

SECTION INL

INTERIOR LIGHTING SYSTEM

CONTENTS

SHORT WHEEL BASE MODELS	
PRECAUTION	5
PRECAUTIONS	5
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	5
Precaution for Procedure without Cowl Top Cover.....	5
Precautions for Removing Battery Terminal	5
SYSTEM DESCRIPTION	7
COMPONENT PARTS	7
INTERIOR LIGHTING SYSTEM	7
INTERIOR LIGHTING SYSTEM : Component Parts Location	7
INTERIOR LIGHTING SYSTEM : Component Description	7
SYSTEM	9
INTERIOR ROOM LAMP CONTROL SYSTEM	9
INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram	9
INTERIOR ROOM LAMP CONTROL SYSTEM : System Description	9
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM	11
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram	12
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description	12
ILLUMINATION CONTROL SYSTEM	13
ILLUMINATION CONTROL SYSTEM : System Diagram	13
ILLUMINATION CONTROL SYSTEM : System Description	13
AUTO LIGHT ADJUSTMENT SYSTEM	13
AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram	14
AUTO LIGHT ADJUSTMENT SYSTEM : System Description	14
DIAGNOSIS SYSTEM (BCM)	15
COMMON ITEM	15
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	15
INT LAMP	16
INT LAMP : CONSULT Function (BCM - INT LAMP) (Short Wheel Base Models)	17
BATTERY SAVER	18
BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) (Short Wheel Base Models)	18
ECU DIAGNOSIS INFORMATION	21
BCM	21
List of ECU Reference	21
WIRING DIAGRAM	22
INTERIOR ROOM LAMP CONTROL SYSTEM	22
Wiring Diagram	22
ILLUMINATION	39
Wiring Diagram	39
BASIC INSPECTION	59
DIAGNOSIS AND REPAIR WORK FLOW	59
Work Flow	59
DTC/CIRCUIT DIAGNOSIS	62
INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT	62
Description	62

Component Function Check	62	PASSENGER SIDE : Exploded View	79
Diagnosis Procedure	62	PASSENGER SIDE : Removal and Installation	79
INTERIOR ROOM LAMP CONTROL CIRCUIT	64	PASSENGER SIDE : Replacement	80
Description	64	STEP LAMP	81
Component Function Check	64	Exploded View	81
Diagnosis Procedure	64	Removal and Installation	81
TRUNK ROOM LAMP CIRCUIT	66	Replacement	81
Description	66	PERSONAL LAMP	82
Diagnosis Procedure	66	Exploded View	82
STEP LAMP CIRCUIT	67	Removal and Installation	82
Description	67	Replacement	83
Component Function Check	67	OUTSIDE HANDLE LAMP	84
Diagnosis Procedure	67	Exploded View	84
OUTSIDE HANDLE LAMP CIRCUIT	69	TRUNK ROOM LAMP	85
Description	69	Exploded View	85
Diagnosis Procedure	69	Removal and Installation	85
PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT	70	Replacement	86
Description	70	SERVICE DATA AND SPECIFICATIONS (SDS)	87
Component Function Check	70	SERVICE DATA AND SPECIFICATIONS (SDS)	87
Diagnosis Procedure	70	Bulb specifications	87
SYMPTOM DIAGNOSIS	72	LONG WHEEL BASE MODELS	
INTERIOR LIGHTING SYSTEM SYMPTOMS	72	PRECAUTION	88
Symptom Table	72	PRECAUTIONS	88
REMOVAL AND INSTALLATION	73	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	88
MAP LAMP	73	Precaution for Procedure without Cowl Top Cover... ..	88
Exploded View	73	Precautions for Removing Battery Terminal	88
Removal and Installation	73	PREPARATION	90
Replacement	74	PREPARATION	90
VANITY MIRROR LAMP	75	Commercial Service Tool	90
Exploded View	75	SYSTEM DESCRIPTION	91
Replacement	75	COMPONENT PARTS	91
CIGARETTE LIGHTER ILLUMINATION	76	INTERIOR LIGHTING SYSTEM	91
Exploded View	76	INTERIOR LIGHTING SYSTEM : Component	
Removal and Installation	76	Parts Location	91
Replacement	76	INTERIOR LIGHTING SYSTEM : Component Description	91
GLOVE BOX LAMP	77	SYSTEM	93
Exploded View	77	INTERIOR ROOM LAMP CONTROL SYSTEM	93
Removal and Installation	77	INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram	93
Replacement	77	INTERIOR ROOM LAMP CONTROL SYSTEM : System Description	93
FOOT LAMP	78		
DRIVER SIDE	78		
DRIVER SIDE : Exploded View	78		
DRIVER SIDE : Removal and Installation	78		
DRIVER SIDE : Replacement	78		
PASSENGER SIDE	79		

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM	95	Component Function Check	148	
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram	96	Diagnosis Procedure	148	A
INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description	96	TRUNK ROOM LAMP CIRCUIT	150	
ILLUMINATION CONTROL SYSTEM	97	Description	150	B
ILLUMINATION CONTROL SYSTEM : System Diagram	97	Diagnosis Procedure	150	
ILLUMINATION CONTROL SYSTEM : System Description	97	STEP LAMP CIRCUIT	151	
AUTO LIGHT ADJUSTMENT SYSTEM	97	Description	151	C
AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram	98	Component Function Check	151	
AUTO LIGHT ADJUSTMENT SYSTEM : System Description	98	Diagnosis Procedure	151	
DIAGNOSIS SYSTEM (BCM)	99	OUTSIDE HANDLE LAMP CIRCUIT	153	D
COMMON ITEM	99	Description	153	
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	99	Diagnosis Procedure	153	E
INT LAMP	100	PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT	154	
INT LAMP : CONSULT Function (BCM - INT LAMP) (Long Wheel Base Models)	101	Description	154	F
BATTERY SAVER	102	Component Function Check	154	
BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) (Long Wheel Base Models) ..	102	Diagnosis Procedure	154	
ECU DIAGNOSIS INFORMATION	105	SYMPTOM DIAGNOSIS	156	G
BCM	105	INTERIOR LIGHTING SYSTEM SYMPTOMS ..	156	
List of ECU Reference	105	Symptom Table	156	H
WIRING DIAGRAM	106	REMOVAL AND INSTALLATION	157	
INTERIOR ROOM LAMP CONTROL SYSTEM ..	106	MAP LAMP	157	I
Wiring Diagram	106	Exploded View	157	
ILLUMINATION	123	Removal and Installation	157	J
Wiring Diagram	123	Replacement	158	
BASIC INSPECTION	143	VANITY MIRROR LAMP	159	K
DIAGNOSIS AND REPAIR WORK FLOW	143	Exploded View	159	
Work Flow	143	Replacement	159	
DTC/CIRCUIT DIAGNOSIS	146	CIGARETTE LIGHTER ILLUMINATION	160	
INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT	146	Exploded View	160	INL
Description	146	Removal and Installation	160	
Component Function Check	146	Replacement	160	
Diagnosis Procedure	146	REAR DOOR ASHTRAY ILLUMINATION	161	M
INTERIOR ROOM LAMP CONTROL CIRCUIT ..	148	Exploded View	161	
Description	148	Removal and Installation	161	N
		Replacement	161	
		GLOVE BOX LAMP	162	
		Exploded View	162	O
		Removal and Installation	162	
		Replacement	162	
		FOOT LAMP	163	P
		DRIVER SIDE	163	
		DRIVER SIDE : Exploded View	163	
		DRIVER SIDE : Removal and Installation	163	
		DRIVER SIDE : Replacement	163	
		PASSENGER SIDE	164	
		PASSENGER SIDE : Exploded View	164	

PASSENGER SIDE : Removal and Installation ...	164	Exploded View	169
PASSENGER SIDE : Replacement	165		
STEP LAMP	166	TRUNK ROOM LAMP	170
Exploded View	166	Exploded View	170
Removal and Installation	166	Removal and Installation	170
Replacement	166	Replacement	171
REAR SPOT LAMP	167	SERVICE DATA AND SPECIFICATIONS	
Exploded View	167	(SDS)	172
Removal and Installation	167	SERVICE DATA AND SPECIFICATIONS	
Replacement	168	(SDS)	172
OUTSIDE HANDLE LAMP	169	Bulb Specifications	172

PRECAUTION

PRECAUTIONS

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

INFOID:000000012356048

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:

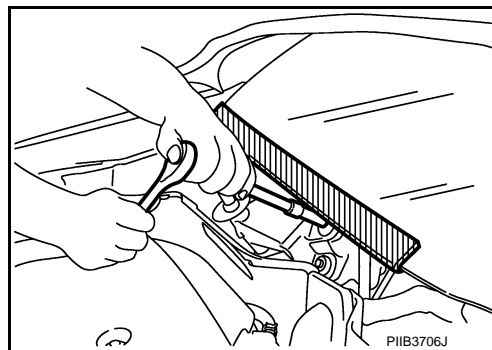
Always observe the following items for preventing accidental activation.

- 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:000000013011730

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 Removing Battery Terminal

INFOID:000000013011730

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.

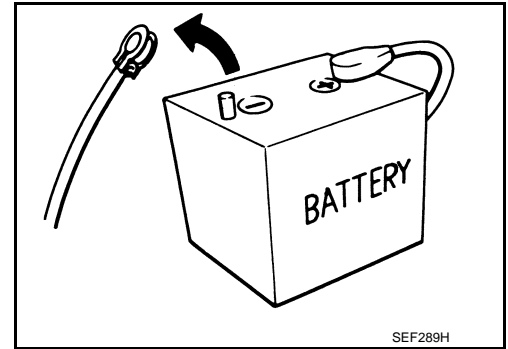
PRECAUTIONS

< PRECAUTION >

[SHORT WHEEL BASE MODELS]

- 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:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
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		



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.

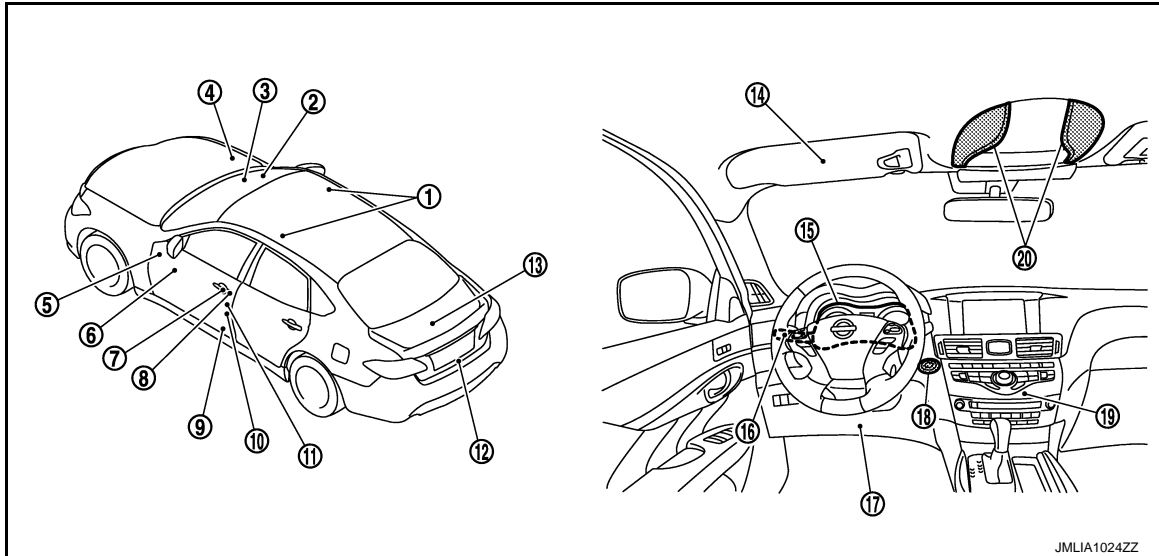
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR LIGHTING SYSTEM

INTERIOR LIGHTING SYSTEM : Component Parts Location

INFOID:000000012356051



- | | | |
|--|--|---------------------------------|
| 1. Personal lamp* | 2. Remote keyless entry receiver
Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" . | 3. Optical sensor |
| 4. IPDM E/R
Refer to PCS-5, "IPDM E/R : Component Parts Location" . | 5. BCM
Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" . | 6. Door lock and unlock switch |
| 7. Outside handle lamp | 8. Front door request switch (driver side) | 9. Step lamp |
| 10. Door switch | 11. Front door lock assembly (driver side) (door key cylinder switch, unlock sensor) | 12. Trunk closure assembly |
| 13. Trunk room lamp | 14. Vanity mirror lamp | 15. Combination meter |
| 16. Combination switch | 17. Foot lamp | 18. Push-button ignition switch |
| 19. AV control unit <ul style="list-style-type: none"> Base audio without navigation:
Refer to AV-13, "Component Parts Location". BOSE audio with navigation: Refer to AV-150, "Component Parts Location". | 20. Map lamp | |

*: With personal lamp.

INTERIOR LIGHTING SYSTEM : Component Description

INFOID:000000012356052

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 Intelligent Key.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

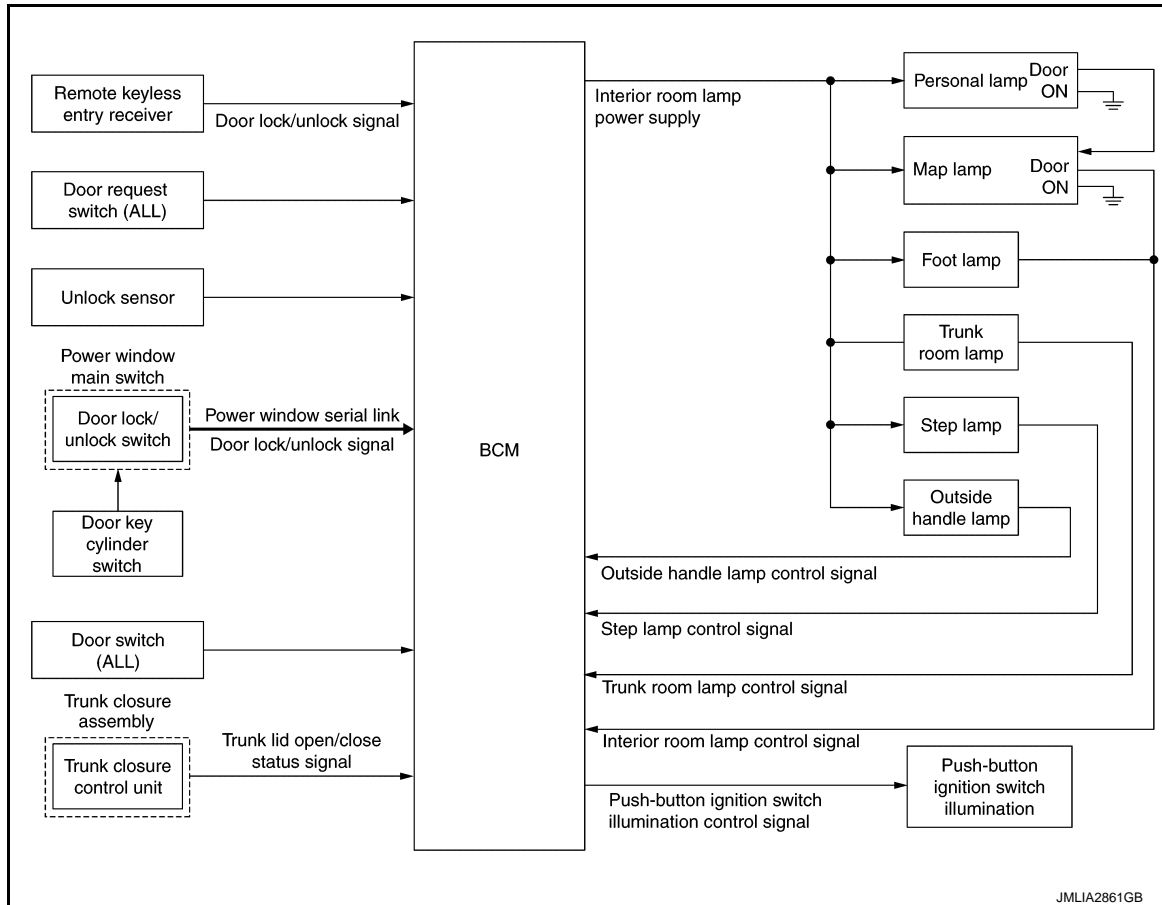
Part	Description
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description" .
<ul style="list-style-type: none">• Door lock and unlock switch• Door request switch• Door key cylinder switch	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.
Trunk closure assembly	Inputs the trunk lid open/close status signal to BCM.
Unlock sensor	Detects door lock condition of driver side door.
Optical sensor	Refer to EXL-12, "Optical Sensor" .

SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

INFOID:0000000012356053



INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

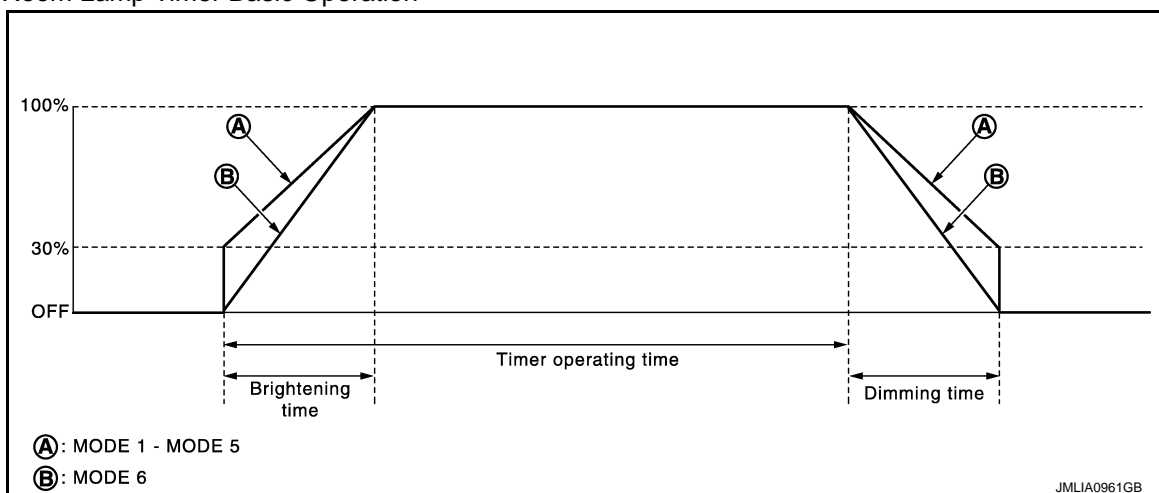
INFOID:0000000012356054

OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*: Map lamp, foot lamp and personal lamp (when map lamp switch and personal lamp switch are in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Outside handle lamp is controlled by outside handle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps and outside handle lamp are illuminated by welcome light function of Intelligent Key system. Refer to [DLK-25. "WELCOME LIGHT FUNCTION : System Description"](#).

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



NOTE:

A: Sets the interior room lamp gradual brightening and dimming time.

B: Gradually dims from 100% to 0% and gradually brightens 0% to 100% in 1 second.

- 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 timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (Remote keyless entry receiver, each door request switch, door key cylinder switch, door lock/unlock switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-17, "INT LAMP : CONSULT Function \(BCM - INT LAMP\) \(Short Wheel Base Models\)"](#).

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- When all doors are closed, and any all door unlock operation is performed or ignition switch is turned OFF, BCM brightens interior room lamp to 30% brightness and maintains 30% brightness until any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
 - Any door opens before all doors close.
 - Ignition switch is turned ON → OFF.
 - Any door unlock signal is detected when all doors close with ignition switch OFF.

NOTE:

The timer is restarted 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 turns the interior room lamp OFF.

- The interior room lamp timer operating time is expired with all doors closed.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

TRUNK ROOM LAMP CONTROL

BCM controls the trunk room lamp (ground-side) to turn ON when trunk lid is open.

STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

OUTSIDE HANDLE LAMP TIMER CONTROL

Outside Handle Lamp Timer Basic Operation

- BCM controls the ground to turn the outside handle lamp ON.
- The outside handle lamp turns ON and OFF by the outside handle lamp timer.
- BCM judges the vehicle condition with the following items. It activates the outside handle lamp timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (remote keyless entry receiver, each door request switch)

< SYSTEM DESCRIPTION >

- Driver side door lock status

Outside Handle Lamp ON Operation

BCM activates the outside handle lamp timer in any of the following conditions to turn the outside handle lamp ON for a period of time.

- Any door opens.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.
- Door unlock signal by remote keyless entry receiver or each door request switch is detected.
- Driver side door is locked

NOTE:

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

Outside Handle Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the outside handle lamp OFF.

- The outside handle lamp timer operating time is expired.
- The interior room lamp OFF conditions.
- The interior room lamp timer operating time is expired.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

BCM controls the ON/OFF status of push-button ignition switch illumination according to vehicle status.

Heart Beat Operation

BCM repeats brightening and dimming operation of push-button ignition switch illumination when any of the following conditions are satisfied.

- Welcome light function operates.
- When ignition switch is OFF and any of the following conditions are satisfied.
 - Driver door changes from closed to open
 - Intelligent Key ID comparison is OK and driver side door changes from open to closed
 - ID comparison by Intelligent Key transponder is OK
 - Driver door is unlocked

Illumination ON Operation

When ignition switch is ON, or tail lamp is ON, push-button ignition switch illumination turns ON.

Dimming Operation

When tail lamp is OFF and ignition switch is change from ON to OFF, ignition switch illumination dims to 50% brightness.

Illumination OFF Operation

When Push-button ignition switch illumination is at 100% brightness, if the next condition is satisfied, push-button ignition switch illumination turns OFF.

- Tail lamp turns OFF while ignition switch is OFF.

When push-button ignition switch illumination is at 50% brightness or, when in heartbeat status any of the following conditions are satisfied, push-button ignition switch illumination turns OFF.

When welcome light function is not operating and any on the following conditions is satisfied.

1. All of following conditions satisfied.
 - Driver side door is closed
 - Driver side door is locked
 - Intelligent Key ID comparison is NG
 - Comparison of Intelligent Key ID by transponder is NG
2. Driver side door from unlock to lock
3. 15 seconds* after start of heartbeat operation.

*:During the heartbeat status, 15 second timer resets when either of the following conditions are satisfied.

 - Driver door changes from closed to open
 - Intelligent Key ID comparison is OK and driver side door changes from open to closed
 - ID comparison by Intelligent Key transponder changes from NG to OK
 - Driver door changes from locked to unlocked

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

P

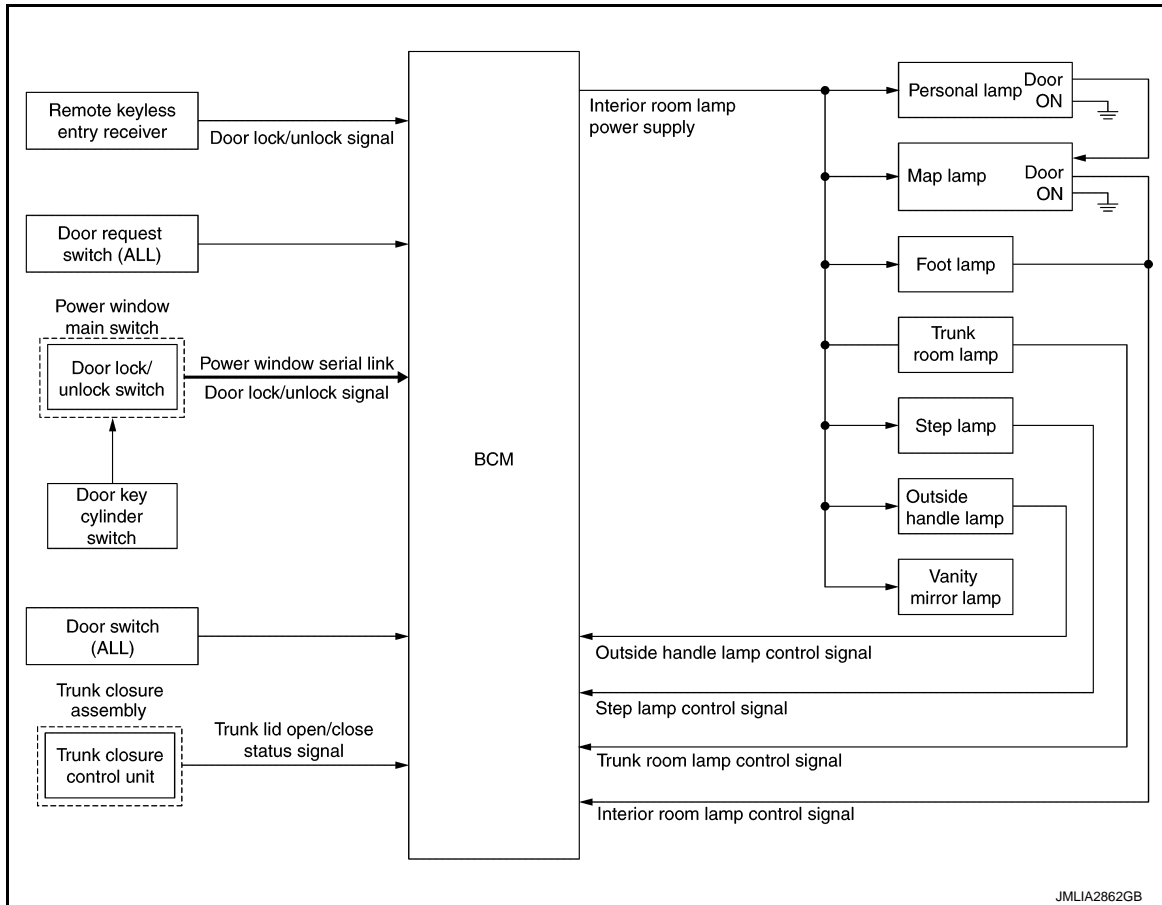
SYSTEM

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:000000012356055



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000012356056

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 neglect turning OFF the any lamps.

Applicable lamps

- Map lamp
- Personal lamp
- Foot lamp
- Trunk room lamp
- Step lamp
- Outside handle lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

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

NOTE:

SYSTEM

< SYSTEM DESCRIPTION >

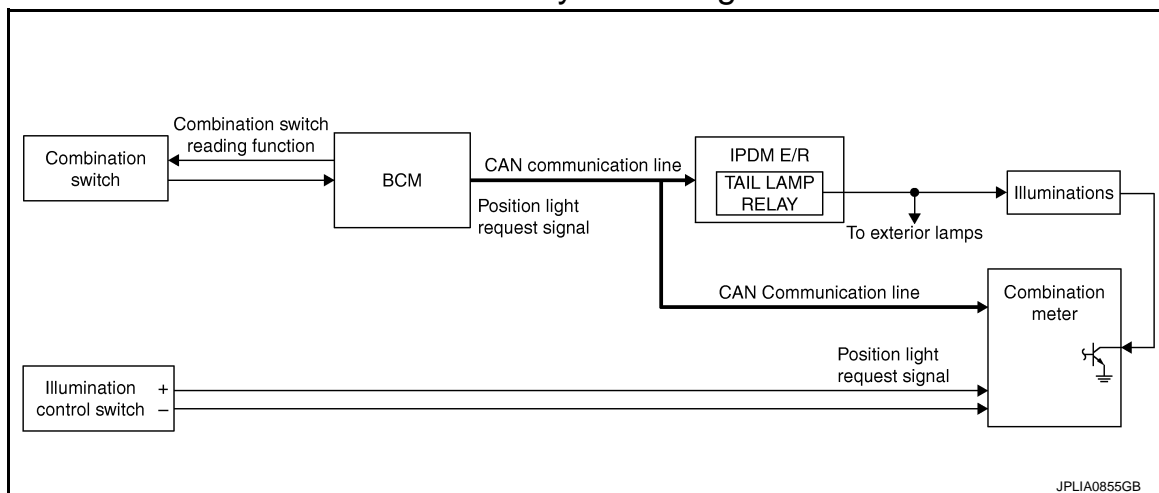
[SHORT WHEEL BASE MODELS]

Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-18. "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\) \(Short Wheel Base Models\)"](#).

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

INFOID:000000012356057



ILLUMINATION CONTROL SYSTEM : System Description

INFOID:000000012356058

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-17. "METER ILLUMINATION CONTROL : 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.

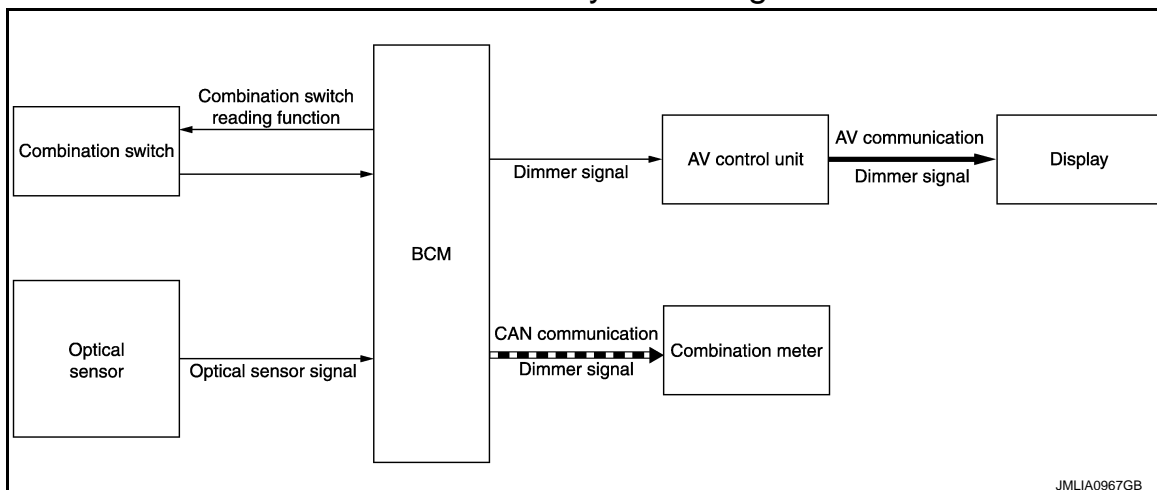
Tail lamp ON condition

- 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).

AUTO LIGHT ADJUSTMENT SYSTEM

AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram

INFOID:000000012356059



AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:000000012356060

OUTLINE

Auto light adjustment system is controlled by each function of BCM, combination meter and AV control unit

Control by BCM

- Auto light system
- Auto light adjustment system

AUTO LIGHT ADJUSTMENT SYSTEM

Description

- BCM supplies voltage to the optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges dims/brightness of combination meter and display according to brightness outside the vehicle, when ignition switch is ON.
- BCM transmits dimmer signal to combination meter via CAN communication, according to auto light adjustment conditions. Dimmer signal is also transmitted to AV control unit.

NOTE:

As to dims/brightness timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-26. "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)".](#)

Auto Light Adjustment Timing Table

When the ignition switch is ON, the combination meter and display turns dims/brightness in the following condition.

Combination meter and display	Dims/brightness timing
Dims	Outside brightness is 1250 lx or less for 3 seconds or more.
Brightness	Outside brightness is 2500 lx or more for 5 seconds or more.

BCM turns combination meter and display dims when outside brightness obtained from the optical sensor signal is 1250 lx or less for 3 seconds or more. And BCM turns combination meter and display brightness when outside brightness from the optical sensor signal is 2500 lx or more for 5 seconds or more.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012356061

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 CONDITONER*		×	×
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
—	AIR PRESSURE MONITOR*	×	×	×

*: This item 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 >

[SHORT WHEEL BASE MODELS]

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 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 stopping and selector lever is except 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 with steering is locked.)*
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	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	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 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

DIAGNOSIS SYSTEM (BCM)

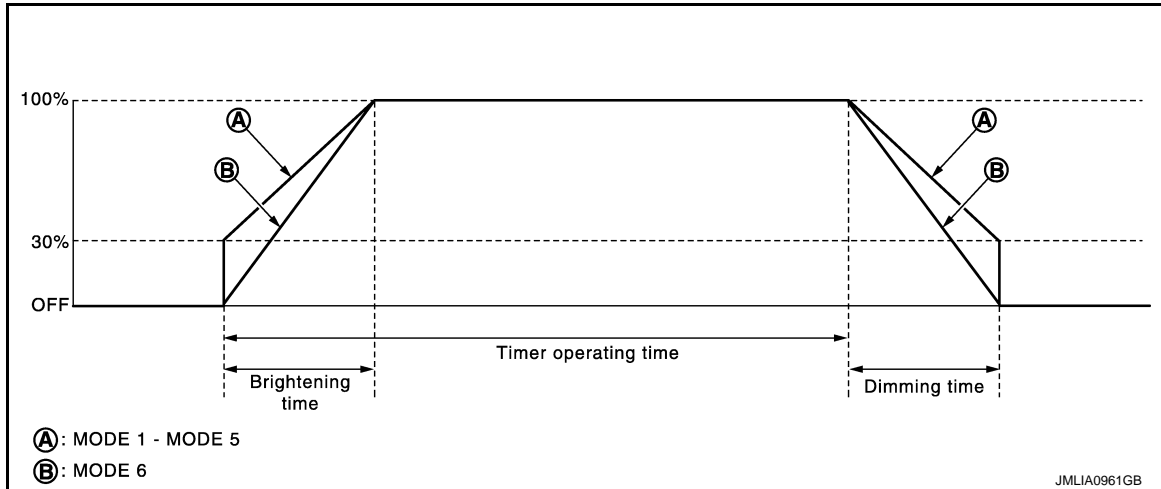
< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

INT LAMP : CONSULT Function (BCM - INT LAMP) (Short Wheel Base Models)

INFOID:0000000012356062

WORK SUPPORT



Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function	
	Off	Without the interior room lamp timer function	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 3*	15 sec.	
	MODE 4	30 sec.	
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually brightens from 0% to 100% brightness in 1 second.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually dims from 100% to 0% in 1 second.	
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.	

*: Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

Monitor item [Unit]	Description
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	Push switch status input from push-button ignition switch
UNLK SEN -DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW- BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch
TRNK/HAT MNTR [On/Off]	Trunk lid open/close status received from trunk closure assembly
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

Test item	Operation	Description
INT LAMP	On	Outputs the interior room lamp control signal to turn the interior room lamps ON. [Map lamp, personal lamp, foot lamp (when applicable lamps switch is in DOOR position.)]
	Off	Stops the interior room lamp control signal to turn the interior room lamps OFF.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn the step lamps ON.
	Off	Stops the step lamp control signal to turn the step lamps ON.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) (Short Wheel Base Models)

INFOID:0000000012356063

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

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 factory setting is 10 minutes. The setting cannot be re- turned 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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	Push switch status input from push-button ignition switch
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW- BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

Monitor item [Unit]	Description
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch
TRNK/HAT MNTR [On/Off]	Trunk lid open/close status received from trunk closure assembly
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

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

*: Each lamp switch is in ON position.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012356064

ECU	Reference
BCM	BCS-37, "Reference Value"
	BCS-57, "Fail-safe"
	BCS-58, "DTC Inspection Priority Chart"
	BCS-59, "DTC Index"

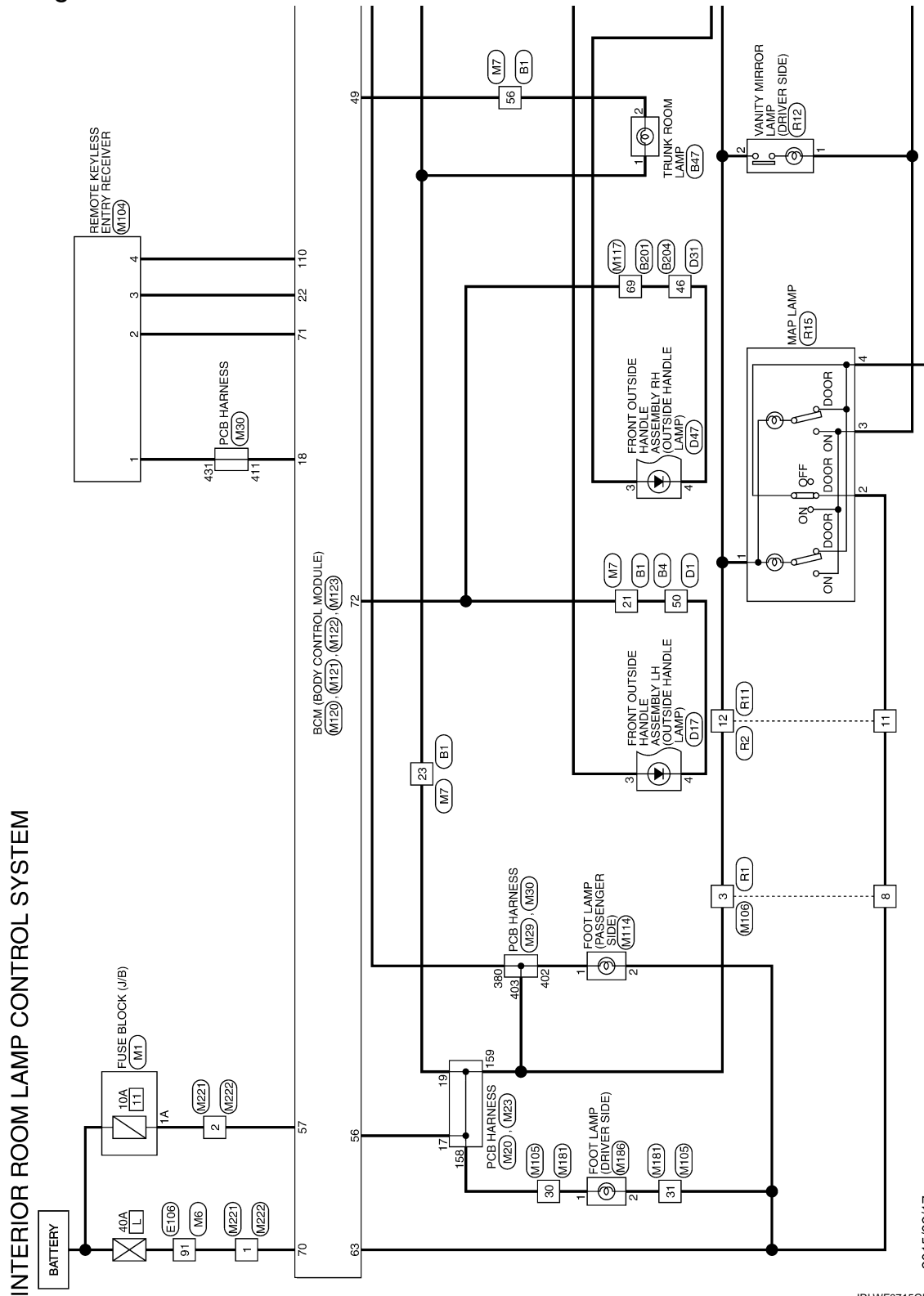
A
B
C
D
E
F
G
H
I
J
K
INL
M
N
O
P

[SHORT WHEEL BASE MODELS]

WIRING DIAGRAM

Wiring Diagram

2015/02/17



JRLWF0715GB

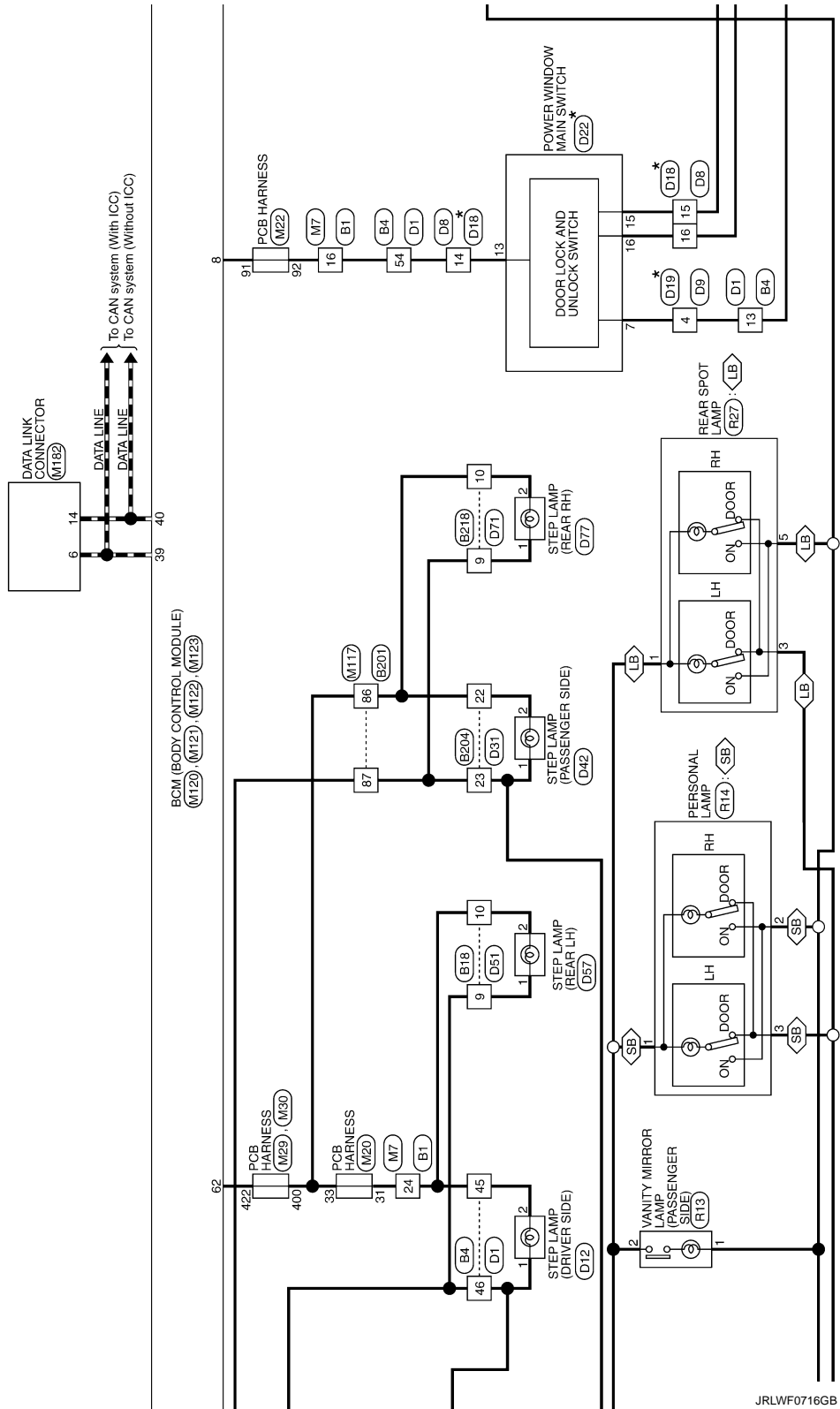
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

SB : With personal lamp
LB : With spot lamp

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



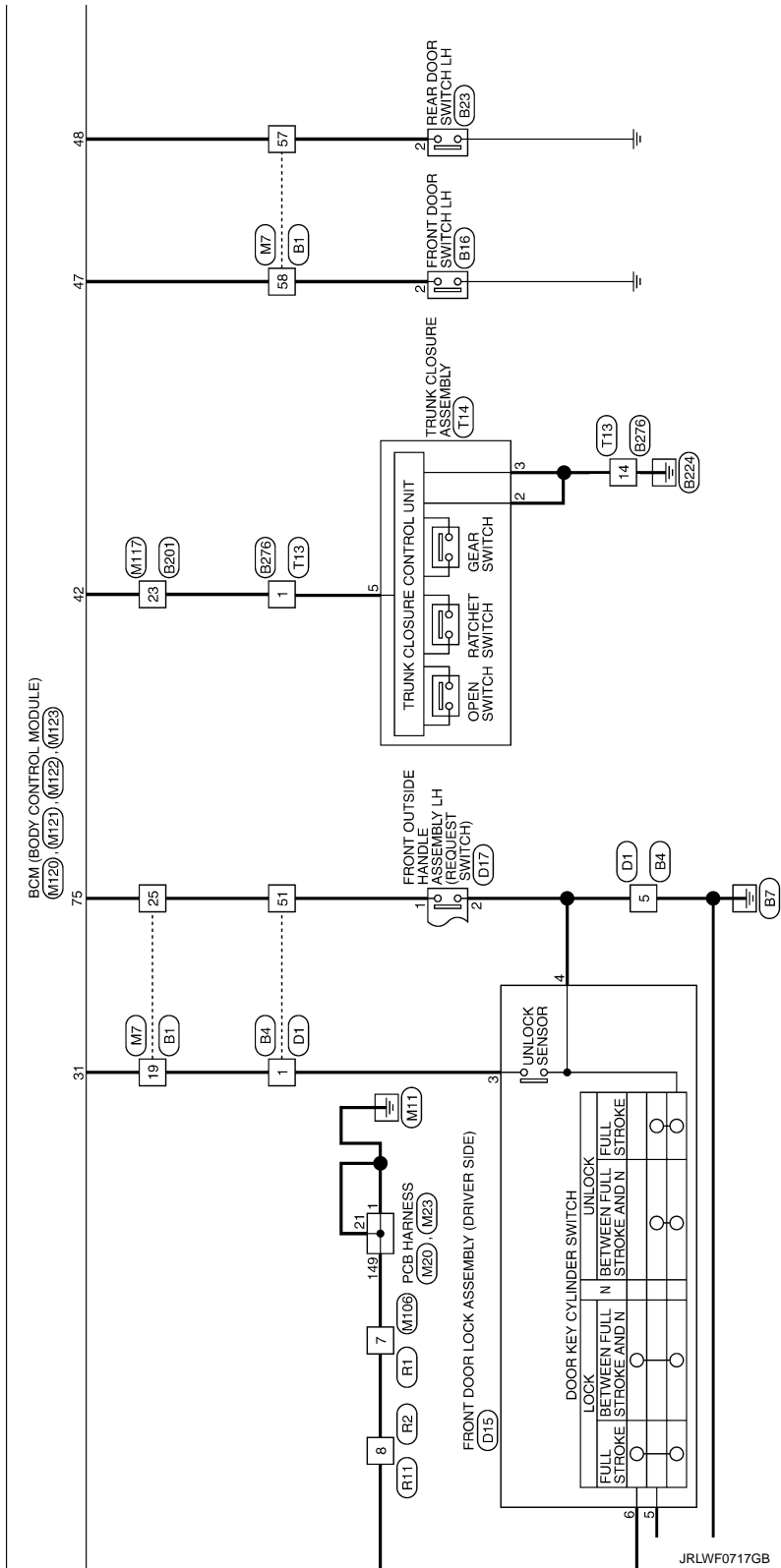
JRLWF0716GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

< WIRING DIAGRAM >



[SHORT WHEEL BASE MODELS]

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



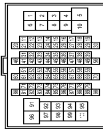
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

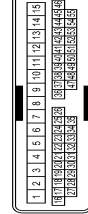
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	E1
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS15-TM44



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat]
11	L	- [With heated seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	R	-
15	U	-
16	U	-
17	B	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	S8	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
36	G	-
37	S8	-
40	SHIELD	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	B/W	-
14	S8	-
15	O	-
16	Y	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	S8	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	S8	-
30	L	-
31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-

36	P	-
37	BR	-
38	W	-
39	O	-
40	L	-
41	W	-
42	B	-
43	R	-
44	G	-
45	Y	-
46	V	-
47	S8	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW



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

JRLWF5988GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH8DMM-CS10

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Color Of Wire	LG	P	R	G	B	W	Y	L	Y	L	Y	B	W	Y	L	Y	B	W	Y	L

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13
Color Of Wire	LG	P	R	G	B	W	Y	L	Y	B	W	Y	L

Connector No.	B23
Connector Name	REAR DOOR SWITCH LH
Connector Type	AD3FW

Terminal No.	2
Color Of Wire	BR

Terminal No.	2
Color Of Wire	BR

Connector No.	B47
Connector Name	TRUNK ROOM LAMP
Connector Type	G03FW

Terminal No.	1	2
Color Of Wire	V	P

Terminal No.	1	2
Color Of Wire	V	P

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DMM-CS16-TM4

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Color Of Wire	LG	P	R	G	B	W	Y	L	Y	B	W	Y	L	Y	B	W	Y	L	Y	B	W	Y	L	Y

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Color Of Wire	LG	P	R	G	B	W	Y	L	Y	B	W	Y	L	Y	B	W	Y	L	Y	B	W	Y	L

85	LG	-	
86	W	-	
87	O	-	
88	Y	-	
89	BR	-	
90	L	-	
91	BR	-	
92		-	
93	O	-	[With climate controlled seat]
94	GR	-	
95	W	-	
96	W	-	
97	W	-	
98	LG	-	
99	LG	-	
100	Y	-	

Connector No.	B204
Connector Name	WIRE TO WIRE
Connector Type	TH8DMM-CS15

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Color Of Wire	LG	P	R	G	B	W	Y	L	Y	B	W	Y	L	Y	B

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Color Of Wire	LG	BR	Y	Y	R	R	P	V	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

JRLWF5989GB

INTERIOR ROOM LAMP CONTROL SYSTEM

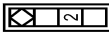
< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	G	-
33	R	-
35	P	-
36	B/R	-
37	BR	-
38	SB	-
39	P	-
44	SB	-
46	B	-
53	L	-
54	B	-
55	V	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH RH
Connector Type	A03FW



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

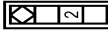
Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



6	5	4	3	2	1
13	12	11	10	9	8
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	0	-	-	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	O	-
4	P	-
7	B	-
8	P	-
9	O	-
10	W	-
11	O	-
12	Y	-
13	B	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



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

Connector No.	B276
Connector Name	WIRE TO WIRE
Connector Type	NS16PW-CS



8	7	6	5	4	3	2	1
15	14	13	12	11	10	9	8
22	21	20	19	18	17	16	15
31	30	29	28	27	26	25	24
40	39	38	37	36	35	34	33
49	48	47	46	45	44	43	42
58	57	56	55	54	53	52	51
67	66	65	64	63	62	61	60
76	75	74	73	72	71	70	69
85	84	83	82	81	80	79	78
94	93	92	91	90	89	88	87
103	102	101	100	99	98	97	96
112	111	110	109	108	107	106	105
121	120	119	118	117	116	115	114
130	129	128	127	126	125	124	123
139	138	137	136	135	134	133	132
148	147	146	145	144	143	142	141
157	156	155	154	153	152	151	150
159	158	157	156	155	154	153	152
167	166	165	164	163	162	161	160
176	175	174	173	172	171	170	169
185	184	183	182	181	180	179	178
194	193	192	191	190	189	188	187
203	202	201	200	199	198	197	196
212	211	210	209	208	207	206	205
221	220	219	218	217	216	215	214
230	229	228	227	226	225	224	223
239	238	237	236	235	234	233	232
248	247	246	245	244	243	242	241
257	256	255	254	253	252	251	250
266	265	264	263	262	261	260	259
275	274	273	272	271	270	269	268
284	283	282	281	280	279	278	277
293	292	291	290	289	288	287	286
302	301	300	299	298	297	296	295
311	310	309	308	307	306	305	304
320	319	318	317	316	315	314	313
329	328	327	326	325	324	323	322
338	337	336	335	334	333	332	331
347	346	345	344	343	342	341	340
356	355	354	353	352	351	350	349
365	364	363	362	361	360	359	358
374	373	372	371	370	369	368	367
383	382	381	380	379	378	377	376
392	391	390	389	388	387	386	385
401	400	399	398	397	396	395	394
410	409	408	407	406	405	404	403
419	418	417	416	415	414	413	412
428	427	426	425	424	423	422	421
437	436	435	434	433	432	431	430
446	445	444	443	442	441	440	439
455	454	453	452	451	450	449	448
464	463	462	461	460	459	458	457
473	472	471	470	469	468	467	466
482	481	480	479	478	477	476	475
491	490	489	488	487	486	485	484
500	499	498	497	496	495	494	493
509	508	507	506	505	504	503	502
518	517	516	515	514	513	512	511
527	526	525	524	523	522	521	520
536	535	534	533	532	531	530	529
545	544	543	542	541	540	539	538
554	553	552	551	550	549	548	547
563	562	561	560	559	558	557	556
572	571	570	569	568	567	566	565
581	580	579	578	577	576	575	574
590	589	588	587	586	585	584	583
600	599	598	597	596	595	594	593
609	608	607	606	605	604	603	602
618	617	616	615	614	613	612	611
627	626	625	624	623	622	621	620
636	635	634	633	632	631	630	629
645	644	643	642	641	640	639	638
654	653	652	651	650	649	648	647
663	662	661	660	659	658	657	656
672	671	670	669	668	667	666	665
681	680	679	678	677	676	675	674
690	689	688	687	686	685	684	683
700	699	698	697	696	695	694	693
709	708	707	706	705	704	703	702
718	717	716	715	714	713	712	711
727	726	725	724	723	722	721	720
736	735	734	733	732	731	730	729
745	744	743	742	741	740	739	738
754	753	752	751	750	749	748	747
763	762	761	760	759	758	757	756
772	771	770	769	768	767	766	765
781	780	779	778	777	776	775	774
790	789	788	787	786	785	784	783
800	799	798	797	796	795	794	793
809	808	807	806	805	804	803	802
818	817	816	815	814	813	812	811
827	826	825	824	823	822	821	820
836	835	834	833	832	831	830	829
845	844	843	842	841	840	839	838
854	853	852	851	850	849	848	847
863	862	861	860	859	858	857	856
872	871	870	869	868	867	866	865
881	880	879	878	877	876	875	874
890	889	888	887	886	885	884	883
900	899	898	897	896	895	894	893
909	908	907	906	905	904	903	902
918	917	916	915	914	913	912	911
927	926	925	924	923	922	921	920
936	935	934	933	932	931	930	929
945	944	943	942	941	940	939	938
954	953	952	951	950	949	948	947
963	962	961	960	959	958	957	956
972	971	970	969	968	967	966	965
981	980	979	978	977	976	975	974
990	989	988	987	986	985	984	983
1000	999	998	997	996	995	994	993
1009	1008	1007	1006	1005	1004	1003	1002
1018	1017	1016	1015	1014	1013	1012	1011
1027	1026	1025	1024	1023	1022	1021	1020
1036	1035	1034	1033	1032	1031	1030	1029
1045	1044	1043	1042	1041	1040	1039	1038
1054	1053	1052	1051	1050	1049	1048	1047
1063	1062	1061	1060	1059	1058	1057	1056
1072	1071	1070	1069	1068	1067	1066	1065
1081	1080	1079	1078	1077	1076	1075	1074
1090	1089	1088	1087	1086	1085	1084	1083
1100	1099	1098	1097	1096	1095	1094	1093
1109	1108	1107	1106	1105	1104	1103	1102
1118	1117	1116	1115	1114	1113	1112	1111
1127	1126	1125	1124	1123	1122	1121	1120
1136	1135	1134	1133	1132	1131	1130	1129
1145	1144	1143	1142	1141	1140	1139	1138
1154	1153	1152	1151	1150	1149	1148	1147
1163	1162	1161	1160	1159	1158	1157	1156
1172	1171	1170	1169	1168	1167	1166	1165
1181	1180	1179	1178	1177	1176	1175	1174
1190	1189	1188	1187	1186	1185	1184	1183
1200	1199	1198	1197	1196	1195	1194	1193
1209	1208	1207	1206	1205	1204	1203	1202
1218	1217	1216	1215	1214	1213	1212	1211
1227	1226	1225	1224	1223	1222	1221	1220
1236	1235	1234	1233	1232	1231	1230	1229
1245	1244	1243	1242	1241	1240	1239	1238
1254	1253	1252	1251	1250	1249	1248	1247
1263	1262	1261	1260	1259	1258	1257	1256
1272	1271	1270	1269	1268	1267	1266	1265
1281	1280	1279	1278	1277	1276	1275	1274
1290	1289	1288	1287	1286	1285	1284	12

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

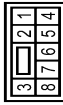
54	W	-
55	SHIELD	-

Connector No.	D8
Connector Name	WIRE TO WIRE
Connector Type	TH24WV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	-
7	Y	-
8	V	-
9	GR	-
10	G	-
11	W	-
12	O	-
13	O	-
14	W	-
15	R	-
16	G	-
19	BR	-
20	SB	-
21	L	-
22	B	-
24	SB	-

Connector No.	D9
Connector Name	WIRE TO WIRE
Connector Type	NSDBPW-CS



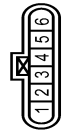
Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	O	-
4	B/W	-
5	L	-
6	G	-
7	Y	-
8	B	-

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TR02FW



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

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	DS06CP-RS



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

Connector No.	D17
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Type	S4206FW



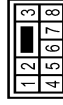
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	B/W	-

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	TH24WV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	-
7	V/W	-
8	V	-
9	V/B	-
10	V/W	-
11	V/W	-
12	O	-
13	LG	-
14	-	-
15	R	-
16	G	-
19	V	-
20	SB	-
21	R	-
23	LG	-
24	SB	-

Connector No.	D19
Connector Name	WIRE TO WIRE
Connector Type	NSDBMW-CS



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

JRLWF5991GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

9	G	-
10	R	-
8	B	-

Connector No.	D22
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



		3	4	<input type="checkbox"/>	5	6	7
		9	10	11	12	13	15
						16	

Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	ENCODER POWER SUPPLY
4	Y	BATTERY POWER SUPPLY
5	G	FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL
6	L	FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL
7	B	GROUND
9	O	RETAINED POWER SIGNAL
10	LG	ENCODER GROUND
11	P	ENCODER SIGNAL 1
12	LG	ENCODER SIGNAL 2
13	R	POWER WINDOW MOTOR (LINK)
15	R	DOOR KEY CYLINDER SWITCH UNLOCK SIGNAL
16	G	DOOR KEY CYLINDER SWITCH UNLOCK SIGNAL

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/W	-
5	GR	-

9	V	-
10	R	-
11	L	-
12	Y	-
13	BR	-
14	G	-
15	SB	-
16	G	-
17	P	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	SB	-
23	G	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	P	-
33	L	-
35	W	-
36	L	-
37	P	-
38	SB	-
39	G	-
44	SB	-
46	B/W	-
53	L	-
54	B	-
55	V	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TBD2FW



2	1
---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-

Connector No.	D47
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	SAZ06FW



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	G	-
4	B/W	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10MM-CS10



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D57
Connector Name	STEP LAMP (REAR LH)
Connector Type	TBD2FW



2	1
---	---

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

JRLWVF5992GB

INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS10

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D77
Connector Name	STEP LAMP (REAR RH)
Connector Type	FB22FW



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	LG	-
5	O	-
6	W	-
7	GR	-
8	G	-
9	Y	-
10	BR	-
11	SB	-
12	L	-
13	GR	-
14	GR	-
15	V	-
16	Y	-
17	GR	-
18	V	-
19	BR	-
20	P	-
21	P	-
22	L	-
23	P	-
27	SHIELD	-
28	L/O	-
29	W/L	-
31	BR	-
32	G	-
33	O	-
34	Y	-
36	G	-
37	V	-
41	BR	-
44	W	-
45	L	-
46	GR	-
47	V	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS05FW-A2



3A	2A/1A
6A	6A/5A/4A

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	R	-
2A	W	-
3A	Y	-
4A	W	-
5A	V	-
6A	Y	-
8A	Y	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



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

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

JRLW5993GB

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

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

2016 Q70

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

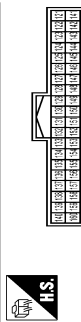
24	L	-
27	P	-
31	V	-
32	L	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M22
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



109	BR	-
110	Y	-
112	B	-
113	W	-
114	T	-
116	B	-
117	B	- [With V56 engine]
118	RG	- [With VQ37 engine]
119	LG	-
120	V	-

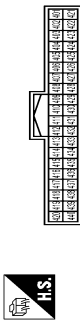
Connector No.	M23
Connector Name	PCB HARNESS
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	-
82	P	-
83	B	-
84	B	-
85	B	-
86	B	-
87	B	-
88	Y	-
89	V	-
91	V	-
92	V	-
93	B	-
94	B	-
95	LG	-
96	BR	-
97	G	-
98	G	-
99	G	-
100	G	-
101	L	-
102	P	-
103	B	-
104	BR	-
105	R	-
107	Y	-
108	Y	-

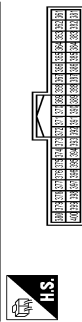
Terminal No.	Color Of Wire	Signal Name [Specification]
121	R	-
122	V	-
123	RG	-
124	RG	-
126	B	-
127	SB	-
131	LG	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
141	W	-
142	W	-
144	P	-
145	B	-
146	LG	-
147	B	-
149	B	-
150	P	-
151	L	-
152	B	-

Connector No.	M30
Connector Name	PCB HARNESS
Connector Type	TH40P14-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
417	B	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	P	-
438	LG	-
439	B	-
432	V	-
435	V	-
436	RG	-
437	B	-
438	P	-
439	L	-
440	B	-

Connector No.	M29
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
361	W	-
362	W	-
363	Y	-
366	B	-
367	B	-
368	G	-
374	RG	-
375	RG	-
376	V	-
378	B	-
380	R	-
381	G	-
382	V	-
384	GR	-
395	P	-
396	L	-
400	V	-

JRLWF5995GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M103
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FBR



Connector No.	M105
Connector Name	WIRE TO WIRE
Connector Type	TH40FHW-NH



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

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FHW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	BR	SIGNAL OUTPUT
3	GR	RS51
4	R	BATTERY

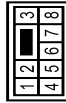
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	R	-
7	B	-
8	L	-

Connector No.	M114
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	CO2FW



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NS08FHW-CS



Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH08FHW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	Y	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	- [Without ADAS]
15	Y	- [With ADAS]
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	LG	-
22	R	-
23	LG	-
24	BG	-
25	BG	-
26	W	-
27	R	-
28	V	-
29	P	-
30	B	-
31	G	-
32	Y	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	BG	- [With heated seat]
46	L	- [With climate controlled seat]
47	G	- [With climate controlled seat]
47	GR	- [With heated seat]
48	V	-

JRLWF5996GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

49	BG	-	-
50	LG	-	-
51	SB	-	-
52	W	-	-
53	W	-	-
54	B	-	-
55	G	-	-
56	R	-	-
57	W	-	-
58	W	-	-
59	W	-	-
60	LG	-	-
61	LG	-	-
62	V	-	-
63	R	-	-
64	SB	-	-
65	LG	-	-
66	L	-	-
67	Y	-	-
68	SB	-	-
69	B	-	-
70	L	-	-
71	L	-	-
72	L	-	-
73	P	-	-
74	B	-	-
75	L	-	-
76	SHIELD	-	-
77	G	-	-
78	R	-	-
79	L	-	-
80	G	-	-
81	BG	-	-
82	BR	-	-
83	GR	-	-
84	LG	-	-
85	W	-	-
86	V	-	-
87	R	-	-
88	Y	-	-
89	BR	-	-
90	L	-	-
91	Y	-	-
93	G	-	- [With heated seat] - [With climate controlled seat]
93	W	-	-
94	V	-	-
96	W	-	-
97	Y	-	-
98	BR	-	-
99	G	-	-
100	Y	-	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH409FW-NH



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

Terminal No.	Wire	Signal Name [Specification]
1	G	RR WINDOW DEFROST RLY CONT
2	BG	COMBI SW INPUT 5
3	SB	COMBI SW INPUT 4
4	L	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	P	COMBI SW INPUT 1
8	V	POWER WINDOW SW COMM
9	P	STOP LAMP SW 1
11	R	RAIN SENSOR SERIAL LINK
14	W	OPTICAL SENSOR
16	SB	DIMMER SIGNAL
17	Y	SENSOR PWR SPLY
18	B	RECEIVER SENSOR GND
19	V	TURN SIG RH OUTPUT (FRONT)
20	G	TURN SIG LH OUTPUT (FRONT)
21	P	WTS ANT AMP
22	GR	KEY IDENTIFICATION
23	G	RECEIVER IDENT
24	L	CONSOLE LOCK
25	G	WTS ANT AMP
26	G	I-KEY IDENTIFICATION
29	G	HAZARD SW
30	O	TR LID OPEN SW
31	W	DR DOOR UNLK SENSOR
32	BR	COMBI SW OUTPUT 5
33	R	COMBI SW OUTPUT 4
34	V	COMBI SW OUTPUT 3
35	Y	COMBI SW OUTPUT 2
36	LG	COMBI SW OUTPUT 1
37	R	P POSITION
39	L	CAN-H
40	P	CAN-L

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE408FB-FH46-SA



41	42	44	45	46	47	48	49	51	53	55
41	42	44	45	46	47	48	49	51	53	55

Terminal No.	Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	R	TRUNK LID OPEN/CLOSE STATUS
44	V	TR LID OP CANCEL SW
45	GR	PASSENGER DOOR SW
46	BR	REAR RH DOOR SW
47	LG	DRIVER DOOR SW
48	P	REAR LH DOOR SW
49	SB	TR ROOM LAMP CONT
51	BG	TR LID OPEN REQ SW
53	LG	TRUNK LID OPEN REQUEST
55	BR	RR DOOR UNLK OUTPUT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE408FW-FH46-SA



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

Terminal No.	Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	AIR BAG SIGNAL
59	G	PASSENGER DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP TIMER CONT
65	V	ALL DOOR, FL LID LOCK OUTPUT

66	LG	DR DOOR, FL LID UNLK OUTPUT
67	B	GND
68	W	PWR PWR SPLY (IGN)
69	O	PWR PWR SPLY (BAT)
70	W	BAT (7.2V)

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH409FW-NH



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

Terminal No.	Wire	Signal Name [Specification]
71	BR	RYLS ENT RECEIVER COMMA
72	B	OUTS HD LAMP OUTPUT
73	V	ON IND
75	G	DR DOOR REQ SW
76	BR	PUSH SW
78	BR	DRIVER DOOR ANT+
79	SB	DRIVER DOOR ANT-
80	LG	PASSENGER DOOR ANT+
81	V	PASSENGER DOOR ANT-
82	Y	REAR SWR ANT+
83	SB	REAR SWR ANT-
84	BR	ROOM ANT+
85	V	ROOM ANT-
86	R	ROOM ANT2+
87	G	ROOM ANT2-
88	V	TRUNK ROOM ANT+
89	SB	TRUNK ROOM ANT-
90	R	PUSH-BTN IGN SW ILL PWR
91	GR	LOCK IND
92	B	PUSH-BTN IGN SW ILL GND
93	V	I-KEY WARN BUZZER
96	SB	ACC RELAY CONT
97	SB	STARTER RELAY CONT
98	B	IGN RELAY (PDM E/R) CONT
99	R	IGN RELAY (PDM E/R) CONT
100	SB	PASS DOOR REQ SW
102	BR	P/N POSITION
104	GR	A/T SHIFT SELECT PWR SPLY
105	R	STOP LAMP SW 2

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

INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

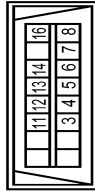
108	B	BLW RELAY CONT
109	R	RECEIVED PWS SPV
110	R	

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH40MM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	R	-
6	BR	-
7	L	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	SB	-
13	P	-
14	BR	-
15	BR	-
16	V	-
18	G	-
22	RG	-
23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M182
Connector Name	DATA LINK CONNECTOR
Connector Type	ED15FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	M-CAN_L
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLIVE
8	LG	IGN_SW
11	SB	M-CAN_H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
16	W	POWER

Connector No.	M186
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	G03FW



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

Connector No.	M221
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



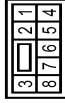
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	W	-

Connector No.	M222
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	HS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	GR	-
7	B	-
8	BR	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH2AMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	P	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	LG	-
18	L	-

JRLWVF5998GB

INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

19	G	-
20	R	-
21	B	-
22	GR	-
24	P	-

Connector No.	RL1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	BR	-
13	W	-
14	L	-
17	L	-
18	LG	-
19	R	-
20	G	-
21	R	-
22	B	-
23	GR	-
24	P	-

Connector No.	RL2
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MCA02FW



1	2
---	---

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

Connector No.	RL3
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MCA02FW



1	2
---	---

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

Connector No.	RL4
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



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

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

Connector No.	RL5
Connector Name	MAP LAMP
Connector Type	TK08FGY



1	6	5	4	3	2	1
---	---	---	---	---	---	---

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

Connector No.	RL7
Connector Name	REAR SPOT LAMP
Connector Type	LAGS-S-SDG



5	3	1
---	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	+B
3	Y	DOOR
5	V	GND

Connector No.	TL13
Connector Name	WIRE TO WIRE
Connector Type	INS16FW-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8	7	6	5	4	3
2	1	0	9	8	7	6

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
5	W	-
6	R	-
7	G	-
8	O	-
9	V	-
10	L	-
11	W	-
12	B	-
13	R	-
14	L	-
15	P	-

JRLWF5999GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	T14
Connector Name	TRUNK CLOSURE ASSEMBLY
Connector Type	MS06PW-05



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	L	-
4	P	-
5	Y	-
6	R	-

JRLWF6000GB

[SHORT WHEEL BASE MODELS]

ILLUMINATION

INFOID:0000000012356066



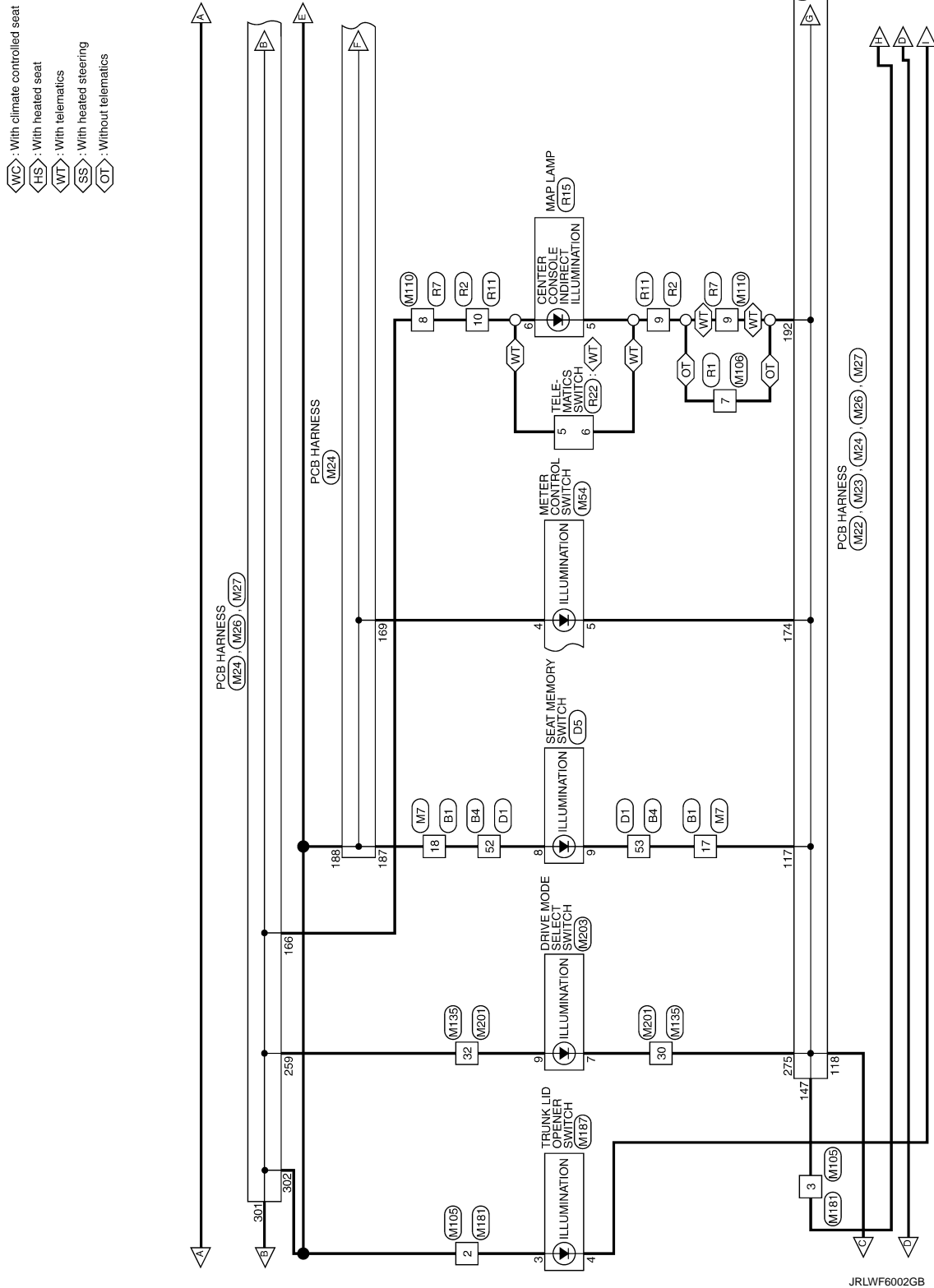
2015/09/02

2016 Q70

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]



[SHORT WHEEL BASE MODELS]

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

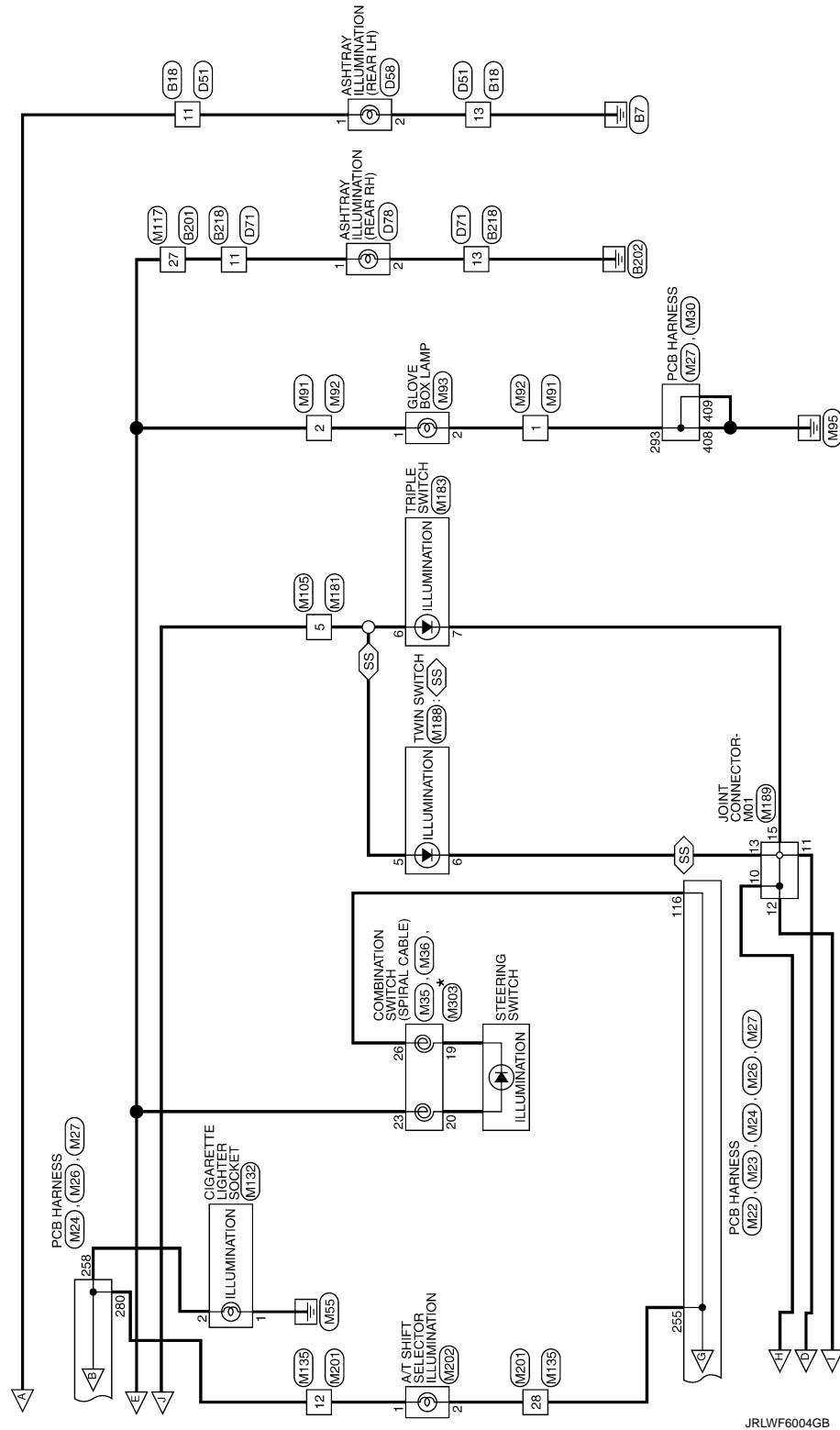


ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

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



ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

ILLUMINATION

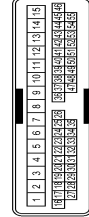
Connector No.	E1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS15-TM44



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat]
11	L	- [With heated seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	R	-
15	O	-
16	B	-
17	R	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	SB	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
36	G	-
37	SB	-
40	SHIELD	-

41	GR/V	-
42	W/L	-
43	L	-
44	B	-
47	O	-
48	V	-
49	BR	-
50	SB	-
51	V	-
52	LG	-
53	G	-
56	P	-
57	BR	-
58	LG	-
59	Y	-
60	W	-
61	B	-
62	LG	-
63	V	-
65	O	-
66	BR	-
67	V	-
68	LG	-
69	GR	-
70	R	-
72	L	-
73	P	-
74	L	-
75	P	-
76	Y	-
78	W	-
78	W	-
79	G	-
81	LG	-
82	BR	-
83	SB	-
84	Y	-
85	W	-
86	R	-
87	G	-
88	GR	-
91	SB	-
92	G	-
96	Y	-
97	O	-
98	SB	-
99	LG	-

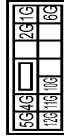
Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	B/W	-
14	SB	-
15	O	-
16	G	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	SB	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	SB	-
30	L	-
31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-

36	P	-
37	BR	-
38	W	-
39	O	-
41	W	-
42	B	-
43	R	-
44	G	-
45	V	-
46	V	-
47	SB	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBK-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10G	W	-
11G	W	-
12G	GR	-
13G	GR	-
2G	G/R	-
4G	L	-
5G	P/L	-
6G	G	-

JRLWF6005GB

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

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

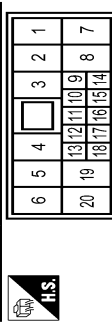
ILLUMINATION

Connector No.	B16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW



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

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	WHLDPW-CS10



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

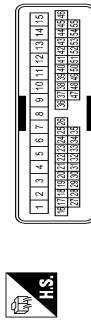
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8BMV-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	R	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	Y	-
14	L	-
15	R	-
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	V	-
22	GR	-
23	GR	-
24	V	-
25	B	-
26	W	-
27	O	-
28	V	-
29	P	-
30	O	-
31	B/R	-
32	Y	-
40	SHIELD	-
41	W/R	-
42	V	-
45	SB	-
46	R	-
47	G	-
48	GR	-

49	O	-
50	P	-
51	GR	-
52	LG	-
53	P	-
56	P	-
57	W	-
58	O	-
59	Y	-
61	SB	-
62	L	-
63	W	-
64	SB	-
65	LG	-
66	L	-
67	Y	-
68	SB	-
69	B	-
71	L	-
72	L	-
73	R	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	P	-
80	G	-
81	GR	-
82	GR	-
83	W	-
84	V	-
85	LG	-
86	W	-
87	O	-
88	Y	-
89	BR	-
90	L	-
91	BR	-
93	O	-
93	Y	-
94	GR	-
96	W	-
97	P	-
98	LG	-
99	LG	-
100	Y	-

Connector No.	B204
Connector Name	WIRE TO WIRE
Connector Type	TH8BMV-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B/W	-
3	B/W	-
5	Y	-
9	R	-
10	P	-
11	V	-
12	Y	-
13	BR	-
14	LG	-
15	GR	-
16	G	-
17	O	-
18	BR	-
19	GR	-
20	LG	-
21	W	-
22	O	-
23	O	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	G	-
33	R	-
35	P	-
36	B/R	-
37	BR	-
38	SB	-
39	P	-
44	SB	-
46	B	-
53	L	-

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

ILLUMINATION

54	B	-
55	V	-

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS10



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	O	-
4	P	-
7	B	-
8	P	-
9	O	-
10	W	-
11	O	-
12	Y	-
13	B	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



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

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

6	L	-
7	R	-
8	GR	-
9	G	-
10	LG	-
11	P	-
12	LG	-
13	B/W	-
14	Y	-
15	O	-
16	R	-
17	Y	-
18	BR	-
19	W	-
20	O	-
21	GR	-
22	G	-
23	LG	-
24	B	-
25	L	-
26	P	-
27	V	-
28	W	-
29	GR	-
30	G	-
31	Y	-
32	O	-
33	BR	-
34	L	-
35	P	-
36	V	-
37	GR	-
38	G	-
39	W	-
40	R	-
41	W	-
42	B	-
43	R	-
44	G	-
45	LG	-
46	BR	-
47	L	-
48	Y	-
49	P	-
50	B/W	-
51	G	-
52	Y	-
53	B/W	-
54	W	-
55	SHIELD	-

Connector No.	US
Connector Name	SEAT MEMORY SWITCH
Connector Type	TH16FW-WH



8	7	6	5	4	3	2	1
2	5	6	7	9	1	4	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	V	-
3	W	-
4	B	-
5	LG	-
6	GR	-
7	O	-
8	Y	-
9	B/W	-

Connector No.	D17
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Type	S4206FW



12	3	4
----	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	B/W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/W	-
5	GR	-
9	V	-
10	R	-
11	L	-
12	Y	-
13	BR	-
14	G	-
15	SB	-
16	G	-
17	P	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	SB	-
23	Y	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	P	-
33	L	-
35	W	-
36	L	-
37	P	-
38	SB	-
39	O	-
44	SB	-
46	B/W	-
53	L	-

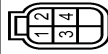
JRLWF6007GB

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

ILLUMINATION

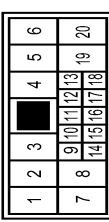
Connector No.	D58
Connector Name	ASHTRAY ILLUMINATION (REAR LH)
Connector Type	A03FW

Connector No.	D47
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	SA006FW



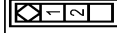
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	G	-
4	B/W	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



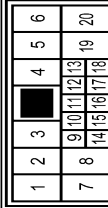
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D58
Connector Name	ASHTRAY ILLUMINATION (REAR RH)
Connector Type	A03FW



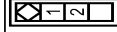
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



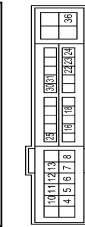
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D78
Connector Name	ASHTRAY ILLUMINATION (REAR RH)
Connector Type	A03FW



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

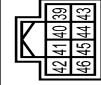
Connector No.	E5
Connector Name	FROM FA INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH20FW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	ENG_SOL
5	P	IGN_COIL
6	R	ECM_VB [With VQ37 engine]
7	SB	ECM_VB [With V556 engine]
8	R	ETC [With V556 engine]
9	L/V	A/C_COMP [With V556 engine]
10	P	A/C_COMP [With VQ37 engine]
11	V	ECM_BAT
12	B	P-GND
13	G	ABS_ECU
14	W	FUEL_PUMP [With VQ37 engine]
15	V	FUEL_PUMP [With V556 engine]
16	Y	WIPEL_AUTOSTOP
18	Y	IGN_SIGNAL
22	BR	ALT-C
23	P	DTRL_RLY
24	O	HOOD_SW

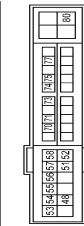
Terminal No.	Color Of Wire	Signal Name [Specification]
35	LG	SUB_ECU
39	BR	PUSHER_SW
40	BR	NP_SW [With V556 engine]
41	W	NP_SW [With VQ37 engine]
46	GR	F/L_IGN_SW

Connector No.	E5
Connector Name	FROM FA INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	CAN-L
40	L	CAN-H
41	B	S-GND
42	V	MOTOR_FAN_RLY_CONT [With V556 engine]
43	Y	MOTOR_FAN_RLY_CONT [With VQ37 engine]
44	SB	DETEN_SW
45	GR	HORN_RL [With V556 engine]
46	LG	HORN_RL [With VQ37 engine]
47	GR	START_CONT

Connector No.	E7
Connector Name	FROM FA INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH20FW-CS12-M4



Terminal No.	Color Of Wire	Signal Name [Specification]
48	P	DTRL_DELCER
51	O	WASH_MTR
52	G	INJECTOR_#1

[SHORT WHEEL BASE MODELS]

Terminal No.	Color Of Wire	Signal Name [Specification]
1B	R	-
3B	P	-
4B	G	-
5B	B	-
6B	W	- [With V037 engine]
6B	Y	- [With V456 engine]
7B	Y	-
8B	R	-
9B		

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

ILLUMINATION

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	LG	-
11C	LG	-
12C	O	-
6C	R	-
7C	B	-
8C	B	-
9C	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

14	L	-
15	V	-
16	B	-
17	GR	-
18	V	-
20	SB	-
21	BR	-
22	L	-
23	P	-
27	SHIELD	-
28	V	-
29	SB	-
31	BG	-
32	P	-
33	R	-
34	BG	-
36	V	-
37	G	-
41	BR	-
44	BR	-
45	Y	-
46	BG	-
47	V	-
48	G	-
49	BG	-
50	W	-
54	W	-
55	G	-
60	GR	-
62	LG	-
63	BR	-
64	L	-
65	R	-
66	P	-
67	L	-
68	R	-
69	SHIELD	-
70	B	-
71	W	-
72	R	-
73	G	-
74	Y	-
75	B	-
76	SHIELD	-
77	B	-
78	V	-
80	G	-

82	B	-
83	BG	-
84	SB	-
85	Y	-
86	L	-
87	V	-
88	V	-
89	LG	-
90	BG	-
91	W	-
92	BG	-
93	G	-
94	Y	-
95	W	-
97	SB	-
98	R	-
99	W	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
4	BR	-
5	P	-
7	G	-
8	Y	-
9	G	-
10	V	-
11	L	-
12	GR	-
13	BR	-
14	GR	-
15	BG	-
16	V	-

17	BG	-
18	Y	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	W	-
24	V	-
25	G	-
26	BR	-
27	SB	-
28	P	-
29	L	-
30	SHIELD	-
32	L	-
33	P	-
36	BG	-
37	SB	-
41	SB	-
42	V	-
43	L	-
44	B	-
47	L	-
48	LG	-
49	BR	-
50	V	-
51	V	-
52	BG	-
54	SB	-
57	P	-
58	LG	-
59	Y	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
65	W	-
66	R	-
67	V	-
68	LG	-
69	SB	-
70	V	-
72	L	-
73	P	-
74	L	-
75	P	-
76	G	-
77	Y	-

JRLWF6010GB

ILLUMINATION

7/8	SB	-	-
7/9	W	-	-
8/1	LG	-	-
8/2	SG	-	-
8/4	B	-	-
8/5	W	-	-
8/6	G	-	-
8/7	R	-	-
8/8	G	-	-
9/1	W	-	-
9/2	G	-	-
9/6	W	-	-
9/7	BG	-	-
9/8	Y	-	-
9/9	LG	-	-

Connector No.	M10
Connector Name	DIODE
Connector Type	24335_C0902



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

Connector No.	M20
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	G	-
5	R	-
6	W	-
11	BR	-
12	R	-
15	B	-
16	SHIELD	-
17	R	-
18	P	-
19	W	-
21	B	-
22	R	- [With LCI]
22	Y	- [Without LCI]
23	L	- [With LCI]
23	SB	- [Without LCI]
24	L	- [With LCI]
27	P	-
31	V	-
33	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M22
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	-
82	P	-
83	B	-
84	B	-
85	B	-
86	B	-
87	B	-
88	B	-
89	Y	-
91	V	-
92	V	-
93	B	-
94	B	-
95	LG	-
96	BR	-
97	G	-
98	G	-
100	G	-
101	L	-
102	L	-
102	P	-
103	B	-
104	BR	-
105	R	-
107	Y	-
108	Y	-
109	BR	-
110	Y	-
112	B	-
113	P	-
114	L	-
116	B	-
117	B	- [With V456 engine]
117	B	- [With V437 engine]
118	B	-
119	LG	-

Connector No.	M23
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
121	R	-
122	V	-
123	B	-
124	B	-
126	B	-
131	SB	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
140	W	-
142	W	-
144	P	-
145	B	-
146	LG	-
147	B	-
149	B	-
150	P	-
151	L	-
152	B	-
153	W	-
154	W	-
155	W	-
157	W	-
158	R	-
159	R	-
160	SB	-

JRLWF6011GB

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

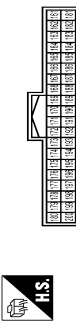
ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

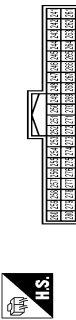
ILLUMINATION

Connector No.	M24
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



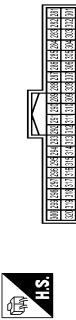
Terminal No.	Color Of Wire	Signal Name [Specification]
161	BG	-
162	BG	-
164	V	-
165	V	-
166	R	-
167	LG	-
169	R	-
171	BG	-
172	B	-
174	W	-
176	L	-
177	P	-
178	Y	-
179	Y	-
180	LG	-
182	R	-
183	R	-
184	V	-
185	P	-
186	R	-
187	Y	-
188	L	-
189	B	-
190	V	-
191	LG	-
192	B	-
193	SB	-
194	BR	-
195	SB	-
198	R	-
199	B	-
200	SB	-

Connector No.	M26
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
241	L	-
242	L	-
243	R	- [With LCC]
243	Y	- [Without LCC]
244	L	-
244	SB	- [Without LCC]
245	B	-
246	B	-
247	B	-
248	SHIELD	-
251	SHIELD	-
252	B	-
253	B	-
254	B	-
254	W	- [With heated seat]
255	B	- [With climate controlled seat]
258	R	-
259	L	-
260	BG	-
261	P	-
262	P	-
267	P	-
268	Y	-
269	G	-
270	Y	-
271	BR	-
272	G	-
273	R	-
274	R	-
275	Y	-
276	B	-
277	G	-
278	R	-
279	R	-
280	Y	-

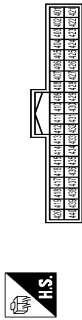
Connector No.	M27
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
281	O	-
282	BG	-
283	BG	-
284	BG	-
286	W	-
287	Y	-
288	W	-
289	SHIELD	-
290	B	-
291	SHIELD	-
292	B	-
293	B	-
294	B	-
295	B	-
296	GR	-
298	B	-
299	L	-
300	W	-
301	R	-
302	R	-
303	R	-
304	SHIELD	-
305	P	-
306	V	-
309	G	-
310	R	-
311	W	-
312	B	-
313	B	-
314	Y	-
315	G	-
316	R	-
317	W	-
318	SHIELD	-
319	V	-

320	W	-
-----	---	---

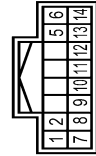
Connector No.	M30
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
417	LG	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	V	-
429	P	-
430	LG	-
431	B	-
432	Y	-
435	V	-
436	BG	-
437	B	-
438	P	-
439	L	-
440	B	-

ILLUMINATION

Connector No.	M53
Connector Name	COMBINATION SWITCH
Connector Type	TH15FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	FR WASHER (-)
2	SB	OUTPUT 4
5	L	OUTPUT 3
6	B	GND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M55
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH05F4-DS-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
23	R	-
28	Y	-
29	Y	-
30	Y	-

Connector No.	M56
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH05F2-1V



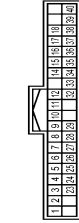
Terminal No.	Color Of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	B	-
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH05FBR



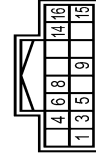
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	W	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	BG	IGNITION SIGNAL
3	GR	VEHICLE SPEED SIGNAL (2-PULSE)
4	R	VEHICLE SPEED SIGNAL (8-PULSE)
5	W	ILLUMINATION CONTROL SIGNAL
6	B	METER CONTROL SWITCH GROUND
7	SB	ENTER SWITCH SIGNAL
8	LG	SELECT SWITCH SIGNAL
9	G	ILLUMINATION CONTROL SWITCH SIGNAL (+)
10	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)
11	L	TRIP RESET SWITCH SIGNAL
12	B	GROUND
14	L	CAN-H
15	P	AIR BAG SIGNAL
16	G	LED HEADLAMP (HI) WARNING SIGNAL
17	G	LED HEADLAMP (LO) WARNING SIGNAL
18	B	LED BRAKE LIGHT SIGNAL
19	B	FUEL LEVEL SENSOR GROUND
24	B	ALTERNATOR SIGNAL
25	W	PARKING BRAKE SWITCH SIGNAL
26	V	WASHER FLUID LEVEL SWITCH SIGNAL
27	V	SECURITY SIGNAL
28	G	WASHER LEVEL SWITCH SIGNAL
29	L	PADDLE SHIFTER SHIFT DOWN SIGNAL
32	G	PADDLE SHIFTER SHIFT UP SIGNAL
33	BG	FUEL LEVEL SENSOR SIGNAL
34	G	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
35	W	PASSENGER SEAT BELT WARNING SIGNAL
36	G	NON-MANUAL MODE SIGNAL
37	G	MANUAL MODE SHIFT DOWN SIGNAL
38	V	MANUAL MODE SHIFT UP SIGNAL
39	L	MANUAL MODE SIGNAL
40	W	MANUAL MODE SIGNAL

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
4	R	ILL
5	B	AV COMM (H)
6	SB	AV COMM (L)
8	LG	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	AIR BAG CUT OFF
15	R	HAZARD ON
16	G	HAZARD ON

JRLWF6013GB

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

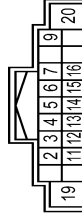
ILLUMINATION

Connector No.	M74
Connector Name	CLOCK
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	B	GROUND
3	R	ILLUMINATION (+)
4	B	ILLUMINATION (-)

Connector No.	M81
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	GR	SOUND SIGNAL REAR LH (+)
5	G	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC POWER SUPPLY
9	SB	ILLUMINATION
11	BR	SOUND SIGNAL FRONT RH (+)
12	R	SOUND SIGNAL FRONT RH (-)
13	P	SOUND SIGNAL REAR RH (+)
14	V	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M82
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	B	SIGNAL GND
38	G	HP
39	Y	COMM (DSP-XCOM)
40	R	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	W	RGB SYNC
43	R	RGB (R-RED) SIGNAL
44	B	RGB (G-GREEN) SIGNAL
45	W	RGB (B-BLUE) SIGNAL
46	V	COMPOSITE IMAGE GND
47	SB	COMPOSITE IMAGE SIGNAL
48	L	INVERTER VCC
49	LG	INVERTER GND
50	BR	COMM (CODES-DSP)
51	SHIELD	SHIELD
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TK02FBR



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

Connector No.	M92
Connector Name	WIRE TO WIRE
Connector Type	TK02M8B-P



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

Connector No.	M93
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M94
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	W	OUTPUT
3	B	GND

Connector No.	M105
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	LG	-
6	P	-
7	L	-
8	P	-
9	B	-
10	W	-
11	W	-
12	SB	-
14	SB	-
15	BR	-
16	V	-
18	G	-
22	BG	-
23	B	-
25	W	-

ILLUMINATION

30	R	-
31	BR	-
32	B	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



1	2	3
4	5	6
7	8	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	R	-
8	L	-

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



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

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

4	R	-
5	L	-
6	B	-
8	BR	-
9	S	-
10	V	-
11	W	-
12	RR	-
13	G	-
14	L	-
20	V	-
21	R	-
22	G	-
23	L	-
24	LG	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	-
15	Y	- [Without ADAS]
17	GR	- [With ADAS]
18	P	-
19	BR	-
20	GR	-
21	Y	-
22	LG	-
23	R	-
24	BG	-

25	BG	-
26	W	-
27	L	-
28	P	-
29	B	-
30	G	-
31	Y	-
32	W	-
34	V	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	BG	- [With heated seat]
46	L	- [With climate controlled seat]
47	G	- [With climate controlled seat]
47	GR	- [With heated seat]
48	V	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	W	-
56	B	-
57	G	-
58	R	-
59	W	-
61	LG	-
62	V	-
63	R	-
64	SB	-
65	L	-
67	Y	-
68	SB	-
69	B	-
71	L	-
72	L	-
73	P	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	L	-
80	G	-
81	BG	-
82	BR	-
83	GR	-
84	V	-
85	LG	-

86	V	-
87	R	-
88	Y	-
89	BR	-
90	P	-
91	Y	-
92	G	-
93	G	- [With heated seat]
93	W	- [With climate controlled seat]
94	V	-
96	W	-
97	Y	-
98	BR	-
99	G	-
100	Y	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PFI-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR WINDOW DEFSW CONT
2	BR	COMBI SW INDIT 1
3	SP	COMBI SW INDIT 2
4	G	COMBI SW INDIT 3
5	G	COMBI SW INDIT 2
6	P	COMBI SW INDIT 1
8	V	POWER WINDOW SW COMM
9	P	STOP LAMP SW 1
11	R	RAIN SENSOR SERIAL LINK
14	W	OPTICAL SENSOR
16	SB	DIMMER SIGNAL
17	Y	SENSOR PWR SPPLY
18	B	RECEIVER / SENSOR GND
19	V	TURN SIG RH OUTPUT (FRONT)
20	G	TURN SIG LH OUTPUT (FRONT)
21	P	NATS ANT AMP
22	GR	KYLS ENT RECEIVER BSI
23	G	SECURITY IND CONT
24	L	DONGLE LINK
25	G	NATS ANT AMP

JRLWF6015GB

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
26	G	L-KEY IDENTIFICATION
27	G	LOCK SW
28	G	TR LID OPEN SW
31	W	DR DOOR UNLK SENSOR
32	BR	COMB SW OUTPUT 5
33	R	COMB SW OUTPUT 4
34	V	COMB SW OUTPUT 3
35	Y	COMB SW OUTPUT 2
36	LG	COMB SW OUTPUT 1
37	R	P POSITION
39	L	CAN-H
40	P	CAN-L

Connector No.	Connector Name	Connector Type
M121	BCM (BODY CONTROL MODULE)	FE409PW-FH46-SA



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

Terminal No.	Color Of Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	W	TRUNK LID OPEN REQUEST STATUS
45	GR	TR LID OPEN REQUEST SW
46	GR	PASSENGER DOOR SW
47	LG	REAR RH DOOR SW
48	P	DRIVER DOOR SW
49	SR	REAR LH DOOR SW
51	BG	TR ROOM LAMP CONT
53	LG	TR LID OPEN REQ SW
55	BR	TRUNK LID OPEN REQUEST
		RR DOOR UNLK OUTPUT

Connector No.	Connector Name	Connector Type
M122	BCM (BODY CONTROL MODULE)	FE409PW-FH46-SA



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

Terminal No.	Color Of Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	AIR BAG SIGNAL
59	G	PASS DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP TIMER CONT
65	V	ALL DOOR FLID LOCK OUTPUT
66	LG	DR DOOR FLID UNLK OUTPUT
67	B	GN
68	O	PW PWR SPLY (IGN)
69	Y	PW PWR SPLY (BAT)
70	W	BAT (F/L)

Connector No.	Connector Name	Connector Type
M123	BCM (BODY CONTROL MODULE)	TH409PW-NH



71	72	73	74	75	76	77	78
79	80	81	82	83	84	85	86

Terminal No.	Color Of Wire	Signal Name [Specification]
71	BR	KYLS ENT RECEIVER COMM
72	B	OUTIS HD LAMP OUTPUT
73	V	ON IND
75	G	DR DOOR REQ SW
76	BR	PUSH SW
78	BR	DRIVER DOOR ANT+

Connector No.	Connector Name	Connector Type
M135	WIRE TO WIRE	TH43PW-NH



18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	BG	-
5	L	- [With heated seat]
6	V	- [With climate controlled seat]
7	GR	- [With heated seat]
8	P	- [With climate controlled seat]
9	SR	-
10	G	- [With climate controlled seat]
11	GR	- [With heated seat]
12	BG	- [With heated seat]
13	L	- [With climate controlled seat]
14	Y	-
15	W	-
16	L	-
17	G	-
18	P	- [With heated seat]
19	W	- [With climate controlled seat]
20	BR	-
21	GR	-
22	B	-
23	W	- [With heated seat]
24	BG	- [With climate controlled seat]
25	V	-
26	B	- [With heated seat]
27	LG	- [With climate controlled seat]
28	R	- [With heated seat]
29	SR	- [With climate controlled seat]
30	B	- [With heated seat]
31	P	- [With climate controlled seat]
32	B	- [With climate controlled seat]
33	V	-
34	B	-
35	B	-
36	B	-
37	V	-
38	L	-

Connector No.	Connector Name	Connector Type
M132	CIGARETTE LIGHTER SOCKET	NS03PW-CS

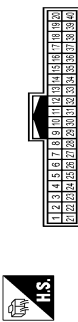


3	2	1
---	---	---

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

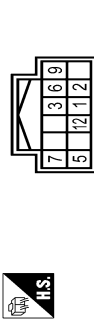
ILLUMINATION

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH400W-NH



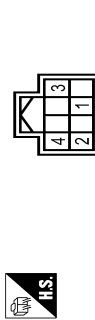
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	R	-
6	BR	-
7	L	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	SB	-
14	SB	-
15	BR	-
16	V	-
18	G	-
22	BG	-
23	B	-
24	R	-
25	R	-
26	R	-
27	BR	-
28	L	-
29	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M183
Connector Name	TRIPLE SWITCH
Connector Type	TH12P2-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	- [With LCC]
3	SB	- [Without LCC]
5	B	-
6	R	-
7	B	-
8	R	-
9	W	-
12	L	-

Connector No.	M187
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TH8P2-NH



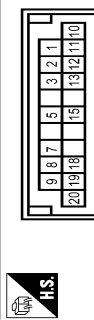
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	R	-
4	B	-

Connector No.	M188
Connector Name	TWIN SWITCH
Connector Type	TH12FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-
3	B	-
5	BG	-
6	B	-
8	W	-
10	B	-

Connector No.	M189
Connector Name	JOINT CONNECTOR-M01
Connector Type	NR20F-LCC



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

19	LG
20	LG

Connector No.	M185
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK40PW



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

Connector No.	M199
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK05PBR



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

JRLWF6017GB

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

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

ILLUMINATION

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH22NWN-NH



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 [Specification]
1	Y	-
2	BG	-
5	V	-
6	P	-
7	SB	-
10	G	-
11	L	-
12	R	-
13	W	-
14	L	-
15	G	-
16	Y	-
17	W	-
18	BR	-
19	GR	-
20	B	-
21	R	-
22	B	-
23	BG	-
24	V	-
25	B	-
26	B	-
27	B	- [With climate controlled seat]
27	R	- [With heated seat]
28	B	-
29	B	-
30	B	-
32	R	-

Connector No.	M202
Connector Name	A/T SHIFT SELECTOR ILLUMINATION
Connector Type	TH03FBB-B



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 [Specification]
1	R	-
2	B	-

Connector No.	M203
Connector Name	DRIVE MODE SELECT SWITCH
Connector Type	TH10PB-NH



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 [Specification]
1	W	-
2	L	-
3	G	-
4	Y	-
6	B	-
7	B	-
9	R	-

Connector No.	M204
Connector Name	CLIMATE CONTROLLED GAS SWITCH (DRIVER SIDE)
Connector Type	TK08FW



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 [Specification]
1	BG	-
2	V	-
3	P	-
4	BR	-
5	GR	-
6	B	-
7	R	-
8	B	-

Connector No.	M205
Connector Name	CLIMATE CONTROLLED GAS SWITCH (PASSENGER SIDE)
Connector Type	TK08BR



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 [Specification]
1	SB	-
2	G	-
3	L	-
4	BG	-
5	V	-
6	B	-
7	R	-
8	B	-

Connector No.	M206
Connector Name	WIRE TO WIRE
Connector Type	NS08MHC-CS



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 [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

Connector No.	M207
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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 [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

ILLUMINATION

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH23FW-NH



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ILLUMINATION

< WIRING DIAGRAM >

[SHORT WHEEL BASE MODELS]

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	W	-
4	R	-
5	L	-
6	B	-
7	R	-
8	P	-
9	B	-
10	V	-
11	BR	-
12	G	-
13	L	-
20	R	-
21	R	-
22	G	-
23	L	-
24	LG	-

Connector No.	RE1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	L	-
18	LG	-
19	R	-

20	G	-
21	S	-
22	S	-
23	GB	-
24	P	-

Connector No.	RI5
Connector Name	MAP LAMP
Connector Type	TX08FGY



16	5	4	3	2	1
----	---	---	---	---	---

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

Connector No.	R22
Connector Name	TELEMATICS SWITCH
Connector Type	TH08FW-NH



3	2	1
7	6	5

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

JRLWF6020GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[SHORT WHEEL BASE MODELS]

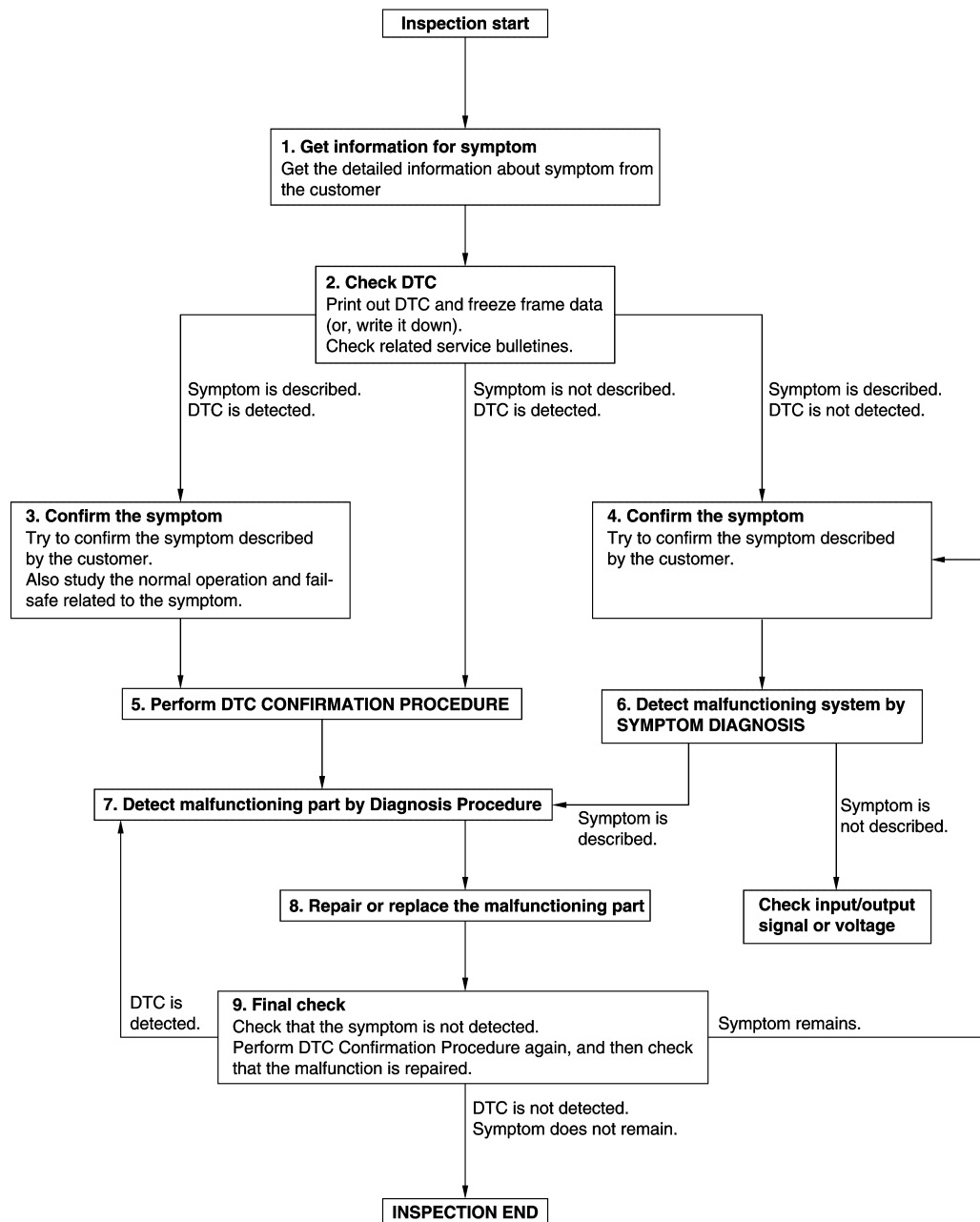
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012356067

OVERALL SEQUENCE



DETAILED FLOW

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[SHORT WHEEL BASE MODELS]

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 >

[SHORT WHEEL BASE MODELS]

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.

A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

P

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000012356068

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

Component Function Check

INFOID:000000012356069

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Personal lamp
 - Map lamp
 - Foot lamp
 - Trunk room lamp
 - Step lamp
 - Outside handle lamp
 - Vanity mirror 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 the interior room lamp turn ON/OFF?

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

NO >> Refer to [INL-62, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012356070

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - Personal lamp
 - Map lamp
 - Foot lamp (both sides)
 - Trunk room lamp
 - Step lamp (ALL)
 - Outside handle lamp (both sides)
 - Vanity mirror lamp (both sides)
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				
M122	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

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.

BCM		Each interior room lamp		Continuity	
Connector	Terminal	Connector	Terminal		
M122	56	Personal lamp	R14	1	Existed
		Map lamp	R15		
		Foot lamp (driver side)	M186		
		Foot lamp (passenger side)	M114		
		Trunk room lamp	B47		
		Step lamp (driver side)	D12		
		Step lamp (passenger side)	D42		
		Step lamp (Rear LH)	D57		
		Step lamp (Rear RH)	D77		
		Outside handle lamp (driver side)	D17	3	
		Outside handle lamp (passenger side)	D47		
		Vanity mirror lamp (driver side)	R12	2	
		Vanity mirror lamp (passenger side)	R13		

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		
M122	56		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).
 NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000012356071

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:0000000012356072

NOTE:

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

- Interior room lamp power supply
- Map lamp bulb
- Personal lamp bulb
- Foot 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-64, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356073

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

ⓅCONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp, foot lamp and personal 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				
M122	63		INT LAMP	On	Existed
				Off	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-95, "Removal and Installation"](#).

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

BCM		Foot lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	Driver side	M186	Existed
		Passenger side	M114	

4. Check continuity between BCM harness connector and map lamp harness connector.

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	R15	2	Existed

5. Check continuity between personal lamp harness connector and map lamp harness connector.

Personal lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
R14	3	R15	4	Existed

Is the inspection result normal?

YES >> Replace map lamp, personal lamp or foot lamp.

NO >> Repair or replace harnesses.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector, map lamp connector, personal lamp connector and foot lamp connector.
- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	63		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

INL

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:000000012356074

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

Diagnosis Procedure

INFOID:000000012356075

NOTE:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal		Trunk lid	Open	Existed
M121	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-95. "Removal and Installation"](#).

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M121	49	B47	2	Existed

Is the inspection result normal?

YES >> Replace trunk room lamp.

NO >> Repair or replace harnesses.

3.CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		Not existed
M121	49		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

STEP LAMP CIRCUIT

Description

INFOID:0000000012356076

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

Component Function Check

INFOID:0000000012356077

NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT ACTIVE TEST

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

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

NO >> Refer to [INL-67, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356078

1.CHECK STEP LAMP OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove the step lamp bulbs (ALL).
3. Turn ignition switch ON.
4. Select "STEP LAMP TEST" 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		STEP LAMP TEST	On	Existed
M122	62			Off	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-95, "Removal and Installation"](#).

2.CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M122	62	Driver side	D12	2	Existed
		Passenger side	D42		
		Rear LH	D57		
		Rear RH	D77		

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

Is the inspection result normal?

YES >> Replace step lamp.

NO >> Repair or replace harnesses.

3. CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M122	62		Not existed

Is the inspection result normal?

YES >> Repair or replace harnesses.

NO >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

OUTSIDE HANDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP CIRCUIT

Description

INFOID:0000000012356079

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

Diagnosis Procedure

INFOID:0000000012356080

NOTE:

Before performing the diagnosis, check that the interior room lamp power supply is normal.

1.CHECK OUTSIDE HANDLE LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal				
M123	72		Any door	Open	Existed
				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-95. "Removal and Installation"](#).

2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

Check continuity between BCM harness connector and outside handle lamp harness connector.

BCM		Outside Handle lamp			Continuity
Connector	Terminal	Connector		Terminal	
M123	72	Driver side	D17	4	Existed
		Passenger side	D47		

Is the inspection result normal?

YES >> Replace outside handle lamp.

NO >> Repair or replace harnesses.

3.CHECK OUTSIDE HANDLE LAMP SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000012356081

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

Component Function Check

INFOID:0000000012356082

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

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 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-70, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356083

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 items, check voltage between push-button ignition switch harness connector and ground.

(+)Push-button ignition switch		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M50	3	Ground	ENGINE SW ILLUMI	ON12 V
				OFF0 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 ignition switch OFF.
2. Disconnect BCM connector and push-button ignition switch 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	
M123	90	M50	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harnesses.

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

Check continuity between BCM harness connector and ground.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

BCM		Ground	Continuity
Connector	Terminal		
M123	90		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT-1

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

(+)		(-)	Voltage (Approx.)
BCM			
Connector	Terminal		
M123	92	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M50	2	M123	92	Existed

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M50	2		Not existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000012356084

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 • Personal lamp • Vanity mirror lamp • Foot lamp • Step lamp • Outside handle lamp • Trunk room lamp	• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-62 .
• 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-87 . Interior room lamp control circuit Refer to INL-64 .
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-17 .
• Outside handle lamp does not turn ON even though the door is open. • Outside handle lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and outside handle lamp • BCM	Door switch circuit Refer to DLK-87 . Outside handle lamp circuit Refer to INL-69 .
• Trunk room lamp does not turn ON even though the trunk lid is open. (It turns ON when turning the trunk room lamp ON.) • Trunk room lamp or does not turn OFF even though the trunk lid is closed.	• Harness between BCM and trunk closure assembly • Harness between BCM and trunk room lamp • BCM	Trunk lid open signal circuit Refer to DLK-101 . Trunk room lamp circuit Refer to INL-66 .
• Step lamps (ALL) do not turn ON. • Step lamps (ALL) do not turn OFF.	• Harness between BCM and each step lamp • BCM	Door switch circuit Refer to DLK-87 . Step lamp circuit Refer to INL-67 .
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-70 .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-95 .

MAP LAMP

< REMOVAL AND INSTALLATION >

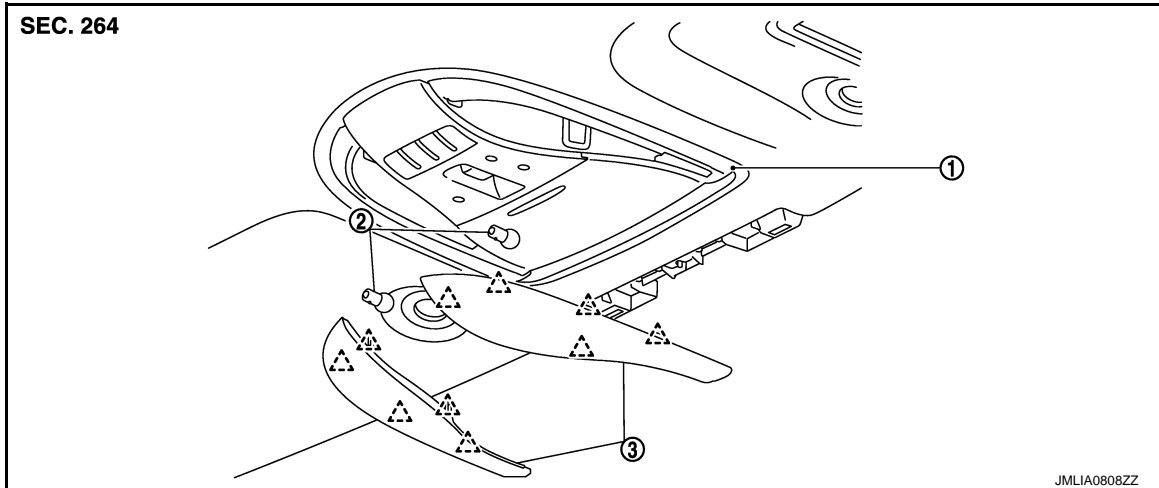
[SHORT WHEEL BASE MODELS]

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000012356085



1. Map lamp assembly

2. Bulb

3. Lens

△ : Pawl

Removal and Installation

INFOID:0000000012356086

CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

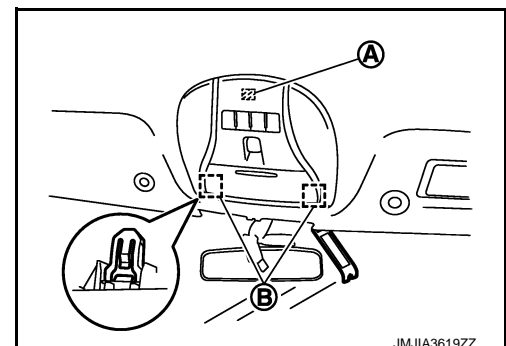
Removal

1. Remove front and rear assist grips (LH and RH). Refer to [INT-57, "Removal and Installation"](#).
2. Remove center pillar upper garnish (LH and RH). Refer to [INT-46, "CENTER PILLAR UPPER GARNISH: Removal and Installation"](#).
3. Remove partially front body side welt (headlining side).
4. Remove front pillar garnish. Refer to [INT-39, "FRONT PILLAR GARNISH : Removal and Installation"](#).
5. Remove front camera finisher. Refer to [INT-57, "Removal and Installation"](#).
6. Remove sun visor assembly (LH and RH). Refer to [INT-57, "Removal and Installation"](#).
7. Remove front roof finisher. Refer to [INT-57, "Removal and Installation"](#).
8. Remove sun visor holders (LH and RH). Refer to [INT-57, "Removal and Installation"](#).
9. Open sunroof glass.
10. Insert a remover tool between the headlining and roof panel, and disengage metal clips (B). Pull down map lamp assembly to disengage joint dual-lock fastener (A).

CAUTION:

- When removing, always use a remover tool that is made of plastic.
- Map lamp is crimped from back of headlining.
- To prevent damage of the sunroof, hold the sunroof with a rope or tape before removal operation.

□ : Metal clip



11. Remove map lamp assembly.

NOTE:

MAP LAMP

< REMOVAL AND INSTALLATION >

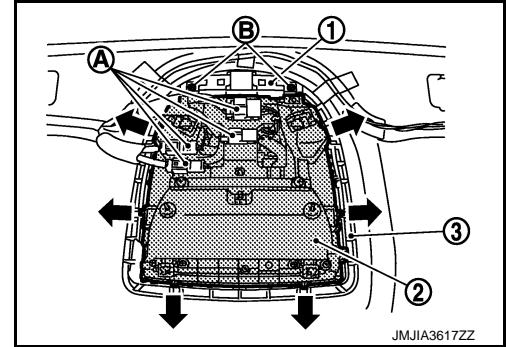
[SHORT WHEEL BASE MODELS]

Operate from the opening part of sunroof to ease the work.

- Remove harness connector (A).
- Remove screws (B), and then remove map lamp bracket (1).
- Remove map lamp back plate (3) from headlining while pressing engagement of each pawls in the direction as shown in the figure.

CAUTION:

When removing, support map lamp assembly (2) by hand so that it does not drop during the operation.



Installation

Install in the reverse order of removal.

Replacement


INFOID:0000000012356087

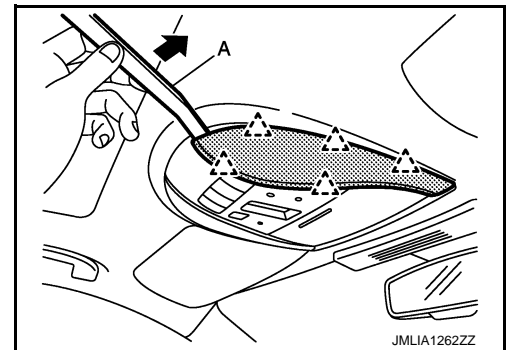
CAUTION:

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

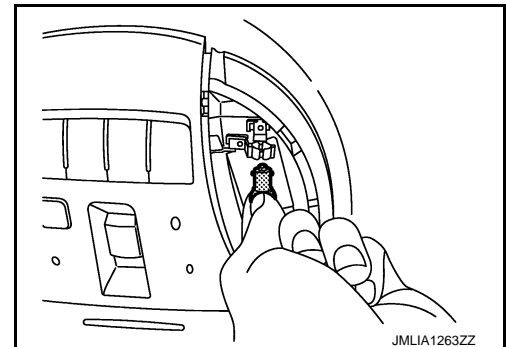
MAP LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

 : Pawl



2. Rotate the bulb clockwise or counterclockwise by 90° and remove the bulb as shown in the figure.



VANITY MIRROR LAMP

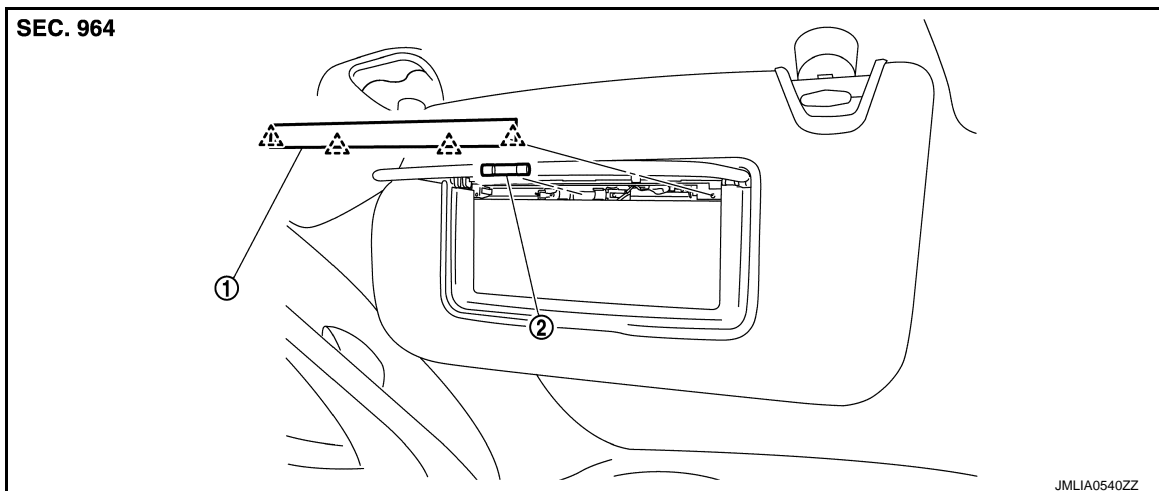
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

VANITY MIRROR LAMP

Exploded View

INFOID:0000000012356088



1. Lens

2. Bulb

△ : Pawl

Replacement

INFOID:0000000012356089

CAUTION:

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

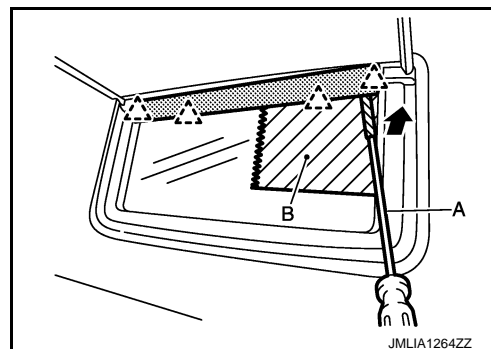
VANITY MIRROR LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

△ : Pawl

CAUTION:

- Use a remover tool wrapped in tape.
- Apply protective tape (B) around the vanity mirror to protect the surface from damage.



2. Remove the bulb.

CIGARETTE LIGHTER ILLUMINATION

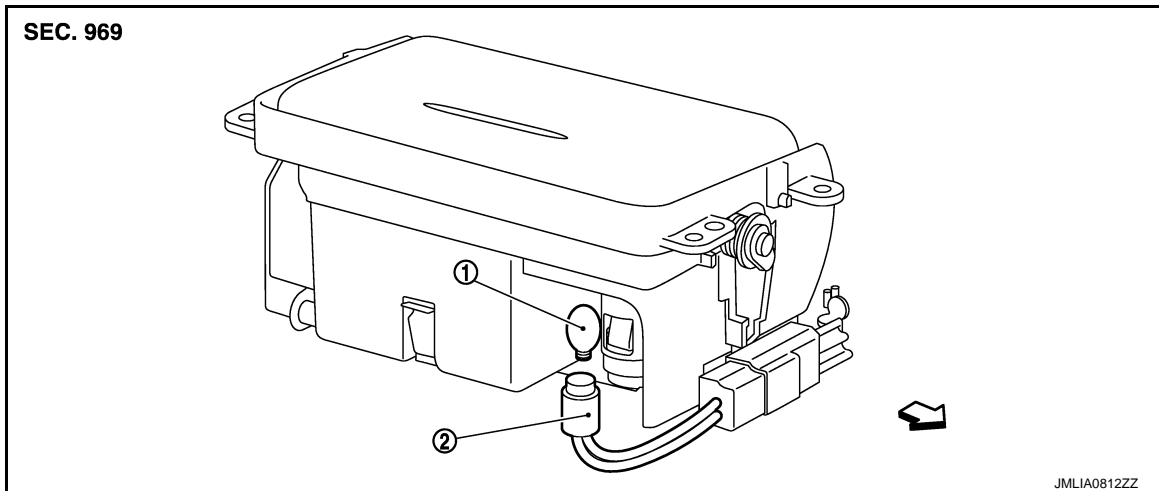
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

CIGARETTE LIGHTER ILLUMINATION

Exploded View

INFOID:0000000012356090



1. Bulb

2. Bulb socket

⇐ : Vehicle front

Removal and Installation

INFOID:0000000012356091

- Remove console finisher assembly. Refer to [IP-24, "Removal and Installation"](#).
- Remove ashtray assembly. Refer to [IP-24, "Removal and Installation"](#).

Replacement

INFOID:0000000012356092

CAUTION:

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

CIGARETTE LIGHTER ILLUMINATION BULB

1. Remove console finisher assembly, and then remove ashtray assembly. Refer to [IP-24, "Removal and Installation"](#).
2. Rotate bulb socket counterclockwise to unlock it.
3. Remove the bulb.

GLOVE BOX LAMP

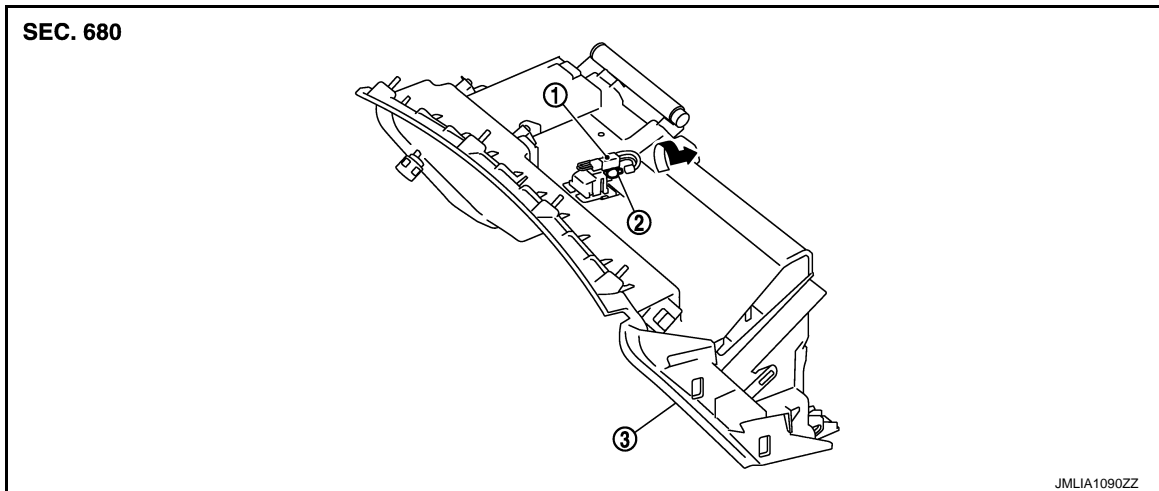
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

GLOVE BOX LAMP

Exploded View

INFOID:0000000012356093



1. Bulb socket

2. Bulb

3. Instrument lower panel RH

Removal and Installation

INFOID:0000000012356094

Refer to [IP-12, "Exploded View"](#) for the instrument lower panel RH installation or removal.

Replacement

INFOID:0000000012356095

CAUTION:

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

GLOVE BOX LAMP BULB

1. Remove instrument lower cover. Refer to [IP-13, "Removal and Installation"](#).
2. Remove glove box assembly, and then remove instrument lower panel RH. Refer to [IP-13, "Removal and Installation"](#).
3. Rotate the bulb socket counterclockwise to unlock it.
4. Remove the bulb.

FOOT LAMP

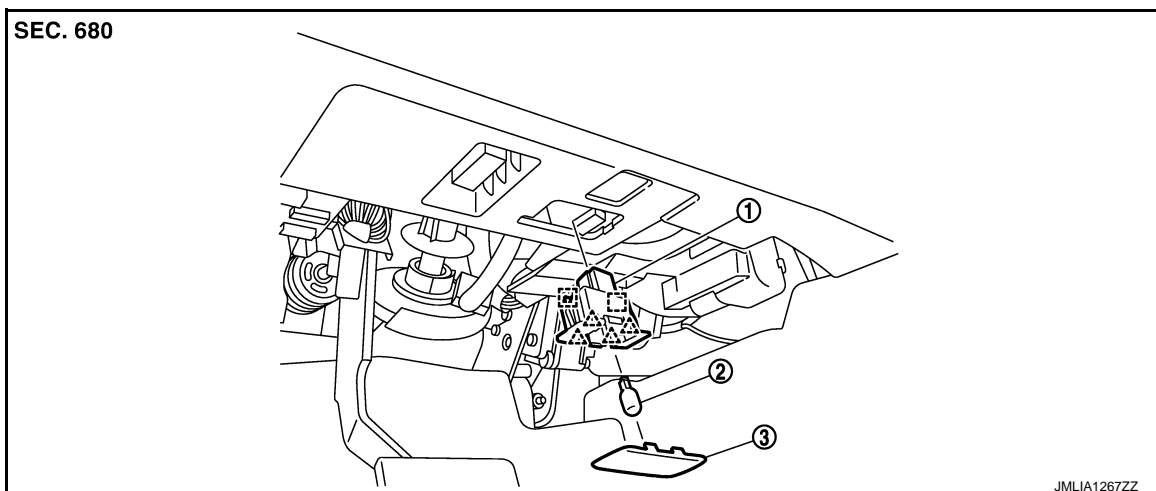
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

FOOT LAMP DRIVER SIDE

DRIVER SIDE : Exploded View


INFOID:000000012356096



1. Foot lamp case

2. Bulb

3. Lens

 : Pawl

 : Metal clip

DRIVER SIDE : Removal and Installation

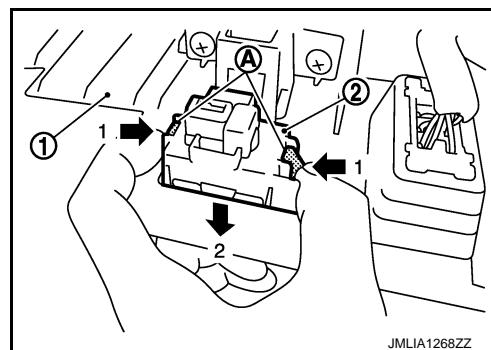
INFOID:000000012356097

CAUTION:

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

REMOVAL

1. Remove instrument lower panel. Refer to [IP-24, "Removal and Installation"](#)
2. Disconnect foot lamp harness connector.
3. Remove foot lamp case (2) downward from instrument lower panel (1) while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



INSTALLATION

Install in the reverse order of removal.

DRIVER SIDE : Replacement

INFOID:000000012356098

CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.

FOOT LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]


- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.

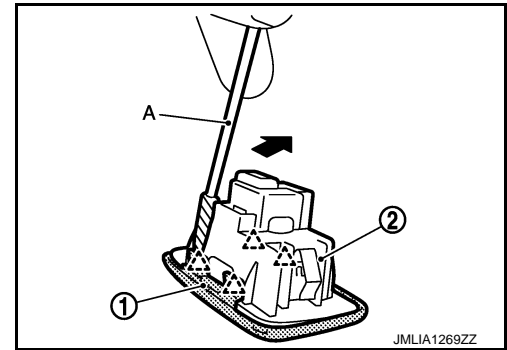
FOOT LAMP BULB

1. Remove the foot lamp assembly. Refer to [INL-78, "DRIVER SIDE : Removal and Installation"](#).
2. Remove the lens (1).
 - a. Insert a remover tool (A) into the gap between the lens and foot lamp case (2).
 - b. Disengage the lens fixing pawls, and then remove the lens.

CAUTION:

Use a remover tool wrapped in tape.

 : Pawl

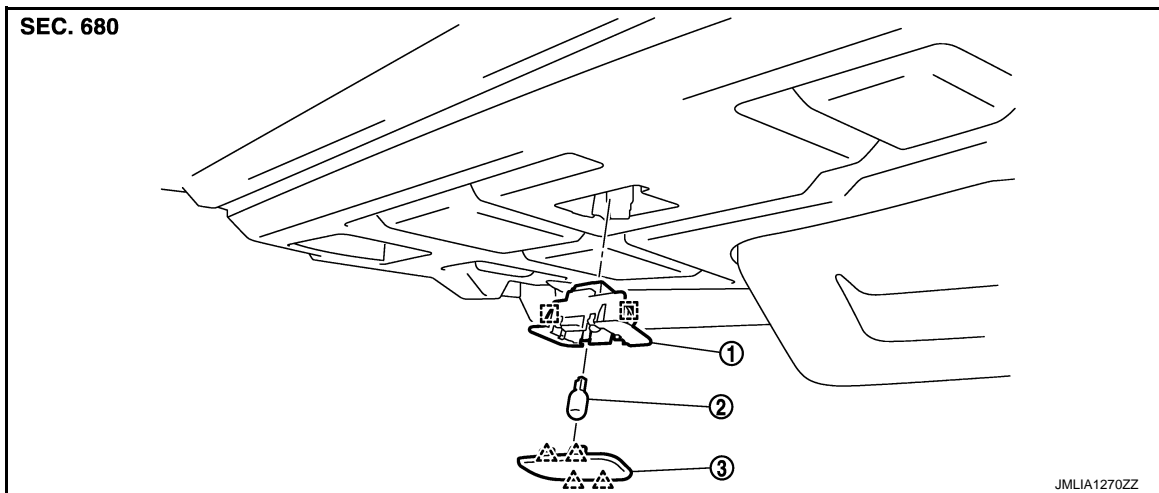


3. Remove the bulb.

PASSENGER SIDE

PASSENGER SIDE : Exploded View


INFOID:0000000012356099




1. Foot lamp case

2. Bulb

3. Lens

 : Pawl

 : Metal clip

PASSENGER SIDE : Removal and Installation

INFOID:0000000012356100

CAUTION:

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

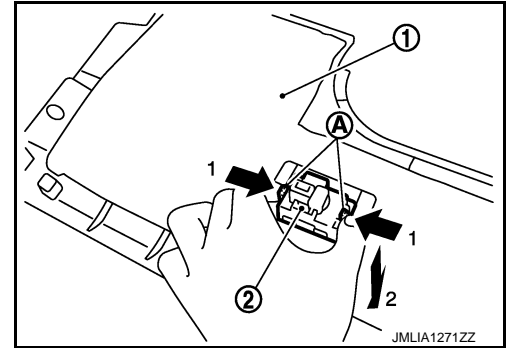
REMOVAL

FOOT LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

1. Remove instrument lower cover. Refer to [IP-24. "Removal and Installation"](#)
2. Disconnect foot lamp harness connector.
3. Remove foot lamp case (2) downward from instrument lower cover (1) while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE : Replacement

INFOID:000000012356101

CAUTION:


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

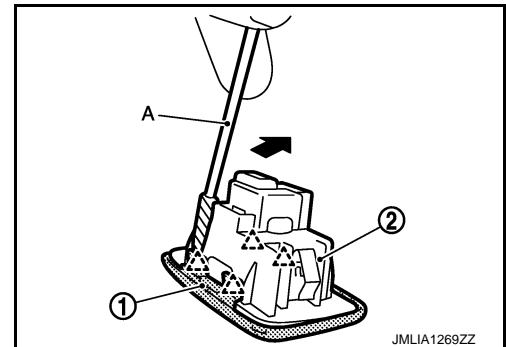
FOOT LAMP BULB

1. Remove the foot lamp assembly. Refer to [INL-79. "PASSENGER SIDE : Removal and Installation"](#).
2. Remove the lens (1).
 - a. Insert a remover tool (A) into the gap between the lens and foot lamp case (2).
 - b. Disengage the lens fixing pawls, and then remove the lens.

CAUTION:

Use a remover tool wrapped in tape.

 : Pawl



3. Remove the bulb.

STEP LAMP

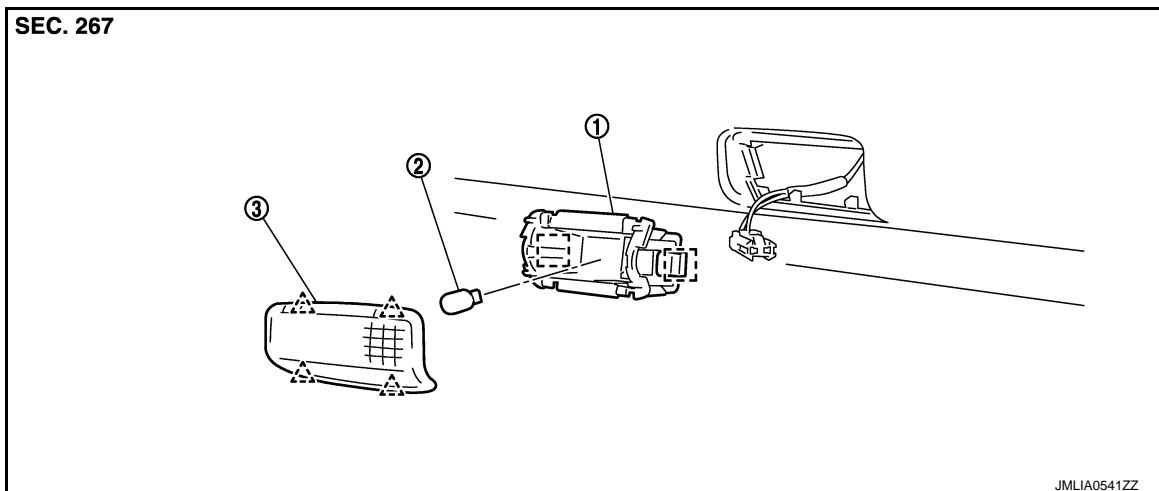
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

STEP LAMP

Exploded View

INFOID:0000000012356102



1. Step lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:0000000012356103

CAUTION:

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

REMOVAL

1. Insert any appropriate tool into the gap between the step lamp case and door finisher to remove step lamp case.
2. Disconnect step lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000012356104

CAUTION:

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

STEP LAMP BULB

1. Insert any appropriate tool into the gap between the lens to remove the lens.
2. Remove the bulb.

PERSONAL LAMP

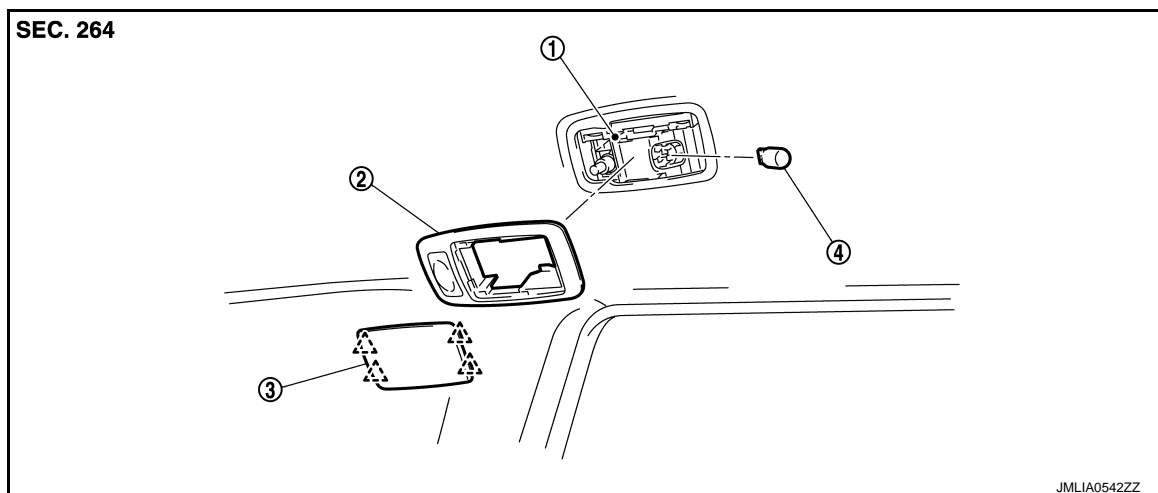
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

PERSONAL LAMP

Exploded View

INFOID:000000012356105



1. Personal lamp case

2. Personal lamp finisher

3. Lens

4. Bulb

△ : Pawl

Removal and Installation

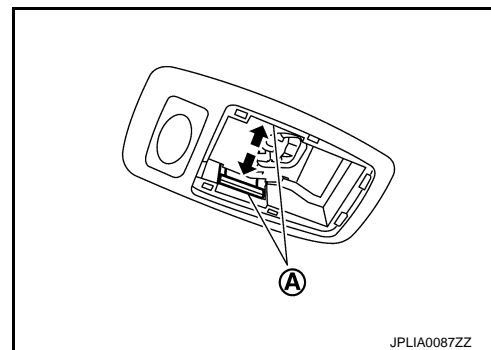
INFOID:000000012356106

CAUTION:

- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from housing for a long period of time can deteriorate performance of the lens and reflector (causing dirty or clouding). Always prepare a new bulb and have it on hand when replacing the bulb.
- Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to [INT-55, "Exploded View"](#).

REMOVAL

1. Remove headlining assembly. Refer to [INT-57, "Removal and Installation"](#).
2. Insert any appropriate tool into the gap between the lens to remove the lens.
3. Press the pawls (A) on both sides in the direction shown by the arrow in the figure using appropriate tool, and then pull out the personal lamp finisher.



4. Remove personal lamp case from headlining assembly.

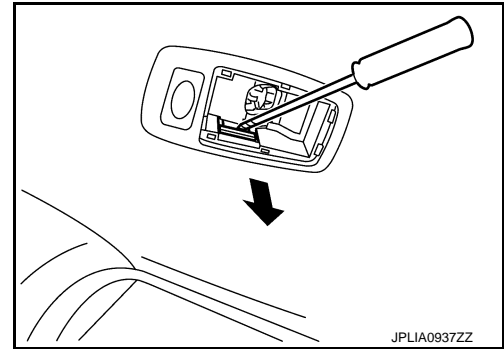
INSTALLATION

PERSONAL LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

Press the personal lamp finisher to the headlining. Pull the personal lamp case pawls in the direction shown by the arrow in the figure using appropriate tool.



Replacement

INFOID:0000000012356107

CAUTION:

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

PERSONAL LAMP BLUB

1. Insert any appropriate tool into the gap between the lens to remove the lens.
2. Remove the bulb.

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

OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP

Exploded View

INFOID:0000000012356108

Always replace outside handle lamp together with outside handle as a set, when replacing since outside handle lamp is integrated with outside handle. Refer to [DLK-212. "OUTSIDE HANDLE : Removal and Installation"](#).

TRUNK ROOM LAMP

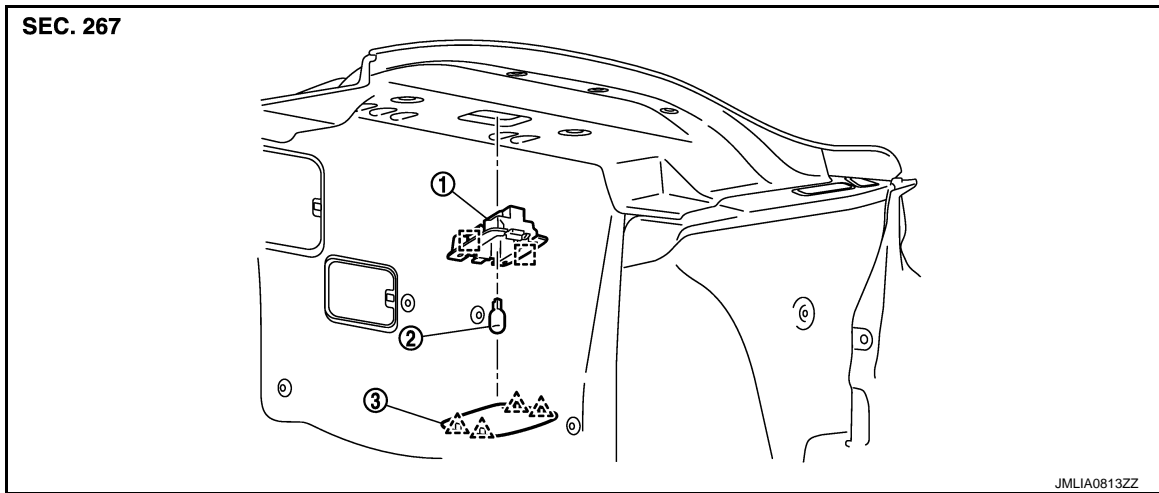
< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

TRUNK ROOM LAMP

Exploded View

INFOID:0000000012356109



1. Trunk room lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:0000000012356110

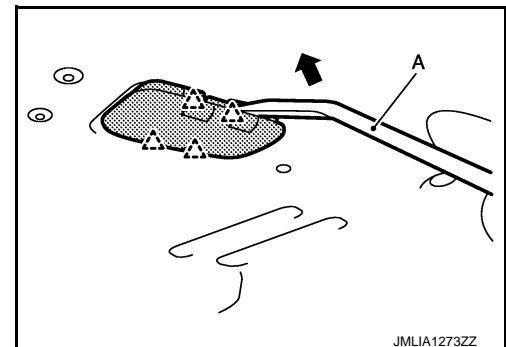
CAUTION:

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

REMOVAL

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

△ : Pawl



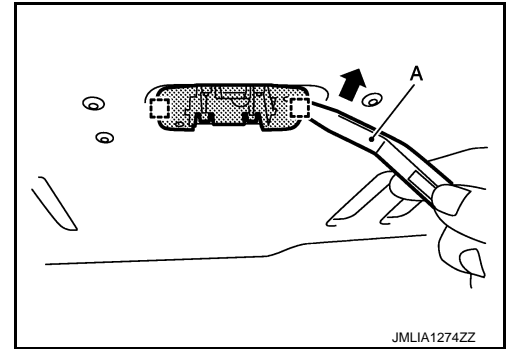
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

2. Insert a remover tool (A) into the gap between the trunk room lamp case to disengage fixing metal clips as shown by the arrow in the figure, and then remove the trunk room lamp case.

[] : Metal clip



3. Disconnect trunk room lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000012356111

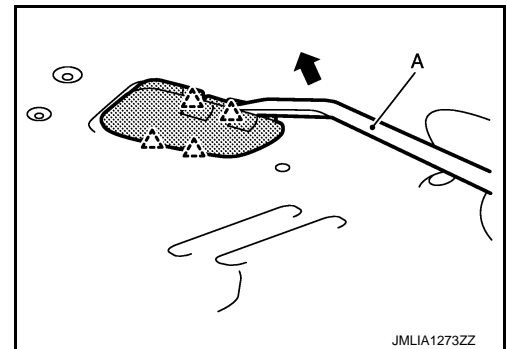
CAUTION:

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

TRUNK ROOM LAMP BULB

1. Insert a remover tool (A) into the gap between the lens to disengage fixing pawls as shown by the arrow in the figure, and then remove the lens.

[] : Pawl



2. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[SHORT WHEEL BASE MODELS]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb specifications

INFOID:0000000012356112

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	—	8
Console lamp (integrated into the map lamp assembly)	LED	—
Vanity mirror lamp	—	1.8
Cigarette lighter illumination (common use with ashtray illumination)	Wedge	1.1
Glove box lamp	Wedge	2
Foot lamp	Wedge	3.4
Step lamp	Wedge	5
Personal lamp	Wedge	8
Outside handle lamp	LED	—
Trunk room lamp	Wedge	5

A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

P

PRECAUTION

PRECAUTIONS

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

INFOID:0000000012356113

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:

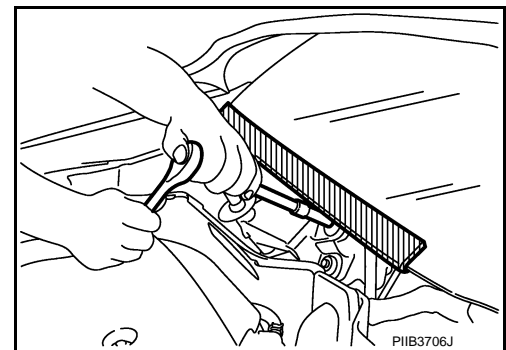
Always observe the following items for preventing accidental activation.

- 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:0000000012356114

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 Removing Battery Terminal

INFOID:0000000013011867

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.

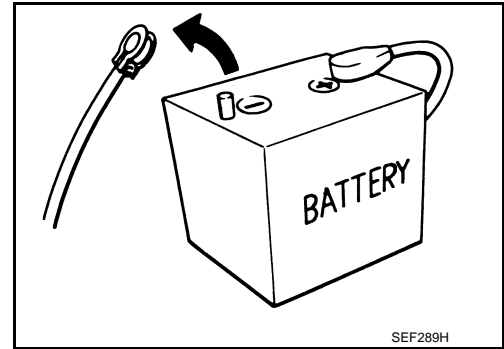
PRECAUTIONS

< PRECAUTION >

[LONG WHEEL BASE MODELS]

- 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:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
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		



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.

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

PREPARATION

< PREPARATION >

[LONG WHEEL BASE MODELS]

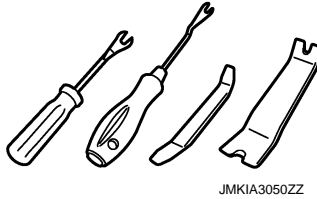
PREPARATION

PREPARATION

Commercial Service Tool

INFOID:0000000012356116

Tool name	Description
Remover tool	Removes clips, pawls and metal clips



JMKIA3050ZZ

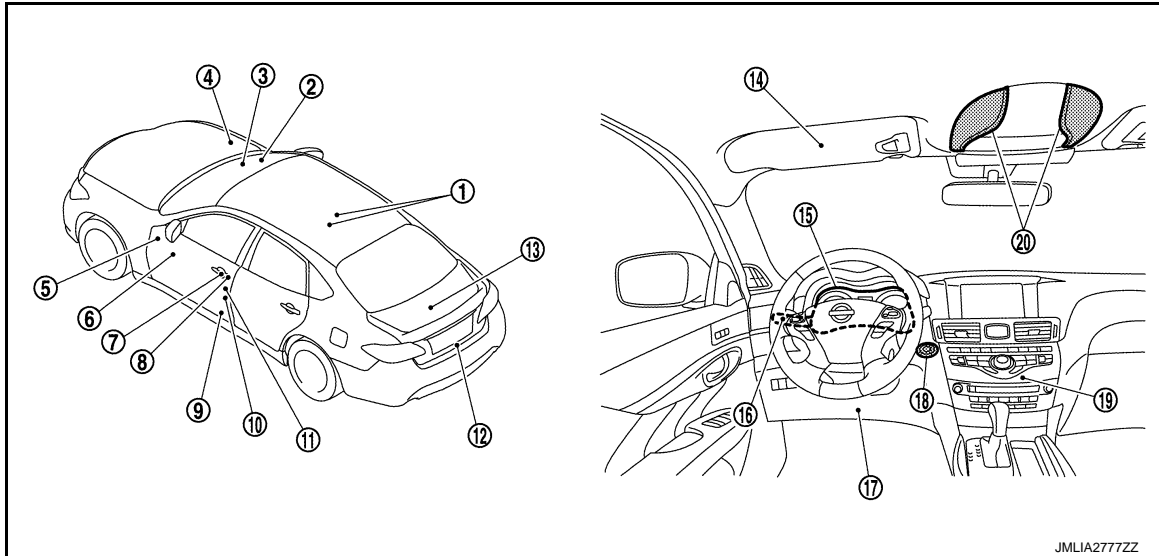
SYSTEM DESCRIPTION

COMPONENT PARTS

INTERIOR LIGHTING SYSTEM

INTERIOR LIGHTING SYSTEM : Component Parts Location

INFOID:0000000012356117



- | | | |
|--|--|---------------------------------|
| 1. Rear spot lamp | 2. Remote keyless entry receiver
Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" . | 3. Optical sensor |
| 4. IPDM E/R
Refer to PCS-5, "IPDM E/R : Component Parts Location" . | 5. BCM
Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" . | 6. Door lock and unlock switch |
| 7. Outside handle lamp | 8. Front door request switch (driver side) | 9. Step lamp |
| 10. Door switch | 11. Front door lock assembly (driver side) (unlock sensor) | 12. Trunk closure assembly |
| 13. Trunk room lamp | 14. Vanity mirror lamp | 15. Combination meter |
| 16. Combination switch | 17. Foot lamp | 18. Push-button ignition switch |
| 19. AV control unit | 20. Map lamp | |
| <ul style="list-style-type: none"> • Base audio without navigation:
Refer to AV-13, "Component Parts Location". • Bose audio with navigation: Refer to AV-150, "Component Parts Location". | | |

INTERIOR LIGHTING SYSTEM : Component Description

INFOID:0000000012356118

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 Intelligent Key.
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM : System Description" .

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

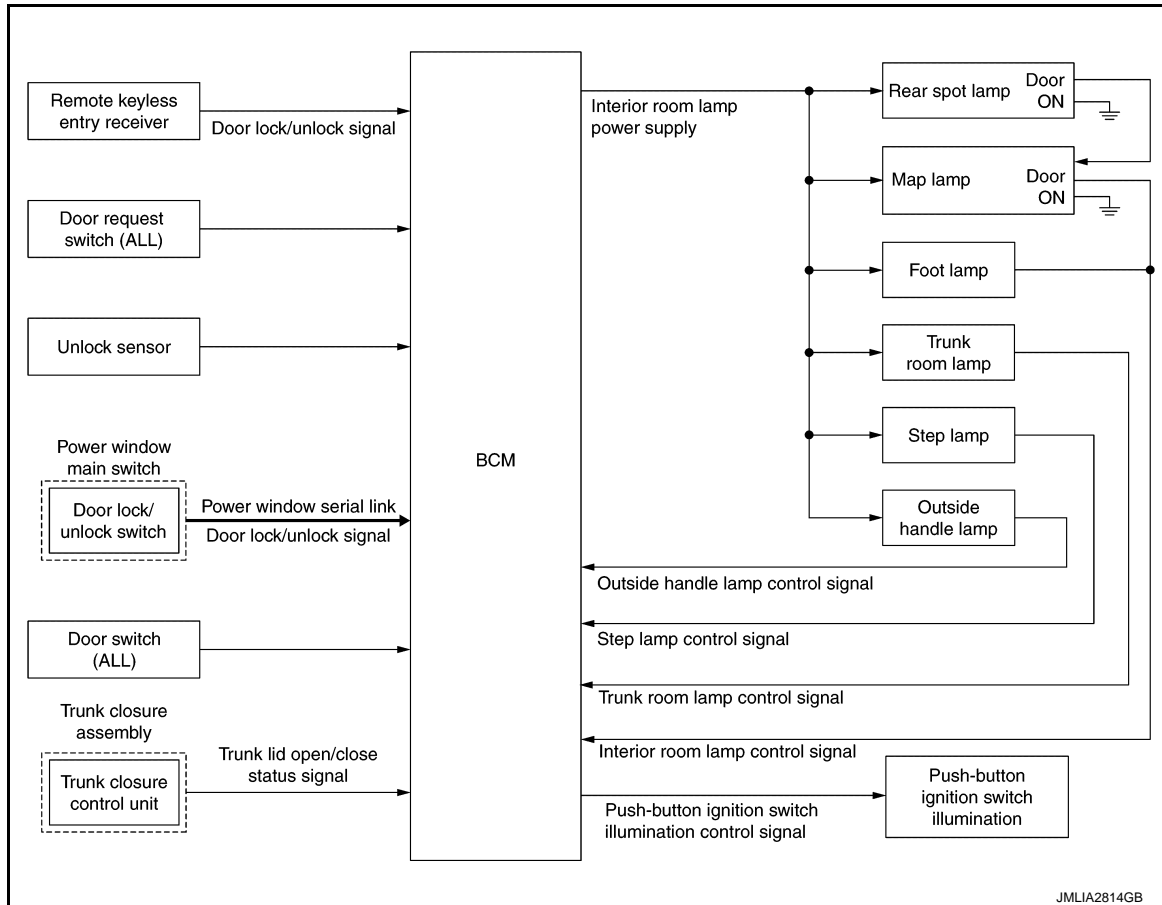
Part	Description
<ul style="list-style-type: none">• Door lock and unlock switch• Door request switch	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM.
Trunk closure assembly	Inputs the trunk lid open/close status signal to BCM.
Unlock sensor	Detects door lock condition of driver side door.
Optical sensor	Refer to EXL-12, "Optical Sensor" .

SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

INFOID:0000000012356119



INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:0000000012356120

OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*: Map lamp, foot lamp and rear spot lamp (when map lamp switch and rear spot lamp switch are in DOOR position).
- Step lamp is controlled by step lamp control function of BCM.
- Trunk room lamp is controlled by trunk room lamp control function of BCM.
- Outside handle lamp is controlled by outside handle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps and outside handle lamp are illuminated by welcome light function of Intelligent Key system. Refer to [DLK-25. "WELCOME LIGHT FUNCTION : System Description"](#).

INTERIOR ROOM LAMP TIMER CONTROL

INL

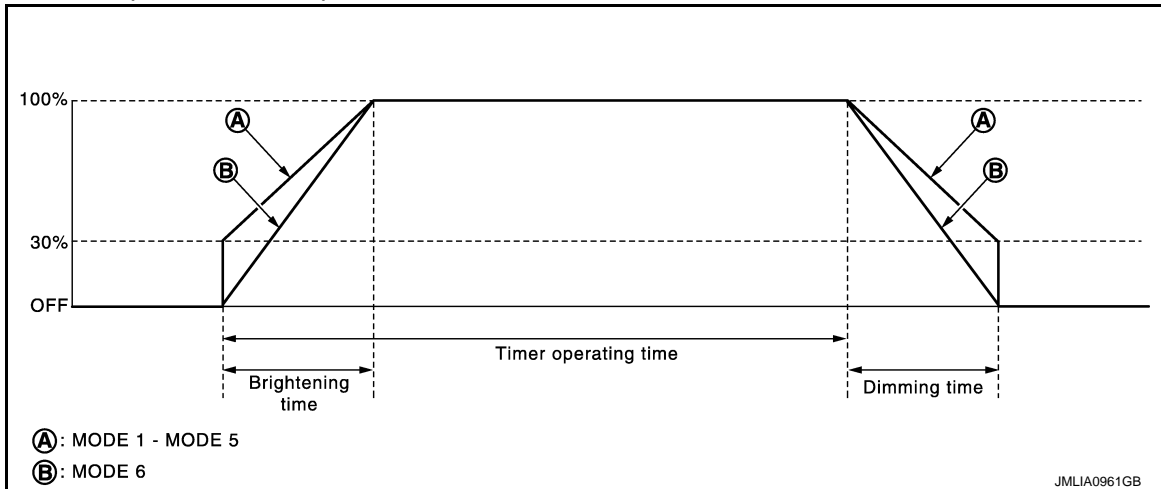
M

N

O

P

Interior Room Lamp Timer Basic Operation



NOTE:

A: Sets the interior room lamp gradual brightening and dimming time.

B: Gradually dims from 100% to 0% and gradually brightens 0% to 100% in 1 second.

- 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 timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (Remote keyless entry receiver, each door request switch, door lock/unlock switch)

NOTE:

Each function of interior room lamp timer can be set by CONSULT. Refer to [INL-101, "INT LAMP : CONSULT Function \(BCM - INT LAMP\) \(Long Wheel Base Models\)"](#).

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- When all doors are closed, and any all door unlock operation is performed or ignition switch is turned OFF, BCM brightens interior room lamp to 30% brightness and maintains 30% brightness until any door opens.
- BCM activates the interior room timer in any of the following conditions to turn the interior room lamp ON for a period of time.
 - Any door opens before all doors close.
 - Ignition switch is turned ON → OFF.
 - Any door unlock signal is detected when all doors close with ignition switch OFF.

NOTE:

The timer is restarted 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 turns the interior room lamp OFF.

- The interior room lamp timer operating time is expired with all doors closed.
- Ignition switch position is other than OFF with all doors close.
- Any door lock operation is detected with all doors close.

TRUNK ROOM LAMP CONTROL

BCM controls the trunk room lamp (ground-side) to turn ON when trunk lid is open.

STEP LAMP CONTROL

BCM controls the step lamp (ground-side) to turn ON with any door switch ON.

OUTSIDE HANDLE LAMP TIMER CONTROL

Outside Handle Lamp Timer Basic Operation

- BCM controls the ground to turn the outside handle lamp ON.
- The outside handle lamp turns ON and OFF by the outside handle lamp timer.
- BCM judges the vehicle condition with the following items. It activates the outside handle lamp timer.
 - Ignition switch status
 - Door switch signal
 - Door lock/unlock signal (remote keyless entry receiver, each door request switch)
 - Driver side door lock status

< SYSTEM DESCRIPTION >

Outside Handle Lamp ON Operation

BCM activates the outside handle lamp timer in any of the following conditions to turn the outside handle lamp ON for a period of time.

- Any door opens.
- Any door opens before all doors close.
- Ignition switch is turned ON → OFF.
- Door unlock signal by remote keyless entry receiver or each door request switch is detected.
- Driver side door is locked

NOTE:

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

Outside Handle Lamp OFF Operation

BCM stops the timer in any of the following conditions to turn the outside handle lamp OFF.

- The outside handle lamp timer operating time is expired.
- The interior room lamp OFF conditions.
- The interior room lamp timer operating time is expired.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL

Push-button Ignition Switch Illumination Basic Operation

BCM controls the ON/OFF status of push-button ignition switch illumination according to vehicle status.

Heart Beat Operation

BCM repeats brightening and dimming operation of push-button ignition switch illumination when any of the following conditions are satisfied.

- Welcome light function operates.
- When ignition switch is OFF and any of the following conditions are satisfied.
 - Driver door changes from closed to open
 - Intelligent Key ID comparison is OK and driver side door changes from open to closed
 - ID comparison by Intelligent Key transponder is OK
 - Driver door is unlocked

Illumination ON Operation

When ignition switch is ON, or tail lamp is ON, push-button ignition switch illumination turns ON.

Dimming Operation

When tail lamp is OFF and ignition switch is change from ON to OFF, ignition switch illumination dims to 50% brightness.

Illumination OFF Operation

When Push-button ignition switch illumination is at 100% brightness, if the next condition is satisfied, push-button ignition switch illumination turns OFF.

- Tail lamp turns OFF while ignition switch is OFF.

When push-button ignition switch illumination is at 50% brightness or, when in heartbeat status any of the following conditions are satisfied, push-button ignition switch illumination turns OFF.

When welcome light function is not operating and any on the following conditions is satisfied.

1. All of following conditions satisfied.
 - Driver side door is closed
 - Driver side door is locked
 - Intelligent Key ID comparison is NG
 - Comparison of Intelligent Key ID by transponder is NG
2. Driver side door from unlock to lock
3. 15 seconds* after start of heartbeat operation.
 - *:During the heartbeat status, 15 second timer resets when either of the following conditions are satisfied.
 - Driver door changes from closed to open
 - Intelligent Key ID comparison is OK and driver side door changes from open to closed
 - ID comparison by Intelligent Key transponder changes from NG to OK
 - Driver door changes from locked to unlocked

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

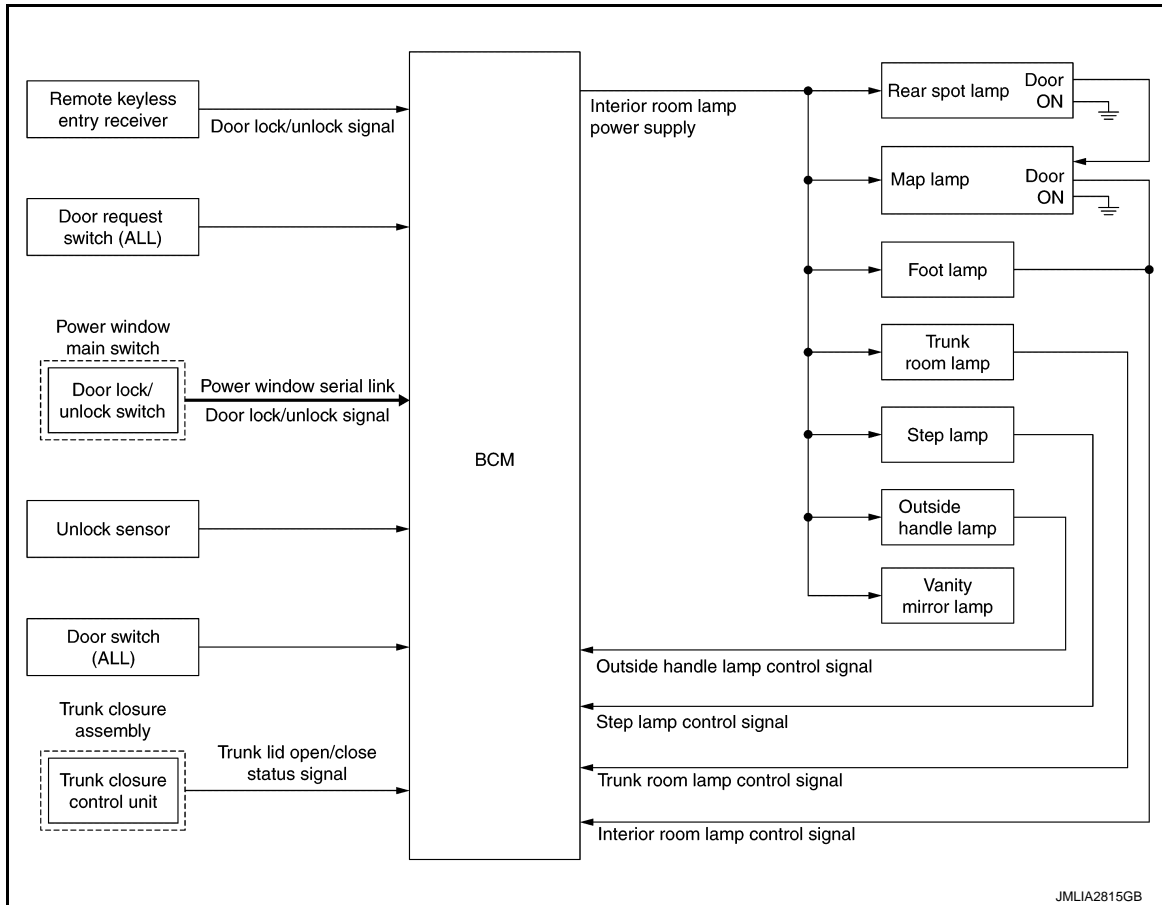
SYSTEM

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram

INFOID:000000012356121



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:000000012356122

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 any lamps.

Applicable lamps

- Map lamp
- Rear spot lamp
- Foot lamp
- Trunk room lamp
- Step lamp
- Outside handle lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

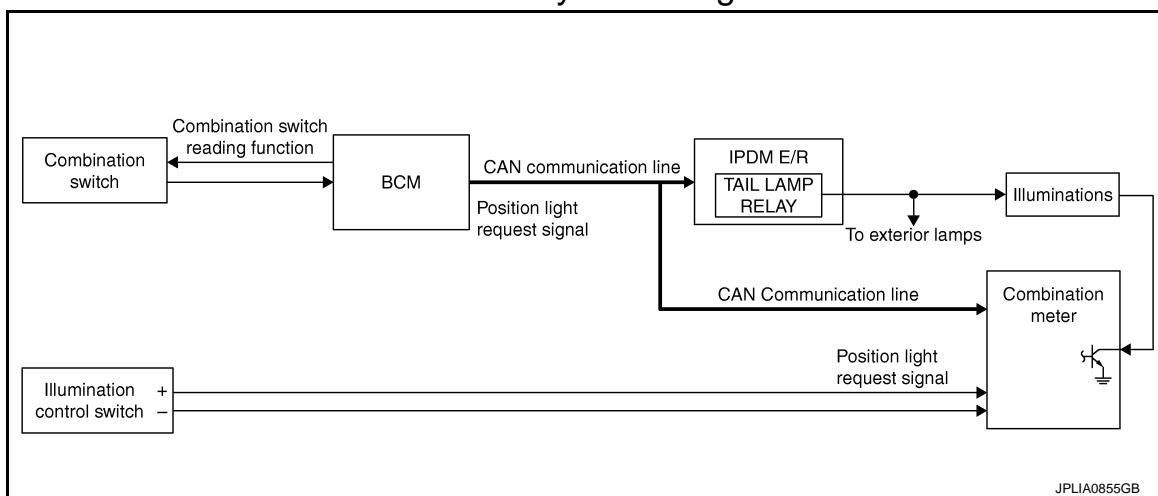
- When the ignition switch is turned to any position other than ON, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restart, the timer when any of the following signals change while operating the timer.
 - Ignition switch status
 - Door switch signal (ALL)
 - Trunk lid open/close status signal
 - Door lock/unlock signal (remote keyless entry receiver, each door request switch, door lock and unlock switch)
 - Unlock sensor signal
- BCM provides the interior room lamp power supply continuously when the ignition switch position is ON.
- When welcome light function operates.

NOTE:

Each function of interior room lamp battery saver can be set by CONSULT. Refer to [INL-102, "BATTERY SAVER : CONSULT Function \(BCM - BATTERY SAVER\) \(Long Wheel Base Models\)"](#).

ILLUMINATION CONTROL SYSTEM**ILLUMINATION CONTROL SYSTEM : System Diagram**

INFOID:000000012356123



JPLIA0855GB

ILLUMINATION CONTROL SYSTEM : System Description

INFOID:000000012356124

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-17, "METER ILLUMINATION CONTROL : 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.

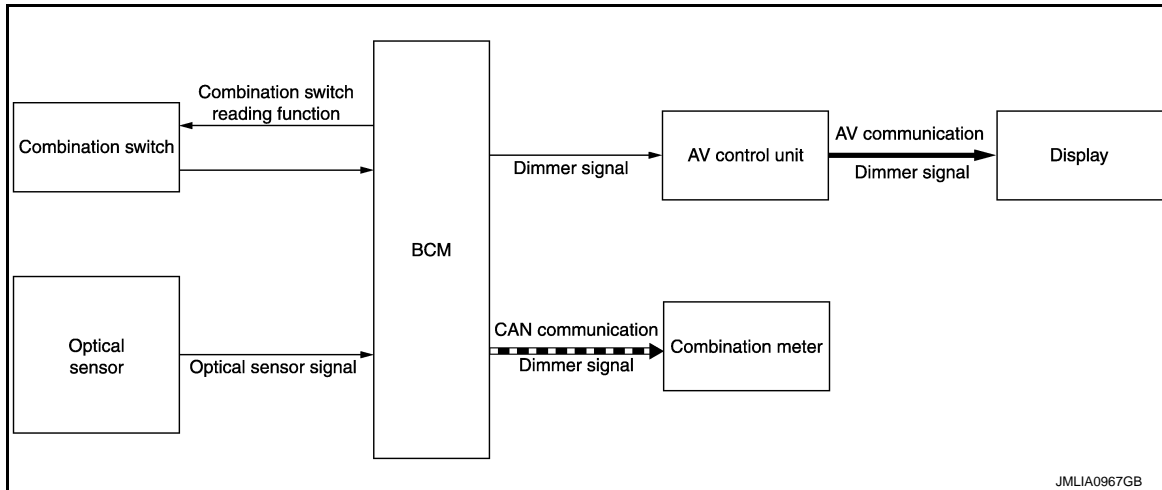
Tail lamp ON condition

- 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).

AUTO LIGHT ADJUSTMENT SYSTEM

AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram

INFOID:000000012356125



AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:000000012356126

OUTLINE

Auto light adjustment system is controlled by each function of BCM, combination meter and AV control unit

Control by BCM

- Auto light system
- Auto light adjustment system

AUTO LIGHT ADJUSTMENT SYSTEM

Description

- BCM supplies voltage to the optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM judges dims/brightness of combination meter and display according to brightness outside the vehicle, when ignition switch is ON.
- BCM transmits dimmer signal to combination meter via CAN communication, according to auto light adjustment conditions. Dimmer signal is also transmitted to AV control unit.

NOTE:

As to dims/brightness timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-26. "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)".](#)

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000012356127

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 CONDITONER*		×	×
<ul style="list-style-type: none">Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
—	AIR PRESSURE MONITOR*	×	×	×

*: This item 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 >

[LONG WHEEL BASE MODELS]

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 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 stopping and selector lever is except 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 with steering is locked.)*
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
	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	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 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

DIAGNOSIS SYSTEM (BCM)

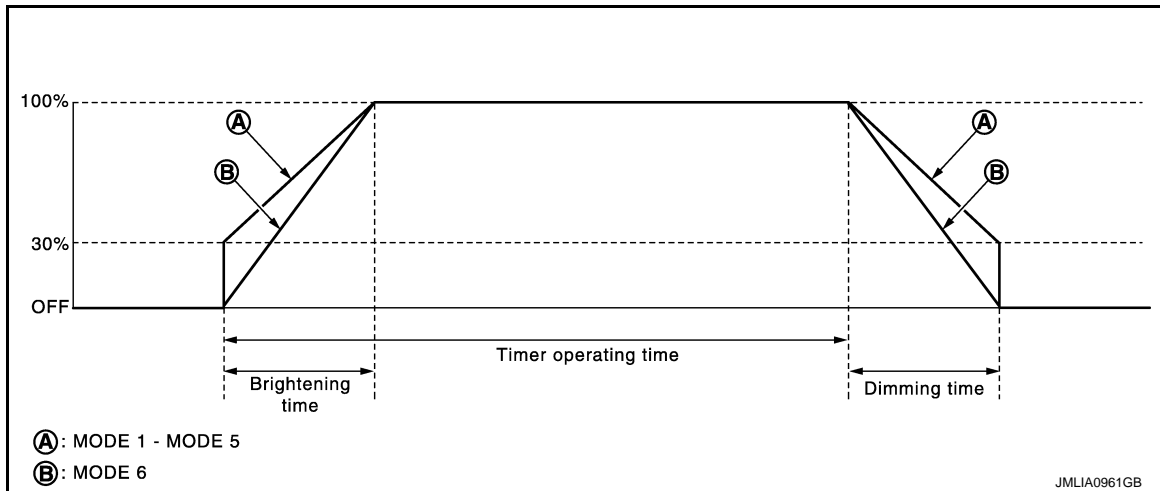
< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

INT LAMP : CONSULT Function (BCM - INT LAMP) (Long Wheel Base Models)

INFOID:0000000012356128

WORK SUPPORT



Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function	
	Off	Without the interior room lamp timer function	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Sets the interior room lamp ON time. (Timer operating time)
	MODE 3*	15 sec.	
	MODE 4	30 sec.	
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual brightening time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually brightens from 0% to 100% brightness in 1 second.	
ROOM LAMP OFF TIME SET	MODE 1	0.5 sec.	Sets the interior room lamp gradual dimming time.
	MODE 2	1 sec.	
	MODE 3	2 sec.	
	MODE 4	3 sec.	
	MODE 5	0 sec.	
	MODE 6*	Gradually dims from 100% to 0% in 1 second.	
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.	

*: 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 >

[LONG WHEEL BASE MODELS]

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: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	NOTE: The item is indicated, but not 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]	NOTE: This item is displayed, but cannot be monitored
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
KEY CYL LK-SW [On/Off]	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW [On/Off]	NOTE: This item is displayed, but cannot be monitored
TRNK/HAT MNTR [On/Off]	Indicates [On/Off] condition of trunk lid open/close status signal from trunk closure assembly
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	Outputs the step lamp control signal.
	Off	Stops the step lamp control signal.

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) (Long Wheel Base Models)

INFOID:000000012356129

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

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 factory setting is 10 minutes. The setting cannot be re- turned 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

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	Push switch status input from push-button ignition switch
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch RH
DOOR SW- RL [On/Off]	The switch status input from rear door switch LH
DOOR SW- BK [On/Off]	NOTE: The item is indicated, but not monitored.
CDL LOCK SW [On/Off]	Lock switch status input from door lock and unlock switch
CDL UNLOCK SW [On/Off]	Unlock switch status input from door lock and unlock switch

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

Monitor item [Unit]	Description
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch
TRNK/HAT MNTR [On/Off]	Trunk lid open/close status received from trunk closure assembly
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

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

*: Each lamp switch is in ON position.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012356130

ECU	Reference
BCM	BCS-37, "Reference Value"
	BCS-57, "Fail-safe"
	BCS-58, "DTC Inspection Priority Chart"
	BCS-59, "DTC Index"

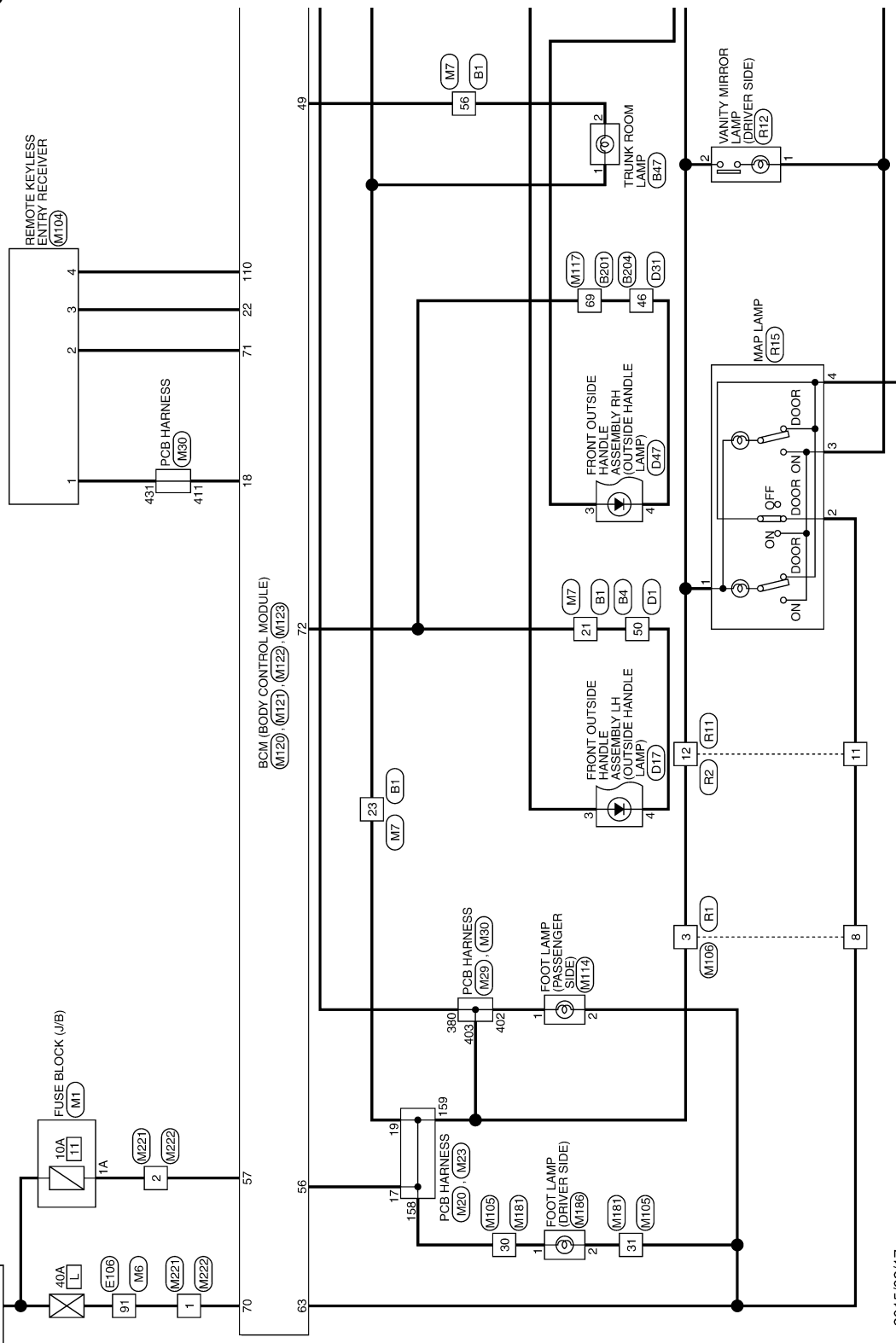
A
B
C
D
E
F
G
H
I
J
K
INL
M
N
O
P

[LONG WHEEL BASE MODELS]

WIRING DIAGRAM

Wiring Diagram

INTERIOR ROOM LAMP CONTROL SYSTEM



JRLWF0715GB

2015/02/17

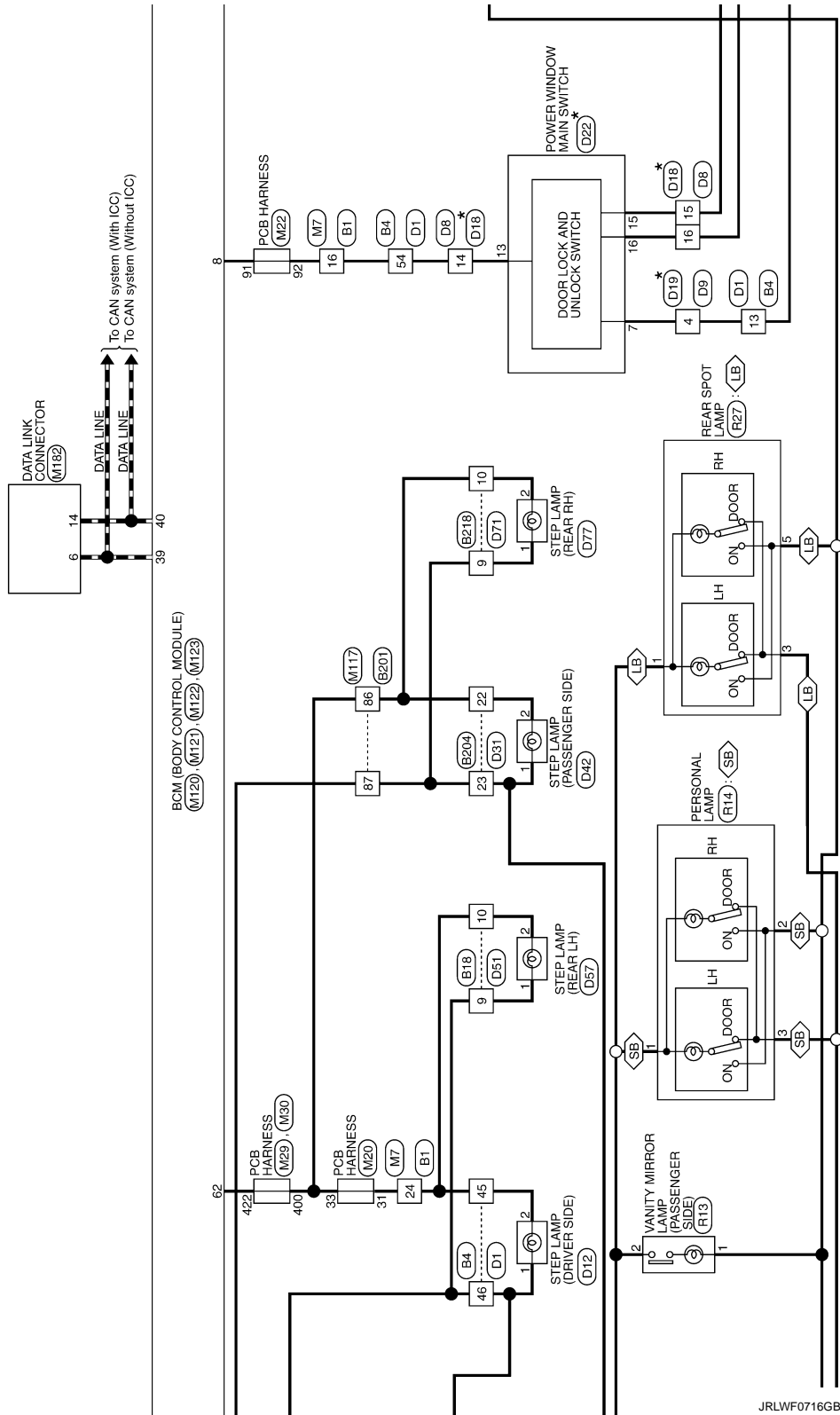
INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

SB : With personal lamp
LB : With spot lamp

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

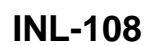


JRLWF0716GB

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

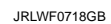
[LONG WHEEL BASE MODELS]

Revision: April 2016



[LONG WHEEL BASE MODELS]

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



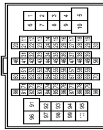
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

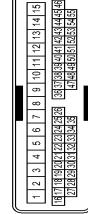
Connector No.	IS1
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS15-TM44



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat]
11	L	- [With heated seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	R	-
15	U	-
16	U	-
17	B	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	S8	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
36	G	-
37	S8	-
40	SHIELD	-

41	GR/V	-
42	W/L	-
43	B	-
44	B	-
47	O	-
48	Y	-
49	BR	-
50	S8	-
51	V	-
52	LG	-
53	G	-
56	P	-
57	BR	-
58	LG	-
59	Y	-
60	W	-
61	B	-
62	LG	-
63	V	-
65	O	-
66	BR	-
67	V	-
68	LG	-
69	GR	-
70	R	-
72	L	-
73	P	-
74	L	-
75	Y	-
76	V	-
77	R	-
78	W	-
79	G	-
81	LG	-
82	BR	-
83	S8	-
84	Y	-
85	W	-
86	R	-
87	G	-
88	GR	-
91	S8	-
92	G	-
96	Y	-
97	O	-
98	S8	-
99	LG	-

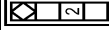
Connector No.	IS4
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	O/W	-
14	S8	-
15	O	-
16	Y	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	S8	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	S8	-
30	L	-
31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-

36	P	-
37	BR	-
38	W	-
39	O	-
40	L	-
41	W	-
42	B	-
43	R	-
44	G	-
45	Y	-
46	V	-
47	S8	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	IS16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW



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

JRLWF5988GB

[LONG WHEEL BASE MODELS]

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	+
2	BMW	-
3	BMW	-
5	Y	-
9	R	-
10	P	-
11	V	-
12	Y	-
13	BR	-
14	LG	-
15	GR	-
16	G	-
17	O	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	W	-
23	W	-
24	O	-

INTERIOR ROOM LAMP CONTROL SYSTEM

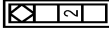
< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	G	-
33	R	-
35	P	-
36	B/R	-
37	BR	-
38	SB	-
39	P	-
44	SB	-
46	B	-
53	L	-
54	B	-
55	V	-

Connector No.	B216
Connector Name	FRONT DOOR SWITCH RH
Connector Type	A03FW



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

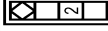
Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	NH10PW-CS10



6	5	4	3	2	1
13	12	11	10	9	8
20	19	18	17	16	15
14	13	12	11	10	9
8	7	6	5	4	3
2	1	0	-	-	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	O	-
4	P	-
7	B	-
8	P	-
9	O	-
10	W	-
11	O	-
12	Y	-
13	B	-

Connector No.	B223
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



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

Connector No.	B276
Connector Name	WIRE TO WIRE
Connector Type	NS16PW-CS



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

INTERIOR ROOM LAMP CONTROL SYSTEM

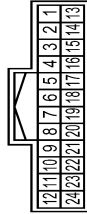
[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

54	W	-
55	J SHIELD	-

Connector No.	D8
Connector Name	WIRE TO WIRE
Connector Type	TH24W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	-
7	Y	-
8	V	-
9	GR	-
10	G	-
11	W	-
12	O	-
13	O	-
14	W	-
15	R	-
16	G	-
19	BR	-
20	SB	-
21	L	-
22	B	-
24	SB	-

Connector No.	D9
Connector Name	WIRE TO WIRE
Connector Type	NSDBPW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	O	-
4	B/W	-
5	L	-
6	G	-
7	Y	-
8	B	-

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TR02FW



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

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	DS06CP-RS



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

Connector No.	D17
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Type	S4206FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	B/W	-

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	TH24W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	-
7	V/W	-
8	V	-
9	V/B	-
10	V/W	-
11	V/W	-
12	O	-
13	LG	-
14	-	-
15	R	-
16	G	-
19	V	-
20	SB	-
21	R	-
23	LG	-
24	SB	-

Connector No.	D19
Connector Name	WIRE TO WIRE
Connector Type	NSDBMW-CS



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

JRLWF5991GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

9	G	-
10	R	-
8	B	-

Connector No.	D22
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	ENCODER POWER SUPPLY
4	Y	BATTERY POWER SUPPLY
5	G	FRONT POWER WINDOW MOTOR (DRIVER SIDE) DOWN SIGNAL
6	L	FRONT POWER WINDOW MOTOR (DRIVER SIDE) UP SIGNAL
7	B	GROUND
9	O	RETAINED POWER SIGNAL
10	LG	ENCODER GROUND
11	P	ENCODER SIGNAL 1
12	LG	ENCODER SIGNAL 2
13	R	POWER WINDOW MOTOR (LINK)
14	R	DOOR KEY CYLINDER SWITCH (LOCK) SIGNAL
15	G	DOOR KEY CYLINDER SWITCH (UNLOCK) SIGNAL

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/W	-
5	GR	-

0	V	-
10	R	-
11	L	-
12	Y	-
13	BR	-
14	G	-
15	SB	-
16	G	-
17	P	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	SB	-
23	G	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	P	-
33	L	-
35	W	-
36	L	-
37	P	-
38	SB	-
39	G	-
44	SB	-
46	B/W	-
53	L	-
54	B	-
55	V	-

Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TBD2FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-

Connector No.	D47
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	SAZ06FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	G	-
4	B/W	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	NH10NM-CS10



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D57
Connector Name	STEP LAMP (REAR LH)
Connector Type	TBD2FW



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

JRLWVF5992GB

INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS10

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	R	-
4	L	-
7	B	-
8	P	-
9	W	-
10	V	-
11	L	-
12	LG	-
13	B	-

Connector No.	D77
Connector Name	STEP LAMP (REAR RH)
Connector Type	FB22FW



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	LG	-
5	O	-
6	W	-
7	GR	-
8	G	-
9	Y	-
10	BR	-
11	SB	-
12	L	-
13	GR	-
14	GR	-
15	V	-
16	Y	-
17	GR	-
18	V	-
19	BR	-
20	P	-
21	P	-
22	L	-
23	P	-
27	SHIELD	-
28	L/O	-
29	W/L	-
31	BR	-
32	G	-
33	O	-
34	Y	-
36	G	-
37	V	-
41	BR	-
44	W	-
45	L	-
46	GR	-
47	V	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS05FW-A2



3A	2A/1A
6A	6A/5A/4A

Terminal No.	Color Of Wire	Signal Name [Specification]
1A	R	-
2A	W	-
3A	Y	-
4A	W	-
5A	V	-
6A	Y	-
8A	Y	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



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

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

JRLW5993GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

14	L	-	-
15	L	-	-
16	B	-	-
17	GB	-	-
18	V	-	-
19	GB	-	-
20	GB	-	-
21	BR	-	-
22	L	-	-
23	P	-	-
27	SHIELD	-	-
28	V	-	-
29	SB	-	-
31	BG	-	-
32	P	-	-
33	R	-	-
34	BG	-	-
36	V	-	-
37	G	-	-
41	BR	-	-
44	BR	-	-
45	Y	-	-
46	BG	-	-
47	V	-	-
48	G	-	-
49	BG	-	-
50	W	-	-
54	W	-	-
55	G	-	-
60	GR	-	-
61	L	-	-
62	LG	-	-
63	BR	-	-
64	SR	-	-
65	R	-	-
66	P	-	-
67	L	-	-
68	R	-	-
69	SHIELD	-	-
70	B	-	-
71	W	-	-
72	R	-	-
73	G	-	-
74	Y	-	-
75	B	-	-
76	SHIELD	-	-
77	B	-	-
78	V	-	-
80	G	-	-

92	B	-	-
93	BG	-	-
94	SR	-	-
95	V	-	-
96	L	-	-
97	V	-	-
98	V	-	-
99	V	-	-
100	L	-	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-0516-TM4



17	BG	-	-
18	L	-	-
19	Y	-	-
20	W	-	-
21	B	-	-
22	LG	-	-
23	V	-	-
24	V	-	-
25	G	-	-
26	BR	-	-
27	SB	-	-
28	P	-	-
29	L	-	-
30	SHIELD	-	-
32	L	-	-
33	P	-	-
36	BG	-	-
37	SB	-	-
41	SB	-	-
42	V	-	-
43	L	-	-
44	B	-	-
47	L	-	-
48	LG	-	-
49	BR	-	-
50	V	-	-
51	G	-	-
52	BG	-	-
53	SB	-	-
54	P	-	-
58	LG	-	-
59	Y	-	-
59	Y	-	-
60	GR	-	-
61	B	-	-
62	LG	-	-
63	BR	-	-
65	W	-	-
66	R	-	-
67	V	-	-
68	LG	-	-
69	SB	-	-
70	V	-	-
72	L	-	-
73	P	-	-
74	L	-	-
75	P	-	-
76	G	-	-
77	Y	-	-

58	-	-
59	Y	-
60	GR	-
61	B	-
62	LG	-
63	BR	-
65	W	-
66	R	-
67	V	-
68	LG	-
69	SB	-
70	V	-
72	L	-
73	P	-
74	L	-
75	P	-
76	G	-
77	Y	-

Connector No.	M20
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	G	-
5	R	-
6	W	-
11	BR	-
12	R	-
15	B	-
16	SHIELD	-
17	R	-
18	P	-
19	W	-
21	B	-
22	R	-
22	Y	- [With ICC]
23	L	- [With ICC]
23	SB	- [Without ICC]

JRLWVF5994GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

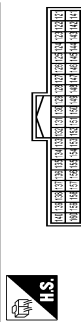
24	L	-
27	P	-
31	V	-
32	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M22
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



109	BR	-
110	Y	-
112	B	-
113	W	-
114	T	-
116	B	-
117	B	- [With V56 engine]
118	RG	- [With VQ37 engine]
119	LG	-
120	V	-

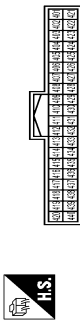
Connector No.	M23
Connector Name	PCB HARNESS
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	-
82	P	-
83	B	-
84	B	-
85	B	-
86	B	-
87	B	-
88	Y	-
89	V	-
91	V	-
92	V	-
93	B	-
94	B	-
95	LG	-
96	BR	-
97	G	-
98	G	-
99	G	-
100	G	-
101	L	-
102	P	-
103	B	-
104	BR	-
105	R	-
107	Y	-
108	Y	-

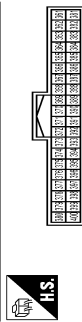
Terminal No.	Color Of Wire	Signal Name [Specification]
121	R	-
122	V	-
123	RG	-
124	RG	-
126	B	-
127	SB	-
131	SB	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
141	W	-
142	W	-
144	P	-
145	B	-
146	LG	-
147	B	-
149	B	-
150	P	-
151	L	-
152	B	-

Connector No.	M30
Connector Name	PCB HARNESS
Connector Type	TH40P14-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
417	B	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	P	-
438	LG	-
439	B	-
432	V	-
435	V	-
436	RG	-
437	B	-
438	P	-
439	L	-
440	B	-

Connector No.	M29
Connector Name	PCB HARNESS
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
361	W	-
362	W	-
363	Y	-
366	B	-
367	B	-
368	G	-
374	RG	-
375	RG	-
376	V	-
378	B	-
380	R	-
381	G	-
382	V	-
384	GR	-
395	P	-
396	L	-
400	V	-

JRLWF5995GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M104
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FBR



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

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	BR	SIGNAL OUTPUT
3	GR	RS51
4	R	BATTERY

Connector No.	M105
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



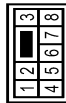
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
4	LG	-
5	P	-
6	L	-
7	P	-
8	B	-
9	B	-
10	W	-
11	W	-
12	SB	-
13	SB	-
14	BR	-
15	BR	-
16	V	-
17	G	-
18	BS	-
19	W	-
20	W	-
21	R	-
22	BR	-
23	L	-
24	L	-
25	P	-
26	LG	-
27	W	-
28	W	-
29	P	-
30	LG	-
31	L	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M114
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	CO2FW



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	R	-
7	B	-
8	L	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	Y	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	- [Without ADAS]
15	Y	- [With ADAS]
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	LG	-
22	LG	-
23	R	-
24	BG	-
25	BG	-
26	W	-
27	R	-
28	V	-
29	P	-
30	B	-
31	G	-
32	Y	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	BG	- [With heated seat]
46	L	- [With climate controlled seat]
47	G	- [With climate controlled seat]
47	GR	- [With heated seat]
48	V	-

INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

49	RG	-
50	LG	-
51	SB	-
52	W	-
53	W	-
54	B	-
55	G	-
56	R	-
57	W	-
58	W	-
59	W	-
60	LG	-
61	LG	-
62	V	-
63	R	-
64	SB	-
65	LG	-
66	L	-
67	Y	-
68	SB	-
69	B	-
70	L	-
71	L	-
72	L	-
73	P	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	L	-
80	G	-
81	RG	-
82	BR	-
83	GR	-
84	LG	-
85	W	-
86	V	-
87	R	-
88	Y	-
89	BR	-
90	L	-
91	Y	-
93	G	- [With heated seat] - [With climate controlled seat]
94	V	-
96	W	-
97	Y	-
98	BR	-
99	G	-
100	Y	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH409FW-NH

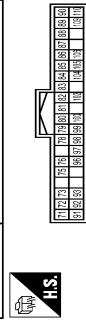


Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE408FB-FH46-SA



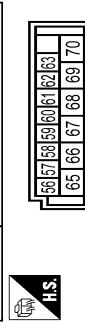
66	LG	DR DOOR FL LID UNLK OUTPUT
67	B	GND
68	W	PWR PWR SW (IGN)
69	O	PWR PWR SW (BAT)
70	W	BAT (72)

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH409FW-NH



Terminal No.	Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	R	TRUNK LID OPEN/CLOSE STATUS
44	V	TR LID OP CANCEL SW
45	GR	PASSENGER DOOR SW
46	BR	REAR RH DOOR SW
47	LG	DRIVER DOOR SW
48	P	REAR LH DOOR SW
49	SB	TR ROOM LAMP CONT
51	BG	TR LID OPEN REQ SW
53	LG	TRUNK LID OPEN REQUEST
55	BR	RR DOOR UNLK OUTPUT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE408FW-FH46-SA



Terminal No.	Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	AIR BAG SIGNAL
59	G	PASSENGER DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP TIMER CONT
65	V	ALL DOOR FL LID LOCK OUTPUT

Terminal No.	Wire	Signal Name [Specification]
71	BR	RYLS ENT RECEIVER COMMA
72	B	OUTS HD LAMP OUTPUT
73	V	ON IND
75	G	DR DOOR REQ SW
76	BR	PUSH SW
78	BR	DRIVER DOOR ANT+
79	SB	DRIVER DOOR ANT-
80	LG	PASSENGER DOOR ANT+
81	V	PASSENGER DOOR ANT-
82	W	REAR SW ANT+
84	BR	ROOM ANT+
85	V	ROOM ANT-
86	R	ROOM ANT2+
87	G	ROOM ANT2-
88	V	TRUNK ROOM ANT+
89	SB	TRUNK ROOM ANT-
90	GR	PUSH-BTN IGN SW ILL PWR
91	GR	LOCK IND
92	B	PUSH-BTN IGN SW ILL GND
93	V	I-KEY WARN BUZZER
96	SB	ACC RELAY CONT
97	SB	STARTER RELAY CONT
98	B	IGN RELAY (PDM E/R) CONT
99	R	IGN RELAY (PDM E/R) CONT
100	SB	PASS DOOR REQ SW
102	BR	P/N POSITION
104	GR	A/T SHIFT SELECT PWR SPLY
105	R	STOP LAMP SW 2

JRLWF5997GB

INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

< WIRING DIAGRAM >

INTERIOR ROOM LAMP CONTROL SYSTEM

108	B	BLW RELAY CONT
109	R	RECEIVED PWS SPV
110	R	

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH40MM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	R	-
6	BR	-
7	L	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	B	-
14	BR	-
15	BR	-
16	W	-
18	G	-
22	RG	-
23	B	-
25	W	-
30	R	-
31	BR	-
32	L	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M182
Connector Name	DATA LINK CONNECTOR
Connector Type	ED15FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	M-CAN_L
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLIVE
8	LG	IGN_SW
11	SB	M-CAN_H
12	P	CAN-L
13	L	CAN-H
14	P	CAN-L
16	W	POWER

Connector No.	M186
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	G03FW



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

Connector No.	M221
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



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

Connector No.	M222
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



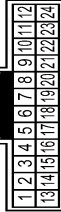
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	Y	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	HS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	GR	-
7	B	-
8	BR	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH24MM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	P	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	LG	-
18	L	-

JRLWF5998GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

19	G	-
20	R	-
21	B	-
22	GR	-
24	P	-

Connector No.	RL1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	GR	-
13	W	-
14	L	-
17	L	-
18	LG	-
19	R	-
20	G	-
21	R	-
22	B	-
23	GR	-
24	P	-

Connector No.	RL2
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MC602FW



1	2
---	---

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

Connector No.	RL3
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MC602FW



1	2
---	---

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

Connector No.	RL4
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



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

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

Connector No.	RL5
Connector Name	MAP LAMP
Connector Type	TK08FGY



1	6	5	4	3	2	1
---	---	---	---	---	---	---

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

Connector No.	RL7
Connector Name	REAR SPOT LAMP
Connector Type	LA05-S-SG



5	3	1
---	---	---

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	+B
3	Y	DOOR
5	V	GND

Connector No.	RL3
Connector Name	WIRE TO WIRE
Connector Type	HS16FW-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
5	W	-
6	R	-
7	G	-
8	O	-
9	V	-
10	L	-
11	W	-
12	B	-
13	R	-
14	L	-
15	P	-

JRLWF5999GB

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

INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	T14
Connector Name	TRUNK CLOSURE ASSEMBLY
Connector Type	MS06PM-05



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

JRLWF6000GB

[LONG WHEEL BASE MODELS]

ILLUMINATION

INFOID:0000000012356132



2015/09/02

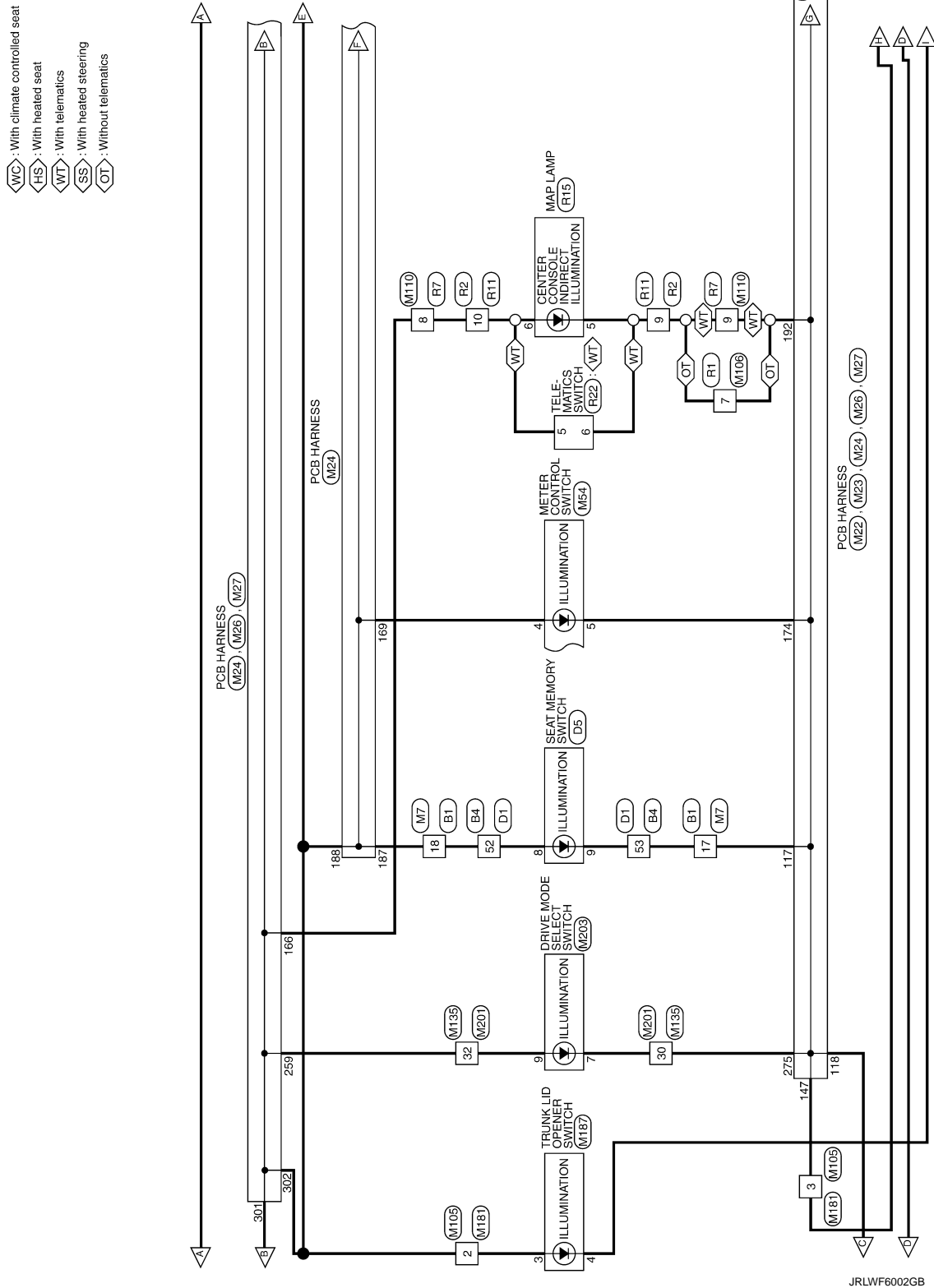
A
B
C
D
E
F
G
H
I
J
K
NL
M
N
O
P

NL

ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]



[LONG WHEEL BASE MODELS]

Revision: April 2016



2016 Q70

[LONG WHEEL BASE MODELS]

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



ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

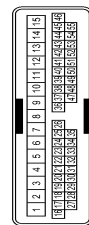
Connector No.	E1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS15-TM44



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
4	LG	-
5	P	-
7	GR	-
8	Y	-
9	LG	-
10	V	-
11	GR	- [With climate controlled seat]
11	L	- [With heated seat]
12	GR	- [With heated seat]
12	P	- [With climate controlled seat]
13	BR	-
14	R	-
15	O	-
16	B	-
17	R	-
18	R	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	V	-
24	Y	-
25	G	-
26	GR	-
27	SB	-
28	L/O	-
29	W/L	-
30	SHIELD	-
32	L	-
33	R	-
36	G	-
37	SB	-
40	SHIELD	-

41	GR/V	-
42	W/L	-
43	L	-
44	B	-
47	O	-
48	V	-
49	BR	-
50	SB	-
51	V	-
52	LG	-
53	G	-
56	P	-
57	BR	-
58	LG	-
59	Y	-
60	W	-
61	B	-
62	LG	-
63	V	-
65	O	-
66	BR	-
67	V	-
68	LG	-
69	GR	-
70	R	-
72	L	-
73	P	-
74	L	-
75	P	-
76	Y	-
78	W	-
78	W	-
79	G	-
81	LG	-
82	BR	-
83	Y	-
84	Y	-
85	W	-
86	R	-
87	G	-
88	GR	-
91	SB	-
92	G	-
96	Y	-
97	O	-
98	SB	-
99	LG	-

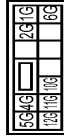
Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	L	-
5	B/W	-
6	L	-
7	R	-
8	B	-
9	W	-
10	LG	-
11	P	-
12	GR	-
13	B/W	-
14	SB	-
15	O	-
16	G	-
18	BR	-
19	GR	-
20	O	-
21	LG	-
22	L	-
23	SB	-
24	V	-
25	W/L	-
26	L/O	-
27	V	-
28	W	-
29	SB	-
30	L	-
31	LG	-
32	O	-
33	V	-
34	BR	-
35	B/R	-

36	P	-
37	BR	-
38	W	-
39	O	-
41	W	-
42	B	-
43	R	-
44	G	-
45	V	-
46	V	-
47	SB	-
48	GR	-
49	LG	-
50	B	-
51	G	-
52	R	-
53	B	-
54	V	-
55	SHIELD	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10G	W	-
11G	W	-
12G	GR	-
13G	GR	-
2G	G/R	-
4G	L	-
5G	P/L	-
6G	G	-

JRLWF6005GB

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

ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

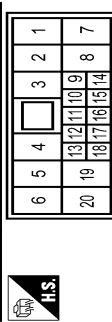
ILLUMINATION

Connector No.	B16
Connector Name	FRONT DOOR SWITCH LH
Connector Type	A03FW



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

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	WHLDPW-CS10



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

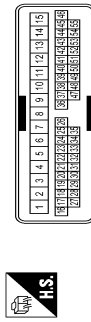
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8BMV-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
3	R	-
6	R	-
7	W	-
8	V	-
11	R	-
12	G	-
13	Y	-
14	L	-
15	R	-
17	GR	-
18	P	-
19	BR	-
20	GR	-
21	V	-
22	GR	-
23	GR	-
24	V	-
25	B	-
26	W	-
27	O	-
28	V	-
29	P	-
30	O	-
31	B/R	-
32	Y	-
40	SHIELD	-
41	W/R	-
42	V	-
45	SB	-
46	R	-
47	G	-
48	GR	-

49	O	-
50	P	-
51	GR	-
52	LG	-
53	P	-
56	P	-
57	W	-
58	O	-
59	Y	-
61	SB	-
62	L	-
63	W	-
64	SB	-
65	LG	-
66	L	-
67	Y	-
68	SB	-
69	B	-
71	L	-
72	L	-
73	R	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	P	-
80	G	-
81	GR	-
82	GR	-
83	GR	-
84	V	-
85	LG	-
86	W	-
87	O	-
88	Y	-
89	BR	-
90	L	-
91	BR	-
93	O	-
93	Y	-
94	GR	-
96	W	-
97	P	-
98	LG	-
99	LG	-
100	Y	-

Connector No.	B204
Connector Name	WIRE TO WIRE
Connector Type	TH8BMV-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B/W	-
3	B/W	-
5	Y	-
9	R	-
10	P	-
11	V	-
12	Y	-
13	BR	-
14	LG	-
15	GR	-
16	G	-
17	O	-
18	BR	-
19	GR	-
20	LG	-
21	W	-
22	O	-
23	O	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	G	-
33	R	-
35	P	-
36	B/R	-
37	BR	-
38	SB	-
39	P	-
44	SB	-
46	B	-
53	L	-

JRLWF6006GB

ILLUMINATION

54	B	-
55	V	-

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS10



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	O	-
4	P	-
7	B	-
8	P	-
9	O	-
10	W	-
11	O	-
12	Y	-
13	B	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



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

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

6	L	-
7	R	-
8	GR	-
9	G	-
10	LG	-
11	P	-
12	LG	-
13	B/W	-
14	Y	-
15	O	-
16	R	-
17	Y	-
18	BR	-
19	W	-
20	O	-
21	GR	-
22	G	-
23	LG	-
24	B	-
25	L	-
26	P	-
27	V	-
28	W	-
29	GR	-
30	G	-
31	Y	-
32	O	-
33	BR	-
34	L	-
35	P	-
36	V	-
37	GR	-
38	G	-
39	W	-
40	R	-
41	W	-
42	B	-
43	R	-
44	G	-
45	LG	-
46	BR	-
47	L	-
48	Y	-
49	P	-
50	B/W	-
51	G	-
52	Y	-
53	B/W	-
54	W	-
55	SHIELD	-

Connector No.	US
Connector Name	SEAT MEMORY SWITCH
Connector Type	TH16FW-WH



8	7	6	5	4	3	2	1
2	5	6	7	9	1	4	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	V	-
3	W	-
4	B	-
5	LG	-
6	GR	-
7	O	-
8	Y	-
9	B/W	-

Connector No.	D17
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Type	S4206FW



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	B/W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



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

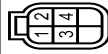
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/W	-
5	GR	-
9	V	-
10	R	-
11	L	-
12	Y	-
13	BR	-
14	G	-
15	SB	-
16	G	-
17	P	-
18	BR	-
19	GR	-
20	V	-
21	LG	-
22	SB	-
23	Y	-
24	Y	-
25	BR	-
26	L	-
27	W	-
28	B	-
29	R	-
30	SHIELD	-
31	G	-
32	P	-
33	L	-
35	W	-
36	L	-
37	P	-
38	SB	-
39	O	-
44	SB	-
46	B/W	-
53	L	-

JRLWF6007GB

ILLUMINATION

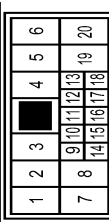
Connector No.	Signal Name [Specification]
51	B
53	V

Connector No.	Signal Name [Specification]
D47	FRONT OUTSIDE HANDLE ASSEMBLY RH
SAQ06FW	



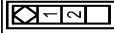
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	
2	B	
3	G	
4	B/W	

Connector No.	Signal Name [Specification]
D51	WIRE TO WIRE
NH10MW-CS10	



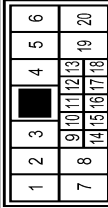
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	V	
3	R	
4	L	
7	B	
8	P	
9	W	
10	V	
11	L	
12	LG	
13	B	

Connector No.	Signal Name [Specification]
D58	ASHTRAY ILLUMINATION (REAR LH)
AQ3FW	



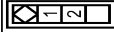
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	
2	B	

Connector No.	Signal Name [Specification]
D71	WIRE TO WIRE
NH10MW-CS10	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	V	
3	R	
4	L	
7	B	
8	P	
9	W	
10	V	
11	L	
12	LG	
13	B	

Connector No.	Signal Name [Specification]
D78	ASHTRAY ILLUMINATION (REAR RH)
AQ3FW	



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

Connector No.	Signal Name [Specification]
E5	FROM FAI INTELLIGENT POWER DISTRIBUTION MODULE ENGINE (HODMI)
TH20FW-CS12-M4-1V	



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	ENG_SOL
5	P	IGN_COIL
6	R	ECM_VB [With VQ37 engine]
7	SB	ECM_VB [With VQ37 engine]
8	R	ETC [With VQ37 engine]
9	L/V	A/C_COMP [With VQ37 engine]
10	P	A/C_COMP [With VQ37 engine]
11	V	ECM_BAT
12	G	P-GND
13	GR	ABS_ECU
14	W	FUEL_PUMP [With VQ37 engine]
15	V	FUEL_PUMP [With VQ37 engine]
16	Y	WIPER_AUTOSTOP
17	Y	IGN_SIGNAL
18	BR	ALT-C
19	P	DTRL_RLY
20	O	HOOD_SW

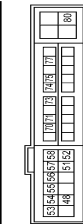
Terminal No.	Color Of Wire	Signal Name [Specification]
35	LG	SUB_ECU
36	BR	PUSHER_SW
37	BR	NP_SW [With VQ37 engine]
38	W	NP_SW [With VQ37 engine]
39	GR	FUEL_SW

Connector No.	Signal Name [Specification]
E5	FROM FAI INTELLIGENT POWER DISTRIBUTION MODULE ENGINE (HODMI)
TH20FW-NH	



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	CAN-L
40	L	CAN-H
41	B	S-GND
42	V	MOTOR_FAN_RLY [With VQ37 engine]
43	Y	MOTOR_FAN_RLY [With VQ37 engine]
44	SB	DETENT_SW
45	GR	HORN_RLY [With VQ37 engine]
46	LG	HORN_RLY [With VQ37 engine]
47	GR	START_CONT

Connector No.	Signal Name [Specification]
E7	FROM FAI INTELLIGENT POWER DISTRIBUTION MODULE ENGINE (HODMI)
TH20FW-CS12-M4	



Terminal No.	Color Of Wire	Signal Name [Specification]
48	P	DTRL_DELCER
49	O	WASH_MTR
50	G	INJECTOR_#1

ILLUMINATION

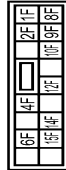
< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
53	L	FR WIPER HI
54	P	FR WIPER LO
55	GR	STARTER SW
56	GR	OIL PRESS SW
57	GR	OIL PRESS SW
58	BR	AT ECU
60	GR	SSPF
70	LG	MOTRLY
71	O	START (G/L/R)
73	G	START (G/E/L)
74	R	START (G/E/L)
75	Y	OIL PRESSURE SW
77	B	FPR
80	W	STARTER MOTOR

Connector No.	Connector Name	Connector Type
E103	FUSE BLOCK (J/B)	NS16FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10P	GR	-
11P	GR	-
12P	W	-
13P	W	-
14P	W	-
15P	V	-
16P	W	-
17P	LG	-
18P	LG	-
19P	G	-
20P	O	-
21P	BR	-
22P	R	-

Connector No.	Connector Name	Connector Type
E106	WIRE TO WIRE	TH80PW-CS16-TM4



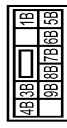
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	LG	-
5	O	-
6	W	-
7	GR	-
8	G	-
9	Y	-
10	BR	-
11	SB	-
12	L	-
13	GR	-
14	GR	-
15	V	-
16	Y	-
17	GR	-
18	GR	-
19	BR	-
20	BR	-
21	P	-
22	L	-
23	P	-
24	SHIELD	-
25	L/O	-
26	W/L	-
27	BR	-
28	G	-
29	O	-
30	Y	-
31	BR	-
32	G	-
33	O	-
34	Y	-
35	G	-
36	Y	-
37	V	-
38	BR	-
39	L	-
40	GR	-
41	V	-
42	V	-
43	V	-
44	W	-
45	L	-
46	GR	-
47	V	-

Connector No.	Connector Name	Connector Type
M1	FUSE BLOCK (J/B)	NS05FW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	R	-
2A	W	-
3A	Y	-
4A	W	-
5A	V	-
6A	Y	-
7A	Y	-
8A	Y	-

Connector No.	Connector Name	Connector Type
M2	FUSE BLOCK (J/B)	NS16PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B	R	-
2B	P	-
3B	G	-
4B	G	-
5B	SB	-
6B	W	-
7B	Y	-
8B	R	-

JRLWF6009GB

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

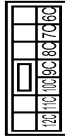
ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	LG	-
11C	LG	-
12C	O	-
6C	R	-
7C	B	-
8C	B	-
9C	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

14	L	-
15	V	-
16	B	-
17	GR	-
18	W	-
19	SB	-
20	SB	-
21	BR	-
22	L	-
23	P	-
24	SHIELD	-
25	V	-
26	Y	-
27	SB	-
28	Y	-
29	SB	-
30	P	-
31	LG	-
32	R	-
33	BG	-
34	BG	-
35	V	-
36	G	-
37	BR	-
38	Y	-
39	Y	-
40	Y	-
41	Y	-
42	Y	-
43	Y	-
44	Y	-
45	Y	-
46	Y	-
47	Y	-
48	G	-
49	BG	-
50	W	-
51	W	-
52	G	-
53	GR	-
54	GR	-
55	LG	-
56	LG	-
57	BR	-
58	L	-
59	SB	-
60	R	-
61	Y	-
62	P	-
63	L	-
64	SHIELD	-
65	SHIELD	-
66	SHIELD	-
67	SHIELD	-
68	SHIELD	-
69	SHIELD	-
70	SHIELD	-
71	SHIELD	-
72	SHIELD	-
73	SHIELD	-
74	SHIELD	-
75	SHIELD	-
76	SHIELD	-
77	SHIELD	-
78	SHIELD	-
79	SHIELD	-
80	SHIELD	-

82	B	-
83	BG	-
84	SB	-
85	Y	-
86	L	-
87	V	-
88	V	-
89	LG	-
90	BG	-
91	W	-
92	BG	-
93	G	-
94	Y	-
95	W	-
96	SB	-
97	SHIELD	-
98	R	-
99	W	-
100	L	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

17	BG	-
18	Y	-
19	W	-
20	L	-
21	B	-
22	LG	-
23	W	-
24	V	-
25	G	-
26	BR	-
27	SB	-
28	P	-
29	L	-
30	SHIELD	-
31	L	-
32	P	-
33	BG	-
34	SB	-
35	Y	-
36	Y	-
37	Y	-
38	Y	-
39	Y	-
40	Y	-
41	Y	-
42	Y	-
43	Y	-
44	Y	-
45	Y	-
46	Y	-
47	Y	-
48	Y	-
49	Y	-
50	Y	-
51	Y	-
52	Y	-
53	Y	-
54	Y	-
55	Y	-
56	Y	-
57	Y	-
58	Y	-
59	Y	-
60	Y	-
61	Y	-
62	Y	-
63	Y	-
64	Y	-
65	Y	-
66	Y	-
67	Y	-
68	Y	-
69	Y	-
70	Y	-
71	Y	-
72	Y	-
73	Y	-
74	Y	-
75	Y	-
76	Y	-
77	Y	-

ILLUMINATION

7/8	SB	-	-
7/9	W	-	-
8/1	LG	-	-
8/2	SG	-	-
8/3	B	-	-
8/4	W	-	-
8/5	G	-	-
8/6	R	-	-
8/7	G	-	-
8/8	G	-	-
9/1	W	-	-
9/2	G	-	-
9/6	W	-	-
9/7	BG	-	-
9/8	Y	-	-
9/9	LG	-	-

Connector No.	M10
Connector Name	DIODE
Connector Type	24335_C0902



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	G	-
5	R	-
6	W	-
11	BR	-
12	R	-
15	B	-
16	SHIELD	-
17	R	-
18	P	-
19	W	-
21	B	-
22	R	-
22	Y	- [With LCI]
23	L	- [Without LCI]
24	SB	-
24	W	- [Without LCI]
27	P	-
31	V	-
33	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M20
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	G	-
5	R	-
6	W	-
11	BR	-
12	R	-
15	B	-
16	SHIELD	-
17	R	-
18	P	-
19	W	-
21	B	-
22	R	-
22	Y	- [With LCI]
23	L	- [Without LCI]
24	SB	-
24	W	- [Without LCI]
27	P	-
31	V	-
33	V	-
35	L	-
36	P	-
38	L	-
40	Y	-

Connector No.	M22
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	-
82	P	-
83	B	-
84	B	-
85	B	-
86	B	-
87	B	-
88	B	-
89	Y	-
91	V	-
92	V	-
93	B	-
94	B	-
95	LG	-
96	BR	-
97	G	-
98	G	-
100	G	-
101	L	-
102	L	-
102	P	-
103	B	-
104	BR	-
105	R	-
107	Y	-
108	Y	-
109	BR	-
110	Y	-
112	B	-
113	P	-
114	L	-
116	B	-
117	B	-
117	BG	- [With V456 engine]
118	B	-
119	LG	-

120	V	-
-----	---	---

Connector No.	M23
Connector Name	PCB HARNESS
Connector Type	TH40PB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
121	R	-
122	V	-
123	BG	-
124	BG	-
126	B	-
131	SB	-
132	LG	-
133	L	-
134	L	-
135	P	-
136	P	-
137	Y	-
138	L	-
140	W	-
142	W	-
144	P	-
145	B	-
146	LG	-
147	B	-
149	B	-
150	P	-
151	L	-
152	B	-
153	W	-
154	W	-
155	W	-
157	W	-
158	R	-
159	R	-
160	SB	-

JRLWF6011GB

ILLUMINATION

Connector No.	M24
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
161	BG	-
162	BG	-
164	V	-
165	V	-
166	R	-
167	LG	-
169	R	-
171	BG	-
172	B	-
174	W	-
176	L	-
177	P	-
178	Y	-
179	L	-
180	LG	-
182	R	-
183	R	-
184	V	-
185	P	-
186	R	-
187	Y	-
188	L	-
189	B	-
190	V	-
191	LG	-
192	B	-
193	SB	-
194	BR	-
195	SB	-
198	R	-
199	B	-
200	SB	-

Connector No.	M26
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
241	L	-
242	L	-
243	R	- [With LCC]
243	Y	- [Without LCC]
244	L	- [With LCC]
244	SB	- [Without LCC]
245	B	-
246	B	-
247	B	-
248	SHIELD	-
251	SHIELD	-
252	B	-
253	B	-
254	W	- [With heated seat]
254	W	- [With climate controlled seat]
255	B	-
258	R	-
259	L	-
260	BG	-
261	P	-
262	P	-
267	P	-
268	Y	-
269	G	-
270	Y	-
271	BR	-
272	G	-
273	R	-
274	R	-
275	Y	-
276	B	-
277	G	-
278	R	-
279	R	-
280	Y	-

Connector No.	M27
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
281	O	-
282	BG	-
283	BG	-
284	BG	-
286	W	-
287	Y	-
288	W	-
289	SHIELD	-
290	B	-
291	SHIELD	-
292	B	-
293	B	-
294	B	-
295	B	-
296	GR	-
298	B	-
299	L	-
300	W	-
301	R	-
302	R	-
303	R	-
304	SHIELD	-
305	P	-
306	V	-
309	G	-
310	R	-
311	W	-
312	B	-
313	B	-
314	Y	-
315	G	-
316	R	-
317	W	-
318	SHIELD	-
319	V	-

320	W	-
-----	---	---

Connector No.	M30
Connector Name	PCB HARNESS
Connector Type	TH40F4W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
402	R	-
403	R	-
406	B	-
407	V	-
408	B	-
409	B	-
410	B	-
411	B	-
413	Y	-
414	BR	-
416	LG	-
419	SB	-
420	SHIELD	-
422	V	-
427	P	-
428	V	-
429	P	-
430	LG	-
431	B	-
432	Y	-
435	V	-
436	BG	-
437	B	-
438	P	-
439	L	-
440	B	-

Terminal No.	Color Of Wire	Signal Name (Specification)
23	R	-
28	Y	-
29	Y	-
30	W	-

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	W	IGNITION SIGNAL
3	GR	VEHICLE SPEED SIGNAL (P-PULSES)
4	GR	VEHICLE SPEED SIGNAL (P-PULSES)
5	B	ILLUMINATION CONTROL SIGNAL
6	B	METER CONTROL SWITCH-GROUND
7	SB	ENTER SWITCH SIGNAL
8	LG	SELECT SWITCH SIGNAL
9	G	ILLUMINATION CONTROL SWITCH SIGNAL (L)
10	GR	ILLUMINATION CONTROL SWITCH SIGNAL (L)
11	L	TRIP RESET SWITCH SIGNAL
12	B	GROUND
13	L	CAN-H
14	P	CAN-L
15	P	CAN-H
16	R	AIR BAG SIGNAL
17	G	LED HEAD-AMP (RH) WARNING SIGNAL
18	V	LED HEAD-AMP (LH) WARNING SIGNAL
19	B	GROUND
20	B	FUEL LEVEL SENSOR SIGNAL
21	B	ALTERNATOR SIGNAL
22	W	PARKING BRAKE SWITCH SIGNAL
23	V	PRIME FLUID LEVEL SWITCH SIGNAL
24	G	SECURITY SIGNAL
25	W	SECURITY SIGNAL
26	V	WASHER LEVEL SWITCH SIGNAL
27	G	PADDLE SHIFTER SHIFT DOWN SIGNAL
28	L	PADDLE SHIFTER SHIFT UP SIGNAL
29	L	FUEL LEVEL SENSOR SIGNAL
30	G	FUEL LEVEL SENSOR SIGNAL
31	B6	SEAT BELT SWITCH SIGNAL (DRIVER SIDE)
32	G	PASSENGER SEAT BELT WARNING SIGNAL
33	W	NON-MANUAL MODE SIGNAL
34	G	MANUAL MODE-SHIFT DOWN SIGNAL
35	L	MANUAL MODE-SHIFT UP SIGNAL

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
4	R	ILL
5	B	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
15	R	AIR BAG CUT OFF
16	C	HAZARD FLASHER

ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

Connector No.	M74
Connector Name	CLOCK
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY POWER SUPPLY
2	B	GROUND
3	R	ILLUMINATION (+)
4	B	ILLUMINATION (-)

Connector No.	M81
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	GR	SOUND SIGNAL REAR LH (+)
5	G	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC POWER SUPPLY
9	SB	ILLUMINATION
11	BR	SOUND SIGNAL FRONT RH (+)
12	R	SOUND SIGNAL FRONT RH (-)
13	P	SOUND SIGNAL REAR RH (+)
14	V	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M82
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	B	SIGNAL GND
38	G	HP
39	Y	COMM (DSP-XCOM)
40	R	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	W	RGB SYNC
43	R	RGB (R-RED) SIGNAL
44	B	RGB (G-GREEN) SIGNAL
45	W	RGB (B-BLUE) SIGNAL
46	V	COMPOSITE IMAGE GND
47	SB	COMPOSITE IMAGE SIGNAL
48	L	INVERTER VCC
49	LG	INVERTER GND
50	BR	COMM (CODES-DISP)
51	SHIELD	SHIELD
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TK02FBR



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

Connector No.	M92
Connector Name	WIRE TO WIRE
Connector Type	TK02M8B-P



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

Connector No.	M93
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M94
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	POWER
2	W	OUTPUT
3	B	GND

Connector No.	M105
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	LG	-
6	P	-
7	L	-
8	P	-
9	B	-
10	W	-
11	W	-
12	SB	-
14	SB	-
15	BR	-
16	V	-
18	G	-
22	BG	-
23	B	-
25	W	-

ILLUMINATION

30	R	-
31	BR	-
32	P	-
33	P	-
34	LG	-
35	W	-
36	LG	-
37	L	-

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



1	2	3
4	5	6
7	8	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	BG	-
5	Y	-
6	R	-
8	L	-

Connector No.	M110
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



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

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

4	R	-
5	L	-
6	B	-
8	BR	-
9	S	-
10	V	-
11	BR	-
12	G	-
13	L	-
20	V	-
21	R	-
22	G	-
23	L	-
24	LG	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	Y	-
6	Y	-
7	W	-
8	V	-
11	R	-
12	G	-
13	W	-
14	L	-
15	R	-
15	Y	- [Without ADAS]
17	GR	- [With ADAS]
18	P	-
19	BR	-
20	GR	-
21	Y	-
22	LG	-
23	R	-
24	BG	-

25	BG	-
26	W	-
27	L	-
28	P	-
29	B	-
30	G	-
31	Y	-
32	Y	-
33	W	-
34	V	-
40	SHIELD	-
41	R	-
42	V	-
45	SB	-
46	BG	-
46	L	- [With heated seat]
46	L	- [With climate controlled seat]
47	GR	-
47	GR	- [With heated seat]
48	V	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	W	-
56	B	-
57	G	-
58	R	-
59	W	-
61	LG	-
62	V	-
63	R	-
64	SB	-
65	L	-
67	Y	-
68	SB	-
69	B	-
71	L	-
72	L	-
73	P	-
74	B	-
75	L	-
76	SHIELD	-
77	G	-
78	R	-
79	L	-
80	G	-
81	BG	-
82	BR	-
83	GR	-
84	V	-
85	LG	-

86	V	-
87	R	-
88	Y	-
89	BR	-
90	P	-
91	Y	-
92	G	-
93	G	-
94	V	-
96	W	-
97	Y	-
98	BR	-
99	G	-
100	Y	-

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PFI-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR WINDOW DEFSW CONT
2	BR	COMBI SW INUIT 1
3	SP	COMBI SW INUIT 2
4	G	COMBI SW INUIT 3
5	G	COMBI SW INUIT 2
6	P	COMBI SW INUIT 1
8	V	POWER WINDOW SW COMM
9	P	STOP LAMP SW 1
11	R	RAIN SENSOR SERIAL LINK
14	W	OPTICAL SENSOR
16	SB	DIMMER SIGNAL
17	Y	SENSOR PWR SPPLY
18	B	RECEIVER / SENSOR GND
19	V	TURN SIG RH OUTPUT (FRONT)
20	G	TURN SIG LH OUTPUT (FRONT)
21	P	NATS ANT AMP
22	GR	KYLS ENT RECEIVER BSI
23	G	SECURITY IND CONT
24	L	DONGLE LINK
25	G	NATS ANT AMP

JRLWF6015GB

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
26	G	L-KEY IDENTIFICATION
27	G	LOCK SW
28	G	TR LID OPEN SW
31	W	DR DOOR UNLK SENSOR
32	BR	COMB SW OUTPUT 5
33	R	COMB SW OUTPUT 4
34	V	COMB SW OUTPUT 3
35	Y	COMB SW OUTPUT 2
36	LG	COMB SW OUTPUT 1
37	R	P POSITION
39	L	CAN-H
40	P	CAN-L

Connector No.	Connector Name	Connector Type
M121	BCM (BODY CONTROL MODULE)	FE409PW-FH46-SA



41	42	44	45	46	47	48	49	51	53	55
----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
41	W	TR KEY CYLINDER SW
42	W	TRUNK LID OPEN REQUEST STATUS
45	GR	TR LID OPEN CANCEL SW
46	GR	PASSENGER DOOR SW
47	LG	REAR RH DOOR SW
48	P	DRIVER DOOR SW
49	SR	REAR LH DOOR SW
51	BG	TR ROOM LAMP CONT
53	LG	TR LID OPEN REQ SW
55	BR	TR DOOR UNLK OUTPUT

Connector No.	Connector Name	Connector Type
M122	BCM (BODY CONTROL MODULE)	FE409PW-FH46-SA



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

Terminal No.	Color Of Wire	Signal Name [Specification]
56	R	INT ROOM LAMP PWR SPLY
57	R	BAT (FUSE)
58	L	AIR BAG SIGNAL
59	G	PASS DOOR UNLK OUTPUT
60	G	TURN SIG LH OUTPUT (SIDE, REAR)
61	V	TURN SIG RH OUTPUT (SIDE, REAR)
62	V	STEP LAMP CONT
63	L	ROOM LAMP TIMER CONT
65	V	ALL DOOR FLID LOCK OUTPUT
66	LG	DR DOOR FLID UNLK OUTPUT
67	B	GN
68	O	PW PWR SPLY (IGN)
69	Y	PW PWR SPLY (BAT)
70	W	BAT (F/L)

Connector No.	Connector Name	Connector Type
M123	BCM (BODY CONTROL MODULE)	TH409PW-NH



71	72	73	74	75	76	77	78
----	----	----	----	----	----	----	----

Terminal No.	Color Of Wire	Signal Name [Specification]
71	BR	KYLS ENT RECEIVER COMM
72	B	OUTS HD LAMP OUTPUT
73	V	ON IND
75	G	DR DOOR REQ SW
76	BR	PUSH SW
78	BR	DRIVER DOOR ANT+

Connector No.	Connector Name	Connector Type
M135	WIRE TO WIRE	TH43PW-NH



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 [Specification]
1	W	-
2	BG	-
5	L	- [With heated seat]
6	V	- [With climate controlled seat]
7	GR	- [With heated seat]
10	SR	-
10	GR	- [With climate controlled seat]
11	BG	- [With heated seat]
11	L	- [With climate controlled seat]
12	Y	-
13	W	-
14	L	-
15	G	-
16	P	- [With heated seat]
17	W	- [With climate controlled seat]
18	BR	-
19	GR	-
20	B	-
21	R	-
22	B	- [With heated seat]
22	W	- [With climate controlled seat]
23	BG	-
24	V	-
25	B	- [With heated seat]
25	LG	- [With climate controlled seat]
26	R	- [With heated seat]
26	SR	- [With climate controlled seat]
27	B	- [With heated seat]
27	P	- [With climate controlled seat]
28	B	-
29	B	-
30	V	-
32	L	-

Connector No.	Connector Name	Connector Type
M132	CIGARETTE LIGHTER SOCKET	NS03PW-CS

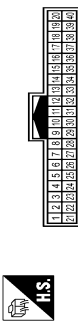


3	2	1
---	---	---

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

ILLUMINATION

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH400W-NH



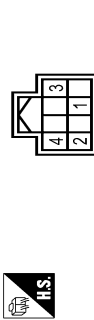
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
5	R	-
6	BR	-
7	L	-
8	P	-
9	B	-
10	W	-
11	LG	-
12	SB	-
14	SB	-
15	BR	-
16	V	-
18	G	-
22	BG	-
23	B	-
25	R	-
26	BR	-
27	L	-
32	P	-
33	LG	-
34	W	-
35	LG	-
36	LG	-
37	L	-

Connector No.	M183
Connector Name	TRIPLE SWITCH
Connector Type	TH12P-NH



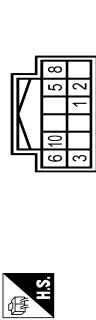
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	- [With LCC]
3	SB	- [Without LCC]
5	B	-
6	R	-
7	B	-
8	R	-
9	W	-
12	L	-

Connector No.	M187
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TH8P-S-NH



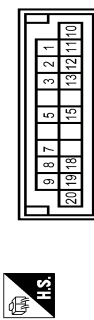
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	R	-
4	B	-

Connector No.	M188
Connector Name	TWIN SWITCH
Connector Type	TH12G-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	SB	-
3	B	-
5	BG	-
6	B	-
8	W	-
10	B	-

Connector No.	M189
Connector Name	JOINT CONNECTOR-M01
Connector Type	NR20P-LCC



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

19	LG
20	LG

Connector No.	M185
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK40PW



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

Connector No.	M199
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK05PBR



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

JRLWF6017GB

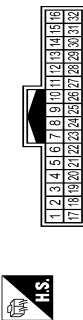
ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	TH22NMV-NH



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

Connector No.	M202
Connector Name	A/T SHIFT SELECTOR ILLUMINATION
Connector Type	TH03FBB-B



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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	G	-
4	Y	-
5	B	-
6	B	-
7	B	-
8	R	-
9	R	-

Connector No.	M204
Connector Name	CLIMATE CONTROLLED GAS SWITCH (DRIVER SIDE)
Connector Type	TK08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	V	-
3	P	-
4	BR	-
5	GR	-
6	B	-
7	R	-
8	B	-

Connector No.	M205
Connector Name	CLIMATE CONTROLLED GAS SWITCH (PASSENGER SIDE)
Connector Type	TK08BR



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

Connector No.	M206
Connector Name	WIRE TO WIRE
Connector Type	NS08MVC-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

Connector No.	M207
Connector Name	WIRE TO WIRE
Connector Type	NS08MVC-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BG	-
3	V	-
4	SB	-
5	B	-
6	G	-
7	R	-
8	SHIELD	-

JRLWF6018GB

ILLUMINATION

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH23FW-NH



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ILLUMINATION

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]

ILLUMINATION

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	W	-
4	R	-
5	L	-
6	B	-
7	R	-
8	P	-
9	B	-
10	V	-
11	BR	-
12	G	-
13	L	-
20	R	-
21	R	-
22	G	-
23	L	-
24	LG	-

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24F-W-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
5	SHIELD	-
6	R	-
7	G	-
8	B	-
9	B	-
10	R	-
11	BR	-
12	R	-
13	BR	-
14	V	-
17	L	-
18	LG	-
19	R	-

20	G	-
21	S	-
22	S	-
23	GB	-
24	P	-

Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TX08F-GY



16	5	4	3	2	1
----	---	---	---	---	---

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

Connector No.	R22
Connector Name	TELEMATICS SWITCH
Connector Type	TH08F-W-NH



3	2	1
7	6	5

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

JRLWF6020GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[LONG WHEEL BASE MODELS]

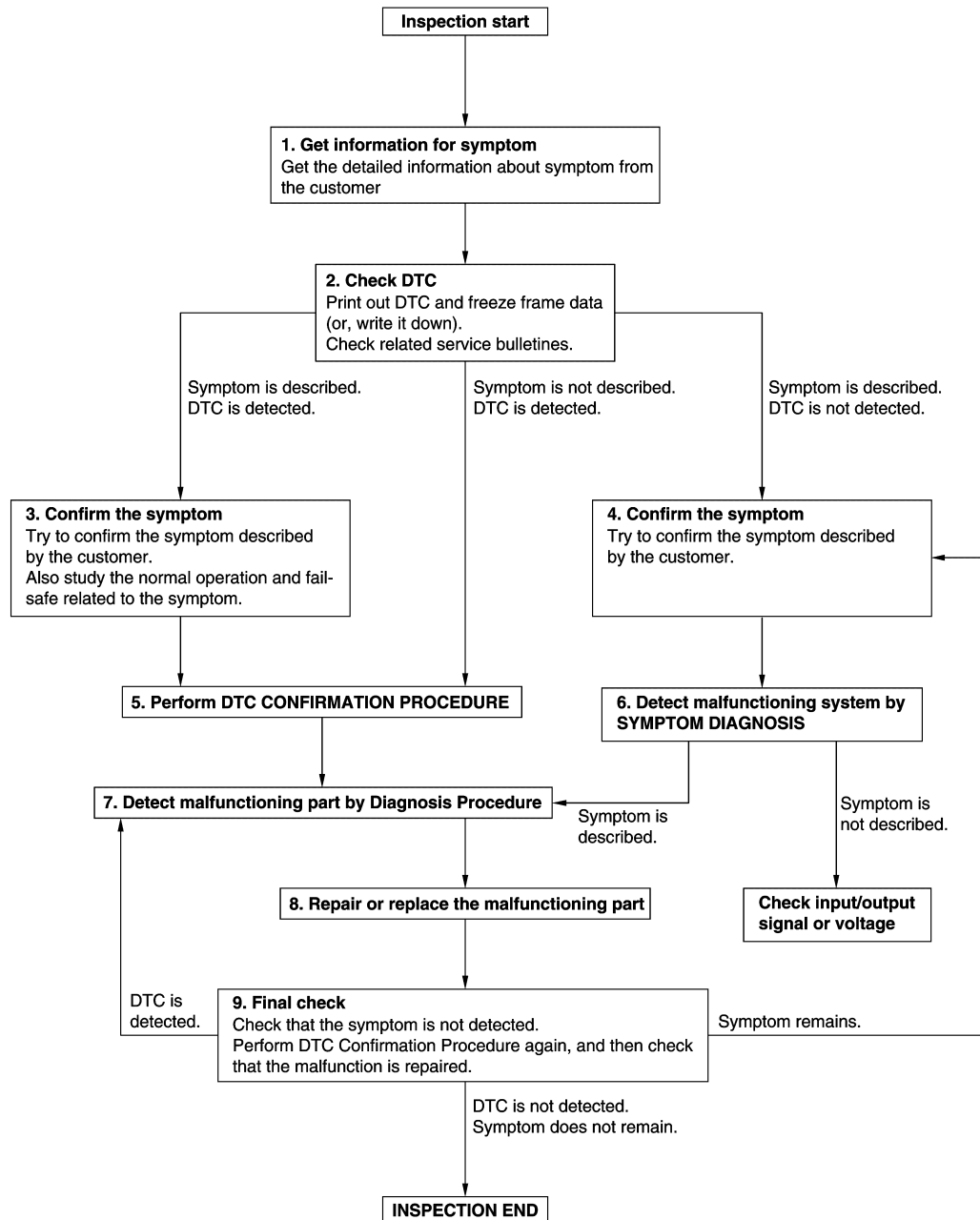
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012356133

OVERALL SEQUENCE



DETAILED FLOW

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[LONG WHEEL BASE MODELS]

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 >

[LONG WHEEL BASE MODELS]

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.

A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

P

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000012356134

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

Component Function Check

INFOID:0000000012356135

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT ACTIVE TEST

1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
 - Rear spot lamp
 - Map lamp
 - Foot lamp
 - Trunk room lamp
 - Step lamp
 - Outside handle lamp
 - Vanity mirror 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 the interior room lamp turn ON/OFF?

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

NO >> Refer to [INL-146, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356136

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - Rear spot lamp
 - Map lamp
 - Foot lamp (both sides)
 - Trunk room lamp
 - Step lamp (ALL)
 - Outside handle lamp (both sides)
 - Vanity mirror lamp (both sides)
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				
M122	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 3.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

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.

BCM		Each interior room lamp		Continuity	
Connector	Terminal	Connector	Terminal		
M122	56	Rear spot lamp	R27	1	Existed
		Map lamp	R15		
		Foot lamp (driver side)	M186		
		Foot lamp (passenger side)	M114		
		Trunk room lamp	B47		
		Step lamp (driver side)	D12		
		Step lamp (passenger side)	D42		
		Step lamp (Rear LH)	D57		
		Step lamp (Rear RH)	D77		
		Front outside handle assembly LH	D17	3	
		Front outside handle assembly RH	D47		
		Vanity mirror lamp (driver side)	R12	2	
		Vanity mirror lamp (passenger side)	R13		

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		
M122	56		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).
 NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000012356137

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:0000000012356138

NOTE:

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

- Interior room lamp power supply
- Map lamp bulb
- Rear spot lamp bulb
- Foot 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-148, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356139

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

ⓅCONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of map lamp, foot lamp and rear spot 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				
M122	63		INT LAMP	On	Existed
				Off	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-95, "Removal and Installation"](#).

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

BCM		Foot lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	Driver side	M186	Existed
		Passenger side	M114	

4. Check continuity between BCM harness connector and map lamp harness connector.

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M122	63	R15	2	Existed

5. Check continuity between rear spot lamp harness connector and map lamp harness connector.

Rear spot lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
R27	3	R15	4	Existed

Is the inspection result normal?

YES >> Replace map lamp, rear spot lamp or foot lamp.

NO >> Repair or replace harnesses.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M122	63		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

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

INL

TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:0000000012356140

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

Diagnosis Procedure

INFOID:0000000012356141

NOTE:

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

- Interior room lamp power supply
- Trunk room lamp bulb

1.CHECK TRUNK ROOM LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal				
M121	49		Trunk lid	Open	Existed
				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-95. "Removal and Installation"](#).

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M121	49	B47	2	Existed

Is the inspection result normal?

YES >> Replace trunk room lamp.

NO >> Repair or replace harnesses.

3.CHECK TRUNK ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M121	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

STEP LAMP CIRCUIT

Description

INFOID:0000000012356142

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

Component Function Check

INFOID:0000000012356143

NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

1.CHECK STEP LAMP OPERATION

CONSULT ACTIVE TEST

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

On : Step lamp ON

Off : Step lamp OFF

Does the step lamp turn ON/OFF?

YES >> Step lamp circuit is normal.

NO >> Refer to [INL-151, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356144

1.CHECK STEP LAMP OUTPUT

CONSULT ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove the step lamp bulbs (ALL).
3. Turn ignition switch ON.
4. Select "STEP LAMP TEST" 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		STEP LAMP TEST	On	Existed
M122	62			Off	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-95, "Removal and Installation"](#).

2.CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M122	62	Driver side	D12	2	Existed
		Passenger side	D42		
		Rear LH	D57		
		Rear RH	D77		

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

Is the inspection result normal?

YES >> Replace step lamp.

NO >> Repair or replace harnesses.

3. CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M122	62		Not existed

Is the inspection result normal?

YES >> Repair or replace harnesses.

NO >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

OUTSIDE HANDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP CIRCUIT

Description

INFOID:0000000012356145

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

Diagnosis Procedure

INFOID:0000000012356146

NOTE:

Before performing the diagnosis, check that the interior room lamp power supply is normal.

1.CHECK OUTSIDE HANDLE LAMP OUTPUT

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

BCM		Ground	Condition		Continuity	
Connector	Terminal					
M123	72		Any door	Open	Existed	
				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-95. "Removal and Installation"](#).

2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

Check continuity between BCM harness connector and outside handle lamp harness connector.

BCM		Outside Handle lamp		Continuity
Connector	Terminal	Connector	Terminal	
M123	72	LH	D17	Existed
		RH	D47	

Is the inspection result normal?

YES >> Replace outside handle lamp.

NO >> Repair or replace harnesses.

3.CHECK OUTSIDE HANDLE LAMP SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95. "Removal and Installation"](#).

NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000012356147

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

Component Function Check

INFOID:0000000012356148

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-154, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000012356149

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 items, check voltage between push-button ignition switch harness connector and ground.

(+)Push-button ignition switch		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M50	3	Ground	ENGINE SW ILLUMI	ON12 V
				OFF0 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 ignition switch OFF.
2. Disconnect BCM connector and push-button ignition switch 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	
M123	90	M50	3	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harnesses.

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

Check continuity between BCM harness connector and ground.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

BCM		Ground	Continuity
Connector	Terminal		
M123	90		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

NO >> Repair or replace harnesses.

4.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT-1

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

(+)		(-)	Voltage (Approx.)
BCM			
Connector	Terminal		
M123	92	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-95, "Removal and Installation"](#).

5.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M50	2	M123	92	Existed

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M50	2		Not existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

INL

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[LONG WHEEL BASE MODELS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000012356150

NOTE:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

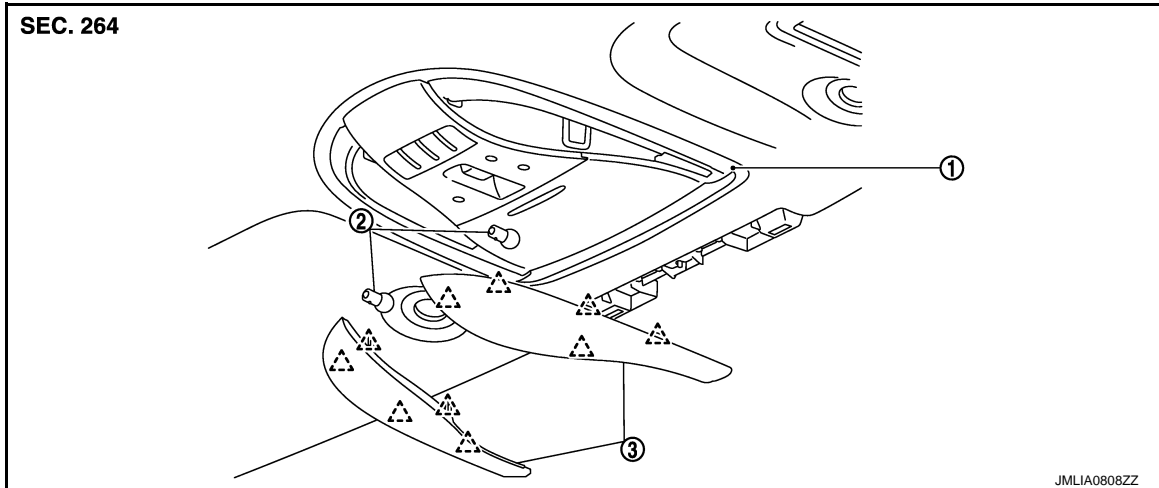
Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. <ul style="list-style-type: none"> • Map lamp • Rear spot lamp • Vanity mirror lamp • Foot lamp • Step lamp • Outside handle lamp • Trunk room lamp 	<ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM 	Interior room lamp power supply circuit Refer to INL-146 .
<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-87 . Interior room lamp control circuit Refer to INL-148 .
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-101 .
<ul style="list-style-type: none"> • Outside handle lamp does not turn ON even though the door is open. • Outside handle 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 outside handle lamp • BCM 	Door switch circuit Refer to DLK-87 . Outside handle lamp circuit Refer to INL-153 .
<ul style="list-style-type: none"> • Trunk room lamp does not turn ON even though the trunk lid is open. (It turns ON when turning the trunk room lamp ON.) • Trunk room lamp does not turn OFF even though the trunk lid is closed. 	<ul style="list-style-type: none"> • Harness between BCM and trunk closure assembly • Harness between BCM and trunk room lamp • BCM 	Trunk lid open signal circuit Refer to DLK-101 . Trunk room lamp circuit Refer to INL-150 .
<ul style="list-style-type: none"> • Step lamps (ALL) do not turn ON. • Step lamps (ALL) do not turn OFF. 	<ul style="list-style-type: none"> • Harness between BCM and each step lamp • BCM 	Door switch circuit Refer to DLK-87 . Step lamp circuit Refer to INL-151 .
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-154 .
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-95 .

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000012356151



1. Map lamp assembly

2. Bulb

3. Lens

△ : Pawl

Removal and Installation

INFOID:0000000012356152

REMOVAL

1. Open sunroof glass.

CAUTION:

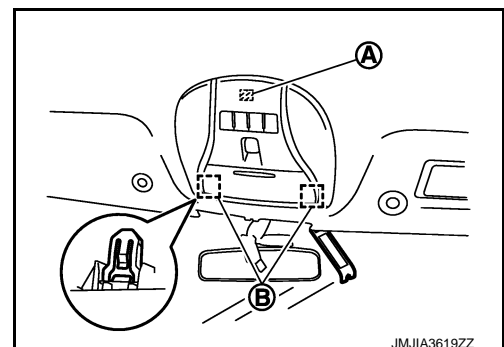
Disconnect battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

2. Remove all assist grips. Refer to [INT-57, "Removal and Installation"](#).
3. Remove center pillar upper garnish (LH and RH). Refer to [INT-46, "CENTER PILLAR UPPER GARNISH : Removal and Installation"](#).
4. Remove partially front body side welt (headlining side).
5. Remove front pillar garnish. Refer to [INT-39, "FRONT PILLAR GARNISH : Removal and Installation"](#).
6. Remove lane camera unit finisher. Refer to [INT-57, "Removal and Installation"](#).
7. Remove sun visor assembly (LH and RH). Refer to [INT-57, "Removal and Installation"](#).
8. Remove front roof finisher. Refer to [INT-57, "Removal and Installation"](#).
9. Remove sun visor holder (LH and RH). Refer to [INT-57, "Removal and Installation"](#).
10. Insert a remover tool between headlining and roof panel, and disengage fixing metal clips (B). Pull down map lamp assembly to disengage joint dual-lock fastener (A).

CAUTION:

- When removing, always use a remover tool that is made of plastic.
- Map lamp is crimped from back of headlining.
- To prevent damage of sunroof, hold sunroof with a rope or tape before removal operation.

□ : Metal clip



11. Remove map lamp assembly.

NOTE:

MAP LAMP

< REMOVAL AND INSTALLATION >

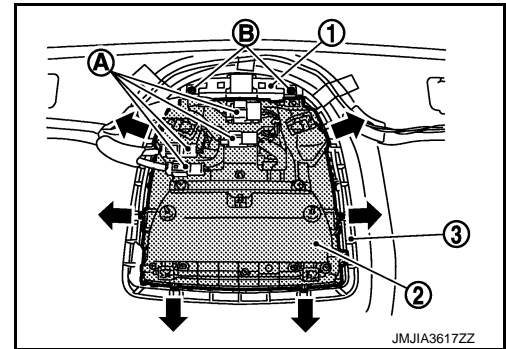
[LONG WHEEL BASE MODELS]

Operate from the opening part of sunroof to ease the work.

- Remove harness connector (A).
- Remove fixing screws (B), and then remove map lamp bracket (1).
- Remove map lamp back plate (3) from headlining while pressing engagement of each pawls in the direction as shown in the figure.

CAUTION:

When removing, support map lamp assembly (2) by hand so that it does not drop during the operation.



INSTALLATION

Install in the reverse order of removal.

Replacement


INFOID:000000012356153

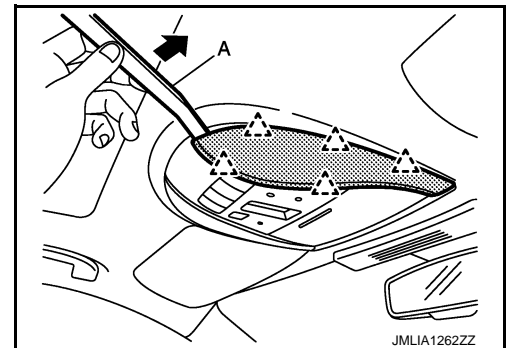
CAUTION:

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

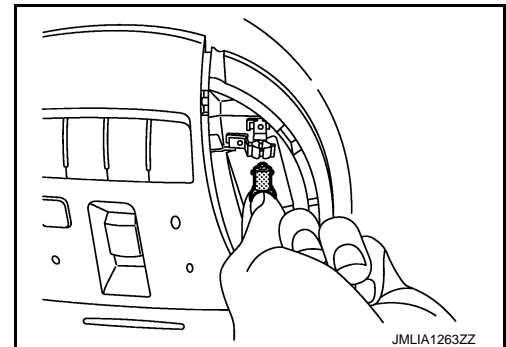
MAP LAMP BULB

1. Insert a remover tool (A) into the gap between lens to disengage fixing pawls as shown by the arrow in the figure, and then remove lens.

 : Pawl



2. Rotate bulb clockwise or counterclockwise by 90° and remove bulb as shown in the figure.



VANITY MIRROR LAMP

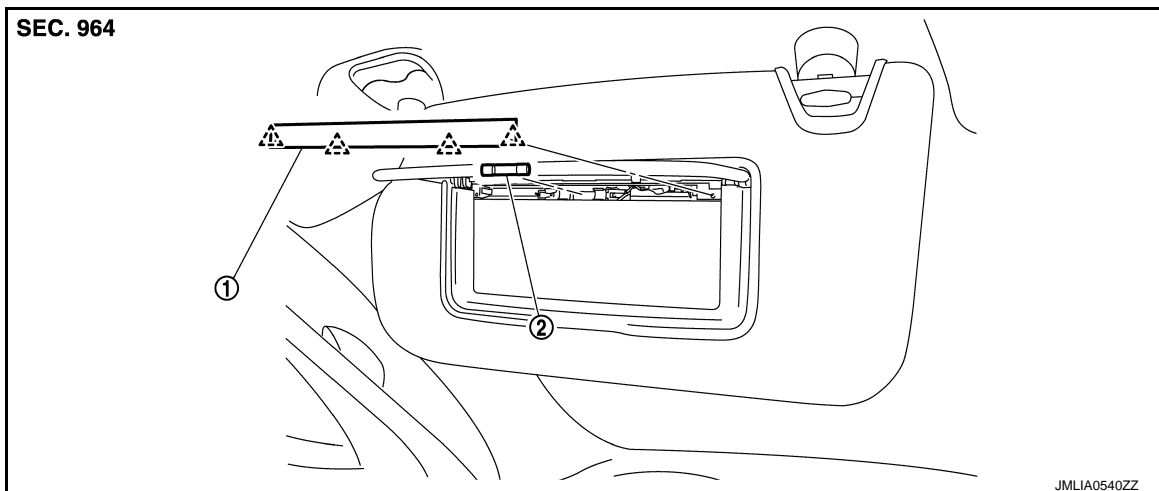
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

VANITY MIRROR LAMP

Exploded View

INFOID:0000000012356154



1. Lens

2. Bulb

△ : Pawl

Replacement

INFOID:0000000012356155

CAUTION:

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

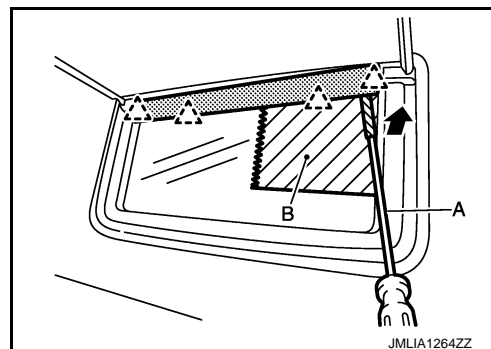
VANITY MIRROR LAMP BULB

1. Insert a remover tool (A) into the gap between lens to disengage fixing pawls as shown by the arrow in the figure, and then remove lens.

CAUTION:

- Use a remover tool wrapped in tape.
- Apply protective tape (B) around vanity mirror to protect the surface from damage.

△ : Pawl



2. Remove bulb.

CIGARETTE LIGHTER ILLUMINATION

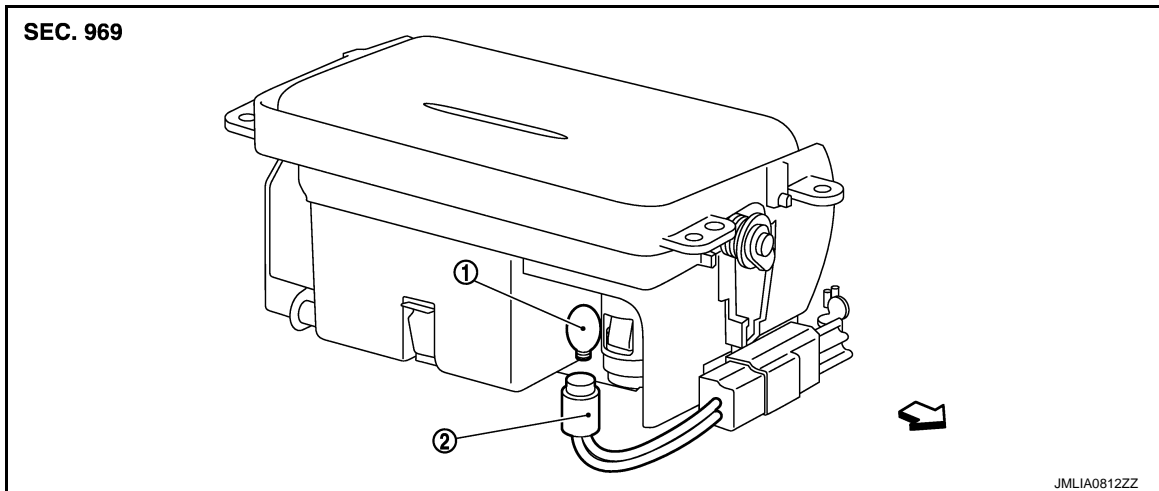
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

CIGARETTE LIGHTER ILLUMINATION

Exploded View

INFOID:0000000012356156



1. Bulb

2. Bulb socket

↗ : Vehicle front

Removal and Installation

INFOID:0000000012356157

- Remove console finisher assembly. Refer to [IP-24, "Removal and Installation"](#). Removal and Installation.
- Remove ashtray assembly. Refer to [IP-24, "Removal and Installation"](#). Disassembly and assembly of center console assembly.

Replacement

INFOID:0000000012356158

CAUTION:

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

CIGARETTE LIGHTER ILLUMINATION BULB

1. Remove console finisher assembly, and then remove ashtray assembly. Refer to [IP-24, "Removal and Installation"](#).
2. Rotate bulb socket counterclockwise to unlock it.
3. Remove bulb.

REAR DOOR ASHTRAY ILLUMINATION

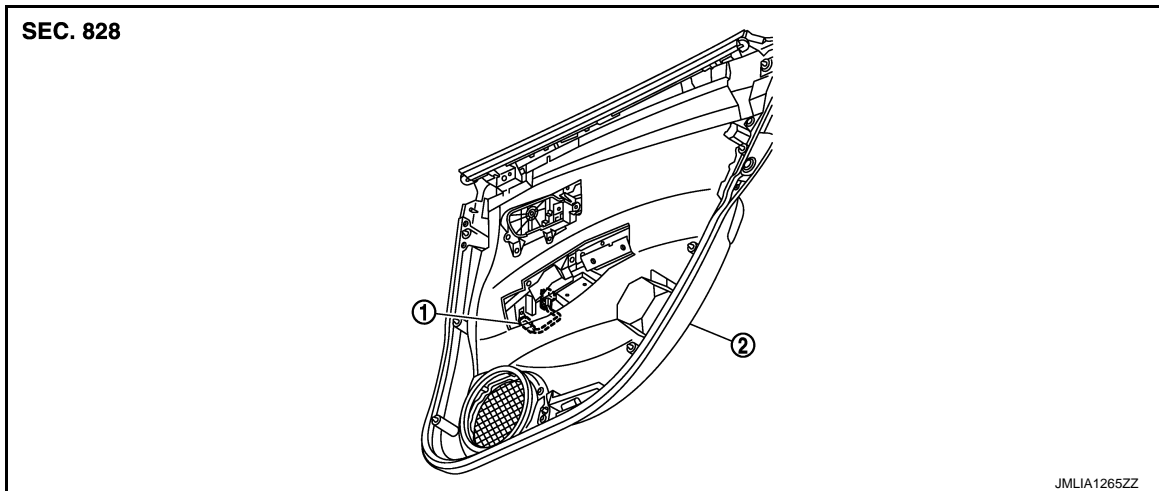
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

REAR DOOR ASHTRAY ILLUMINATION

Exploded View

INFOID:0000000012356159



1. Ashtray lamp assembly

2. Rear door finisher

Removal and Installation

INFOID:0000000012356160

Refer to [INT-33, "Exploded View"](#) for rear door finisher installation or removal.

Replacement

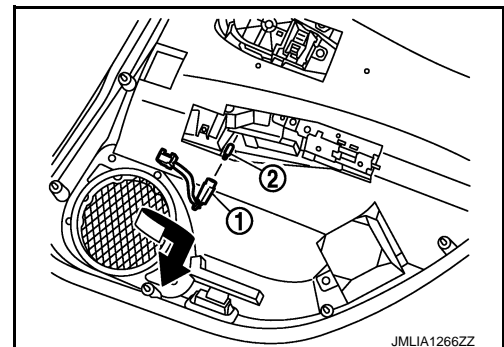
INFOID:0000000012356161

CAUTION:

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

ASHTRAY ILLUMINATION BULB

1. Remove rear door finisher. Refer to [INT-34, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Rotate bulb socket (1) counterclockwise to unlock it.
3. Remove bulb (2) from bulb socket.



GLOVE BOX LAMP

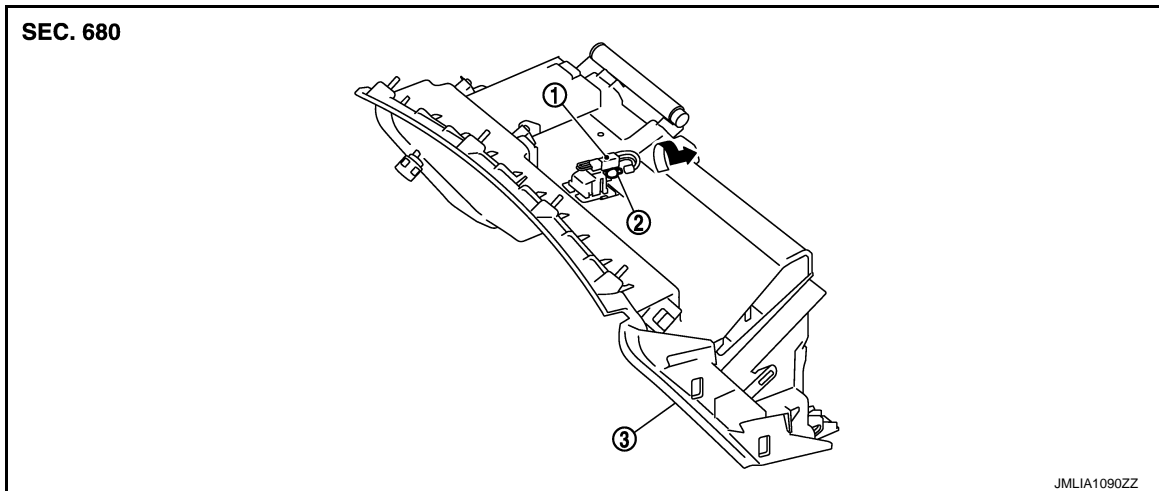
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

GLOVE BOX LAMP

Exploded View

INFOID:0000000012356162



1. Bulb socket

2. Bulb

3. Instrument lower panel
(Passenger side)

Removal and Installation

INFOID:0000000012356163

Refer to [IP-12, "Exploded View"](#) for instrument lower panel RH installation or removal.

Replacement

INFOID:0000000012356164

CAUTION:

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

GLOVE BOX LAMP BULB

1. Remove instrument lower cover. Refer to [IP-13, "Removal and Installation"](#).
2. Remove glove box assembly, and then remove instrument lower panel RH. Refer to [IP-13, "Removal and Installation"](#).
3. Rotate bulb socket counterclockwise to unlock it.
4. Remove bulb.

FOOT LAMP

< REMOVAL AND INSTALLATION >

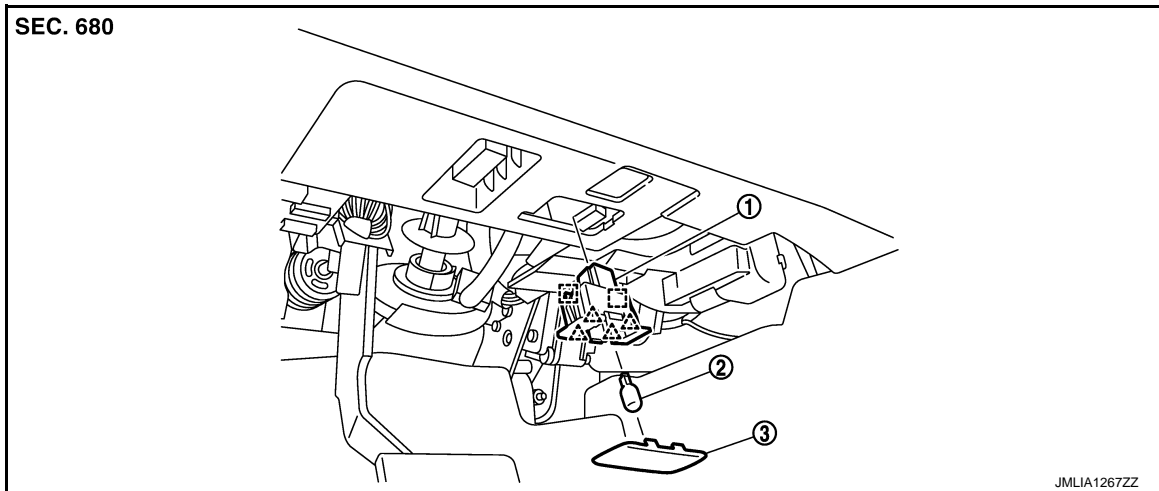
[LONG WHEEL BASE MODELS]

FOOT LAMP

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000012356165



DRIVER SIDE : Removal and Installation

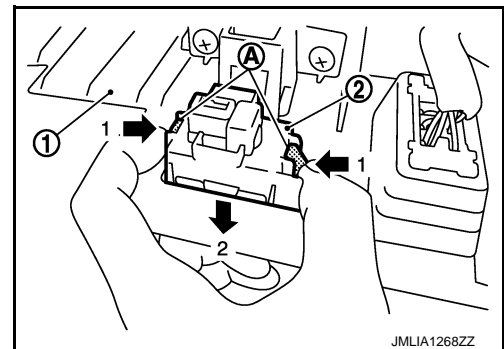
INFOID:0000000012356166

CAUTION:

Disconnect battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-13, "Removal and Installation"](#)
2. Disconnect foot lamp harness connector.
3. Remove foot lamp case (2) from instrument lower panel LH (1) downward while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



INSTALLATION

Install in the reverse order of removal.

DRIVER SIDE : Replacement

INFOID:0000000012356167

CAUTION:

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

FOOT LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]


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

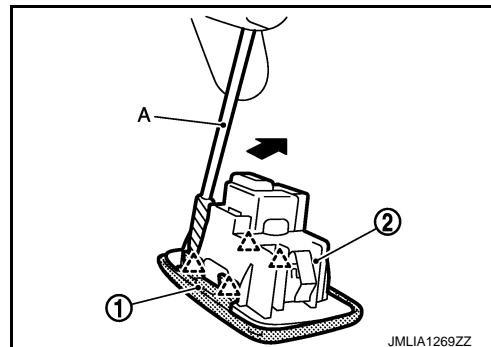
FOOT LAMP BULB

1. Remove foot lamp assembly. Refer to [INL-163, "DRIVER SIDE : Removal and Installation"](#).
2. Remove lens (1).
 - Insert a remover tool (A) into the gap between lens and foot lamp case (2).

CAUTION:
Use a remover tool wrapped in tape.

 - Disengage fixing pawls, and then remove lens.

 : Pawl

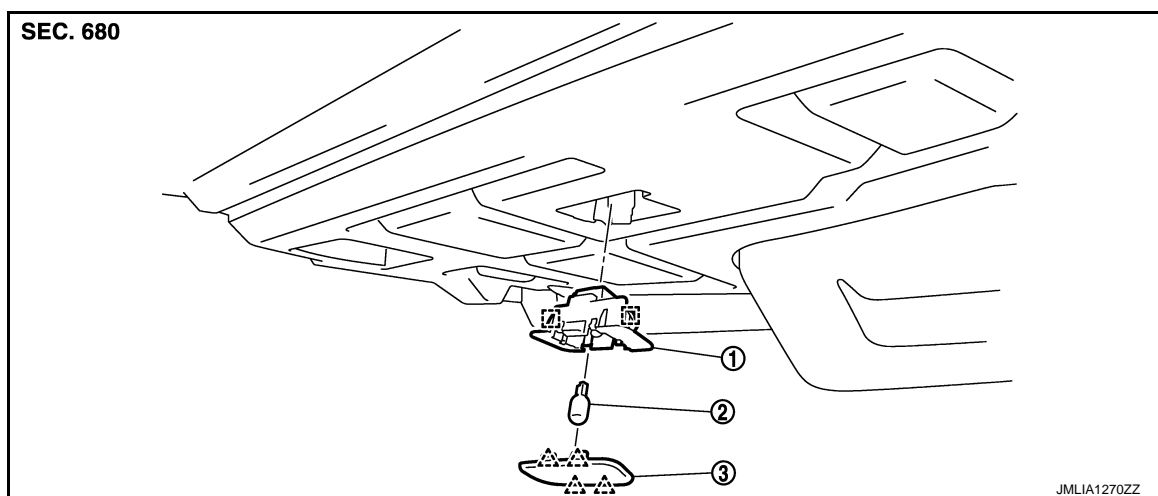


3. Remove bulb.

PASSENGER SIDE

PASSENGER SIDE : Exploded View


INFOID:0000000012356168




1. Foot lamp case

2. Bulb

3. Lens

 : Pawl

 : Metal clip

PASSENGER SIDE : Removal and Installation

INFOID:0000000012356169

CAUTION:

Disconnect battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

REMOVAL

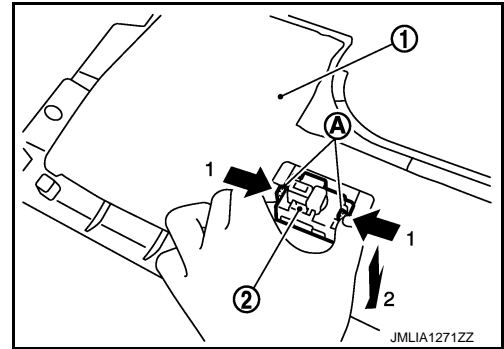
1. Remove instrument lower cover. Refer to [IP-13, "Removal and Installation"](#)
2. Disconnect foot lamp harness connector.

FOOT LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

3. Remove foot lamp case (2) from instrument lower cover downward while pressing metal clips (A), in the directions indicated by arrows as shown in the figure.



INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE : Replacement

INFOID:0000000012356170

CAUTION:

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


FOOT LAMP BULB

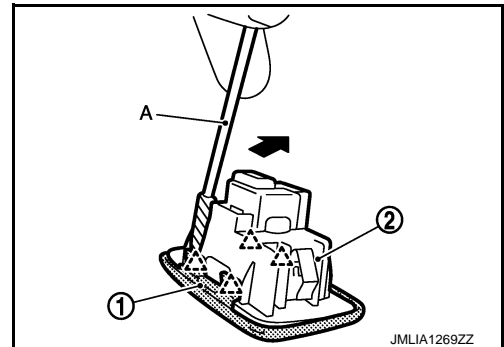
1. Remove foot lamp assembly. Refer to [INL-164. "PASSENGER SIDE : Removal and Installation"](#).
2. Remove lens (1).
 - Insert a remover tool (A) into the gap between lens and foot lamp case (2).

CAUTION:

Use a remover tool wrapped in tape.

- Disengage fixing pawls, and then remove lens.

 : Pawl



3. Remove bulb.

STEP LAMP

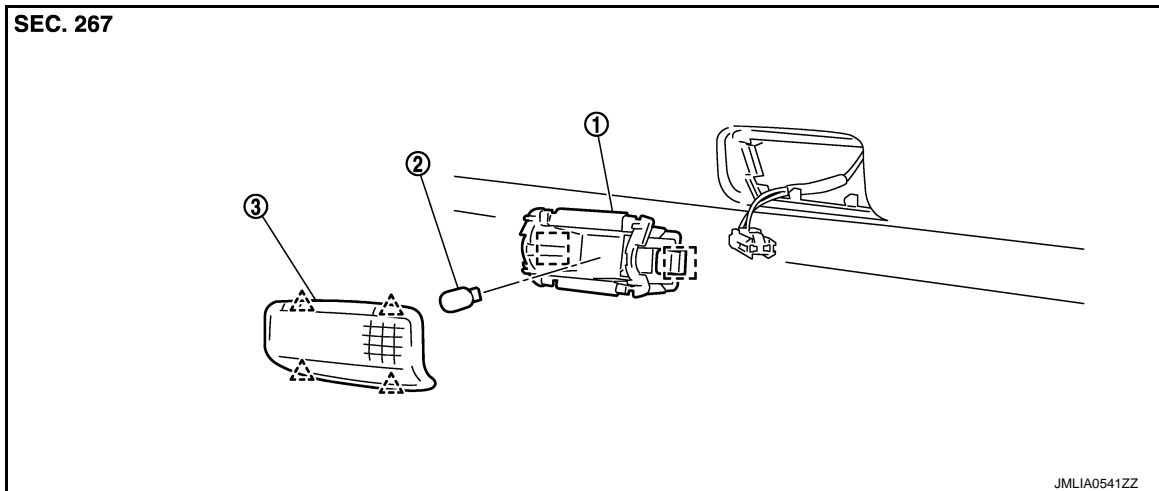
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

STEP LAMP

Exploded View

INFOID:000000012356171



1. Step lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:000000012356172

CAUTION:

Disconnect battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

REMOVAL

1. Insert a remover tool into the gap between step lamp case and door finisher to remove step lamp case.
2. Disconnect step lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000012356173

CAUTION:

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

STEP LAMP BULB

1. Insert a remover tool into the gap between lens to remove lens.
2. Remove bulb.

REAR SPOT LAMP

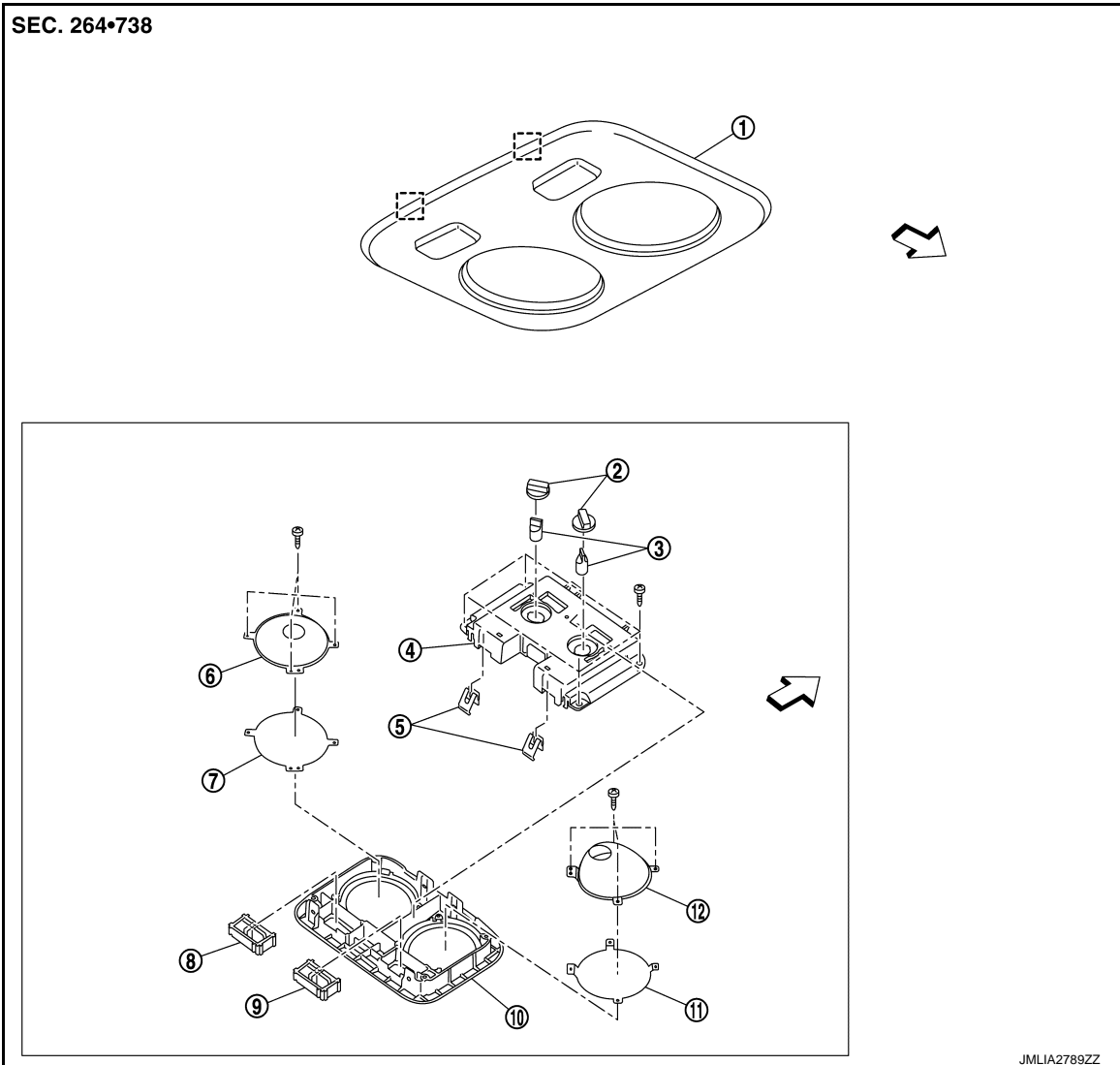
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

REAR SPOT LAMP

Exploded View

INFOID:0000000012356174



A

B

C

D

E

F

G

H

I

J

K

INL

M

N

O

P

- | | | |
|----------------------------|---------------|------------------|
| 1. Rear spot lamp assembly | 2. Bulb base | 3. Bulb |
| 4. Lamp housing | 5. Metal clip | 6. Reflector LH |
| 7. Lens LH | 8. Knob LH | 9. Knob RH |
| 10. Lamp cover | 11. Lens RH | 12. Reflector RH |

□ : Metal clip

↶ : Vehicle front

Removal and Installation

INFOID:0000000012356175

CAUTION:

Disconnect battery negative terminal or remove power circuit fuse while performing the operation to prevent electric leakage.

REMOVAL

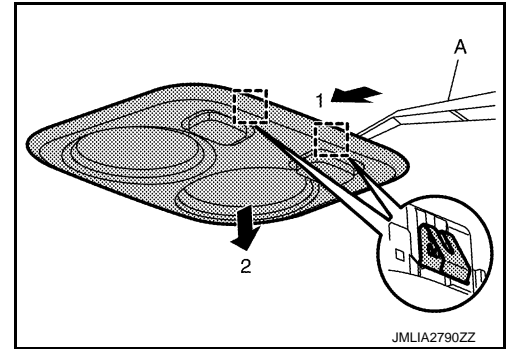
REAR SPOT LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

1. Disengage fixing metal clips using a remover tool (A), and then remove rear spot lamp assembly as shown by the arrow in the figure.

[] : Metal clip



2. Disconnect harness connector, and then remove rear spot lamp assembly.

INSTALLATION

Install in the reverse order of removal.

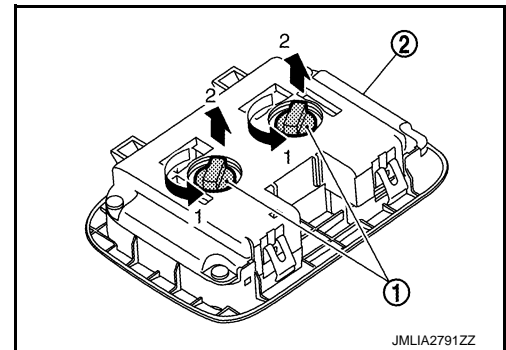
Replacement

INFOID:000000012356176

CAUTION:

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

1. Remove rear spot lamp assembly. Refer to [INL-167, "Removal and Installation"](#).
2. Remove bulb base (1) from rear spot lamp assembly (2), according to the procedures indicated by the arrows as shown in the figure.



3. Remove bulb from bulb base.

OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP

Exploded View

INFOID:0000000012356177

Always replace outside handle lamp together with outside handle as a set, when replacing since outside handle lamp is integrated with outside handle. Refer to [DLK-212. "OUTSIDE HANDLE : Removal and Installation"](#).

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

TRUNK ROOM LAMP

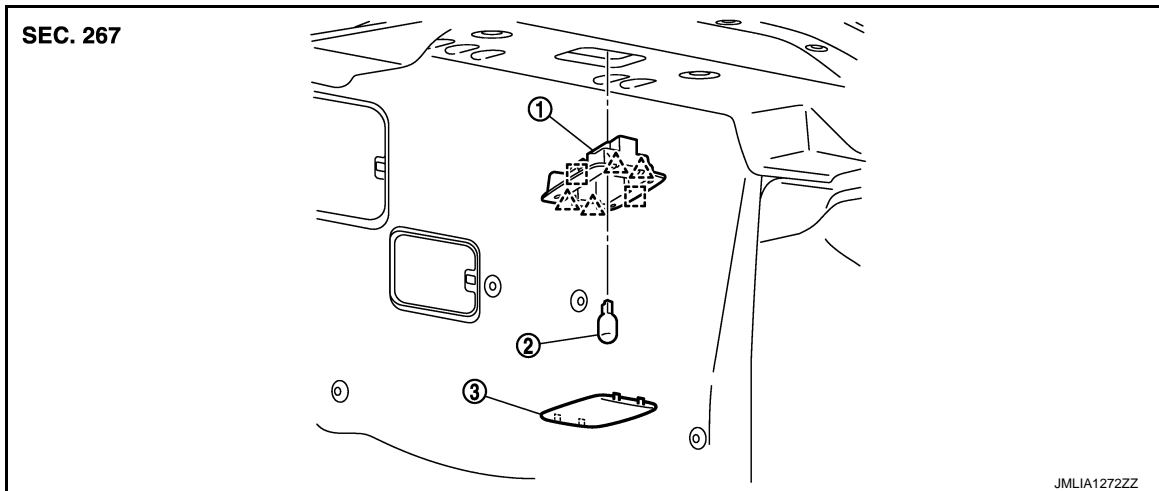
< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

TRUNK ROOM LAMP

Exploded View

INFOID:000000012356178



1. Trunk room lamp case

2. Bulb

3. Lens

△ : Pawl

□ : Metal clip

Removal and Installation

INFOID:000000012356179

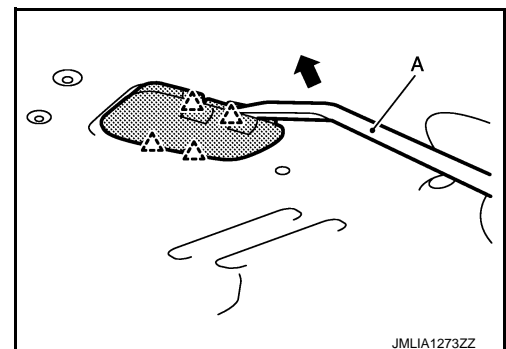
CAUTION:

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

REMOVAL

1. Insert a remover tool (A) into the gap between lens to disengage fixing pawls as shown by the arrow in the figure, and then remove lens.

△ : Pawl



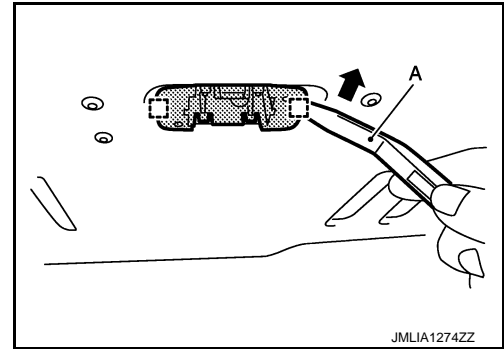
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

2. Insert a remover tool (A) into the gap between trunk room lamp case to disengage fixing metal clips as shown by the arrow in the figure, and then remove trunk room lamp case.

□ : Metal clip



3. Disconnect trunk room lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000012356180

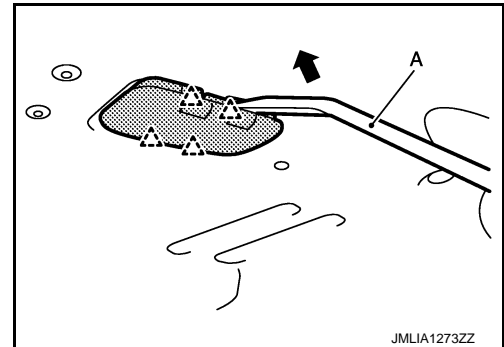
CAUTION:

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

TRUNK ROOM LAMP BULB

1. Insert a remover tool (A) into the gap between lens to disengage fixing pawls as shown by the arrow in the figure, and then remove lens.

△ : Pawl



2. Remove bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[LONG WHEEL BASE MODELS]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000012356181

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	—	8
Console lamp (Integrated into the map lamp assembly)	LED	—
Vanity mirror lamp	—	2
Cigarette lighter illumination (Common use with ashtray illumination)	Wedge	1.1
Rear door ashtray illumination	Wedge	2
Glove box lamp	Wedge	2
Foot lamp	Wedge	3.4
Step lamp	Wedge	5
Rear spot lamp	Wedge	10
Outside handle lamp	LED	—
Trunk room lamp	Wedge	5