

A
B
C

SECTION INL

INTERIOR LIGHTING SYSTEM

CONTENTS

PRECAUTION	COMMON ITEM	F
PRECAUTIONS	COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	G
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	INT LAMP	H
Precaution for Procedure without Cowl Top Cover.....	INT LAMP : CONSULT Function (BCM - INT LAMP)	I
Precautions For Xenon Headlamp Service	BATTERY SAVER	J
Precautions for Removing Battery Terminal	BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)	K
SYSTEM DESCRIPTION	ECU DIAGNOSIS INFORMATION	
COMPONENT PARTS	BCM	
INTERIOR LIGHTING SYSTEM	List of ECU Reference	
INTERIOR LIGHTING SYSTEM : Component Parts Location	WIRING DIAGRAM	
INTERIOR LIGHTING SYSTEM : Component Description	INTERIOR ROOM LAMP CONTROL SYSTEM	
SYSTEM	Wiring Diagram	
INTERIOR ROOM LAMP CONTROL SYSTEM	ILLUMINATION	
INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram	Wiring Diagram	
INTERIOR ROOM LAMP CONTROL SYSTEM : System Description	BASIC INSPECTION	
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM	DIAGNOSIS AND REPAIR WORK FLOW	
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram	Work Flow	
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description	DTC/CIRCUIT DIAGNOSIS	
ILLUMINATION CONTROL SYSTEM	INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT	
ILLUMINATION CONTROL SYSTEM : System Diagram	Description	
ILLUMINATION CONTROL SYSTEM : System Description	Component Function Check	
DIAGNOSIS SYSTEM (BCM)	Diagnosis Procedure	
	INTERIOR ROOM LAMP CONTROL CIRCUIT	
	Description	
	Component Function Check	

Diagnosis Procedure	40	Removal and Installation	46
LUGGAGE ROOM LAMP CIRCUIT	42	Replacement	47
Description	42	GLOVE BOX LAMP	48
Diagnosis Procedure	42	Exploded View	48
PUSH-BUTTON IGNITION SWITCH ILLUMI-		Removal and Installation	48
NATION CIRCUIT	43	Replacement	48
Description	43	LUGGAGE ROOM LAMP	49
Component Function Check	43	Exploded View	49
Diagnosis Procedure	43	Removal and Installation	49
SYMPTOM DIAGNOSIS	45	Replacement	49
INTERIOR LIGHTING SYSTEM SYMPTOMS...	45	SERVICE DATA AND SPECIFICATIONS	
Symptom Table	45	(SDS)	51
REMOVAL AND INSTALLATION	46	SERVICE DATA AND SPECIFICATIONS	
MAP LAMP	46	(SDS)	51
Exploded View	46	Bulb Specifications	51

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012196993

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 "SRS AIR BAG".
- Never 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:

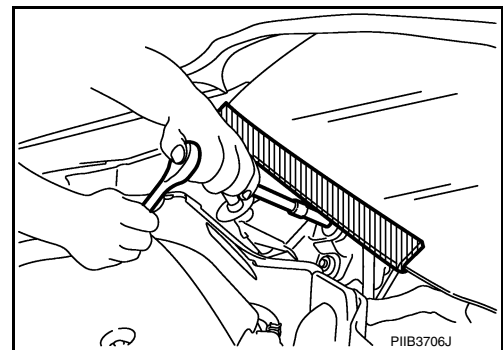
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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 or batteries, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000012964910

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precautions For Xenon Headlamp Service

INFOID:000000012964911

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

A
B
C
D
E
F
G
H
I
J
K
INL
M
N
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PRECAUTIONS

< PRECAUTION >

(Turning it ON outside the lamp case may cause fire or visual impairments.)

- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

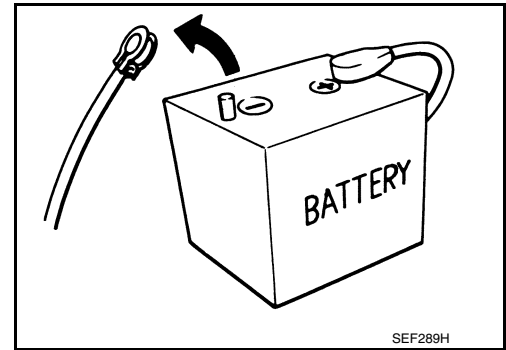
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
 - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
 - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

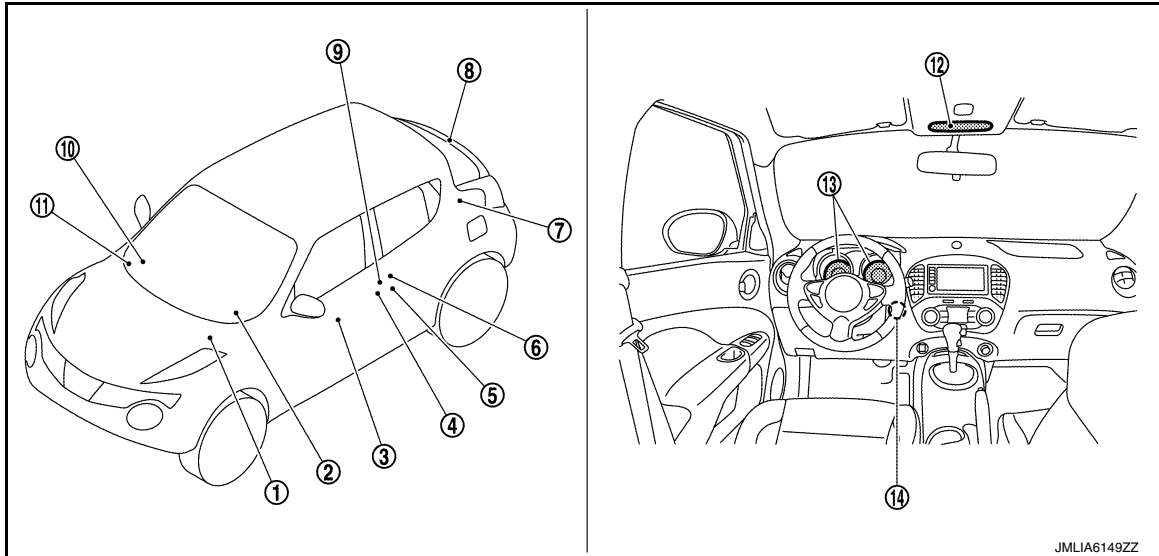
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR LIGHTING SYSTEM

INTERIOR LIGHTING SYSTEM : Component Parts Location

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- | | | |
|---|--|--------------------------------|
| 1. IPDM E/R
Refer to PCS-5, "Component Parts Location" | 2. BCM
Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" | 3. Door lock and unlock switch |
| 4. Front door request switch (driver side) | 5. Front door lock assembly (driver side) (unlock sensor) | 6. Door switch |
| 7. Luggage room lamp | 8. Back door switch | 9. Door key cylinder switch |
| 10. Remote keyless entry receiver
Refer to DLK-9, "Component Parts Location" | 11. Optical sensor | 12. Map lamp |
| 13. Combination meter | 14. Push-button ignition switch | |

INTERIOR LIGHTING SYSTEM : Component Description

INFOID:000000012196996

Part	Description
BCM	Controls the interior lighting system.
IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication).
Remote keyless entry receiver	Receives the lock/unlock signal from Keyfob.
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description" .
<ul style="list-style-type: none"> Door lock and unlock switch Door request switch 	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.
Back door switch	Inputs the back door switch signal to BCM.
Unlock sensor	Detects door lock condition of driver side door.
Optical sensor	Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.

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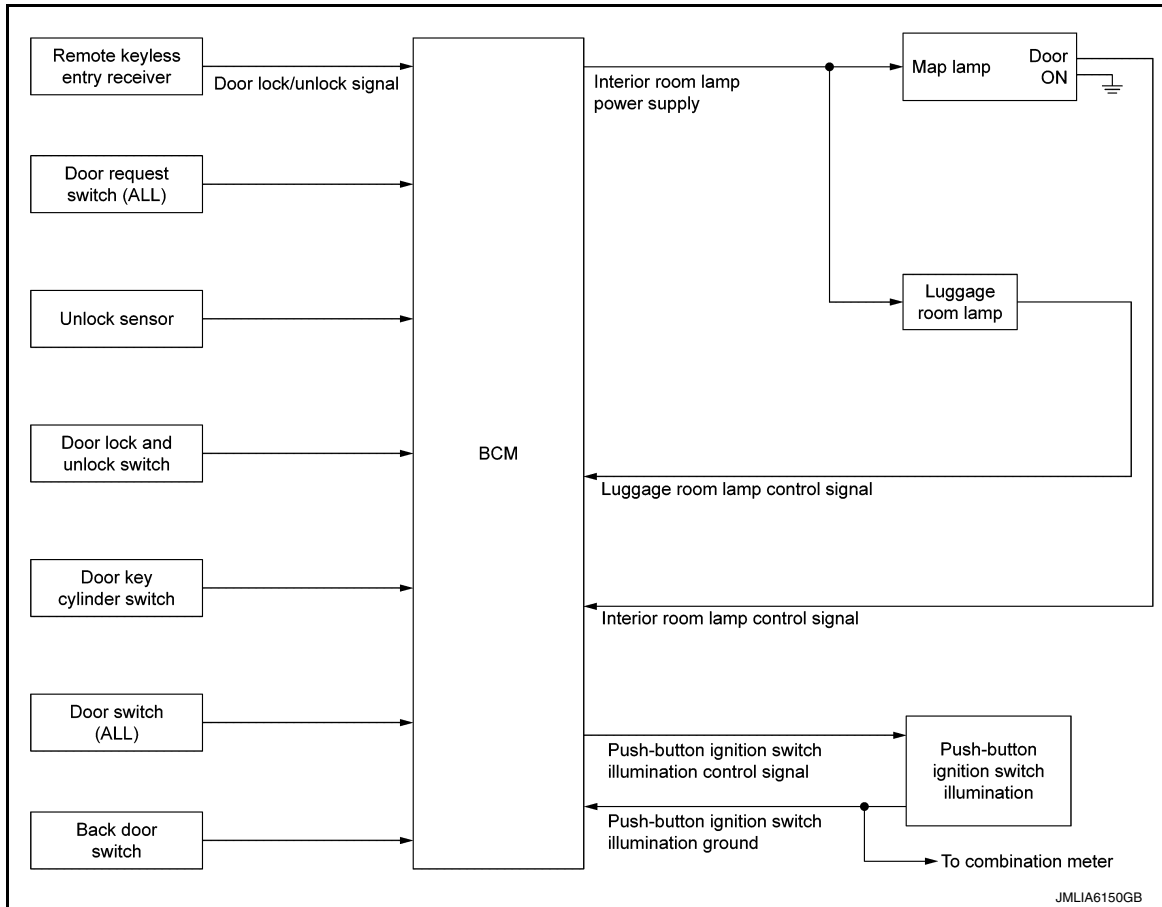
< SYSTEM DESCRIPTION >

SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

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INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:000000012196998

OUTLINE

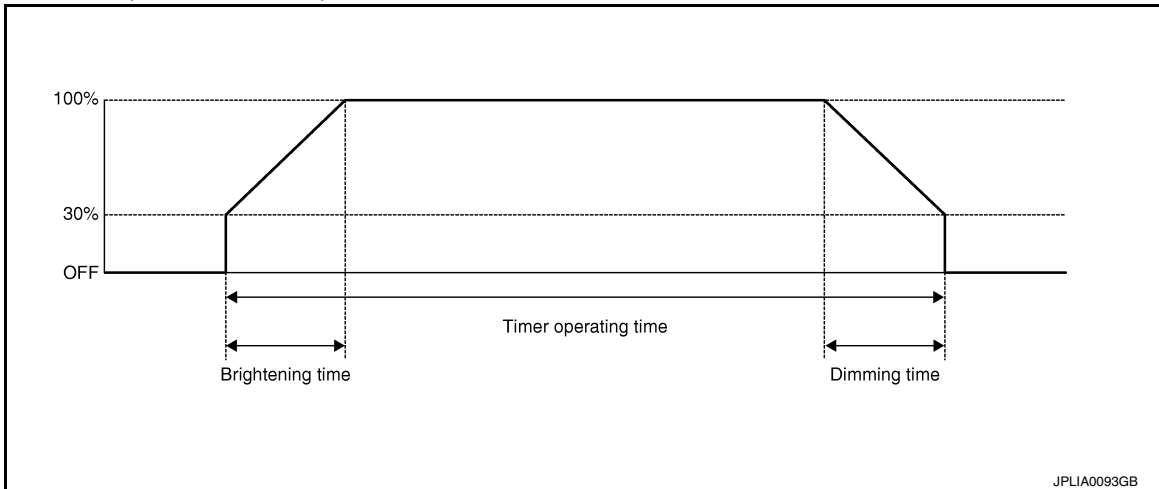
- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
 - *: Map lamp (when map lamp switch is in DOOR position).
- Luggage room lamp is controlled by luggage room lamp control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.

INTERIOR ROOM LAMP TIMER CONTROL

SYSTEM

< SYSTEM DESCRIPTION >

Interior Room Lamp Timer Basic Operation



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

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-12, "INT LAMP : CONSULT Function \(BCM - INT LAMP\)"](#).

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens except back door.
- BCM activates the interior room lamp timer in any of the following conditions to turn the interior room lamp ON for a period of time.
 - Status of all doors except back door changes from open to close
 - Ignition switch is turned ON → OFF
 - Door unlock signal is detected when all doors close except back door with ignition switch OFF

NOTE:

The timer restarts if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

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

- The timer operating time is expired
- Ignition switch is turned OFF → ACC/ON
- Door lock signal is detected with all doors close except back door.

LUGGAGE ROOM LAMP CONTROL

BCM turns luggage room lamp ON when the following condition is detected.

- Back door switch is ON

BCM turns luggage room lamp OFF when the following condition is detected.

- Back door switch is OFF

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

BCM provides the power supply to turn the push-button ignition switch illumination ON.

Push-button Ignition Switch Illumination ON Operation

BCM turns the push-button ignition switch illumination ON in the following conditions.

- Ignition switch ON
- Tail lamp ON
- Any of the following conditions with ignition switch OFF/ACC
 - Engine start permission is entered
 - Driver side door is LOCK → UNLOCK
 - Driver side door is open

SYSTEM

< SYSTEM DESCRIPTION >

Push-button Ignition Switch Illumination OFF Operation

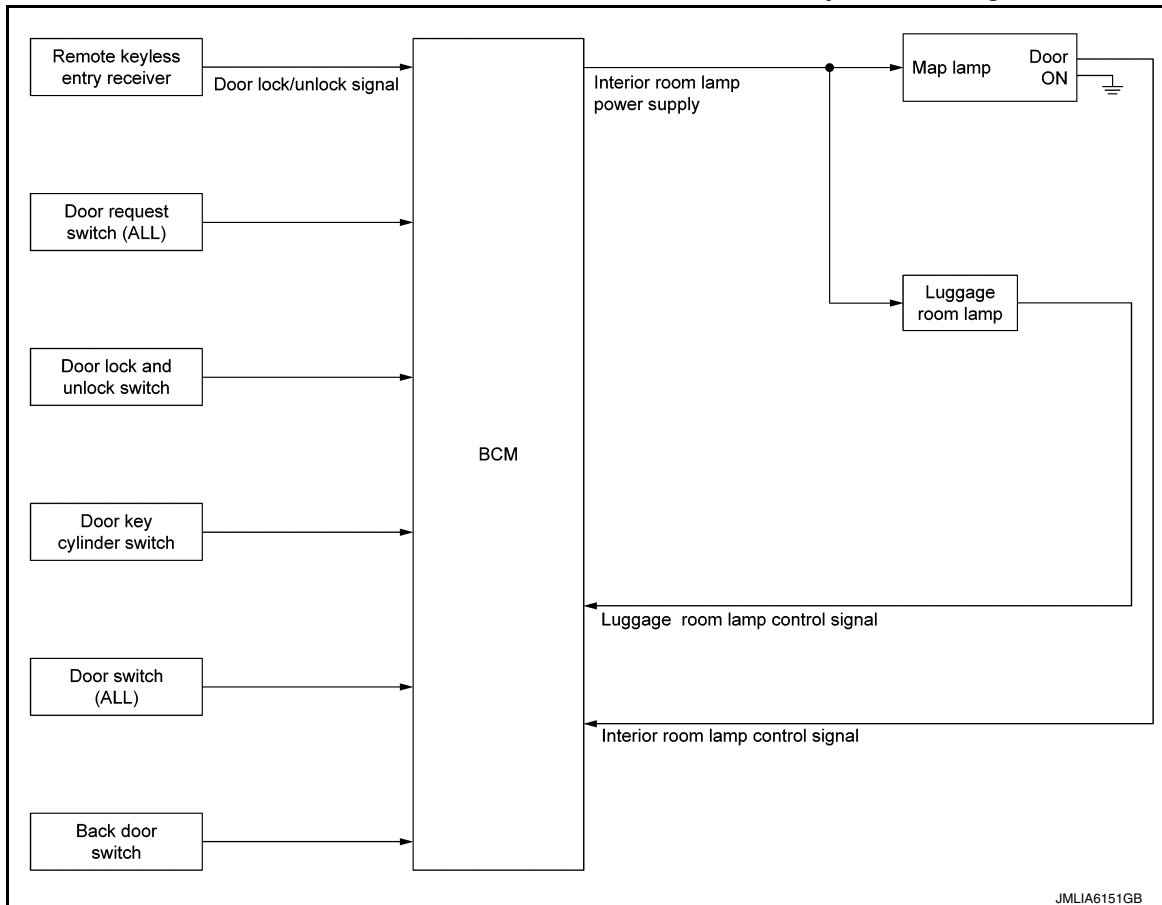
BCM turns the push-button ignition switch illumination OFF in any of the following conditions.

- The push-button ignition switch illumination ON conditions do not satisfy.
- Any of the following conditions with ignition switch OFF.
- The push-button ignition switch illumination ON conditions do not change (15 seconds after the ignition switch OFF)
- Driver side door is UNLOCK → LOCK

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:000000012196999



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000012197000

OUTLINE

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

Applicable lamps

- Map lamp
- Luggage room lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

SYSTEM

< SYSTEM DESCRIPTION >

- BCM provides the interior room lamp power supply continuously when the ignition switch position is ON.

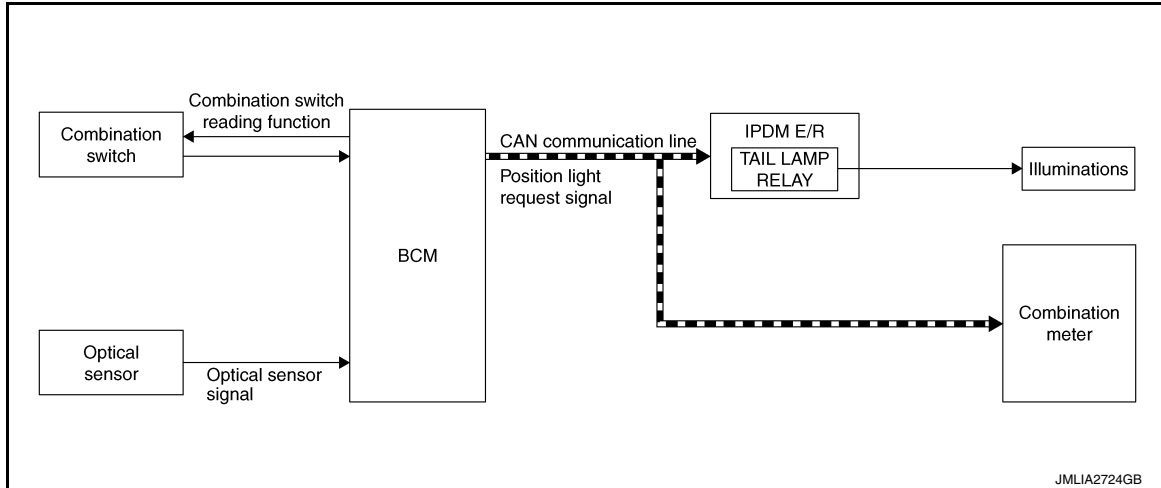
NOTE:

Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-13. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\)"](#).

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

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ILLUMINATION CONTROL SYSTEM : System Description

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OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-11. "SPEEDOMETER : System Description"](#).)

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

Tail lamp ON condition

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

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012946726

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning system	AIR CONDITONER		×	×*
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Theft warning alarm	THEFT ALM	×	×	×
RAP	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

NOTE:

*: For models with automatic A/C, this diagnosis mode is not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	While turning BCM status from low power consumption mode to normal mode (Power position is "LOCK".)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power position is "OFF".)
	LOCK>ACC		While turning power position from "LOCK"* to "ACC"
	ACC>ON		While turning power position from "ACC" to "IGN"
	RUN>ACC		While turning power position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power position from "ACC" to "OFF"
	OFF>LOCK		While turning power position from "OFF" to "LOCK"*
	OFF>ACC		While turning power position from "OFF" to "ACC"
	ON>CRANK		While turning power position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power position is "LOCK".) to low power consumption mode
	LOCK		Power position is "LOCK"*
	OFF		Power position is "OFF" (Ignition switch OFF)
	ACC		Power position is "ACC" (Ignition switch ACC)
	ON		Power position is "IGN" (Ignition switch ON with engine stopped)
ENGINE RUN	Power position is "RUN" (Ignition switch ON with engine running)		
CRANKING	Power position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <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 switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 	

NOTE:

*: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models and CVT models), 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 position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

INT LAMP

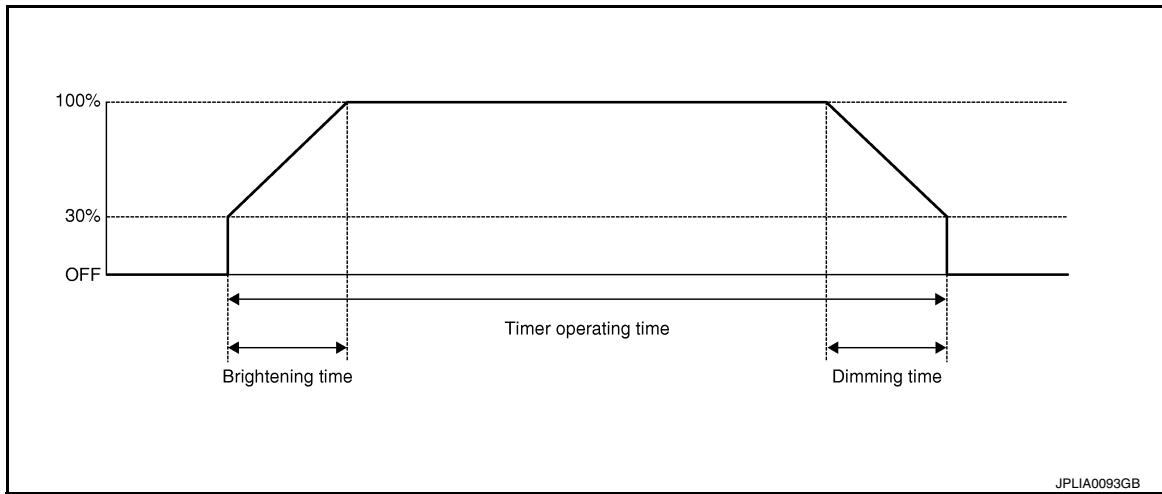
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:000000012197004

WORK SUPPORT



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Service item	Setting item	Setting
ROOM LAMP TIMER SET	MODE 2	7.5 sec.
	MODE 3*	15 sec.
	MODE 4	30 sec.
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function
	Off	Without the interior room lamp timer function
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.
	MODE 2*	1 sec.
	MODE 3	2 sec.
	MODE 4	3 sec.
	MODE 5	0 sec.
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates with synchronizing all doors.
	MODE 2	Interior room lamp timer activates with synchronizing the driver door only.
FOG LAMP OVERRIDE	On	With front fog override function
	Off*	Without front fog override function

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal.
	Off	Stops the interior room lamp control signal.
STEP LAMP TEST	On	NOTE: This item is indicated, but can not tested
	Off	

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:000000012197005

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating time. NOTE: The factor setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
	MODE 2	60 min.	
	MODE 3	15 min.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	
IGN BATTERY SAVER SET	MODE 1	Without	Sets the ignition battery saver timer operating time.
	MODE 2	30 min.	
	MODE 3*	10 min.	
	MODE 4	5 min.	
	MODE 5	60 min.	
ACC BATTERY SAVER SET	MODE 1	Without	Sets the accessory battery saver timer operating time.
	MODE 2*	30 min.	
	MODE 3	10 min.	
	MODE 4	5 min.	
	MODE 5	60 min.	

*:Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: This item is displayed, but cannot be monitored
REQ SW-RL [On/Off]	NOTE: This item is displayed, but cannot be monitored
PUSH SW [On/Off]	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR [On/Off]	Indicates [On/Off] condition of driver door UNLOCK status
DOOR SW-DR [On/Off]	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS [On/Off]	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR [On/Off]	Indicated [On/Off] condition of rear door switch RH
DOOR SW- RL [On/Off]	Indicated [On/Off] condition of rear door switch LH
DOOR SW- BK [On/Off]	Indicated [On/Off] condition of back door switch
CDL LOCK SW [On/Off]	Indicated [On/Off] condition of lock signal from door lock unlock switch

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
CDL UNLOCK SW [On/Off]	Indicated [On/Off] condition of unlock signal from door lock unlock switch
TRNK/HAT MNTR [On/Off]	NOTE: This item is displayed, but cannot be monitored
KEY CYL LK-SW [On/Off]	Indicated [On/Off] condition of lock signal from door key cylinder
KEY CYL UN-SW [On/Off]	Indicated [On/Off] condition of unlock signal from door key cylinder
RKE-LOCK [On/Off]	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK [On/Off]	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

ACTIVE TEST

Test item	Operation	Description
BATTERY SAVER	Off	Cuts the interior room lamp power supply.
	On	Outputs the interior room lamp power supply.

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BCM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:000000012197006

ECU	Reference
BCM	BCS-39. "Reference Value"
	BCS-60. "Fail-safe"
	BCS-61. "DTC Inspection Priority Chart"
	BCS-62. "DTC Index"

INTERIOR ROOM LAMP CONTROL SYSTEM

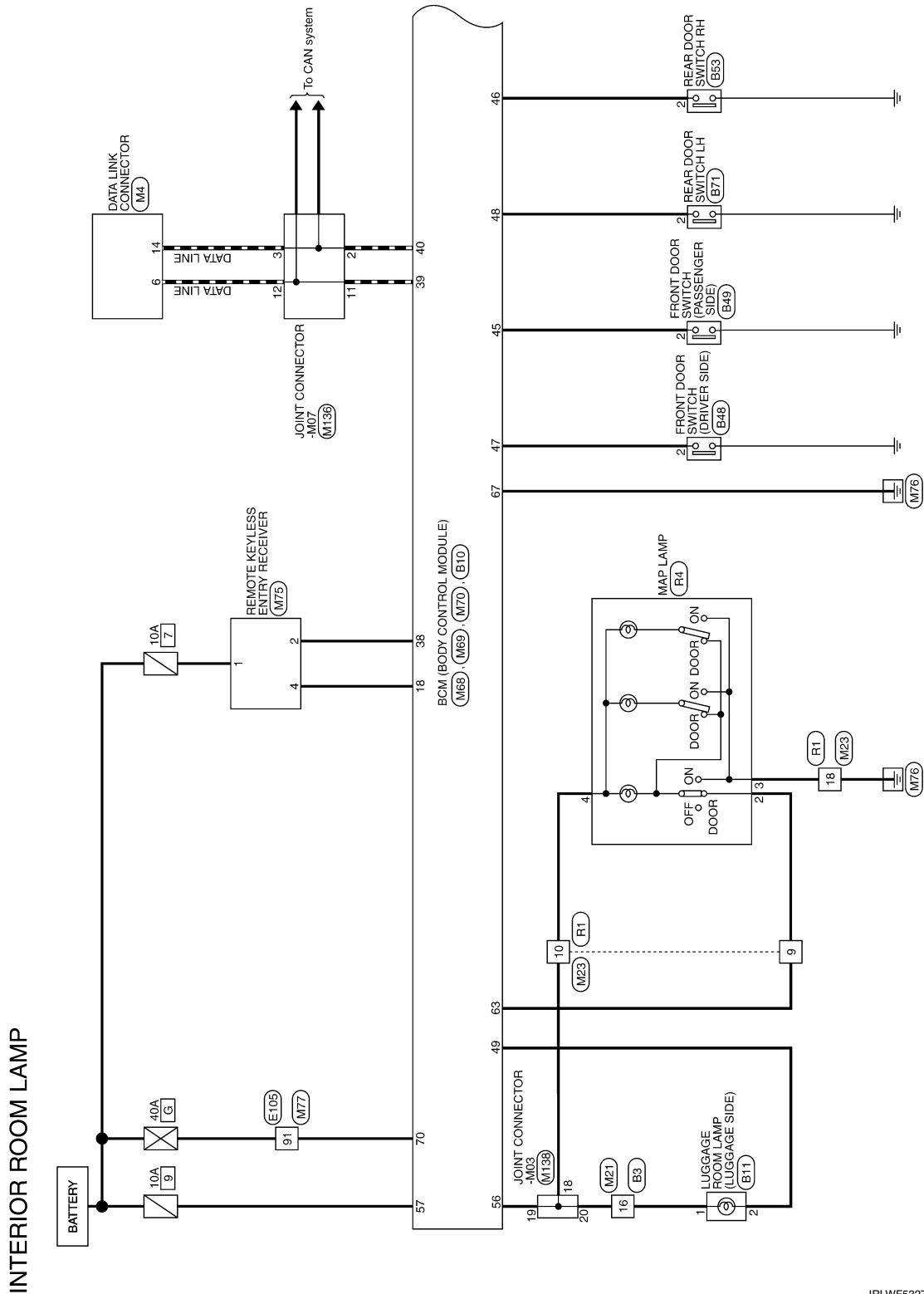
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WIRING DIAGRAM

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram

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2015/08/18

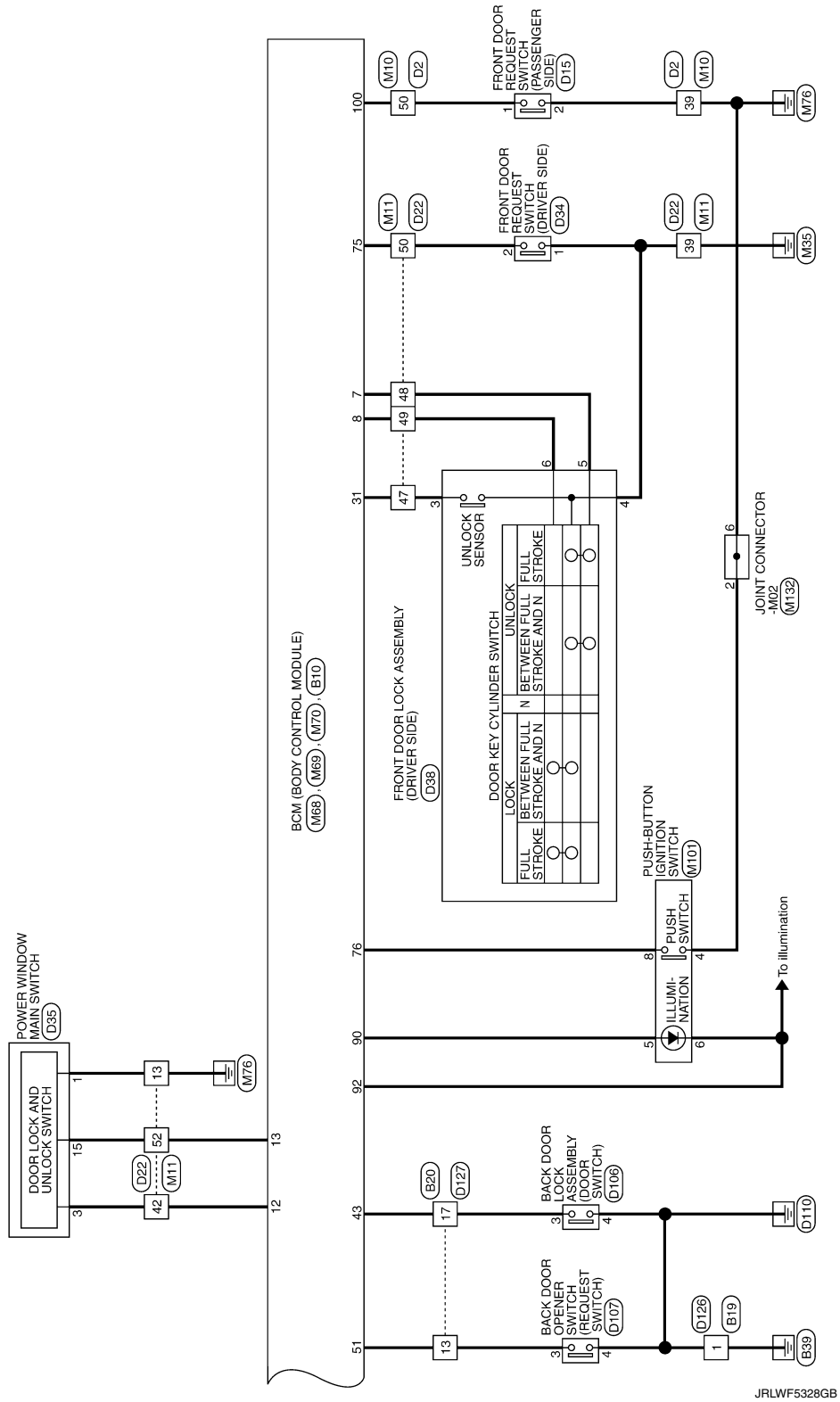
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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >



INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	B5E
Connector Name	WIRE TO WIRE
Connector Type	7P23PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
10	SHIELD	-
11	R	-
12	G	-
13	W	-
14	B	-
15	L	-
16	BR	-
17	LG	-
18	W	-
19	G	-
20	Y	-
26	Y	-
27	SHIELD	-
28	W	-
29	R	-
30	B	-
32	R	-

Connector No.	B5D
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA9FB-FH4G-5A



Terminal No.	Color Of Wire	Signal Name [Specification]
43	P	BACK DOOR SW
44	LG	REAR WIPER MOTOR POSITION
45	R	PASSENGER DOOR SW
46	LG	REAR RH DOOR SW
47	SR	DRIVER DOOR SW
48	BR	REAR LH DOOR SW
49	L	LUGGAGE LAMP OUTPUT
51	Y	BK DOOR OPEN OUTPUT
54	P	REAR WIPER OUTPUT
55	G	RR DOOR LINK OUTPUT

Connector No.	B11
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	NS22FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	L	-

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	M02M8-P-LC



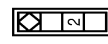
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-

Connector No.	B3D
Connector Name	WIRE TO WIRE
Connector Type	NH10AW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
7	GR	-
8	LG	-
9	R	-
10	B	-
12	R	-
13	Y	-
14	SHIELD	-
15	W	-
16	G	-
18	GR	-

Connector No.	B48
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	SR	-

Connector No.	B49
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-

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INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

Connector No.	D371
Connector Name	REAR DOOR SWITCH LH
Connector Type	MS361PW

HS logo and connector pinout diagram for D371 showing terminals 1 through 16.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

HS logo and connector pinout diagram for D2 showing terminals 1 through 16.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	GR	-
3	Y	-
4	V	-
13	W	-
14	SB	-
15	L	-
16	GR	-
17	Y	-
18	W	-
19	R	-
24	R	-
25	G	-
38	G	-
39	B	-
40	LG	-
41	Y	-
43	P	-
44	V	-

45	W	-
46	BG	-
50	P	-

Connector No.	D15
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02FGY

HS logo and connector pinout diagram for D15 showing terminals 1 through 12.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

HS logo and connector pinout diagram for D22 showing terminals 1 through 16.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	V	-
7	G	-
8	BG	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	P	-

16	LG	-
17	BR	-
18	V	-
19	V	-
24	G	-
25	R	-
38	G	-
39	B	-
40	V	-
41	P	-
42	R	-
43	GR	-
44	W	-
45	Y	-
46	BG	-
47	G	-
48	L	-
49	R	-
50	LG	-
52	BR	-

Connector No.	D24
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RK02FGY

HS logo and connector pinout diagram for D24 showing terminals 1 through 12.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	LG	-

Connector No.	D35
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	MS361PW-CS

HS logo and connector pinout diagram for D35 showing terminals 1 through 16.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	SB	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) DOWN SIGNAL
3	R	-
4	P	ENCODER SIGNAL 2
5	W	ENCODER SIGNAL 1
6	Y	REAR POWER WINDOW MOTOR RH DOWN SIGNAL
7	LG	REAR POWER WINDOW MOTOR RH UP SIGNAL
8	BG	REAR POWER WINDOW MOTOR LH DOWN SIGNAL
9	G	REAR POWER WINDOW MOTOR LH UP SIGNAL
10	L	IGNITION POWER SUPPLY
12	LG	ENCODER GROUND
14	G	ENCODER POWER SUPPLY
15	BR	-
16	W	FRONT POWER WINDOW MOTOR (PASSENGER SIDE) UP SIGNAL

Connector No.	D38
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EE6FCV-8S

HS logo and connector pinout diagram for D38 showing terminals 1 through 8.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	G	-
4	B	-
5	L	-
6	R	-

INTERIOR ROOM LAMP CONTROL SYSTEM

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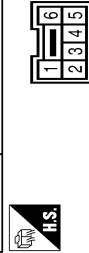
INTERIOR ROOM LAMP

Connector No.	D106
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS44FW-CS



Terminal No.	Color Of Wire	Signal Name (Specification)
1	GR	-
2	B	-
3	P	-
4	B	-

Connector No.	D107
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TR06FW-1V



Terminal No.	Color Of Wire	Signal Name (Specification)
1	L	-
2	B	-
3	SB	-
4	B	-
5	V	-
6	B	-

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	M02FB-1C



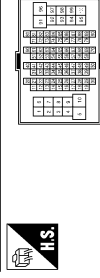
Terminal No.	Color Of Wire	Signal Name (Specification)
1	B	-
2	R	-

Connector No.	D127
Connector Name	WIRE TO WIRE
Connector Type	NH1DFW-CS10



Terminal No.	Color Of Wire	Signal Name (Specification)
7	GR	-
8	LG	-
9	R	-
10	B	-
12	R	-
13	SB	-
14	B	-
15	Y	-
16	L	-
17	P	-
18	V	-

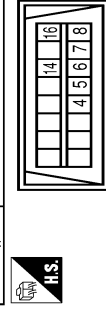
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TR08RW-CS16-7M4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	L	-
4	Y	-
6	P	-
10	R	-
11	W	-
12	B	-
13	R	-
14	SHIELD	-
34	BE	-
35	R	-
36	B	-
37	P	-
52	R	-
53	BR	-
54	V	-
55	BE	-
56	R	-
58	S	-
62	Y	-
63	Y	-
64	LG	-
65	L	-
66	R	-
67	W	-
68	SB	-
70	BR	-
71	LG	-
72	V	-
73	L	-
76	R	-
78	B	-
79	W	-
80	L	-
83	Y	-
84	LG	-
85	P	-

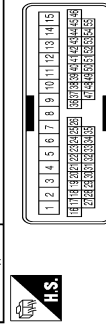
85	BE	-
90	SHIELD	-
91	G	-
92	B	-
95	BR	-
96	P	-
97	GR	-
98	W	-
99	V	-
100	O	-

Connector No.	IM4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name (Specification)
4	B	-
5	B	-
6	L	-
8	W	-
9	LG	-
10	Y	-

Connector No.	IM10
Connector Name	WIRE TO WIRE
Connector Type	TR40MW-CS15



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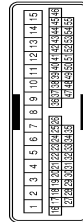
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP


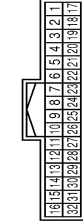
Terminal No.	Color Of Wire	Signal Name (Specification)
1	GR	-
2	G	-
3	SB	-
4	V	-
5	GR	-
6	GR	-
7	GR	-
8	GR	-
9	GR	-
10	GR	-
11	GR	-
12	GR	-
13	GR	-
14	GR	-
15	L	-
16	SHIELD	-
17	Y	-
18	G	-
19	L	-
20	R	-
21	G	-
22	G	-
23	Y	-
24	R	-
25	G	-
26	Y	-
27	B	-
28	BR	-
29	G	-
30	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH408W-CS15

Terminal No.	Color Of Wire	Signal Name (Specification)
13	B	-
14	P	-
15	P	-
16	SHIELD	-
17	R	-
18	B	-
19	W	-
20	W	-
21	BR	-
22	Y	-
23	W	-
24	BR	-
25	Y	-
26	W	-
27	B	-
28	V	-
29	B	-
30	B	-
31	P	-
32	GR	-
33	G	-
34	P	-
35	G	-
36	Y	-
37	G	-
38	Y	-
39	B	-
40	BR	-
41	G	-
42	L	-
43	V	-
44	V	-
45	LG	-
46	BR	-
47	GR	-
48	L	-
49	R	-
50	LG	-
51	LG	-
52	BR	-


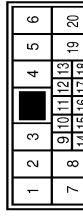
Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH327W-AH

Terminal No.	Color Of Wire	Signal Name (Specification)
1	GR	-
2	W	-
3	SB	-
4	V	-
5	GR	-
6	GR	-
7	R	-
8	G	-
9	LG	-
10	Y	-
11	GR	-
12	GR	-



Terminal No.	Color Of Wire	Signal Name (Specification)
26	R	-
27	SHIELD	-
28	L	-
29	L	-
30	LG	-
31	LG	-
32	W	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	NH1DMW-CS10

Terminal No.	Color Of Wire	Signal Name (Specification)
3	B	-
4	Y	-
5	L	-
6	P	-
7	BR	-
8	B	-
9	GR	-
10	GR	-
11	SHIELD	-
12	W	-
13	W	-
14	B	-

Connector No.	M68
Connector Name	RCM (BODY CONTROL MODULE)
Connector Type	TH407B-NH

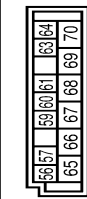
Terminal No.	Color Of Wire	Signal Name (Specification)
1	GR	COMB SW INPUT 5
2	GR	COMB SW INPUT 2
3	GR	COMB SW INPUT 2
4	BR	COMB SW INPUT 3
5	G	COMB SW INPUT 2
6	W	COMB SW INPUT 1
7	L	KEY CYL UNLOCK SW
8	R	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	W	-
11	GR	DOOR LK & UNLK SW UNLOCK
12	BR	DOOR LK & UNLK SW UNLOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	SB	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	Y	OPTICAL SENS PWR SPLY
17	Y	RECEIVER GND
18	V	MATS ANT AMP
19	P	SECURITY IND LAMP CONT
20	R	DONGLE LINK
21	SB	MATS ANT AMP
22	LG	THERMO AMP
23	Y	A/C SW
24	LG	BLOWER FANS SW
25	LG	HAZARD SW
26	BR	BR DOOR OPER SW
27	Y	HAZARD SW
28	LG	HAZARD SW
29	SB	HAZARD SW
30	L	BR DOOR OPER SW
31	GR	DR DOOR UNLK SENS
32	LG	COMB SW OUTPUT 5
33	V	COMB SW OUTPUT 4
34	V	COMB SW OUTPUT 3
35	R	COMB SW OUTPUT 1
36	P	COMB SW OUTPUT 1
37	G	DEFEST SW
38	SB	RECEIVER COMM
39	L	CAN H
40	P	CAN L

INTERIOR ROOM LAMP CONTROL SYSTEM

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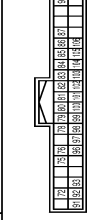
INTERIOR ROOM LAMP

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEADSPN-FH46-5A



Terminal No.	Color Of Wire	Signal Name (Specification)
56	P	INT ROOM LAMP PWR SPLY
57	P	BATT(FUSE)
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
64	R	REVERSE SW
65	V	ALL DOOR LOCK OUTPUT
66	SB	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (IGN)
69	P	PW PWR SPLY (BATT)
70	Y	BAT (F/L)

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FPV-AH



Terminal No.	Color Of Wire	Signal Name (Specification)
72	SB	A/C IND OUTPUT
75	LG	DR DOOR REC SW
76	LG	PUSH SW
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	BR	PASS DOOR ANT+
81	G	PASS DOOR ANT-

82	W	REAR BDR ANT+
83	B	REAR BDR ANT-
84	BR	RODM ANT +1
85	GR	RODM ANT -1
86	GR	RODM ANT 2
87	LG	RODM ANT 2 2
90	W	PUSH BTN IGN SW ALL PWR
91	V	ACEZ (ON/IND)
92	R	PUSH BTN IGN SW ALL GND
93	GR	L-KEY WARN BUZZER
96	BR	ACC-RELAY CONT
97	SB	STARTER RELAY CONT
98	P	IGN RELAY (PDM/E/R) CONT
99	R	IGN RELAY (F/B) CONT
100	P	PASS DOOR REC SW
101	Y	CLUTCH INTERLOCK SW (FOR M/T MODELS)
102	L	IGN SPV INOZ. (EXCEPT FOR M/T MODELS)
102	L	NEUTRAL SW (FOR M/T MODELS)
103	G	P/A POSITION (EXCEPT FOR M/T MODELS)
104	SB	FR DEFROST SW
105	V	CVT SHIFT SELECT PWR SPLY
106	Y	STOP LAMP SW 2
		BLWR RELAY CONT

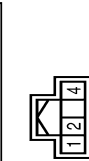


Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH88FPV-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	L	
4	V	
6	P	
10	R	
11	R	
12	LG	
13	V	
14	SHIELD	
34	LG	
35	SB	
36	B	
37	P	
52	R	
53	L	
54	SB	
55	L	
56	P	
58	LG	
59	Y	
62	Y	
63	W	
64	G	
65	GR	
66	Y	
67	V	
68	R	
70	V	
71	R	
72	GR	
73	G	
76	W	
78	LG	
79	V	
80	LG	
83	P	
84	G	
85	BR	

Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH64FPV-AH

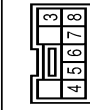


Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH64FPV-AH

Terminal No.	Color Of Wire	Signal Name (Specification)
1	G	POWER
2	SB	SIGNAL
4	V	GND

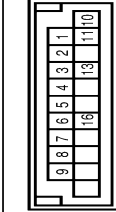
86	LG	
90	SHIELD	
91	W	
92	BR	
95	SB	
96	L	
97	GR	
98	R	
99	R	
100	LG	

Connector No.	M101
Connector Name	PUSH-BUTTON (IGNITION SWITCH)
Connector Type	TK68FBR



Terminal No.	Color Of Wire	Signal Name (Specification)
3	G	
4	B	
5	W	
6	R	
7	R	
8	LG	

Connector No.	M132
Connector Name	JOINT CONNECTOR-M02
Connector Type	NH20FL-LOC



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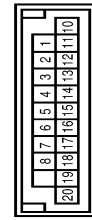
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

INTERIOR ROOM LAMP

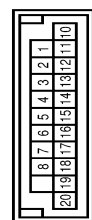
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	B	-
5	B	-
6	B	-
7	B	-
8	B	-
9	B	-
10	LG	-
11	LG	-
13	LG	-
16	LG	-

Connector No.	M136
Connector Name	JOINT CONNECTOR-M07
Connector Type	NH2DFL-DC



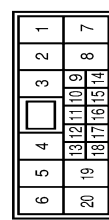
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	P	-
3	P	-
4	P	-
5	P	-
6	P	-
7	P	-
8	P	-
10	L	-
11	L	-
12	L	-
13	L	-
14	L	-
15	L	-
16	L	-
17	L	-
18	GR	-
19	GR	-
20	GR	-

Connector No.	M138
Connector Name	JOINT CONNECTOR-M03
Connector Type	NH2DFL-DC



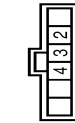
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	V	-
4	V	-
5	V	-
6	V	-
7	V	-
10	GR	-
11	GR	-
12	GR	-
13	GR	-
14	GR	-
15	GR	-
16	GR	-
18	P	-
19	P	-
20	P	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	NH10DFW-CS10



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	W	-
9	V	-
10	R	-
11	R	-
12	SHIELD	-
13	L	-
18	B	-

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	GA08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B	-
4	B	-

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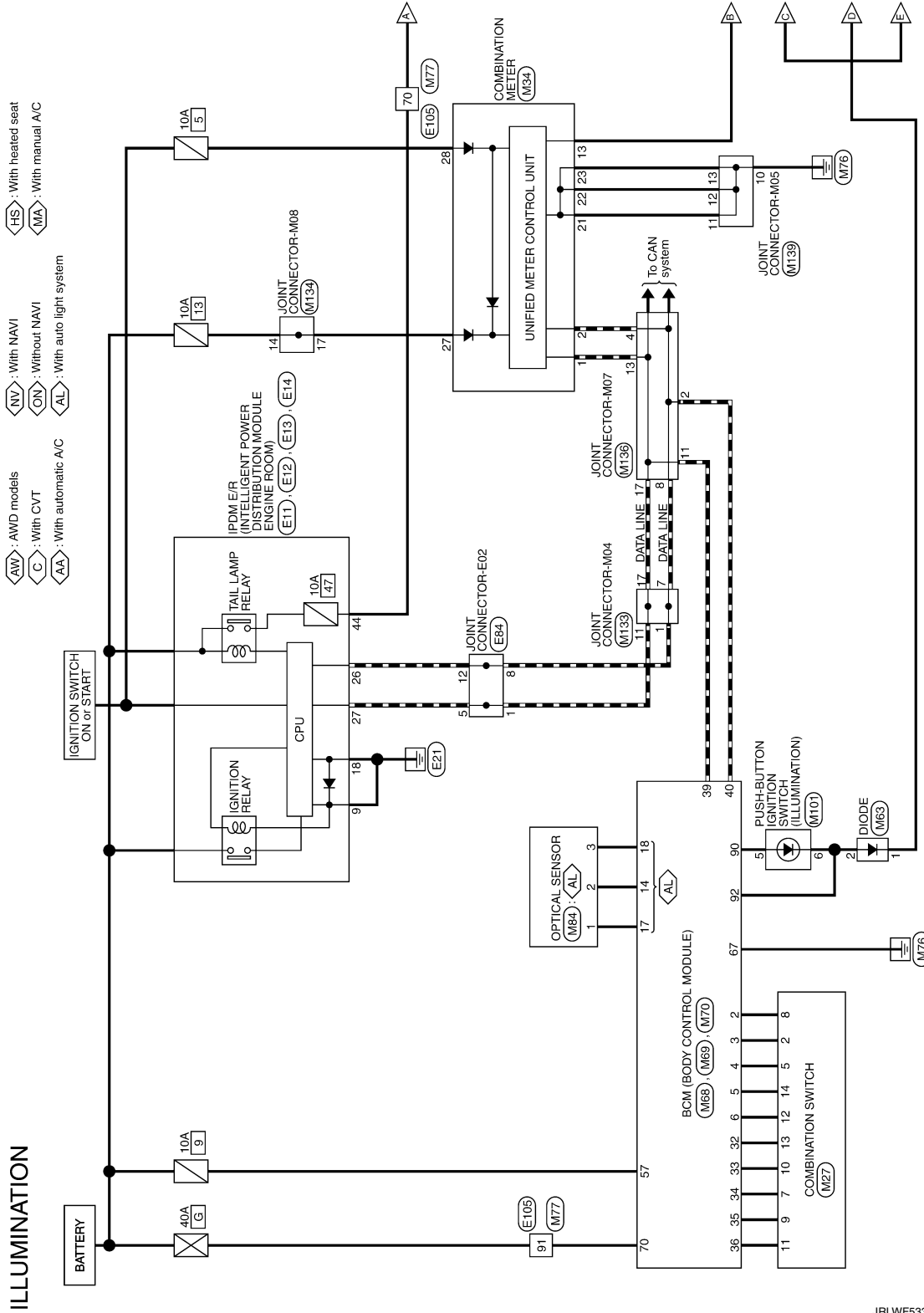
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Wiring Diagram

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*: This connector is not shown in "Harness Layout".

2015/08/18

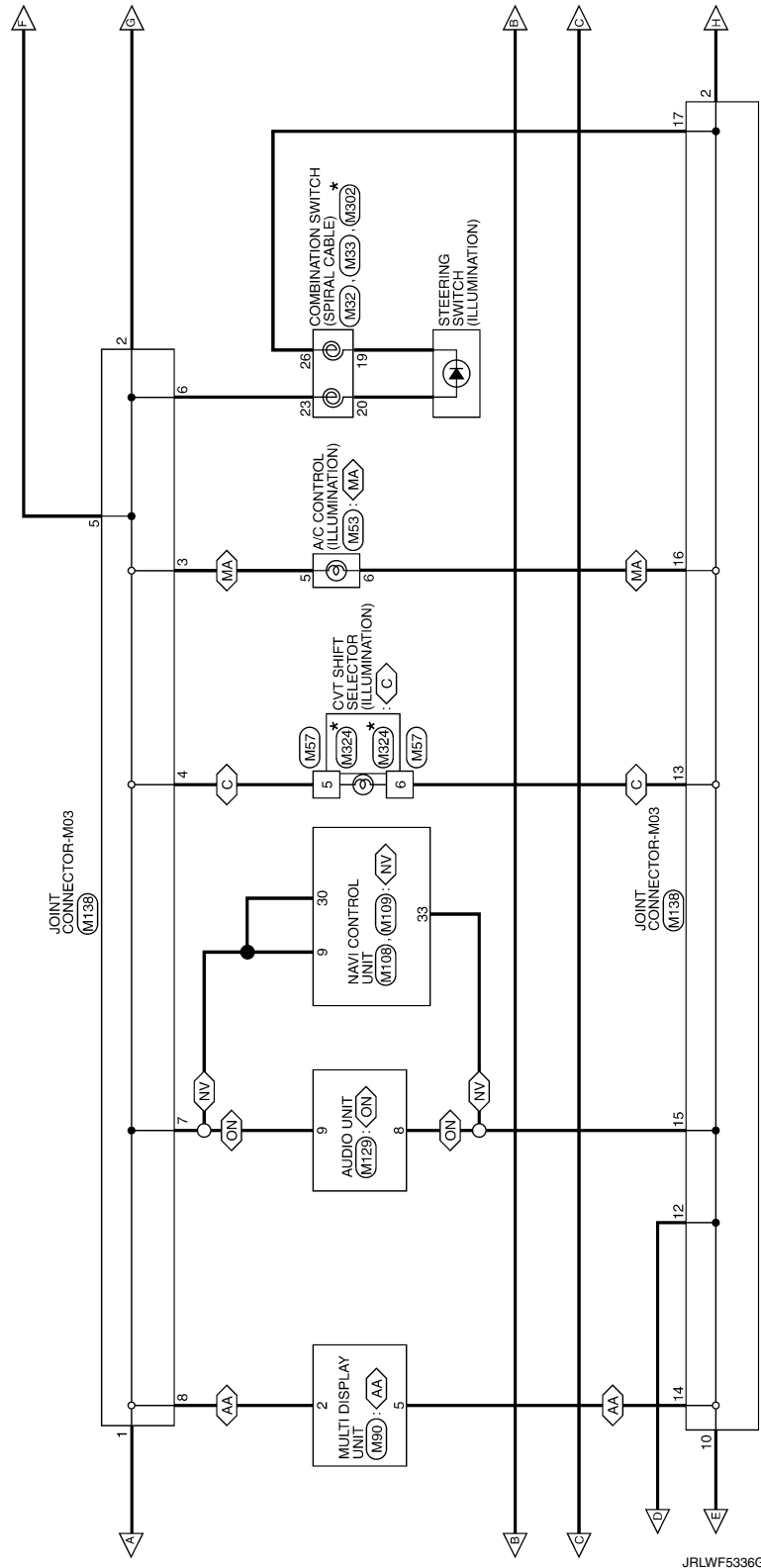
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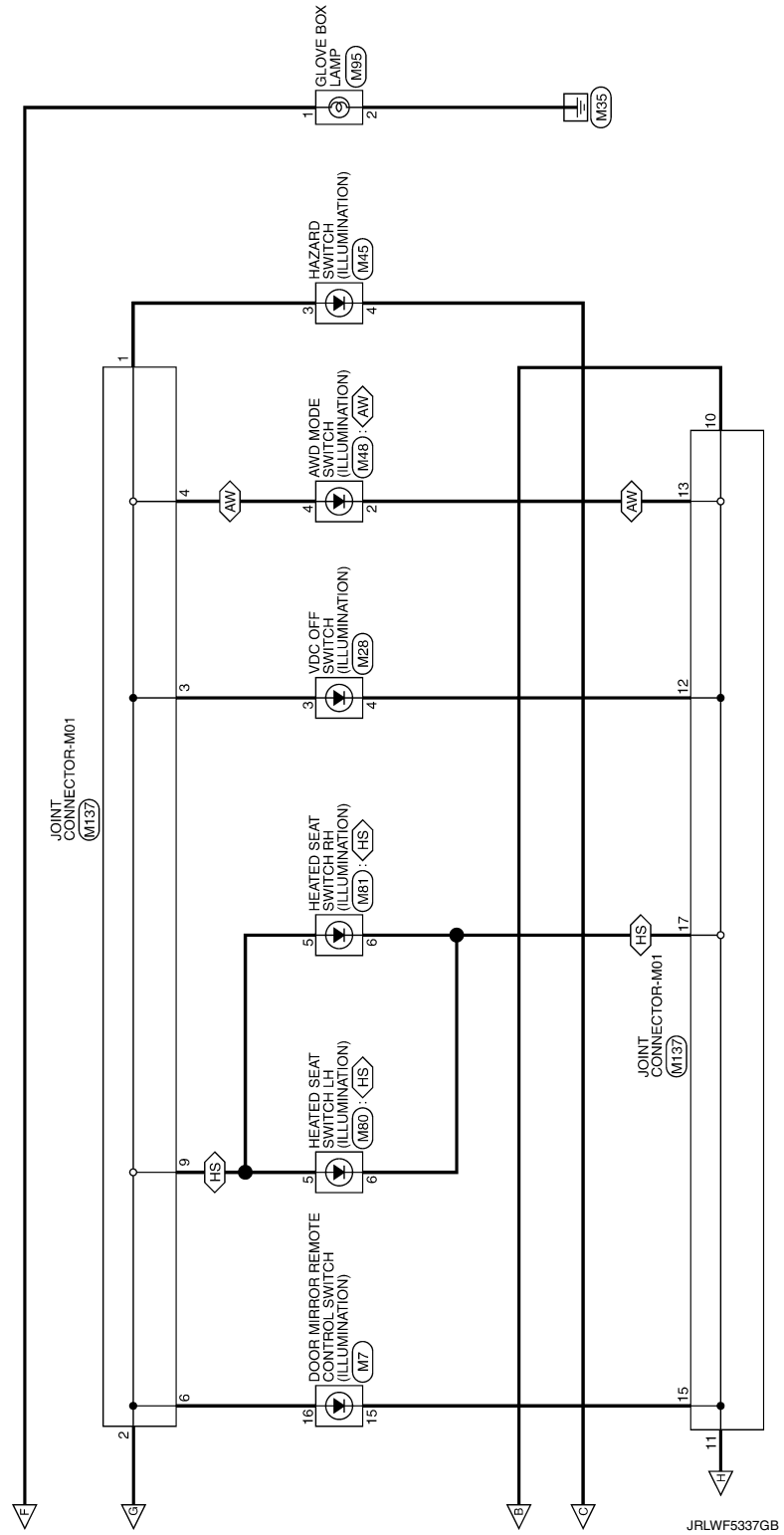
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
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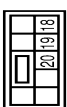
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Connector No. E11
 Connector Name FPM/LE INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
 Connector Type MS06B/C


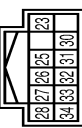
Terminal No.	Color Of Wire	Signal Name [Specification]
9	B/Y	-
10	L	-
14	R	-

Connector No. E12
 Connector Name FPM/LE INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
 Connector Type NS08F/B/C/S



Terminal No.	Color Of Wire	Signal Name [Specification]
18	GR	-
19	R	- [Without front fog lamp] - [With front fog lamp]
20	G	- [Without front fog lamp] - [With front fog lamp]
20	V	-

Connector No. E13
 Connector Name FPM/LE INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
 Connector Type TH12F/A/M



Terminal No.	Color Of Wire	Signal Name [Specification]
23	SB	-
25	BR	-
26	P	-
27	L	-
28	Y	-
30	V	-
31	Y	-
32	R	-
33	G	-
34	L	-

Connector No. E14
 Connector Name FPM/LE INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
 Connector Type NS22F/B/C/S



Terminal No.	Color Of Wire	Signal Name [Specification]
35	G	-
36	P	-
37	L	-
39	L	-
41	BR	-
42	Y	-
43	L	-
44	BR	-
45	W	-

Connector No. E15
 Connector Name WIRE TO WIRE
 Connector Type TH80MM/CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	P	-
8	P	-
9	P	-
10	P	-
11	P	-
12	P	-

Connector No. E16
 Connector Name JOINT CONNECTOR-6D2
 Connector Type A12F1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	P	-
8	P	-
9	P	-
10	P	-
11	P	-
12	P	-

Connector No. E17
 Connector Name WIRE TO WIRE
 Connector Type TH80MM/CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
10	P	-

Connector No. E18
 Connector Name JOINT CONNECTOR-6D2
 Connector Type A12F1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
10	P	-

Connector No. E19
 Connector Name WIRE TO WIRE
 Connector Type TH80MM/CS16-TM4

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
10	P	-

Connector No. E20
 Connector Name WIRE TO WIRE
 Connector Type TH80MM/CS16-TM4

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
10	P	-

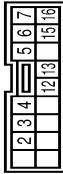
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ILLUMINATION

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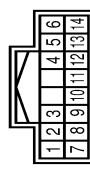
ILLUMINATION

Connector No.	M17
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	V	-
4	LG	-
5	G	-
6	Y	-
7	BR	-
12	B	-
13	L	-
15	GR	-
16	V	-

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	WASHER (RR)
2	GR	OUTPUT 4
3	R	WASHER (FR)
4	W	IGN
5	BR	OUTPUT 3
6	B	GND
7	V	OUTPUT 5
8	L	OUTPUT 3
9	R	INPUT 2
10	Y	INPUT 4

Terminal No.	11	P	INPUT 1
Terminal No.	12	W	OUTPUT 1
Terminal No.	13	LG	INPUT 5
Terminal No.	14	G	OUTPUT 2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	V	-
4	GR	-

Connector No.	M28
Connector Name	VDC OFF SWITCH
Connector Type	TH08FB-NH



Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FK-IV



Terminal No.	Color Of Wire	Signal Name [Specification]
24	G	-
25	P	-
26	GR	-
31	R	-
32	B	-
33	V	-
34	LG	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH4DFW-NH



15	W	MANUAL MODE SHIFT DOWN SIGNAL
17	G	WASHER LEVEL SWITCH SIGNAL
18	B	WASHER LEVEL SWITCH SIGNAL
19	GR	WASHER LEVEL SWITCH SIGNAL
20	GR	WASHER LEVEL SWITCH SIGNAL
21	B	WASHER LEVEL SWITCH SIGNAL
22	B	GROUND
23	B	GROUND
24	L	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
26	V	PADDLE SHIFTER DOWN SWITCH SIGNAL
27	LG	BATTERY POWERS SUPPLY
28	GR	IGNITION SIGNAL
29	V	PASSENGER SEAT BELT WARNING SIGNAL
31	P	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
36	Y	MANUAL MODE SIGNAL
37	G	NON-MANUAL MODE SIGNAL
38	P	ALTERNATOR SIGNAL

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	V	-
4	GR	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	G	PADDLE SHIFTER UP SWITCH SIGNAL
6	BR	FUEL LEVEL SENSOR SIGNAL
7	R	AIR BAG SIGNAL
8	P	-
9	W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G	BRAKE FLUID LEVEL SWITCH SIGNAL
13	GR	ILLUMINATION CONTROL SIGNAL
14	R	MANUAL MODE SHIFT UP SIGNAL
15	L	ACC POWER SUPPLY

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ILLUMINATION

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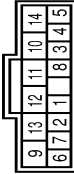
ILLUMINATION

Connector No.	M54
Connector Name	AWD MODE SWITCH
Connector Type	T085PW-1V



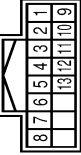
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	V	-
5	G	-
6	R	-

Connector No.	M53
Connector Name	A/C CONTROL
Connector Type	F5A59PB-SH46



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	W	-
4	R	-
5	V	-
6	GR	-
7	G	-
8	B	-
9	B	-
10	W	-
11	R	-
12	Y	-
13	L	-
14	LG	-

Connector No.	M57
Connector Name	CVT SHIFT SELECTOR
Connector Type	T1156PW-4NH



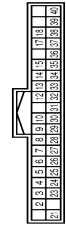
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-
3	BR	-
4	B	-
5	V	-
6	GR	-
7	Y	-
8	W	-
9	R	-
10	B	-
11	G	-
12	SB	-
13	G	-

Connector No.	M63
Connector Name	DIODE
Connector Type	24335_C9900



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	R	-

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	T1448PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	COMB. SW INP/UT 5
3	GR	COMB. SW INP/UT 4
4	BR	COMB. SW INP/UT 3
5	G	COMB. SW INP/UT 2
6	W	COMB. SW INP/UT 1
7	L	KEY CYL UNLOCK SW
8	R	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	W	-
12	GR	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	SB	OPTICAL SENS
15	W	REAR WINDOW DEF SW
17	V	OPTICAL SENS PWR SPLY
18	V	SECURE SW
19	P	SECURE SW
22	R	SECURITY ID NAME CONT
24	SB	DOUBLE LNK
25	LG	MASTS ANT AMP
26	BR	THERMO AMP
27	Y	A/C SW
28	LG	BLOWER FAN SW
29	SB	HAZARD SW
30	L	BK DOOR OPENER SW
31	GR	DR DOOR UNLK SENS
32	LG	COMB SW OUTPUT 5
33	Y	COMB SW OUTPUT 4
34	V	COMB SW OUTPUT 3
35	R	COMB SW OUTPUT 2
36	P	COMB SW OUTPUT 1
37	G	DETENT SW
38	SB	RECEIVER COMM
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	F5A59PW-1H46-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BATT(L)USE
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
64	R	REVERSE SW
65	V	ALL DOOR LOCK OUTPUT
66	SB	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (IGN)
69	P	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	T1448PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
71	SB	A/C INK OUTPUT
72	LG	DR DOOR REQ SW
75	LG	PUSH SW
76	LG	DRIVER DOOR ANTI-
78	P	DRIVER DOOR ANTI-
79	V	DRIVER DOOR ANTI-
80	BR	PASS DOOR ANTI-
81	G	PASS DOOR ANTI-

ILLUMINATION

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ILLUMINATION

82	W	REAR BURN IN ANT-
83	B	REAR BURN IN ANT-
84	BR	REAR BURN IN ANT-
85	YR	REAR BURN IN ANT-
86	Y	REAR BURN IN ANT-
87	LG	BOOKS ANT2-
88	LG	BOOKS ANT2-
89	W	PUSH BTN IGN SW ILL PWR
91	V	ACC/IGN I/O
92	R	PUSH BTN IGN SW ILL GND
93	GR	LKEY WARN BUZZER
96	BR	ACC RELAY CONT
97	SB	STARTER RELAY CONT
98	P	IGN RELAY (IPDM E/R) CONT
99	R	IGN RELAY (FBI) CONT
100	P	PASS DOOR REQ SW
101	Y	CLUTCH INTERLOCK SW [FOR M/T MODELS]
101	Y	IGN SW ILL NO2. [EXCEPT FOR M/T MODELS]
102	L	NEUTRAL SW [FOR M/T MODELS]
102	L	P/N POSITION [EXCEPT FOR M/T MODELS]
103	G	FR DEFROST SW
104	SB	CVT SHIFT SELECT PWR SPLY
105	V	STOP LAMP SW 2
106	Y	BLWR RELAY CONT

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	V	-
6	P	-
10	R	-
11	R	-
12	LG	-
13	V	-
14	SHIELD	-
34	LG	-
35	SB	-
36	B	-

37	P	-
52	R	-
53	SB	-
54	SB	-
55	LG	-
56	LG	-
59	G	-
62	Y	-
63	W	-
64	G	-
65	GR	-
66	V	-
67	V	-
68	R	-
70	V	-
71	R	-
72	GR	-
73	G	-
76	W	-
78	LG	-
79	V	-
80	LG	-
83	P	-
84	G	-
85	BR	-
86	LG	-
90	SHIELD	-
91	Y	-
92	BR	-
93	L	-
97	GR	-
98	GR	-
99	R	-
100	LG	-

Connector No.	M80
Connector Name	HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	P	-
4	B	-
5	V	-
6	GR	-

Connector No.	M81
Connector Name	HEATED SEAT SWITCH RH
Connector Type	NS06FW-CS



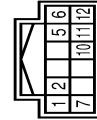
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	R	-
4	B	-
5	V	-
6	GR	-

Connector No.	M84
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	V	-

Connector No.	M90
Connector Name	MULTI DISPLAY UNIT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	V	ILLUMINATION SIGNAL
5	GR	ILLUMINATION CONTROL SIGNAL
6	L	CAN-H
7	LG	IGNITION SIGNAL
10	B	GROUND
11	B	GROUND
12	P	CAN-L

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ILLUMINATION

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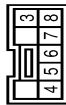
ILLUMINATION

Connector No.	MPS
Connector Name	GLOVE BOX LAMP
Connector Type	A0247W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	T1008FB



Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	-
4	B	-
5	W	-
6	R	-
7	V	-
8	LG	-

Connector No.	M108
Connector Name	NAVI CONTROL UNIT
Connector Type	NI138FW-CS2



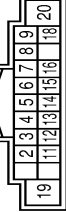
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	WOOFER AMP. ON SIGNAL
2	W	SOUND SIGNAL FRONT SPEAKER LH +
3	GR	SOUND SIGNAL FRONT SPEAKER LH -
4	LG	SOUND SIGNAL REAR SPEAKER LH +
5	V	SOUND SIGNAL REAR SPEAKER LH -
6	G	STEERING SWITCH SIGNAL A
7	L	ACC POWER SUPPLY CAN-H
8	L	ILLUMINATION CONTROL SIGNAL SHIELD
9	V	SOUND SIGNAL FRONT SPEAKER RH +
10	SHIELD	SOUND SIGNAL FRONT SPEAKER RH -
11	G	SOUND SIGNAL REAR SPEAKER RH +
12	R	SOUND SIGNAL REAR SPEAKER RH -
13	BR	STEERING SWITCH SIGNAL B
14	V	STEERING SWITCH SIGNAL GROUND
15	V	VEHICLE SPEED SIGNAL B
16	R	CON
17	P	VEHICLE SPEED SIGNAL (8-PULSE)
18	Y	BATTERY POWER SUPPLY
19	BR	GROUND
20	B	GROUND

Connector No.	M109
Connector Name	NAVI CONTROL UNIT
Connector Type	TH1247W-VH



Terminal No.	Color Of Wire	Signal Name [Specification]
21	G	ALX-AUDIO SIGNAL RH
22	Y	ALX-AUDIO SIGNAL GROUND
23	L	ALX-AUDIO SIGNAL LH
24	G	REVERSE SIGNAL
25	G	SOUND SIGNAL WOOFER +
26	BR	SOUND SIGNAL WOOFER -
29	Y	ILLUMINATION CONTROL SIGNAL
30	V	ILLUMINATION CONTROL SIGNAL GROUND
33	GR	MICROPHONE SIGNAL
34	W	MICROPHONE VCC
35	B	SHIELD
36	SHIELD	SHIELD
37	SHIELD	SHIELD
40	LG	IGNITION SIGNAL
41	B	CAMERA IMAGE SIGNAL
42	SHIELD	SHIELD

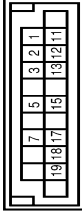
Connector No.	M129
Connector Name	AUDIO UNIT
Connector Type	NI118FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH +
3	GR	SOUND SIGNAL FRONT SPEAKER LH -
4	LG	SOUND SIGNAL REAR SPEAKER LH +
5	V	SOUND SIGNAL REAR SPEAKER LH -
6	G	STEERING SWITCH SIGNAL A

7	L	ACC POWER SUPPLY
8	GR	ILLUMINATION CONTROL SIGNAL GROUND
9	V	ILLUMINATION CONTROL SIGNAL
11	G	SOUND SIGNAL FRONT SPEAKER RH +
12	R	SOUND SIGNAL FRONT SPEAKER RH -
13	BR	SOUND SIGNAL REAR SPEAKER RH +
14	Y	SOUND SIGNAL REAR SPEAKER RH -
15	V	STEERING SWITCH SIGNAL GROUND
16	R	STEERING SWITCH SIGNAL B
18	V	VEHICLE SPEED SIGNAL (8-PULSE)
19	BR	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M133
Connector Name	JOINT CONNECTOR-M04
Connector Type	NI208F-LDC



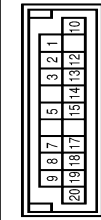
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	P	-
3	P	-
5	P	-
7	P	-
11	L	-
12	L	-
13	L	-
15	L	-
17	L	-
18	W	-
19	W	-

ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Connector No.	M134
Connector Name	JOINT CONNECTOR-M08
Connector Type	NH2DFL-DC

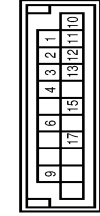


Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LG	-
3	LG	-
5	LG	-
7	LG	-
8	LG	-
9	LG	-
10	Y	-
12	Y	-
13	Y	-
14	Y	-
15	Y	-
17	LG	-
18	R	-
19	R	-
20	R	-



Terminal No.	Color Of Wire	Signal Name [Specification]
5	P	-
6	P	-
7	P	-
8	P	-
10	L	-
11	L	-
12	L	-
13	L	-
14	L	-
15	L	-
16	L	-
17	L	-
18	GR	-
19	GR	-
20	GR	-

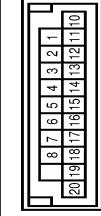
Connector No.	M137
Connector Name	JOINT CONNECTOR-M01
Connector Type	NH2DFL-DC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	V	-
4	V	-
6	V	-
9	V	-
10	GR	-
11	GR	-
12	GR	-
13	GR	-
15	GR	-
17	GR	-



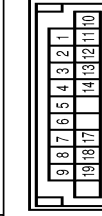
Connector No.	M138
Connector Name	JOINT CONNECTOR-M03
Connector Type	NH2DFL-DC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	V	-
4	V	-
5	V	-
6	V	-
7	V	-
8	V	-
10	GR	-
11	GR	-
12	GR	-
13	GR	-
14	GR	-
15	GR	-
16	GR	-
17	GR	-
18	P	-
19	P	-
20	P	-



Connector No.	M139
Connector Name	JOINT CONNECTOR-M05
Connector Type	NH2DFW-DC



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
4	W	-
5	GR	-
6	GR	-
7	GR	-
8	G	-
9	G	-
10	B	-
11	B	-
12	B	-
13	B	-
14	B	-
17	R	-
18	R	-
19	R	-

Connector No.	M302
Connector Name	COMBINATION SWITCH (SPIRAL LABEL)
Connector Type	TK08FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
13	R	-
14	W	-
15	L	-
16	B	-
17	BR	-
18	G	-
19	P	-
20	Y	-

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ILLUMINATION

< WIRING DIAGRAM >

ILLUMINATION

Connector No.	M324
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH168RM-ANI

Terminal No.	Color Of Wire	Signal Name (Specification)
1	Y	-
2	Y	-
3	W	-
4	P	-
5	G	-
6	G	-
7	BR	-
8	G	-
9	GR	-
10	Y	-
11	U/W	-
12	O	-
13	LG	-

JRLWF5344GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

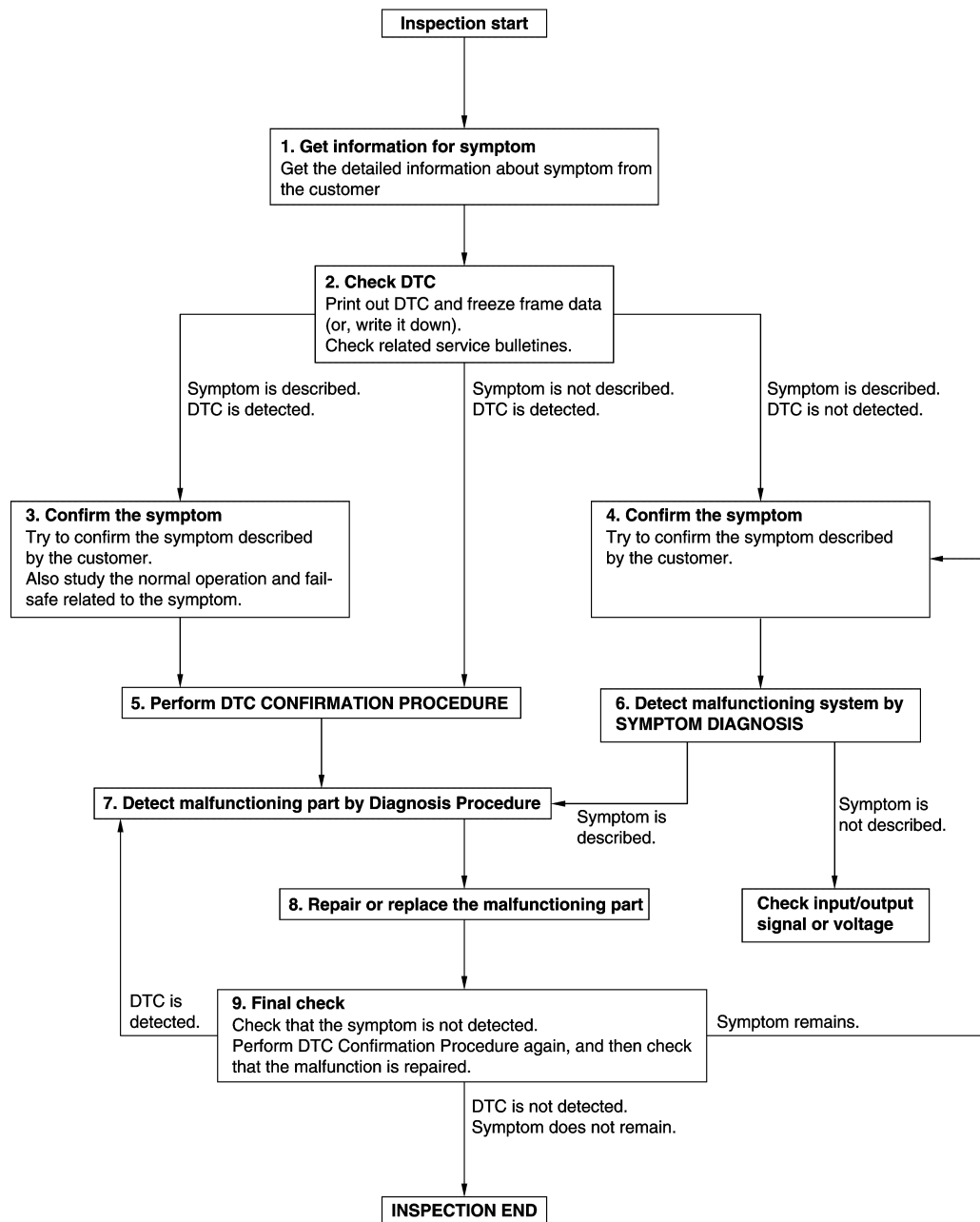
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012197009

OVERALL SEQUENCE



DETAILED FLOW

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-45. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-45. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000012197010

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

Component Function Check

INFOID:0000000012197011

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

Ⓟ CONSULT ACTIVE TEST

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

Off : Interior room lamp OFF

On : Interior room lamp ON

Does each interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.

NO >> Refer to [INL-38, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012197012

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

Ⓟ CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - Map lamp
 - Luggage room lamp
3. Turn ignition switch ON.
4. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
5. With operating the test item, check voltage between BCM harness connector and ground.

BCM		(-)	Test item	Voltage (Approx.)	
(+) Connector Terminal					
M69	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the BCM connector.
3. 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	
M69	56	Map lamp	R4	4	Existed
		Luggage room lamp	B11	1	

Is the inspection result normal?

YES >> Check for internal short circuit of each interior room lamp.

NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M69	56		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-94. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000012197013

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

NOTE:

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

Component Function Check

INFOID:000000012197014

NOTE:

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

- Interior room lamp power supply
- Map lamp bulb

1. CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

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

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-40. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012197015

1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal		INT LAMP	On	Existed
M69	63			Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.

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

NO- >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-94. "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M69	63	R4	2	Existed

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace map lamp. Refer to [INL-46, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M69	63		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-94, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:000000012197016

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

Diagnosis Procedure

INFOID:000000012197017

NOTE:

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

- Interior room lamp power supply
- Luggage room lamp bulb

1. CHECK LUGGAGE ROOM LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal		Back door	Open	Existed
B10	49			Closed	Not existed

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-94. "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	
B10	49	B11	2	Existed

Is the inspection result normal?

YES >> Replace luggage room lamp.

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.

BCM		Ground	Continuity
Connector	Terminal		
B10	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-94. "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:000000012197018

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

Component Function Check

INFOID:000000012197019

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT ACTIVE TEST

1. Turn the ignition switch ON.
2. Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
3. With 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-43, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012197020

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Select ENGINE SW ILLUMI of BCM (INTELLIGENT KEY) active test item.
3. With operating the test item, check voltage between BCM harness connector and ground.

(+)		(-)	Condition	Voltage	
BCM					
Connector	Terminal				
M70	90	Ground	ENGINE SW ILLUMI	On	12 V
				Off	0 V

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace BCM. Refer to [BCS-94, "Removal and Installation"](#).

2. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND

CONSULT ACTIVE TEST

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

BCM		Ground	Test item		Continuity
Connector	Terminal				
M70	92	Ground	ENGINE SW ILLUMI	On	Existed
				Off	Not existed

Is the inspection result normal?

- YES >> GO TO 3.
NO-1 >> Continuity exists and remains unchanged: GO TO 4.
NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to [BCS-94, "Removal and Installation"](#).

3. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and push-button ignition switch connector.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM harness connector and push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M70	90	M101	5	Existed

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M70	92	M101	6	Existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION SHORT CIRCUIT

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M70	92		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-94, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000012197021

NOTE:

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 the following lamps do not turn ON. • Map lamp • Luggage room lamp	• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-38 .
• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM	Door switch circuit Refer to DLK-77 . Interior room lamp control circuit Refer to INL-40 .
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to DLK-77 .
• Luggage room lamp does not turn ON even though the back door is open. • Luggage room lamp does not turn OFF even though the back door is closed.	• Harness between BCM and back door switch • Harness between BCM and luggage room lamp • BCM	Back door switch circuit Refer to DLK-77 . Luggage room lamp circuit Refer to INL-42 .
Push-button ignition switch illumination does not illuminate.	• Harness between BCM and push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-43 .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-94 .

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MAP LAMP

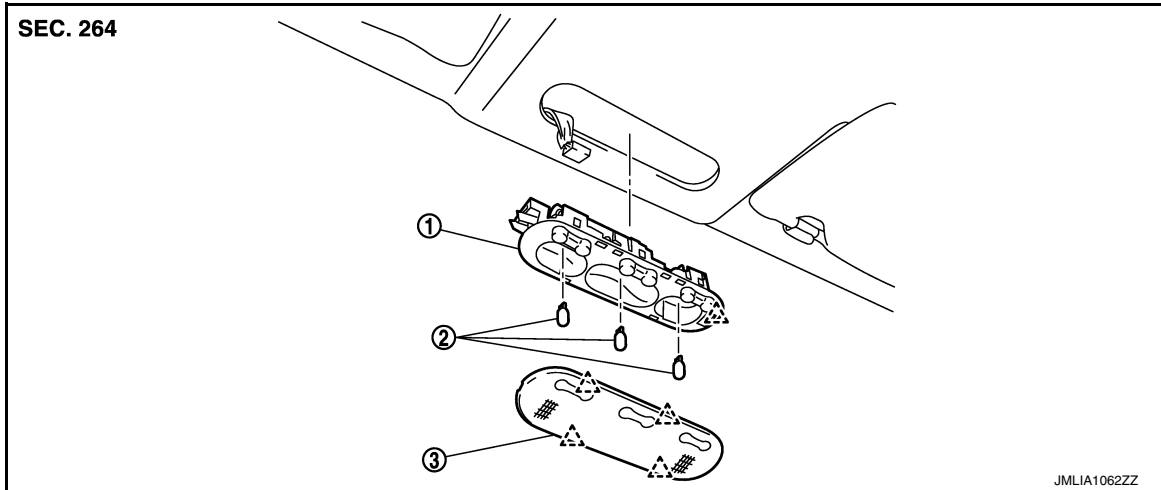
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View


INFOID:000000012197022



1. Bulb housing

2. Bulb

3. Lens

 : Pawl

Removal and Installation

INFOID:000000012197023

REMOVAL


CAUTION:

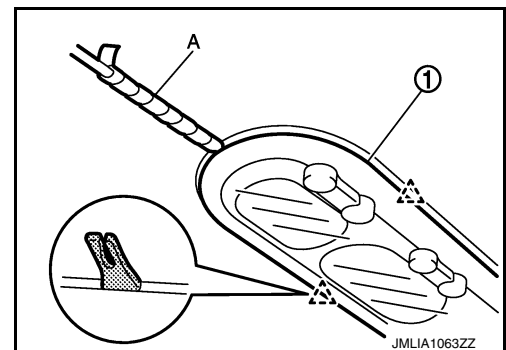
Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.

1. Disengage lens fixing pawls using a remover tool (A), and then remove lens (1).

CAUTION:

- Use a remover tool wrapped in tape.
- Insert a remover tool into the gap between bulb housing and lens.


 : Pawl

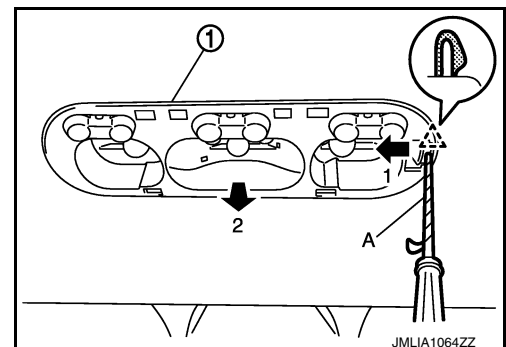


2. Disengage bulb housing (1) fixing pawl using a remover tool (A) according to numerical order 1→2 indicated by the arrows as shown in the figure.

CAUTION:

Use a remover tool wrapped in tape.

 : Pawl



3. Disconnect map lamp harness connector, and then remove bulb housing.

MAP LAMP

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000012197024

CAUTION:


- Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.
- The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

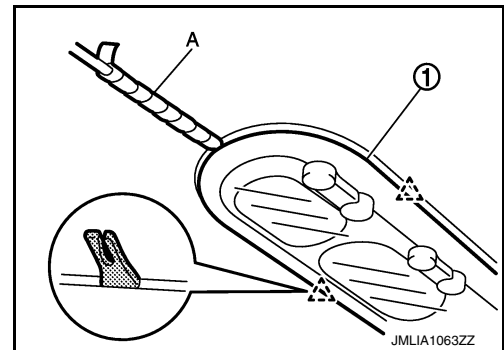
MAP LAMP BULB

1. Disengage lens fixing pawls using a remover tool (A), and then remove lens (1).

CAUTION:

- Use a remover tool wrapped in tape.
- Insert a remover tool into the gap between bulb housing and lens.

 : Pawl



2. Remove bulb.

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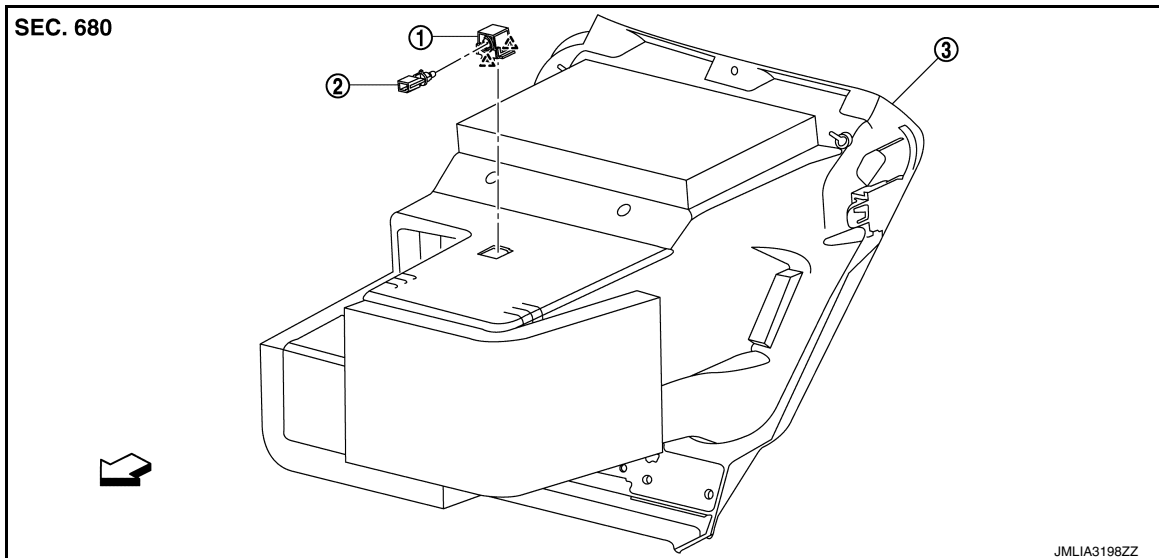
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View


INFOID:000000012197025



1. Bulb housing

2. Bulb & socket assembly

3. Glove box assembly

 : Pawl

 : Vehicle front

Removal and Installation

INFOID:000000012197026

Replacement

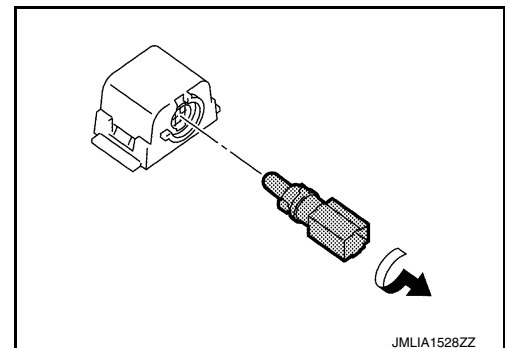
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CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.
- The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

GLOVE BOX LAMP BULB

1. Remove glove box assembly. Refer to [IP-13. "Removal and Installation"](#).
2. Rotate the bulb & socket assembly counterclockwise and unlock it, and then remove bulb & socket assembly.



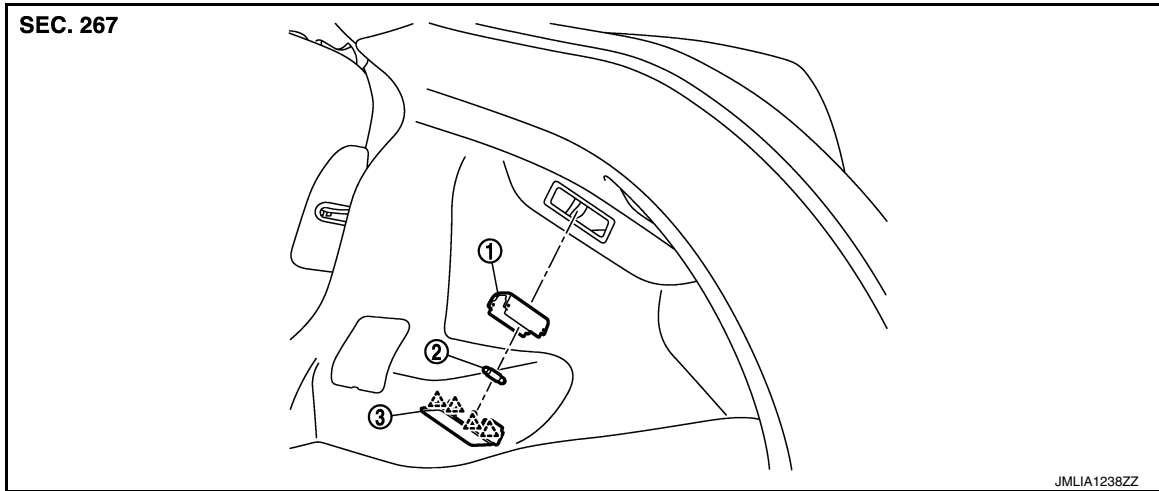
LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View


INFOID:000000012197028



1. Shade

2. Bulb

3. Lens

 : Pawl

Removal and Installation

INFOID:000000012197029

REMOVAL


CAUTION:

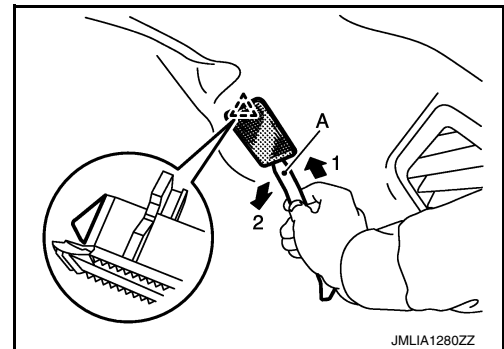
- Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.
- When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

1. Disengage luggage room lamp fixing pawl using a remover tool (A) according to numerical order 1→2 indicated by the arrows as shown in the figure.

CAUTION:

Insert a remover tool into the gap between luggage room lamp and luggage side lower finisher RH.

 : Pawl



2. Disconnect luggage room lamp harness connector, and then remove luggage room lamp.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000012197030

CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse when performing the operation for preventing electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it for preventing damage to the bulb.
- The surface of the bulb is very hot just after the lamp is turned OFF. Never touch the glass surface of the bulb with bare hands for preventing burns.

LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >


- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (due to dirt or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

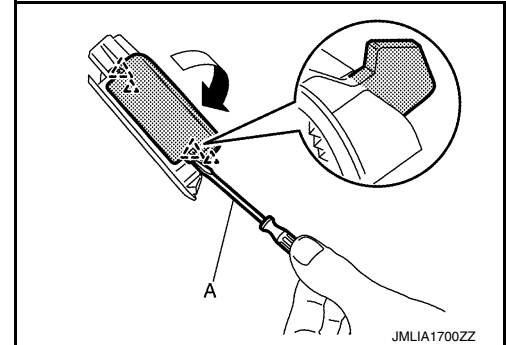
LUGGAGE ROOM LAMP BULB

1. Remove luggage room lamp. Refer to [INL-49. "Removal and Installation"](#).
2. Disengage shade fixing pawls using a remover tool (A) according to the direction indicated by the arrow as shown in the figure.

CAUTION:

Use remover tool wrapped in tape.

 : Pawl



3. Remove shade, and then remove bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

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Bulb Specifications

INFOID:0000000012197031

Item	Type	Wattage (W)
Push-button ignition switch illumination*	LED	—
Map lamp	W5W	5
Glove box lamp	—	1.4
Luggage room lamp	—	5

*: With Intelligent Key

A
B
C
D
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INL
M
N
O
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