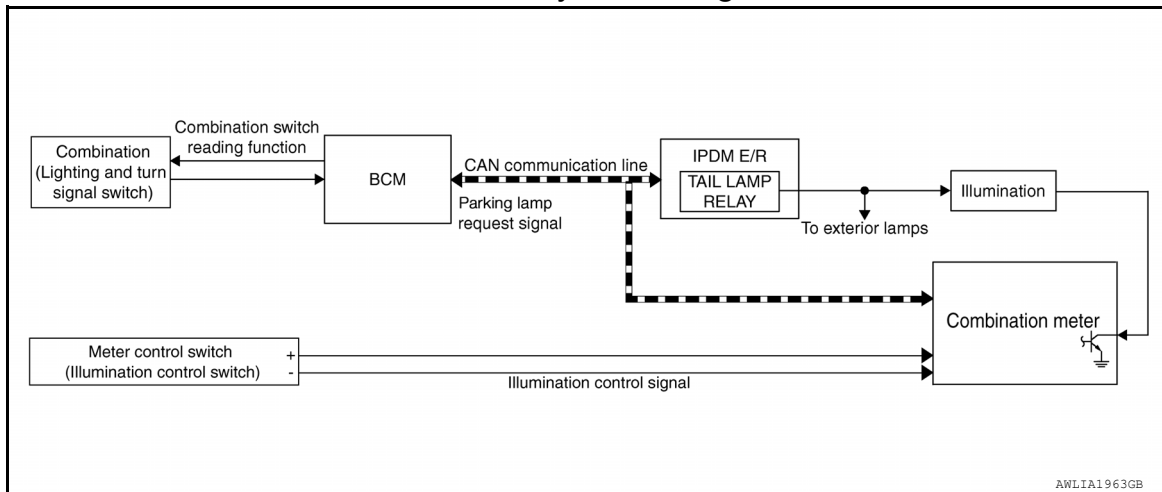
After the battery saver system turns the lamps OFF, the lamps will illuminate again when the following conditions are met:

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

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

INFOID:000000011217986



ILLUMINATION CONTROL SYSTEM : System Description

INFOID:000000011217987

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. The illumination brightness can be controlled by the meter control switch (illumination control switch).

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 15 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1st or 2nd position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011498042

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		x	x	x	x		
Rear window defogger	REAR DEFOGGER			x	x	x		
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Exterior lamp	HEADLAMP			x	x	x		
Wiper and washer	WIPER			x	x	x		
Turn signal and hazard warning lamps	FLASHER			x	x	x		
Air conditioner	AIR CONDITIONER			x				
Intelligent Key system	INTELLIGENT KEY		x	x	x	x		
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x	x	x			
Interior room lamp battery saver	BATTERY SAVER			x	x			
Back door open	TRUNK			x				
Vehicle security system	THEFT ALM			x	x	x		
RAP system	RETAINED PWR			x				
Signal buffer system	SIGNAL BUFFER			x	x			
TPMS	AIR PRESSURE MONITOR		x	x	x			

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected
Vehicle Condition	SLEEP>LOCK	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*).
	SLEEP>OFF	While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC	While turning power supply position from "LOCK"*to "ACC"
	ACC>ON	While turning power supply position from "ACC" to "IGN"
	RUN>ACC	While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)
	CRANK>RUN	While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT	While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF	While turning power supply position from "ACC" to "OFF"
	OFF>LOCK	While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC	While turning power supply position from "OFF" to "ACC"
	ON>CRANK	While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP	While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode
	LOCK	Power supply position is "LOCK" (Ignition switch OFF)*
	OFF	Power supply position is "OFF" (Ignition switch OFF)
	ACC	Power supply position is "ACC" (Ignition switch ACC)
	ON	Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)
CRANKING	Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000011498043

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -RR [On/Off]	Indicates condition of rear door request switch RH.
REQ SW -RL [On/Off]	Indicates condition of rear door request switch LH.
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
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.
DOOR SW-BK [On/Off]	Indicates condition of back door 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.
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.
TRNK/KAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
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].

WORK SUPPORT

NOTE:

The items listed below are the only applicable Work Support items for this vehicle. If other items are displayed on CONSULT, do not use or change the setting for these other items.

Support Item	Setting	Description
SCENARIO LIGHTING SETTING	On	NOTE: Do not use this function since interior room lamp control is changed.
	Off*	
FOG LAMP OVERRIDE	On*	Fog lamp override function ON.
	Off	Fog lamp override function OFF.

* : Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000011498044

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -RR [On/Off]	Indicates condition of rear door request switch LH.
REQ SW -RL [On/Off]	Indicates condition of rear door request switch RH.
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
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.
DOOR SW-BK [On/Off]	Indicates condition of back door 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.
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.
TRNK/HAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

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

BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000011217991

ECU	Reference
BCM	BCS-30. "Reference Value"
	BCS-50. "Fail Safe"
	BCS-51. "DTC Inspection Priority Chart"
	BCS-52. "DTC Index"

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INTERIOR ROOM LAMP

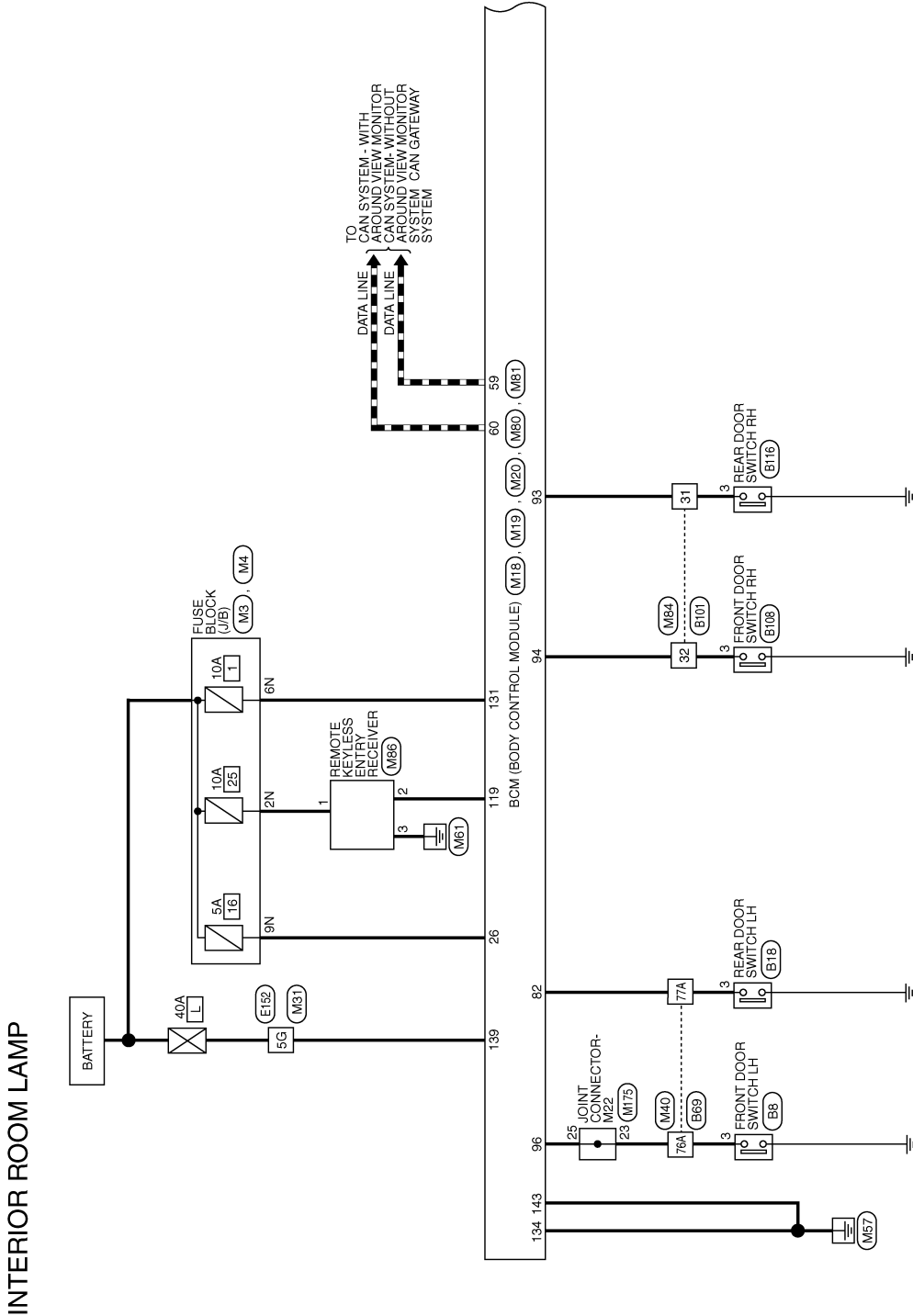
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WIRING DIAGRAM

INTERIOR ROOM LAMP

Wiring Diagram

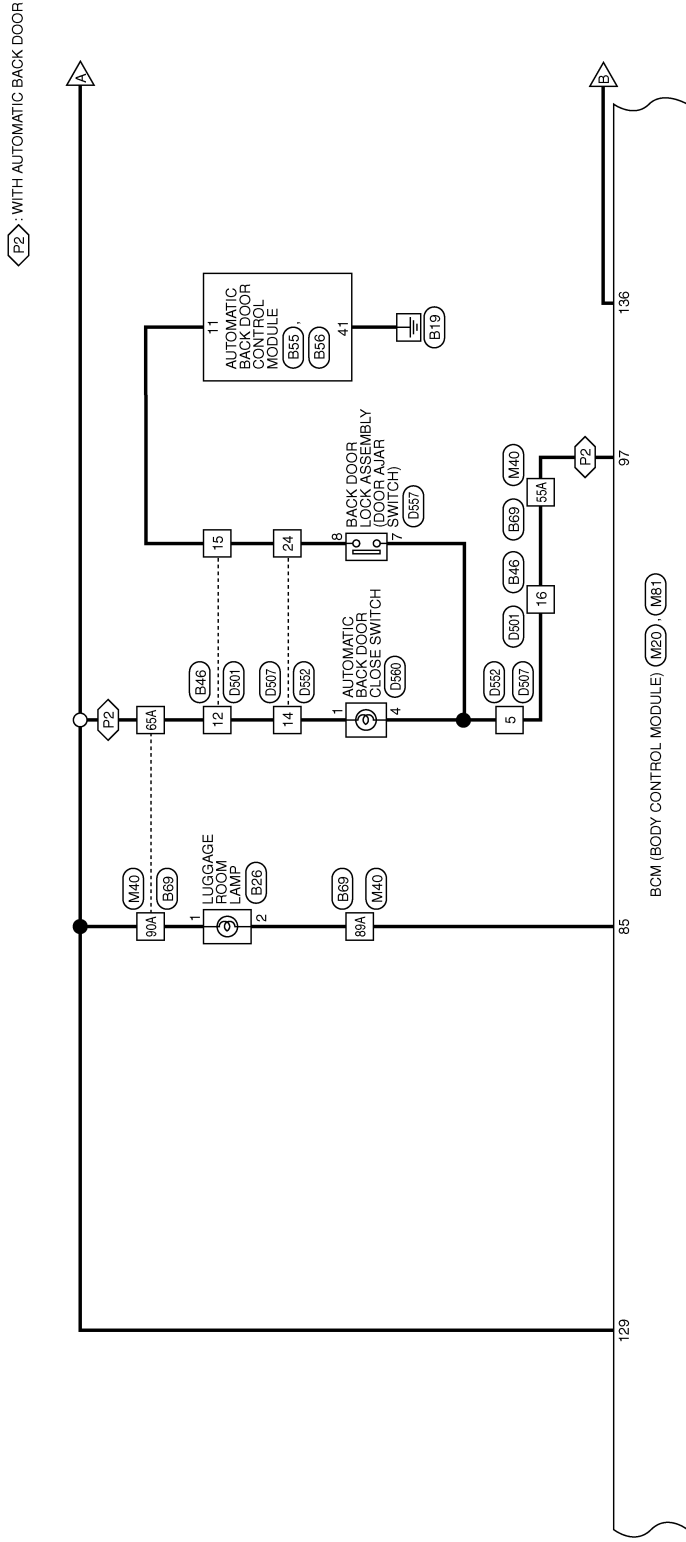
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INTERIOR ROOM LAMP

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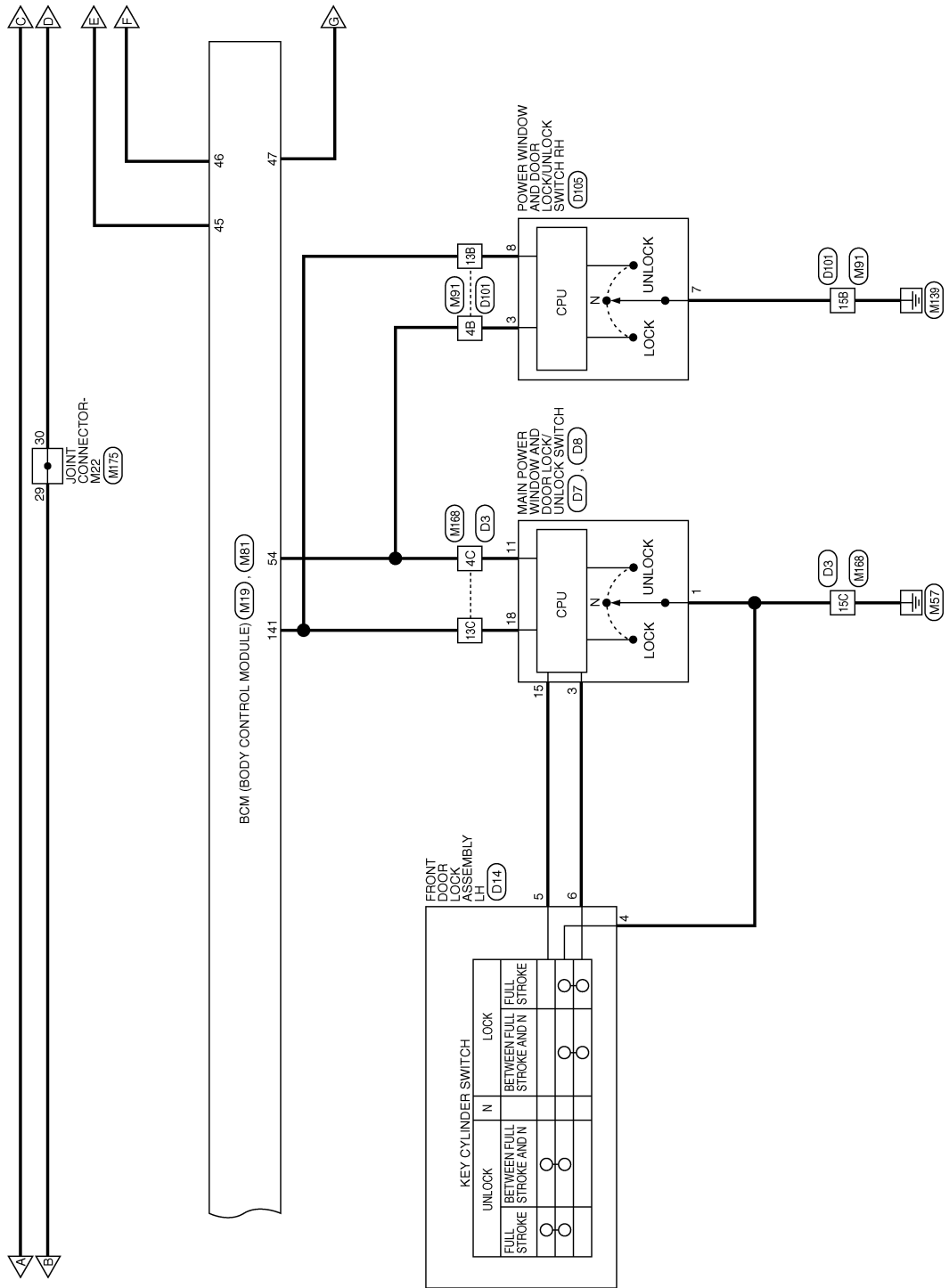


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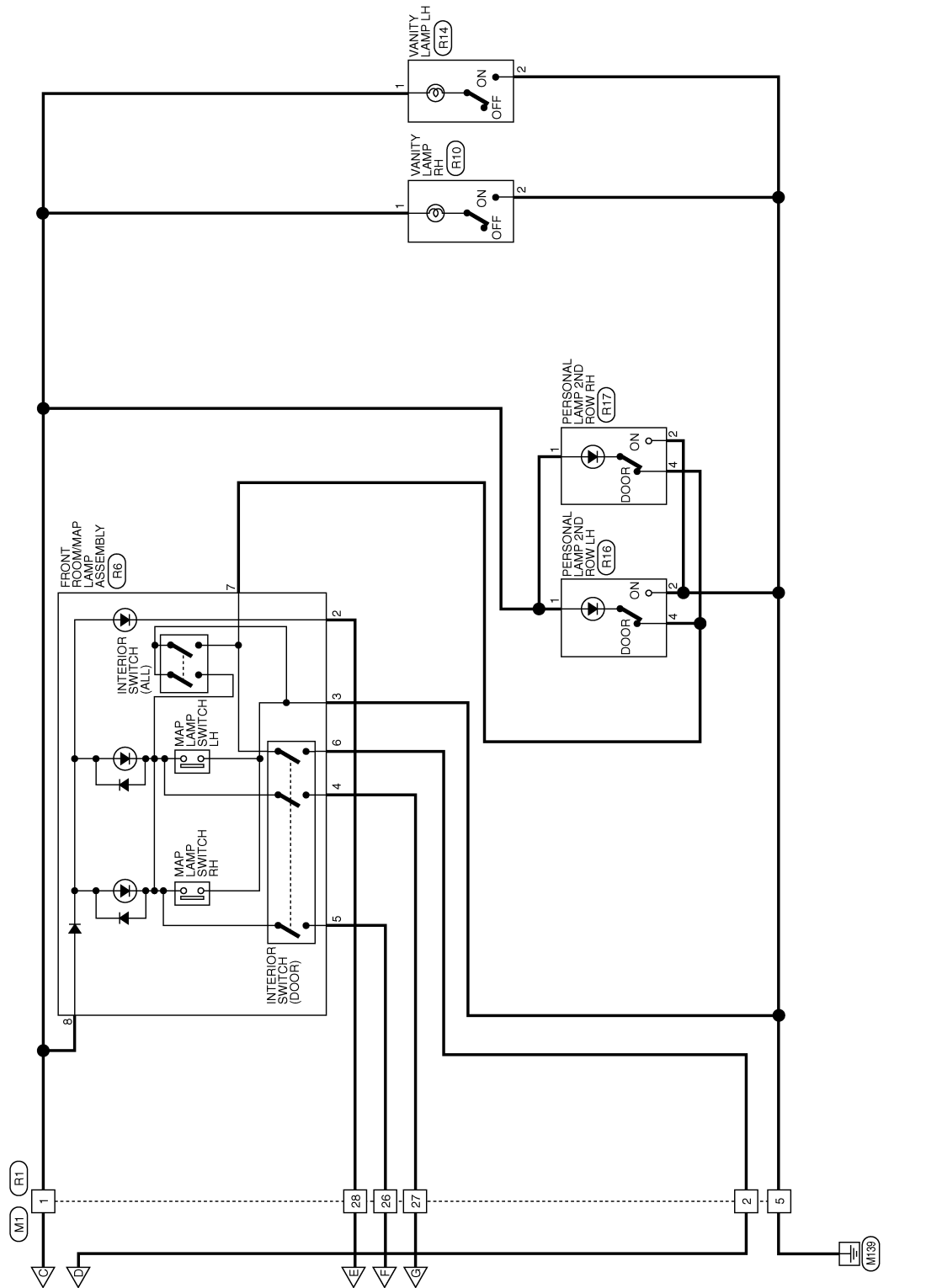
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INTERIOR ROOM LAMP

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INTERIOR ROOM LAMP CONNECTORS

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



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

Terminal No.	Color of Wire	Signal Name
1	SB	-
2	LG	-
5	B	-
26	P	-
27	BR	-
28	BR	-

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



3N	2N	1N
8N	7N	6N
5N	4N	

Terminal No.	Color of Wire	Signal Name
2N	BG	-
6N	W	-

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



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

Terminal No.	Color of Wire	Signal Name
9P	L	-

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



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
26	L	SHORTING INPUT

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



60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
45	BR	SHIFT SPOT LAMP
46	P	AS SEAT LAMP OUT
47	BG	DR SEAT LAMP OUT
54	W	PW LIN
59	P	CAN-L
60	L	CAN-H

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



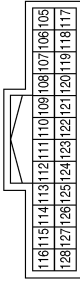
82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	
104	103	102	101	100	99	98	97	96	95	94	93											

Terminal No.	Color of Wire	Signal Name
82	W	RL DOOR SW
85	BG	TRUNK LAMP CONT
93	R	RR DOOR SW
94	G	AS DOOR SW
96	BG	DR DOOR SW
97	W	BACK DOOR SW

INTERIOR ROOM LAMP

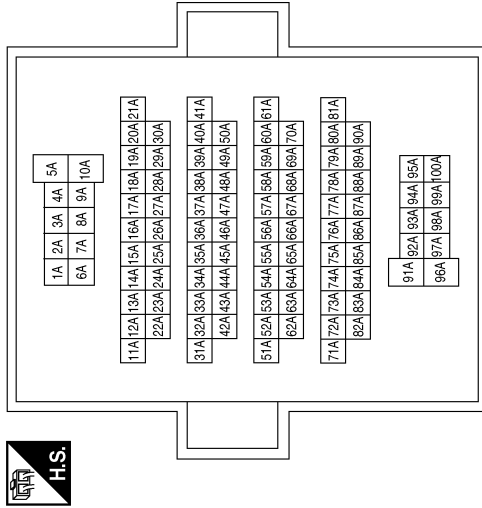
< WIRING DIAGRAM >

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



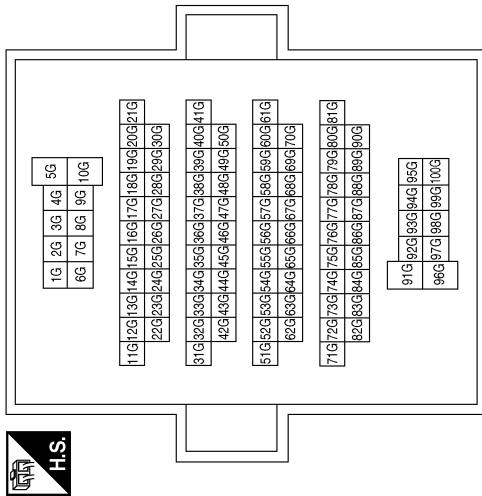
Terminal No.	Color of Wire	Signal Name
119	R	RF NIMOCO

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



Terminal No.	Color of Wire	Signal Name
55A	W	-
65A	SB	-
76A	BG	-
77A	W	-
89A	BG	-
90A	SB	-

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



Terminal No.	Color of Wire	Signal Name
5G	L	-

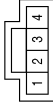
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INTERIOR ROOM LAMP

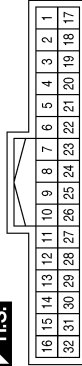
< WIRING DIAGRAM >

Connector No.	M86
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	BLACK



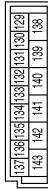
Terminal No.	Color of Wire	Signal Name
1	BG	-
2	R	-
3	B	-

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



Terminal No.	Color of Wire	Signal Name
31	R	-
32	G	-

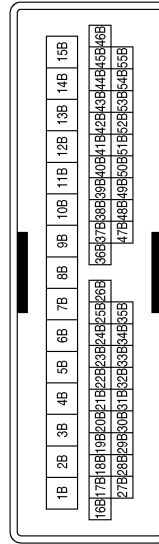
Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
131	W	BAT BCM FUSE
134	GR	GND 2
136	LG	ROOM LAMP CONT
139	GR	BAT-POWER F/L
141	Y	P/W POWER SUPPLY BAT
143	GR	GND 1

Terminal No.	Color of Wire	Signal Name
4B	W	-
13B	Y	-
15B	B	-

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Color	WHITE



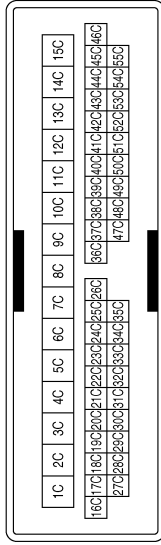
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INTERIOR ROOM LAMP

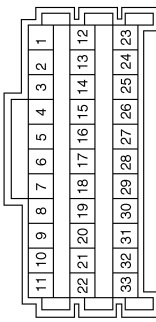
< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
4C	W	-
13C	Y	-
15C	B	-

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Color	WHITE

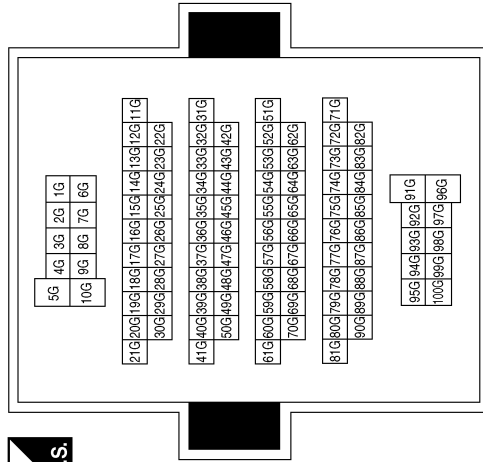


Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Color	WHITE

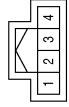


Terminal No.	Color of Wire	Signal Name
23	BG	-
25	BG	-
29	LG	-
30	LG	-

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



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



Terminal No.	Color of Wire	Signal Name
3	O	-

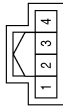
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

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



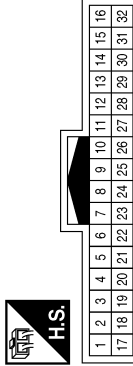
Terminal No.	Color of Wire	Signal Name
3	W	-

Connector No.	B26
Connector Name	LUGGAGE ROOM LAMP
Connector Color	WHITE



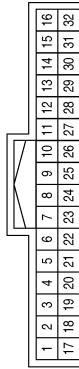
Terminal No.	Color of Wire	Signal Name
1	L/O	-
2	G/O	-

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE



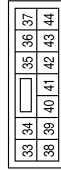
Terminal No.	Color of Wire	Signal Name
12	B/W	-
15	B/W	-
16	Y/O	-

Connector No.	B55
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	B/W	CL SW GND

Connector No.	B56
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
41	B	GND1

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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

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

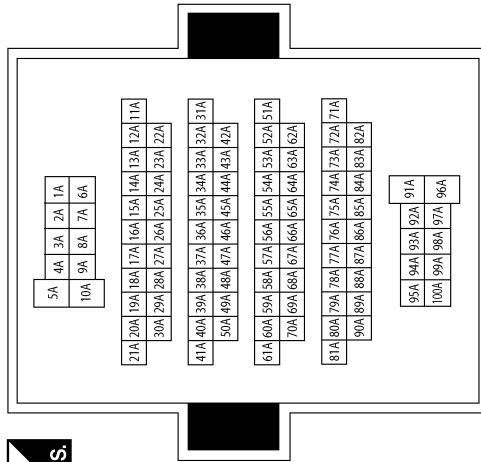


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
31	G/W	-
32	V	-

Terminal No.	Color of Wire	Signal Name
55A	Y/O	-
65A	B/W	-
76A	O	-
77A	W	-
89A	G/O	-
90A	L/O	-

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



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
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
1	V	-
2	L/R	-
5	B	-
26	Y	-
27	G	-
28	O	-

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



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	G/W	-

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



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	V	-

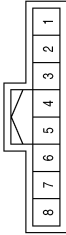
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INTERIOR ROOM LAMP

< WIRING DIAGRAM >

Connector No.	R6
Connector Name	FRONT ROOM/MAP LAMP ASSEMBLY
Connector Color	WHITE



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

Connector No.	R10
Connector Name	VANITY LAMP RH
Connector Color	WHITE



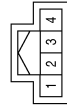
Terminal No.	Color of Wire	Signal Name
1	V	-
2	B	-

Connector No.	R14
Connector Name	VANITY LAMP LH
Connector Color	WHITE



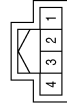
Terminal No.	Color of Wire	Signal Name
1	V	-
2	B	-

Connector No.	R16
Connector Name	PERSONAL LAMP 2ND ROW LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
2	B	-
4	W/L	-

Connector No.	R17
Connector Name	PERSONAL LAMP 2ND ROW RH
Connector Color	WHITE

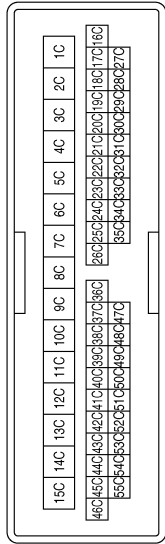


Terminal No.	Color of Wire	Signal Name
1	V	-
2	B	-
4	W/L	-

INTERIOR ROOM LAMP

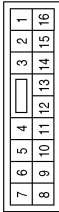
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Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Color	WHITE



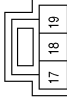
Terminal No.	Color of Wire	Signal Name
4C	Y/L	-
13C	Y	-
15C	B	-

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



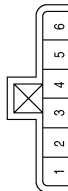
Terminal No.	Color of Wire	Signal Name
1	B	GND
3	BR	D LOCK ACTR DR
11	Y/L	COM
15	L/W	D LOCK ACTR DR

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



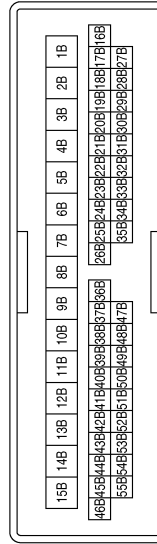
Terminal No.	Color of Wire	Signal Name
18	Y	BAT

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



Terminal No.	Color of Wire	Signal Name
4	B	-
5	L/W	-
6	BR	-

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



Terminal No.	Color of Wire	Signal Name
4B	Y/L	-
13B	Y	-
15B	B	-

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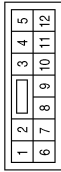
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INTERIOR ROOM LAMP

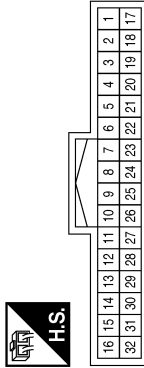
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Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



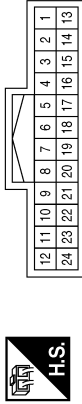
Terminal No.	Color of Wire	Signal Name
3	Y/L	COM
7	B	GND
8	Y	BAT

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



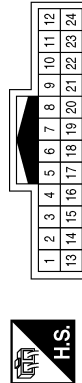
Terminal No.	Color of Wire	Signal Name
12	BR	-
16	P	-

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	P	-
14	BR	-

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	P	-
14	BR	-
24	B	-

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	P	-
8	B	-

Connector No.	D560
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	BR	-
4	P	-

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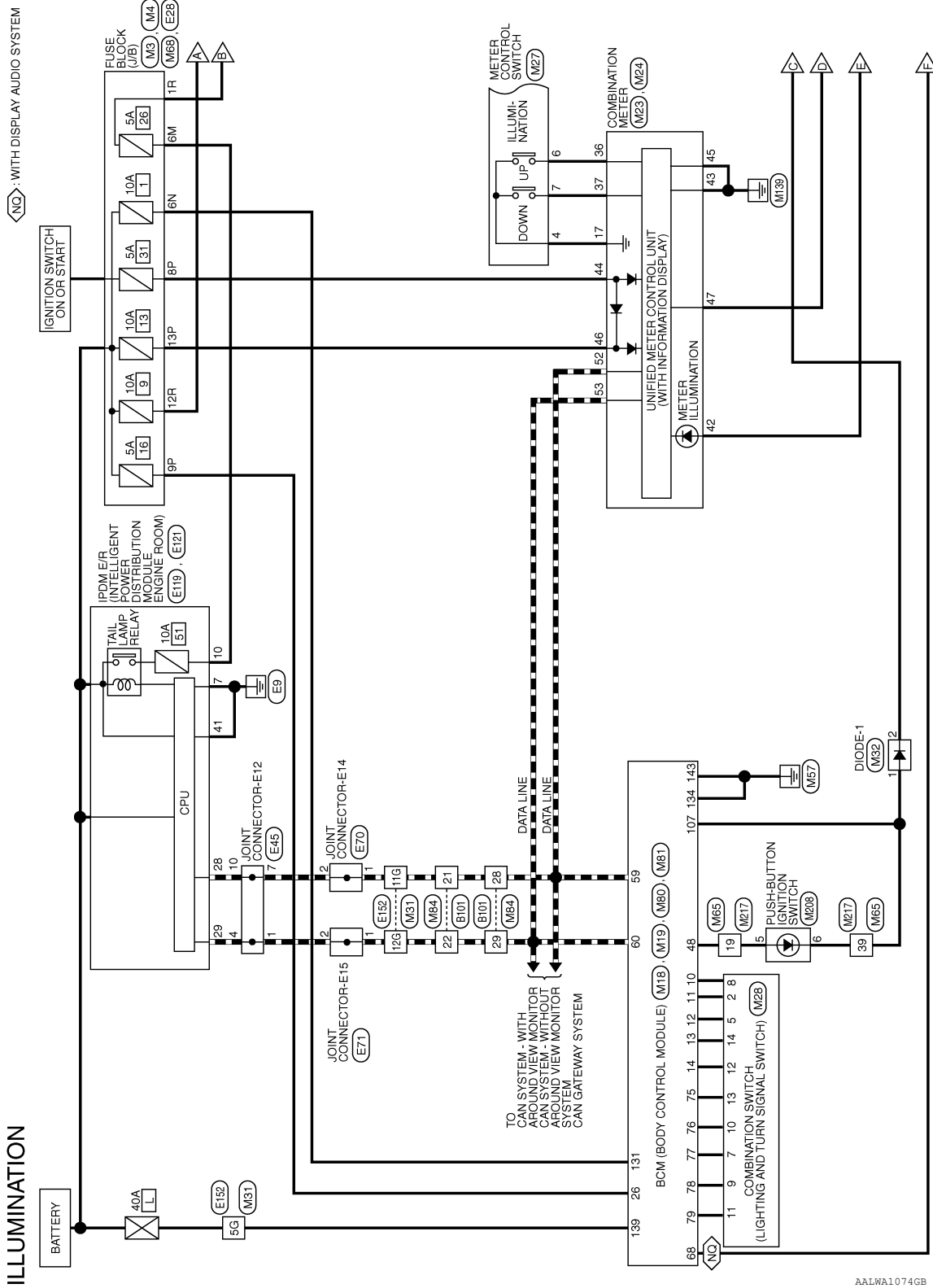
ILLUMINATION

< WIRING DIAGRAM >

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Wiring Diagram

INFOID:000000011217993



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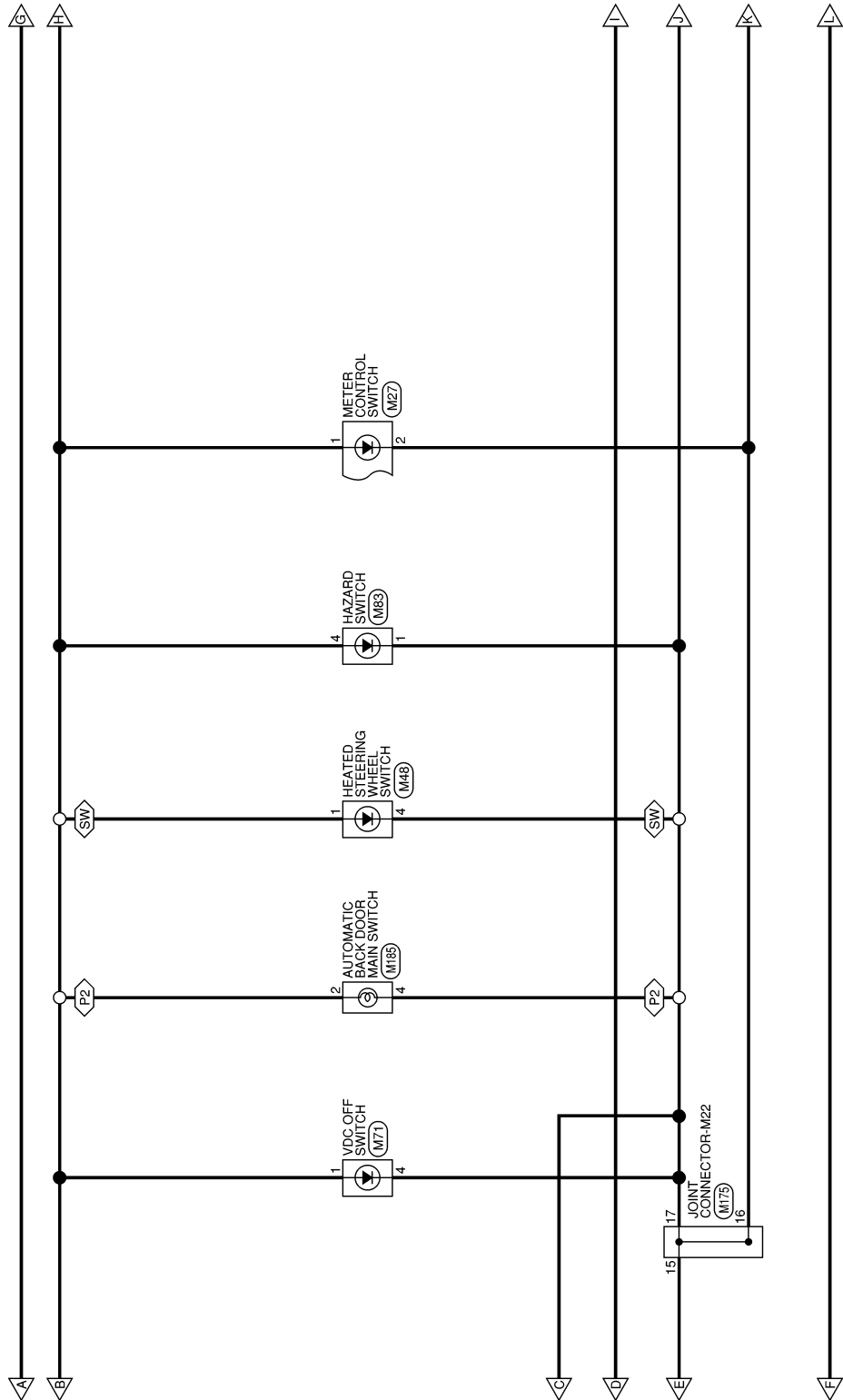
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< WIRING DIAGRAM >

P2 : WITH AUTOMATIC BACK DOOR
SW : WITH HEATED STEERING WHEEL

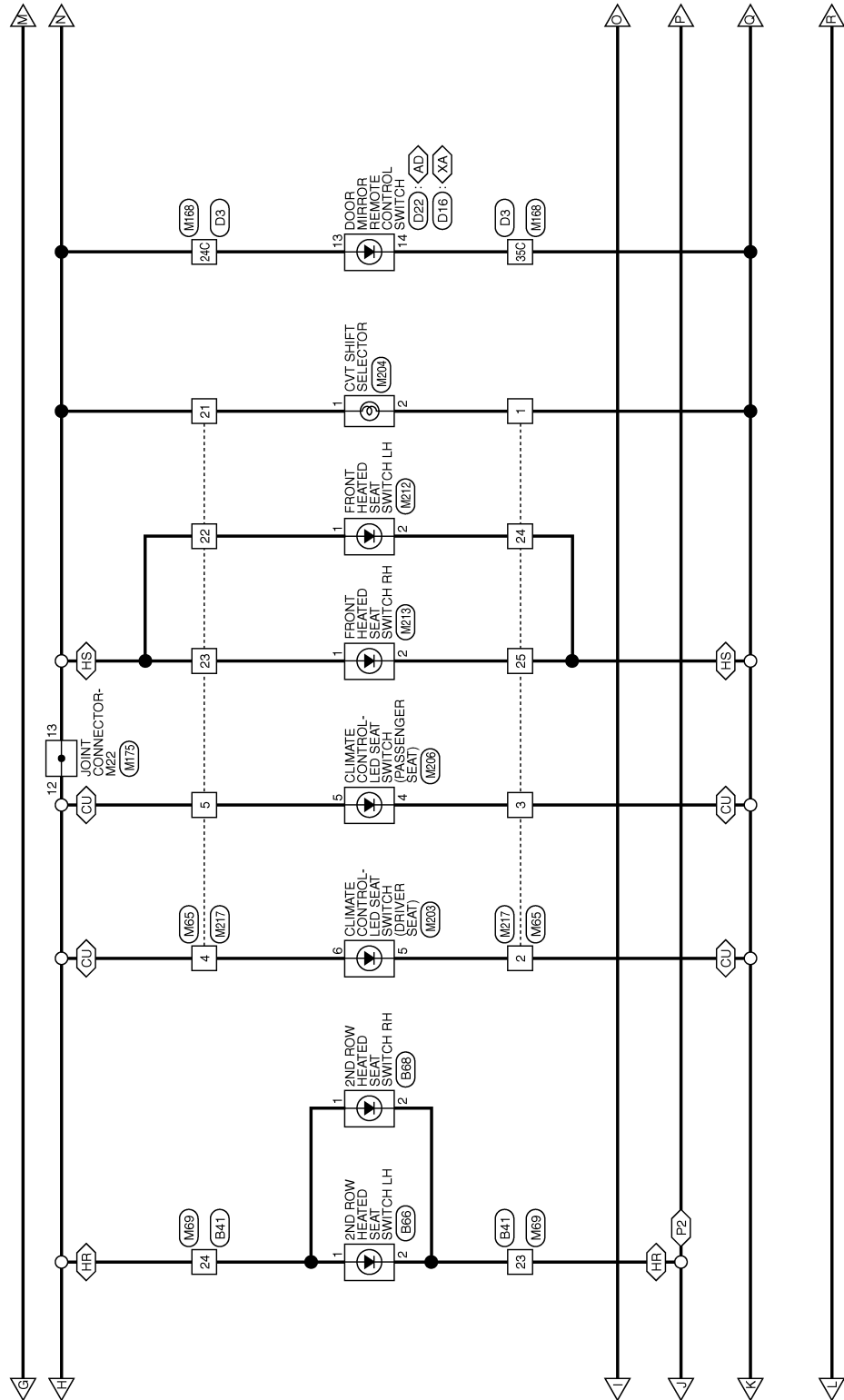


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ILLUMINATION

< WIRING DIAGRAM >

- ◊AD◊ : WITH AUTOMATIC DRIVE POSITIONER
- ◊CU◊ : WITH CLIMATE CONTROLLED SEATS
- ◊HR◊ : WITH REAR HEATED SEATS
- ◊HS◊ : WITH HEATED SEATS
- ◊P2◊ : WITH AUTOMATIC BACK DOOR
- ◊XA◊ : WITHOUT AUTOMATIC DRIVE POSITIONER



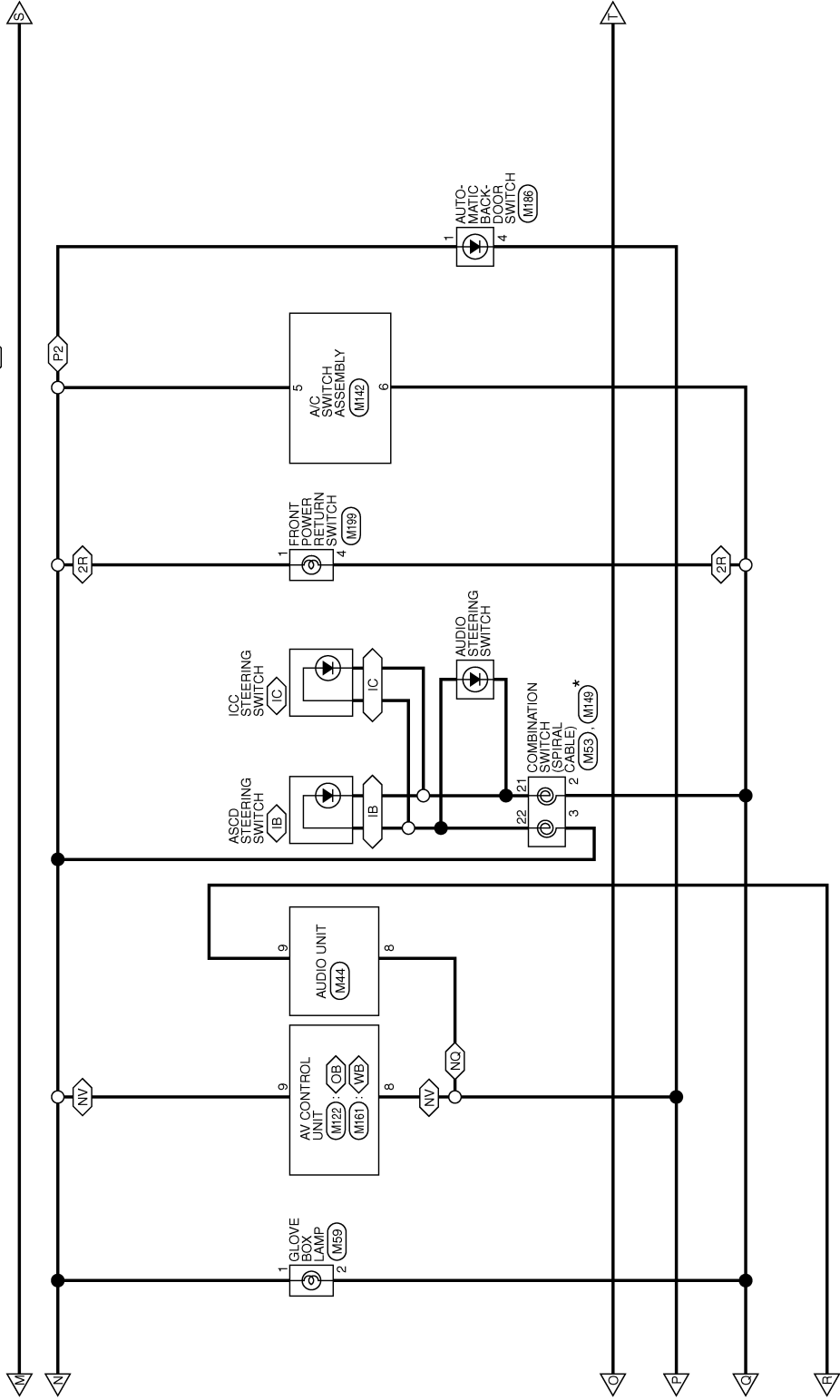
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ILLUMINATION

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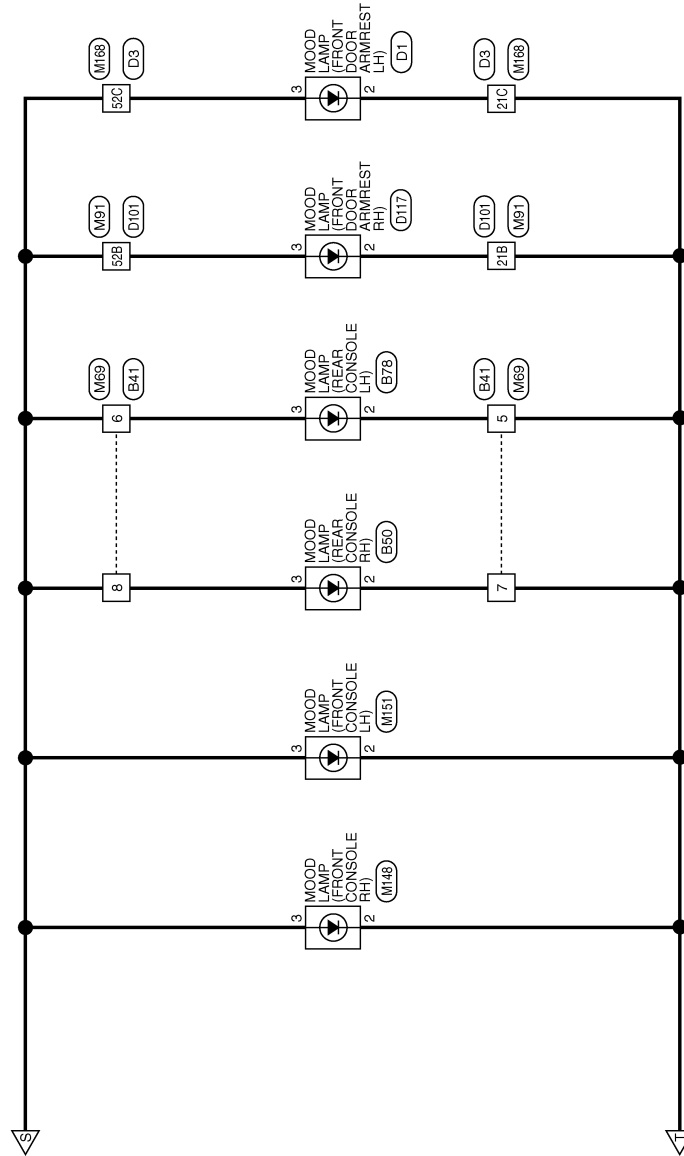
- IB > : WITHOUT INTELLIGENT CRUISE CONTROL
- IC > : WITH INTELLIGENT CRUISE CONTROL
- ND > : WITH DISPLAY AUDIO SYSTEM
- NV > : WITH NAVI
- OB > : WITHOUT BOSE AUDIO SYSTEM
- P2 > : WITH AUTOMATIC BACK DOOR
- WB > : WITH BOSE AUDIO SYSTEM
- 2R > : WITH SECOND ROW POWER RETURN SEATS



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ILLUMINATION

< WIRING DIAGRAM >

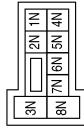


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ILLUMINATION CONNECTORS

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



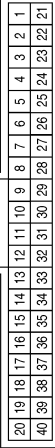
Terminal No.	Color of Wire	Signal Name
6N	W	-

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



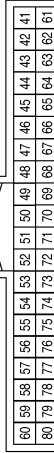
Terminal No.	Color of Wire	Signal Name
8P	BG	-
9P	L	-
13P	W	-

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



Terminal No.	Color of Wire	Signal Name
10	W	COMBI SW IN 5
11	BG	COMBI SW IN 4
12	R	COMBI SW IN 3
13	G	COMBI SW IN 2
14	P	COMBI SW IN 1
26	L	SHORTING INPUT

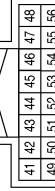
Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
48	P	HIGH SIDE START SW LED
59	P	CAN-L
60	L	CAN-H

Terminal No.	Color of Wire	Signal Name
68	R	MR OUTPUT (WITH DISPLAY AUDIO)
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	R	COMBI SW OUT 3
78	G	COMBI SW OUT 2
79	W	COMBI SW OUT 1

Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE

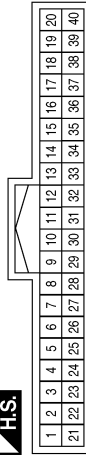


Terminal No.	Color of Wire	Signal Name
42	B	ILL CONT OUT
43	B	GND 1
44	BG	POWER (IGN)
45	B	GND 2
46	W	POWER (BAT)
47	R	INDIRECT ILL CONT OUT
52	L	CAN-L
53	P	CAN-H

ILLUMINATION

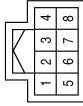
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Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



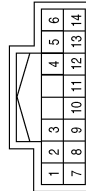
Terminal No.	Color of Wire	Signal Name
17	G	GND (SATELLITE SW)
36	BR	ILL UP SW
37	Y	ILL DOWN SW

Connector No.	M27
Connector Name	METER CONTROL SWITCH
Connector Color	WHITE



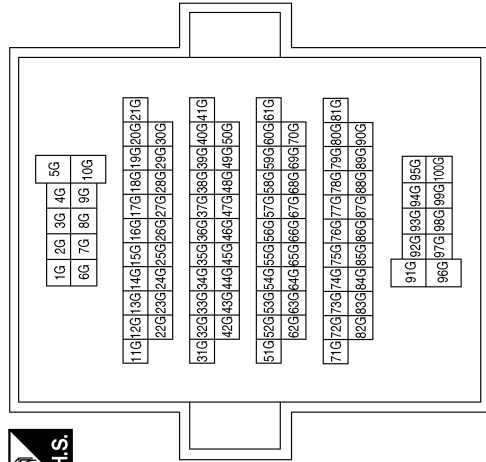
Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
4	G	-
6	BR	-
7	Y	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	BG	-
5	R	-
7	R	-
8	W	-
9	G	-
10	P	-
11	W	-
12	P	-
13	BG	-
14	G	-

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



Terminal No.	Color of Wire	Signal Name
5G	L	-
11G	P	-
12G	L	-

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ILLUMINATION

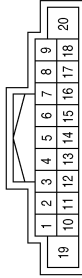
< WIRING DIAGRAM >

Connector No.	M32
Connector Name	DIODE-1
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	M44
Connector Name	AV CONTROL UNIT (WITH DISPLAY AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	B	ILL-
9	R	ILL+

Connector No.	M48
Connector Name	HEATED STEERING WHEEL SWITCH
Connector Color	BLUE



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

Connector No.	M53
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW



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

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



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

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Color	WHITE



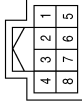
Terminal No.	Color of Wire	Signal Name
1	B	-
2	B	-
3	B	-
4	R	-
5	R	-
19	P	-
21	R	-
22	R	-
23	R	-
24	B	-
25	B	-
39	W	-

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ILLUMINATION

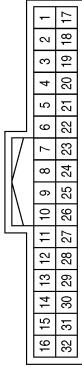
< WIRING DIAGRAM >

Connector No.	M71
Connector Name	VDC OFF SWITCH
Connector Color	BLACK



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

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



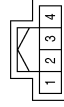
Terminal No.	Color of Wire	Signal Name
5	R	-
6	V	-
7	R	-
8	V	-
23	GR	-
24	R	-

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



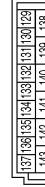
Terminal No.	Color of Wire	Signal Name
1R	R	-
12R	V	-

Connector No.	M83
Connector Name	HAZARD SWITCH
Connector Color	WHITE



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

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
131	W	BAT BCM FUSE
134	GR	GND 2
139	L	BAT POWER F/L
143	GR	GND 1

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
107	W	LOW SIDE START SW LED

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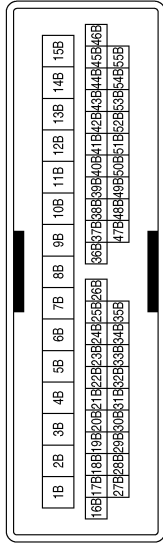
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ILLUMINATION

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
21B	R	-
52B	V	-

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Color	WHITE

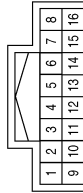


Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE

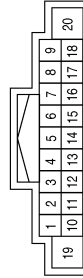


Terminal No.	Color of Wire	Signal Name
21	P	-
22	L	-
28	P	-
29	L	-

Connector No.	M142
Connector Name	A/C SWITCH ASSEMBLY
Connector Color	WHITE



Connector No.	M122
Connector Name	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	R	ILL +
6	B	ILL -

Terminal No.	Color of Wire	Signal Name
8	B	ILL -
9	R	ILL +

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ILLUMINATION

< WIRING DIAGRAM >

Connector No.	M148
Connector Name	MOOD LAMP (FRONT CONSOLE RH)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	R	-
3	V	-

Connector No.	M149
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY



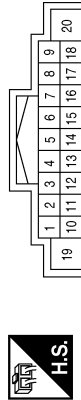
Terminal No.	Color of Wire	Signal Name
21	P	-
22	Y	-

Connector No.	M151
Connector Name	MOOD LAMP (FRONT CONSOLE LH)
Connector Color	WHITE



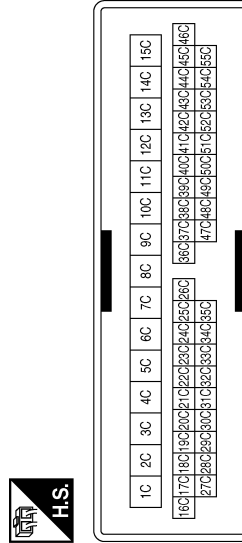
Terminal No.	Color of Wire	Signal Name
2	R	-
3	V	-

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



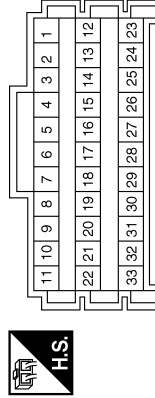
Terminal No.	Color of Wire	Signal Name
8	B	ILL -
9	R	ILL +

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
21C	R	-
24C	R	-
35C	B	-
52C	V	-

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	R	-
13	R	-
15	B	-
16	B	-
17	B	-

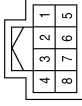
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ILLUMINATION

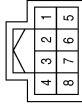
< WIRING DIAGRAM >

Connector No.	M199
Connector Name	FRONT POWER RETURN SWITCH
Connector Color	WHITE



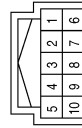
Terminal No.	Color of Wire	Signal Name
1	R	-
4	B	-

Connector No.	M186
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Color	GREEN



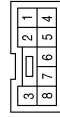
Terminal No.	Color of Wire	Signal Name
1	R	-
4	B	-

Connector No.	M185
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	R	-
4	B	-

Connector No.	M206
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SEAT)
Connector Color	BROWN



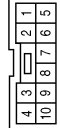
Terminal No.	Color of Wire	Signal Name
4	B	-
5	Y	-

Connector No.	M204
Connector Name	CVT SHIFT SELECTOR
Connector Color	BROWN



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

Connector No.	M203
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SEAT)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	B	-
6	SB	-

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ILLUMINATION

< WIRING DIAGRAM >

Connector No.	M213
Connector Name	FRONT HEATED SEAT SW RH
Connector Color	BROWN



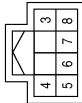
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	B	-

Connector No.	M212
Connector Name	FRONT HEATED SEAT SW LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	B	-

Connector No.	M208
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE



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

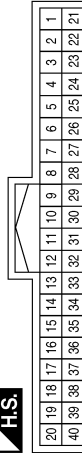
Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6M	L	-

Terminal No.	Color of Wire	Signal Name
24	B	-
25	B	-
39	L	-

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	B	-
3	B	-
4	SB	-
5	Y	-
19	P	-
21	Y	-
22	SB	-
23	BR	-

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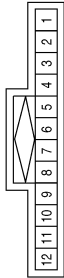
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ILLUMINATION

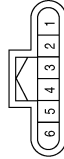
< WIRING DIAGRAM >

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



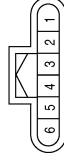
Terminal No.	Color of Wire	Signal Name
1	L	-
4	L	-
7	P	-
10	P	-

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



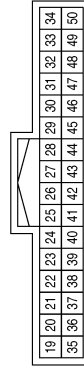
Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



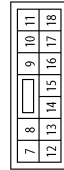
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
28	P	CAN-L
29	L	CAN-H
41	B	S-GND

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	B	P-GND
10	L	TAIL LH

ILLUMINATION

< WIRING DIAGRAM >

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

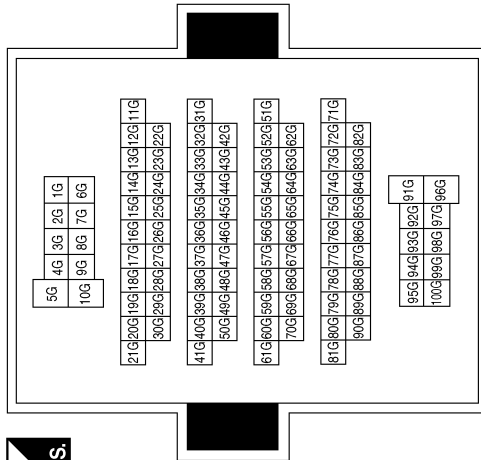


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
5	R	-
6	V	-
7	GRV	-
8	W/V	-
23	B	-
24	R	-

Terminal No.	Color of Wire	Signal Name
5G	P	-
11G	P	-
12G	L	-

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



Connector No.	B68
Connector Name	2ND ROW HEATED SEAT SWITCH RH
Connector Color	BROWN



1	2
3	4
5	6

Connector No.	B66
Connector Name	2ND ROW HEATED SEAT SWITCH LH
Connector Color	WHITE



1	2
3	4
5	6

Connector No.	B50
Connector Name	MOOD LAMP (REAR CONSOLE RH)
Connector Color	WHITE



4	3	2	1
---	---	---	---

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

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

Terminal No.	Color of Wire	Signal Name
2	GRV	-
3	W/V	-

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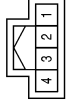
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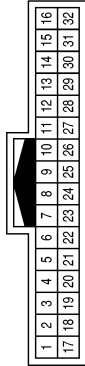
< WIRING DIAGRAM >

Connector No.	D1
Connector Name	MOOD LAMP (FRONT DOOR ARMREST LH)
Connector Color	WHITE



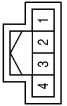
Terminal No.	Color of Wire	Signal Name
2	W/BR	-
3	V	-

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



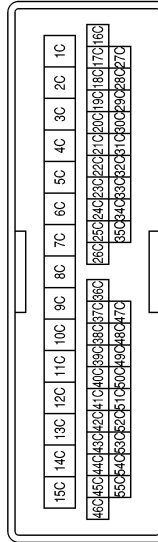
Terminal No.	Color of Wire	Signal Name
21	P	-
22	L	-
28	P	-
29	L	-

Connector No.	B78
Connector Name	MOOD LAMP (REAR CONSOLE LH)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	R	-
3	V	-

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



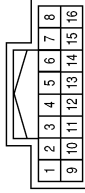
Terminal No.	Color of Wire	Signal Name
21C	W/BR	-
24C	G/L	-
35C	B	-
52C	V	-

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ILLUMINATION

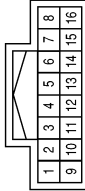
< WIRING DIAGRAM >

Connector No.	D22
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Color	GRAY



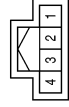
Terminal No.	Color of Wire	Signal Name
13	G/L	-
14	B	-

Connector No.	D16
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	BLACK



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

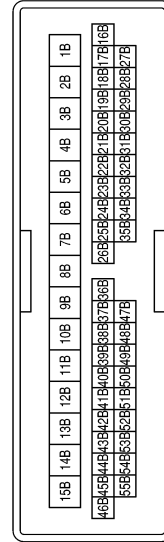
Connector No.	D117
Connector Name	MOOD LAMP (FRONT DOOR ARMREST RH)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	W/BR	-
3	V	-

Terminal No.	Color of Wire	Signal Name
21B	W/BR	-
52B	V	-

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



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DIAGNOSIS AND REPAIR WORKFLOW

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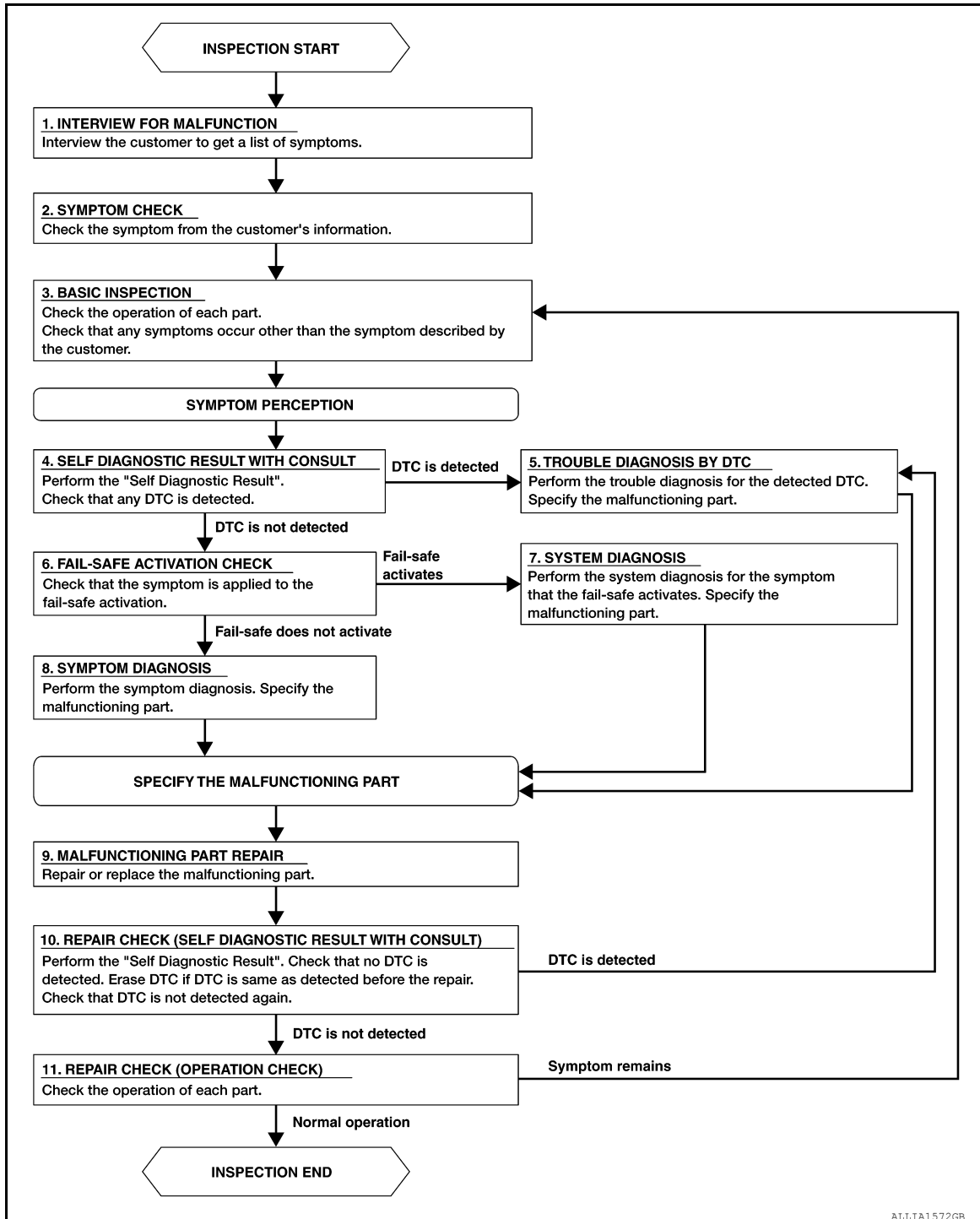
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000011498038

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 DIAGNOSTIC RESULT WITH CONSULT

Perform the "Self Diagnostic Result". 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-55. "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-DIAGNOSTIC RESULT WITH CONSULT)

Perform the "Self Diagnostic Result". Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

YES >> GO TO 5.

NO >> GO TO 11.

11.REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> Inspection End.

NO >> GO TO 3.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Component Function Check

INFOID:0000000011578413

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT

- Turn ignition switch ON.
- Turn each interior room lamp ON.
 - Personal lamps 2nd row
 - Front room/map lamp assembly
 - Luggage room lamp
 - Vanity lamps
- Select "BATTERY SAVER" of "BCM".
- Select "BATTERY SAVER" in "Active Test" mode.
- While operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp ON

On : Interior room lamp OFF

Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
NO >> Refer to [INL-47, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011578414

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT

- Turn ignition switch OFF.
- Disconnect the following connectors:
 - Personal lamps 2nd row
 - Front room/map lamp assembly
 - Luggage room lamp
 - Vanity lamps
- Turn ignition switch ON.
- Select "BATTERY SAVER" of "BCM".
- Select "BATTERY SAVER" in "Active Test" mode.
- While operating the test item, check voltage between BCM harness connector and ground.

BCM		(-)	Test item	Voltage (Approx.)	
(+) Connector					
Terminal					
M81	129	Ground	BATTERY SAVER	Off	Battery voltage
				On	0 V

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect the BCM connector.
- Check continuity between BCM harness connector and each interior room lamp harness connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M81	129	Front room/map lamp assembly	R6	8	Yes
		Luggage room lamp	B26	1	
		Vanity lamp LH	R14		
		Vanity lamp RH	R10		
		Personal lamp 2nd row LH	R16		
		Personal lamp 2nd row RH	R17		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Component Function Check

INFOID:0000000011218000

CAUTION:

Before performing the diagnosis, check that the following are normal:

- Battery saver output/power supply
- Front room/map lamp assembly bulbs
- Personal lamps 2nd row bulbs
- Luggage room lamp bulb

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT

1. Set the front room/map lamp assembly switch, personal lamps 2nd row switch and luggage lamp switch to DOOR:
2. Turn ignition switch ON.
3. Select "INT LAMP" of "BCM".
4. Select "INT LAMP" in "Active Test" mode.
5. While operating the test item, check that each interior room lamp turn ON/OFF.

On : Interior room lamp On

Off : Interior room lamp Off

Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp control circuit is normal.
NO >> Refer to [INL-49. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218001

Regarding Wiring Diagram information, refer to [INL-14. "Wiring Diagram"](#).

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT

1. Turn ignition switch ON.
2. Select "INT LAMP" "BCM".
3. Select "INT LAMP" in "Active Test" mode.
4. While operating the test item, check voltage between BCM harness connector and ground.

BCM		Ground	Test item		Voltage (Approx.)
Connector	Terminal		INT LAMP	On/Off	
M81	136		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.

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM harness connector and front room/map lamp assembly harness connector.
3. Check continuity between BCM harness connector and front room/map lamp assembly harness connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BCM		Front room/map lamp assembly		Continuity
Connector	Terminal	Connector	Terminal	
M81	136	R6	6	Yes

4. Disconnect the personal lamps 2nd row harness connector.
5. Check continuity between front room/map lamp assembly connector and personal lamps 2nd row harness connector.

Front room/map lamp assembly		Personal lamps 2nd row		Continuity
Connector	Terminal	Connector	Terminal	
R6	7	R16 (LH)	4	Yes
		R17 (RH)		

Is the inspection result normal?

YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to [INL-56, "Removal and Installation"](#) for front room/map lamp assembly or [INL-60, "Removal and Installation"](#) for personal lamps 2nd row. If OK, replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM harness connector and front room/map lamp harness connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	136		No

Is the inspection result normal?

YES >> Check interior room lamps for a short circuit. If NG, replace lamp in question. Refer to [INL-56, "Removal and Installation"](#) or [INL-60, "Removal and Installation"](#). If OK, replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

LUGGAGE ROOM LAMP

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP

Component Function Check

INFOID:000000011578411

NOTE:

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

- Interior room lamp power supply
- Luggage room lamp bulb

1.CHECK LUGGAGE ROOM LAMP OPERATION

CONSULT

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM".
3. Select "TRUNK/LUGGAGE LAMP TEST" in "Active Test" mode.
4. While operating the test items, check that luggage room lamp turns ON/OFF.

On : Luggage room lamp ON

Off : Luggage room lamp OFF

Does the luggage room lamp turn ON/OFF?

YES >> Luggage room lamp circuit is normal.

NO >> Refer to [INL-51, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011578412

1.CHECK LUGGAGE ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Disconnect luggage room lamp connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal		Back door	Open	Yes
M20	85			Closed	No

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Continuity exists and remains unchanged: GO TO 3.

NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

2.CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and luggage room lamp harness connector.

BCM		Luggage room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M20	85	B26	2	Yes

Is the inspection result normal?

YES >> Replace luggage room lamp. Refer to [INL-61, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

3.CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and ground.

LUGGAGE ROOM LAMP

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M20	85		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000011218008

Provides the power supply and the ground to control the push-button ignition switch illumination.

Component Function Check

INFOID:0000000011218009

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT

1. Turn the ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM".
3. Select "ENGINE SW ILLUMI" in "Active Test" mode.
4. While operating the test items, check that the push-button ignition switch illumination turns ON/OFF.

On : Push-button ignition switch illumination ON

Off : Push-button ignition switch illumination OFF

Does the push-button ignition switch illumination turn ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.

NO >> Refer to [INL-53, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218010

Regarding Wiring Diagram information, refer to [INL-27, "Wiring Diagram"](#).

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT

1. Turn the ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM".
3. Select "ENGINE SW ILLUMI" in "Active Test" mode.
4. While operating the test item, check voltage between push-button ignition switch connector terminal.

Terminals		Test item	Voltage (Approx.)
(+)	(-)		
Push-button ignition switch		ENGINE SW ILLUMI	
Connector	Terminal		
M208	5	ON	5 V
		OFF	0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

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

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

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M19	48	M208	5	Yes

Is the inspection result normal?

YES >> GO TO 3.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connectors.

3. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M19	48		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M208	6		Yes

Is the inspection result normal?

YES >> Replace push-button ignition switch. Refer to [SEC-151, "Removal and Installation"](#).

NO >> GO TO 5.

5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND OPEN CIRCUIT

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M208	6	M80	107	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness or connectors.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000011218011

NOTE:

Perform the "Self Diagnostic Result" with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
All the following lamps do not turn ON: • Front room/map lamp assembly • Personal lamps 2nd row • Luggage room lamp • Vanity lamp LH/RH	<ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM 	Battery saver output/power supply circuit Refer to INL-47, "Component Function Check" .
<ul style="list-style-type: none"> • Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed. 	<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-179, "Component Function Check" . Interior room lamp control circuit Refer to INL-49 .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM: System Description" .
Push-button ignition switch illumination does not illuminate.	<ul style="list-style-type: none"> • Harness between BCM and push-button ignition switch • BCM 	Push-button ignition switch illumination circuit Refer to INL-53 .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-82 .

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FRONT ROOM/MAP LAMP ASSEMBLY

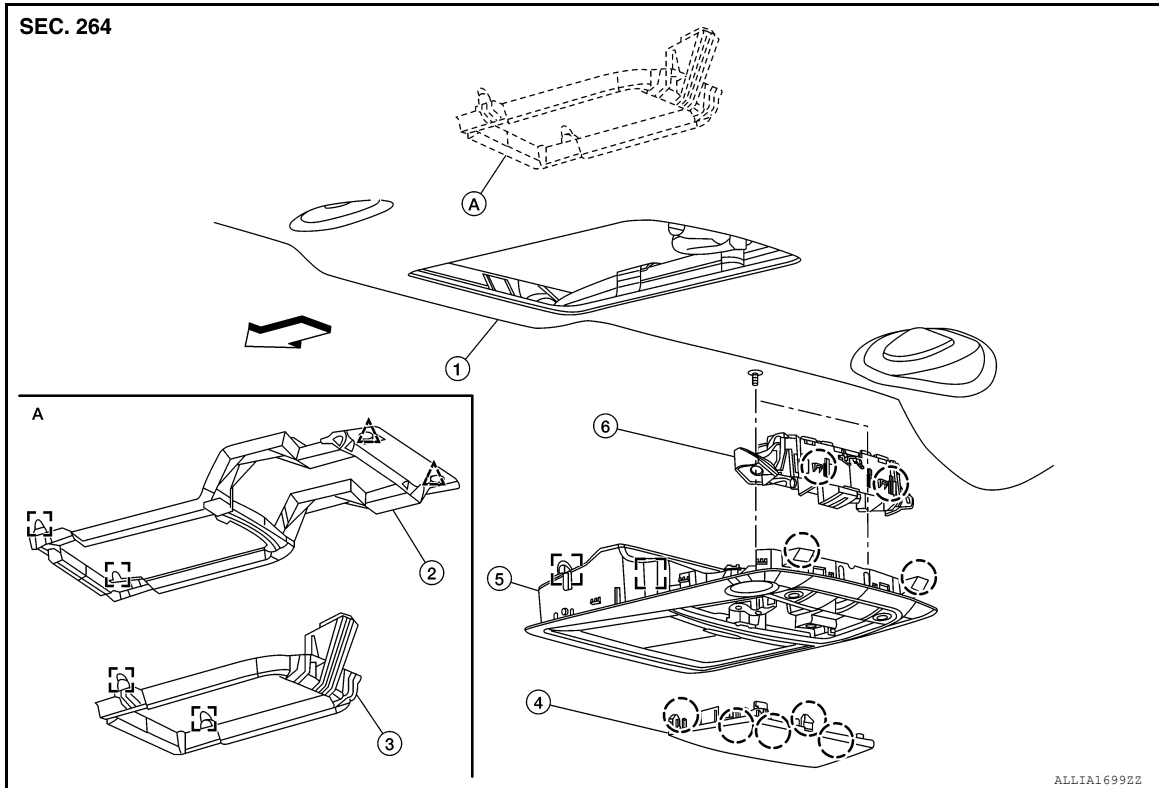
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

FRONT ROOM/MAP LAMP ASSEMBLY

Exploded View

INFOID:000000011218012



- | | | |
|-----------------------------------|--|---|
| 1. Headlining | 2. Front room/map lamp assembly bracket (without panoramic roof glass) | 3. Front room/map lamp assembly bracket (with panoramic roof glass) |
| 4. Panoramic roof switch finisher | 5. Front room/map lamp assembly | 6. Map lamp |
| Pawl | Clip | Metal Clip |
| Front | | |

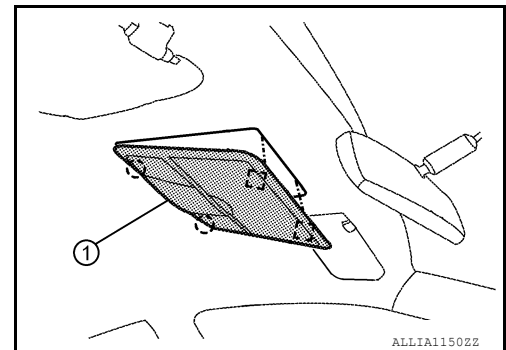
Removal and Installation

INFOID:000000011218013

REMOVAL

1. Lower front edge of map lamp assembly (1) down from headlining by releasing metals clips, then slide forward to clear pawls at rear.

- Metal clip
- Pawl



2. Disconnect the harness connectors from the map lamp assembly and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

FRONT ROOM/MAP LAMP ASSEMBLY

< REMOVAL AND INSTALLATION >

Visually check metal clips and pawls for deformation and damage during installation. Replace if necessary.

Bulb Replacement

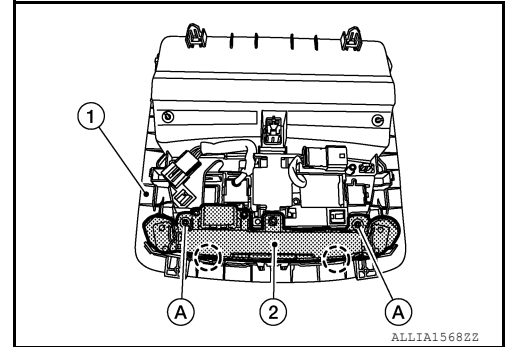
INFOID:000000011218014

NOTE:

The map lamp bulbs are replaced as part of the map lamp.

REMOVAL

1. Remove map lamp assembly. Refer to [INL-56. "Removal and Installation"](#).
2. Remove screws (A) from map lamp (2).
3. Release pawls and remove map lamp from map lamp assembly (1).
○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

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VANITY LAMP

< REMOVAL AND INSTALLATION >

VANITY LAMP

Removal and Installation

INFOID:000000011218016

CAUTION:

Do not attempt to separate the vanity lamp from the sun visor or damage to the components may occur.

The vanity lamp is serviced as part of the sun visor. Refer to [INT-27, "Removal and Installation"](#).

Bulb or Lens Replacement

INFOID:000000011218017

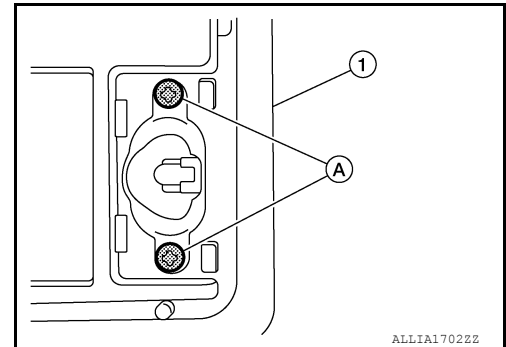
WARNING:

Do not touch glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

CAUTION:

- Do not touch glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect performance of lamp.
- Do not attempt to separate vanity lamp from sun visor or damage to components may occur.

1. Insert a suitable tool into gap between lens and vanity lamp, then gently release lens pawls and remove lens.
2. Remove screws (A) and remove vanity mirror (1) from sun visor.



3. Grasp bulb and pull straight out of vanity lamp to remove.
4. Install vanity lamp bulb to vanity lamp.
5. Install vanity mirror to sun visor.
6. Install vanity lamp lens.

GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Bulb Replacement

INFOID:000000011218019

The glove box lamp bulb is an LED and is serviced with the glove box assembly and housing. Refer to [JP-25](#), "[Removal and Installation](#)".

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PERSONAL LAMP

< REMOVAL AND INSTALLATION >

PERSONAL LAMP

Removal and Installation

INFOID:000000011218029

The personal lamp is serviced with the headlining. Refer to [INT-27, "Removal and Installation"](#).

Bulb Replacement

INFOID:000000011218030

The personal lamp bulb is an LED and is serviced with the personal lamp. Refer to [INL-60, "Removal and Installation"](#).

LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

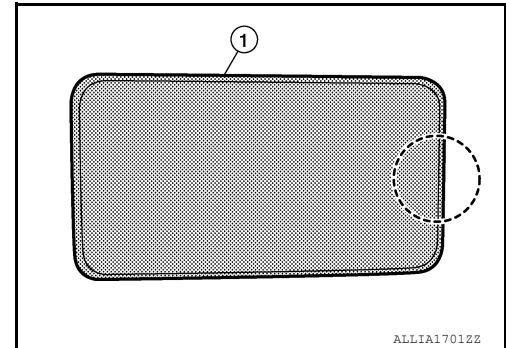
Removal and Installation

INFOID:000000011218032

REMOVAL

1. Release luggage room lamp (1) pawl using a suitable tool.

○: Pawl



2. Disconnect the harness connector from the luggage room lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb or Lens Replacement

INFOID:000000011218033

WARNING:

Do not touch glass surface of a bulb while it is lit or right after being turned OFF to prevent burns.

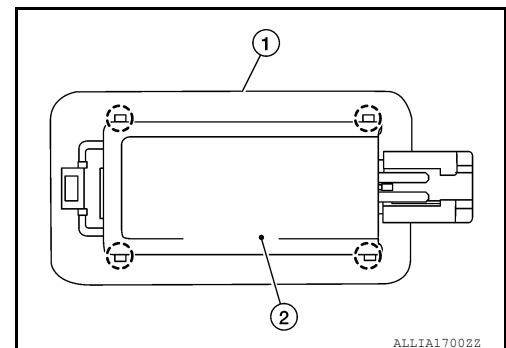
CAUTION:

- Do not touch glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect performance of lamp.
- Release and insert pawl as indicated in exploded view or damage may occur.

1. Remove luggage room lamp. Refer to [INL-61, "Removal and Installation"](#).

2. Release luggage room lamp cover (1) pawls using a suitable tool and remove from luggage room lamp (2).

○: Pawl



3. Push tab to release one bulb end, then grasp bulb and pull out second end from its socket to remove.
4. Install cargo lamp bulb to cargo lamp.
5. Install luggage room lamp. Refer to [INL-61, "Removal and Installation"](#).

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MOOD LAMP

< REMOVAL AND INSTALLATION >

MOOD LAMP

Removal and Installation

INFOID:000000011578434

FRONT CONSOLE

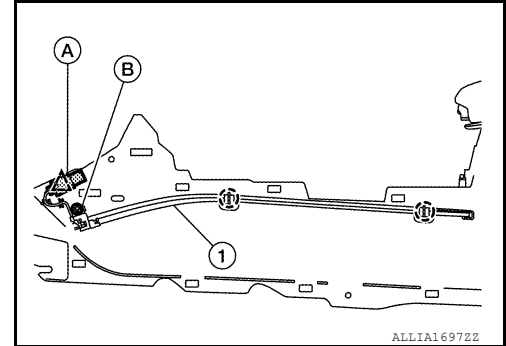
Removal

1. Remove center console upper side finisher. Refer to [IP-19, "Exploded View"](#).
2. Remove mood lamp (front console) (1) screw (B).
3. Release harness connector (A) clip using a suitable tool and disconnect the harness connector from the mood lamp (front console).

△: Clip

4. Release pawls using a suitable tool and remove mood lamp (front console).

○: Pawl



Installation

Installation is in the reverse order of removal.

REAR CONSOLE

The mood lamp (rear console) is serviced as part of the center console tray. Refer to [IP-19, "Exploded View"](#).

FRONT DOOR ARMREST

The mood lamp (front door armrest) is serviced as part of the front door finisher. Refer to [INT-15, "Removal and Installation"](#).

Bulb Replacement

INFOID:000000011578435

MOOD LAMP BULBS

The mood lamp bulbs are LED and not serviced separately. Refer to [INL-62, "Removal and Installation"](#).

ILLUMINATION CONTROL SWITCH

< REMOVAL AND INSTALLATION >

ILLUMINATION CONTROL SWITCH

Removal and Installation

INFOID:000000011218034

The illumination control switch is serviced as part of the meter control switch. Refer to [MWI-79, "Removal and Installation"](#).

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000011218035

Item	Wattage (W)*
Front room/map lamp assembly	–
Vanity lamp	1.3
Glove box lamp	–
Personal lamp	–
Luggage room lamp	5
Mood lamp (front console)	–
Mood lamp (rear console)	–
Mood lamp (door armrest)	–

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