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PRECAUTION

PRECAUTIONS

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

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

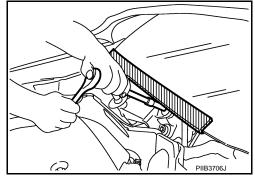
WARNING:

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

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

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.

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PRECAUTIONS

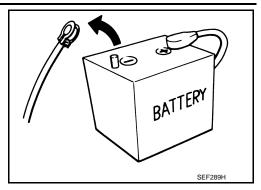
< PRECAUTION >

[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 : 4 minutes ZD30DDTi : 60 seconds K9K engine 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

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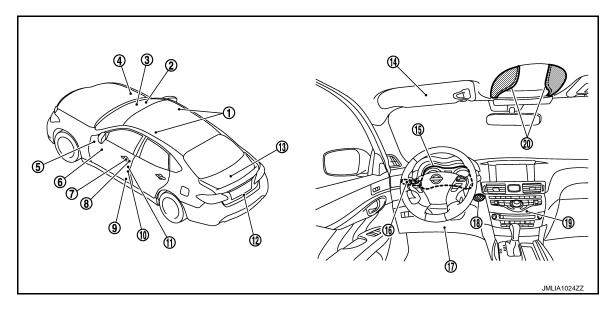
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- Personal lamp*
- IPDM E/R
 Refer to PCS-5, "IPDM E/R: Component Parts Location".
- 7. Outside handle lamp
- 10. Door switch
- 13. Trunk room lamp
- 16. Combination switch
- 19. AV control unit
 - Base audio without navigation:
 Refer to AV-13, "Component Parts
 Location".
 - BOSE audio with navigation: Refer to AV-150, "Component Parts Location".

- Remote keyless entry receiver Refer to <u>DLK-10</u>, "<u>DOOR LOCK</u> <u>SYSTEM</u>: <u>Component Parts Location</u>".
- BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location".
- 8. Front door request switch (driver side)
- Front door lock assembly (driver side) (door key cylinder switch, unlock sensor)
- 14. Vanity mirror lamp
- 17. Foot lamp
- 20. Map lamp

- Optical sensor
- 6. Door lock and unlock switch
- 9. Step lamp
- 12. Trunk closure assembly
- 15. Combination meter
- 18. Push-button ignition switch

*: With personal lamp.

INTERIOR LIGHTING SYSTEM : Component Description

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.

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COMPONENT PARTS

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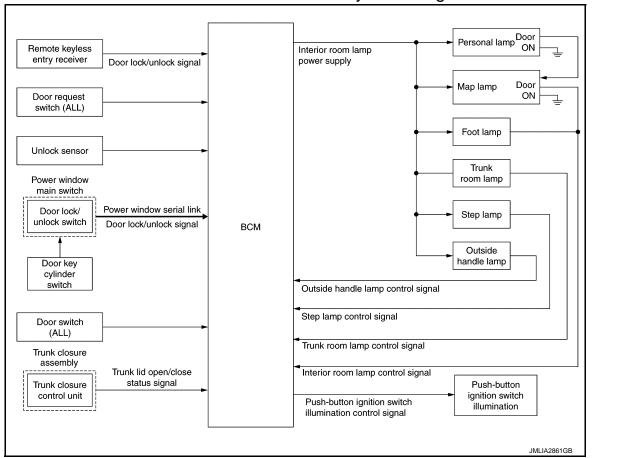
[SHORT WHEEL BASE MODELS]

Part	Description
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "COMBINATION SWITCH READING SYSTEM: System Description".
Door lock and unlock switchDoor request switchDoor 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



INTERIOR ROOM LAMP CONTROL SYSTEM: System Description

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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

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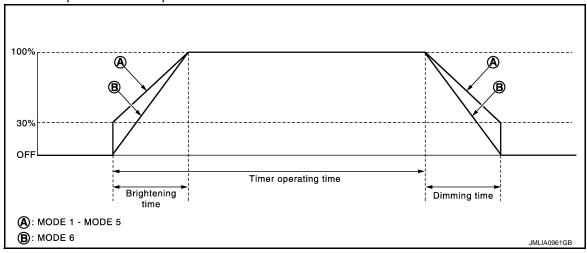
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Interior Room Lamp Timer Basic Operation



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

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

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, pushbutton 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
- Driver side door from unlock to lock
- 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

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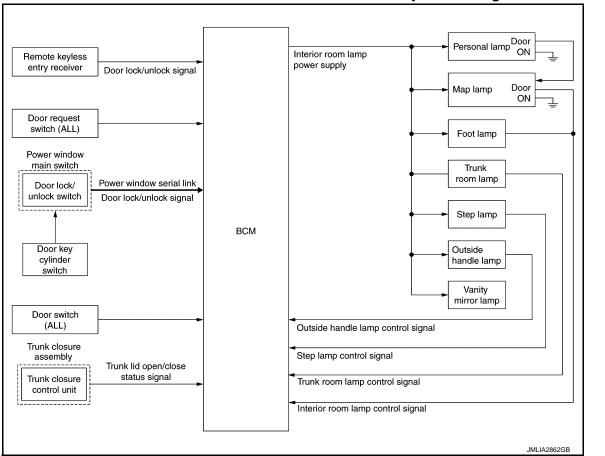
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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Diagram



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description

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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

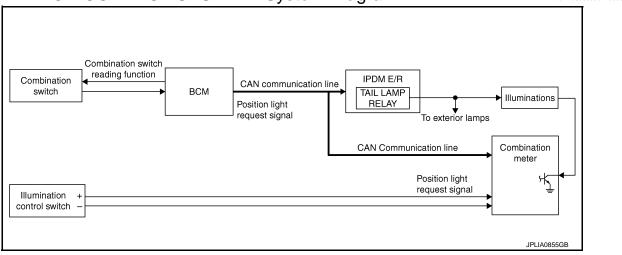
- When the ignition switch is turned is other position than ON, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- BCM restart the timer when any of the following signals changes while operating the timer.
- Ignition switch status
- Door switch signal (ALL)
- Trunk 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:

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



ILLUMINATION CONTROL SYSTEM : System Description

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OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

Relay control function

Control by combination meter

Meter illumination control function (Refer to <u>MWI-17</u>, "<u>METER ILLUMINATION CONTROL</u>: <u>System Description</u>".)

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

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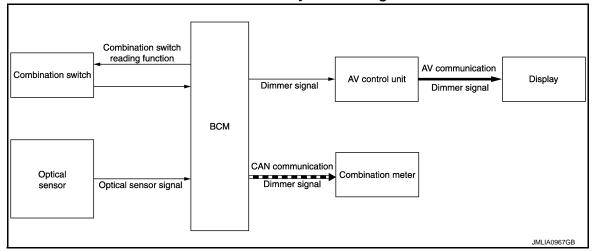
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AUTO LIGHT ADJUSTMENT SYSTEM: System Diagram

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AUTO LIGHT ADJUSTMENT SYSTEM: System Description

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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 CON-SULT. 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)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description			
Work Support	nanges the setting for each system function.			
Self Diagnostic Result	splays the diagnosis results judged by BCM.			
CAN Diag Support Monitor	onitors 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	 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.

x: Applicable item Diagnosis mode System Sub system selection item Work Support **Data Monitor** Active Test Door lock DOOR LOCK × X REAR DEFOGGER Rear window defogger X X Warning chime **BUZZER** × X Interior room lamp timer INT LAMP × × × Exterior lamp **HEAD LAMP** × × × **WIPER** Wiper and washer × **FLASHER** Turn signal and hazard warning lamps × × AIR CONDITONER* · Intelligent Key system INTELLIGENT KEY × × X · Engine start system Combination switch COMB SW X Body control system **BCM** × **IVIS - NATS IMMU** X \times \times **BATTERY SAVER** Interior room lamp battery saver X \times X Trunk lid open **TRUNK** × THEFT ALM Vehicle security system X \times \times RAP system **RETAINED PWR** X Signal buffer system SIGNAL BUFFER X X AIR PRESSURE MONITOR* × X X

FREEZE FRAME DATA (FFD)

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

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< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC	Power position status of the moment a particular DTC is detected*	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"*	
Vehicle Condition	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 The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 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

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

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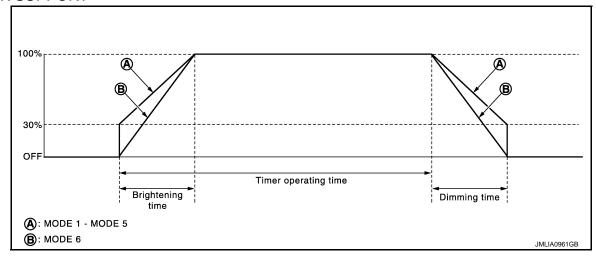
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WORK SUPPORT



Service item	Setting item	Setting		
SET I/L D-UNLCK INTCON	On*	With the interior room lamp timer function		
SET I/L D-ONLOR INTOON	Off	Without th	ne interior room lamp timer function	
	MODE 2	7.5 sec.		
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)	
	MODE 4	30 sec.		
ROOM LAMP ON TIME SET	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.	
	MODE 4	3 sec.		
	MODE 5	0 sec.		
	MODE 6*	Gradually	Gradually brightens from 0% to 100% brightness in 1 second.	
	MODE 1	0.5 sec.		
	MODE 2	1 sec.		
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.	
ROOM LAWP OFF TIME SET	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 ro	om lamp timer activates with synchronizing all doors.	
N LAWIT HIVIER LUGIC SET	MODE 2	Interior ro	om 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)

[SHORT WHEEL BASE MODELS]

Monitor item [Unit]	Description
REQ SW-RR [On/Off]	NOTE:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
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.
SIEF LAWIF IESI	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)

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[SHORT WHEEL BASE MODELS]

Service item	Setting item		Setting
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating
	MODE 2	60 min.	time. NOTE:
ROOM LAMP TIMER SET	MODE 3	15 min.	The factory setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
BATTERY SAVER SET	On*	With the	exterior lamp battery saver function
BATTERT SAVER SET	Off	Without th	ne exterior lamp battery saver function
	MODE 1	Without	
	MODE 2	30 min.	
IGN BATTERY SAVER SET	MODE 3*	10 min.	Sets the ignition battery saver timer operating time.
	MODE 4	5 min.	
	MODE 5	60 min.	
	MODE 1	Without	
	MODE 2*	30 min.	
ACC BATTERY SAVER SET	MODE 3	10 min.	Sets the accessory battery saver timer operating time.
	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:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
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

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Revision: April 2016

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.
DATTERT SAVER	On	Outputs the interior room lamp power supply to turn interior room lamps ON.*

^{*:} Each lamp switch is in ON position.

BCM

[SHORT WHEEL BASE MODELS]

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012356064	

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

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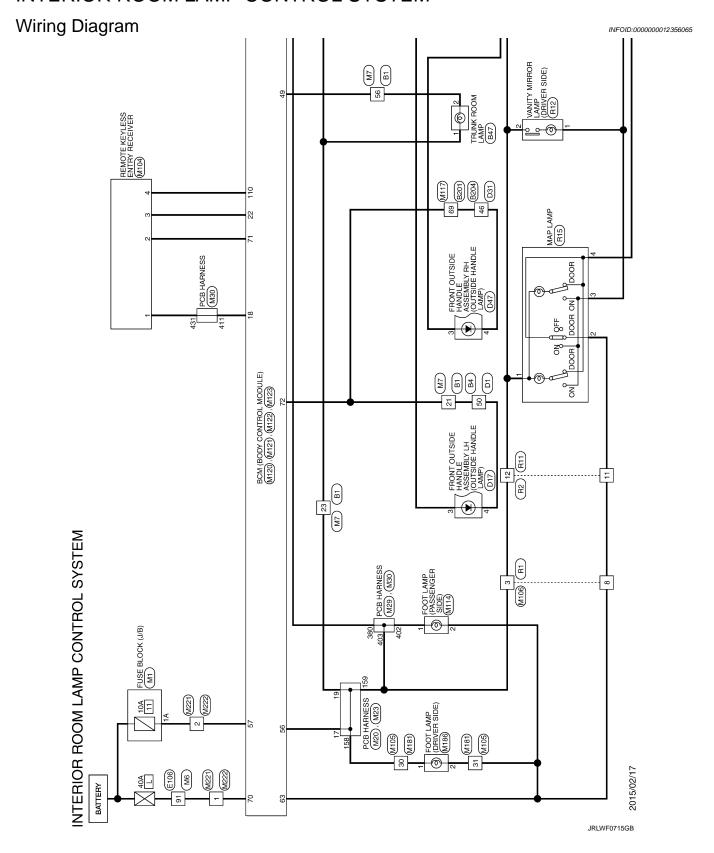
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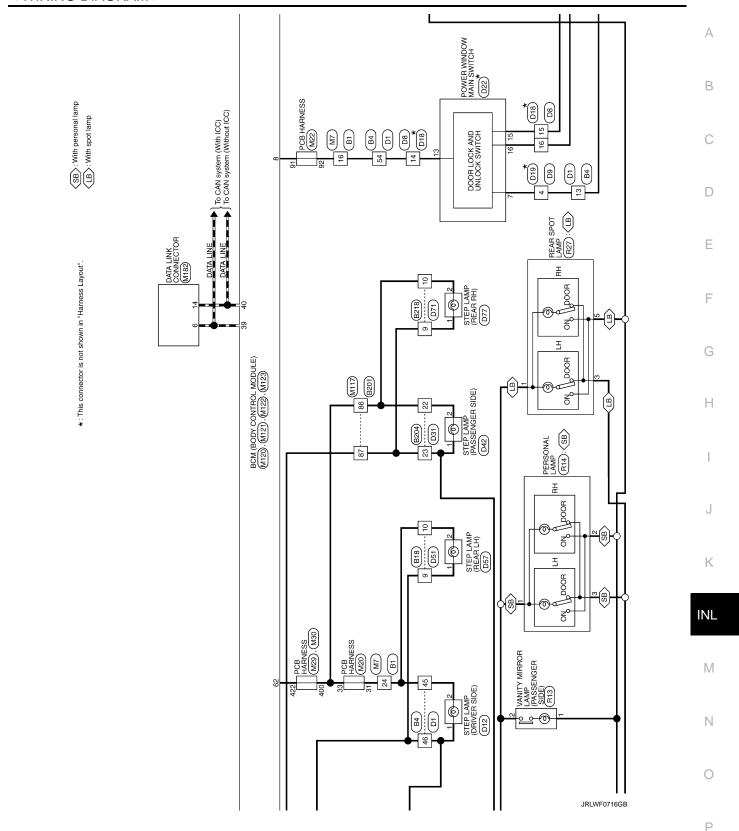
WIRING DIAGRAM

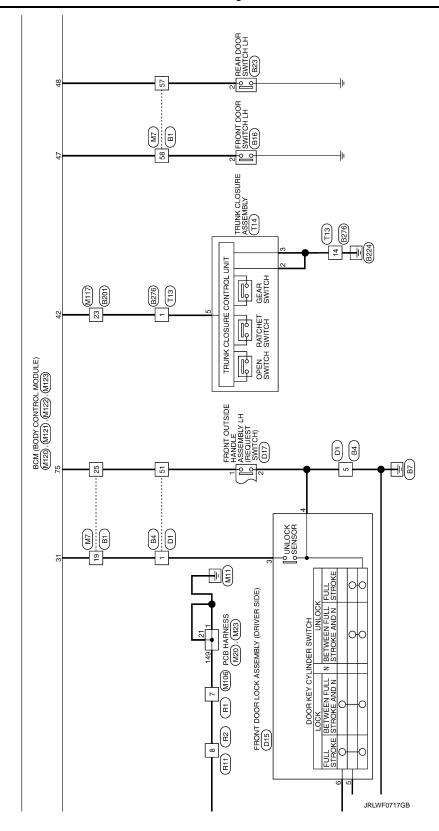
INTERIOR ROOM LAMP CONTROL SYSTEM



INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

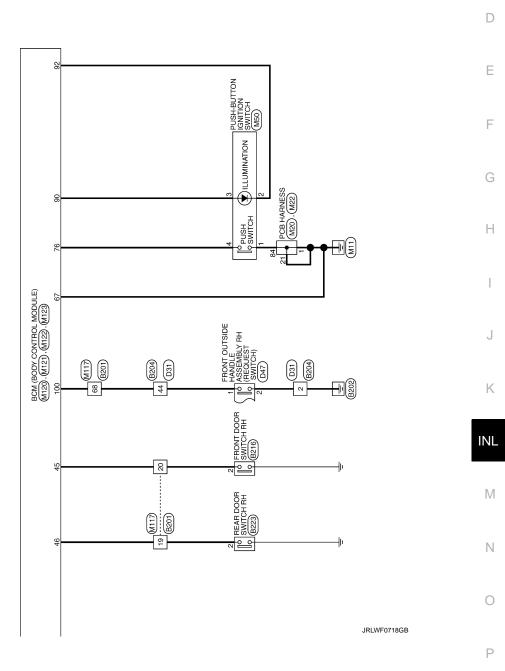


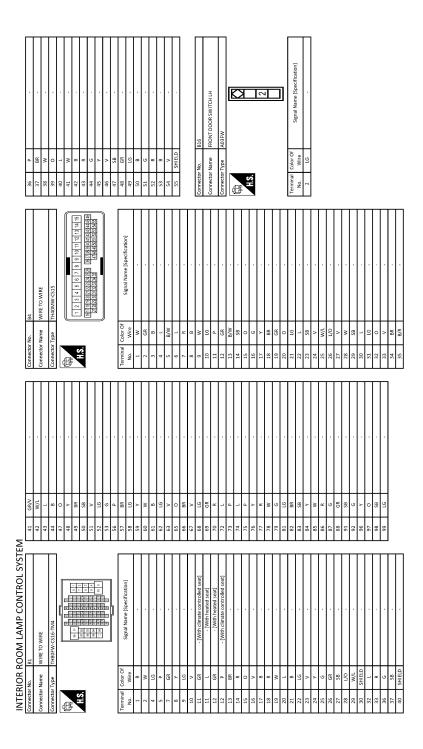


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INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

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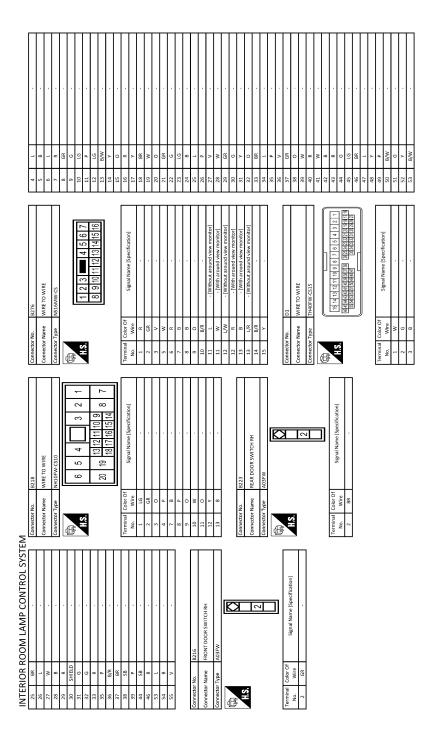
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INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

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- 1	85	83	84	82	98	87	88	88	90	91	95	93	94	95	46	98	66	100			Conne	Juno		Conne	¢	ß	7	1					Terminal	No.	-	2	4	S	7	00	6	10	11	11	12	12	13	14	15	16
INTERIOR ROOM LAMP CONTROL SYSTEM		•																								•							- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]	,											•		
RIOR F	_	^	В	GR	۸	SB	BR	٦	Ь	SHIELD	^	SB	BG	Ь	В	BG	Λ	G	BR	BR	>	BG	۸	9	BG	W	W	9	GR	В	ΓG	BR	٦	SB	ď	>	а	1	В	SHIELD	В	Μ	ч	9	λ.	В	SHIELD	В	۸	9
INTE	14	15	16	17	18	20	21	22	23	27	28	58	31	32	33	34	98	37	41	44	45	46	47	48	49	20	54	55	60	61	62	63	64	64	65	65	99	67	68	69	70	7.1	72	73	74	75	76	77	78	80

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INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

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		PCB HARNESS	TH40FW-N				or less but been	**************************************	400000			jo	0)		4	4	\downarrow	1	-							O.						4			1		4		\downarrow									
:	Connector No.	Connector Name	Connector Type		•	•	H.S.					Terminal Color Of	o. Wire	402 R	_	9 :	20 0	8 6	┸	L	13	┖	91 91	ᆫ	19 SB	20 SHIELD	422 V	27 P	78	429 P	_	31 B	4	+	4	4	ط 98	439 L	9 00									
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	ž >	. «					. BG	L	L	L			Connector No.		- 1	Connector Type				ı				I Color Of	Wire	æ		BG	_	4	SB	4	_	4	a.	4	>	4	4	Ц	Ц		91				_	
- 1	110	112	113	114	116	117	117	118	119	120			Connect	Connect		Connect	ąĮ.	事	H.S.					Terminal	No.	121	122	123	124	126	131	132	133	134	135	136	137	138	141	142	144	145	146	147	149	150	151	152
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INTERIOR ROOM LAMP CONTROL SYSTEM										M22	PCB HARNESS		TH40FB-NH				36 66 67 95 95	201191181118111				96																										
SIOR RC	-	. >	>	-		L	>	1		Connector No. M		\neg	Connector Type TP			Ĺ	<u>(2)</u>	≃1			Color Of	Wire	_	-	В	В	В	В	В	В	>	>	>	a .	g	9	æ	9	g	9	g	٦	Ь	8	HB.	~	>	>
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INTERIOR ROOM LAMP CONTROL SYSTEM	ĒM				
Connector No. M50	Connector No. M105	Connector No. M106	Connector No.	M117	
Connector Name PUSH-BUTTON IGNITION SWITCH	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name	WIRE TO WIRE	
Connector Type TK08FBR	Connector Type TH40FW-NH	Connector Type NS08MW-CS	Connector Type	TH80FW-CS16-TM4	
H.S. 4 5 6 7 8	H.S. Exemple Service of the service	H.S. 12 12 14 5 6 7 8	H.S.		
la l	- E	la l	la	f Signal Name (Specification)	
0	No. Wire		No. Wire	[
0 4	2 8	0 00	- >		
	91 5	4 BG	9		
4 BR -	- 9		7 W		
5 GR .	7 1 .	6 R	8		
- , , , , , , , , , , , , , , , , , , ,	- d 8	7 B -	Н		
		. 1 8			
8 W	+		13 W		
	11 W ·	ı	14 L		
١	\dashv	Connector No. M114	15 R	- [Without ADAS]	
Connector No. M104	\dashv	Connector Name FOOT LAMP (PASSENGER SIDE)	+	- [With ADAS]	
Connector Name REMOTE KEYLESS ENTRY RECEIVER			17 GR		
Т	+	Connector Type C02FW	+		
Connector Type TH04FW-NH	+	1	+		
Œ.	22 BG .		20 GR		
子打	+	0	+		
K	+	<u></u>	+		
	30 X	[2]1	7 52 ×		
1 2 3 4	32 L		24 BG		
	a. ee		╀		
	34 1.6	Terminal Color Of	H		
Terminal Color Of Signal Manage (Specification)	35 W	No. Wire Signal Name [Specification]	28 V		
No. Wire Signal Marite [Specification]	. 91 98	1 R	29 P		
1 B GND	37 L	2 BR -	30 B		
2 BR SIGNAL OUTPUT			31 G		
			32 Y		
4 R BATTERY			40 SHIELD		
			41 R		
			+		
			+		
			4p Bla	- [With neated seat]	
			46 L	- [With climate controlled seat]	
			+	- [With heated cost	
			44 44	fixac nagarini inant.	

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INTERIOR ROOM LAMP CONTROL SYSTEM

[SHORT WHEEL BASE MODELS]

INTE	RIOR	NTERIOR ROOM LAMP CONTROL SYSTEM	Ψ							
49	98		Connector No.	tor No.	M120	Connector No.	M121	99	91	DR DOOR, FL LID UNLK OUTPUT
20	9		1	Constant Money	IS ILIGORA LOGENOUS PACE	on old so to on o	Call GOOM COUTDO VGOOD MOO	29	8	GND
51	88		Tallino.	allipa ion	BOW (BOD) CONTROL MODOLE)	colliector ivallie	BCM (BOD) COM NOT INCOORE)	89	0	PW PWR SPLY (IGN)
25	*		Connect	Connector Type	TH40FB-NH	Connector Type	FEA09FB-FHA6-SA	69	٨	PW PWR SPLY (BAT)
23	W		ا			[70	W	BAT (F/L)
99	8		B			B				
57	9		¥			, E	11/1/20 11/1/20 11/1/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 11/20 1			
28	В		Ž	5	1 2 3 4 5 8 9 9 11 12 12 13 13 19 20	ĈĮ.	H 1+ 0+ 0+ ++	Connector No.	or No.	M123
65	W				2127 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25		51 53 55	Connect	Connector Mama	PCM (BODY CONTROL MOBILIE)
61	91						$ label{eq:local_problem} begin{small} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $		2	
62	>							Connector Type	or Type	TH40FW-NH
63	œ									
64	SB		Terminal	al Color Of	3	Terminal Color Of		Œ		
99	9		No.	Wire	olgnai Name [opecification]	No. Wire	Signal Name [Specification]			
99	_			g	RR WINDOW DEFG RLY CONT	41 W	TR KEY CYLINDER SW	2		[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]
67	>		2	98	COMBI SW INPUT S	42 R	TRUNK LID OPEN/CLOSE STATUS			00 00 00 00 00 00 00 00 00 00 00 00 00
89	SB		m	SB	COMBI SW INPUT 4	44 V	TR LID OP CANCEL SW			2
69	9		4	_	COMBI SW INPUT 3	45 GR	PASSENGER DOOR SW			
71	-		'n	o	COMBI SW INPUT 2	46 BR	REAR RH DOOR SW			
72	٦		9	d	COMBI SW INPUT 1	47 LG	DRIVER DOOR SW	Terminal	Color Of	Ĺ
73	۵		00	>	POWER WINDOW SW COMM	48 P	REAR LH DOOR SW	No.	Wire	olgnal Name [opecification]
74	а		6	d	STOP LAMP SW 1	49 SB	TR ROOM LAMP CONT	7.1	BR	KYLS ENT RECEIVER COMM
75	_		11	œ	RAIN SENSOR SERIAL LINK	╀	TR LID OPEN REQ SW	72	В	OUTS HD LAMP OUTPUT
76	SHIELD		14	×	OPTICAL SENSOR	23 16	TRUNK LID OPEN REQUEST	73	>	ON IND
77	g		16	SB	DIMMER SIGNAL	55 BR	RR DOOR UNLK OUTPUT	75	9	DR DOOR REQ SW
78	æ		17	>-	SENSOR PWR SPLY			76	æ	PUSHSW
79	-		18	8	RECEIVER / SENSOR GND			78	BR	DRIVER DOOR ANT+
80	9		19	۸	TURN SIG RH OUTPUT (FRONT)	Connector No.	M122	79	SB	DRIVER DOOR ANT-
81	BG		20	9	TURN SIG LH OUTPUT (FRONT)	Control Mamo	BOM (BOBY CONTROL MODILLE)	80	91	PASSENGER DOOR ANT+
82	BR		2.1	d	NATS ANT AMP.	on leading	DOM (BOOL COM MOD MED)	81	^	PASSENGER DOOR ANT-
83	GR		22	GR	KYLS ENT RECEIVER RSSI	Connector Type	FEA09FW-FHA6-SA	82	^	REAR BMPR ANT+
84	^		23	9	SECURITY IND CONT	4		83	SB	REAR BMPR ANT-
82	9		24	_	DONGLE LINK	B		84	æ	ROOM ANT1+
98	>		52	9	NATS ANT AMP.	Ę	E E E E E E E O E O E O E O E O E O E O	82	>	ROOM ANT1-
87	æ		56	9	I-KEY I DENTIFICATION	ė	20 10 00 00	86	ж	ROOM ANT2+
88	٨		29	9	HAZARD SW		65 66 67 68 69 70	87	9	ROOM ANT2-
88	BR		30	0	TR LID OPNR SW			88	>	TRUNK ROOM ANT+
90	1		31	W	DR DOOR UNLK SENSOR			89	SB	TRUNK ROOM ANT-
16	٨		32	BR	COMBI SW OUTPUT 5			06	ď	PUSH-BTN IGN SW ILL PWR
93	ø	- [With heated seat]	33	œ	COMBI SW OUTPUT 4	Terminal Color Of	[action(Blood)] own(I)	16	GR	TOCK IND
93	Α	- [With climate controlled seat]	34	>	COMBI SW OUTPUT 3	No. Wire	ognal Name [opecification]	92	8	PUSH-BTN IGN SW ILL GND
94	>		32	>	COMBI SW OUTPUT 2	S6 R	INT ROOM LAMP PWR SPLY	93	>	I-KEY WARN BUZZER
96	×		36	91	COMBI SW OUTPUT 1	57 R	BAT (FUSE)	96	88	ACC RELAY CONT
97	>		37	œ	P POSITION	7 89	AIR BAG SIGNAL	16	SB	STARTER RELAY CONT
86	æ		39	_	CAN-H	59 65	PASS DOOR UNLK OUTPUT	86	8	IGN RELAY (IPDM E/R) CONT
66	g		40	d	CAN-L	9 09	TURN SIG LH OUTPUT (SIDE, REAR)	66	~	IGN RELAY (F/B) CONT
100	>-					61 V	TURN SIG RH OUTPUT (SIDE, REAR)	100	SB	PASS DOOR REQ SW
						62 V	STEP LAMP CONT	102	BR	P/N POSITION
						1 69	ROOM LAMP TIMER CONT	104	GR	A/T SHIFT SELECT PWR SPLY
						Λ 59	ALL DOOR ELLIDLOCK OLITRIT	100	α	STOP LAMP SW 2

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NTERIOR	INTERIOR ROOM LAMP CONTROL SYSTEM	and the second		Connection	
4	BLWR RELAY CONT	Connector No. M182	Connector No. M221	Connector No.	R1
> ·	ACCIND	Connector Name DATA LINK CONNECTOR	Connector Name WIRE TO WIRE	Connector Name	WIRE TO WIRE
4	RECEIVER PWR SPLY		Т		
		Connector Type BD16FW	Connector Type M03FW-LC	Connector Type	NS08FW-CS
Connector No.	M181			Œ	
				手	
ector Name	Connector Name WIRE TO WIRE	H.S.	1.5	H.S.	3 0 1
Connector Type	TH40MW-NH	13/15/5/18			8 7 6 5 4
Œ			<u> </u>		
_					
Š	1	Torminal Color Of	Toeminal Color Of	Torminal Color Of	L
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				Signal Name [Specification]
	21 22 23 24 25 26 27 28 28 30 31 32 33 34 35 35 37 38 38 40	t	t	t	
		2 00		+	
		000	3 W	ł	
Tourston Colon Of	30	, .	+	$^{+}$	
TOIO IBIII	Signal Name [Specification]	CAN-II		+	
NO. WIFE		> !	I	+	
+		+	Connector No. M222	+	
+		SB	Connector Name WIRE TO WIRE	88 BR	
+		2	Т		
6 BR		+	Connector Type M03MW-LC		
+		ط	4	Connector No.	R2
+		16 W POWER		Connector Name	WIRE TO WIRE
+			Į.		
10 w				connector Type	TH24MW-NH
+		Connector No. M186	2 3	Q	
+		Connector Name FOOT LAMP (DRIVER SIDE)		李	
14 35		Connection Diese		S.	1 0 1
15 Na V		1	Torminal Color Of		71 11 01 8 8 / 9 2 4 5 7 1
+		4	No Wire Signal Name [Specification]		13 14 15 16 17 18 19 20 21 22 23 24
╀			t		
en		O	2 R		
25 W		1 0	3 ×	Terminal Color Of	
R				No. Wire	signal ivame [specification]
31 BR				2 6	
32 L				S SHIELD	
33 P		Terminal Color Of		9	
╀		No. Wire Signal Name [Specification]		7 6	
*		t			
200		v 00 c		+	
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INTERIOR ROOM LAMP CONTROL SYSTEM

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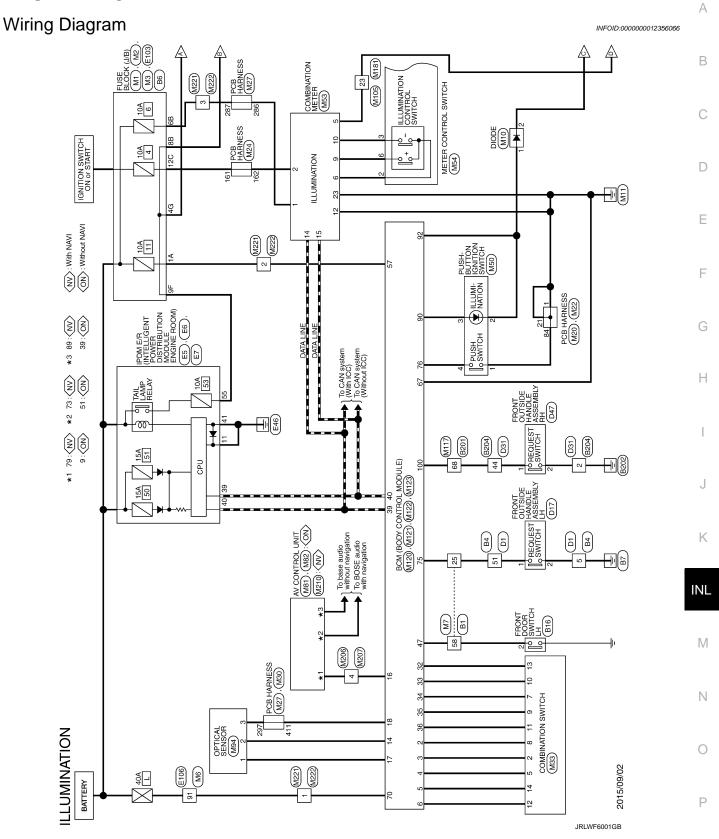
Connector No. R27 Connector Name REAS SPOT LAMP Connector Type ILAGS-55-S3CI H.S.	Terminal Color Of Signal Name Specification 1
Connector No. R14 Connector Name PERSONAL LAMP Connector Type THO4FW-NH H.S.	Terminal Color Of Signal Name Specification
Connector No. 812 Connector Name VANITY MIRROR LANP (DRIVER SIDE) CONNECTOR TYPE MICANZEW 1.2	Terminal Color Of Signal Name Specification No. Wire Signal Name Specification S.
<u>*</u>	Terminal Color Of National National National National National Color Of Signal Nation (Specification) National

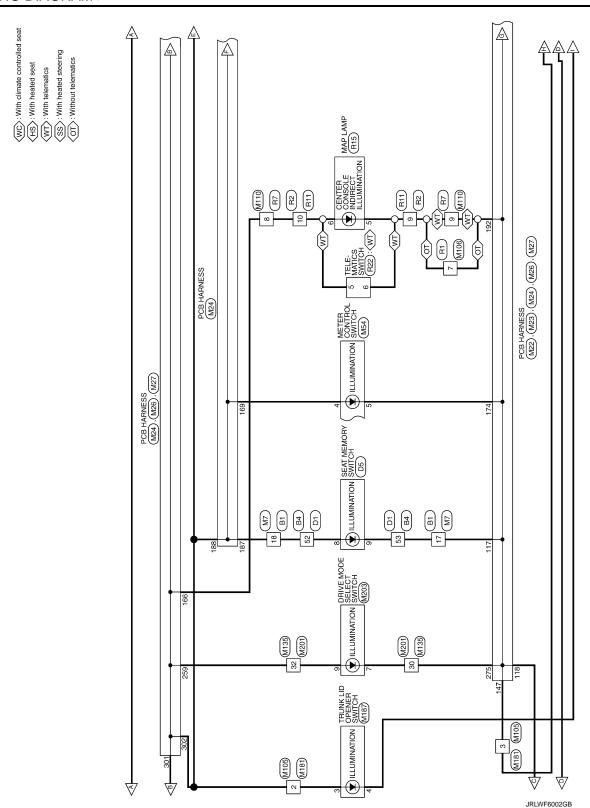
Revision: April 2016 INL-37 2016 Q70

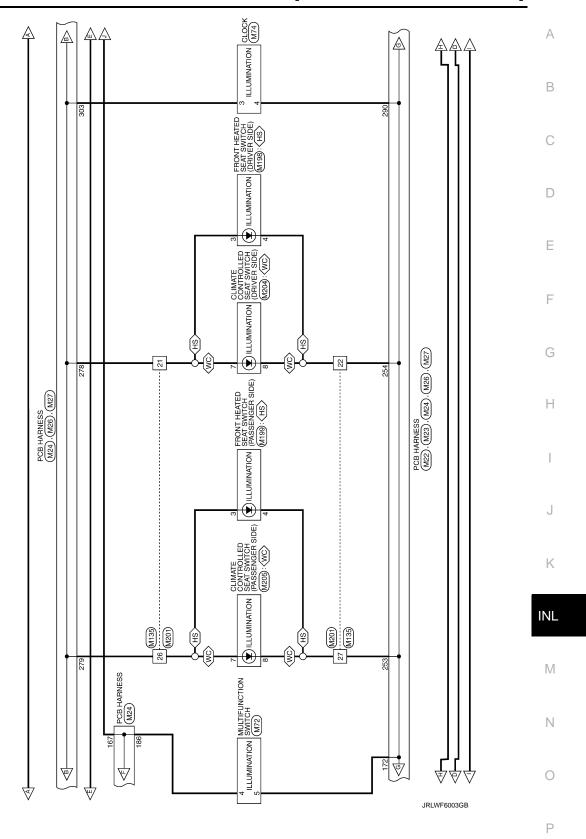
INTERIOR ROOM LAMP CONTROL SYSTEM	T14	TRUNK CLOSURE ASSEMBLY	NS06FW-CS	2 654 1	(1-10-10) - 1-10-10	ognarivanie jopecincauorij						
IOR F	No.	Name	Type		Color Of	Wire	9	7	1	۵	٨	~
INTER	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal	No.		2	3	4	2	9

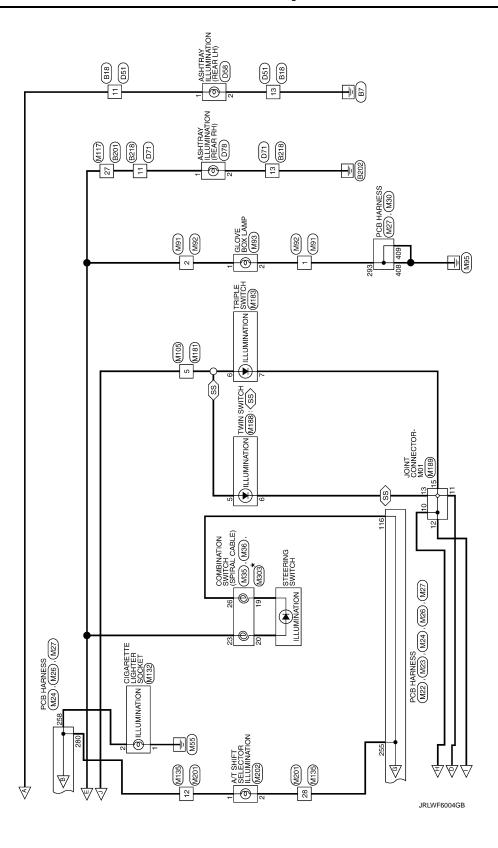
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ILLUMINATION









: This connector is not shown in "Harness Layo

		L					L	Ĺ	
Connector No.	81	41	GR/V		Connector No.	84	36	-	
nector Name	Connector Name WIRE TO WIRE	45	W/L		Connector Name	WIRE TO WIRE	37	# :	
Connector Tono	THOODIN COST TANK	8 43	_ 6		Connector Time	TLACKAN CCAE	88 6	≥ <	
adki interior	IM80FW-C310-11VI4	# !	١		٦	I H4UMW-CS15	99	٠	
		4/	9		•		40	_	
李		48	>	至 .			41	>	
Ě		49	BR		Ę	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	42	8	
	C 9 20 20 20 20 20 20 20 20 20 20 20 20 20	20	S.		3	เลยสาสาสาสาสาส	43	~	
	* 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51	>			7778231772231242	44	g	
	9 91 00 00 00 00 00 00 00 00 00 00 00 00 00	52	PP				45	>	
		53	9				46	۸	
		99	Ь				47	88	•
Terminal Color Of		22	BR	- Terminal	minal Color Of		48	GR	
No. Wire	signal Name [specification]	28	93	. No.	lo. Wire	Signal Name [Specification]	49	9	
1 R		59	>		1 w		20	æ	
2 W		09	>		H		51	g	
4		61	8		H		25	~	
┝		62	91		╀		53	8	
F		63	>		8/W		54	>	
>		65	٥		t		55	SHIELD	
ł		99	R		R .				
H		29	>		F				
H	- [With climate controlled seat]	89	91		╀		Connector No.	ır No.	98
╁	- [With heated seat]	69	8		╀				
ŀ	- [With heated seat]	70	œ		╀		Connecto	Connector Name	FUSE BLOCK (J/B)
┞	- [With climate controlled seat]	72	L		┞		Connector Type	ı	NS12FBR-CS
H		73	۵		F				
┡		74	-		┝		E		
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> 9		9/	>		9 91		Ë	_	5046
17 B		77	œ	- 1	١١ ٨				58 119 119
H		78	۸		H				╢
W 19		79	ŋ		19 GR		_		
7 T		81	97	- 50	0 03				
21 B		82	BR	. 21	51 16		Terminal	Color Of	[acjaco]jicoco] occuly [cool)
		83	SB		L		No.	Wire	olgnar ivame [opecification]
H		84	٠	- 53	33 SB		106	M	
7		82	×	- 24	┞		116	M	
25 G		98	œ	- 25	1/M Fig.		126	GR	
9 GR		87	υ	- 56	┝		16	æ	
H		88	g		╁		56	G/R	
╀		91	SB		w 88		46	-	
29 W/L		92	U		╀		25	1/4	
ľ		96	>		╀		99	. 0	
t		97	0		11 16				
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Connector No.										I	
	I	816	Connector No.	٦	8201	49	٥		Connector No.	П	8204
Connector Name	. Name	FRONT DOOR SWITCH LH	Connector Name		WIRE TO WIRE	2 20	w 85		Connector Name		WIRE TO WIRE
Connector Type	Tvne	AU3EW	Connector Type	Τ	TH80MW-CS16-TM4	1 0	5 9		Connector Type	Т	TH40MW-CS15
				1		1	3			1	
Œ		K	Œ			26 53	۵.		Œ	C	
F		<u>k</u>	ŧ		1 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	57	3		ŧ,		4 2 2 4 5 6 7 8 0 10 11 12 13 14 15
H.S.			1.5		2 7 100 000 000 000 000 000 000 000 000 0	28	0		H.S.		81 71 11 61 61 61 61 61
		٥			90 20 20 20 20 20 20 20 20 20 20 20 20 20	29	>				16.17.18.19.20,27.12.22,24.29.26 38.37.38.38.40,41.42,43,44,44,48
		<u>ग</u>			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9	SB				27/28/29/30/31/32/33/34/38
						62	-			J	
]				63	*				
Terminal	Color Of		Terminal	Color Of	3	99	SB		Terminal	Color Of	3 3 3
No.	Wire	ognal Name [opecification]	No.	Wire	signal Name [specification]	9	91		No.	Wire	signal Name [specification]
2	97		,,	Υ		99	1		2	B/W	•
			3	œ		-67	>		3	B/W	
			9	æ		89	SB		25	٨	•
Connector No.		818	7	Α	,	69	8		6	œ	
Common Manage	Mamo	TOWN OF TOWN	80	۸		71	_		10	Ь	
		aure 10 wire	11	В		7.2	٦		11	۸	
Connector Type	Type	NH10FW-CS10	12	9		73	В		12	٨	
			13	Å		74	8		13	BR	
B			14	7	,	75	7		14	91	
ŧ		6 5 4 3 2 1	15	В	- [Without ADAS]	9/	SHIELD		15	GR	
2]	15	>	- [With ADAS]	77	9		16	9	
		13 12 11 10 0	17	æ		78	æ		17	0	
		20 19 19 19 19 8 7	18	Ь		79	۵		18	BR	
		18 17 16 15 14	19	BR		80	9		19	GR	
			20	GR		81	0		20	۸	
Terminal	Color Of	[coltanificaci) ownell leaving	21	λ		82	BR		21	91	
No.	Wire	oignal value [operitication]	22	GR		83	GR		22	W	
1	91		23	ď		84	>		23	0	
2	а		24	>		82	91		24	>	
3	ч		25	8		98	۸		25	BR	
4	9		56	>	,	87	0		56	_	
7	8		27	0		88	λ		27	W	
8	Μ		28	۸		88	BR		28	8	
6	۸		29	Ь		90	_		59	ч	
10	^		30	0		91	BR		30	SHIELD	
11	1		31	B/R		93	0	- [With heated seat]	31	9	
12	٨		32	٨		93	٨	- [With climate controlled seat]	32	9	
13	В		40	SHIELD		94	GR		33	В	
			41	W/R		96	≥		35	۵	
			42	>		97	۵		36	B/R	
			45	SB		86	16		37	BR	
			46	œ	- [With climate controlled seat]	66	97		38	SB	
			46	>	- [With heated seat]	100	χ.		39	a	
			47	9	- [With climate controlled seat]				44	SB	
			47	GR	- [With heated seat]				46	В	
			48	>					53	_	

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	Connector No. D31	Connector Name MIDE TO MIDE		Connector Type TH40FW-CS15			15 14 13 12 11 10 9 8 7 8 5 4 3 2 2 1	2	48 444 44 43 4341 40 33 38 37 38 28 28 28 28 28 28 28 28 28 28 28 28 28					Terminal	No. Wire	2 B -	3 B/W		> 6	10 R	╀	γ λ	13 BR	╀	╀	+	12	+	+	+	+	+	+	23 G	24 Y	╀	27 w	H	H	30 SHIELD -	Н	H	33	35 W	╀	37 P	38 SB	╀	ŀ	F	1 23
	Connector No. D5	Connector Name SEAT MEMORY SWITCH		Connector Type TH16FW-NH	Ĺ			2	0	2 5 6 7 9 1 4	9 9 1			ē	e	1 R	2 v	3 W	4 8	. 91	╀	╀	· 8	W/8 6	ł		Connector No D17	Т	Connector Name FROMT OUTSIDE HANDLE ASSEMBLY LH	Ť	Connector lype SAZUSEW	4		(112)	3 4	<u>T</u>	9)	Terminal Color Of Classification	No. Wire Signal Name [Specification]		2 B	88	8/W	┨						
			GR .	. 9	- 91		. 91	B/W						BR				. 9	. 91		,		^	*	- GR		,	,					^	GR .	0 3		Α				. 91	BR					. 9		B/W	, M	SHIELD
	9	7	80	6	10	11	12	H	H	15	16	OT C	7	18	19	20		22	23	24	25	56	27	28	╁	+	31	33	35	23	34	32	+	+	30 28	40	41	42	43	44	45	46	47	48	49	╀	H	52	t	╀	S5 SF
NOI					8218	Total Of Total	WIRE IO WIRE	NH10FW-CS10			2 2 1) †	į	13 12 11 10 9	20 19 20 1	18 17 16 13 14			oignai Name [opecification]								4							D1	WIRE TO WIRE	TH40FW-CS15			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	1	464-484-4444-441-4413-38-313-8	5				Signal Name [Specification]					
ILLUMINATION	Ц	>			Connector No.			Connector Type	L	•		Ø	3					Terminal Color Of	Wire	91	GR	H	H	╀	ŀ	╀	╀	$^{+}$	+	+	9		ſ	Connector No.	Connector Name	Connector Type	1	•	,	2					Ferminal Color Of	Wire	H	╀	H	╀	
ILLL	24	55			Connec		Sellino.	Connec		€	李	S : Y						Termin	No.	-	2	m	4	_	000	0	, 5	7	1 :	71 5	2			Connec	Connec	Connec		Œ		2					Termin	No.	-	7	8	4	'n

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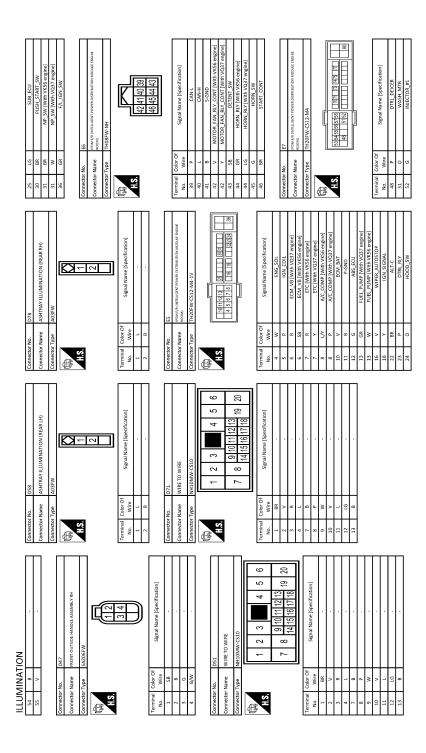
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Connector No M1	Γ	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2	1		3,4		80 80 50 00	Щ			Color Of					M T	╀	· ·	×			Connector No. M2	Connector Name FUSE BLOCK (1/B)	T	Connector lype NS10FW-CS			48	9R 8R 7B 6B 5B	60 60 60			0	Wire	+	. હ		╀	: >	- >	→ 0	+			
Conne	I	Connec	Connec][. [9	Γ		Γ		Terminal	Š	14	ZA	3.4	44	S.A.S	PAG	48 8		Γ	Connec	Connec	[], 	Conne	€						 	Terminal	No.	9 8	48	3	89	3		/B	90	98		
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	0	2 5	2 ~		Α.	9	>	æ	-00	>	œ	SB	U	SHIELD	M	^	œ	U	>	m	SHIELD	0	SB	>	SB	YS ,		_	^	BR	97	W	Α	ا ۵	5 8	<u> </u>		· >	. >	. ,	,					
г						-	┺	┺					-																_	_									_	-	1					
48	9	LJ 05	\$ 25	25	09	61	62	63	94	9	99	29	89	69	70	7.1	72	73	74	75	92	77	78	80	82	80 3	± 58	98	87	88	88	06	91	92	93	6	45	8	g	90,	PRI					
1105		WIRE TO WIRE	TH80FW-CS16-TM4 54						9 00			3 3 3	Signal Name [Specification]	69		. 71	- 72	73	74	75				,			** 58	98	- 8		- 8	- 80	. 91						5		-					
5105		WIRE TO WIRE	TH80FW-CS16-TM4						9 00			Color Of	Wire Signal Name [Specification]	69 - d 1	. w	. 88	. 91		*	GR	. 9	,				GR	¥5 >	· ·	GR	^		d			SHIELD	25 W				>>>		+	+	\dashv	Н	
									9 00			3 3 3	Wire Signal Name [Specification]						*	GR		77 ·				GR		· ·	GR	^						25 W				>>>		30 00	+	\dashv	Н	46 GR
EB WIDER HI		WIRE TO WIRE	Connector Type TH80FW-CS16-TM4					7 マ マ で で で で で で で で で で で で で で で で で				Terminal Color Of	No. Wire Signal Name [Specification]		2 w	3 88	. 6	0 5	, w 9	GR	0 8			11 SB		13 GR	¥5 >	· ·	GR	^		d			SHIELD	25 W				>>>		+	+	\dashv	Н	L
Connector No 15106		TAIL/IIIMI Connector Name WIRE TO WIRE	02_SENS_#1 Connector Type TH80FW-CS16-TM4	02_SENS_#2	AT ECU		MOTRLY 1.2	START IG-E/R	START IG-EGI	OIL PRESSURE SW	l bk	STARTER_MOTOR Terminal Color Of Color O	No. Wire Signal Name [Specification]			3 SB .	. 91		,	GR	. 9 8		1/2F 1/0F 9F 8F	11 SB		13 GR	Signal Name [Specification] 14 Gn .	, Y 16 Y	17 GR	. v 18	. 20 BR .	21 P		23 P	SHIELD	20 4/10	31 87			>>>		+	+	\dashv	Н	L

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		L - [Without CAN gateway]	Y - [With CAN gateway]				. 91	. ·	^			SS .			SHIELD .				. 88	38				. 9	. BB	^		. d	BG .			. 91		GK		2 8		. ~	^	. 91	. 88	^		. d			. 9	
	17 8		18	19 V	20	L	┞	23 V	┞	H	╀	╁	H	L	30 SHI	32	Н	\dashv	+	+	7+7	+	╀	╀	┞	H	51 \	Н	Н	-	+	+	+	+	61 63	+	╁	╀	H	┞	┞	H	72 1	\dashv	74	+	76 (ŀ
																				_			I]		8	21:	212	8				I															
	•			•	·		ı					•	1	٠	•						/IAI	WIRE TO WIRE	TH80MW-CS16-TM4									Signal Name [Specification]							,		- [With heated seat]	- [With climate controlled seat]	- [With heated seat]	- [With climate controlled seat]				
	8	BG	SB	٨	-	>	>	97	BG	×	BG	U	>	×	SB	œ	Μ	٦			OI INC.	Connector Name	or Type				_					٥	Wire	,	> 8	5 0	. 0	>-	9	>	_	>	GR	Ь	BR	æ	BG	
	82	83	84	82	98	87	88	88	96	91	95	63	94	95	6	98	66	100			nallion	Connect	Connector Type		Œ		Ê					Terminal	o .	-	~ *	ľ	^	∞	6	10	11	11	12	12	13	14	15	
				GR .	^					SHIELD -	>	SB			В .	. BG		. 9	BR	BR	- 2	200					. 9	GR .		. 91	BR -		SB - [Without ICC]		Y - [Without ICC]			SHIELD			· ac	. 9	Α.		SHIELD .		,	
	14	15	16	17	18	20	21	22	23	T	t	29	31	32	33	34	36	37	41	44	6,	40	48	49	20	54	55	09	61	62	63	64	2 t	co	92	3 6	8	۲	t	7.1	72	73	74	H	2.6	77	78	ĺ
إ≥	. M3	me ELISE BLOCK (1/B)		se NS12FW-CS]	130 110 110 00 BO 70 BO				Color Of	Wire Signal Name [Specification]	. 91	. 91	. 0	~					Me	Т	me WIRE TO WIRE	Pe TH80MW-CS16-TM4				150 SS	4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				Color Of Signal Name (Specification)			88	. 91	, .	M	98						
≨I	Connector No.	Connector Name	IPA IO	Connector Type	١,	_		2					Terminal Colc	>	10C	Ц	Н	9	4	+	4		Connector No.	1	connector Name	Connector Type	L			_					Ferminal Colc	-	ľ	ľ	Ľ	Ĺ	Ĺ		Ц	Ц	10 \	4	Н	

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		change the control of			Ype TH40FW-NH				मा हा छ। एवं एक			Color Of	Wire Signal Name [Specification]	2		. 98	. BG		SB	. 91			d		Α			. · · · ·		В .	. 91	В .			٠			, .		M						
120		Connector No	COLLINECTO	Connector Name	Connector Type	€	ŧ	Ź				Torminal	Ŋ.	121	122	123	124	126	131	132	133	134	135	136	137	138	141	142	144	145	146	147	149	150	151	152	153	154	155	157	158	159	160	204		
M22	DCB HABNESS	TUANTE MU	I HAUF B-INH			119 59 59 97 96 56 54 52 52 91 90 88 88 67 86 65 54 53 62 81	हिन है है कि एक तम है है जिस है			Signal Name [Specification]										•	,		•												-								[anjan NESS anning]	- (With VO37 engine)		
	١,	.	1							Terminal Color Of	-			65		8	В	8	٨	۸	>	8	В	97	BR	9	9	9	g	٦	Ь	8	BR	œ	٨	γ	BR	>		۵	_	-		BG	~	97
Connector No.	Connector Name	Connector Tuno	Colline	Œ	¥ S					Terminal	į	G	83 83	84	\$	98	87	88	88	91	92	93	94	95	96	97	86	66	100	101	102	103	104	105	107	108	109	110	112	113	114	116	11.	117	118	119
M20	PCB HABNESS	COLUMN GLOVEL	I 140FB-INH			20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	38			Signal Name [Specification]										•	,				- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]		-					-											
or No.	Connector Name	Connector Tune	adá io							I Color Of	2	a	>	9	~	>	BR	æ	В	SHIELD	æ	Ь	W	В	В	>	٦	SB	_	۵	^	>	_	Ь	٦	٨										
Connector No.	Connect	Tours.	COULECT	1	SH.					Terminal	į -	,	4 m	4	ın	9	11	12	15	16	17	18	19	21	22	22	23	23	24	27	31	33	32	36	38	40										
											Ī									1		Ţ		1			Sinnal Mamo (Specification)	(absolucenous)																		

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Connector No. Local Connector No. Loca	W 050	1	Connector No. M30	Connector Name PCE HARNESS Connector Type TH405 W.NH	पार्के स्वाकृतिक स्व मिल्लाल स्वाकृतिक स्		Terminal Color Of	No. Wire Signal Name [Specification]	402 R	403 R	4	+	4	4	4	411 8	+	4	41b LG	41/ B	S	+	427 P	428 V .	Ц	4	431 B	435 V	436 BG .	╀	438 р	439 L	440 B -				
THOLON CONTRECTOR No. MAGE CONTRECTOR AA37	PCB HARNESS	TH40FB-NH												,																						_	
MICHON PURPLES	Connector No	Connector Name	Connector Type	H.S.	Terminal Color O	No. Wire	+	╀	Н	Н	4	+	+	+	+	4	4	4	4	+	╀	7 T	Ц	Н	Ц	-	+	+	╀	╀	╀	L	L	314 Y	Ц	Н	24.2
PURJA Connection PURJA Connection PURJA Connection PURJA PURJA	2014	-						- [With ICC]	- [Without ICC]	- [With ICC]	- [Without ICC]					,			- [With heated seat]	- [With climate controlled seat]				•		,					,						_
PCE MARNUSS PCE MARNUSS PTH-405-W-WH Edited by W-WH Edited by W-W-W-W-W-W-W Edited by W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-W-	on action	nector Name	nector Type	Ä.S.			241 L	1	L	244 L	+	4	4	+	+	+	4	+	+	+	L	7 657	H	Н	Н	+	+	+	╀	╀	L	L	275 Y	Н	Н		
CONTINA CONT		ARNESS				Signal Name [Specification]														_	<u> </u>					1	1				,						-
	UMINAT			Ŋ	inal Color Of	. Wire	+	╀	L	Ц	4	+	+	+	4	J .	4	× .	4	+	$^{+}$	L	Ц	Ц	86 R	7 2			╀	╀	L	L	Ц	Ц	88 R	Ц	

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ILLUN	MINA	ILLUMINATION									
Connector No.	r No.	M33	Connector No.	tor No.	M36	Connector No.	П	M53	Connector No.	r No.	MS4
Connector Name	r Name	COMBINATION SWITCH	Connect	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connecto	Connector Name	COMBINATION METER	Connector Name	r Name	METER CONTROL SWITCH
Connector Type	r Type	TH16FW-NH	Connect	Connector Type	TK08FGY-1V	Connector Type	П	TH40FW-NH	Connector Type	r Type	TH12MW-NH
是 ES.		1 2	H.S.	, id	24 25 26 31 32 33 34	H.S.			是 H.S.		1 2 3 4 5 6 9 10 11 12
Ferminal No.	8 -	Signal Na	Terminal No.	al Color Of Wire	signal Name [Specification]	Terminal No.	8 -	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1 2	S 8	FR WASHER (-) OUTPUT 4	25	a 88		1 2	M BG	BATTERY POWER SUPPLY IGNITION SIGNAL	1 2	S a	
5	-	OUTPUT 3	56	8		3	GR	VEHICLE SPEED SIGNAL (2-PULSE)	3	GR	
9	8	GND	31	_		4	œ	VEHICLE SPEED SIGNAL (8-PULSE)	4	œ	
۸ «	> %	OUTPITS	33	- α		5 9	a0 a	METER CONTROL SWITCH GROUND	5 9	ی ≼	
9	>	INPUTZ	35	9		^	. 89	ENTER SWITCH SIGNAL	5	8	
10	œ	INPUT4				00	97	SELECT SWITCH SIGNAL	10	GR	
11	97	INPUT 1				6	ŋ	ILLUMINATION CONTROL SWITCH SIGNAL (+)	11	91	
12	۵	OUTPUT 1	Connector No.	tor No.	M50	10	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)	12	7	
13	BR	INPUTS	Connect	Connector Name	HITSH-BITTON IGNITION SWITCH	11	٦	TRIP RESET SWITCH SIGNAL			
14	g	OUTPUT 2				12	в	GROUND			
			Connect	Connector Type	TKOSFBR	14	٦ ،	CAN-H	Connector No.	No.	M72
Connector No.	۲ No.	M35	€			16	. «	AIR BAG SIGNAL	Connector Name	r Name	MULTIFUNCTION SWITCH
1	ometa Name	12 IOAN INGIGA) LICATION CALLANDA INGIGA	į			17	ø	LED HEADLAMP (RH) WARNING SIGNAL	Connector Type	r Type	TH16FW-NH
2	2		4		0 7 1	18	>	LED HEADLAMP (LH) WARNING SIGNAL	Q		
Connector Type	r Type	TK06FY-EX-1V			4 5 6 7 8	23	В	GROUND	臣		
1	_					25	8 ×	FUEL LEVEL SENSOR GROUND ALTERNATOR SIGNAL	H.S.		
Ę						56	>	PARKING BRAKE SWITCH SIGNAL			4 0 8 14 10
î		23	Terminal	al Color Of	Constitution (Constitution)	27	>	BRAKE FLUID LEVEL SWITCH SIGNAL			1 3 5 9 15
		т.	No.	Wire	olgilar ivanie (operintation)	28	9	SECURITY SIGNAL			
		28 29 30	П	80		59	_	WASHER LEVEL SWITCH SIGNAL			
			2	æ		32	g	PADDLE SHIFTER SHIFT DOWN SIGNAL	Terminal	Color Of	3
			m	œ		33	BG	PADDLE SHIFTER SHIFT UP SIGNAL	No.	Wire	signal Name [specification]
Ferminal	Color Of	ff	4	BR		34	9	FUEL LEVEL SENSOR SIGNAL	-	8	GND
No.	Wire		2	GR		35	Λ	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	3	^	ACC
23	æ		9	٨		36	9	PASSENGER SEAT BELT WARNING SIGNAL	4	ч	III
28	٨		7	۸		37	9	NON-MANUAL MODE SIGNAL	2	8	ITL CONT
59	٨		00	M		38	^	MANUAL MODE SHIFT DOWN SIGNAL	9	8S	AV COMM (H)
30	٨					39	٦	MANUAL MODE SHIFT UP SIGNAL	00	91	AV COMM (L)
						40	Μ	MANUAL MODE SIGNAL	6	BR	SW GND
									14	SB.	DISK EJECT SIGNAL

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	Connector No. M94 Connector Name OPTICAL SENSOR	Connector Type TK03FW	H8.	Terminal Color Of Signal Name Specification No. Wire Signal Name Specification	Connector No. M105 Connector Name WIRE TO WIRE Connector Type TH40FW-NH		Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification) 2 R R 3 B	6 P · · · · · · · · · · · · · · · · · ·	10 W -	Н	Н	22 8G .
	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 B 1 B 1 Color Of Signal Name [Specification]	2 R	Connector No. M92 Connector Name WIRE TO WIRE Connector Type TXC2ANBR-P	H.S.	Terminal Color Of Signal Name Specification No. Wire	Connector No. NV33 Connector Name GLOVE BOX LAMP Connector Type A03FW		Terminal Color Of Signal Name [Specification] No. Wire				
	Connector No. M82 Connector Name AV CONTROL UNIT	Connector Type TH24FW-NH	(1.5) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6) (1.6)	al Color Of Signature BG BG GG	39 Y COMM/DIS-SCORT) 40 R RCBAREA (YS) SIGNAL 41 SHIELD SHIELD 42 W RGB (RRED SIGNAL 43 R RGB (RRED SIGNAL 44 B RGB (GGRED SIGNAL	W W 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	52 SHED SHED 57 SHED SHELD 58 SHED SHELD 58 SHED SHELD CONNECTOR SHELD	Connector Name WIRE TO WIRE Connector Type TK02FBR	H.S.	211		
۱≥	ne CLOCK	pe TH04FW-NH	1234	of Sign	B	PRO THISPW.CS2 19	Color Of Signal Name (Specification) Wire South Dischart RROWT H (+) L SOUND SIGNAL RROWT H (-)	SOUND SIGNAL REAR LH (+) C SOUND SIGNAL REAR LH (-) SOUND SIGNAL REAR LH (-) STRES SW A V ACC POWRS SUPPLY V ACC POWRS	SB ILLUMINATION BR SOUND SIGNAL FRONT RH (+) R SOUND SIGNAL FRONT RH (-)	P SOUND SIGNAL REAR RH (+) V SOUND SIGNAL REAR RH (-)	B STRG SW GND L STRG SW B	Y BATTERY POWER SUPPLY
ILLUMI	Connector No.	Connector Type	₽ HS.	Terminal Co	Connector No.	Connector Type	Terminal Co No. 1	5 5 7	111	13	15	19

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		4	æ		25	BG		86	>	
31 BR		S	_		97	٨		87	~	
32 L		9	80	,	27	œ		88	>	
33 P		7	BR		28	H		88	BR	
L		00	œ		29	۵		06	-	
35 W		0	- 40		30	ŀ		16	>	
╀		10	>		~	ł		6	ی	- [With heated seat]
╀		11	BR		32	H		93	>	- [With climate controlled seat]
		12	U		40	SHIELD		94	>	
		13	Ŀ		41	t		96	*	
Connector No.	M106	20	>		42	┞		97	>	
	10000	2.1	œ		45	88		86	H	
onnector Name	Connector Name WIRE IO WIRE	22	9		46	┝	- [With heated seat]	66	g	
Connector Type	NS08MW-CS	23	Ŀ		46	╀	- [With climate controlled seat]	100	┞	
		24	97		47	g	- [With climate controlled seat]			
E C					47	ŀ	- [With heated seat]			
Į					48	>		Connec	Connector No.	M120
Ê		Connector No.	r No.	M117	49	Н		Connec	Connector Name	BCM (BODY CONTROL MODILIE)
	4 5 6 7 8	Connector Name	r Name	WIRE TO WIRE	20	97			200	con (con control moder)
	71			with 10 with	51	SB		Connec	Connector Type	TH40FB-NH
		Connector Type	r Type	TH80FW-CS16-TM4	25	٨		¢		
		ģ	_		83	>	-	B		
ler.	r Of Stepal Name (Specification)	B		100	26	89		1	,	[
No. Wire	0.0	H E			22	9			9	112 3 4 5 6 8 9 11 14 16 17 18 19 20
1 B		110	_		28	\dashv				2122 23 24 25 26 29 30 31 32 33 34 35 39 37 39 40
\dashv				25 FF (20 C) (20	53	\dashv				
4 BG				9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	61	91				
4				N N N	62	\dashv			- 1	
\dashv					63	\dashv		Terminal	J	f Signal Name (Specification)
7 B		Terminal	O	Signal Name [Specification]	64	SB		No.	Wire	
1 8		No.	Wire	Transport of the second of the	92	91	-	1	Ø	RR WINDOW DEFG RLY CONT
		1	>		99	٦	-	2	BG	COMBI SW INPUT 5
		3	٨		29	٨		3	SB	COMBI SW INPUT 4
Connector No.	M110	9	æ		89	SB		4	1	COMBI SW INPUT 3
ometer blame	Connection Name	7	Μ		69	8		5	9	COMBI SW INPUT 2
Office to I valid	Wine IO wine	80	^		7.1	1		9	۵	COMBI SW INPUT 1
Connector Type	TH24MW-NH	11	a		72	٦		80	>	POWER WINDOW SW COMM
		12	9		73	4		6	۵	STOP LAMP SW 1
E		13	×		74	8		11	~	RAIN SENSOR SERIAL LINK
Ę		14	_		75	1		14	Μ	OPTICAL SENSOR
Ĉ E	1 2 3 4 5 6 7 8 9 10 11 12	15	æ	- [Without ADAS]	9/	SHIELD	-	16	SB.	DIMMER SIGNAL
		15	۶	- [With ADAS]	77	Ø		17	>	SENSOR PWR SPLY
	13 14 15 16 17 18 19 20 21 22 23 24	17	æ		78	œ		18	•	RECEIVER / SENSOR GND
		18	۵		79	_		19	>	TURN SIG RH OUTPUT (FRONT)
		19	BB		8	U		20	U	TURN SIG LH OUTPUT (FRONT)
Terminal Color Of	10f	20	GR		81	BG		21	۵	NATS ANT AMP.
No. Wire		21	>		82	BR		22	GR	KYLS ENT RECEIVER RSSI
1 6		22	91		83	GR		23	9	SECURITY IND CONT
γ γ		23	æ		84	>		24	٦	DONGLELINK
Н		24	BG		82	91		25	ŋ	NATS ANT AMP.

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ILLOIV	LLUMINALION									ſ	
56	9	I-KEY IDENTIFICATION	Connector No.	П	M122	79	SB	DRIVER DOOR ANT-	Connector No.	П	M135
29	v	HAZARD SW	Connector Name		RCM (BODY CONTROL MODILIE)	80	97	PASSENGER DOOR ANT+	Connector Name		WIRETOWIRE
30	0	TR LID OPNR SW			SCIII (DODI COMINCE MODOLE)	81	^	PASSENGER DOOR ANT-			mer io wine
31	Μ	DR DOOR UNLK SENSOR	Connector Type	П	FEA09FW-FHA6-SA	82	۸	REAR BMPR ANT+	Connector Type	П	TH32FW-NH
32	BR	COMBI SW OUTPUT 5	0			83	SB	REAR BMPR ANT-	٥		
33	ч	COMBI SW OUTPUT 4	B			84	BR	ROOM ANT1+	B		
34	^	COMBI SW OUTPUT 3	ŧ		- ES E7 E0 E0 E0 E4 E9 E9	82	٨	ROOM ANT1-	ť	•	
35	٨	COMBI SW OUTPUT 2	2		20 20 10 00 00 00 00	98	В	ROOM ANT2+	2		18 15 14 13 13 14 10 0 18 17 18 15 14 13 13 14
36	91	COMBI SW OUTPUT 1			65 66 67 68 69 70	87	9	ROOM ANT2-			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37	æ	P POSITION				88	۸	TRUNK ROOM ANT+			27 20 20 24 23 22 21 20 19
39	_	CAN-H				88	SB	TRUNK ROOM ANT-			
40	Ь	CAN-L				90	æ	PUSH-BTN IGN SW ILL PWR			
			Terminal	Color Of	Control of the second	16	GR	LOCKIND	Terminal Color Of	Color Of	(- 1911 S) - 1914 T - 1915
			No.	Wire	ognal Name [specification]	95		PUSH-BTN IGN SW ILL GND	No.	Wire	ognativante [opecification]
Connector No.	. No.	M121	99	œ	INT ROOM LAMP PWR SPLY	93	>	I-KEY WARN BUZZER	т	×	
Name of the second	Momo	CONTROL MODERNO MODERNO	22	œ	BAT (FUSE)	96	SB	ACC RELAY CONT	2	BG	
CONTRACTOR	Mallic	BOW (BOD) CONTROL MODOLE)	28	1	AIR BAG SIGNAL	6	SB	STARTER RELAY CONT	2	1	- [With heated seat]
Connector Type	. Type	FEA09FB-FHA6-SA	29	9	PASS DOOR UNLK OUTPUT	86	8	IGN RELAY (IPDM E/R) CONT	2	>	- [With climate controlled seat]
ľ			09	9	TURN SIG LH OUTPUT (SIDE, REAR)	66	ď	IGN RELAY (F/B) CONT	9	GR	- [With heated seat]
ß			61	>	TURN SIG RH OUTPUT (SIDE, REAR)	100	SB	PASS DOOR REQ SW	9	Ь	- [With climate controlled seat]
Ę		101 01 171 21 31 111 11 111 111	62	^	STEP LAMP CONT	102	BR	P/N POSITION	7	SB	
2		⅃	63	7	ROOM LAMP TIMER CONT	104	S. GR	A/T SHIFT SELECT PWR SPLY	10	9	- [With climate controlled seat]
		51 53 55	65	>	ALL DOOR, FLLID LOCK OUTPUT	105	ď	STOP LAMP SW 2	10	GR	- [With heated seat]
			99	91	DR DOOR, FL LID UNLK OUTPUT	106	8	BLWR RELAY CONT	11	98	- [With heated seat]
			29	8	GND	109	٨	ACC IND	11	٦	- [With climate controlled seat]
			89	0	PW PWR SPLY (IGN)	110	ч	RECEIVER PWR SPLY	12	٨	
Terminal	Color Of	f Startifficaci Samul Lauris	69	Å	PW PWR SPLY (BAT)				13	Μ	
No.	Wire	ognanical operingation	70	W	BAT (F/L)				14	٦	
41	Μ	TR KEY CYLINDER SW				Connector No.	or No.	M132	15	g	
42	В	TRUNK LID OPEN/CLOSE STATUS				Connecto	Connector Name	CIGARETTE LIGHTER SOCKET	16	٨	
44	^	TR LID OP CANCEL SW	Connector No.		M123		Name of		17	Ь	- [With heated seat]
45	GR	PASSENGER DOOR SW	Connector Name		BOM IBODY CONTROL MODILIES	Connector Type	or Type	NS03FW-CS	17	W	- [With climate controlled seat]
46	BR	REAR RH DOOR SW			confederation and the second	[18	BR	
47	91	DRIVER DOOR SW	Connector Type		TH40FW-NH	B			19	GR	
48	۵	REAR LH DOOR SW	9)		<u>[</u>	20	В	
49	SB	TR ROOM LAMP CONT	B			2		1	21	œ	
51	BG	TR LID OPEN REQ SW	Ě		[3 2 1	22	В	- [With heated seat]
53	9	TRUNK LID OPEN REQUEST	5	_	71 72 73 75 75 75 75 75 75 75 75 75 75 75 75 75				22	×	 [With climate controlled seat]
55	BR	RR DOOR UNLK OUTPUT			91 92 93 196 97 98 99 100 112 114 106 108				23	BG	
				_					24	>	
						Termina	Terminal Color Of	Signal Name (Specification)	25		- [With heated seat]
						No.	Wire		25	91	 [With climate controlled seat]
			lal	Color Of	Signal Name [Specification]	1	8		56	æ	- [With heated seat]
			No.	Wire		2	æ		56	SB	 [With climate controlled seat]
			7.1	BR	KYLS ENT RECEIVER COMM	3	٨		27	В	- [With heated seat]
			72	8	OUTS HD LAMP OUTPUT				27	۵	- [With climate controlled seat]
			73	>	ONIND				28	8	
			7.5	9	DR DOOR REQ SW				59	a	
			26	BR	PUSH SW				30	>	
			78	BR	DRIVER DOOR ANT+				32	_	

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Connector No.	ILLUMINATION Connector No. M181	TION M181	Connector No.	M183	Connector No.	\Box		
Connector Name	r Name	WIRE TO WIRE	Connector Name	TRIPLE SWITCH	Connector Name	TWIN SWITCH	20 LG	
Connector Type	r Type	TH40MW-NH	Connector Type	TH12FB-NH	Connector Type	TH12FGY-NH		
E.S.			€ S'H	2 1 2 8 9	ES.	3 0 0	Connector No. M138 Connector Name provi HAXTED SAT SWITCH (DRIVER SIDE) Connector Type TXXLDFW TXLDFW TXLDFW	
Terminal No.	Terminal Color Of No. Wire	f Signal Name [Specification]	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal Color Of	Of Signal Name [Specification]	4 3 2 1	
2	œ		t	,	t			
8	8		2 BR	- [With ICC]	2 SB			
ın «	œ (+	- [Without ICC]	+		Terminal Color Of Signal Name (Specification)	
0 1~	ř -		6 L		0 9		+	
. 00			ł	,	+		2 ^	
g)	8		7 8		10 B		3 R	
10	Μ		M 6				4 B	
11	97		12 L	,				
12	SB				Connector No.	M189		
14	SB				Connector Name	JOINT CONNECTOR-M01		
15	æ	4	Connector No.	M187		П		
16	>		Connector Name	TRUNK LID OPENER SWITCH	Connector Type	NH20FL-DC	Connector No. M199	
18	0 8			110011	4		Connector Name PRONT HEATED SEAT SWITCH (PASSINGER SIDE)	
22	g ,		Connector Type	HOSEB-NH	李		Т	
25	9 %		Œ		S	0 8 7 5 3 2 1	CONTRECTOR Type INVOSTBR	
30	2		李					
31	æ		E S	C		01 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10		
32	7			1			9 0	
33	Ь			2 1			4 3 2 1	
34	91				lei	Of Signal Name (Specification)		
35	≯				No. Wire			
36	91		<u></u>	Signal Name [Specification]	1 B			
37	_		No. Wire		2 B		lei	
			1 BG		_		No. Wire	
			2 B		2		1 1	
			\dashv	,	\dashv		2 6 .	
			4 B		+		\dashv	
					9 6		4 R	
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					11 B			
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					18 LG			

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MARE TO WIRE Connector Name MAT 54HT 5 TH32MW-MH	HH

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Connector No. M210	INA.	ION M210	Connector No.		M221	Conne	Connector No.	M303	Connector No.	Г	R2	
Connector Name	Name	AV CONTROL UNIT	Connector Name		WIRE TO WIRE	Conne	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	П	WIRE TO WIRE	
Connector Type	Type	TH32FW-NH	Connector Type		M03FW-LC	Conne	Connector Type	TK08FGY	Connector Type		TH24MW-NH	
康			H.S.		<u>_</u>	Œ [™]	H.S.		@ SH		1 0 2 4 5 8 6 7 18 0 404442	
		T3 80 81 82 83 84 187 88 89 90 91 92			3 2			20 19 18 17 16 15 14 13			15 16 17 18 19 20	
Terminal Color Of No. Wire	Color Of Wire	Signal Name [Specification]	Terminal Col	Color Of Wire	Signal Name [Specification]	Termir No.	Terminal Color Of No. Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	
99	^	PARKING BRAKE SIGNAL	1	W		13			2	9		
- 67	œ	COMPOSITE IMAGE SIGNAL GND	2	œ		14	٠		2	SHIELD		
89	W	COMPOSITE IMAGE SIGNAL	3	W		15			9	œ	•	
69	9	I-KEY IDENTIFICATION SIGNAL				16	-		_	9		
+	۵					12			00			
┪	SHIELD		Connector No.		M222	18	•		6	B		
72	9	MICROPHONE VCC	Connector Name		WIRE TO WIRE	19	•		10	۵		
73	æ	COMM (CONT->DISP)		.]		20	4		11	æ		
74	а	CAN-L	Connector Type	П	M03MW-LC				12	œ		
75	ΓG	AV COMM (L)	4						13	BR		
76	97	AV COMM (L)	B			Conne	Connector No.	R1	14	>		
79	SB	DIMMER SIGNAL	¥			Conne	Connector Name	WIRE TO WIRE	17	PI		
80	W	IGNITION SIGNAL	Ž		_		allina long	with 10 miles	18	٦		
81	BG	REVERSE SIGNAL			c	Conne	Connector Type	NS08FW-CS	19	g		
82	В	Ň				4			20	œ		
	SHIELD					ß	_		21	В		
84	8	COMPOSITE IMAGE SYNC SIGNAL				•	e		22	8		
H	æ	MICROPHONE SIGNAL	ıal	Color Of	Signal Name [Specification]	211	2]	23	GR		
+	SHIELD		No.	Wire		7		8 7 6 5 4	24	۵.		
68	>	COMM (DISP->CONT)	1	3		_						
06	-[CAN-H	+	œ	,	T			Ĺ	ſ		
91	88	AV COMM (H)	e e	>		\ _			Connector No.	T	R7	
95	SB	AV COMM (H)				Terminal No.	nal Color Of Wire	Signal Name [Specification]	Connector Name		WIRE TO WIRE	
						1	t		Connector Type	Г	TH24FW-NH	
						3	œ		֓֞֞֜֜֞֜֜֜֟֜֜֓֓֓֓֓֓֟֜֟֜֟֜֟֜֟			
						4	BG		ß			
						5	\dashv		Š			
						9	+		io.		12 14 14 10 0 1 7 6 5 4 3 2 4	
							+				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
						00	BR.	-	_		24 23 22 21 20 19 18 17 16 15 14 13	

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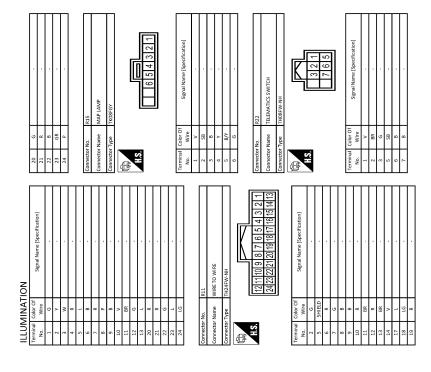
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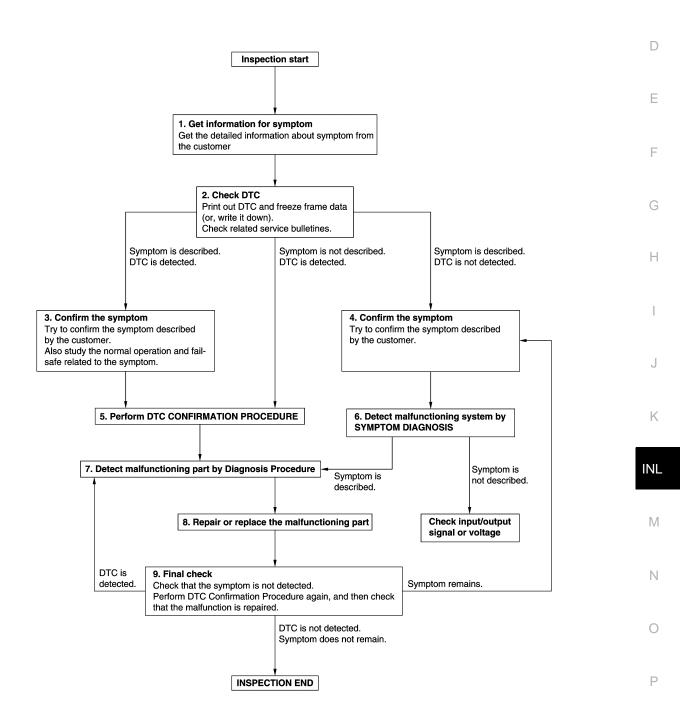
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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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 CONFIR-MATION 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 CON-SULT.

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

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replace-
- 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.

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

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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:0000000012356069

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
- 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:0000000012356070

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

(R)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.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 5. With operating the test item, check voltage between BCM harness connector and ground.

В	СМ				
(+)	(–)	Test	item	Voltage (Approx.)
Connector	Terminal				(11 -)
M122	56	Ground	BATTERY SAVER	Off	0 V
IVITZZ	30	Ground	DATTERT SAVER	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]

$\overline{2.}$ 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.

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

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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M122	56		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair or replace harnesses.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:000000012356071

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

${f 1}$.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

PCONSULT 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.
- 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

(P)CONSULT ACTIVE TEST

- 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.

В	CM		Test	item	Continuity
Connector	Terminal	Ground	1630	. Item	Continuity
M122	63	Giodila	INT LAMP	On	Existed
101122	03		INT LAWF	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 <u>BCS-95, "Removal and Installation"</u>.

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 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]

В	СМ		Foot lamp		Continuity
Connector	Terminal	Con	nector	Terminal	Continuity
M122	63	Driver side	M186	2	Existed
IVIIZZ	03	Passenger side	M114	2	Existed

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

В	CM	Мар	lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M122	63	R15	2	Existed

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

Person	nal lamp	Мар	lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
R14	3	R15	4	Existed

Is the inspection result normal?

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

NO >> Repair or replace harnesses.

${f 3.}$ CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M122	63		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-95, "Removal and Installation". YES

NO >> Repair or replace harnesses.

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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:0000000012356075

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.
- Check continuity between BCM harness connector and ground.

ВСМ			Condition		Continuity
Connector	Terminal	Ground		uition	Continuity
M121	M121 49		Trunk lid	Open	Existed
IVITZT			Trutik iiu	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 <u>BCS-95</u>, "Removal and <u>Installation"</u>.

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.

В	CM	Trunk room lamp		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
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

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

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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

Description INFOID:0000000012356076

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

Component Function Check

INFOID:0000000012356077

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NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

1. CHECK STEP LAMP OPERATION

(R)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

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- ©CONSULT ACTIVE TEST
- Turn ignition switch OFF.
 Remove the step lamp bulbs (ALL).
- 3. Turn ignition switch ON.
- 4. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- With operating the test item, check continuity between BCM harness connector and ground.

ВСМ			Tost	item	Continuity
Connector	Terminal	Ground	1631	item	Continuity
M122	62	Ground STEP LAMP TES		On	Existed
IVI I ZZ	02		SIEF LAWIP IEST	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

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

ВС	M		Step lamp		Continuity
Connector	Terminal	Conn	Connector		Continuity
		Driver side	D12		F I
M4.00	62	Passenger side	D42		
M122 62	Rear LH	D57	2	Existed	
		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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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:000000012356079

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

Diagnosis Procedure

INFOID:0000000012356080

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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.

ВСМ			Con	dition	Continuity
Connector	Terminal	Ground	Condition		Continuity
M123	M122 72		Any door	Open	Existed
IVI 123	72		Ally door	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 <u>BCS-95</u>, "Removal and <u>Installation"</u>.

2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

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

В	CM	Outside Handle lamp			Continuity
Connector	Terminal	Connector		Terminal	Continuity
M123	M123 72		D17	4	Existed
WIZS	12	Passenger side	D47	4	LAISted

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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair or replace harnesses.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:000000012356081

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

- Turn ignition switch ON.
- Select "ENGINE SW ILLUMI" of BCM (INTELLIGENT KEY) active test item.
- With operating the test items, check voltage between push-button ignition switch harness connector and ground.

(-	+)			Mallana	
Push-button	Push-button ignition switch		Condition		Voltage (Approx.)
Connector	Terminal				(
M50	3	Ground	ENGINE SW ILLUMI	ON	12 V
IVISO	3	Glound	Ground ENGINE SWILLUMI	OFF	0 V

Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 2.

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

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

В	СМ	Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
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]

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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

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

(+) BCM		(-)	Voltage (Approx.)
Connector	Terminal		(47)
M123	92	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to BCS-95, "Removal and Installation".

${f 5.}$ 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	Continuity
M50	2	M123	92	Existed

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

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

Is the inspection result normal?

YES >> Replace push-button ignition switch.

NO >> Repair or replace harnesses.

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[SHORT WHEEL BASE MODELS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

NOTE:

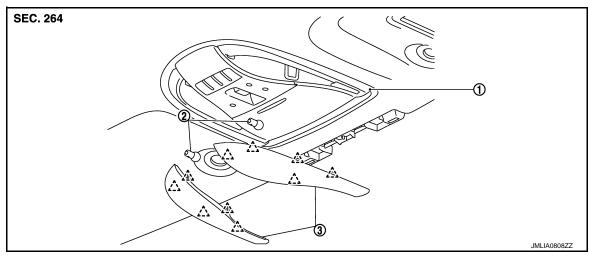
Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

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	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.	BCM Harness between BCM and trunk closure assembly	Trunk lid open signal circuit Refer to <u>DLK-101</u> .
(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 room lamp BCM	Trunk room lamp circuit Refer to INL-66.
Step lamps (ALL) do not turn ON.	Harness between BCM and each step lamp BCM	Door switch circuit Refer to <u>DLK-87</u> .
Step lamps (ALL) do not turn OFF.		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.	ВСМ	Replace BCM. Refer to BCS-95.

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View



Map lamp assembly

2. Bulb

3. Lens

^__ : Pawl

Removal and Installation

CAUTION:

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

Removal

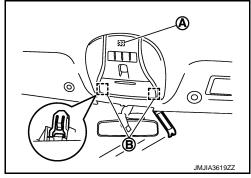
- Remove front and rear assist grips (LH and RH). Refer to INT-57, "Removal and Installation".
- Remove center pillar upper garnish (LH and RH). Refer to <u>INT-46, "CENTER PILLAR UPPER GARNISH:</u> <u>Removal and Installation"</u>.
- 3. Remove partially front body side welt (headlining side).
- 4. Remove 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".
- Remove sun visor assembly (LH and RH). Refer to <u>INT-57, "Removal and Installation"</u>.
- 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".
- Open sunroof glass.
- 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

Remove map lamp assembly.
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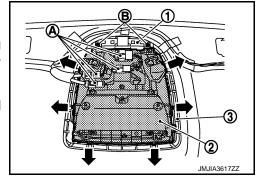
< REMOVAL AND INSTALLATION >

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

- a. Remove harness connector (A).
- b. 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

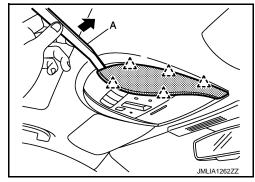
CAUTION:

- 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.

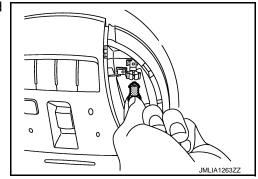
MAP LAMP BULB

 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.



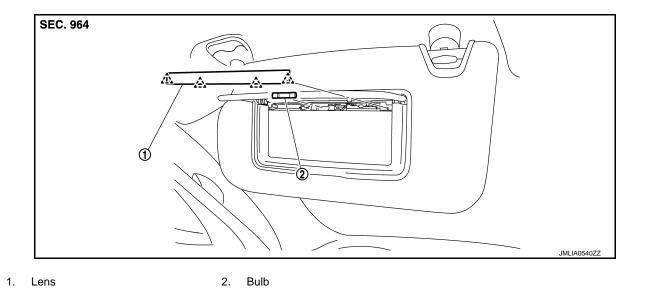


2. Rotate the bulb clockwise or counterclockwise by 90° and remove the bulb as shown in the figure.



VANITY MIRROR LAMP

Exploded View



Replacement

CAUTION:

/へ: Pawl

- 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.

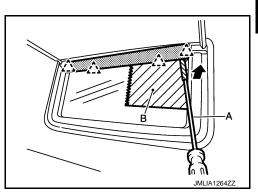
VANITY MIRROR LAMP BULB

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.



CAUTION:

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



Remove the bulb.

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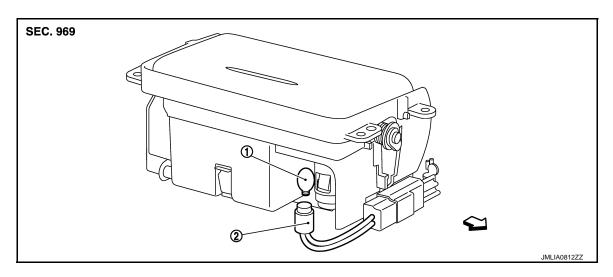
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CIGARETTE LIGHTER ILLUMINATION

Exploded View



1. Bulb

2. Bulb socket

Removal and Installation

INFOID:0000000012356091

- Remove console finisher assembly. Refer to <u>IP-24, "Removal and Installation"</u>.
- Remove ashtray assembly. Refer to <u>IP-24, "Removal and Installation"</u>.

Replacement

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.

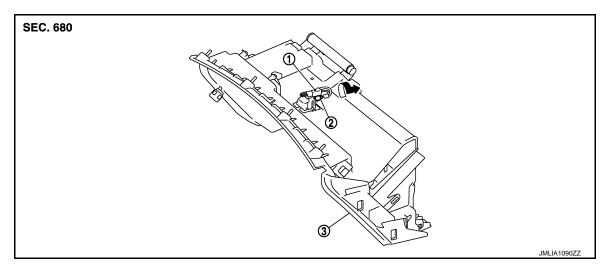
CIGRETTE LIGHTER ILLUMINATION BULB

- Remove console finisher assembly, and then remove ashtray assembly. Refer to <u>IP-24</u>, "Removal and Installation".
- 2. Rotate bulb socket counterclockwise to unlock it.
- 3. Remove the bulb.

[SHORT WHEEL BASE MODELS]

GLOVE BOX LAMP

Exploded View



Bulb socket
 Bulb
 Instrument lower panel RH

Removal and Installation

Refer to IP-12, "Exploded View" for the instrument lower panel RH installation or removal.

Replacement

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".
- Remove glove box assembly, and then remove instrument lower panel RH. Refer to <u>IP-13</u>, "Removal and <u>Installation"</u>.
- 3. Rotate the bulb socket counterclockwise to unlock it.
- Remove the bulb.

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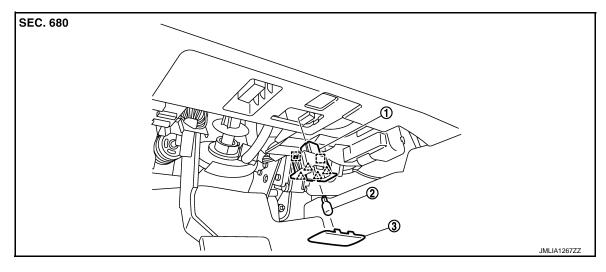
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FOOT LAMP DRIVER SIDE

DRIVER SIDE: Exploded View

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Foot lamp case

Bulb

3. Lens

: Pawl : Metal clip

DRIVER SIDE: Removal and Installation

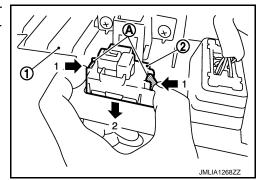
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CAUTION:

- 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

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CAUTION:

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

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< REMOVAL AND INSTALLATION >

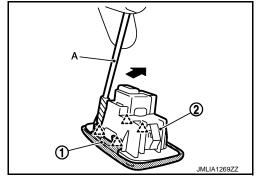
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare hands because the surface is very hot just after the lamp is turned OFF to prevent a burns.
- Leaving the bulb removed from 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

- Remove the foot lamp assembly. Refer to <u>INL-78</u>, "<u>DRIVER SIDE</u>: <u>Removal and Installation</u>".
- 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.

Use a remover tool wrapped in tape.

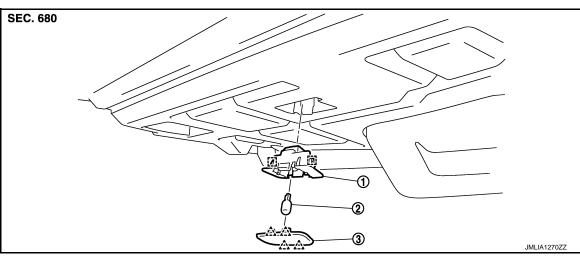




3. Remove the bulb.

PASSENGER SIDE

PASSENGER SIDE: Exploded View



Foot lamp case

2. Bulb

3. Lens

: Pawl

PASSENGER SIDE: Removal and Installation

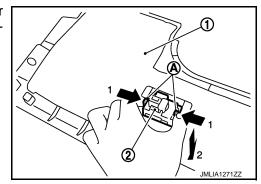
CAUTION:

- 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

< REMOVAL AND INSTALLATION >

- 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

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CAUTION:

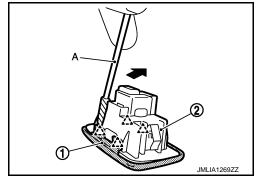
- Disconnect the battery negative terminal or remove power circuit fuse while performing the operation to electric leakage.
- Never touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.
- Never touch the glass surface of the bulb with bare 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

- Remove the foot lamp assembly. Refer to <u>INL-79, "PASSENGER SIDE: Removal and Installation"</u>.
- 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.

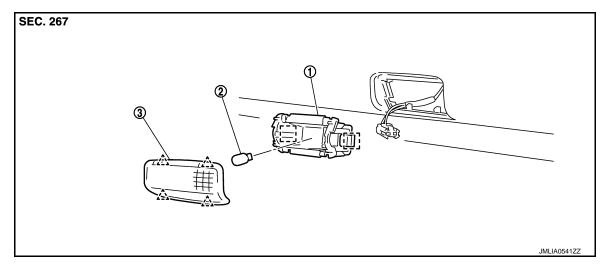




Remove the bulb.

STEP LAMP

Exploded View



Step lamp case

2. Bulb

3. Lens

^ : Pawl : Metal clip

Removal and Installation

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

- Insert any appropriate tool into the gap between the step lamp case and door finisher to remove step lamp case.
- 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

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

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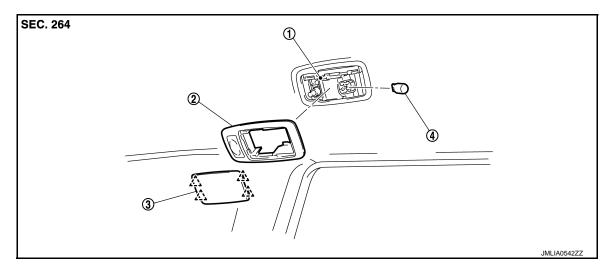
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PERSONAL LAMP

Exploded View



- Personal lamp case
- Personal lamp finisher
- 3. Lens

4. Bulb

______: Pawl

Removal and Installation

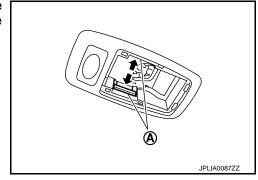
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CAUTION:

- 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

- 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.

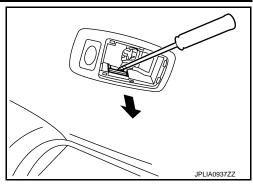
INSTALLATION

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.
- Remove the bulb.

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OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP

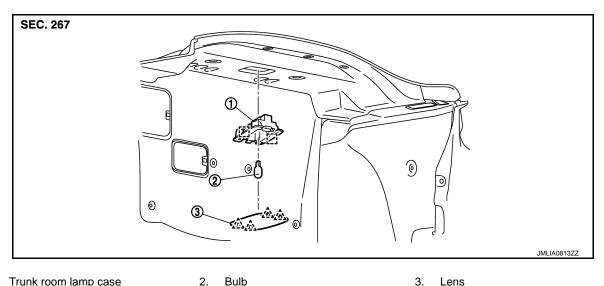
Exploded View

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

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TRUNK ROOM LAMP

Exploded View



Trunk room lamp case

: Pawl

: Metal clip

Removal and Installation

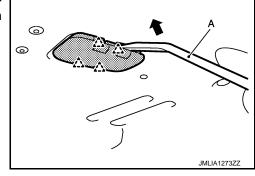
CAUTION:

- · 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

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.

/气:Pawl



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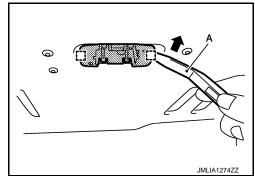
TRUNK ROOM LAMP

< REMOVAL AND INSTALLATION >

[SHORT WHEEL BASE MODELS]

 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.





3. Disconnect trunk room lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

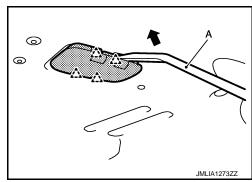
CAUTION:

- 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.





Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

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[SHORT WHEEL BASE MODELS]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb specifications

Item	Туре	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

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PRECAUTION

PRECAUTIONS

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

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:

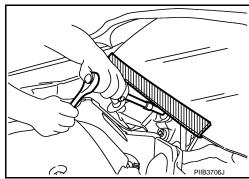
windshield.

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

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



Precautions for Removing Battery Terminal

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

- Always use a 12V battery as power source.
- · Never disconnect battery terminal while engine is running.

PRECAUTIONS

< PRECAUTION >

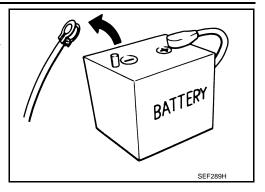
[LONG WHEEL BASE MODELS]

 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 ZD30DDTi K9K engine : 4 minutes : 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.

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PREPARATION

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[LONG WHEEL BASE MODELS]

PREPARATION

PREPARATION

Commercial Service Tool

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Tool name		Description
Remover tool	JMKIA3050ZZ	Removes clips, pawls and metal clips

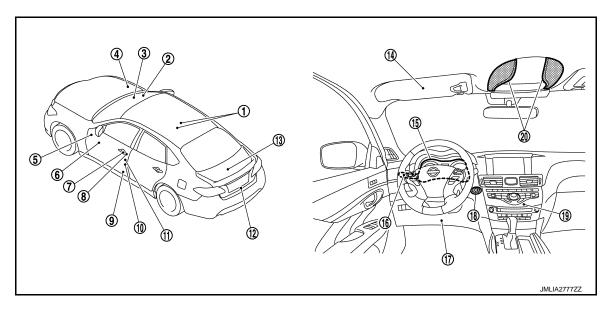
[LONG WHEEL BASE MODELS]

SYSTEM DESCRIPTION

COMPONENT PARTS INTERIOR LIGHTING SYSTEM

INTERIOR LIGHTING SYSTEM: Component Parts Location

INFOID:0000000012356117



- Rear spot lamp
- IPDM E/R
 Refer to PCS-5, "IPDM E/R: Component Parts Location".
- 7. Outside handle lamp
- 10. Door switch
- 13. Trunk room lamp
- 16. Combination switch
- 19. AV control unit
 - Base audio without navigation:
 Refer to AV-13, "Component Parts
 Location".
 - Bose audio with navigation: Refer to <u>AV-150</u>, "Component Parts Location".

- Remote keyless entry receiver Refer to <u>DLK-10</u>, "<u>DOOR LOCK</u> <u>SYSTEM</u>: <u>Component Parts Location</u>".
 - BCM
 Refer to BCS-5, "BODY CONTROL
 SYSTEM: Component Parts Location".
- 8. Front door request switch (driver side)
- 11. Front door lock assembly (driver side) (unlock sensor)
- 14. Vanity mirror lamp
- 17. Foot lamp
- 20. Map lamp

- Optical sensor
- 6. Door lock and unlock switch
- 9. Step lamp
- 12. Trunk closure assembly
- 15. Combination meter
- 18. Push-button ignition switch

INTERIOR LIGHTING SYSTEM: Component Description

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".

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

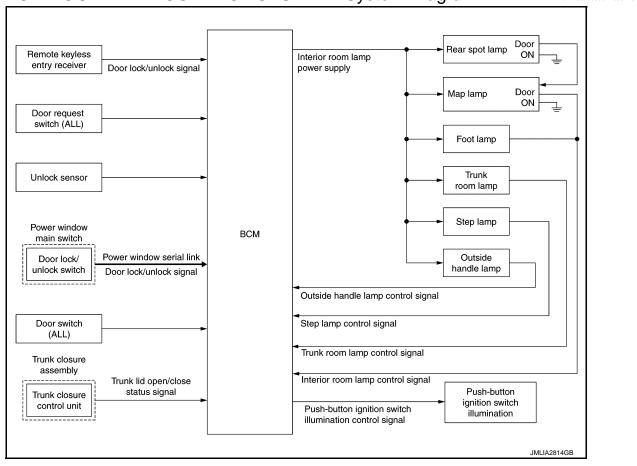
[LONG WHEEL BASE MODELS]

Part	Description
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



INTERIOR ROOM LAMP CONTROL SYSTEM: System Description

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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

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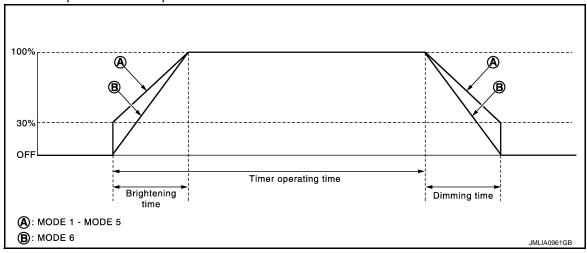
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Interior Room Lamp Timer Basic Operation



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 brightness 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

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

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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, pushbutton ignition switch illumination turns OFF.

Tail lamp turns OFF while ignition switch is OFF.

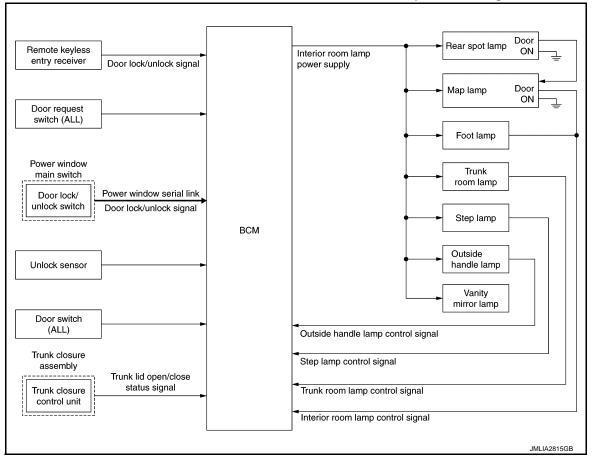
When push-button ignition switch illumination is at 50% brightness or, when in heartbeat status any of the following conditions are satisfied, push-button ignition switch illumination turns OFF.

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

All of following conditions satisfied. Driver side door is closed Driver side door is locked N Intelligent Key ID comparison is NG Comparison of Intelligent Key ID by transponder is NG Driver side door from unlock to lock 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 Р ID comparison by Intelligent Key transponder changes from NG to OK Driver door changes from locked to unlocked INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

INL-95 Revision: April 2016 2016 Q70

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Diagram INFOID:000000



INTERIOR ROOM LAMP BATTERY SAVER SYSTEM: System Description

INFOID:0000000012356122

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.

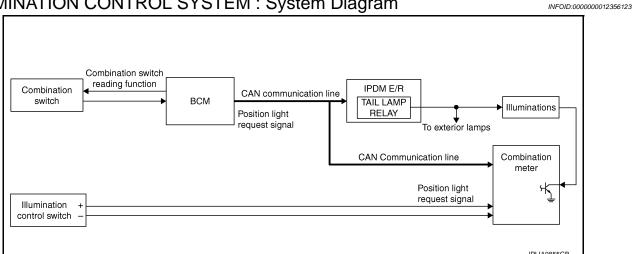
[LONG WHEEL BASE MODELS]

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



ILLUMINATION CONTROL SYSTEM: System Description

INFOID:0000000012356124

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

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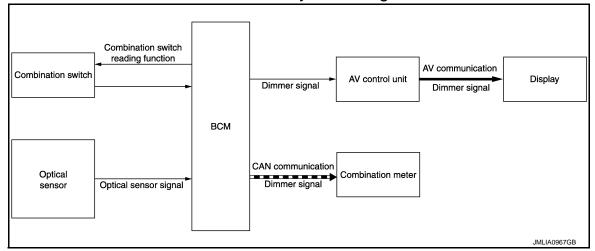
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AUTO LIGHT ADJUSTMENT SYSTEM: System Diagram

INFOID:0000000012356125



AUTO LIGHT ADJUSTMENT SYSTEM: System Description

INFOID:0000000012356126

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	 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.

x: Applicable item Diagnosis mode System Sub system selection item Work Support **Data Monitor** Active Test Door lock DOOR LOCK × X REAR DEFOGGER Rear window defogger X X Warning chime **BUZZER** × X Interior room lamp timer INT LAMP × × × Exterior lamp **HEAD LAMP** × × × **WIPER** Wiper and washer × **FLASHER** Turn signal and hazard warning lamps × × AIR CONDITONER* · Intelligent Key system INTELLIGENT KEY × × X · Engine start system Combination switch COMB SW X Body control system **BCM** × **IVIS - NATS IMMU** X \times \times **BATTERY SAVER** Interior room lamp battery saver X \times X Trunk lid open **TRUNK** × THEFT ALM Vehicle security system X \times \times RAP system **RETAINED PWR** X Signal buffer system SIGNAL BUFFER X X AIR PRESSURE MONITOR* × X X

FREEZE FRAME DATA (FFD)

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

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^{*:} This item is not used.

[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		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is 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"*	
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"	
	ON>CRANK	DTC is detected*	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 The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 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

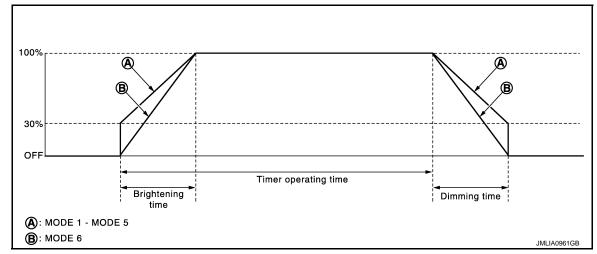
The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

INT LAMP

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

IFOID:0000000012356128

WORK SUPPORT



Service item	Setting item	Setting			
SET I/L D-UNLCK INTCON	On*	With the i	With the interior room lamp timer function		
SET I/L D-ONECK INTOON	Off	Without the interior room lamp timer function			
	MODE 2	7.5 sec.			
ROOM LAMP TIMER SET	MODE 3*	15 sec.	Sets the interior room lamp ON time. (Timer operating time)		
	MODE 4	30 sec.			
	MODE 1	0.5 sec.			
	MODE 2	1 sec.			
ROOM LAMP ON TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual brightening time.		
ROOM LAMP ON TIME SET	MODE 4	3 sec.			
	MODE 5	0 sec.			
	MODE 6*	Gradually brightens from 0% to 100% brightness in 1 second.			
	MODE 1	0.5 sec.			
	MODE 2	1 sec.			
ROOM LAMP OFF TIME SET	MODE 3	2 sec.	Sets the interior room lamp gradual dimming time.		
ROOM LAMP OFF TIME SET	MODE 4	3 sec.			
	MODE 5	0 sec.			
	MODE 6*	Gradually dims from 100% to 0% in 1 second.			
D. I.	MODE 1*	Interior room lamp timer activates with synchronizing all doors.			
R LAMP TIMER LOGIC SET	MODE 2	Interior room lamp timer activates with synchronizing the driver door only			
a atomy a atting	*				

^{*:} 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.

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< SYSTEM DESCRIPTION >

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS [On/Off]	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-RR [On/Off]	NOTE: 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.
INI LAWF	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)

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[LONG WHEEL BASE MODELS]

Service item	Setting item	Setting	
	MODE 1	30 min.	Sets the interior room lamp battery saver timer operating
	MODE 2	60 min.	time. NOTE:
ROOM LAMP TIMER SET	MODE 3	15 min.	The factory setting is 10 minutes. The setting cannot be returned to the factory setting, when the setting is changed once.
BATTERY SAVER SET	On*	With the e	exterior lamp battery saver function
BATTERT SAVER SET	Off	Without th	ne exterior lamp battery saver function
	MODE 1	Without	
	MODE 2	30 min.	
IGN BATTERY SAVER SET	MODE 3*	10 min.	Sets the ignition battery saver timer operating time.
	MODE 4	5 min.	
	MODE 5	60 min.	
	MODE 1	Without	
ACC BATTERY SAVER SET	MODE 2*	30 min.	
	MODE 3	10 min.	Sets the accessory battery saver timer operating time.
	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:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
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

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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.

[LONG WHEEL BASE MODELS]

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012356130	

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

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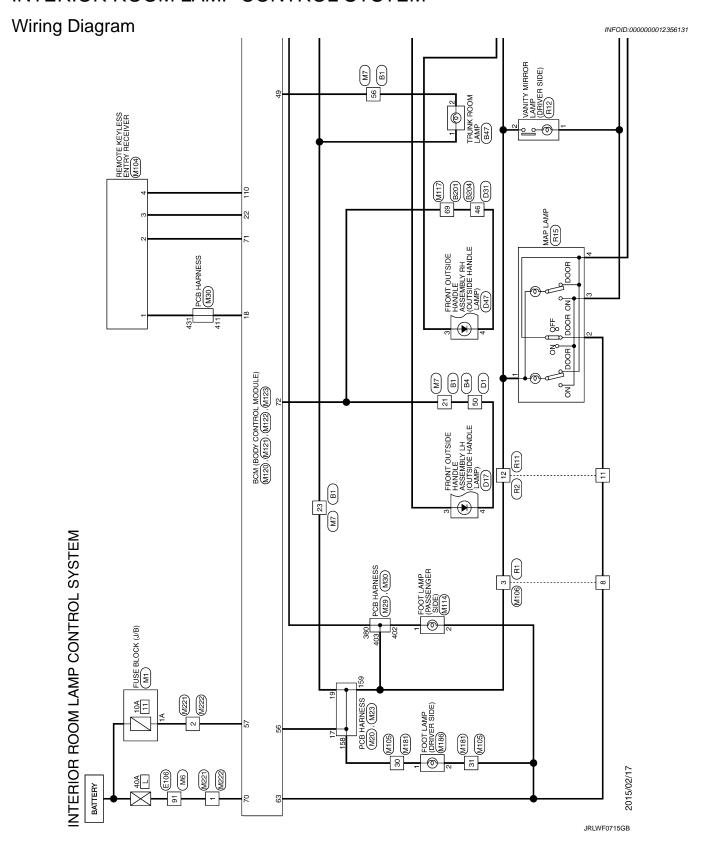
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WIRING DIAGRAM

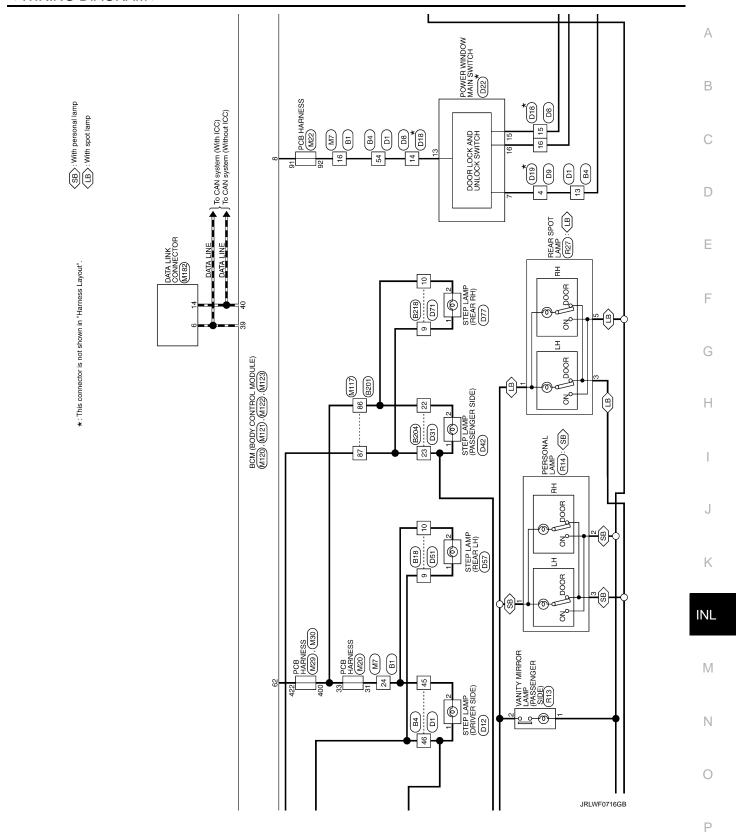
INTERIOR ROOM LAMP CONTROL SYSTEM

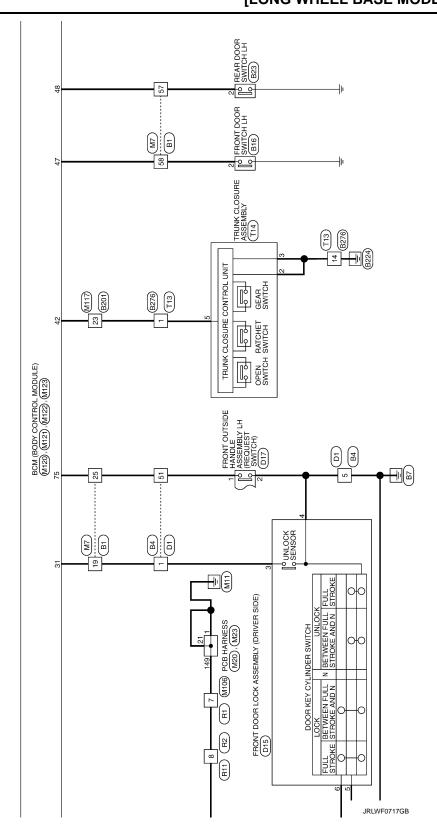


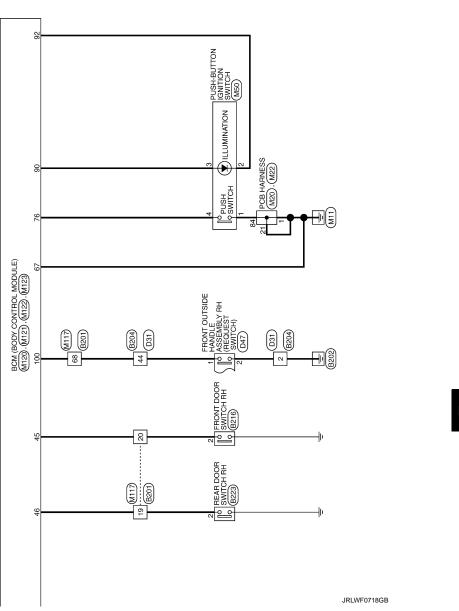
INTERIOR ROOM LAMP CONTROL SYSTEM

< WIRING DIAGRAM >

[LONG WHEEL BASE MODELS]







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INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

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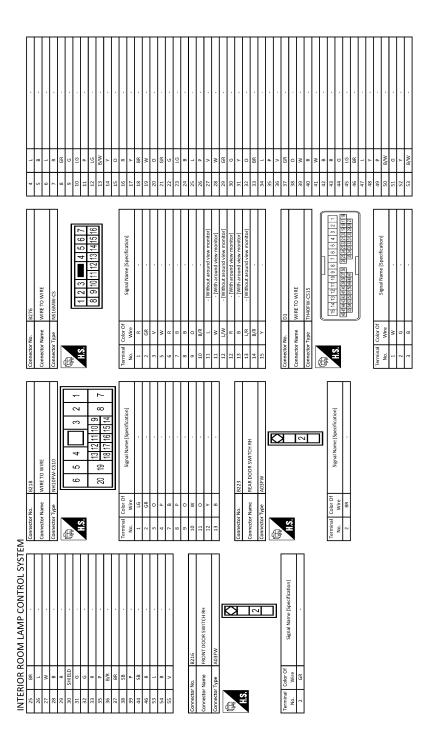
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INTERIOR ROOM LAMP CONTROL SYSTEM

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 | 2.7 SH P P P P P P P P P

 | 2.7 SH F P P P P P P P P P | 2.7 SHI E | 2.7 SH F P P P P P P P P P | 2.7 SH P P P P P P P P P

 | 2.7 SH F P P P P P P P P P | 2.7 SH P P P P P P P P P
 | 2.7 SH F P P P P P P P P P | 2.7 SH P P P P P P P P P
 | 2.2 SH P
 | 2.7 SH P P P P P P P P P
 | 2.2 SH P
 | 2.2 SH P | 2.2 SH P
 | 2.7 SH P P P P P P P P P
 | 2.7 SH P P P P P P P P P | 2.2 SH P | 2.2 SH P
 | 2.2 SH P | 2.7 SH P P P P P P P P P | 2.7 SH P P P P P P P P P
 | 2.7 SH P P P P P P P P P |
| 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 X 31 BK 99 Y 9 K 1 W M 34 C 100 Y 9 K 1 K 1 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M

 | 28 LVG 94 LVG NVG

 | 28 LVG 94 LG NIO W/VE 29 LVG 94 RG 1 W 29 W/V 95 W 9 W 9 W | 28 LVG 94 LG NIO W/VE 29 LVG 94 RG 1 W 29 W/V 95 W 9 W 9 W | 28 LVG 99 LG NV
 | 28 LVG 99 LG NV
 | 28 LVG 99 LG NV
 | 28 LVG 99 LG NVG

 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 X 31 BK 99 Y 9 K 1 W M 34 C 100 Y 9 K 1 K 1 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M

 | 28 LVG 99 LG NV | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 X 31 BK 99 Y 9 K 1 W M 34 C 100 Y 9 K 1 K 1 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M
 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 30 W/V

 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 30 W/V
 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 30 W/V
 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 X 31 BK 99 Y 9 K 1 W M 34 C 100 Y 9 K 1 K 1 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M
 | 28 LVG 99 LG NO W/VE 29 W/V 94 BK 1 W 29 W/V 94 K 9 X 31 BK 99 Y 9 K 1 W M 34 C 100 Y 9 K 1 K 1 M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M M

 | 28 LVG 94 LG NIO W/VE 29 LVG 94 RG 1 W 29 W/V 95 W 9 W 9 W | 28 LVG 94 LVG NVG | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG

 | 28 LVG 94 LVG NVG | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG | 28 LVG 94 LVG NVG | 28 LVG 94 LVG NVG
 | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG | 28 LVG 94 LG NIO W/VE 29 LVG 94 RG 1 W 29 W/V 95 W 9 W 9 W | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG

 | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG

 | 28 LVG 94 LVG NVG | 28 LVG 94 LG NIO W/VE 29 LVG 94 RG 1 W 29 W/V 95 W 9 W 9 W | 28 LVG 94 LVG NVG | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG
 10 LVG
 | 28 LVG 94 LVG NVG | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L
 < | 28 LVG 94 LVG NVG | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L <
 | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG
 | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L <
 | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG
 | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG
 | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L < | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L <
 | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG | 28 SHRIED 94 LG NVG NVG NVG 10 WVG NVG 11 WVG 12 WVG 12 WVG 13 WVG 13 WC NVG
 | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L < | 28 LVI 94 LG NVI NVI 29 LVI 94 RR 10 WVI 29 LVI 95 RV 9 10 WI 31 GR 99 V 9 KI 33 C 100 V 9 V 34 V 9 V 9 V 41 RR 9 V 45 LV 9 V 41 RR 9 V 45 L < | 28 LVG 94 LVG NVG NVG 29 LVG 94 RVG 10 WVG 29 LVG 95 RV 9 3 58 R 9 10 WV 9 10 LVG 10 LVG |
| 238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 R 9 R 9 R 9 R 9 R 9 R 9 9 R 9 9 9 9 </td><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10
 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></t<><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td<></td></t<> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - -
 - - -<td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -<td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -<td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 6 W 41 BR 6 W 45 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y
 . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23
1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td> | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R B/R <td< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 95 R 9 R 9 R 9 R 9 R 9 R 9 9 R 9 9 9 9 </td><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238
L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></t<><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - -
 - - - - - - - -</td></td></td<> | 238 L/O 94 B/R 1 W 331 B/R 95 W 95 | 238 L/O 94 B/R 1 W 331 B/R 95 W 95 | 238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N
 | 238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N
 | 238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N
 | 238 L/O 94 B/R 1 W 331 B/R 95 R 9 R 9 R 9 R 9 R 9 R 9 9 R 9 9 9 9

 | 238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N </td><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - -
 - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></t<> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td> | 238 L/O 94 B/R 1 W 331 B/R 95 N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 9 N N 10 N 9 N N 10 N 10 N 10 N 10 N | 238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 3
 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G
- 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td></td></t<> <td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td> | 238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C </td <td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W
 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td></td> | 238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C </td <td>238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C<!--</td--><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W
 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td> | 238 L/O 94 B/R 1 W 331 B/R 3 W 3 S/R 332 C 3 W 3 S/R 333 O W S/R W S/R 344 Y W S/R W 441 B/R W S/R W 445 W W S/R S/R 446 W W S/R S/R 446 C W S/R S/R 446 C W S/R S/R 447 W S/R S/R S/R 448 C W S/R S/R 449 C W S/R S/R 440 W S/R S/R S/R 441 W S/R S/R S/R 442 C W S/R S/R 445 C </td <td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W
 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td> | 238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></td></t<> <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td> | 238 L/O 94 B/R 1 W 331 B/R 7 W 3 10 W 332 O 7 R 7 R 10 W 333 O 7 N 7 S W 341 Y N 7 S W 441 B/R N S G 442 W N
 S G 443 W N S G 444 W N S C 445 W N S C 445 W N S C 445 W N S C 446 W N S C 447 W S C N 448 W S C C 449 W S C C <t< td=""><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td></t<> <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<></td>
 | 238 L/O 94 B/R 1 W 331 B/R 95 W 95 | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<> | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 10 W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -

 | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W W 9 B/R W 9 B/R W 9 B/R B/R <td< td=""><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td<> | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W < | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W
 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W < | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - | 238 L/O 94 B/R 1 W 331 B/R 95 W 95 | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - -
 - - - - - - - - - - - - - <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -<td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -<td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 6 W 41 BR 6 W 45 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99
 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W
 </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td></td> | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>238 L/O 94 B/R 1 W 331 B/R 95 W 95</td> <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -<td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W
 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 6 W 41 BR 6 W 45 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR
 </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td><td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td></td> | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W < | 238 L/O 94 B/R 1 W 331 B/R 95 W 95 | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W < | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y
 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <</td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 6 W 41 BR 6 W 45 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R
 . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W </td> <td>23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - -</td> | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W <
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W | 238 L/O 94 B/R 1 W 331 B/R 97 W 9 W 9 W 9 W 9 W 9 W 9 W W 9 W W 9 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W < | 23 1/O 94 8R 1 W 1 W 31 WIL . 95
 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 6 W 41 BR 6 W 45 W 44 W
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6 . 99 Y . 4 16 34 Y . . 96 W . 96 W 41 BR | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W
 | 23 1/O 94 8R 1 W 1 W 31 WIL . 95 W . 3 2 W 32 6R . 98 Y . 4 105 34 Y . 99 Y . 6 W 41 BR . . 99 Y . 6 W 42 W 44 W | 23 t/O 94 8R 1 W 1 W 31 W/L - 95 W - 9 W - 9 W 32 G - 99 Y - 4 1G W 34 Y - 100 Y - 6 W 41 BR - - 99 Y - 6 W 42 W - - 100 Y - 6 W 44 W - - - - 9 Y 45 G - - - - - 9 Y 44 W - - - - - - - - - - - - - - - - - - - - - - - - - |
| 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 9 W 4.0 G

 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96
 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y

 | 2.9 W/O 9.9 PK 2 W 3.1 B/R 2 W 2 W 3.2 G 9.7 K 2 W 3.6 G 9.9 V 6 W 3.6 G 10.0 V 6 W 4.1 B/R 9 V 9 W 4.2 W 9 V 9 W 4.2 W 9 V 9 V 4.2 W 9 V 9 V 4.5 W 9 V 9 V 4.5 W 9 V 0 V 4.5 W 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V | 2.9 W/O 9.9 PK 2 W 3.1 B/R 2 W 2 W 3.2 G 9.7 K 2 W 3.6 G 9.9 V 6 W 3.6 G 10.0 V 6 W 4.1 B/R 9 V 9 W 4.2 W 9 V 9 W 4.2 W 9 V 9 V 4.2 W 9 V 9 V 4.5 W 9 V 9 V 4.5 W 9 V 0 V 4.5 W 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 997 V . 9 K 3.4 V . 999 V . 5 W 4.0 3.6 G 4.4 W 4.5 W
 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 997 V . 9 K 3.4 V . 999 V . 5 W 4.0 3.6 G 4.4 W 4.5 W
 | 2.9 W/O 9.9 BK . 2 W 3.1 BR .
997 R . 9 B 3.2 G . 997 V . 9 K 3.4 V . 999 V . 5 W 4.0 3.6 G 4.4 W 4.5 W | 2.9 W/L 9.7 BK . 2 W/L 3.1 BR . 997 R . 9 B 3.2 G
 . 999 V . 9 K 3.6 G . . 999 V . 9 K 4.1 BR K K 4.1 BR K K 4.5 W K K 4.1 BR K 4.5 W K 4.1 BR
 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 9 W 4.0 G

 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 997 V . 9 K 3.4 V . 999 V . 5 W 4.0 3.6 G 4.4 W 4.5 W | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 9 W 4.0 G

 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 K 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 6 W 4.0 G
 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 K 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 6 W 4.0 G

 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 K 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 6 W 4.0 G
 | 2.9 W/O 9.9 BK . 2 W 3.1 BR . 997 R . 9 B 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 9 W 4.0 G
 | 2.9 W/O 9.4 BK . 2 W 3.1 BR . 997 R . 9 K 3.2 G . 999 V . 9 K 3.6 G . . 999 V . 9 W 4.0 G
 | 2.9 W/O 9.9 PK 2 W 3.1 B/R 2 W 2 W 3.2 G 9.7 K 2 W 3.6 G 9.9 V 6 W 3.6 G 10.0 V 6 W 4.1 B/R 9 V 9 W 4.2 W 9 V 9 W 4.2 W 9 V 9 V 4.2 W 9 V 9 V 4.5 W 9 V 9 V 4.5 W 9 V 0 V 4.5 W 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y
 | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7

 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y
 | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7 | 2.9 W/O 9.9 PK 2 W 3.1 B/R 2 W 2 W 3.2 G 9.7 K 2 W 3.6 G 9.9 V 6 W 3.6 G 10.0 V 6 W 4.1 B/R 9 V 9 W 4.2 W 9 V 9 W 4.2 W 9 V 9 V 4.2 W 9 V 9 V 4.5 W 9 V 9 V 4.5 W 9 V 0 V 4.5 W 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7 | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7 | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C
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 | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7

 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 2.9 W/O 9.9 PK 2 W 3.1 B/R 2 W 2 W 3.2 G 9.7 K 2 W 3.6 G 9.9 V 6 W 3.6 G 10.0 V 6 W 4.1 B/R 9 V 9 W 4.2 W 9 V 9 W 4.2 W 9 V 9 V 4.2 W 9 V 9 V 4.5 W 9 V 9 V 4.5 W 9 V 0 V 4.5 W 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V 4.5 L 0 V 0 V
 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7

 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -
 | 23 W/L 94 BK 2 W 23 W/L 95 K 2 W 33 G . 99 Y 6 K 34 Y . 99 Y 6 K 36 G . 99 Y 6 K 43 Y . 6 K K 43 W . 96 W K 44 W . 96 Y 96 G 44 W . 96 Y 96 Y 45 L . 96 Y 96 Y 45 L . 11 R R 46 C . . 11 R Y | 29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - - | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V
 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V </td <td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td> <td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W<td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>23 W/O 94 BK 2 W 23 W/L
95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7</td></td></td></td></td></td></td> | 29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - - | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V </td <td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6
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 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W<td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7</td></td></td></td></td> | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V </td <td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td> <td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td> <td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W<td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - -
 - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7</td></td></td></td> | 29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - - | 29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - - | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V </td <td>29 W/O 94 BK 2
 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V<!--</td--><td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W<td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7</td></td></td> | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 35 V 99 V 5 W 43 BR 99 V 96 W 43 BR 99 V 90 V 44 W 90 V 90 V 45 L 90 V 90 V 45 L 90 V V 45 L 90 V V V V V V </td <td>29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W<td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - - 9 Y 45 C - - - - - - - - - - - - - - - - - -</td><td>23 W/O 94 BK 2 W 23 W/L 95 K 2 W 33 C 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 34 V 99 V 9 K 43 W 99 V 9 K 43 W 9 V 9 W 44 W 9 C 9 V 45 L 11 R 11 R 46 C 7 7 11 R 7</td></td> | 29 W/O 94 BK 2 W 23 W/A 95 K 2 W 32 G 99 V 4 3 5B 34 V 99 V 4 0 W 35 V 99 V 5 W 41 BR 99 V 96 W 42 W 99 V 90 V 43 BR 90 V 90 V 44 W 90 V W 45 L W W W 45 V 9 V W W W W <td>29 W/L 9 W - 4 W 31 BR - 95 Y - 4 3 5B 32 G - 99 Y - 4 4 1 6 34 Y - 99 Y - 5 W 43 Y - 99 Y - 6 W 43 Y - - 90 Y - 6 W 44 W - - - - 9 Y 45 L - - - - - 9 Y 44 W - - - - -
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| 32 W/L - 95 W - 98 Y - 4 LG W 32 6 - 98 Y - 4 LG W 34 Y - 99 Y - 6 W 36 G - - 99 Y - 6 W 41 BR - - 99 Y - 90 Y 44 W - - - 9 Y - 45 L - - - - 9 Y 45 L - - - - 9 Y 46 CR - - - - - 9 Y 46 CR - - - - - - 9 Y 45 L - - - - </td <td> 23 W </td> <td> 23 8W </td> <td> 23 8W </td> <td>3.2 BWL 95 W 3 5B 3.2 G 98 Y 4 1G 3.4 Y 99 Y 6 W 3.5 G 6 W 4.1 BR 6 W 4.2 L 9 Y 4.2 L 9 Y 4.1 BR 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 4.5 W <td< td=""><td>3.2 BWL 95 W 3 5B 3.2 G 98 Y 4 1G 3.4 Y 99 Y 6 W 3.5 G 6 W 4.1 BR 6 W 4.2 L 9 Y 4.2 L 9 Y 4.1 BR 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 4.5 W <td< td=""><td>3.2 BWL 95 W 3 5B 3.2 G 98 Y 4 1G 3.4 Y 99 Y 6 W 3.5 G 6 W 4.1 BR 6 W 4.2 L 9 Y 4.2 L 9 Y 4.1 BR 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 9 Y 4.5 W 4.5 W <td< td=""><td>3.2 BWL 95 W 88 88 4 1.6 4 1.6 4 1.6 4 1.6 <td< td=""><td>32 W/L - 95 W - 98 Y - 4 LG W 32 6 - 98 Y - 4 LG W 34 Y - 99 Y - 6 W 36 G - - 99 Y - 6 W 41 BR - - 99 Y - 90 Y 44 W - - - 9 Y - 45 L - - - - 9 Y 45 L - - - - 9 Y 46 CR - - - - - 9 Y 46 CR - - - - - - 9 Y 45 L - - - -<!--</td--><td>3.2 BWL 95 W 3 58 3.2 G 98 Y 4 1G 3.4 Y 99 Y 6 W 3.5 G 6 W 4.1 B.R 6 W 4.2 L. 9 Y 4.2 L. 9 Y 4.4 B.R 9 Y 4.5 W </td><td>32 W/L - 95 W - 98 Y - 4 LG W 32 6 - 98 Y - 4 LG W 34 Y - 99 Y - 6 W 36 G - - 99 Y - 6 W 41 BR - - 99 Y - 90 Y 44 W - - - 9 Y - 45 L - - - - 9 Y 45 L - - - - 9 Y 46 CR - - - - - 9 Y 46 CR - - - - - - 9 Y 45 L - - - -<!--</td--><td>32 W/L - 95 W - 98 Y 4 LG 1 28 W 1 1 1 LG W 1 1 LG W N 1 N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N</td><td>32 W/L - 95 W - 98 Y 4 LG 1 28 W 1 1 1 LG W 1 1 LG W N 1 N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N</td><td>32 W/L - 95 W - 98 Y 4 LG 1 28 W 1 1 1 LG W 1 1 LG W N 1 N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N N</td><td>32 W/L - 95 W - 98 Y - 4 LG W 32 6 - 98 Y - 4 LG W 34 Y - 99 Y - 6 W 36 G - - 99 Y - 6 W 41 BR - - 99 Y - 90 Y 44 W - - - 9 Y - 45 L - - - - 9 Y 45 L - - - - 9 Y 46 CR - - - - - 9 Y 46 CR - - - - - - 9 Y 45 L
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INL-115 Revision: April 2016 2016 Q70

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INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

	Т	Connector Name PCB HARNESS	Connector Type TH40FW-NH	1			S. T.	THE SAME AND THE PARTY OF THE SAME AND THE S				lei	Wire		ec 1	40b B :	\downarrow	В	410 B .	411 B	413 Y	51	8	L	420 SHIELD -	422 V -	Ц	428 V -	4		431 b	435 V	86		d	439 L	440 B -										
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ŀ	154 W	+	157 W	╀	H	L			Connector No.	Connector Name		Connector Type		厚	S.	1				le C	NO. WIFE	╀	╀	366 B	Н	4	Н	_	4	377 V	380	╀	╀	384 GR	╀	1 968	400 V										
						- [With VK56 engine]			,				M23	PCB HARNESS					स्य स्था स्था स्था स्था स्था स्था स्था स्था	१९) तम् १६। १६। १६। १६ १६। १६ १६) १६ १६ १६ १६ १६			Jc.													,											
L	110 A	- 8	113 P	L	9 91	L	L	118 B	L	۸ ۸			Connector No.	Connector Name	,	Connector Type	_	•	Š.				Terminal Color Of	o. Wire	121 R		123 BG	_	4	131 SB	⊥	134	22	136 P	Ļ	- 88	141 W	Ц	Ц	145 B		147 B	_	90 b	11 15	52 B	
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INTERIOR ROOM LAMP CONTROL SYSTEM										M22	PCB HABNESS	┪	TH40FB-NH			<u> </u>	19 73 10 10 10 10 10 10 10 10 10 10 10 10 10				Signal Name [Specification]															,											
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INTERIOR ROOM LAMP CONTROL SYSTEM					
Connector No. M50	Connector No. M105	Connector No. M106	Connector No.	M117	
Connector Name PUSH-BUTTON IGNITION SWITCH	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name	WIRE TO WIRE	
Connector Type TK08FBR	Connector Type TH40FW-NH	Connector Type NS08MW-CS	Connector Type	TH80FW-CS16-TM4	_
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No. Wire Signal Name (Specification)	No. Wire Signal Name [Specification]	No. Wire Signal Name [Specification]	No. Wire	Signal Name [Specification]	
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8 W	10 W		13 W		
	11 W ·		14 L		_
		Connector No. M114	15 R	- [Without ADAS]	
Connector No. M104	+	Connector Name FOOT LAMP (PASSENGER SIDE)	+	- [With ADAS]	_
Connector Name REMOTE KEYLESS ENTRY RECEIVER	15 BK	Connactor Time COSEM	1, GK		
Connector Type TH045W-NH	> 0	٦.	10 18		_
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Toroniani Color Of	34 [6	Signal Name [Specification]	27 K		
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t	╁	2 BR	30 B	•	
2 BR SIGNAL OUTPUT			31 6		_
			32 Y		_
4 R BATTERY			40 SHIELD		_
			41 R		
			42 v		_
			4		
			46 BG	- [With heated seat]	_
			+	 [With climate controlled seat] 	
			+	- [With climate controlled seat]	
			4	- [With heated seat]	_
			488		_

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INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

<	W	IRI	NG	DI	٩GR	AM >	>
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1	+		Connecto	or No.	M120	Connector		A121	99	91	DR DOOR, FL LID UNLK OUTPUT
V V V V V V V V V V	20 I'C		Connecto	or Name	BCM (BODY CONTROL MODULE)	Connector		SCM (BODY CONTROL MODULE)	67	8	GND
V V V V V V V V V V	_	-			(2000)			(220,000,000,000,000,000,000,000,000,000	89	0	PW PWR SPLY (IGN)
1	*		Connecto	or Type	TH40FB-NH	Connector		EA09FB-FHA6-SA	69	٨	PW PWR SPLY (BAT)
The control of the	*					ľ			70	Μ	BAT (F/L)
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1	9		¥			É		Г			
1	~		2		1 2 3 4 5 8 9 0 14 14 148 17 18 10 10	Ź			Connecto		M123
1 1 1 1 1 1 1 1 1 1	×				21222322556 23331223345557 3940			53	Connecto	Г	BCM (BODY CONTROL MODILLE)
No.	97	-									
1	>								Connecto	П	TH40FW-NH
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1	SB		Terminal		Signal Name (Specification)	Terminal	Color Of	Signal Name (Specification)	B		
1 6 RATION OF MANINO WITHOUT COMES WINDOW DELINE STANDS 2 2 2 2 2 2 2 2 2	97		No.	Wire	Designation of the second	No.	Wire	Incompany of a long of the state of the stat	ŧ		K
2	7		,,	9	RR WINDOW DEFG RLY CONT	41	W	TR KEY CYLINDER SW	2		मिलि है सिलि कि
1	*		2	96	COMBI SW INPUT 5	42	В	TRUNK LID OPEN/CLOSE STATUS			211 DU 201 DU 20
1	SB		~	88	COMBI SW INPUT 4	44	>	TR LID OP CANCEL SW			Service Servic
1	В		4	-	COMBI SW INPUT 3	45	GR	PASSENGER DOOR SW			
Compact Comp	_		'n	٥	COMBI SW INPUT 2	46	æ	REAR RH DOOR SW			
1	_		9	ď	COMBI SW INPUT 1	47	97	DRIVER DOOR SW	Terminal		[99] 9
1	۵		00	>	POWER WINDOW SW COMM	48	Ь	REAR LH DOOR SW	No.	Wire	ognalivanie (operincation)
11	8		6	d	STOP LAMP SW 1	49	SB	TR ROOM LAMP CONT	71	88	KYLS ENT RECEIVER COMM
14	_		11	œ	RAIN SENSOR SERIAL LINK	51	BG	TR LID OPEN REQ SW	72	В	OUTS HD LAMP OUTPUT
17 Y SENGREWING SIGNAL SS BR RR DOOR LUNK CUITPUT 76 BB Connector Name 12 Y CONNECTOR NAME CONNECTOR	SHIELD		14	М	OPTICAL SENSOR	23	97	TRUNK LID OPEN REQUEST	73	۸	ONIND
18 8 RECENTING PART SERVING PART OF THE PART OF	9		16	SB	DIMMER SIGNAL	55	BR	RR DOOR UNLK OUTPUT	75	9	DR DOOR REQ SW
19 V TURNS GRIN CUTTATT RANK TANK TANK TANK TANK TANK TANK TANK T	æ	•	17	٨	SENSOR PWR SPLY				92	N8	PUSH SW
1	٦		18	8	RECEIVER / SENSOR GND				78	BR	DRIVER DOOR ANT+
Councidor Name Color Col	9		19	>	TURN SIG RH OUTPUT (FRONT)	Connector		M122	79	8S	DRIVER DOOR ANT-
1	BG		20	9	TURN SIG LH OUTPUT (FRONT)	Johnston		CM (BODY CONTROL MODILLE)	80	91	PASSENGER DOOR ANT+
1	BR		21	а	NATS ANT AMP.			SCINI (BOOL CONTINO DOLL)	81	۸	PASSENGER DOOR ANT-
1	GR		22	GR	KYLS ENT RECEIVER RSSI	Connector		EA09FW-FHA6-SA	82	۸	REAR BMPR ANT+
25 C DOWNER LINK TABLE C DOWNER LINK C	۸		23	9	SECURITY IND CONT	(83	88	REAR BMPR ANT-
1	91		24	_	DONGLE LINK	E			84	BR	ROOM ANT1+
1	^		25	9	NATS ANT AMP.	· ·		Ec E7 F0 E0 E0 E0 E9	85	٨	ROOM ANT1-
1	œ		56	9	I-KEY I DENTIFICATION	Ĉ.		20 20 10 00 80 00 10 00	86	В	ROOM ANT2+
1	٨		59	9	HAZARD SW			69 67 68 69	87	9	ROOM ANT2-
1	BR		30	0	TR LID OPNR SW				88	۸	TRUNK ROOM ANT+
1	1		31	W	DR DOOR UNLK SENSOR				68	8S	TRUNK ROOM ANT-
Comparison Com	>		32	BR	COMBI SW OUTPUT 5				06	×	PUSH-BTN IGN SW ILL PWR
Controlled seat 35 V COMBISTOUTPUT3 No. Wire "high-instanction of the controlled seat 35 V COMBISTOUTPUT3 Sp. R NITRODU LAMP PARS AT Sp. R Sp	ø	모	33	œ	COMBI SW OUTPUT 4	Terminal	Color Of	Cinnal Masso (Consideration)	91	GR	LOCK IND
1	Ν		34	>	COMBI SW OUTPUT 3	No.	Wire	olginal realite [obscultation]	95	8	PUSH-BTN IGN SW ILL GND
1	>		32	>	COMBI SW OUTPUT 2	99	æ	INT ROOM LAMP PWR SPLY	66	>	I-KEY WARN BUZZER
1	≥		36	91	COMBI SW OUTPUT 1	22	æ	BAT (FUSE)	96	88	ACC RELAY CONT
1	>		37	œ	P POSITION	28	7	AIR BAG SIGNAL	97	SB	STARTER RELAY CONT
10 10 10 10 10 10 10 10	æ		39	Ŀ	CAN-H	29	G	PASS DOOR UNLK OUTPUT	86	8	IGN RELAY (IPDM E/R) CONT
100 Signature 100 Signatur	9		40	۵	CAN-L	09	s	TURN SIG LH OUTPUT (SIDE, REAR)	66	œ	IGN RELAY (F/B) CONT
V STEP LAMP CONT 102 BR I RODAL LAMP TIME CONT 104 GR V ALL DOOR, FLUDIOCK CUTPUT 105 R	>					61	>	TURN SIG RH OUTPUT (SIDE, REAR)	100	SB	PASS DOOR REQ SW
ROOM LAMP TIMER CONT						62	>	STEP LAMP CONT	102	BR	P/N POSITION
V ALL DOOR, FL LID LOCK OUTPUT 105 R						63	_	ROOM LAMP TIMER CONT	104	GR	A/T SHIFT SELECT PWR SPLY
						9	>	ALL DOOR, FL LID LOCK OUTPUT	105		C TAND LAND

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Revision: April 2016 INL-119 2016 Q70

ROOM	M Connector No. M182	Connector No. M221	Connector No. R1
Y ACCIND RECEIVER PWR SPLY	Connector Name DATA LINK CONNECTOR	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
	Connector Type BD16FW	Connector Type M03FW-LC	Connector Type NS08FW-CS
Connector No. M181			E
Connector Name WIRE TO WIRE	HS.	H.S.	H.S.
Connector Type TH40MW-NH		- 8	8 7 6 5 4
1.S. 12345678901112131415167181920	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]	Terminal Color Of Signal Name [Specification]
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Terminal Color Of Signal Name [Specification] No. Wire	6 L CAN-H		· · · ·
t	8 LG WS/N	Connector No. M222	╁
		١,	8 BR
ж.	12 P CAN-L		
BR	13 L CAN-H	Connector Type M03MW-LC	
	Н	ģ	Connector No. R2
	16 W POWER	医	Connector Name WIRE TO WIRE
		Ī	П
» <u>·</u>	-144107		Connector Type TH24MW-NH
91 88	Т	2 3	
14 SB	Connector Name FOOT LAMP (DRIVER SIDE)		Author Control of the
Н	Connector Type C02FW		1.3.
Н	ó	lal	12 14 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10
18 6	<u></u>	No. Wire	1-710-71-710-710-10-11-10-11-10-11
╀	HS.	2 8	
	0	3 ×	Terminal Color Of
30 R -			No. Wire Signal Name (specification)
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INTERIOR ROOM LAMP CONTROL SYSTEM

[LONG WHEEL BASE MODELS]

	Connector No. R27	Т	1	The state of the s	III III III III III III III III III II		Ţ.			Terminal Color Of	No. Wire Signal Name [Specification]	1 B	3 Y DOOR	S v GND			Connector No. T13	Commenter Manne		Connector Type NS16FW-CS		1		7 6 5 4 3 2 1		16 15 14 13 12 11 10 9 8				lal	No. Wire	· ·	2 6			ł	ł) (+	>	+	+	12 B -	13 R	14 L	15 P ·								
	Connector No. R14	\neg	1	Œ		64	7 6 1 1			Terminal Color Of	No. Wire Signal Name [Specification]	1 ^	2 B -	3 ү			Connector No. R15	Commonton Name		Connector Type TK08FGY						1 2 6 4 3 7 1				la l	No. Wire	1 ^	2 SB .	╀	H			+																
Σ	Connector No. R12		1	€ E	<u>[</u>		2]		Terminal Color Of	No. Wire Signal Name [Specification]	1 8	2 v			Connector No. R13	Compare Manney Manuffy Manbook Lands (Baccowcop)		Connector Type MCA02FW	C C			15.5		2	1		-	Te I	No. Wire	1 8	2 v																						
INTERIOR ROOM LAMP CONTROL SYSTEM	19 G 20 R	21 R -	+	Н		Connector No. 1811	Τ	Connector Name WIRE TO WIRE	Connector Type TH24FW-NH				113.	. ;	Z4 Z3 ZZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z			Terminal Color Of Signal Manua (Secontination)		2 6 .	S SHIELD .	Т		ł	+	4	10 K	4		13 BR -	14 V -	17 L	18 16	┡	H	21 R	22 B		+	24 P														

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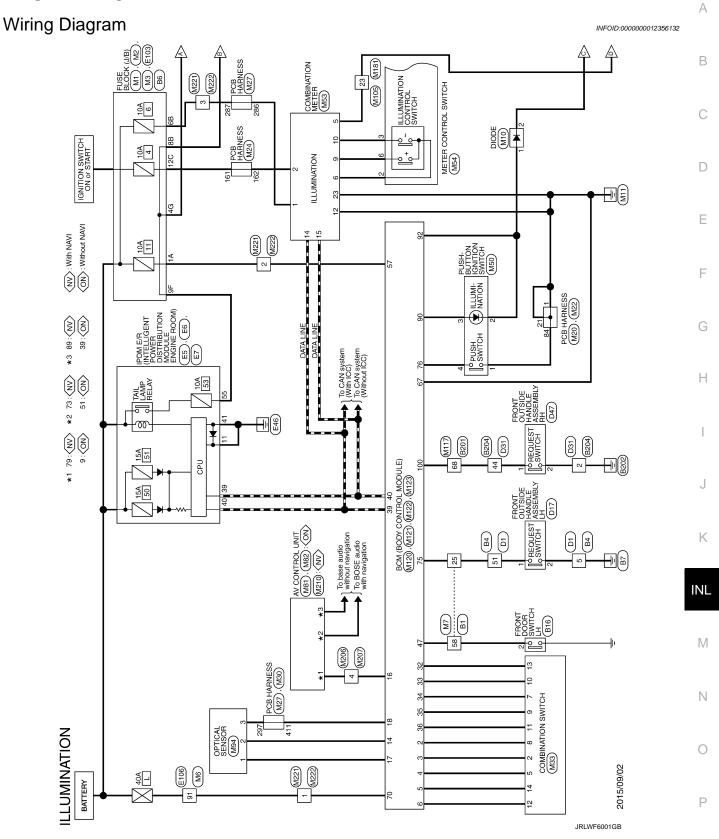
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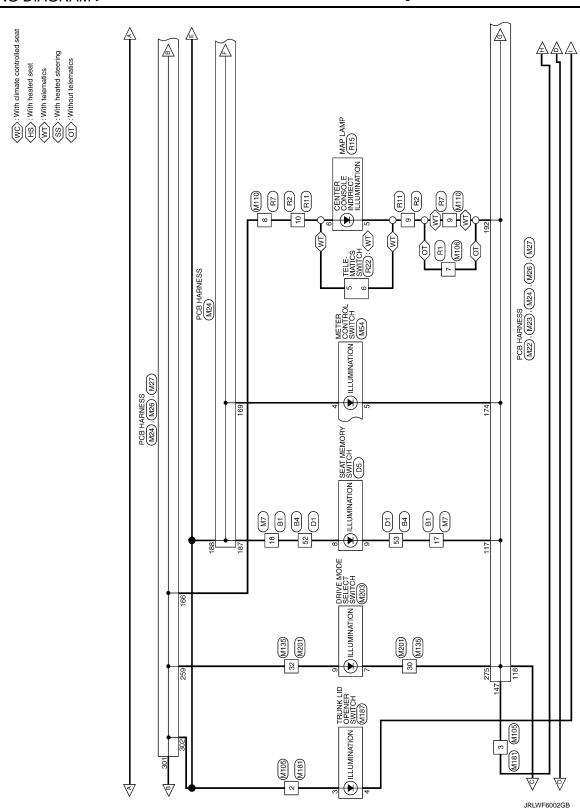
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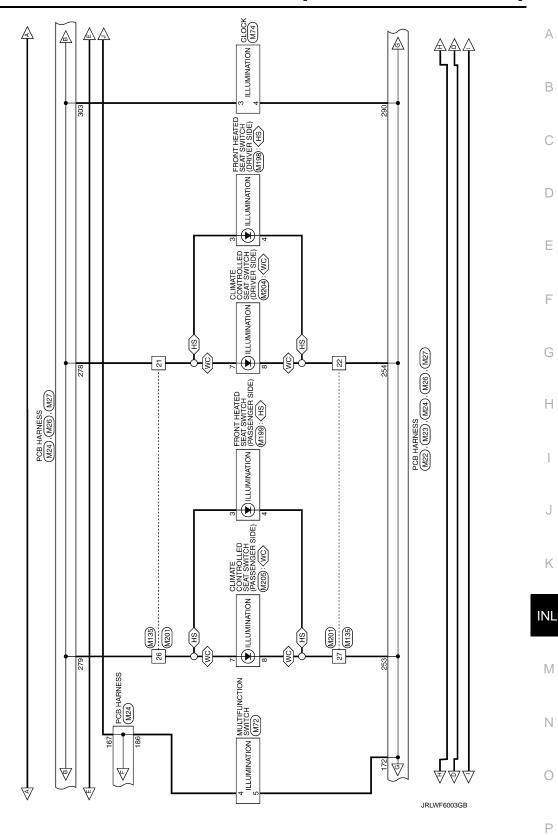
g 4		onnector Type NS06FW-CS		No. No. Name Type Color Of Wire 6 6 1	Connector Connec
	1	Color Of Wire G G G L L L L L L L L L L L L L L L L		> ~	2 9
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1 6 · · · · · · · · · · · · · · · · · ·	7 1 6	Color Of	ogna ivalie jopesmessorij	Wire	No.
Wire 6	Wire 6			Color Of	erminal
Color Of Wire 6	Color Of Wire G		0 5 4 1 1		E S.
NSO6FW-C5	NSOGFW-C5		TRUNK CLOSURE ASSEMBLY	. Name	onnecto
NSOGFW-CC	TRUNK CLO NSO6FW-CS Of		T14	. No.	onnecto
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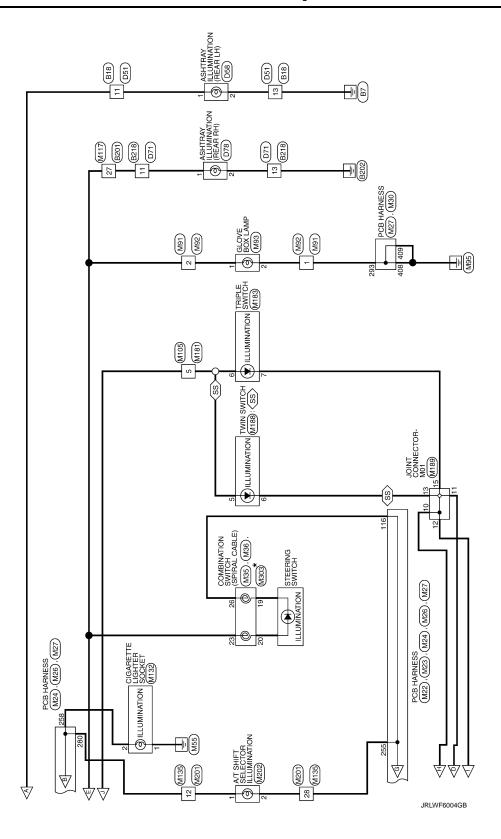
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ILLUMINATION









: This connector is not shown in "Harness Layo

	41	GR/V	,	Conn	Connector No.	B4	36	d 5	
	42	J/M		Conne	Connector Name	WIRE TO WIRE	38	A W	
	44			Conne	Connector Type	TH40MW-CS15	33	0	
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	53	9					46	>	
	95	Ь	•				47	88	•
	57	BR		Terminal)	Signal Name [Specification]	48	GR	
	58	91		No	1		49	91	
	59	>			>		20	۵	
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	61	8	-	3	8	-	52	æ	
	62	91		4	٦		23	8	
	63	^		2	B/W		54	۸	
	9	0		9	7		25	SHIELD	
	99	BR		7	ч				
	29	۸	1	80	L				
- [With climate controlled seat]	89	91		6	H		Connector No.		98
	69	GR		10	91			П	(8)
	70	×		11	H		COLLECT		rose Brock (J/B)
- [With climate controlled seat]	72	_		12	85		Connector Type	Г	NS12FBR-CS
	73	Ь		13	F		_		
	74	٦		14	SB		E C		
	75	Ь		15	_		Y		0,00
	16	٨		16	9		ĊŢ.		3 -
	77	В		17	,				1781161116
	78	W		18	H				1
	79	9		19	GR				
	81	91		20	0				
	82	BR		21	H		Terminal	Color Of	191111111111111111111111111111111111111
	83	8S		22	1		No.	Wire	oignal name [opermeanon]
	84	>		23	SB		106	×	
	85	*		24	┞		116	*	
	98	œ	,	25	M/L		126	GR	
	87	9		56	╀		16	g	
	88	GR	•	27	H		56	G/R	٠
	16	SB		28	╀		46	-	
Ī	92	3		20 20	+		95	, /d	
Ī	96) >		2 %	+		99	ی ا	
Ī	2.0	ļ		ľ	╀		<u>.</u>	,	
	ή, e	o 8		31	+				
	88	95		32	+				
	96	91		33	+				
				34	BB.				
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Γ	Connector No. D31	Connector Name MIDE TO MIDE	П	Connector Type TH40FW-CS15	¢	[]]	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	[48] 44] 44] 44] 44] 44] 45] 53] 53] 53] 53] 53] 53] 53] 53] 53] 5	ड्स इन हर्ड हर्डाहर्डा इस नह	7			Terminal Color Of	No.	2 B	3 B/W		> 6	- B	ł	╀	13 88	╀	ŀ	+	┞	H		20 V .	21 16	+	23 G	24 Y	5 -	27 W	28 B		30 SHIELD -	31 6	32 р	33	35 W		37 P	. 8	3 0	ł	
Γ	Connector No. D5	Connector Name	. T	Connector Type TH16FW-NH	ď.	7 B		8	1	181			Terminal Color Of		~	2 v	3 W	4 B	F	ł	╀		W/8 6	ł		Connector No. D17	Company of Many Control Control of Account o		Connector Type SAZ06FW		到	((1 2))	3 4		9)	Terminal Color Of Cianal Manua (Canadiana)	No. Wire Specification	1 6	2 8 -	3 BR	F	+					
	,		GR -		. 91			B/W				λ.	BR -			GR	. 9	. 91					*		,	,	. 0	BR .	- 1			GR -					,	- 9	. 91	BR -	,		. a	. Wa		,	B/W	
	+	7	+	4	4	+	+	+	+	4		17	L	┝	Ł	H	22	╀	╀	╀	26	ł	╀	29	╁	╀	H	33	34	Н	+	+	88 8	╀	┝	L		H	45	L	╀	48	49	+	t	╀	t	
						WIRE TO WIRE	0.000	NHIUPW-CSIU		<u></u>	6 5 4 3 2 1	_ _ _ _	13 12 14 10 0	20 19 12 11 9 8 7	18 17 16 15 14		3	Signal Name [Specification]							,							D1	WIRE TO WIRE	TH40FW-CS15			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	10	45 42 44 44 44 44 45 45 45 45 45 45	_				Signal Name [Specification]				

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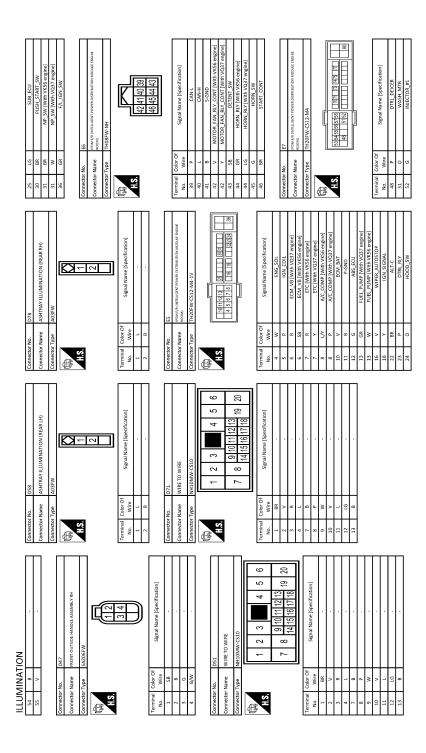
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M1	Г		NS06FW-M2		[34	4	8A 6A 5A 4A]		Of Signal Name (Snecification)											M2	Г	FUSE BLUCK (J/B)	NS10FW-CS				1 90 94	98 88 78 68 58				Ot Signal Name [Specification]						- [With VQ37 engine]	- [With VK56 engine]							
Connector No.	amely auto	Connector Name	Connector Type	١,	_		72	5					0	Wire	œ	Μ	>	>	╀	>	╀	-		Connector No.		Connector Name	Connector Type	ŀ	_	,	5						>	+	\dashv	\dashv	\dashv	W	>	>	<u> </u>	+	$\frac{1}{2}$			
Connec	Conne	Connec	Connec		Œ	季	Y						Terminal	No.	14	2A	3A	44	Ϋ́	Ϋ́	88			Connec	į	Conne	Connec	(ß	ŧ	5				Ĺ	Ierminal	ģ	18	38	48	SB	6B	99	78	80	8	200			
													- 1		9			ı			1	19	1							ΙI	l. I	ا ـ ا	٠.,	- 1				- 1	- 1	- 1	- 1									
9	0	97	۳	ω	3	3	υ :	>	B	ω	٠	ď	SB	IJ	SHIELD	Λ	>	ď	U	^	60	SHIELD	0	SB	>	88	GR	>	٨	_	^	BR	P1	≥	>	-	2	æ	≥	æ	>	>	>							
48 6	49 0	┝	╀	╀	+	+	+	4	_	\dashv	4 59	Н	\dashv	9 89		70 W	71 W	72 R	╀	╀	75	t	t	╀	80 ^	┞	H	84 4	A 58	1 98	87 v	88 BF	\dashv	+	+	+	+	+	\dashv	+	y 86		100							
H	H	20	╀	55	09	000	61	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	63	64	M M M	Н	Signal Name (Specification)	89		H	L	L	╀	╀	╀	t	t	╀	H	┞	H	. 84 Y	λ 88	1 98 .		Н	\dashv	+	+	76	- 93	+	\dashv	+	λ 86		, 100 v						,	
E106 48	WIDE TO WIDE	WIRE 10 WIRE	TH80FW-CS16-TM4 54	- 55	09	000	20 7 SOLD MINISTER AND MINISTER	23 20 20 20 20 20 20 20 20 20 20 20 20 20	S	64	M M M	99	Color Of Signal Name (Specification) 67	89	69	70	7.1	72		74	\$2	9/	t	╀	80	82	H					- 88	\dashv	+	. 91	76	- 93	+	- 82	+			۷ 100 ۷	9		- a		 	GR .	
48	WIDE TO WIDE	WIRE IO WIRE	54	55	09		61	23 20 20 20 20 20 20 20 20 20 20 20 20 20	S	64	M M M	99	nal Color Of Signal Name (Specification) 67	89	69			- 72		W 74	7.5	9/		- 78 78		- 85	GR 83		۸		GR 87	- 88	BR - 89	06		. 92	SHIELD 93	- 94	W/L - 95	BR - 97	. 9	- 66		9	╀	+	+	45 L	46 GR .	ł
FR_WIPER_HI Connector No. E106 48	Connector Name WIDE TO WIDE	Connector Name Wirk I U Wirk	TH80FW-CS16-TM4 54			NATA	61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	80 M (SIN 100 M (SIN 100 M) 0 4 M (SIN 100 M) 0 1 M (SIN 100 M) 0 1 M (SIN 100 M) 0 M ((1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		99	Color Of Signal Name (Specification) 67	Wire Wire 5 Promotory 68	1 P 69	2 W	58 . 71	4 16		6 W 74	7.5	92	7.1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BR 78	11 SB	- 82	GR 83	GR	15 v		GR 87	- ×	BR - 89	- a		. 92	SHIELD 93	. 54	W/L - 95	BR - 97	. 9	. 0		9	╀	+	+	45 L .	H	ł
Connector No. E106 48	Connector Name WIDE TO WIDE	TAIL/ILLUMI Connector Name WIRE I U WIRE 50	02_SENS_#1 Connector Type TH80FW-CS16-TM4 54	O2 SENS #2 55	AT ECU	AAT ONE TO SEE THE SEE	SSOFF 61	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	START_IG-E/R 63	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		99 LbB	ER_MOTOR Terminal Color Of Signal Name (Sperification) 67	Wire Wire 5 Promotory 68	1 P - 69		3 SB . 71	FUSE BLUCK (J/B) 4 16	5 0	6 W 74	7.5	92	7.1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 BR 78	11 SB	- 82	GR 83	f class Mass (Canadition) 14 GR	orginal real to a control of the con		. 17 GR . 87	18 v · · · 88	20 BR . 89	21 P - 90	2 1	23 p - 92	27 SHELD 93	. 54	29 W/L 95	BR - 97	. 9	. 0		9	╀	+	+	45 L .	H	ł

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ILLUM	ILLUMINATION										
Connector No.	io. M3	14	-		82	Н		17	BG		
Connector Name	ame ELISE BLOCK (1/8)	15	>		83	Н		18	٦	- [Without	- [Without CAN gateway]
		16	В		84	SB		18	٨	- [With C	- [With CAN gateway]
Connector Type	ype NS12FW-CS	17	GR		85	٨		19	W		
٥		18	۸		98	1		20	7		
E		20	SB		87	>		21	В		
¥		21	BR		88	>		22	91		
Ĉ		22	-		88	97	•	23	Μ		
	120 110 110 90 80 70 80	23	۵		8	BG		24	>		
		27	SHIELD	- 0	91	^		25	g		
		28	>		92	┞		56	L		
		29	SB		93	9		27	SS.		
Terminal	Color Of Simul Name (Specification)	31	98		94	٨		28	۵		
No.	Wire Signal Name [Specification]	32	۵		95	H		59	_		
100	. 91	33	œ		46	SB		30	SHIELD	q	
110	. 91	34	98		86	œ		32	_		
12C		36	>		66	L		33	۵		
29	~	37	9		100	_		36	98		
70		41	BR					37	es.		
8C		44	BR					41	SB		
96		45	>		Connec	Connector No.	M7	45	>		
		46	BG				0	43	1		
		47	>		COLLIE	all Name	WINE IO WINE	44	8		
Connector No.	lo. M6	48	g		Connec	Connector Type	TH80MW-CS16-TM4	47	_		
	Г	49	98					48	91		
Connector Name	lame WIRE TO WIRE	20	≥		Œ			49	┞		
Connector Type	ype TH80MW-CS16-TM4	54	≥				8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	20	┞		
		55	σ		Ś	<i>-</i>	28 00 00 00 00 00 00 00 00 00 00 00 00 00	51	>		
Ø		09	GR				S S S S S S S S S S S S S S S S S S S	25	۵		
¥	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	61	8				0, 50	53	BG		
<u>6</u>	15 S S S S S S S S S S S S S S S S S S S	62	91					99	SB		
		63	BR					57	٩		
	0.000	64	Ľ	- [With ICC]	Terminal	al Color Of	2 2 2	28	97		
		64	SB	- [Without ICC]	No.	Wire	olgnar Name [opecification]	59	^		
		65	œ	- [With ICC]	-	U		9	GR		
Terminal	Color Of	65	>	- [Without ICC]	2	>-		61	80		
No.	Wire Signal Marine (Specification)	99	۵		4	BR		62	91		
1		- 67	_		2	4		63	BR		
2		89	œ		7	9		9	Μ		
ю	- · · · · · · · · · · · · · · · · · · ·	69	SHIELD	·	80	٨		99	~		
4		20	8		6	9		49	^		
S	, ,	7.1	3		10	>		89	91		
9	. · ·	72	æ		11	_	- [With heated seat]	69	SB		
7		73	9		11	>	- [With climate controlled seat]	70	>		
00		74	>		12	8	- [With heated seat]	7.5	_		
6	Α.	75	8		12	Ь	- [With climate controlled seat]	73	Ь		
10	. · ·	92	SHIELD	·	13	BR		74	1		
11		1.1	8		14	GR		75	d		
12	۸ .	78	>		15	Н		76	9		
13	. PI	80	9		16	^		77	٨		

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Connector No.	П	M24	Connector No.	П	M26	Connector No.	П	M27	320 W -	
Connecto	Connector Name	PCB HARNESS	Connector Name		PCB HARNESS	Connector Name		PCB HARNESS		
Connector Type	r Type	TH40FW-NH	Connector Type		TH40FW-NH	Connector Type	П	TH40FB-NH	Connector No. M30	
Œ	_		Œ			Œ				
ĦS.			H.S.			H.S.			Connector Type TH40FW-NH	
		2		_	מסן מסף למון בחון חוף למון למון למון למון למון מסף מסף מסף מסף מסף מסף מחון מחון מסף ממון מסן ממון מסן מסף מסן		21	ו בער בנה מנו מני	.S.	107 207 (10 PD 50)
Terminal	_	f Simpl Name (Snarification)	Terminal	Color Of	Simpal Name (Specification)	Terminal Color Of	Color Of	Signal Name (Specification)	144 KK (KK (KK KK) KK) KK (KK KK) KK (KK KK) KK (KK) KK	125 (25) (25) (25)
No.	Wire		No.	Wire	Transport of the state of the s	N	Wire	Tropportunite annual purportunite annual purpo		
161	98 sa		241	-		281	0 8		Taeminal Calor Of	
164	3 >		243		- [With ICC]	283	3 2		No. Wire Signal Name [Specification]	- F
165	>		243	>	- [Without ICC]	284	. BG		╁	
166	~		244	_	- [With ICC]	286	*		403 R	
167	97		244	SB	- [Without ICC]	287	>	1	406 B -	
169	~		245	8		288	M		407 V	
171	98		246	8			CHIELD		408 B -	
172	8		247	В		290	8		409 B	
174	Μ		248	CHIELD			SHIELD		410 B -	
176	1		251	SHIELD		292	8		411 8 .	
177	Ь	•	252	8	•	293	8		413 Y -	
178	٨		253	8		294	8		414 BR -	
179	7		254	В	- [With heated seat]	295	В		416 LG .	
180	10	-	254	Μ	- [With climate controlled seat]	296	GR	-	417 B -	
182	BR	- [With VQ37 engine or with VK56 engine without ICC]	255	8		297	8		Н	
182	æ	- [With VK56 engine with ICC]	258	œ		298	8		420 SHIELD -	
183	9		259	٦		588	٦		422 V -	
184	>		260	BG		300	Μ		427 P	
185	۵		261	۵		301	œ		428 V -	
186	œ		262	۵		302	ď		4	
187	-	- [Without CAN gateway]	267	۵		303	œ	•		
187	>	- [With CAN gateway]	268	>		304	SHIELD		4	
188	-		269	υ :		305	۵.		4	
189	<u>_</u>		270	>		306	>		4	
190	>		271	BR		309	U		4	
191	9		272	_o		310	~	•	4	
192	9		273	œ	,	311	>		438 P	
193	SB		274	œ		312	œ		4	
194	BR		275	>		313	В		440 B	
195	SB		276	8		314	٨			
198	œ		277	9		315	9	-		
199	Ц		278	œ		316	ď			
200	88		279	œ			*			
			280	>	,	318	SHIELD			
						319	>			

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]	ILLUMINATION	NOIN									
Connec	Connector No.	M33	Connector No.	or No.	M36	Con	Connector No.	M53	Connector No.	Ш	M54
Connec	Connector Name	COMBINATION SWITCH	Connect	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Sonr	Connector Name	COMBINATION METER	Connector Name	Name	METER CONTROL SWITCH
Connec	Connector Type	TH16FW-NH	Connector Type	or Type	TK08FGY-1V	Š	Connector Type	TH40FW-NH	Connector Type	П	TH12MW-NH
€	vá.	1 2 5 6 7 8 9 10111121314	₽ H.S.		24 ES 28 ES	Œ T	H.S.		₽ H.S.		1 2 3 4 5 6 910 1112
Permin. No.	erminal Color Of No. Wire	of Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terr	Ferminal Color Of No. Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
-	>	FR WASHER (-)	24	۵	•	Ц	1 W	BATTERY POWER SUPPLY	-	SB	
2 2	- SB	OUTPUT 4	25	SB &		1	2 BG	VEHICLE SPEED SIGNAL (2-B11 SE)	3 2	œ @	
ه ا	9	GND	312	, -	,	ľ	~	VEHICLE SPEED SIGNAL (8-PULSE)	4	<u> </u>	,
7	H	INPUT3	32	>			9 2	ILLUMINATION CONTROL SIGNAL	ı,	W	
00	98	0	33	В			9 9	METER CONTROL SWITCH GROUND	9	9	
6		INPUT 2	34	97			2 SB	ENTER SWITCH SIGNAL	6	BG	
2	4		_				+	SELECT SWITCH SIGNAL	10	es es	
11	51						\dashv	ILLUMINATION CONTROL SWITCH SIGNAL (+)	11	SJ.	
17	+	0	Connector No.	or No.	M50	_	10 GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)	12	_	
13	+	INPUTS	Connect	Connector Name	PUSH-BUTTON IGNITION SWITCH	1	+	TRIP RESET SWITCH SIGNAL			
7	9	00110112]			1	17 B	GROUND		ſ	
			Connector lype	or lype	TKOSFBR	<u> </u>	15 P	CAN-H CAN-L	Connector No.	Τ	M72
nnec	Connector No.	M35	13			Ľ	16 R	AIR BAG SIGNAL	Connector Name		MULIIFUNCIION SWIICH
nnec	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Ě		1		17 6	LED HEADLAMP (RH) WARNING SIGNAL	Connector Type	Type	TH16FW-NH
				-	0 0 0		+	LED HEADLAMP (LH) WARNING SIGNAL	Q.		
	adki ion	INDOFT-EA-1V	7		4 5 6 7 8	1	23 B	GNOOD GOOD TO THE	雪		<u> </u>
13	_						ŀ	ALTERNATOR SIGNAL	HS.		31/1/2
ŧ	,	<u> </u>					26 V	PARKING BRAKE SWITCH SIGNAL			0
1	a	23	Terminal	0	Signal Name (Specification)		27 V	BRAKE FLUID LEVEL SWITCH SIGNAL			1 3 5 9 15
		28 29 30	No.	Wire		<u>`</u>	28 6	SECURITY SIGNAL			
		ì	1			1	4	WASHER LEVEL SWITCH SIGNAL		Ī	
			2	ا ۵		<u>"T</u>	+	PADDLE SHIFTER SHIFT DOWN SIGNAL	le (Color Of	Signal Name [Specification]
1				œ		<u>"</u>	_	PADDLE SHIFTER SHIFT UP SIGNAL	No.	Wire	
ermin	Te	Of Signal Name [Specification]	4	BR			+	FUEL LEVEL SENSOR SIGNAL	-		GND
Š	Wire		S	eg B	,	"]	35 W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)	m	>	ACC
23	~		9	>			+	PASSENGER SEAT BELT WARNING SIGNAL	4	~	III
28	>		_	>		***	37 6	NON-MANUAL MODE SIGNAL	2	В	ILL CONT
59	_			Α			38 ^	MANUAL MODE SHIFT DOWN SIGNAL	9	SB	AV COMM (H)
8	>		_			"]	+	MANUAL MODE SHIFT UP SIGNAL	00	9	AV COMM (L)
						4	40 W	MANUAL MODE SIGNAL	0	BR	SW GND
									14	SB	DISK EJECT SIGNAL

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Connector No. M94	Connector Name OPTICAL SENSOR	Connector Type TK03FW	Hs.	Terminal Color Of Signal Name (Specification) Wire Y POW/R 2 W O/W/R 3 B GND	- 1 1	Connector Type TH40FW-NH	H.S. H.S. S. H.S. S.	Terminal Color Of	No. Wire Signal Name [Specification]	3 B .	7 L	. B B	╀	12 SB .	+	+	H	22 BG -	+
Terminal Color Of	No. Wire Signal Name [Specification]	2 R	Connector No. MR2 Connector Name WHR TO WHR Connector Yape TXQZMBR-P	H.8	Terminal Color Of Signal Name [Specification] No. Wire 1 B	2 R	Connector No. M93 Connector Name GLOVE BOX LAMP Connector Type AQ2FW	HS.	12	Terminal Color Of	No. Wire Signal Name [Specification]	2 B .							
Connector No. M82	Connector Name AV CONTROL UNIT	Connector Type TH24FW-NH	1.5. (58 57 58 59 40) 41 12 43 44 45 46 47 17 58 18 49 50 51 52 (57 58 59 40)	Terminal Color Of Signal Name [Specification] No. Wife Signal Name [Specification] Signal Name Specification Signal Name Sig	39 T COMMIN (1)357-X-CUN (1) 40 R RGBAREA (VS) SIGNAL 41 SHIELD SHIELD 42 W RGGSYNC	R RGB	00 98 88 00	50 B VP 51 BR COMMICONT-DISP) 52 SHIELD SHIELD 57 SHIELD SHIELD	SHIELD		Connector Type TK02FBR	1			2 1				
ILLUMINATION Connector No. M74	Connector Name CLOCK	Connector Type TH04FW-NH	HS. 1234	Terminal Color Of Signal Name [Specification] Nuc. Write Shartery Powder Supply Same Shartery Powder Supply Shartery Powder S	Connector No. M81	e .	234567 9		JC	2 G SOUND SIGNAL FRONT LH (+) 3 L SOUND SIGNAL FRONT LH (-) 4 GR SOUND SIGNAL REAR LH (+)		7 V ACC POWER SUPPLY	BR	12 R SOUND SIGNAL FRONT RH (-)	>		1	19 Y BATTERY POWER SUPPLY	9

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30 R		4	×		52	\dashv		86	>	
31 BR		2	_		56	^		87	æ	
32 1		9	8		27	В		88	٨	
33 P		7	BR		28	>		89	BR	
ł		œ	α		29	٩		G	-	
+		,	: 4		2	+		8 8	, ,	
4		2	٥		30	+		16	-	
36 LG		10	>		31	g		93	g	- [With heated seat]
37 L		11	BR		32	_		93	>	- [With climate controlled seat]
		12	9		40	SHIELD		94	>	
		13	_		41	æ		96	Α	
Connector No.	M106	20	>		42	>		97	>	
		21	œ		45	88		86	HB.	
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Connector Type	NS08MW-CS	73	ŀ		46	╀	- [With climate controlled seat]	100	╀	
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£					47	╀	- [With heated seat]			
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	HAZARD SW		DR DOOR UNLK SENSOR	T	COMBI SW COLFOL #		LG COMBI SW OUTPUT 1	R P POSITION				Connector No. M121 56 R	57	BCINI (BODY CON INCL MODOLE)	88	\Box		44 45 46 47 48 49	53	99	8 29	Н	F Signal Name [Specification]	0/	Ĺ	TR LID OP CANCEL SW	PASSENGER DOOR SW		REARLH DOOR SW		TR LID OPEN REQ SW	TRUNK LID OPEN REQUEST	BR RR DOOR UNLK OUTPUT			Terminal Colo	No. Wi	┝	72	73	22

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Fig. 2 Fig. 3 F	Connector N		WIRE TO WIRE	Connecto		TRIPLE SWITCH	Connec	tor Name	TWINSWITCH	1		
Control Cont	Connector T	Type	TH40MW-NH	Connecto	rType	TH12FB-NH	Connec	tor Type	TH12FGY-NH			
Signal Name Specification Sign	图 H.S.		111	E H.S.		T <u> </u>	E E		10	Connector No. Connector Type		
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Connector No.	MINA or No.	٦П	Connector No.			Connector No.	M204		Connector No.	M206	П
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27	æ	- [With heated seat]	7 B			No. Wire			No. Wire		
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Fig. 80 20 20 20 20 20 20 20	Connector Type	TH32FW-NH	Connector Type	M03FW-LC	Connector Type	TK08FGY	Connector Type	TH24MW-NH
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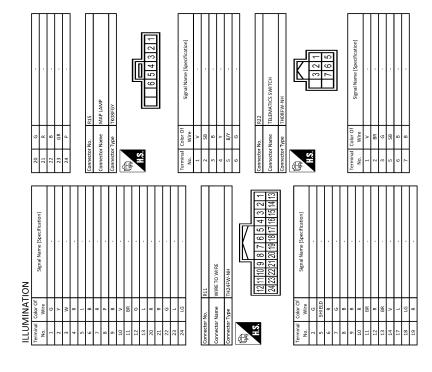
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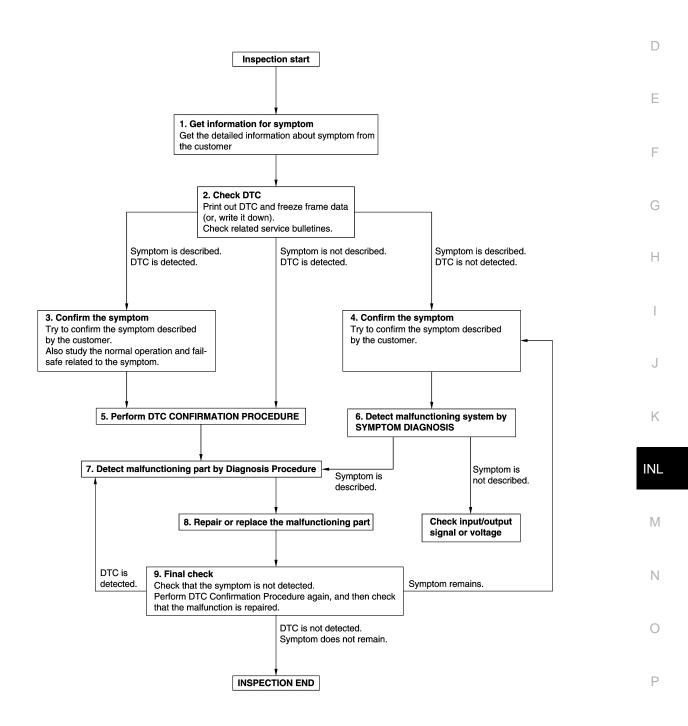
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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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 CONFIR-MATION 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 CON-SULT.

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.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
- 3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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Revision: April 2016 INL-145 2016 Q70

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description INFOID.000000012356134

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

(P)CONSULT ACTIVE TEST

- 1. Turn ignition switch ON.
- Turn each interior room lamp ON.
- Rear spot lamp
- Map lamp
- Foot lamp
- Trunk room lamp
- Step lamp
- Outside handle lamp
- Vanity mirror lamp
- 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

(R)CONSULT ACTIVE TEST

- 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.
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- With operating the test item, check voltage between BCM harness connector and ground.

(+)					Voltage (Approx.)
		(–)	Test		
Connector	Terminal				(11 -)
M122	56 Ground	Ground	BATTERY SAVER	Off	0 V
IVITZZ		DATTERT SAVER	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]

$\overline{2.}$ 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	Each interior room lamp		
Connector	Terminal	Connector		Terminal	Continuity
	Rear spot lamp	R27			
		Map lamp	R15		
		Foot lamp (driver side)	M186		
		Foot lamp (passenger side)	M114		
		Trunk room lamp	B47		
		Step lamp (driver side)	D12	1 Existed	
M122	56	Step lamp (passenger side)	D42		Existed
		Step lamp (Rear LH)	D57		
		Step lamp (Rear RH)	D77		
		Front outside handle assembly LH	D17		
		Front outside handle assembly RH	D47	3	
		Vanity mirror lamp (driver side)	R12		
		Vanity mirror lamp (passenger side)	R13	2	

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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M122	56		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair or replace harnesses.

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INTERIOR ROOM LAMP CONTROL CIRCUIT

[LONG WHEEL BASE MODELS]

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:000000012356137

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

${f 1}$.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

PCONSULT 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

PCONSULT ACTIVE TEST

- Turn ignition switch OFF.
- 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.

ВСМ		Te		item	Continuity
Connector	Terminal	Ground	1630	. Item	Continuity
M122 63	62		INT LAMP	On	Existed
	03		INT LAWF	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 <u>BCS-95, "Removal and Installation"</u>.

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- Turn ignition switch OFF.
- 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]

В	CM	Foot lamp		Continuity	
Connector	Terminal	Connector		Terminal	Continuity
M122	M122 63	Driver side	M186	2	Existed
IVIIZZ		Passenger side	M114	2	Existed

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

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

Check continuity between rear spot lamp harness connector and map lamp harness connector.

Rear spot lamp		Мар	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
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.

${f 3.}$ 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.
- Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M122	63		Not existed	

Is the inspection result normal?

>> Replace BCM. Refer to BCS-95, "Removal and Installation". YES

NO >> Repair or replace harnesses.

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INL-149 Revision: April 2016 2016 Q70

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TRUNK ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

TRUNK ROOM LAMP CIRCUIT

Description INFOID:000000012356140

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.
- Check continuity between BCM harness connector and ground.

BCM			Con		Continuity
Connector	Terminal	Ground			Continuity
M121	M121 49	Glound	Trunk lid	Open	Existed
IVITZT			Trutik iiu	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 <u>BCS-95</u>, "Removal and Installation".

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

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

В	ВСМ		Trunk room lamp		
Connector	Terminal	Connector	Terminal	Continuity	
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

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

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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

Description INFOID:0000000012356142

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

Component Function Check

INFOID:0000000012356143

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NOTE:

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

- Interior room lamp power supply
- Step lamp bulb

1. CHECK STEP LAMP OPERATION

(P)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.
- With operating the test item, check continuity between BCM harness connector and ground.

ВСМ		Test i		itom	Continuity
Connector	Terminal	Ground	1631	item	Continuity
M122	M422 62		STEP LAMP TEST	On	Existed
IVI I ZZ	M122 62		SIEF LAWIP IEST	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 <u>BCS-95, "Removal and Installation"</u>.

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.

всм		Step lamp			Continuity
Connector	Terminal	Conn	Connector		Continuity
		Driver side	D12	0	Final
M4.00		Passenger side	D42		
M122 62	Rear LH	D57	2	Existed	
	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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
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

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

Diagnosis Procedure

INFOID:0000000012356146

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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			Condition		Continuity	
Connector	Terminal	Ground		uition	Continuity	
M123 72		Ground	Any door	Open	Existed	
W123	M123 72		Arry door	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 <u>BCS-95</u>, "Removal and <u>Installation"</u>.

2.CHECK OUTSIDE HANDLE LAMP OPEN CIRCUIT

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

В	СМ	Outside Handle lamp		Outside Handle lamp		Continuity
Connector	Terminal	Connector		Terminal	Continuity	
M123	72	LH	D17	4	Existed	
IVI 123	12	RH	D47	4	EXISTEC	

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.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-95, "Removal and Installation".

NO >> Repair or replace harnesses.

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Revision: April 2016 INL-153 2016 Q70

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[LONG WHEEL BASE MODELS]

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:000000012356147

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.
- 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

${f 1.}$ CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

©CONSULT ACTIVE TEST

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

(-	+)			Villa	
Push-button ignition switch		(–)	Condition		Voltage (Approx.)
Connector	Terminal			(44)	
M50	3	Ground ENGINE SW ILLUMI		ON	12 V
IVISO	3			OFF	0 V

Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 2.

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

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

ВСМ		Push-button ignition switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
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]

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	90		Not existed

Is the inspection result normal?

>> Replace BCM. Refer to BCS-95, "Removal and Installation". YES

NO >> Repair or replace harnesses.

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

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

(+) BCM		(-)	Voltage (Approx.)
Connector	Terminal		(47)
M123	92	Ground	0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to BCS-95, "Removal and Installation".

${f 5.}$ CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

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

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

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

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

Is the inspection result normal?

>> Replace push-button ignition switch. YES

NO >> Repair or replace harnesses. INL

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INL-155 Revision: April 2016 2016 Q70

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[LONG WHEEL BASE MODELS]

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

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 Rear spot 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-146.
 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-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.
 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 <u>DLK-87</u> . Outside handle lamp circuit Refer to <u>INL-153</u> .
 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. 	Harness between BCM and trunk closure assembly Harness between BCM and trunk room lamp BCM	Trunk lid open signal circuit Refer to <u>DLK-101</u> . Trunk room lamp circuit Refer to <u>INL-150</u> .
 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-151.
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-154.
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to <u>BCS-95</u> .

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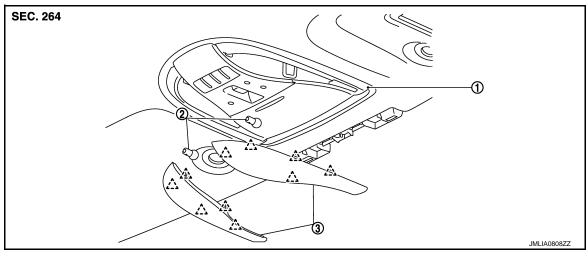
INFOID:0000000012356151

INFOID:0000000012356152

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View



Map lamp assembly

2 Bulb 3 Lens

<u>/</u>`∴ : Pawl

Removal and Installation

REMOVAL

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".
- Remove center pillar upper garnish (LH and RH). Refer to INT-46, "CENTER PILLAR UPPER GARNISH: 3. Removal and Installation".
- 4. Remove partially front body side welt (headlining side).
- Remove front pillar garnish. Refer to INT-39, "FRONT PILLAR GARNISH: Removal and Installation". 5.
- Remove lane camera unit 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 holder (LH and RH). Refer to INT-57, "Removal and Installation". 9.
- 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.

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NOTE:

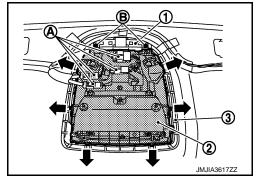
< REMOVAL AND INSTALLATION >

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:0000000012356153

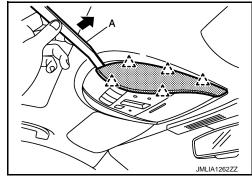
CAUTION:

- 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.

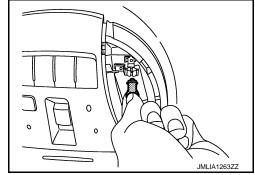
MAP LAMP BULB

 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.



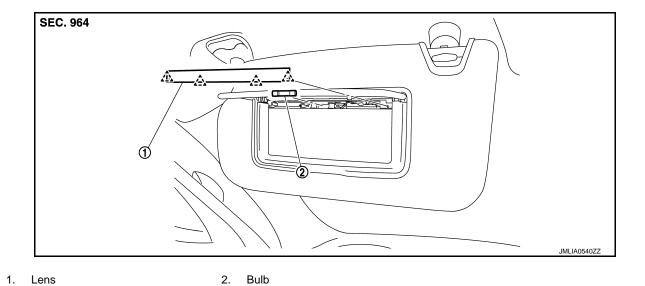


2. Rotate bulb clockwise or counterclockwise by 90° and remove bulb as shown in the figure.



VANITY MIRROR LAMP

Exploded View



Replacement

CAUTION:

/へ: Pawl

- 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.

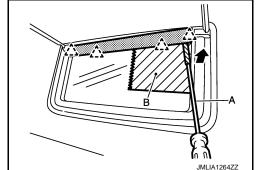
VANITY MIRROR LAMP BULB

 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.

<u>^</u> \	:	Pawl
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2. Remove bulb.

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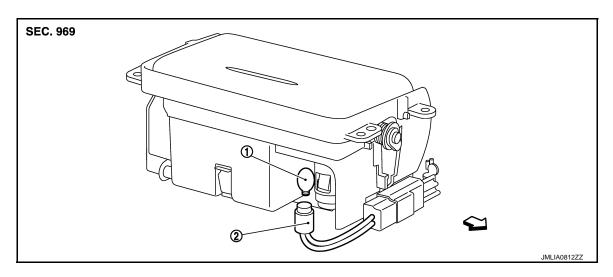
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[LONG WHEEL BASE MODELS]

CIGARETTE LIGHTER ILLUMINATION

Exploded View



1. Bulb

2. Bulb socket

Removal and Installation

INFOID:0000000012356157

- Remove console finisher assembly. Refer to <u>IP-24, "Removal and Installation"</u>. Removal and Installation.
- Remove ashtray assembly. Refer to <u>IP-24, "Removal and Installation"</u>. Disassembly and assembly of center console assembly.

Replacement

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.

CIGRETTE LIGHTER ILLUMINATION BULB

- 1. Remove console finisher assembly, and then remove ashtray assembly. Refer to <u>IP-24, "Removal and Installation"</u>.
- 2. Rotate bulb socket counterclockwise to unlock it.
- Remove bulb.

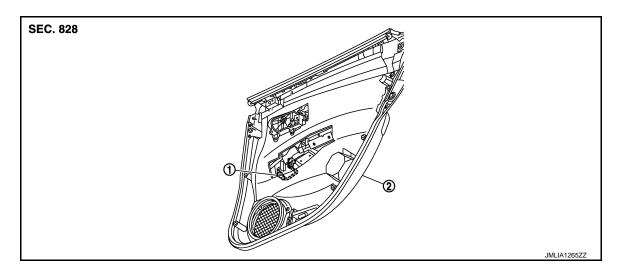
REAR DOOR ASHTRAY ILLUMINATION

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

REAR DOOR ASHTRAY ILLUMINATION

Exploded View



1. Ashtray lamp assembly

Rear door finisher

Removal and Installation

Refer to INT-33, "Exploded View" for rear door finisher installation or removal.

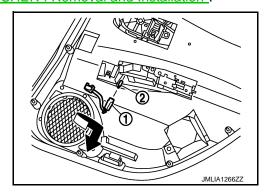
Replacement

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".
- Rotate bulb socket (1) counterclockwise to unlock it.
- 3. Remove bulb (2) from bulb socket.



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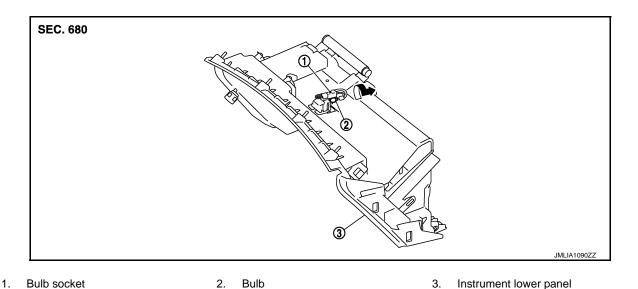
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GLOVE BOX LAMP

Exploded View



Removal and Installation

INFOID:0000000012356163

(Passenger side)

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".
- Remove glove box assembly, and then remove instrument lower panel RH. Refer to <u>IP-13</u>, "Removal and <u>Installation</u>".
- 3. Rotate bulb socket counterclockwise to unlock it.
- Remove bulb.

[LONG WHEEL BASE MODELS]

FOOT LAMP DRIVER SIDE

DRIVER SIDE: Exploded View

INFOID:0000000012356165

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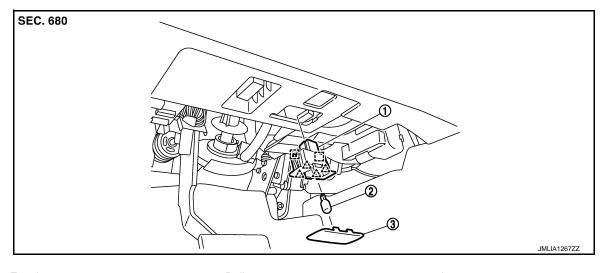
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. Foot lamp case 2. Bulb 3. Lens

: Pawl : Metal clip

DRIVER SIDE: Removal and Installation

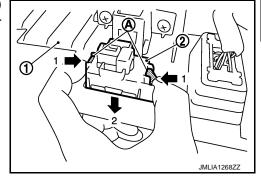
INFOID:0000000012356166

CAUTION:

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

REMOVAL

- Remove instrument lower panel LH. Refer to <u>IP-13</u>, "Removal and Installation"
- 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.

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 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

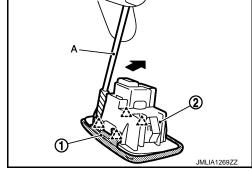
- Remove foot lamp assembly. Refer to <u>INL-163, "DRIVER SIDE: Removal and Installation"</u>.
- 2. Remove lens (1).
 - Insert a remover tool (A) into the gap between lens and foot lamp case (2).

CAUTION:

Use a remover tool wrapped in tape.

Disengage fixing pawls, and then remove lens.



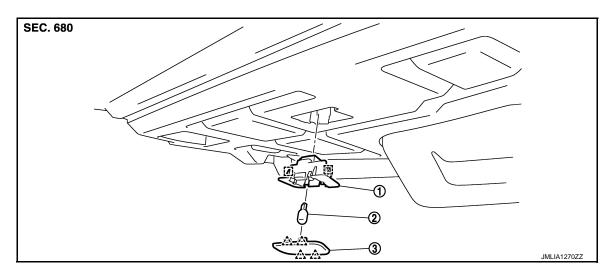


Remove bulb.

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

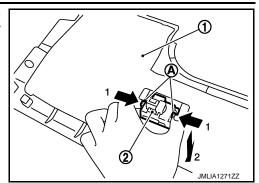
- Remove instrument lower cover. Refer to <u>IP-13, "Removal and Installation"</u>
- Disconnect foot lamp harness connector.

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

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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

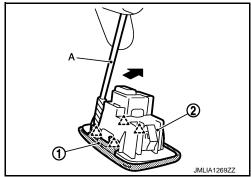
- Remove foot lamp assembly. Refer to <u>INL-164, "PASSENGER SIDE: Removal and Installation"</u>.
- 2. Remove lens (1).
 - Insert a remover tool (A) into the gap between lens and foot lamp case (2).

CAUTION:

Use a remover tool wrapped in tape.

Disengage fixing pawls, and then remove lens.

_____: Pawl



3. Remove bulb.

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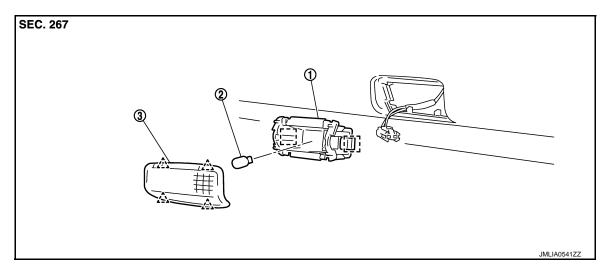
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STEP LAMP

Exploded View



1. Step lamp case

2. Bulb

3. Lens

: Pawl : Metal clip

Removal and Installation

INFOID:0000000012356172

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.
- Disconnect step lamp harness connector.

INSTALLATION

Install in the reverse order of removal.

Replacement INFOID:0000000012356173

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.

[LONG WHEEL BASE MODELS]

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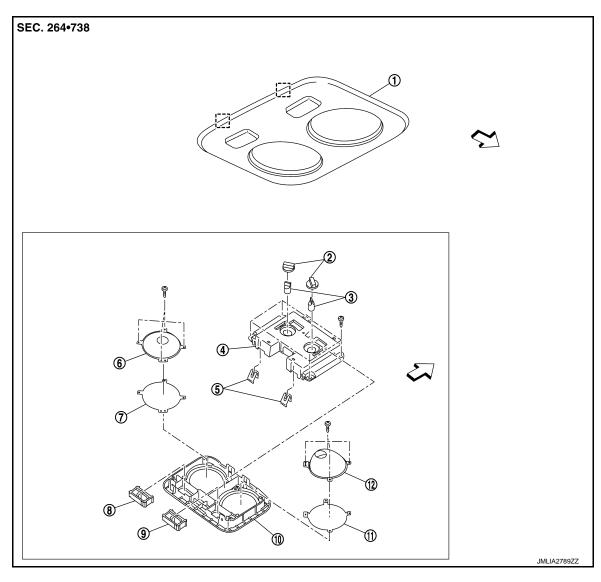
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REAR SPOT LAMP

Exploded View



- 1. Rear spot lamp assembly
- 4. Lamp housing
- 7. Lens LH
- 10. Lamp cover
- : Metal clip
 : Vehicle front

- 2. Bulb base
- Metal clip
- 8. Knob LH
- 11. Lens RH

- 3. Bulb
- 6. Reflector LH
- 9. Knob RH
- 12. Reflector RH

Removal and Installation

CAUTION:

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

REMOVAL

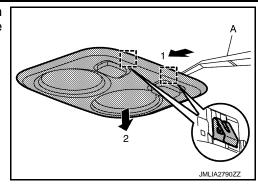
REAR SPOT LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

 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.

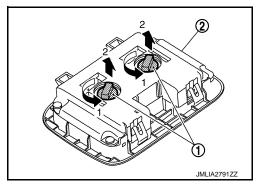
INSTALLATION

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.



Remove bulb from bulb base.

OUTSIDE HANDLE LAMP

< REMOVAL AND INSTALLATION >

[LONG WHEEL BASE MODELS]

OUTSIDE HANDLE LAMP

Exploded View

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

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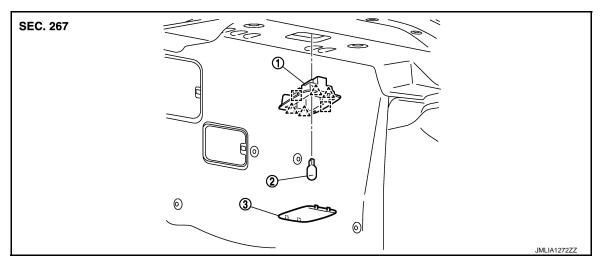
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TRUNK ROOM LAMP

Exploded View



1. Trunk room lamp case

2. Bulb

3. Lens

: Pawl

Removal and Installation

INFOID:0000000012356179

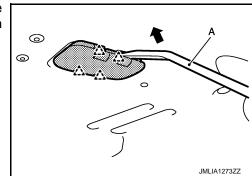
CAUTION:

- 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

 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.





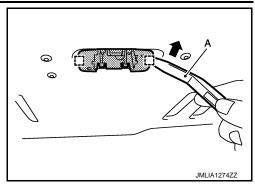
TRUNK ROOM LAMP

< 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

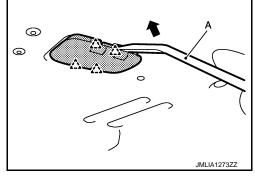
CAUTION:

- 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

 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.





2. Remove bulb.

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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

ltem	Туре	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