SECTION INL
INTERIOR LIGHTING SYSTEM

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PRECAUTION

PRECAUTIONS

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

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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:

- **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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “SRS AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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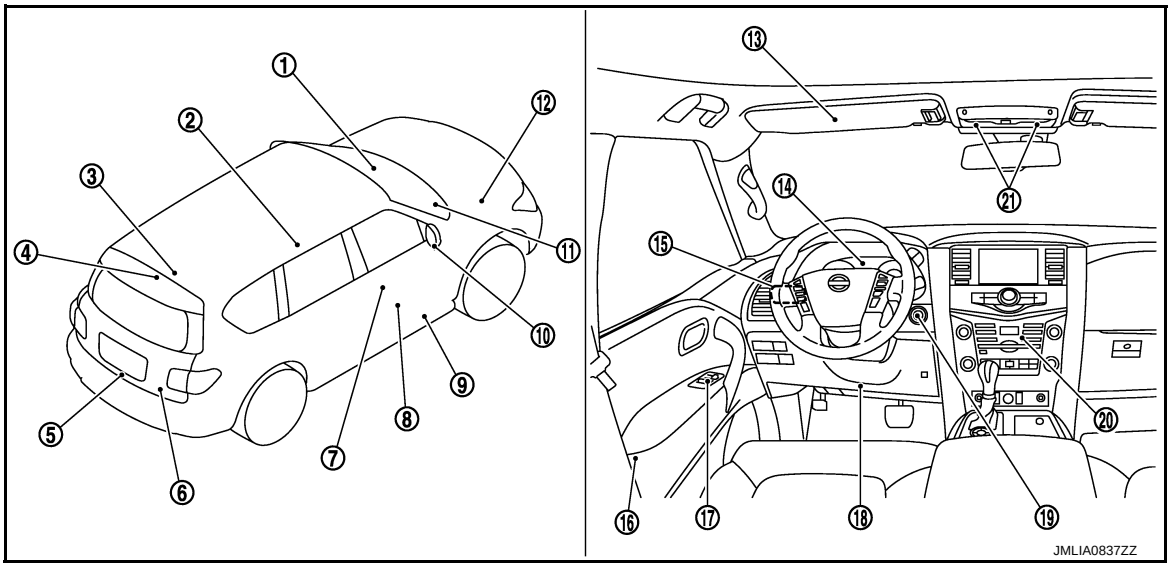

1. BCM
   Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"
2. Personal lamp
3. Luggage room lamp
4. Remote keyless entry receiver
   Refer to DLK-11, "DOOR LOCK SYSTEM : Component Parts Location"
5. Back door lock assembly (back door switch)
6. Automatic back door close switch
7. Door request switch
8. Door switch
9. Step lamp
10. Paddle lamp
11. Optical sensor
12. IPDM E/R
    Refer to PCS-4, "Component Parts Location"
13. Vanity mirror lamp
14. Combination meter
15. Combination switch
16. Front door lock assembly (driver side) (door key cylinder switch, unlock sensor)
17. Door lock and unlock switch
18. Foot lamp
19. Push-button ignition switch
20. AV control unit
    Refer to AV-9, "Component Parts Location"
21. Map lamp

Component Description

INFOID:0000000006216049

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	Refer to DLK-12, "DOOR LOCK SYSTEM : Component Description".
AV control uni	Receives the dimmer signal from BCM via CAN communication.
Optical sensor	Refer to EXL-7, "EXTERIOR LIGHTING SYSTEM : Component Description".
Unlock sensor	Detects door lock condition of driver side door.

Part	Description
Combination switch (Lighting & turn signal switch)	Refer to BCS-7, "COMBINATION SWITCH READING SYSTEM : System Description".
• Door lock and unlock switch • Door request switch • Door key cylinder switch	Inputs the lock/unlock signal to BCM.
• Door switch • Back door switch	Inputs the door switch signal to BCM.

SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

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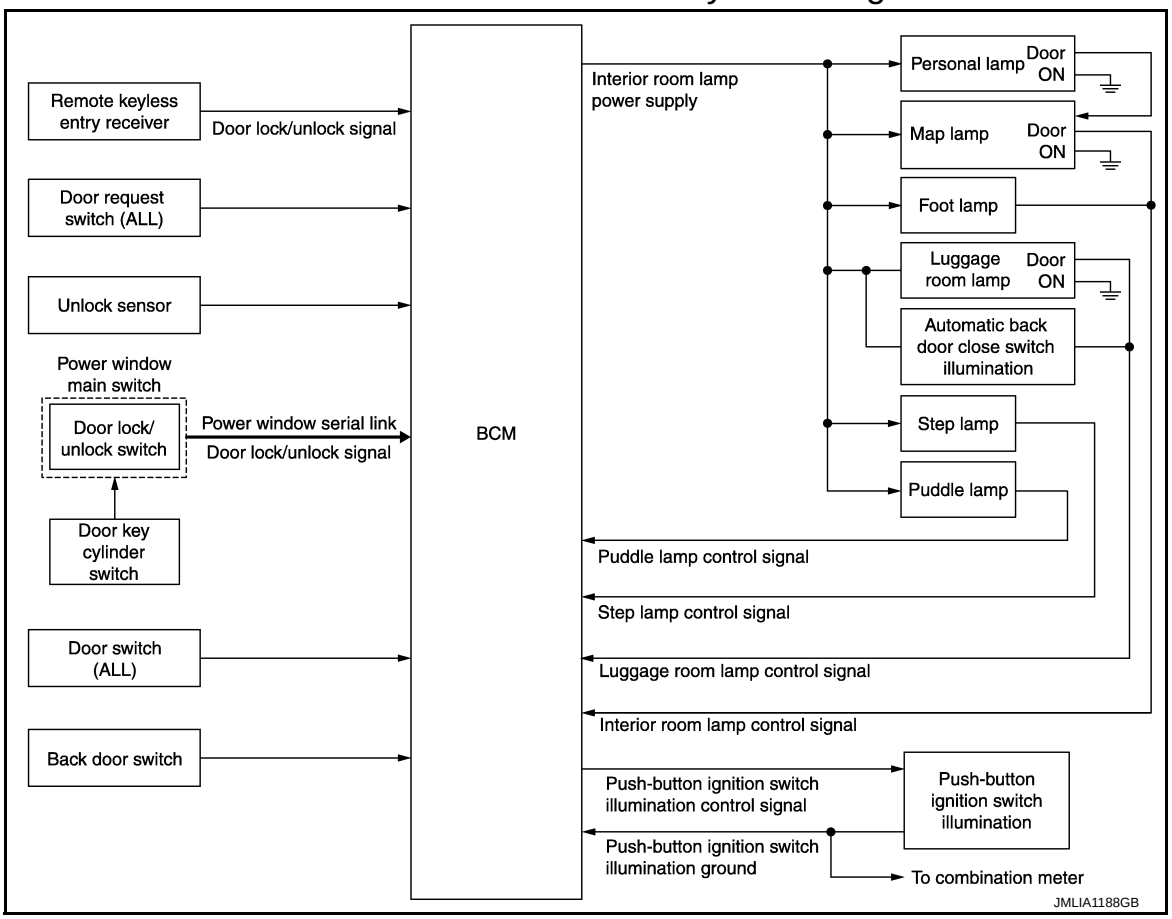


INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

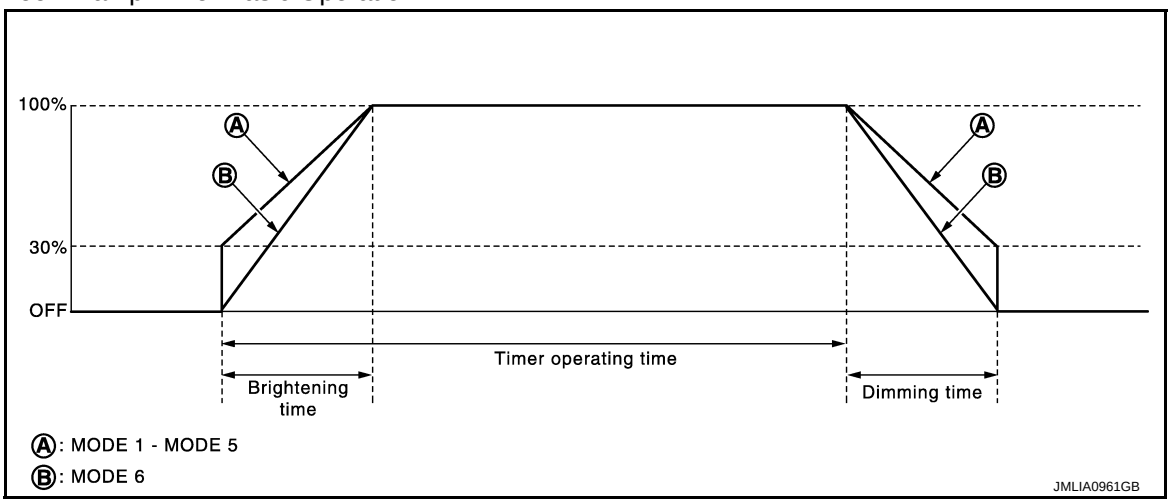
INFOID:0000000006216051

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.
- Luggage room lamp and automatic back door close switch illumination are controlled by luggage room lamp control function of BCM.
- Puddle lamp is controlled by puddle lamp timer control function of BCM.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM and combination meter.
- Interior room lamps and puddle lamp are illuminated by welcome light function of Intelligent Key system. Refer to DLK-26, "WELCOME LIGHT FUNCTION : System Description".

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



NOTE:
A: Sets the interior room lamp gradual brightening and dimming time.
B: Gradually brightens from 0% to 100% and gradually dims from 100% to 0% 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 (except back door)
- 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-III. Refer to INL-14, "INT LAMP : CONSULT-III Function (BCM - INT LAMP)".

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens excepting back door.
- 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 excepting back door.
- Ignition switch is turned ON → OFF.
- Any door unlock signal is detected when all doors close excepting back door with ignition switch OFF.

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

Interior Room Lamp OFF Operation

BCM stops the timer and turns interior room lamp OFF, when any of the following conditions is satisfied.

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

LUGGAGE ROOM LAMP CONTROL

BCM controls the luggage room lamp and automatic back door close switch illumination (ground-side) to turn ON with back door switch ON.

- When luggage room lamp switch is turned to the ON position, luggage room lamp turns ON.
- When luggage room lamp switch is in the DOOR position and back door is opened, luggage room lamp turns ON.
- When back door is opened, automatic back door close switch illumination turn ON.

STEP LAMP CONTROL

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

PUDDLE LAMP TIMER CONTROL

Puddle Lamp Timer Basic Operation

- BCM controls the ground to turn the puddle lamp ON.

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

Puddle Lamp ON Operation

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

- Any door opens excepting back door.
- Any door opens before all doors close excepting back door.
- 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 restarts if new condition is input during the timer operating time.

Puddle Lamp OFF Operation

BCM stops the timer and turns puddle lamp OFF, when any of the following conditions are satisfied.

- The puddle 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.
- BCM provides the push-button ignition switch illumination control signal and the ground to turn the push-button ignition switch illumination ON.
- BCM cuts the ground supply while each illumination (tail lamp) is ON. BCM switches to the ground control according to the meter illumination control function. Refer to MWI-16, "METER ILLUMINATION CONTROL : System Description".

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

Illumination ON Operation

When ignition switch is not OFF or tail lamp turns ON, push-button ignition switch illumination turns ON.

Dimming Operation

When tail lamp turns OFF and ignition switch is turned OFF, push-button ignition switch illumination dims to 50% brightness.

Illumination OFF Operation

Push-button ignition switch illumination turns OFF when ignition switch turns OFF and tail lamp turns from ON to OFF, while push-button ignition switch illumination is in ON status.

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

- 15 seconds after start of heartbeat operation.
- When welcome light function is not operating and any on the following conditions is 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

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Diagram

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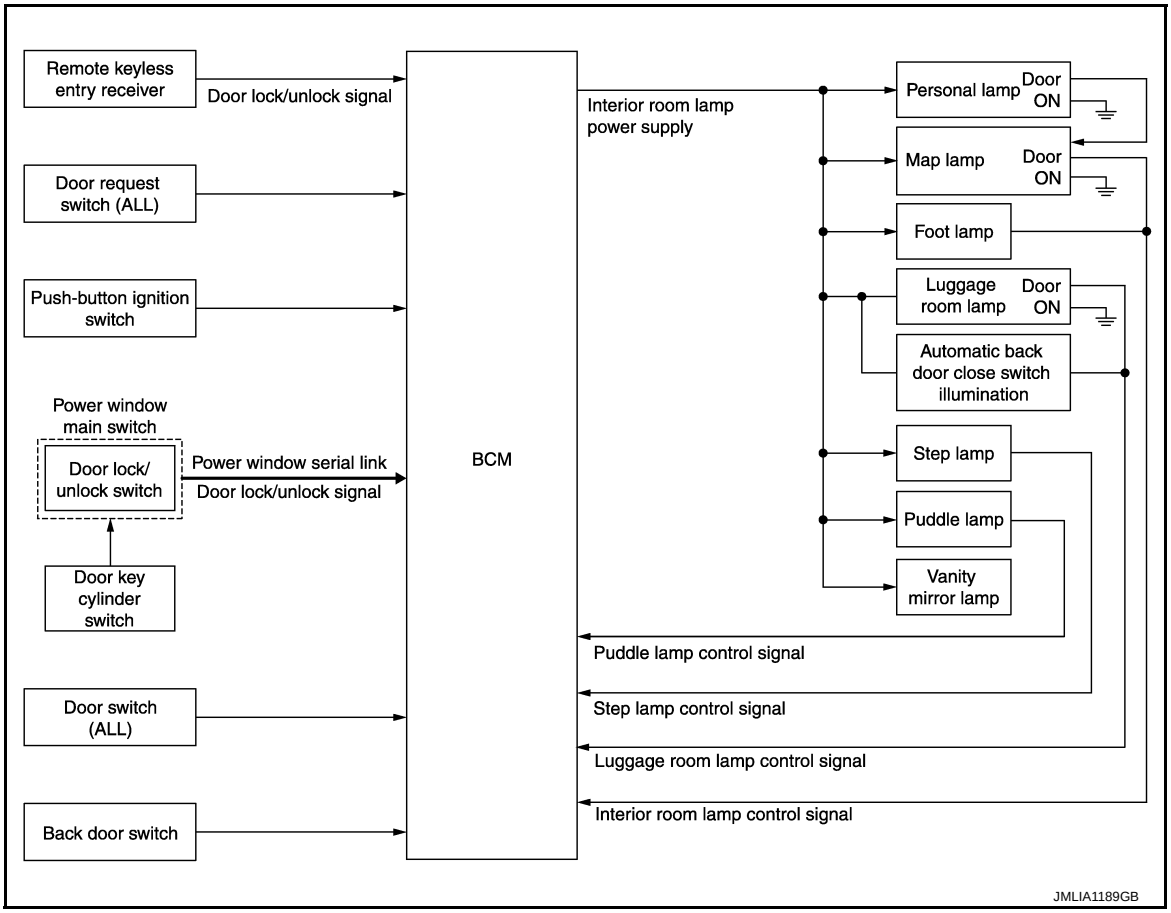

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000006216053

OUTLINE

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

Applicable lamps

- Map lamp
- Personal lamp
- Foot lamp
- Luggage room lamp
- Automatic back door close switch illumination
- Step lamp
- Puddle lamp
- Vanity mirror lamp

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

- When the ignition switch is turned to a 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 changes while operating the timer.
  - Push-button ignition switch status
  - Door switch signal (ALL)
  - 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-III. Refer to INL-15, "BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)".

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

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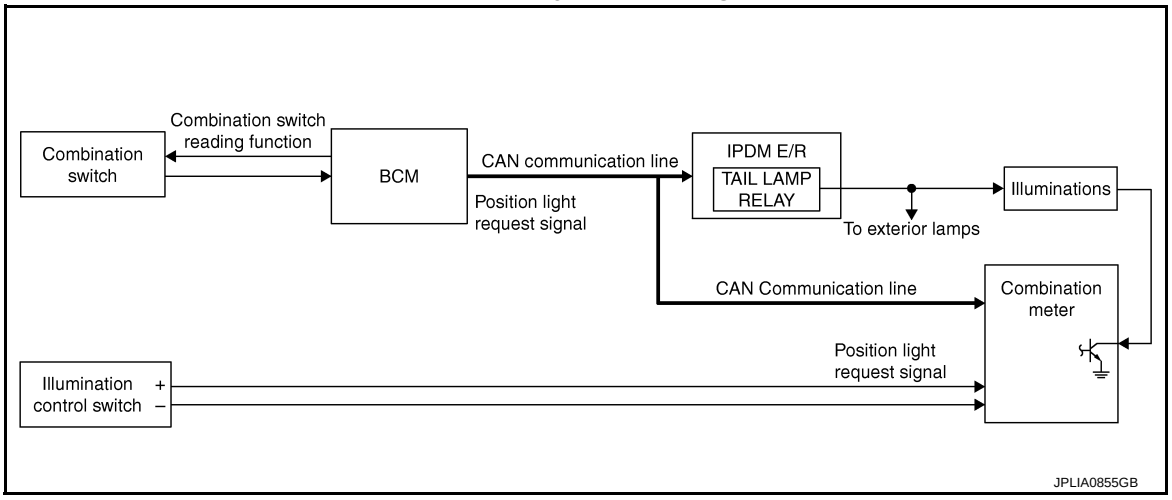

ILLUMINATION CONTROL SYSTEM : System Description

INFOID:0000000006216055

OUTLINE

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

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-16, "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
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON

- 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 each illumination lamp (ground side).

AUTO LIGHT ADJUSTMENT SYSTEM

AUTO LIGHT ADJUSTMENT SYSTEM : System Diagram

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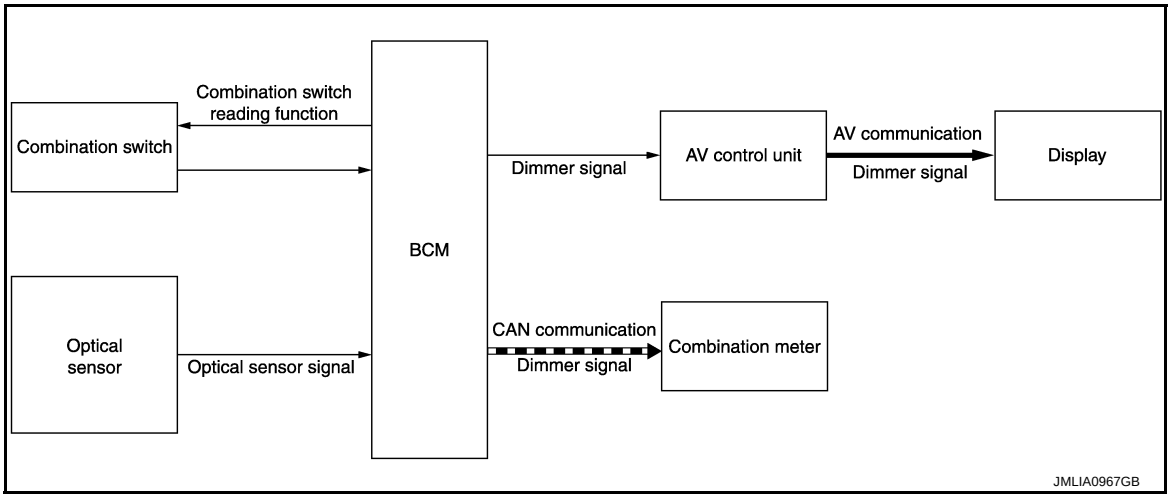

AUTO LIGHT ADJUSTMENT SYSTEM : System Description

INFOID:0000000006216057

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 dimming/brightening 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 dimming/brightening timing, the sensitivity depends on settings. The settings can be changed with CONSULT-III. Refer to EXL-23, "HEADLAMP : CONSULT-III Function (BCM - HEAD LAMP)".

Auto Light Adjustment Timing Table

When the ignition switch is ON, the illumination of combination meter and display switches dimming/brightening in the following condition.

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

BCM switches the illumination of combination meter and display to dimming when outside brightening obtained from the optical sensor signal is 1250 lx or less for 3 seconds or more. And BCM switches the illumination of combination meter and display to brightening when outside brightening from the optical sensor signal is 2500 lx or more for 5 seconds or more.

DIAGNOSIS SYSTEM (BCM)
COMMON ITEM
COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000006368143

APPLICATION ITEM
CONSULT-III 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. Refer to BCS-57, "DTC Index".
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
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.

×: Applicable item

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

*: This item is indicated, but not used.

FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT-III.

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	While turning BCM status from low power consumption mode to normal mode (Power supply position is “LOCK”)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is “OFF”.)
	LOCK>ACC		While turning power supply position from “LOCK” to “ACC”
	ACC>ON		While turning power supply position from “ACC” to “IGN”
	RUN>ACC		While turning power supply position from “RUN” to “ACC” (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from “CRANKING” to “RUN” (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from “RUN“ to “ACC” (Emergency stop operation)
	ACC>OFF		While turning power supply position from “ACC” to “OFF”
	OFF>LOCK		While turning power supply position from “OFF” to “LOCK”
	OFF>ACC		While turning power supply position from “OFF” to “ACC”
	ON>CRANK		While turning power supply position from “IGN” to “CRANKING”
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is “OFF”.) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is “LOCK”.) to low power consumption mode
	LOCK		Power supply position is “LOCK” (Ignition switch OFF with steering is locked.)
	OFF		Power supply position is “OFF” (Ignition switch OFF with steering is unlocked.)
	ACC		Power supply position is “ACC” (Ignition switch ACC)
	ON		Power supply position is “IGN” (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is “RUN” (Ignition switch ON with engine running)
	CRANKING		Power supply position is “CRANKING” (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

INT LAMP

INT LAMP : CONSULT-III Function (BCM - INT LAMP)

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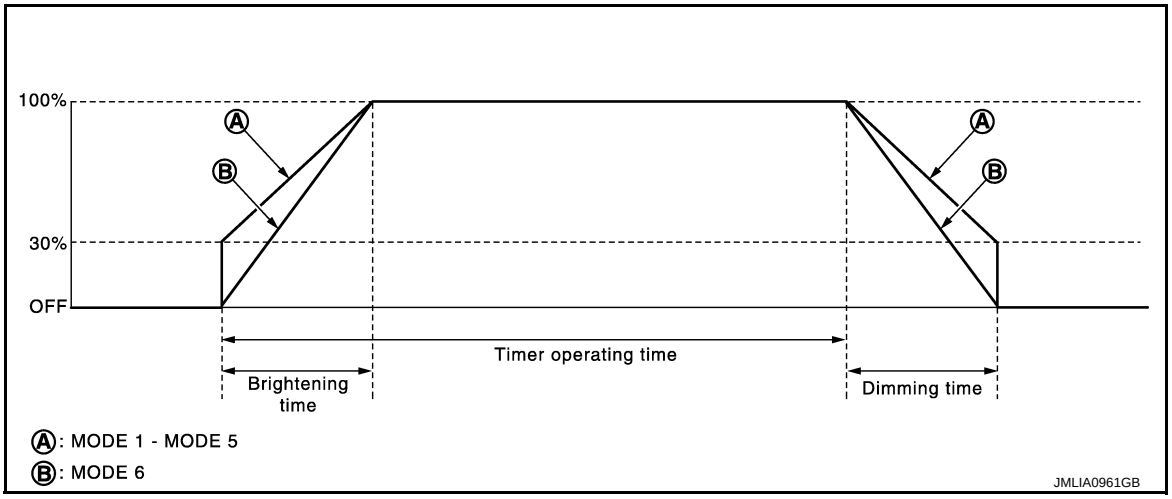
WORK SUPPORT



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

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	**NOTE:** The item is indicated, but not monitored.
REQ SW-RL [On/Off]	

Monitor item [Unit]	Description
PUSH SW [On/Off]	The 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 door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from 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]	The switch status input from back door switch
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 door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
TRNK/HAT MNTR [On/Off]	**NOTE:** The item is indicated, but not monitored.
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

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

BATTERY SAVER

BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)

INFOID:0000000006216060

WORK SUPPORT

Service item	Setting item	Setting	
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating time.
	MODE 2	60 min.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function	
	Off	Without the exterior lamp battery saver function	

*:Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from door request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from door request switch (passenger side)
REQ SW-RR [On/Off]	**NOTE:** The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The 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 door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from 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]	The switch status input from back door switch
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 door key cylinder switch
KEY CYL UN-SW [On/Off]	Unlock switch status received from door key cylinder switch
TRNK/HAT MNTR [On/Off]	**NOTE:** The item is indicated, but not monitored.
RKE-LOCK [On/Off]	Lock signal status received from remote keyless entry receiver
RKE-UNLOCK [On/Off]	Unlock signal status received from remote keyless entry receiver

ACTIVE TEST

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

*: Each lamp switch is in ON position.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000006216061

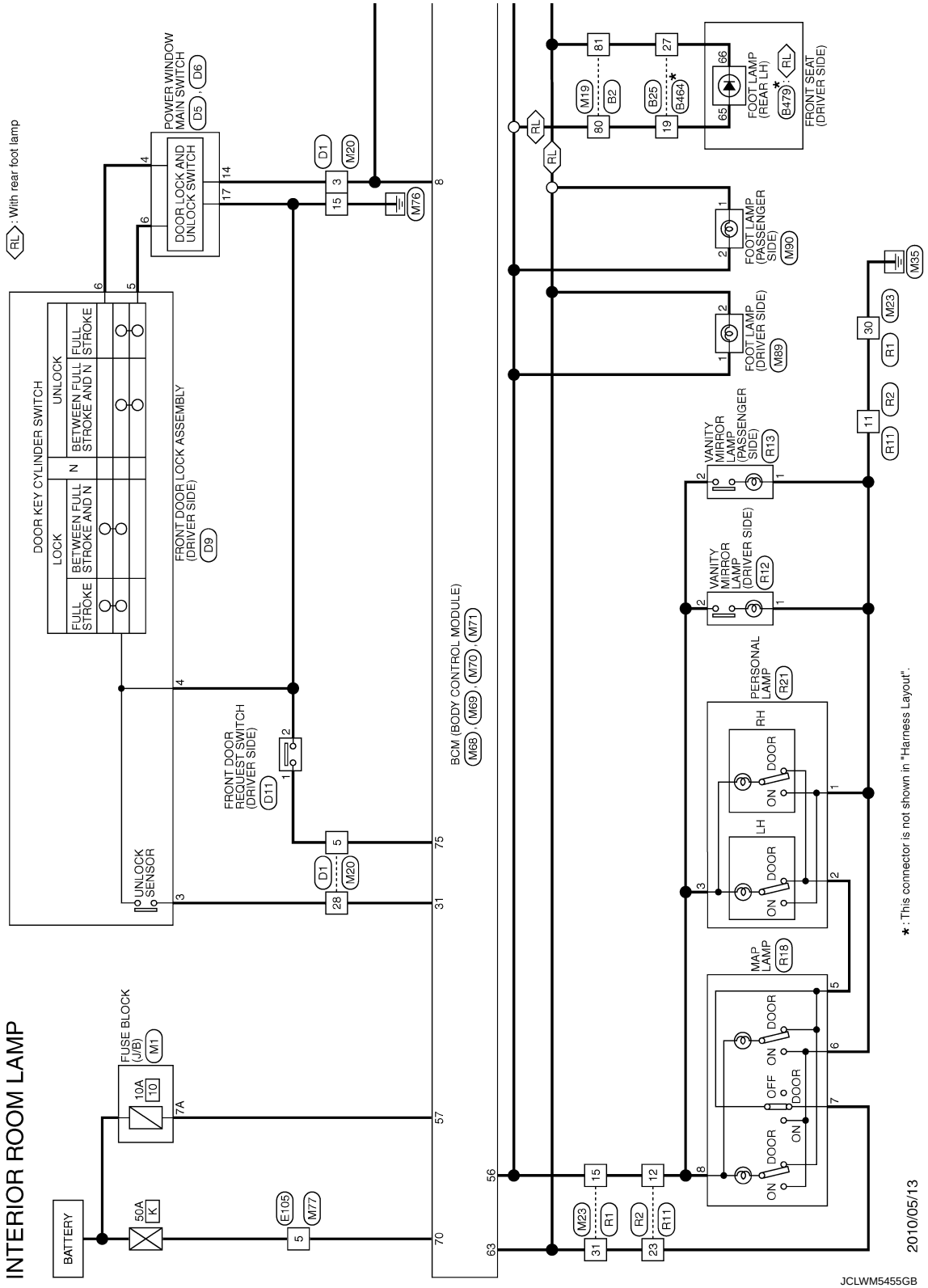
ECU	Reference
BCM	BCS-33, "Reference Value"
	BCS-54, "Fail-safe"
	BCS-56, "DTC Inspection Priority Chart"
	BCS-57, "DTC Index"

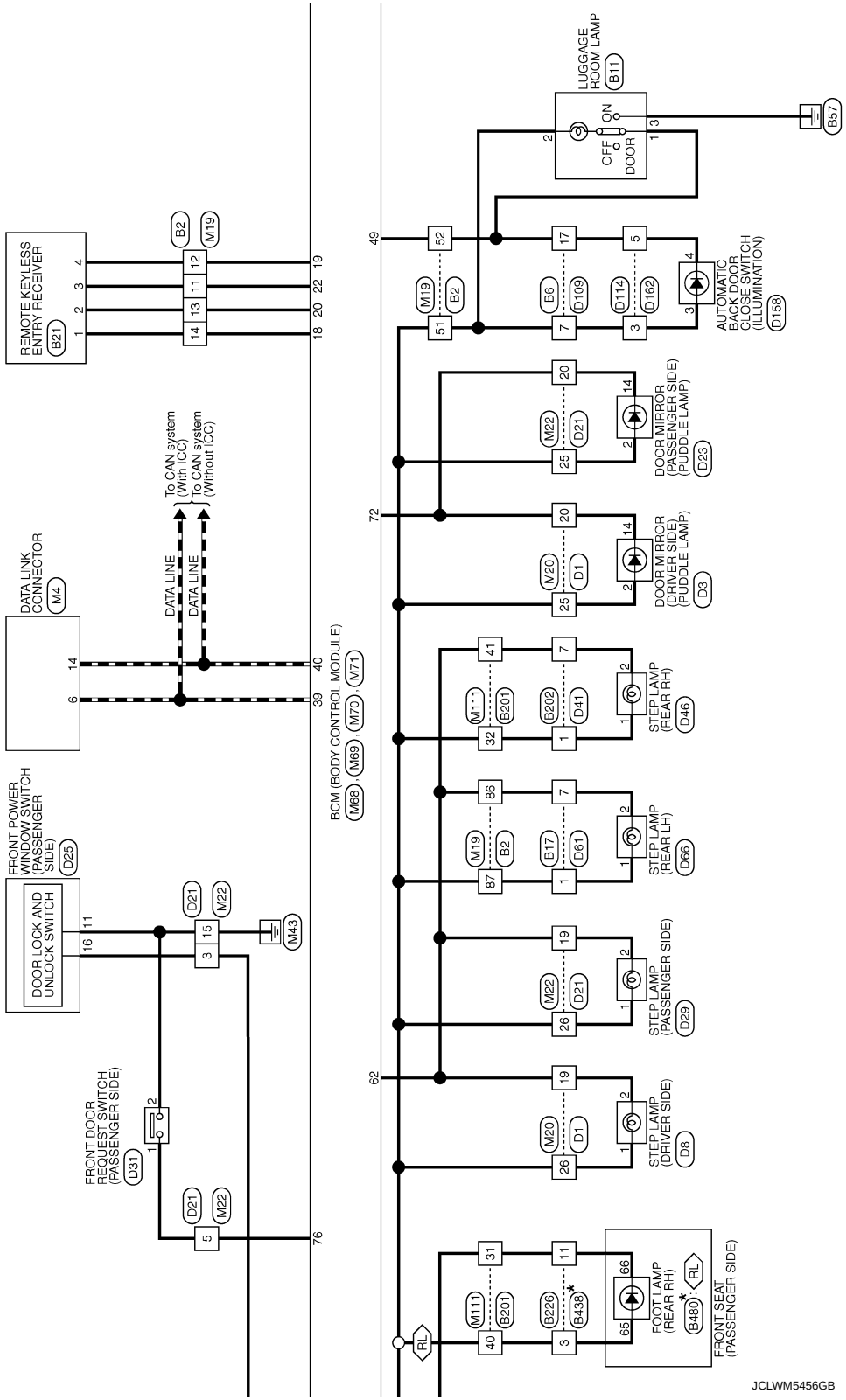
WIRING DIAGRAM

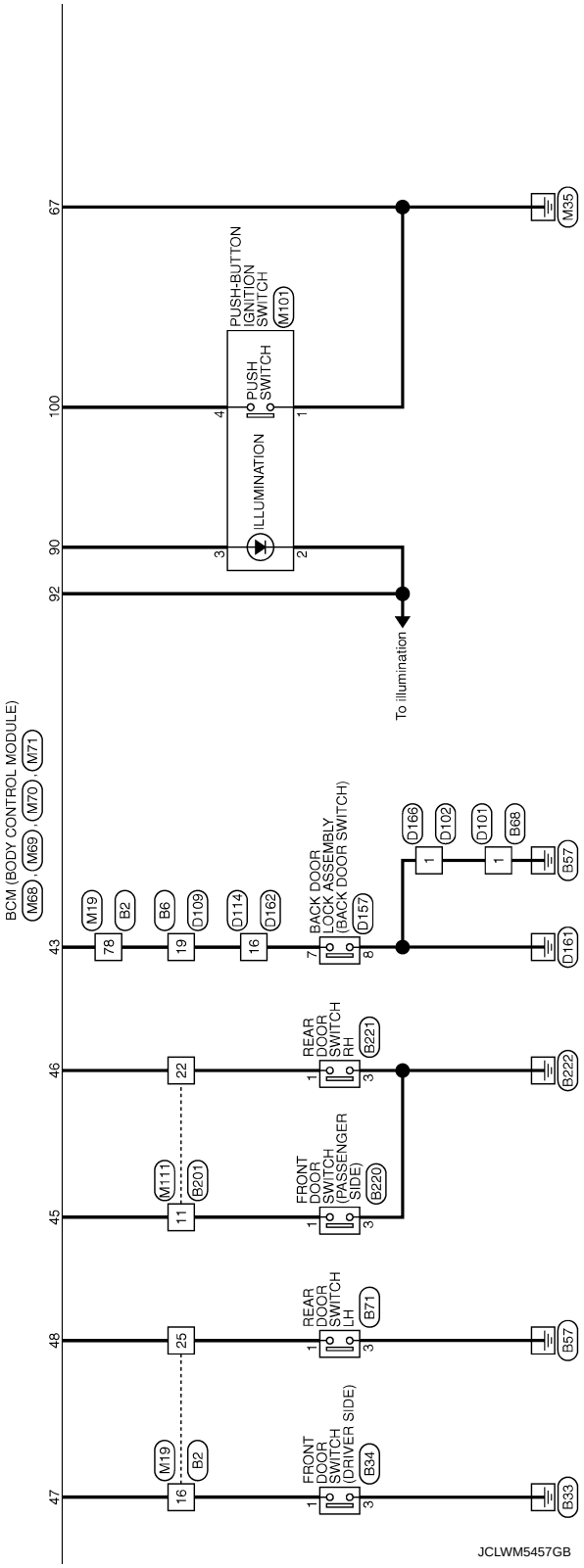
INTERIOR ROOM LAMP CONTROL SYSTEM

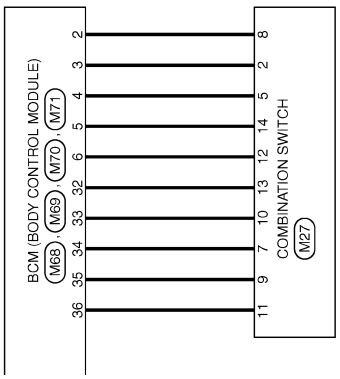
Wiring Diagram

INFOID:0000000006216062




LUGGAGE ROOM LAMP B11
ON
OFF
DOOR
B57
AUTOMATIC BACK DOOR CLOSE SWITCH (ILLUMINATION) D158
DOOR MIRROR (PASSENGER SIDE) (PUDDLE LAMP) D23
DOOR MIRROR (DRIVER SIDE) (PUDDLE LAMP) D3
STEP LAMP (REAR RH) D46
STEP LAMP (REAR LH) D66
STEP LAMP (PASSENGER SIDE) D29
STEP LAMP (DRIVER SIDE) D8
FOOT LAMP (REAR RH) B480
FRONT SEAT (PASSENGER SIDE)
REMOTE KEYLESS ENTRY RECEIVER B21
DATA LINK CONNECTOR M4
DATA LINE
To CAN system (With ICC)
To CAN system (Without ICC)
BCM (BODY CONTROL MODULE) M68, M69, M70, M71
FRONT POWER WINDOW SWITCH (PASSENGER SIDE) D25
DOOR LOCK AND UNLOCK SWITCH
FRONT DOOR REQUEST SWITCH (PASSENGER SIDE) D31
JCLWM5456GB


BCM (BODY CONTROL MODULE)
(M68), (M69), (M70), (M71)
67
100
90
92
43
46
45
48
47
PUSH-BUTTON IGNITION SWITCH (M101)
PUSH SWITCH
ILLUMINATION
To illumination
M35
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH) (D157)
D166
D102
D101
B68
B57
D161
REAR DOOR SWITCH RH (B221)
B222
FRONT DOOR SWITCH (PASSENGER SIDE) (B220)
M111
B201
REAR DOOR SWITCH LH (B71)
FRONT DOOR SWITCH (DRIVER SIDE) (B34)
M19
B2
B6
D109
D114
D162
B33
JCLWM5457GB



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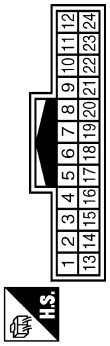
INTERIOR ROOM LAMP

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–
3	BR	–
5	R/W	–
6	L	–
7	V	–
9	G	–
11	W/B	–
12	BR	–
13	G/R	–
14	B/Y	–
15	W/R	–
16	GR/R	–
18	G/W	–
19	V	–
20	W/G	–
21	B/W	–
22	V	–
23	SHIELD	–
24	G	–
25	O	–
26	Y	–
27	L/O	–
28	Y/R	–
29	L	–
30	R	–
31	G/Y	–
32	B/SB	–
33	LG/R	–
34	BR/W	–
35	GR/R	–
36	SB	–
37	LG	–
38	L	–
39	P	–
40	W/G	–
42	G/R	–
43	V/W	–
44	LG/B	–
45	R/Y	–
46	B	–
49	GR	–
50	R/B	–
51	W/R	–
52	BR/Y	–
53	O/B	–
54	G/O	–
55	R/B	–
56	LG/R	–
57	GR/R	–
58	Y/G	–
59	V/W	–
60	R	–
63	Y	–
64	R	–
65	W	–
66	G	–
67	B	–
68	SHIELD	–
69	LG/B	–
70	P/L	–
71	L	–
72	R	–
77	Y/B	–
78	Y/L	–
79	Y	–
80	W/R	–
81	Y/L	–
83	BR	–
84	L/O	–
86	O	–
87	W/R	–
88	O	–
89	W/L	–
90	GR/L	–
91	W	–
92	G	–
94	W/R	–
96	L/W	–
97	R	–
98	V	–
99	L/W	–
100	P/B	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

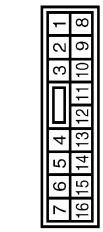


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	R	–
3	Y	–
5	LG	–
6	GR	–
7	L/O	–
8	Y	–
9	L	–
10	B/W	–
11	W/G	–
12	W/R	–
13	B	–
14	G	–
15	SHIELD	–
17	BR/Y	–
18	W/L	–
19	Y/L	–
20	G/Y	–
21	L/Y	–
22	L/W	–
23	G/W	–
24	L/R	–

Connector No.	B11
Connector Name	LUGGAGE ROOM LAMP
Connector Type	TK03FW

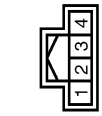
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR/Y	–
2	W/R	–
3	B	–

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	G	–
5	R	–
6	L/O	–
7	O	–
8	B	–
9	L	–
10	R/Y	–
15	V	–
16	W	–

Connector No.	B21
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B/Y	GND
2	G/R	SIGNAL OUTPUT
3	W/B	RSSI
4	BR	BATTERY

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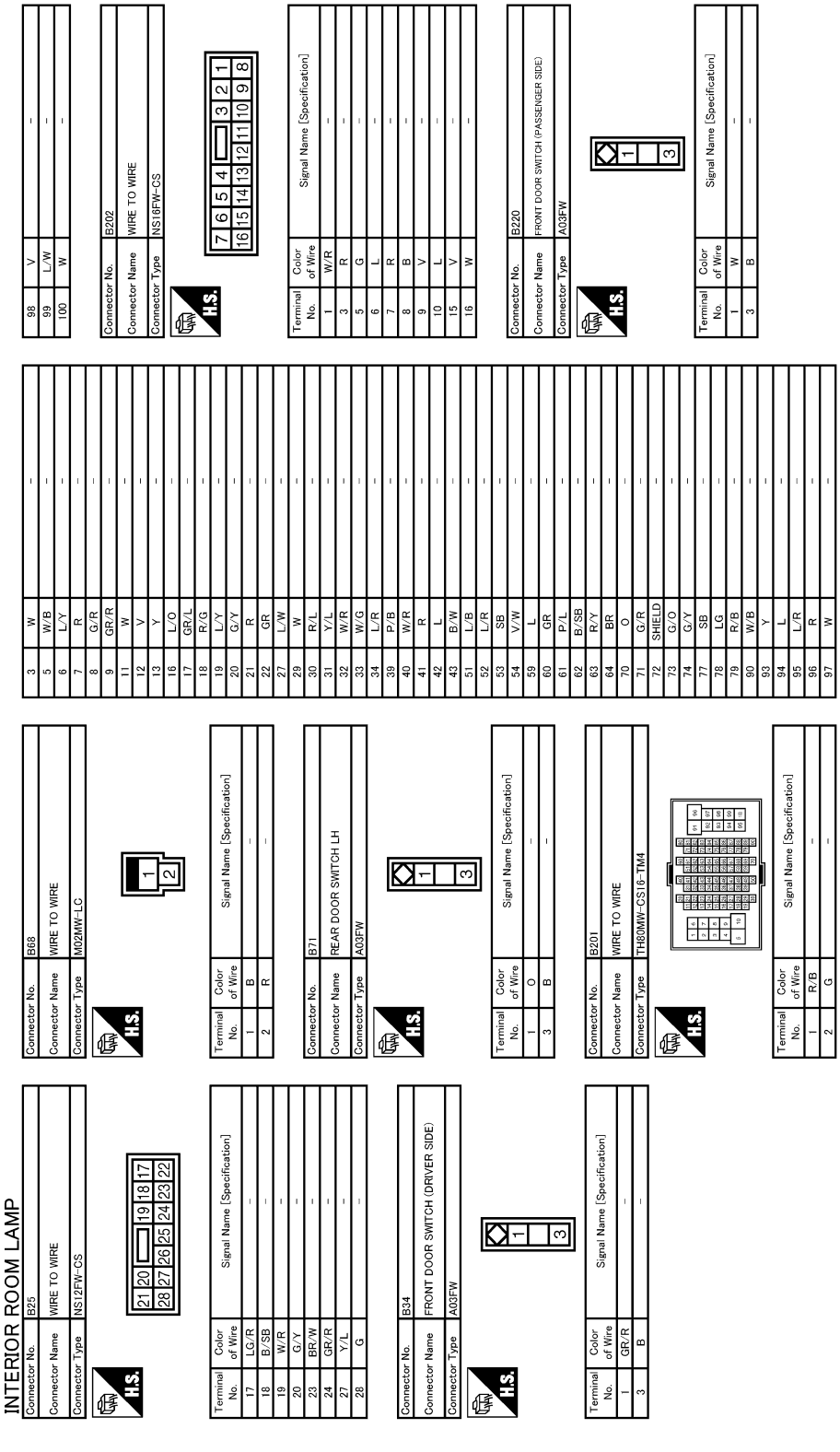

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INTERIOR ROOM LAMP

Connector No.	B221
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
3	B	–

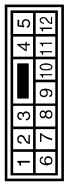
Connector No.	B226
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/SB	–
2	P/L	–
3	W/R	–
4	GR	–
5	W	–
6	B	–
7	R/Y	–
8	BR	–
9	R/B	–
10	L/Y	–
11	Y/L	–
12	L	–

Connector No.	B438
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	–	–
2	–	–
3	–	–
4	–	–
5	R	–
6	LG	–
7	P/B	–
8	–	–
9	–	–
10	–	–
11	–	–
12	–	–

Connector No.	B464
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
17	–	–
18	–	–
19	–	–
20	–	–
23	P/B	–
24	–	–
27	–	–
28	–	–

Connector No.	B479
Connector Name	FOOT LAMP (REAR LH)
Connector Type	A02FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
65	–	–
66	–	–

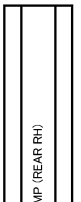
Connector No.	B480
Connector Name	FOOT LAMP (REAR RH)
Connector Type	A02FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
65	–	–
66	–	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	W	–

3	V	–
4	Y	–
5	LG/R	–
6	BR/W	–
8	V	–
9	G	–
10	L	–
11	L/O	–
13	Y	–
14	R	–
15	B	–
18	B	–
19	R	–
20	P	–
22	V	–
23	P/B	–
25	BR/W	–
26	W/R	–
28	W/G	–
33	V/W	–
36	W/B	–
37	BR/Y	–
38	SB	–
39	W/L	–
40	L/W	–
41	Y/G	–
42	P/L	–
43	LG	–
44	SHIELD	–
45	G	–
46	W	–
47	O	–
48	G/W	–
49	Y	–
50	L/Y	–
51	GR/R	–
52	LG/B	–
53	Y	–
54	B	–
55	R	–

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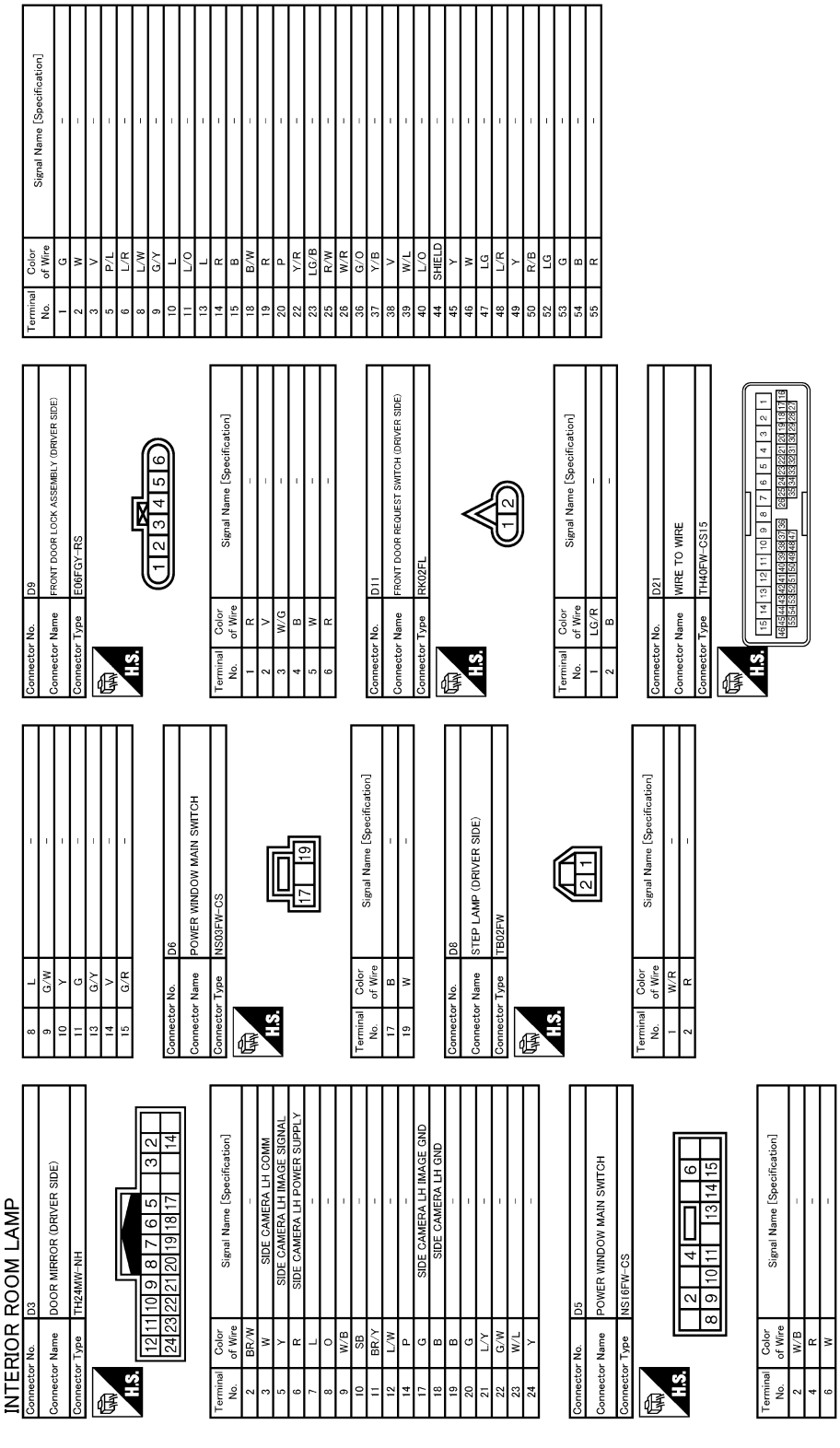

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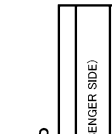
INTERIOR ROOM LAMP

Connector No.	D23
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	R/W	–
3	W	SIDE CAMERA LH COMM
4	LG	SIDE CAMERA LH IMAGE SIGNAL
5	Y	SIDE CAMERA LH POWER SUPPLY
6	R	–
7	L	–
8	LG	–
9	G/O	–
10	V	–
11	Y/B	–
12	L/O	–
14	P	–
17	G	SIDE CAMERA LH IMAGE GND
18	B	SIDE CAMERA LH GND
19	B	–
20	G/Y	–
21	R/B	–
22	L/R	–
23	W/L	–
24	Y	–

Connector No.	D25
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
3	W/B	–
4	G/R	–

8	L	–
9	G	–
10	W	–
11	B	–
12	G/Y	–
15	G/W	–
16	V	–

Connector No.	D29
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
2	R	–

Connector No.	D31
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02FL

Terminal No.	Color of Wire	Signal Name [Specification]
1	P/L	–
2	B	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	R	–
5	G	–
6	L	–
7	R	–
8	B	–
9	V	–
10	L	–
15	V	–
16	W	–

Connector No.	D46
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
2	R	–

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	G	–
5	R	–
6	L/O	–
7	O	–
8	B	–
9	L	–
10	R/Y	–
15	V	–
16	W	–

Connector No.	D66
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
2	O	–

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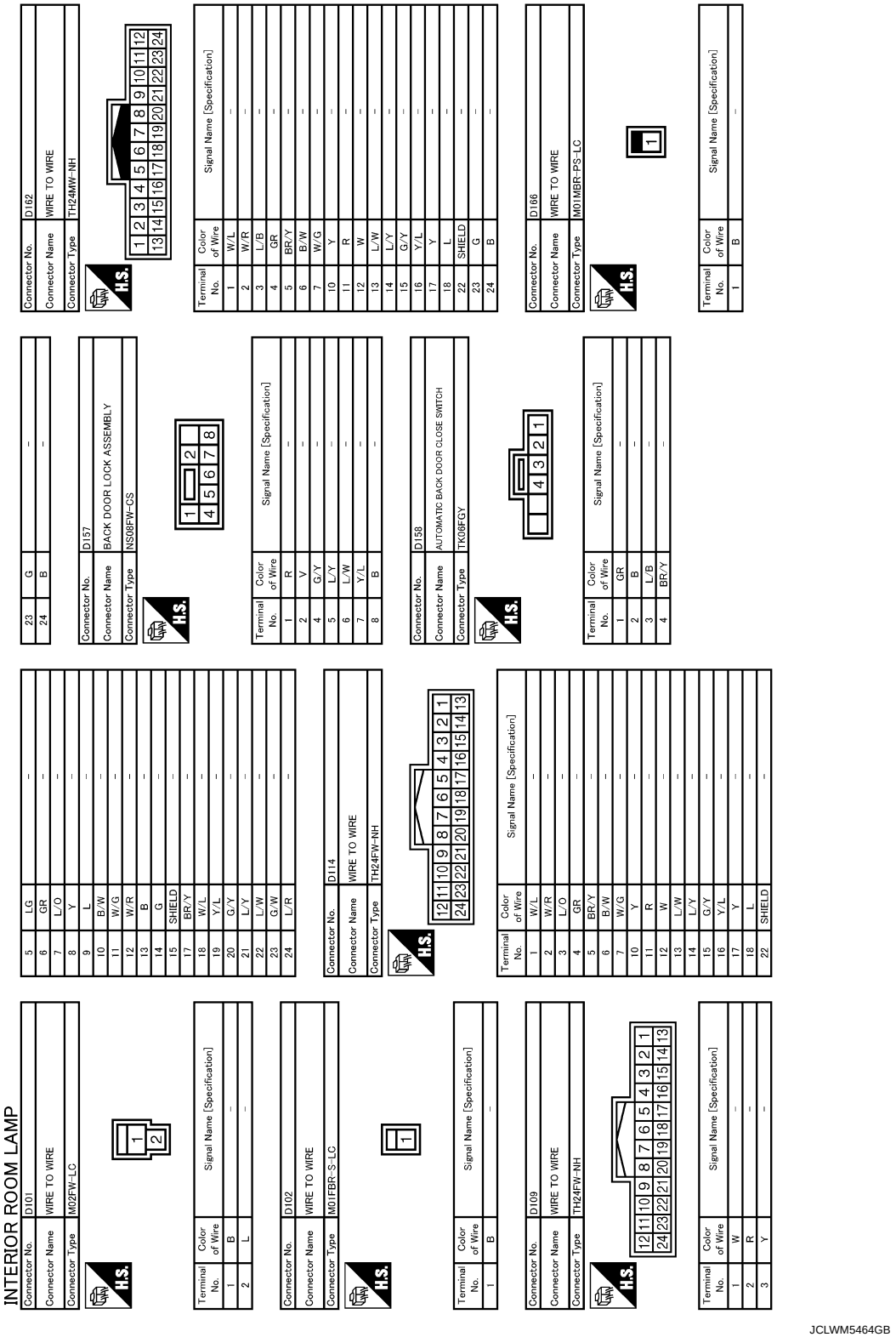
INTERIOR ROOM LAMP
Connector No. D101
Connector Name WIRE TO WIRE
Connector Type M02FW-LC
Terminal No. Color of Wire Signal Name [Specification]
1 B –
2 L –
Connector No. D102
Connector Name WIRE TO WIRE
Connector Type M01FBR-S-LC
Terminal No. Color of Wire Signal Name [Specification]
1 B –
Connector No. D109
Connector Name WIRE TO WIRE
Connector Type TH24FW-NH
Terminal No. Color of Wire Signal Name [Specification]
1 W –
2 R –
3 Y –
5 LG –
6 GR –
7 L/O –
8 Y –
9 L –
10 B/W –
11 W/G –
12 W/R –
13 B –
14 G –
15 SHIELD –
17 BR/Y –
18 W/L –
19 Y/L –
20 G/Y –
21 L/Y –
22 L/W –
23 G/W –
24 L/R –
Connector No. D114
Connector Name WIRE TO WIRE
Connector Type TH24FW-NH
Terminal No. Color of Wire Signal Name [Specification]
1 W/L –
2 W/R –
3 L/O –
4 GR –
5 BR/Y –
6 B/W –
7 W/G –
10 Y –
11 R –
12 W –
13 L/W –
14 L/Y –
15 G/Y –
16 Y/L –
17 Y –
18 L –
22 SHIELD –
23 G –
24 B –
Connector No. D157
Connector Name BACK DOOR LOCK ASSEMBLY
Connector Type NS08FW-CS
Terminal No. Color of Wire Signal Name [Specification]
1 R –
2 V –
4 G/Y –
5 L/Y –
6 L/W –
7 Y/L –
8 B –
Connector No. D158
Connector Name AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type TK06FGY
Terminal No. Color of Wire Signal Name [Specification]
1 GR –
2 B –
3 L/B –
4 BR/Y –
Connector No. D162
Connector Name WIRE TO WIRE
Connector Type TH24MW-NH
Terminal No. Color of Wire Signal Name [Specification]
1 W/L –
2 W/R –
3 L/B –
4 GR –
5 BR/Y –
6 B/W –
7 W/G –
10 Y –
11 R –
12 W –
13 L/W –
14 L/Y –
15 G/Y –
16 Y/L –
17 Y –
18 L –
22 SHIELD –
23 G –
24 B –
Connector No. D166
Connector Name WIRE TO WIRE
Connector Type M01MBR-PS-LC
Terminal No. Color of Wire Signal Name [Specification]
1 B –
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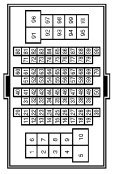
INTERIOR ROOM LAMP

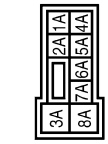
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	L/W	–
3	R/B	–
4	L	–
5	Y	–
7	W/G	–
8	P/B	–
9	W/B	–
10	L	–
11	L	–
12	P	–
13	P/B	–
14	BR	–
15	L/B	–
16	SB	–
17	P	–
18	BR	–
19	Y/G	–
20	BR/Y	–
21	Y/V	–
22	L	–
23	Y	–
24	L/W	–
26	L	–
27	L/W	–
28	O	–
29	R/W	–
30	L/B	–
31	Y	–
32	GR/R	–
34	Y	–
35	R	–
36	B/R	–
37	G/Y	–
38	G	–
40	SB	–
41	W/R	–
42	R	–

43	V	–
51	L/O	–
52	BR/W	–
53	BR/Y	–
54	GR/L	–
60	W	–
61	B	–
62	R	–
63	G	–
64	SHIELD	–
91	BR	–
92	L/W	–
94	Y/B	–
95	G/R	–
97	R	–
98	G/B	–
100	W/R	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1A	Y	–
2A	GR	–
3A	W	–
4A	Y/G	–
5A	V	–
6A	L/W	–
7A	LG	–
8A	W	–

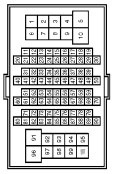
Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	–
4	B	–
5	B	–
6	L	–
7	SB	–
8	GR	–
11	SB	–
12	R	–
13	L	–
14	P	–
16	Y	–

JCLWM5465GB

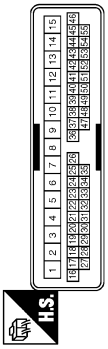
INTERIOR ROOM LAMP

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–
3	BR	–
5	R/W	–
6	L	–
7	V	–
9	G	–
11	W/B	–
12	BR	–
13	G/R	–
14	B/Y	–
15	W/R	–
16	GR/R	–
18	G/W	–
19	V	–
20	W/G	–
21	B/W	–
22	V	–
23	SHIELD	–
24	G	–
25	O	–
26	Y	–
27	L/O	–
28	Y/R	–
29	L	–
30	R	– [With ICC]
30	P	– [Without ICC]
31	G/Y	–
32	B/SB	–
33	LG/R	–
34	BR/W	–
35	GR/R	–
36	SB	–
37	LG	–
38	L	–
39	P	–
40	W/G	–
42	G/R	–
43	V/W	–
44	LG/B	–
45	R/Y	–
46	B	–
49	GR	–
50	R/B	–
51	W/R	–
52	BR/Y	–
53	O/B	–
54	G/O	–
55	R/B	–
56	LG/R	–
57	GR/R	–
58	Y/G	–
59	V/W	–
60	R	–
63	Y	–
64	R	–
65	W	–
66	G	–
67	B	–
68	SHIELD	–
69	LG/B	–
70	P/L	–
71	L	–
72	R	–
77	Y/B	–
78	Y/L	–
79	Y	–
80	W/R	–
81	Y/L	–
83	BR/W	–
84	L/O	–
86	O	–
87	W/R	–
88	O	–
89	W/L	–
90	GR/L	–
91	W	–
92	G	–
94	W/R	–
96	L/W	–
97	R	–
98	V	–
99	L/W	–
100	P/B	–

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	W	–
3	V	–
4	Y	–
5	LG/R	–
6	BR/W	–
8	V	–
9	G	–
10	L	–
11	L/O	–
13	Y	–
14	R	–
15	B	–
18	B	–
19	R	–
20	P	–
22	V	–
23	P/B	–
25	BR/W	–
26	W/R	–
28	W/G	–
33	V/W	–
36	W/B	–
37	BR/Y	–
38	SB	–
39	W/L	–
40	L/W	–
41	Y/G	–
42	P/L	–
43	LG	–
44	SHIELD	–
45	G	–
46	W	–
47	O	–
48	G/W	–
49	Y	–
50	L/Y	–
51	GR/R	–
52	LG/B	–
53	Y	–
54	B	–
55	R	–

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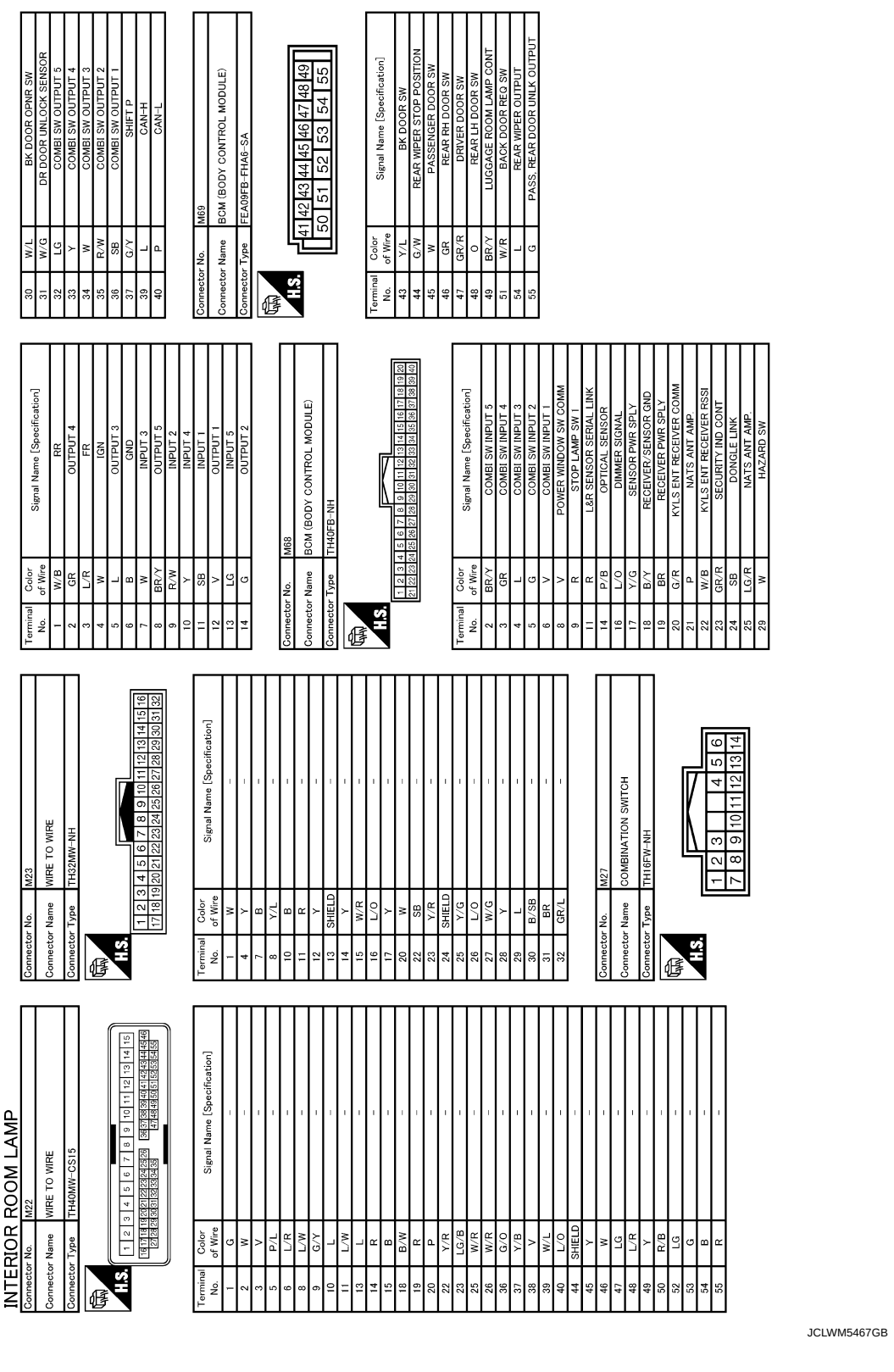
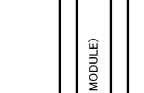


JCLWM5467GB

INTERIOR ROOM LAMP

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

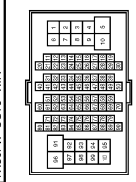


Terminal No.	Color of Wire	Signal Name [Specification]
56	W/R	INT ROOM LAMP PWR SPLY
57	LG	BAT (FUSE)
59	G	PASSENGER DOOR UNLK OUTPUT
60	G	TURN SIGNAL LH OUTPUT
61	G/Y	TURN SIGNAL RH OUTPUT
62	R	STEP LAMP CONT
63	BR	ROOM LAMP TIMER CONT
64	GR/R	CRANKING REQUEST
65	R	ALL DOOR LOCK OUTPUT
66	V	DR DOOR, FUEL LID UNLK OUTPUT
67	B	GND
68	Y	PW PWR SPLY (IGN)
69	W	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

Connector No.	M71
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
72	P	PUDDLE LAMP CONT
73	W	ON IND
74	Y/B	TRAILER TURN SIG RH CONT
75	LG/R	DRIVER DOOR REQUEST SW
76	P/L	PASSENGER DOOR REQUEST SW
77	O/L	TRAILER TURN SIG LH CONT
78	P/B	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG/B	PASSENGER DOOR ANT+
81	Y/R	PASSENGER DOOR ANT-
82	W/G	BACK DOOR ANT+
83	B/W	BACK DOOR ANT-
84	BR	ROOM ANT1+
85	Y	ROOM ANT1-
86	W	ROOM ANT2+
87	B	ROOM ANT2-
88	V	LAGGAGE ROOM ANT+
89	G	LAGGAGE ROOM ANT-
90	Y	PUSH-BTN IGN SW ILL PWR
91	O	LOCK IND
92	L	LOW SIDE PUSH LED
93	GR/R	I-KEY WARN BUZZER
94	Y/G	S/L UNIT COMM
95	W	S/L UNIT PWR SPLY
96	BR	ACC RELAY CONT
97	R/W	STARTER RELAY CONT
98	O	IGN RELAY (IPDM E/R) CONT
99	R	IGN RELAY (F/B) CONT
100	SB	PUSH SW
101	W/B	IGN PWR SPLY 2
102	BR	SHIFT N/P
104	R/B	A/T SHIFT SELECT PWR SPLY
105	O/L	STOP LAMP SW 2
106	Y/G	BLWR FAN MTR RELAY CONT
107	L	S/L CONDITION1
108	P	S/L CONDITION2
109	L/W	ACC IND

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	L/W	–
3	R/B	–
4	L	–
5	Y	–
7	W/G	–
8	P/B	–
9	W/B	–
10	L	–
11	L	–
12	P	– [With ICC]
12	R	– [Without ICC]
13	P/B	–
14	BR	–
15	O/L	–
16	SB	–
17	P	–
18	BR	–
19	Y/G	–
20	BR/Y	–
21	V	–
22	L	–
23	Y	–
24	L/W	–
26	L	–
27	L/W	–
28	O	–
29	R/W	–
30	O/L	–
31	Y	–
32	GR/R	–
34	Y	–
35	R	–
36	B/O	–
37	G/Y	–
38	G	–
40	SB	–
41	W/R	–
42	R	–
43	V	–
51	L/O	–
52	BR/W	–
53	BR/Y	–
54	GR/L	–
60	W	–
61	B	–
62	G	–
63	R	–
64	SHIELD	–
91	BR	–
92	L/W	–
94	Y/B	–
95	L/R	–
97	R	–
98	O/L	–
100	W/B	–

Connector No.	M89
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	A02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
2	Y/L	–

Connector No.	M90
Connector Name	FOOT LAMP (PASSENGER SIDE)
Connector Type	A02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/L	–
2	W/R	–

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INTERIOR ROOM LAMP

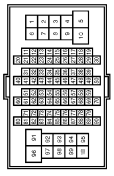
Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	B	–
3	Y	–
4	SB	–
5	O	–
6	L/W	–
7	W	–
8	LG	–

Connector No.	M111
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	R/B	–
2	G	–
3	W/R	–
5	W/B	–
6	L/Y	–
7	R	–
8	G/R	–
9	GR/R	–
11	W	–
12	V	–
13	Y	–
16	L/O	–
17	GR/L	–
18	R/G	–

19	L/Y	–
20	G/Y	–
21	R	–
22	GR	–
27	L/O	–
29	SB	–
30	R/L	–
31	Y/L	–
32	W/R	–
33	W/G	–
34	L/R	–
39	P/B	–
40	W/R	–
41	R	–
42	L/W	–
43	B/W	–
51	O/L	–
52	L/R	–
53	SB	–
54	V/W	–
59	L	–
60	GR	–
61	P/L	–
62	B/SB	–
63	R/Y	–
64	BR	–
70	O	–
71	G/R	–
72	SHIELD	–
73	G/O	–
74	G/Y	–
77	SB	–
78	LG	–
79	R/B	–
90	W/B	–
93	Y	–
94	L	–
95	L/R	–
96	R	–
97	W	–
98	V	–
99	L/W	–
100	W	–

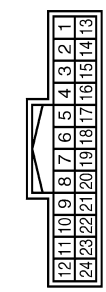
Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	Y	–
7	B	–
8	Y/L	–
10	B	–
11	R	–
12	Y	–
13	SHIELD	–
14	B/Y	–
15	W/R	–
16	L/O	–
17	Y	–
20	W	–
22	SB	–
23	Y	–
24	SHIELD	–
25	Y/G	–
26	L	–
27	W/G	–
28	Y	–
29	L	–
30	B/SB	–
31	BR	–
32	B/R	–

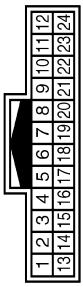
Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.



Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	GR	–
8	SHIELD	–
9	Y/L	–
10	Y/G	–
11	B/SB	–
12	W/R	–
17	L/O	–
23	BR	–
24	B/Y	–

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	GR	–
8	SHIELD	–
9	L	–
10	R	–
11	B	–
12	V	–
17	P	–
23	BR	–
24	O	–

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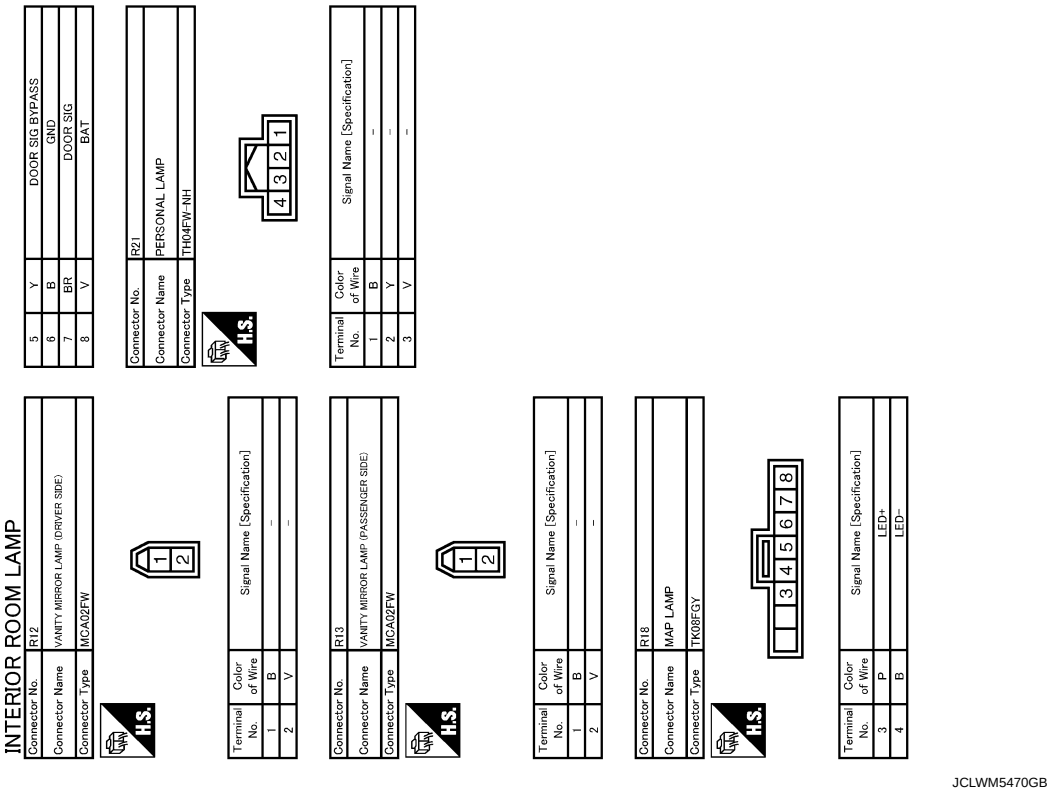

JCLWM5470GB

< WIRING DIAGRAM >

ILLUMINATION

Wiring Diagram

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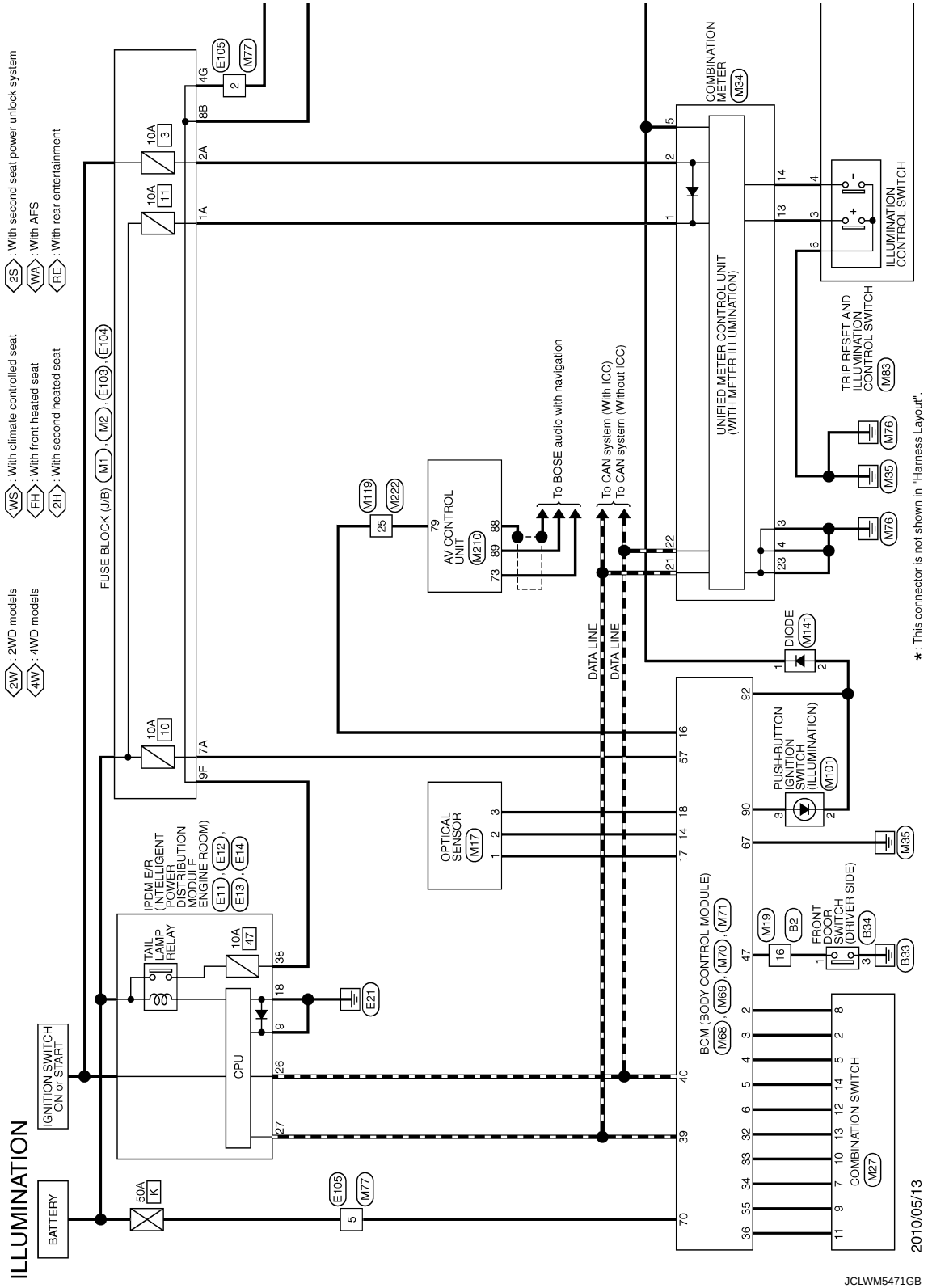
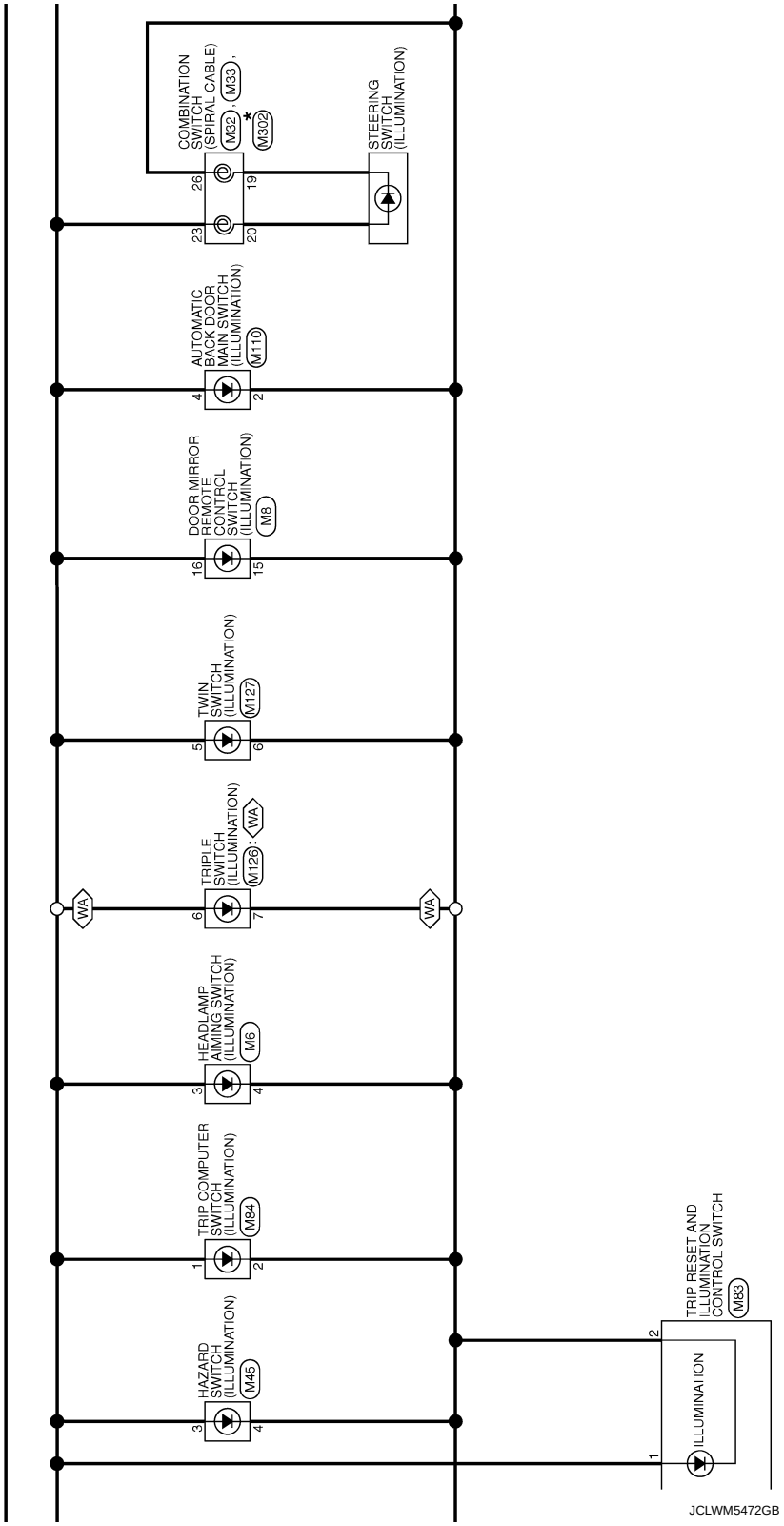
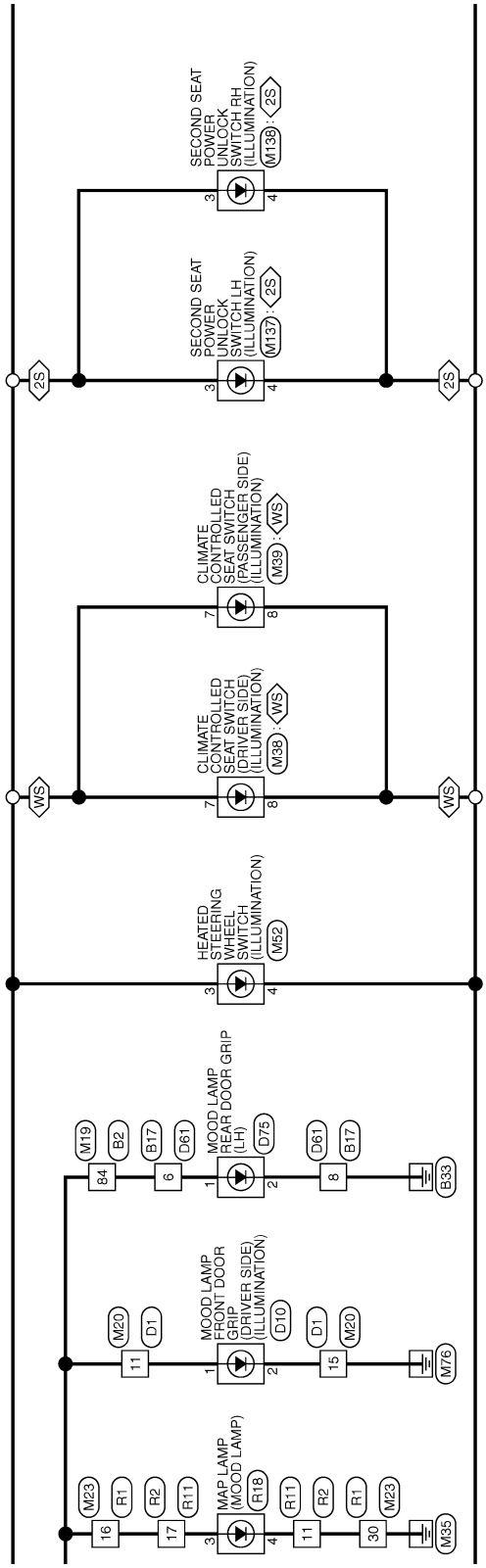
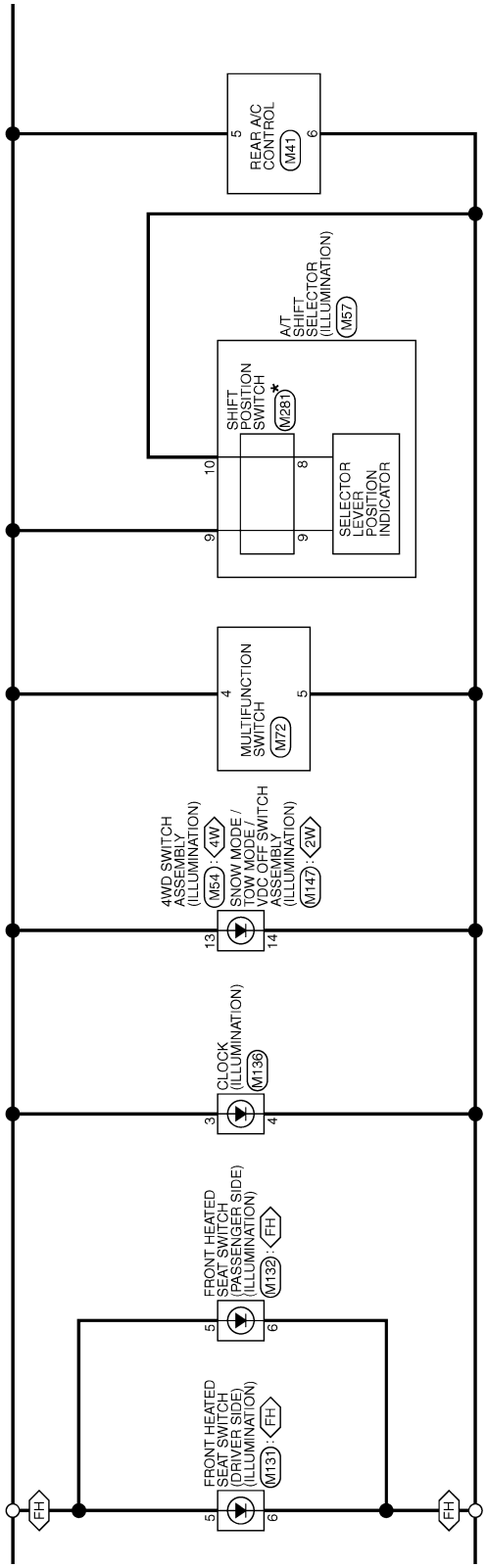



COMBINATION SWITCH (SPIRAL CABLE)
M32, M33, *M302
26
23
19
20
STEERING SWITCH (ILLUMINATION)
AUTOMATIC BACK DOOR MAIN SWITCH (ILLUMINATION)
M110
4
2
DOOR MIRROR REMOTE CONTROL SWITCH (ILLUMINATION)
M8
16
15
TWIN SWITCH (ILLUMINATION)
M127
5
6
TRIPLE SWITCH (ILLUMINATION)
WA
M126
6
7
WA
WA
HEADLAMP AIMING SWITCH (ILLUMINATION)
M6
3
4
TRIP COMPUTER SWITCH (ILLUMINATION)
M84
1
2
HAZARD SWITCH (ILLUMINATION)
M45
3
4
TRIP RESET AND ILLUMINATION CONTROL SWITCH
M83
2
1
ILLUMINATION
JCLWM5472GB


SECOND SEAT POWER UNLOCK SWITCH RH (ILLUMINATION)
M138
2S
SECOND SEAT POWER UNLOCK SWITCH LH (ILLUMINATION)
M137
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE) (ILLUMINATION)
M39
WS
CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE) (ILLUMINATION)
M38
HEATED STEERING WHEEL SWITCH (ILLUMINATION)
M52
MOOD LAMP REAR DOOR GRIP (LH)
D75
MOOD LAMP FRONT DOOR GRIP (DRIVER SIDE) (ILLUMINATION)
D10
MAP LAMP (MOOD LAMP)
R18
M19
B2
B17
D61
M20
D1
M23
R1
R2
R11
B33
M76
M35
JCLWM5473GB



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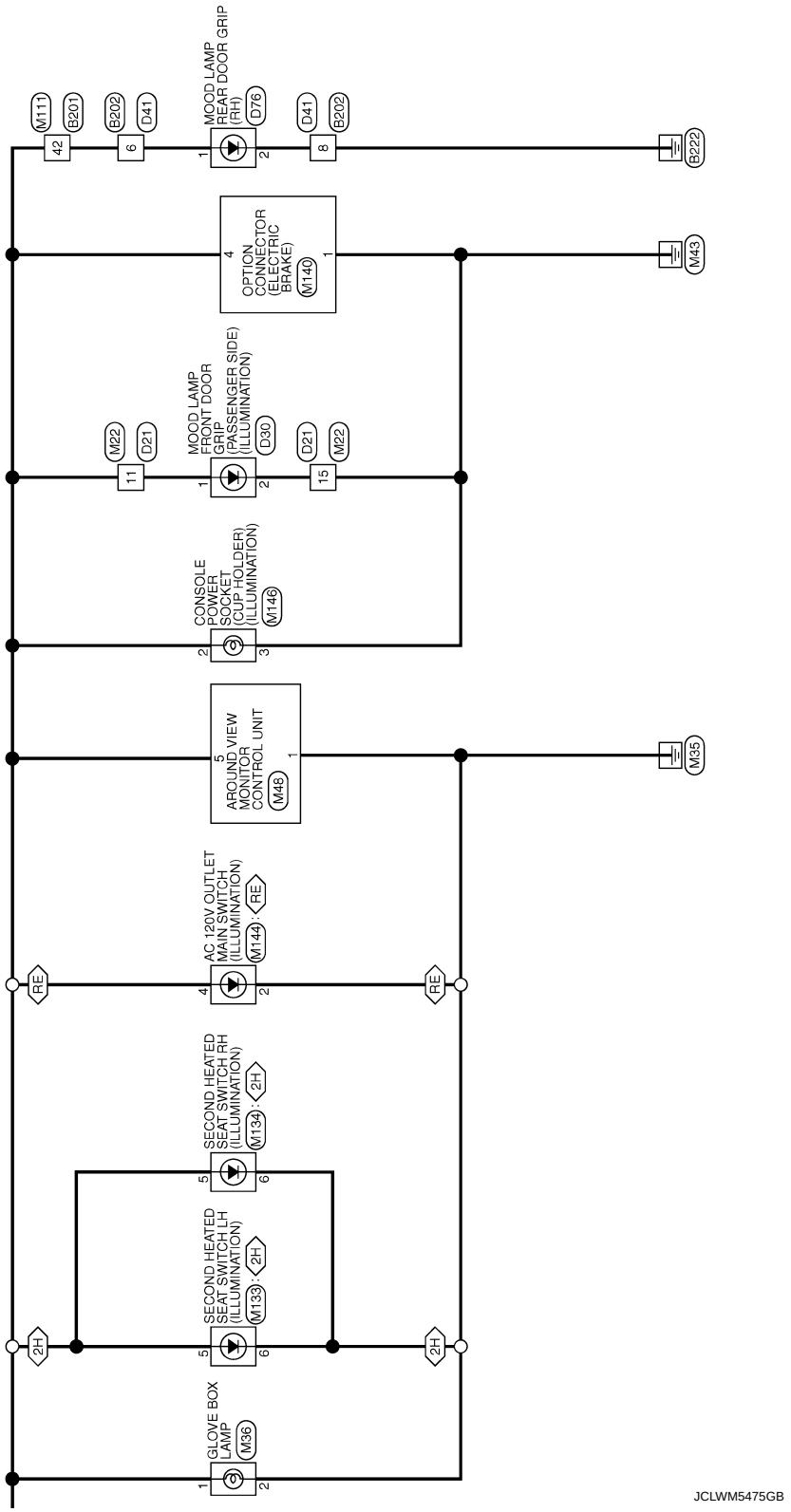
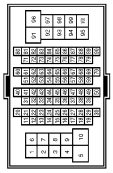

MOOD LAMP REAR DOOR GRIP (RH)
M111
B201
42
B202
D41
6
D76
1
2
D41
B202
8
B222
OPTION CONNECTOR (ELECTRIC BRAKE)
M140
4
1
M43
MOOD LAMP FRONT DOOR GRIP (PASSENGER SIDE) (ILLUMINATION)
M22
D21
11
D30
1
2
D21
M22
15
CONSOLE POWER SOCKET (CUP HOLDER) (ILLUMINATION)
M146
2
3
AROUND VIEW MONITOR CONTROL UNIT
M48
5
1
M35
AC 120V OUTLET MAIN SWITCH (ILLUMINATION)
M144
RE
4
2
RE
RE
SECOND HEATED SEAT SWITCH RH (ILLUMINATION)
M134
2H
5
6
SECOND HEATED SEAT SWITCH LH (ILLUMINATION)
M133
2H
5
6
2H
2H
GLOVE BOX LAMP
M36
1
2
JCLWM5475GB

ILLUMINATION

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–
3	BR	–
5	R/W	–
6	L	–
7	V	–
9	G	–
11	W/B	–
12	BR	–
13	G/R	–
14	B/Y	–
15	W/R	–
16	GR/R	–
18	G/W	–
19	V	–
20	W/G	–
21	B/W	–
22	V	–
23	SHIELD	–
24	G	–
25	O	–
26	Y	–
27	L/O	–
28	Y/R	–
29	L	–
30	R	–
31	G/Y	–
32	B/SB	–
33	LG/R	–
34	BR/W	–
35	GR/R	–
36	SB	–
37	LG	–
38	L	–
39	P	–
40	W/G	–
42	G/R	–
43	V/W	–
44	LG/B	–
45	R/Y	–
46	B	–
49	GR	–
50	R/B	–
51	W/R	–
52	BR/Y	–
53	O/B	–
54	G/O	–
55	R/B	–
56	LG/R	–
57	GR/R	–
58	Y/G	–
59	V/W	–
60	R	–
63	Y	–
64	R	–
65	W	–
66	G	–
67	B	–
68	SHIELD	–
69	LG/B	–
70	P/L	–
71	L	–
72	R	–
77	Y/B	–
78	Y/L	–
79	Y	–
80	W/R	–
81	Y/L	–
83	BR	–
84	L/O	–
86	O	–
87	W/R	–
88	O	–
89	W/L	–
90	GR/L	–
91	W	–
92	G	–
94	W/R	–
96	L/W	–
97	R	–
98	V	–
99	L/W	–
100	P/B	–

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	G	–
5	R	–
6	L/O	–
7	O	–
8	B	–
9	L	–
10	R/Y	–
15	V	–
16	W	–

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR/R	–
3	B	–

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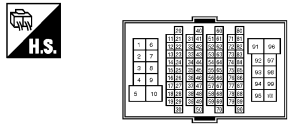
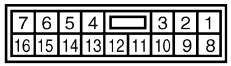
ILLUMINATION

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



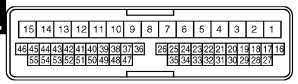
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/B	–
2	G	–
3	W	–
5	W/B	–
6	L/Y	–
7	R	–
8	G/R	–
9	GR/R	–
11	W	–
12	V	–
13	Y	–
16	L/O	–
17	GR/L	–
18	R/G	–
19	L/Y	–
20	G/Y	–
21	R	–
22	GR	–
27	L/W	–
29	W	–
30	R/L	–
31	Y/L	–
32	W/R	–
33	W/G	–
34	L/R	–
39	P/B	–
40	W/R	–
41	R	–
42	L	–
43	B/W	–
51	L/B	–
52	L/R	–
53	SB	–
54	V/W	–
59	L	–
60	GR	–
61	P/L	–
62	B/SB	–
63	R/Y	–
64	BR	–
70	O	–
71	G/R	–
72	SHIELD	–
73	G/O	–
74	G/Y	–
77	SB	–
78	LG	–
79	R/B	–
90	W/B	–
93	Y	–
94	L	–
95	L/R	–
96	R	–
97	W	–
98	V	–
99	L/W	–
100	W	–

Connector No.	B202
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	R	–
5	G	–
6	L	–
7	R	–
8	B	–
9	V	–
10	L	–
15	V	–
16	W	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	W	–
3	V	–
4	Y	–
5	LG/R	–
6	BR/W	–
8	V	–
9	G	–
10	L	–
11	L/O	–
13	Y	–
14	R	–
15	B	–
18	B	–
19	R	–
20	P	–
22	V	–
23	P/B	–
25	BR/W	–
26	W/R	–
28	W/G	–
33	V/W	–
36	W/B	–
37	BR/Y	–
38	SB	–
39	W/L	–
40	L/W	–
41	Y/G	–
42	P/L	–
43	LG	–
44	SHIELD	–
45	G	–
46	W	–
47	O	–
48	G/W	–
49	Y	–
50	L/Y	–
51	GR/R	–
52	LG/B	–
53	Y	–
54	B	–
55	R	–

Connector No.	D10
Connector Name	MOOD LAMP FRONT DOOR GRIP (DRIVER SIDE)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	–
2	B	–

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Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	W	–
3	V	–
5	P/L	–
6	L/R	–
8	L/W	–
9	G/Y	–
10	L	–
11	L/O	–
13	L	–
14	R	–
15	B	–
18	B/W	–
19	R	–
20	P	–
22	Y/R	–
23	LG/B	–
25	R/W	–
26	W/R	–
36	G/O	–
37	Y/B	–
38	V	–
39	W/L	–
40	L/O	–
44	SHIELD	–
45	Y	–
46	W	–
47	LG	–
48	L/R	–
49	Y	–
50	R/B	–
52	LG	–
53	G	–
54	B	–
55	R	–

Connector No.	D30
Connector Name	MOOD LAMP FRONT DOOR GRIP (PASSENGER SIDE)
Connector Type	TK02FGY

H.S.

2 1

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	–
2	B	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	R	–
5	G	–
6	L	–
7	R	–
8	B	–
9	V	–
10	L	–
15	V	–
16	W	–

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/R	–
3	G	–
5	R	–
6	L/O	–
7	O	–
8	B	–
9	L	–
10	R/Y	–
15	V	–
16	W	–

Connector No.	D75
Connector Name	MOOD LAMP REAR DOOR GRIP (LH)
Connector Type	TK02FGY

H.S.

2 1

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	–
2	B	–

Connector No.	D76
Connector Name	MOOD LAMP REAR DOOR GRIP (RH)
Connector Type	TK02FGY

H.S.

2 1

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

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

H.S.

11	10	9
14	13	12

Terminal No.	Color of Wire	Signal Name [Specification]
9	B	–
14	L	–

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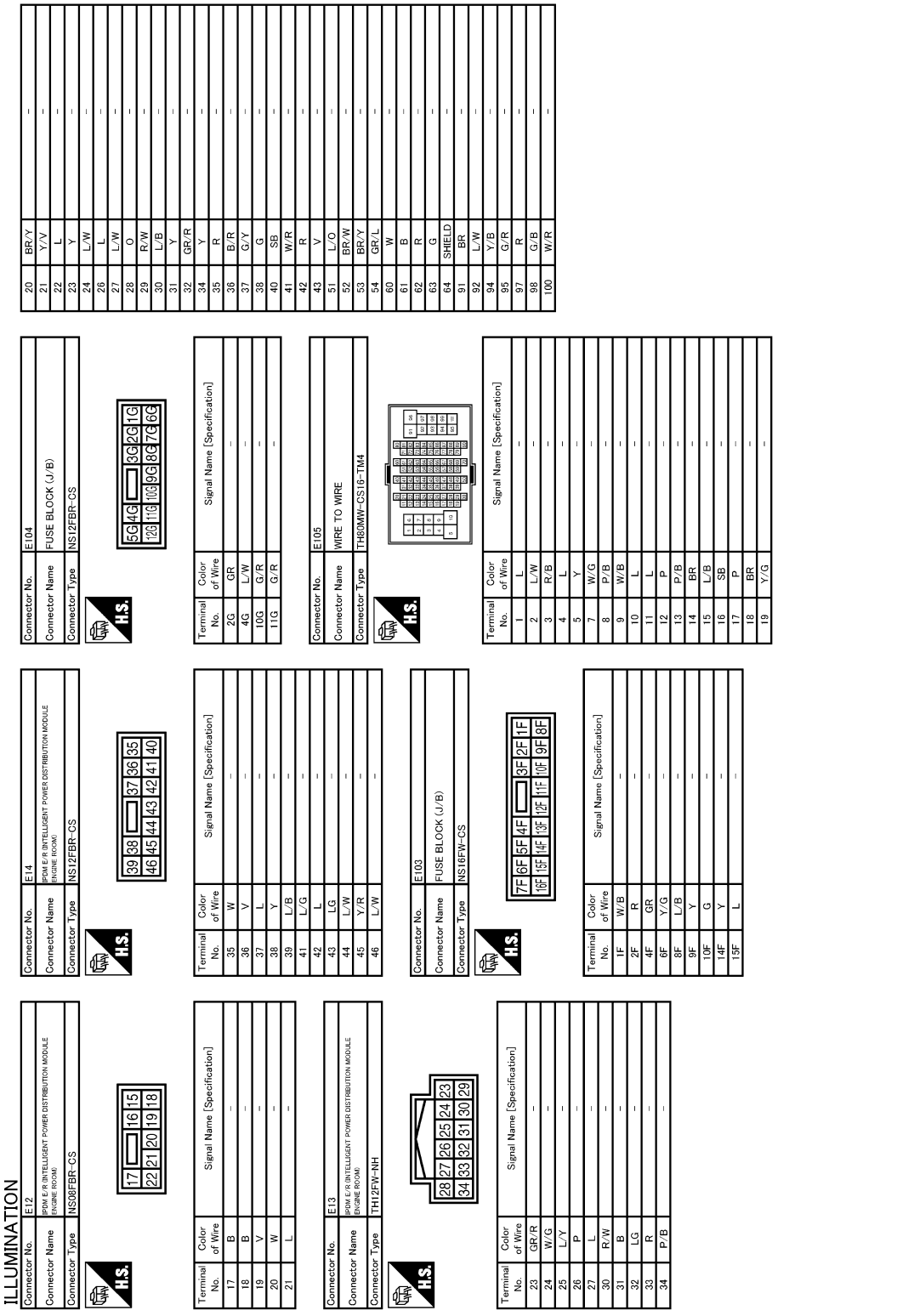
ILLUMINATION
Connector No. E12
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type NS08FBR-CS
H.S.
17 16 15
22 21 20 19 18
Terminal No. Color of Wire Signal Name [Specification]
17 B –
18 B –
19 V –
20 W –
21 L –
Connector No. E13
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type TH12FW-NH
H.S.
28 27 26 25 24 23
34 33 32 31 30 29
Terminal No. Color of Wire Signal Name [Specification]
23 GR/R –
24 W/G –
25 L/Y –
26 P –
27 L –
30 R/W –
31 B –
32 LG –
33 R –
34 P/B –
Connector No. E14
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type NS12FBR-CS
H.S.
39 38 37 36 35
46 45 44 43 42 41 40
Terminal No. Color of Wire Signal Name [Specification]
35 W –
36 V –
37 L –
38 Y –
39 L/B –
41 L/G –
42 L –
43 LG –
44 L/W –
45 Y/R –
46 L/W –
Connector No. E103
Connector Name FUSE BLOCK (J/B)
Connector Type NS16FW-CS
H.S.
7F 6F 5F 4F 3F 2F 1F
15F 14F 13F 12F 11F 10F 9F 8F
Terminal No. Color of Wire Signal Name [Specification]
1F W/B –
2F R –
4F GR –
6F Y/G –
8F L/B –
9F Y –
10F G –
14F Y –
15F L –
Connector No. E104
Connector Name FUSE BLOCK (J/B)
Connector Type NS12FBR-CS
H.S.
5G 4G 3G 2G 1G
12G 11G 10G 9G 8G 7G 6G
Terminal No. Color of Wire Signal Name [Specification]
2G GR –
4G L/W –
10G G/R –
11G G/R –
Connector No. E105
Connector Name WIRE TO WIRE
Connector Type TH80MW-CS16-TM4
H.S.
Terminal No. Color of Wire Signal Name [Specification]
1 L –
2 L/W –
3 R/B –
4 L –
5 Y –
7 W/G –
8 P/B –
9 W/B –
10 L –
11 L –
12 P –
13 P/B –
14 BR –
15 L/B –
16 SB –
17 P –
18 BR –
19 Y/G –
20 BR/Y –
21 Y/V –
22 L –
23 Y –
24 L/W –
26 L –
27 L/W –
28 O –
29 R/W –
30 L/B –
31 Y –
32 GR/R –
34 Y –
35 R –
36 B/R –
37 G/Y –
38 G –
40 SB –
41 W/R –
42 R –
43 V –
51 L/O –
52 BR/W –
53 BR/Y –
54 GR/L –
60 W –
61 B –
62 R –
63 G –
64 SHIELD –
91 BR –
92 L/W –
94 Y/B –
95 G/R –
97 R –
98 G/B –
100 W/R –
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ILLUMINATION

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1A	Y	–
2A	GR	–
3A	W	–
4A	Y/G	–
5A	V	–
6A	L/W	–
7A	LG	–
8A	W	–

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1B	R	–
3B	R	–
4B	B	–
5B	BR	–
6B	Y	–
7B	G	–
8B	L/O	–
10B	W/B	–

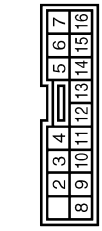
Connector No.	M6
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	–
2	B	–
3	L/O	–
4	B	–

Connector No.	M8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–
3	GR/B	–
4	V/W	–
5	GR/R	–
6	Y/G	–
8	O	–
9	LG	–
10	W/B	–
11	G/O	–
12	V	–
13	B	–
14	O/L	–
15	B	–
16	L/O	–

Connector No.	M17
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/G	POWER
2	P/B	OUTPUT
3	B/Y	GND

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ILLUMINATION

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–
3	BR	–
5	R/W	–
6	L	–
7	V	–
9	G	–
11	W/B	–
12	BR	–
13	G/R	–
14	B/Y	–
15	W/R	–
16	GR/R	–
18	G/W	–
19	V	–
20	W/G	–
21	B/W	–
22	V	–
23	SHIELD	–
24	G	–
25	O	–
26	Y	–
27	L/O	–
28	Y/R	–
29	L	–
30	R	– [With ICC]
30	P	– [Without ICC]
31	G/Y	–
32	B/SB	–
33	LG/R	–
34	BR/W	–
35	GR/R	–
36	SB	–
37	LG	–
38	L	–
39	P	–
40	W/G	–
42	G/R	–
43	V/W	–
44	LG/B	–
45	R/Y	–
46	B	–
49	GR	–
50	R/B	–
51	W/R	–
52	BR/Y	–
53	O/B	–
54	G/O	–
55	R/B	–
56	LG/R	–
57	GR/R	–
58	Y/G	–
59	V/W	–
60	R	–
63	Y	–
64	R	–
65	W	–
66	G	–
67	B	–
68	SHIELD	–
69	LG/B	–
70	P/L	–
71	L	–
72	R	–
77	Y/B	–
78	Y/L	–
79	Y	–
80	W/R	–
81	Y/L	–
83	BR/W	–
84	L/O	–
86	O	–
87	W/R	–
88	O	–
89	W/L	–
90	GR/L	–
91	W	–
92	G	–
94	W/R	–
96	L/W	–
97	R	–
98	V	–
99	L/W	–
100	P/B	–

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	W	–
3	V	–
4	Y	–
5	LG/R	–
6	BR/W	–
8	V	–
9	G	–
10	L	–
11	L/O	–
13	Y	–
14	R	–
15	B	–
18	B	–
19	R	–
20	P	–
22	V	–
23	P/B	–
25	BR/W	–
26	W/R	–
28	W/G	–
33	V/W	–
36	W/B	–
37	BR/Y	–
38	SB	–
39	W/L	–
40	L/W	–
41	Y/G	–
42	P/L	–
43	LG	–
44	SHIELD	–
45	G	–
46	W	–
47	O	–
48	G/W	–
49	Y	–
50	L/Y	–
51	GR/R	–
52	LG/B	–
53	Y	–
54	B	–
55	R	–

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ILLUMINATION

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	W	–
3	V	–
5	P/L	–
6	L/R	–
8	L/W	–
9	G/Y	–
10	L	–
11	L/W	–
13	L	–
14	R	–
15	B	–
18	B/W	–
19	R	–
20	P	–
22	Y/R	–
23	LG/B	–
25	W/R	–
26	W/R	–
36	G/O	–
37	Y/B	–
38	V	–
39	W/L	–
40	L/O	–
44	SHIELD	–
45	Y	–
46	W	–
47	LG	–
48	L/R	–
49	Y	–
50	R/B	–
52	LG	–
53	G	–
54	B	–
55	R	–

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
4	Y	–
7	B	–
8	Y/L	–
10	B	–
11	R	–
12	Y	–
13	SHIELD	–
14	Y	–
15	W/R	–
16	L/O	–
17	Y	–
20	W	–
22	SB	–
23	Y/R	–
24	SHIELD	–
25	Y/G	–
26	L/O	–
27	W/G	–
28	Y	–
29	L	–
30	B/SB	–
31	BR	–
32	GR/L	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/B	RR
2	GR	OUTPUT 4
3	L/R	FR
4	W	IGN
5	L	OUTPUT 3
6	B	GND
7	W	INPUT 3
8	BR/Y	OUTPUT 5
9	R/W	INPUT 2
10	Y	INPUT 4
11	SB	INPUT 1
12	V	OUTPUT 1
13	LG	INPUT 5
14	G	OUTPUT 2

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK06FY-EX-1V

Terminal No.	Color of Wire	Signal Name [Specification]
23	L/O	–
28	Y	–
29	Y/G	–
30	Y/R	–

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

Terminal No.	Color of Wire	Signal Name [Specification]
24	Y/G	–
25	Y	–
26	B	–
31	Y/L	–
32	R	–
33	B	–
34	P/B	–

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ILLUMINATION

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	GR	IGNITION SIGNAL
3	B	GROUND
4	B	GROUND
5	B	ILL GND
7	R	TOW MODE SIGNAL
8	P/L	TRIP RESET SWITCH SIGNAL
11	G	ENTER SWITCH SIGNAL
12	O	SELECT SWITCH SIGNAL
13	W/R	ILLUMINATION CONTROL SWITCH SIGNAL (+)
14	R	ILLUMINATION CONTROL SWITCH SIGNAL (-)
15	R/W	AIR BAG SIGNAL
18	W/R	AMBIENT SENSOR SIGNAL
19	V/W	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	B	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	V	FUEL LEVEL SENSOR GROUND
25	O/L	ALTERNATOR SIGNAL
26	W	PARKING BRAKE SWITCH SIGNAL
28	GR/R	SECURITY SIGNAL
29	BR	WASHER LEVEL SWITCH SIGNAL
30	SB	VEHICLE SPEED SIGNAL (2-PULSE)
31	BR/W	VEHICLE SPEED SIGNAL (8-PULSE)
33	W	SNOW MODE SIGNAL
34	BR/Y	FUEL LEVEL SENSOR SIGNAL
35	O/B	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
36	G/Y	PASSENGER SEAT BELT WARNING SIGNAL
37	R/Y	NON-MANUAL MODE SIGNAL
38	L/W	MANUAL MODE SHIFT DOWN SIGNAL
39	Y/B	MANUAL MODE SHIFT UP SIGNAL
40	G/W	MANUAL MODE SIGNAL

Connector No.	M36
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW

H.S.

1	2

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	–
2	B	–

Connector No.	M38
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW

H.S.

1	2	3	8
4	5	6	7

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG/R	–
2	G/Y	–
3	B/SB	–
4	BR/W	–
5	GR/R	–
6	B	–
7	L/W	–
8	B/O	–

Connector No.	M39
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR

H.S.

1	2	3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/SB	–
2	GR	–
3	P/L	–
4	R/Y	–
5	BR	–
6	B	–
7	L/W	–
8	B/O	–

Connector No.	M41
Connector Name	REAR A/C CONTROL
Connector Type	TH12FW-NH

H.S.

1	2	4	5	6
7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
5	L/W	ILL+
6	B/O	ILL–
9	W	RR CONT RX
10	O/L	RR CONT TX
12	GR/L	IGN

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW

H.S.

3	1	2	4

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	W	–
3	L/O	–
4	B	–

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ILLUMINATION

Connector No.	M48
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y/G	BATTERY
3	GR/L	IGNITION SIGNAL
4	V	ACC
5	L/W	ILLUMINATION SIGNAL
6	BR/W	VEHICLE SPEED SIGNAL (8-PULSE)
7	P	REVERSE SIGNAL
9	B/O	CONTROL SIGNAL
13	B/O	CONTROL SIGNAL
17	SB	AV COMM (H)
18	LG	AV COMM (L)
23	LG	AUXILIARY INFRARED LED (+)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	SHIELD
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	Y	REAR CAMERA COMM
36	R	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	W	REAR CAMERA GND
39	G	REAR CAMERA IMAGE SIGNAL
40	B	REAR CAMERA IMAGE GND

Connector No.	M52
Connector Name	HEATED STEERING WHEEL SWITCH
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B/O	–
3	L/W	–
4	B	–
5	BR	–
6	B	–

Connector No.	M54
Connector Name	4WD SWITCH ASSEMBLY
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	VDC OFF SW
9	W/R	AUTO SW
10	R	4H SW
11	V	4L SW
12	GR	BAT
13	L/W	LIGHT SW
14	B/O	ILL CONT
20	B	GND
22	W	SNOW SW
23	R	TOW

Connector No.	M57
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/W	–
2	L/W	–
3	Y/B	–
4	B/SB	–
5	R/Y	–
9	L/W	–
10	B	–
11	L/R	–
12	B	–
13	R/B	–
14	G/Y	–

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR/Y	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	L	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	V	COMBI SW INPUT 1
8	V	POWER WINDOW SW COMM
9	R	STOP LAMP SW 1
11	R	L&R SENSOR SERIAL LINK
14	P/B	OPTICAL SENSOR
16	L/O	DIMMER SIGNAL
17	Y/G	SENSOR PWR SPLY

18	B/Y	RECEIVER/SENSOR GND
19	BR	RECEIVER PWR SPLY
20	G/R	KYLS ENT RECEIVER COMM
21	P	NATS ANT AMP.
22	W/B	KYLS ENT RECEIVER RSSI
23	GR/R	SECURITY IND CONT
24	SB	DONGLE LINK
25	LG/R	NATS ANT AMP.
29	W	HAZARD SW
30	W/L	BK DOOR OPNR SW
31	W/G	DR DOOR UNLOCK SENSOR
32	LG	COMBI SW OUTPUT 5
33	Y	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R/W	COMBI SW OUTPUT 2
36	SB	COMBI SW OUTPUT 1
37	G/Y	SHIFT P
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FB-FHA6-SA

Terminal No.	Color of Wire	Signal Name [Specification]
43	Y/L	BK DOOR SW
44	G/W	REAR WIPER STOP POSITION
45	W	PASSENGER DOOR SW
46	GR	REAR RH DOOR SW
47	GR/R	DRIVER DOOR SW
48	O	REAR LH DOOR SW
49	BR/Y	LUGGAGE ROOM LAMP CONT
51	W/R	BACK DOOR REQ SW
54	L	REAR WIPER OUTPUT
55	G	PASS, REAR DOOR UNLK OUTPUT

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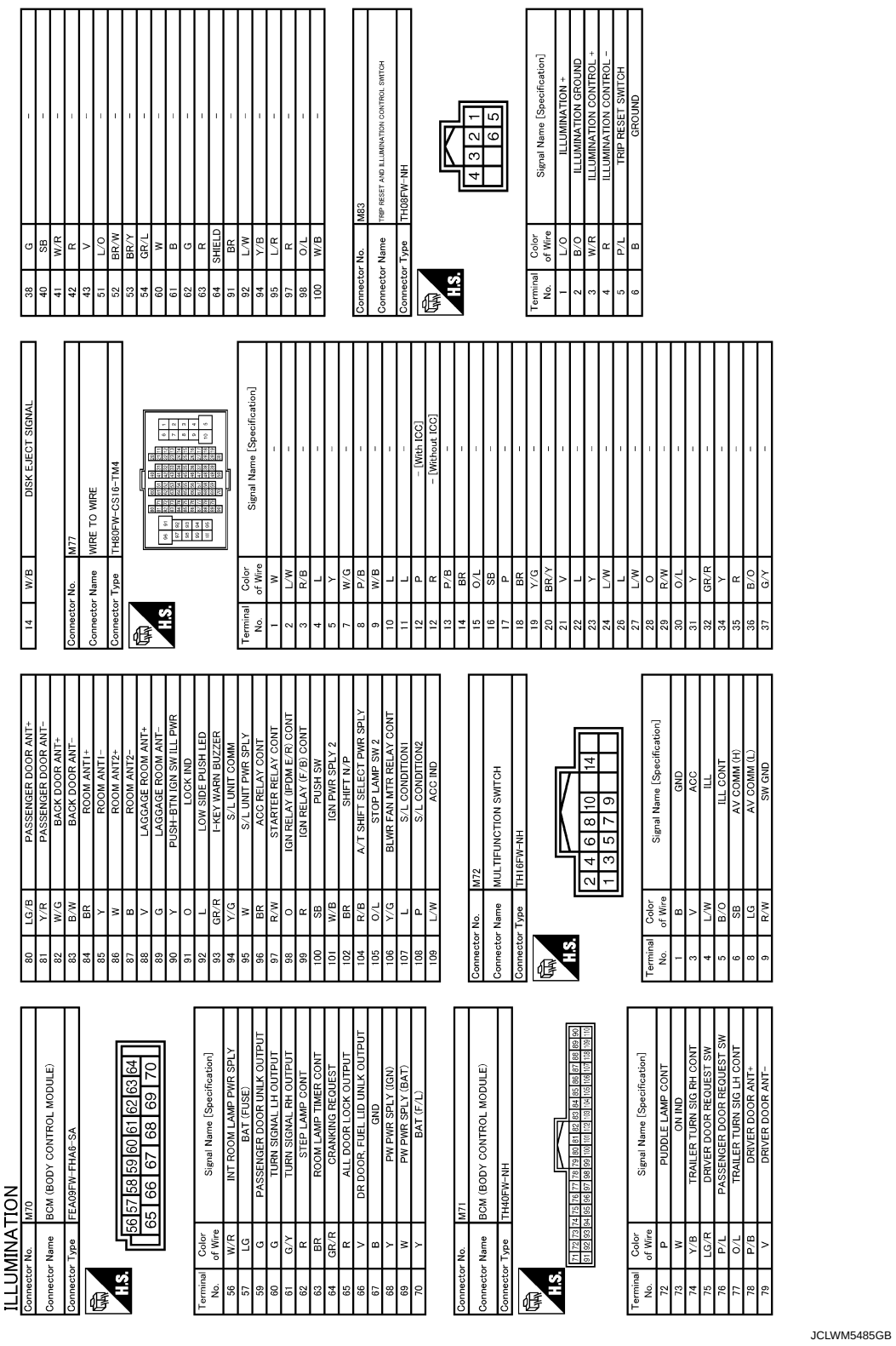

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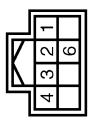
ILLUMINATION

Connector No.	M84
Connector Name	TRIP COMPUTER SWITCH
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	ILLUMINATION +
2	B	ILLUMINATION GROUND
3	G	ENTER SWITCH
4	O	SELECT SWITCH
6	B	GROUND

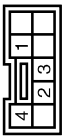
Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	B	–
3	Y	–
4	SB	–
5	O	–
6	L/W	–
7	W	–
8	LG	–

Connector No.	M110
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TK08FW

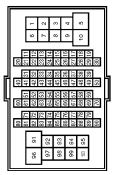
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	B	–
3	B	–
4	L/O	–

Connector No.	M111
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

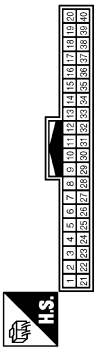


Terminal No.	Color of Wire	Signal Name [Specification]
1	R/B	–
2	G	–
3	W/R	–
5	W/B	–
6	L/Y	–
7	R	–
8	G/R	–
9	GR/R	–
11	W	–
12	V	–
13	Y	–
16	L/O	–
17	GR/L	–
18	R/G	–
19	L/Y	–
20	G/Y	–
21	R	–
22	GR	–

27	L/O	–
29	SB	–
30	R/L	–
31	Y/L	–
32	W/R	–
33	W/G	–
34	L/R	–
39	P/B	–
40	W/R	–
41	R	–
42	L/W	–
43	B/W	–
51	O/L	–
52	L/R	–
53	SB	–
54	V/W	–
59	L	–
60	GR	–
61	P/L	–
62	B/SB	–
63	R/Y	–
64	BR	–
70	O	–
71	G/R	–
72	SHIELD	–
73	G/O	–
74	G/Y	–
77	SB	–
78	LG	–
79	R/B	–
90	W/B	–
93	Y	–
94	L	–
95	L/R	–
96	R	–
97	W	–
98	V	–
99	L/W	–
100	W	–

Connector No.	M119
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	–
2	SB	–
3	L	–
4	W/B	–
5	SHIELD	–
6	LG	–
7	V	–
8	W	–
9	O	–
10	SHIELD	–
11	W/L	–
17	W	–
18	G/R	–
21	LG	–
22	LG	–
23	P	–
24	R/W	–
25	L/O	–
26	GR/L	–
27	W	–
28	V	–
29	BR/W	–
30	Y/G	–
31	Y/L	–
32	B	–
37	SHIELD	–
38	GR/R	–

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ILLUMINATION

Connector No.	M126
Connector Name	TRIPLE SWITCH
Connector Type	TH12FL-NH

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	–
4	GR/R	–
6	L/O	–
7	B/O	–

Connector No.	M127
Connector Name	TWIN SWITCH
Connector Type	TH12FGY-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/B	–
2	V/W	–
3	B	–
5	L/O	–
6	B/O	–
8	W/G	–
9	LG/B	–

Connector No.	M131
Connector Name	FRONT HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	–
2	L	–
3	BR	–
4	B	–
5	L/W	–
6	B/O	–

Connector No.	M132
Connector Name	FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS06FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	–
2	L/Y	–
3	R/B	–
4	B	–
5	L/W	–
6	B/O	–

Connector No.	M133
Connector Name	SECOND HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	–
2	V	–
3	L/W	–
4	B	–
5	L/W	–
6	B/O	–

Connector No.	M134
Connector Name	SECOND HEATED SEAT SWITCH RH
Connector Type	NS06FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G/R	–
2	W	–
3	L/R	–
4	B	–
5	L/W	–
6	B/O	–

Connector No.	M136
Connector Name	CLOCK
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BAT
2	B	GND
3	L/W	ILLUMINATION (+)
4	B/O	ILLUMINATION (–)

Connector No.	M137
Connector Name	SECOND SEAT POWER UNLOCK SWITCH LH
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	P/B	–
3	L/W	–
4	B	–

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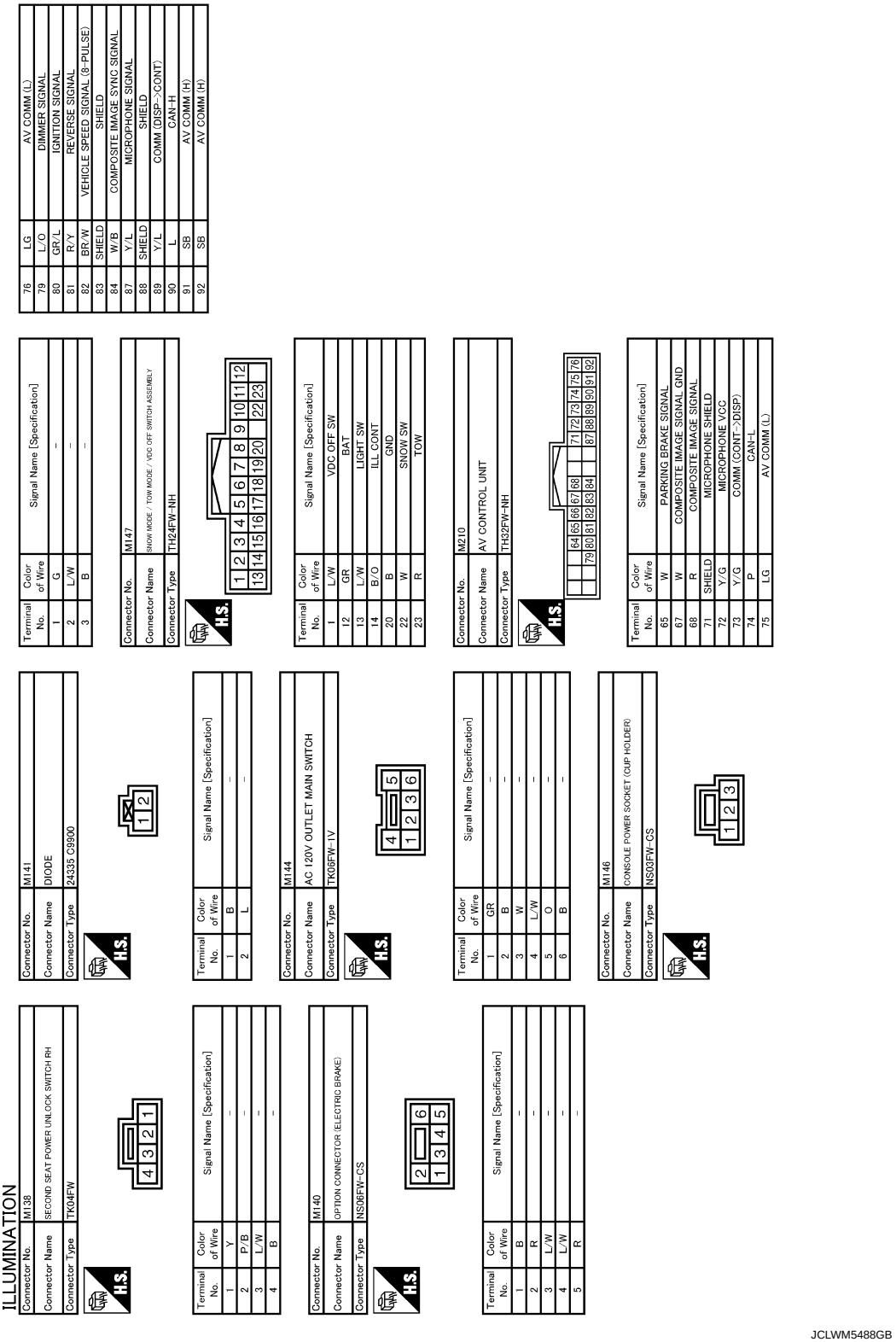

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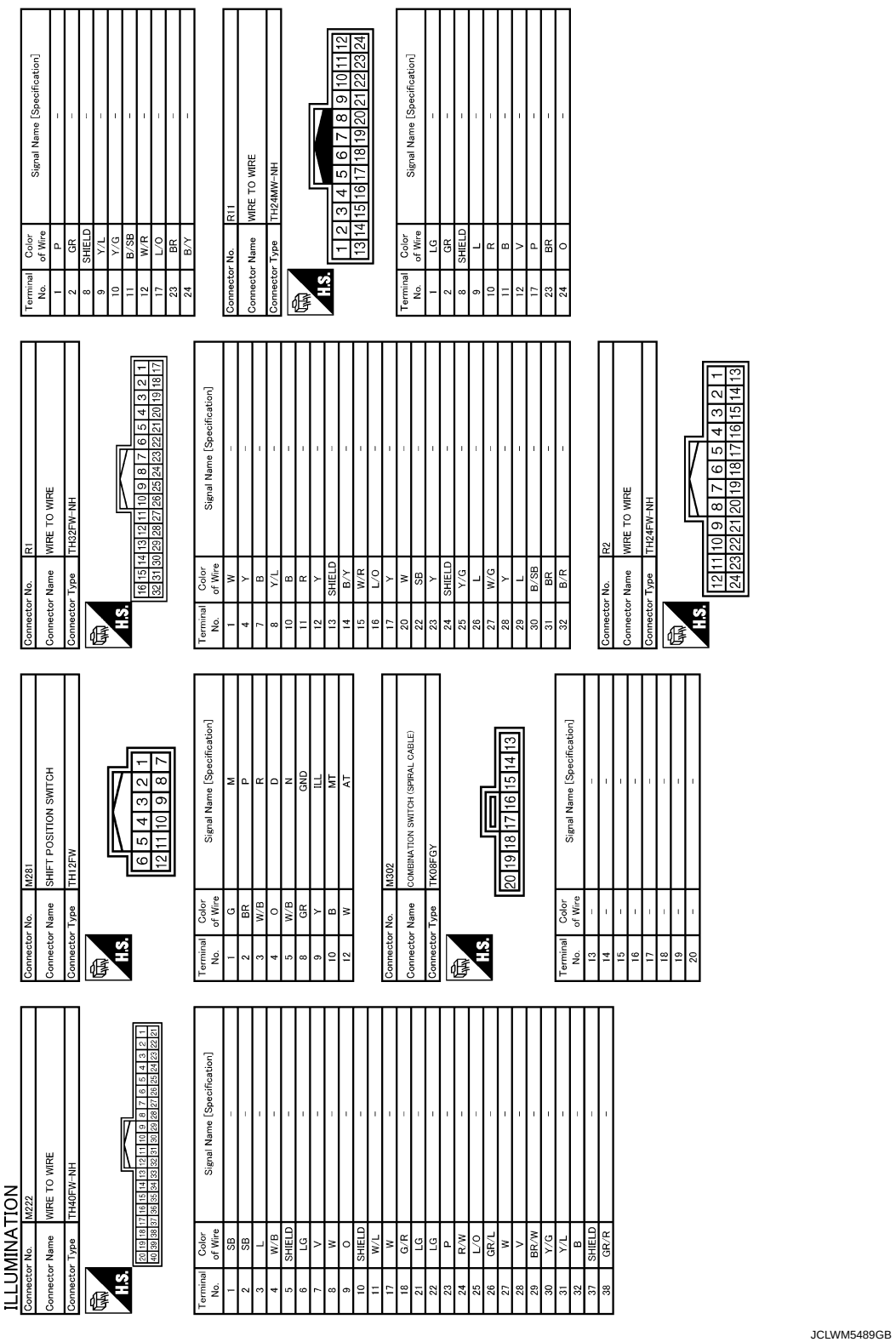

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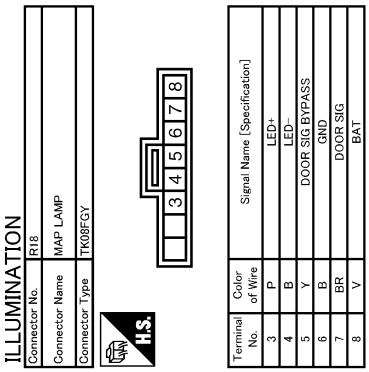

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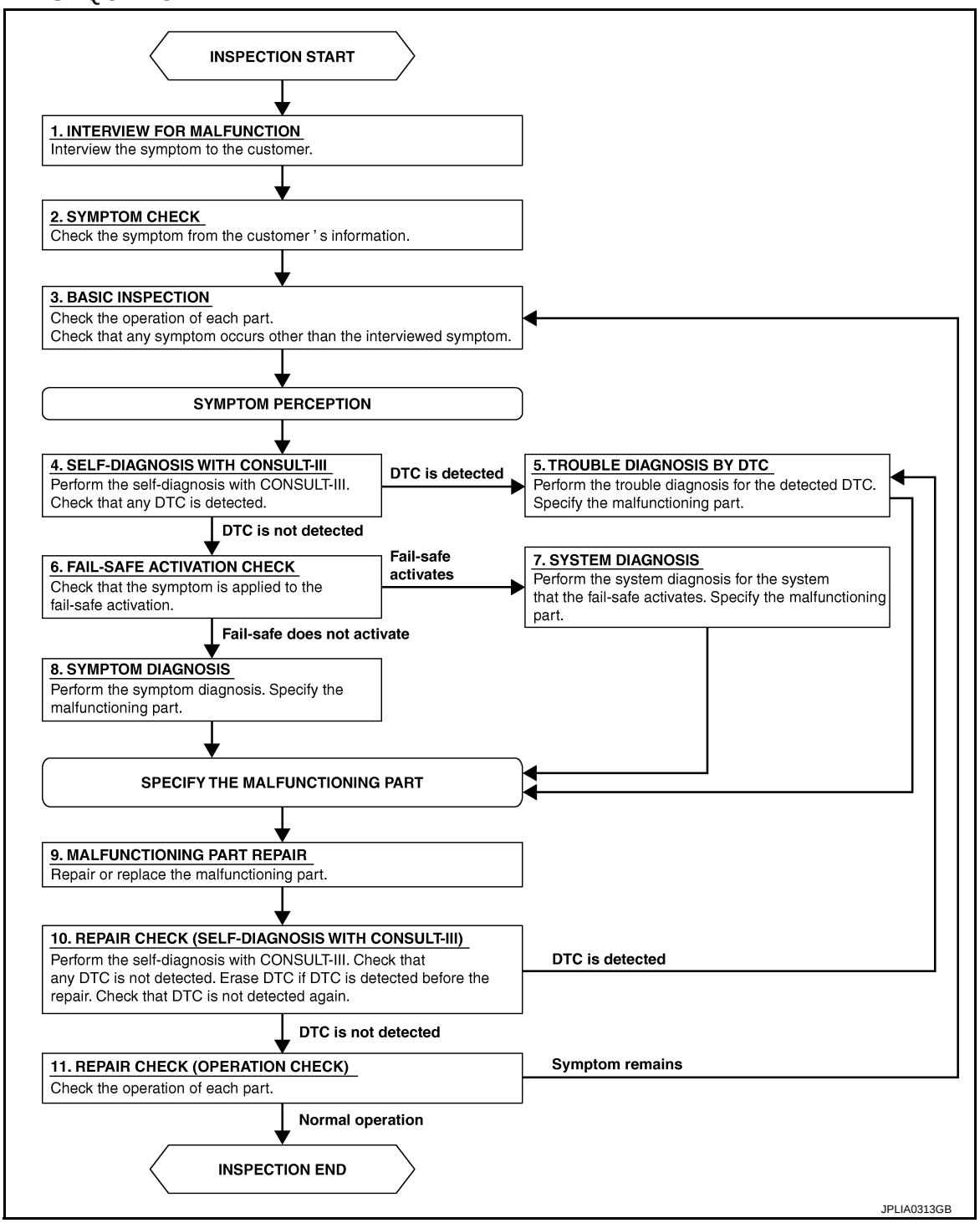
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000006216064

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

>> GO TO 2.

2.SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

Check the operation of each part. Check that any symptom occurs other than the interviewed symptom.

>> GO TO 4.

4.SELF-DIAGNOSIS WITH CONSULT-III

Perform the self-diagnosis with CONSULT-III. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 6.

5.TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6.FAIL-SAFE ACTIVATION CHECK

Check that the symptom is applied to the fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.
NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

Perform the system diagnosis for the system that the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9.MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT-III)

Perform the self-diagnosis with CONSULT-III. Check that any DTC is not detected. Erase DTC if DTC is detected before the repair. Check that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 11.

11.REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END
NO >> GO TO 3.

DTC/CIRCUIT DIAGNOSIS

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000006216065

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

Component Function Check

INFOID:0000000006216066

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Turn each interior room lamp ON.
- Personal lamp
- Map lamp
- Foot lamp
- Luggage room lamp
- Automatic back door close switch illumination
- Step lamp
- Puddle lamp
- Vanity mirror lamp
3. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
4. With operating the test items, check that each interior room lamp turns ON/OFF.

Off : Interior room lamp OFF
On : Interior room lamp ON

Does the interior room lamp turn ON/OFF?

YES >> Interior room lamp power supply circuit is normal.
NO >> Refer to INL-56, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006216067

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- Personal lamp
- Map lamp
- Foot lamp (both sides)
- Luggage room lamp
- Automatic back door close switch illumination
- Step lamp (ALL)
- Puddle lamp (both sides)
- Vanity mirror lamp (both sides)
3. Turn ignition switch ON.
4. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
5. With operating the test item, check voltage between BCM harness connector and ground.

BCM (+)		(–)	Test item		Voltage (Approx.)
Connector	Terminal				
M70	56	Ground	BATTERY SAVER	Off	0 V
				On	12 V

Is the inspection result normal?

YES >> GO TO 2.
NO >> GO TO 3.

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

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

BCM		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M70	56	Personal lamp	R21	3	Existed
		Map lamp	R18	8	
		Foot lamp (driver side)	M89	1	
		Foot lamp (passenger side)	M90	2	
		Luggage room lamp	B11	2	
		Automatic back door close switch	D158	3	
		Step lamp (driver side)	D8	1	
		Step lamp (passenger side)	D29	1	
		Step lamp (Rear LH)	D66	1	
		Step lamp (Rear RH)	D46	1	
		Puddle lamp (driver side)	D3	2	
		Puddle lamp (passenger side)	D23	2	
		Vanity mirror lamp (driver side)	R12	2	
		Vanity mirror lamp (passenger side)	R13	2	
		Foot lamp (Rear LH)	B479	65	
		Foot lamp (Rear RH)	B480	65	

Is the inspection result normal?

YES >> Check for internal short circuit of each interior room lamp.
NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M70	56		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".
NO >> Repair or replace harnesses.

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000006216068

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:0000000006216069

CAUTION:
Before performing the diagnosis, check that the following are normal.
- **Interior room lamp power supply**
- **Map lamp bulb**
- **Personal lamp bulb**
- **Foot lamp bulb**

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Switch the map lamp switch and personal 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-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006216070

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Switch the map lamp switch and personal lamp switch to DOOR.
2. Turn ignition switch OFF.
3. Remove all the bulbs of map lamp, foot lamp and personal lamp.
4. Turn ignition switch ON.
5. Select “INT LAMP” of BCM (INT LAMP) active test item.
6. With operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item		Continuity
Connector	Terminal				
M70	63		INT LAMP	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM. Refer to BCS-81, "Removal and Installation".

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

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

BCM		Foot lamp			Continuity
Connector	Terminal	Connector		Terminal	
M70	63	Driver side	M89	2	Existed
		Passenger side	M90	1	
		Rear LH	B479	66	
		Rear RH	B480		

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

BCM		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M70	63	R18	7	Existed

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

Personal lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
R21	2	R18	5	Existed

Is the inspection result normal?

YES >> Replace map lamp, personal lamp or foot lamp.
NO >> Repair or replace harnesses.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M70	63		Not existed

4. Check continuity between personal lamp harness connector and ground.

Personal lamp		Ground	Continuity
Connector	Terminal		
R21	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".
NO >> Repair or replace harnesses.

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:0000000006216071

Controls the luggage room lamp and automatic back door close switch illumination (ground side) to turn the luggage room lamp and automatic back door close switch illumination ON and OFF.

Diagnosis Procedure

INFOID:0000000006216072

CAUTION:
Before performing the diagnosis, check that the following are normal.
- **Interior room lamp power supply**
- **Luggage room lamp bulb**

1.CHECK LUGGAGE ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the luggage room bulb.
3. Disconnect automatic back door close switch connector.
4. Check continuity between BCM harness connector and ground.

BCM		Ground	Condition		Continuity
Connector	Terminal				
M69	49		Back door	Open	Existed
				Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM. Refer to BCS-81, "Removal and Installation".

2.CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

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

BCM		Luggage room lamp		Continuity
Connector	Terminal	Connector	Terminal	
M69	49	B11	1	Existed

3. Check continuity between BCM harness connector and automatic back door close switch harness connector.

BCM		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
M69	49	D158	4	Existed

Is the inspection result normal?

YES >> Replace luggage room lamp or automatic back door close switch.
NO >> Repair or replace harnesses.

3.CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M69	49		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harnesses.

STEP LAMP CIRCUIT

Description

INFOID:0000000006216073

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

Component Function Check

INFOID:0000000006216074

CAUTION:
Before performing the diagnosis, check that the following is normal.
- **Interior room lamp power supply**
- **Step lamp bulb**

1.CHECK STEP LAMP OPERATION

CONSULT-III 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-62, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006216075

1.CHECK STEP LAMP OUTPUT

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

BCM		Ground	Test item		Continuity
Connector	Terminal				
M70	62		STEP LAMP TEST	On	Existed
				Off	Not existed

Is the inspection result normal?

YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM. Refer to BCS-81, "Removal and Installation".

2.CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M70	62	Driver side	D8	2	Existed
		Passenger side	D29		
		Rear LH	D66		
		Rear RH	D46		

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. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M70	62		Not existed

Is the inspection result normal?

YES >> Repair or replace harnesses.
NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

PUDDLE LAMP CIRCUIT

Description

INFOID:0000000006216076

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

Diagnosis Procedure

INFOID:0000000006216077

CAUTION:

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

- **Interior room lamp power supply**

1.CHECK PUDDLE LAMP OUTPUT

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

BCM		Ground	Condition		Continuity
Connector	Terminal				
M71	72		Any door (except back door)	Open	Existed
				Closed	Not existed

Is the inspection result normal?

YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM. Refer to BCS-81, "Removal and Installation".

2.CHECK PUDDLE LAMP OPEN CIRCUIT

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

BCM		Puddle lamp			Continuity
Connector	Terminal	Connector		Terminal	
M71	72	Driver side	D3	14	Existed
		Passenger side	D23		

Is the inspection result normal?

YES >> Replace puddle lamp.
NO >> Repair or replace harnesses.

3.CHECK PUDDLE LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M71	72		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".
NO >> Repair or replace harnesses.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Component Function Check

INFOID:0000000006265016

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT-III ACTIVE TEST
1. Turn the ignition switch ON.
2. Select “ENGINE SW ILLUMI” of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that the push-button ignition switch illumination turns ON/OFF.

On : Push-button ignition switch illumination ON
Off : Push-button ignition switch illumination OFF

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

YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to INL-65, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000006265017

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

1. Turn ignition switch OFF.
2. Lighting switch OFF.
3. Disconnect push-button ignition switch connector.
4. Check voltage between push-button ignition switch harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Push-button ignition switch					
Connector	Terminal				
M101	3	Ground	Push-button ignition switch illumination	ON Condition	12 V
				OFF Condition	0 V

Is the inspection result normal?

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

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

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

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M71	90	M101	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.

BCM		Ground	Continuity
Connector	Terminal		
M71	90		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-81, "Removal and Installation".

NO >> Repair or replace harnesses.

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

1. Connect push-button ignition switch connector.
2. Check voltage between BCM harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal				
M71	92	Ground	Push-button ignition switch illumination	ON Condition	0 V

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace BCM. Refer to BCS-81, "Removal and Installation".

5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT-2

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

Push-button ignition switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M101	2	M71	92	Existed

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

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M101	2		Not existed

Is the inspection result normal?

YES >> Replace push-button ignition switch.
NO >> Repair or replace harnesses.

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000006216080

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

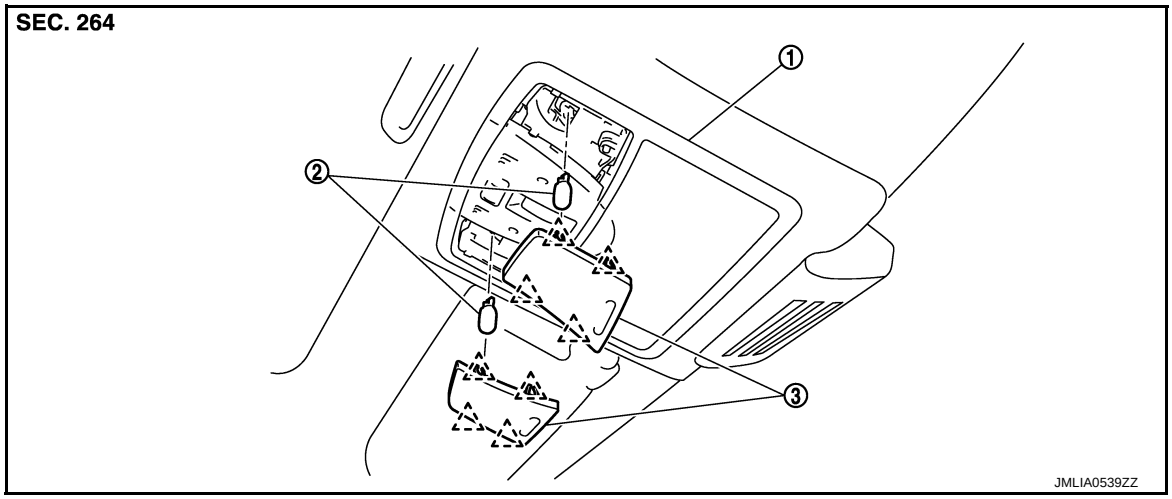
Symptom	Possible cause	Inspection item
All the following lamps do not turn ON. • Map lamp • Personal lamp • Vanity mirror lamp • Foot lamp • Step lamp • Puddle lamp • Luggage room lamp • Automatic back door close switch illumination	• Harness between BCM and each interior room lamp • BCM	Interior room lamp power supply circuit Refer to INL-56, "Component Function Check".
• 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-117, "Component Function Check". Interior room lamp control circuit Refer to INL-58, "Component Function Check".
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-14.
• Puddle lamp does not turn ON even though the door is open. • Puddle lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and puddle lamp • BCM	Door switch circuit Refer to DLK-117, "Component Function Check". Puddle lamp circuit Refer to INL-64, "Diagnosis Procedure".
• Luggage room lamp or automatic back door close switch illumination does not turn ON even though the back door is open. (It turns ON when turning the luggage room lamp ON.) • Luggage room lamp or automatic back door close switch illumination does not turn OFF even though the back door is closed.	• Harness between BCM and back door switch • Harness between BCM and luggage room lamp • Harness between BCM and automatic back door close switch • BCM	Back door switch circuit Refer to DLK-120, "Component Function Check". Luggage room lamp circuit Refer to INL-60, "Diagnosis Procedure".
• 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-117, "Component Function Check". Step lamp circuit Refer to INL-62.
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-65, "Component Function Check".
Interior room lamp battery saver does not activate.	BCM	Replace BCM. Refer to BCS-81, "Removal and Installation".

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000006288640



1. Map lamp assembly
2. Bulb
3. Lens

: Pawl

Removal and Installation

INFOID:0000000006288641

Refer to INT-29, "Removal and Installation" for the map lamp assembly removal and installation.

Replacement

INFOID:0000000006288642

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

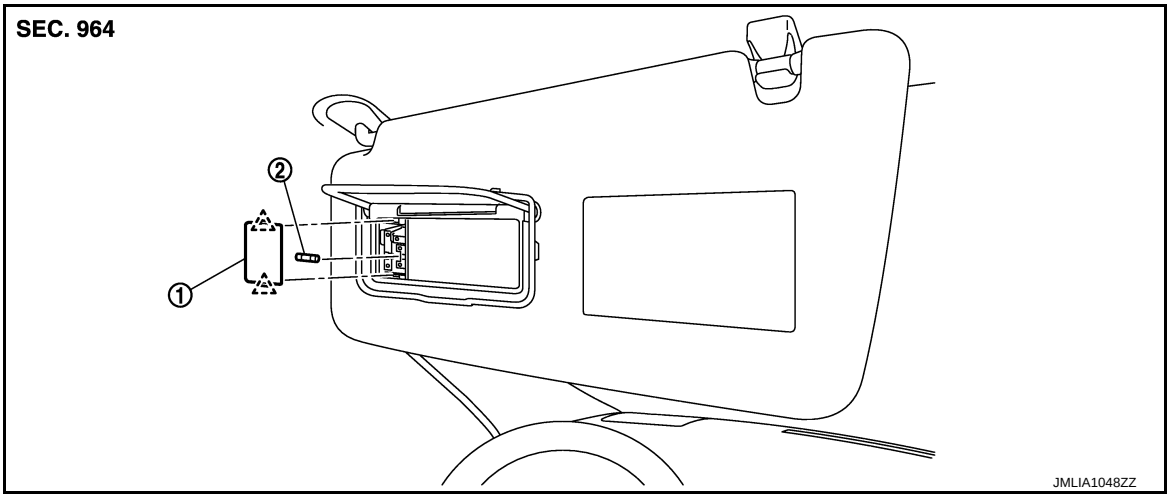
MAP LAMP BULB

1. Insert any appropriate tool into the gap between the lens, and then remove the lens.
2. Remove the bulb.

VANITY MIRROR LAMP

Exploded View

INFOID:0000000006288643



1. Lens
2. Bulb

: Pawl

Replacement

INFOID:0000000006288644

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

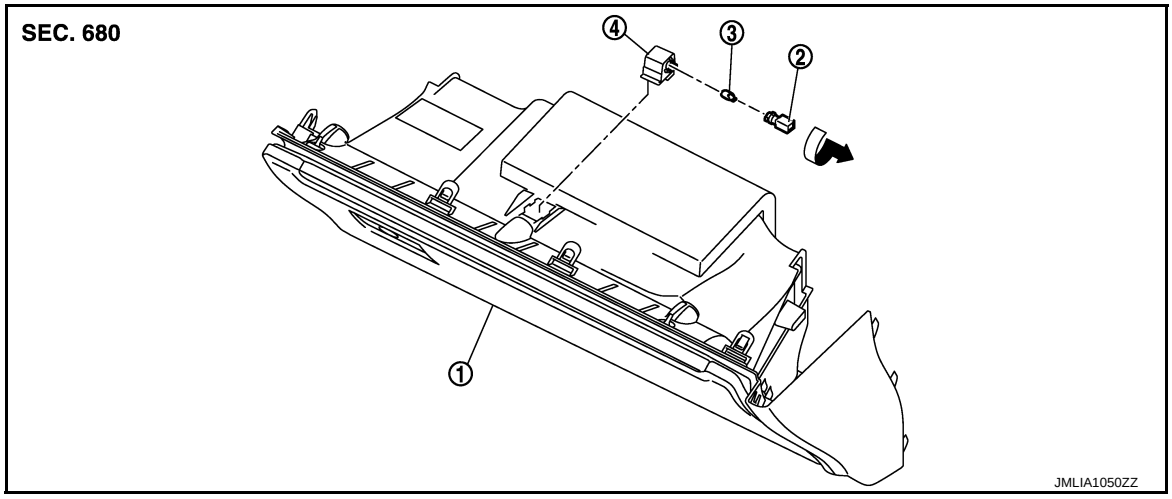
VANITY MIRROR LAMP BULB

1. Insert any appropriate tool into the gap between the lens, and then remove the lens.
2. Remove the bulb.

GLOVE BOX LAMP

Exploded View

INFOID:0000000006288647



1. Glove box assembly
2. Bulb socket
3. Bulb
4. Lamp housing

Replacement

INFOID:0000000006288648

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

GLOVE BOX LAMP BULB

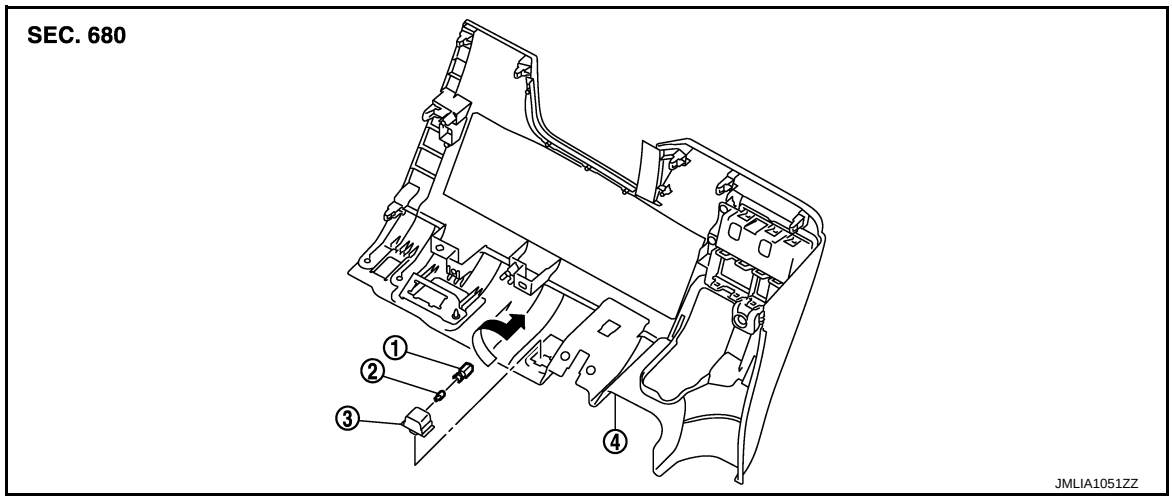
1. Remove glove box assembly. Refer to IP-14, "Removal and Installation".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

FOOT LAMP

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000006288649



1. Bulb socket
2. Bulb
3. Lamp housing
4. Instrument lower panel LH

DRIVER SIDE : Replacement

INFOID:0000000006288650

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

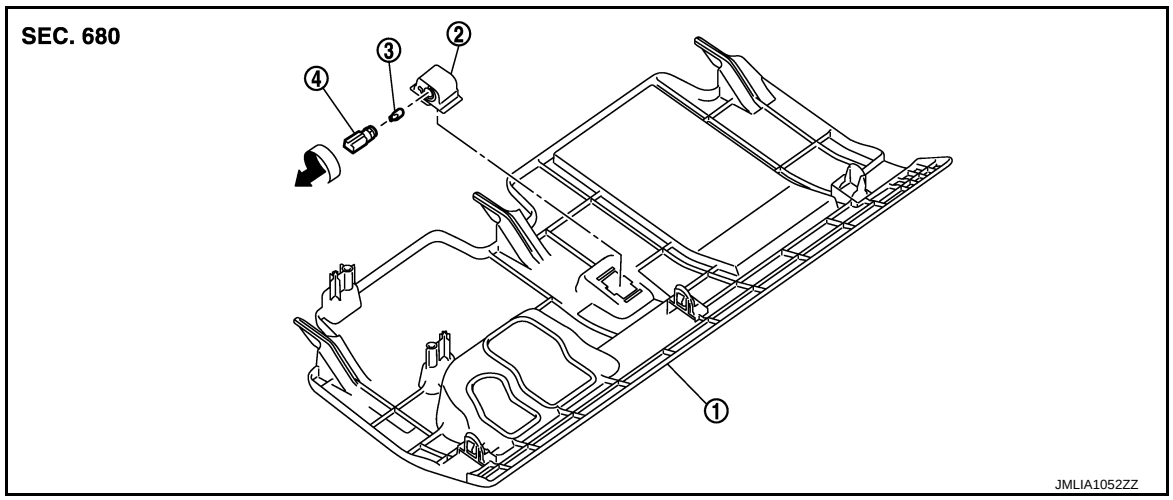
FOOT LAMP BULB (DRIVER SIDE)

1. Remove instrument lower panel LH. Refer to IP-14, "Removal and Installation".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000006288651



1. Instrument lower cover
2. Lamp housing
3. Bulb
4. Bulb socket

PASSENGER SIDE : Replacement

INFOID:0000000006288652

CAUTION:
- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

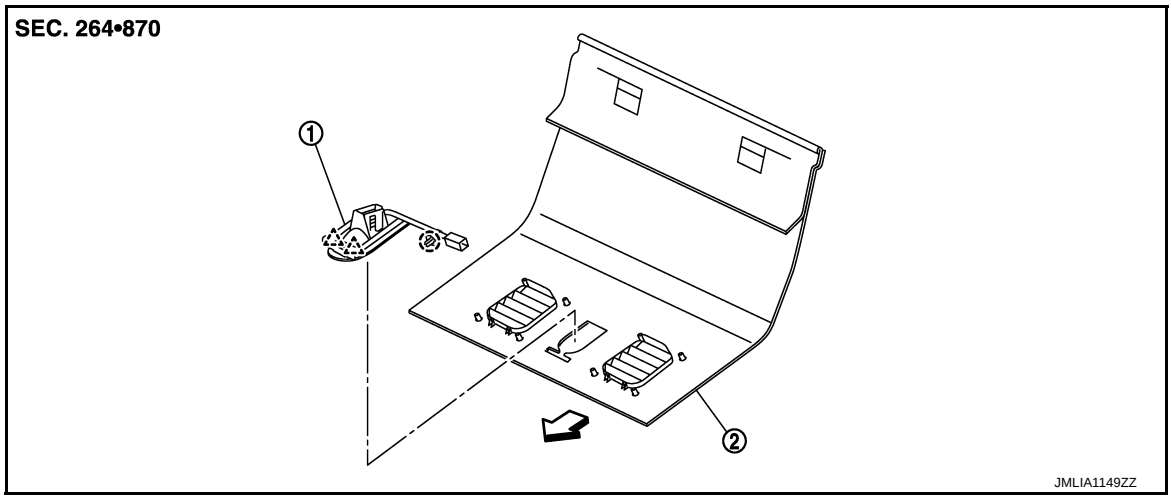
FOOT LAMP BULB (PASSENGER SIDE)

1. Remove instrument lower cover. Refer to IP-14, "Removal and Installation".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

REAR FOOT LAMP

REAR FOOT LAMP : Exploded View

INFOID:0000000006288653



1. Rear foot lamp assembly
2. Seatback lower carpet

: Clip

: Pawl

Vehicle front

REAR FOOT LAMP : Removal and Installation

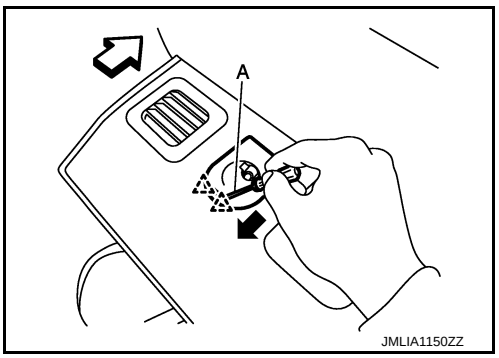
INFOID:0000000006288654

CAUTION:
- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch rear foot lamp assembly directly by hand. Keep grease and other oily substaces away from it.**
- **Never touch rear foot lamp assembly by hand while it is lit or right after it is off.**

REMOVAL

1. Remove seat cushion front finisher. Refer to SE-112, "Removal and Installation".
2. Release seatback lower carpet band from the back of seat cushion frame.
3. Pull seatback lower carpet toward vehicle rear from underside.

4. Disengage rear foot lamp assembly fixing pawls using a small flat-bladed screwdriver (A) as shown by the arrow in the figure.



:Pawl

:Vehicle front

5. Remove rear foot lamp assembly from seatback lower carpet.

INSTALLATION

Note the following items, and install in the reverse order of removal.

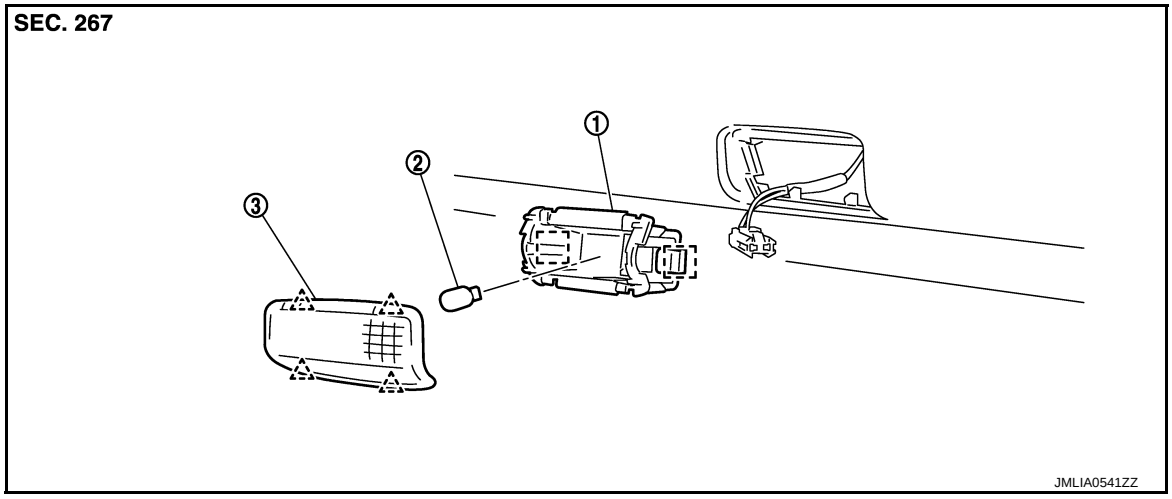
CAUTION:

- **Rear foot lamp cannot be disassembled.**
- **Always replace rear foot lamp as an assembly, when replacing.**

STEP LAMP

Exploded View

INFOID:0000000006288655



1. Step lamp housing
2. Bulb
3. Lens

: Pawl

: Metal clip

Removal and Installation

INFOID:0000000006288656

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000006288657

STEP LAMP BULB

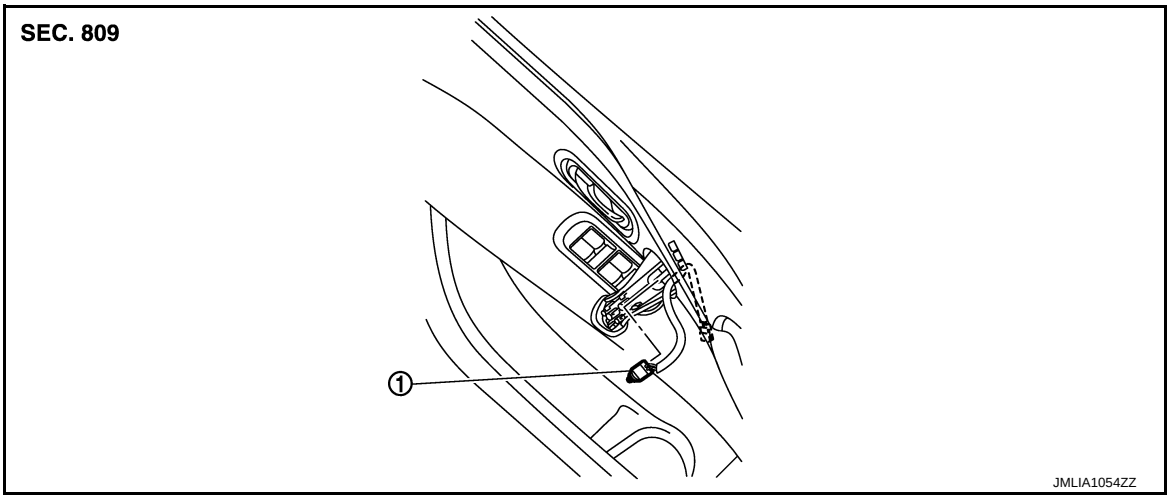
1. Remove the step lamp.
2. Remove the lens.
3. Remove the bulb.

MOOD LAMP

FRONT DOOR ARMREST

FRONT DOOR ARMREST : Exploded View

INFOID:0000000006288658



1. Mood lamp

FRONT DOOR ARMREST : Replacement

INFOID:0000000006288659

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

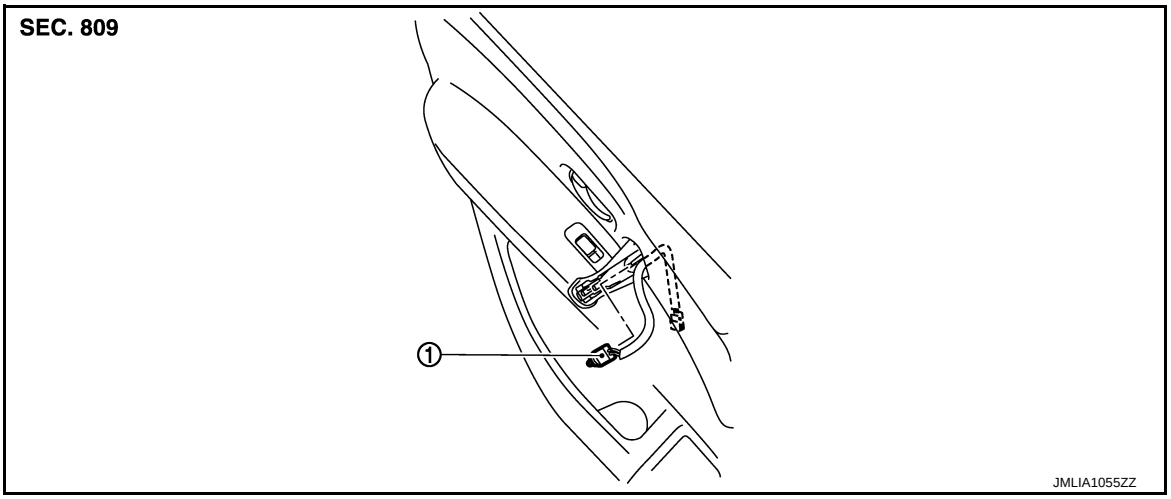
MOOD LAMP

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Remove the mood lamp from front door finisher.

REAR DOOR ARMREST

REAR DOOR ARMREST : Exploded View

INFOID:0000000006288660



1. Mood lamp

REAR DOOR ARMREST : Replacement

INFOID:0000000006288661

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

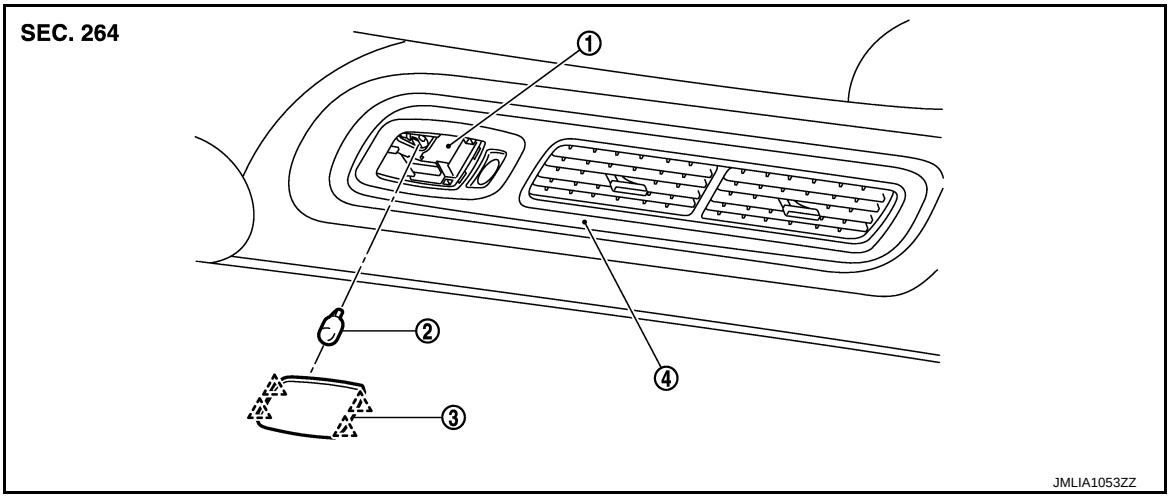
MOOD LAMP

1. Remove rear door finisher. Refer to INT-14, "Removal and Installation".
2. Remove the mood lamp from rear door finisher.

PERSONAL LAMP

Exploded View

INFOID:0000000006288662



1. Personal lamp case
2. Bulb
3. Lens
4. Personal lamp finisher

: Pawl

Removal and Installation

INFOID:0000000006288663

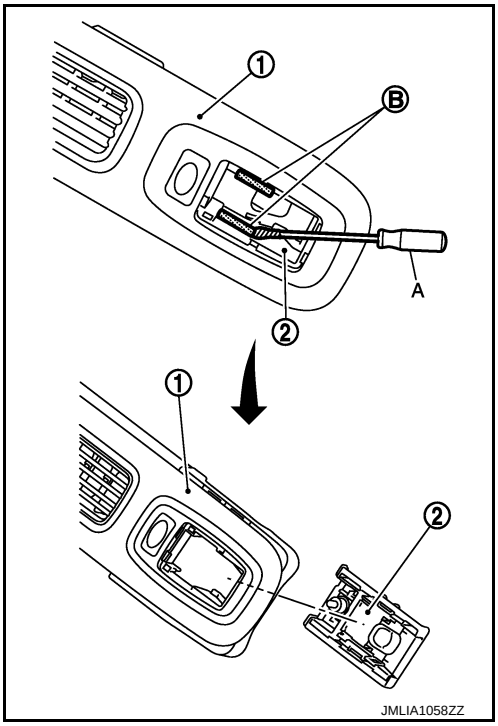
CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**
- **Replace the personal lamp case as a set (LH and RH). After removing the headlining assembly, remove the personal lamp case.**

REMOVAL

1. Remove headlining assembly. Refer to INT-29, "Removal and Installation".

2. Press the pawls (B) on both sides as shown in the figure using a small flat-bladed screwdriver (A), and then pull out personal lamp case (2) from personal lamp finisher (1).



INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000006288664

CAUTION:

- **Disconnect the battery negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after being turned off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

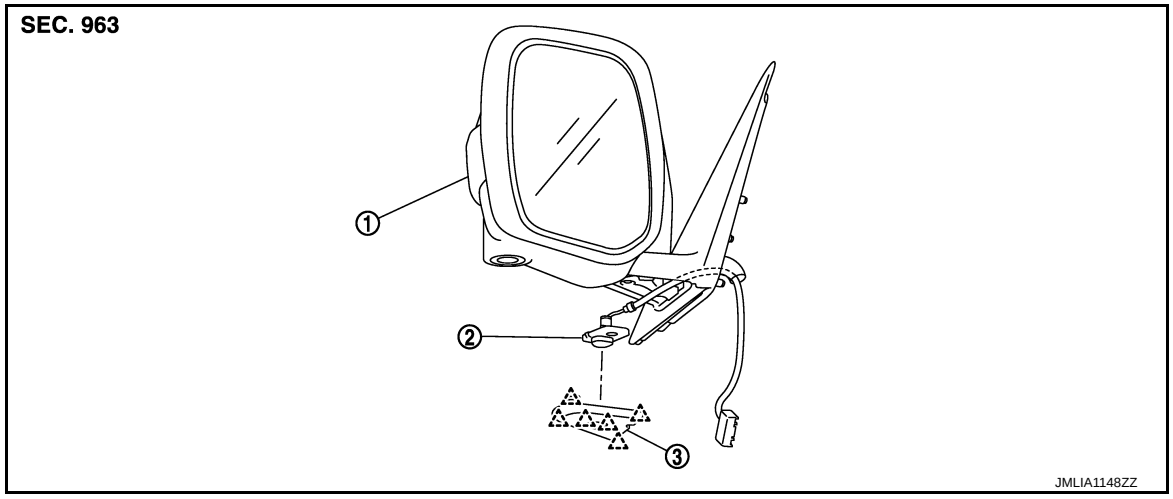
PERSONAL LAMP BULB

1. Insert any appropriate tool into the gap between the lens, and then remove the lens.
2. Remove the bulb.

PUDDLE LAMP

Exploded View

INFOID:0000000006288665



1. Door mirror assembly
2. Puddle lamp
3. Base cover

: Pawl

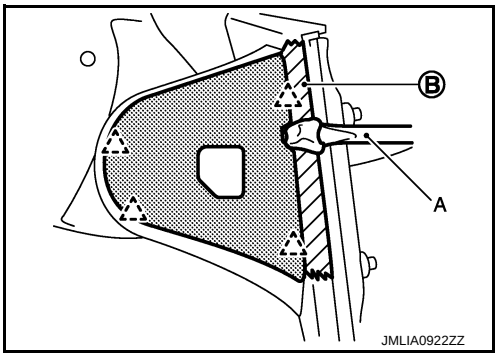
Removal and Installation

INFOID:0000000006288666

CAUTION:
- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch puddle lamp directly by hand. Keep grease and other oily substaces away from it.**
- **Never touch puddle lamp by hand while it is lit or right after it is off.**
- **It is prohibited to disassemble puddle lamp.**
- **Always replace puddle lamp as an assembly, when replacing.**

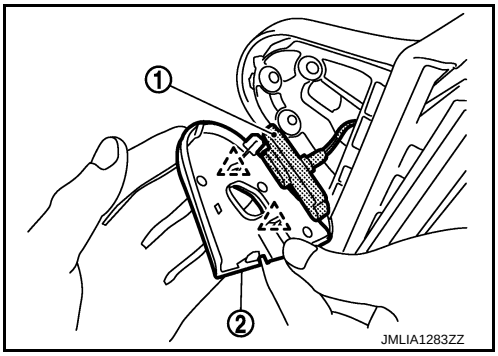
REMOVAL

1. Remove door mirror assembly. Refer to MIR-32, "DOOR MIRROR ASSEMBLY : Removal and Installation".
2. Disconnect puddle lamp harness connector terminal from door mirror harness connector.
3. Disengage base cover fixing pawls using a small flat-bladed screwdriver (A), and then remove base cover.
   CAUTION:
   - **Apply protective tape (B) around the base to protect the surface from damage.**
   - **Apply protective tape to small flat-bladed screwdriver.**



: Pawl

4. Disengage puddle lamp fixing pawls, and then remove puddle lamp (1) from base cover (2).



: Pawl

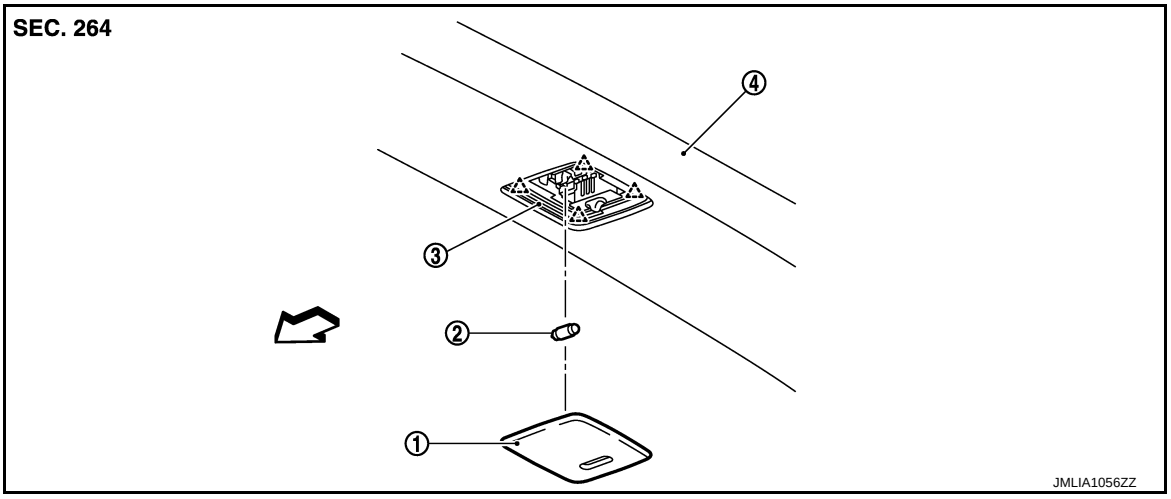
INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM LAMP

Exploded View

INFOID:0000000006288667



1. Lens
2. Bulb
3. Luggage room lamp housing
4. Roof garnish

: Pawl

: Vehicle front

Removal and Installation

INFOID:0000000006288668

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

REMOVAL

1. Insert any appropriate tool into the gap between lens and roof garnish, and then remove lens.
2. Disengage luggage room lamp housing fixing metal clips, and then disconnect luggage room lamp harness connector.
3. Remove luggage room lamp housing.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000006288669

CAUTION:

- **Disconnect the battery cable from negative terminal or remove the fuse.**
- **Never touch the glass of bulb directly by hand. Keep grease and other oily substaces away from it. Never touch bulb by hand while it is lit or right after it is off.**
- **Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with a new one.**

LUGGAGE ROOM LAMP BULB

1. Insert any appropriate tool into the gap between lens and roof garnish, and then remove the lens.
2. Remove bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000006288670

Item	Type	Wattage (W)
Push-button ignition switch illumination	LED	—
Map lamp	Wedge	8
Console lamp (integrated into the map lamp assembly)	LED	—
Puddle lamp	LED	—
Vanity mirror lamp	—	2
Glove box lamp	Wedge	1.4
Foot lamp (driver and passenger)	Wedge	1.4
Rear foot lamp	LED	—
Mood lamp (front and rear door armrest)	LED	—
Step lamp	Wedge	8
Personal lamp	Wedge	8
Luggage room lamp	—	8