SECTION INL
INTERIOR LIGHTING SYSTEM

CONTENTS

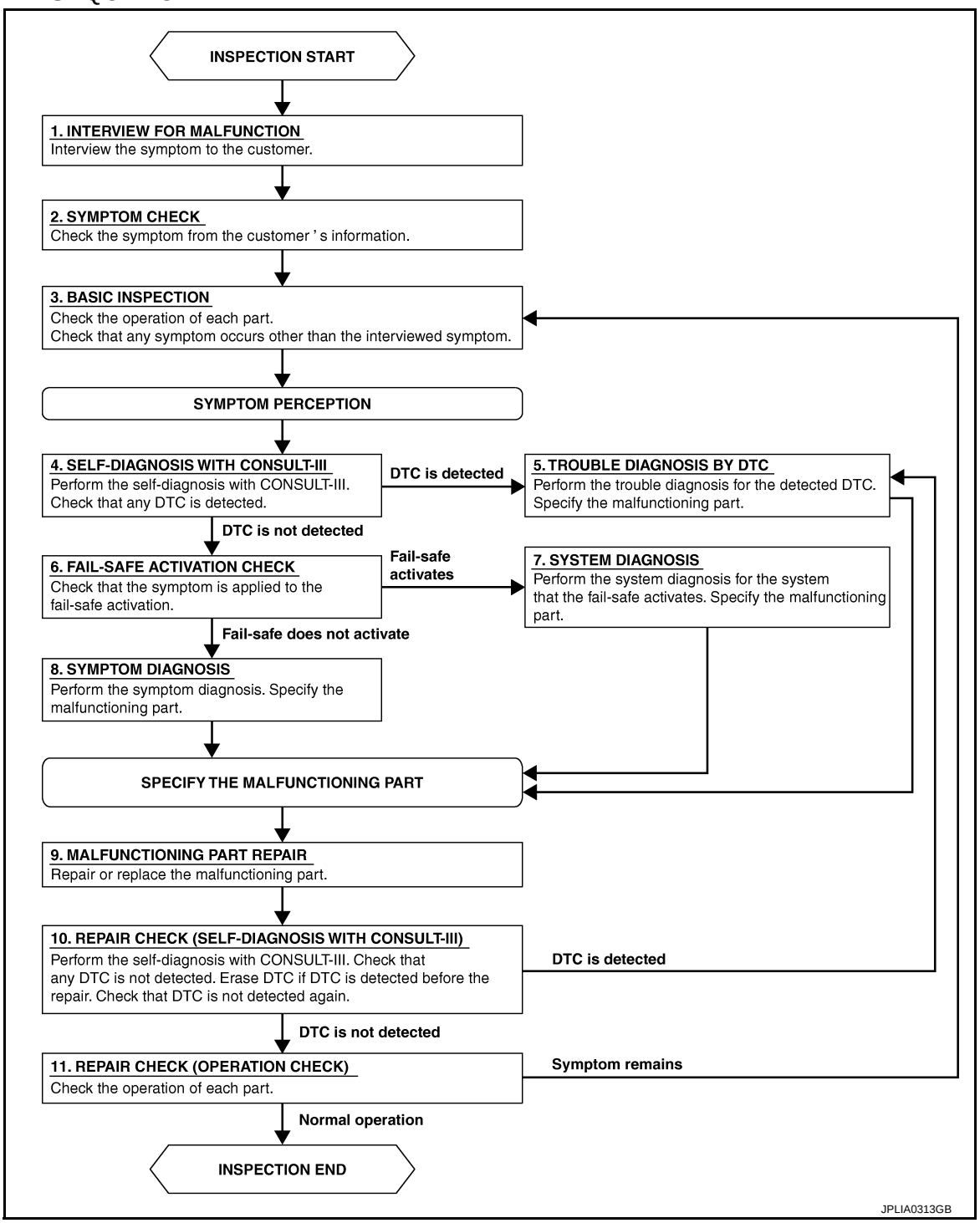
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000003824807

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?

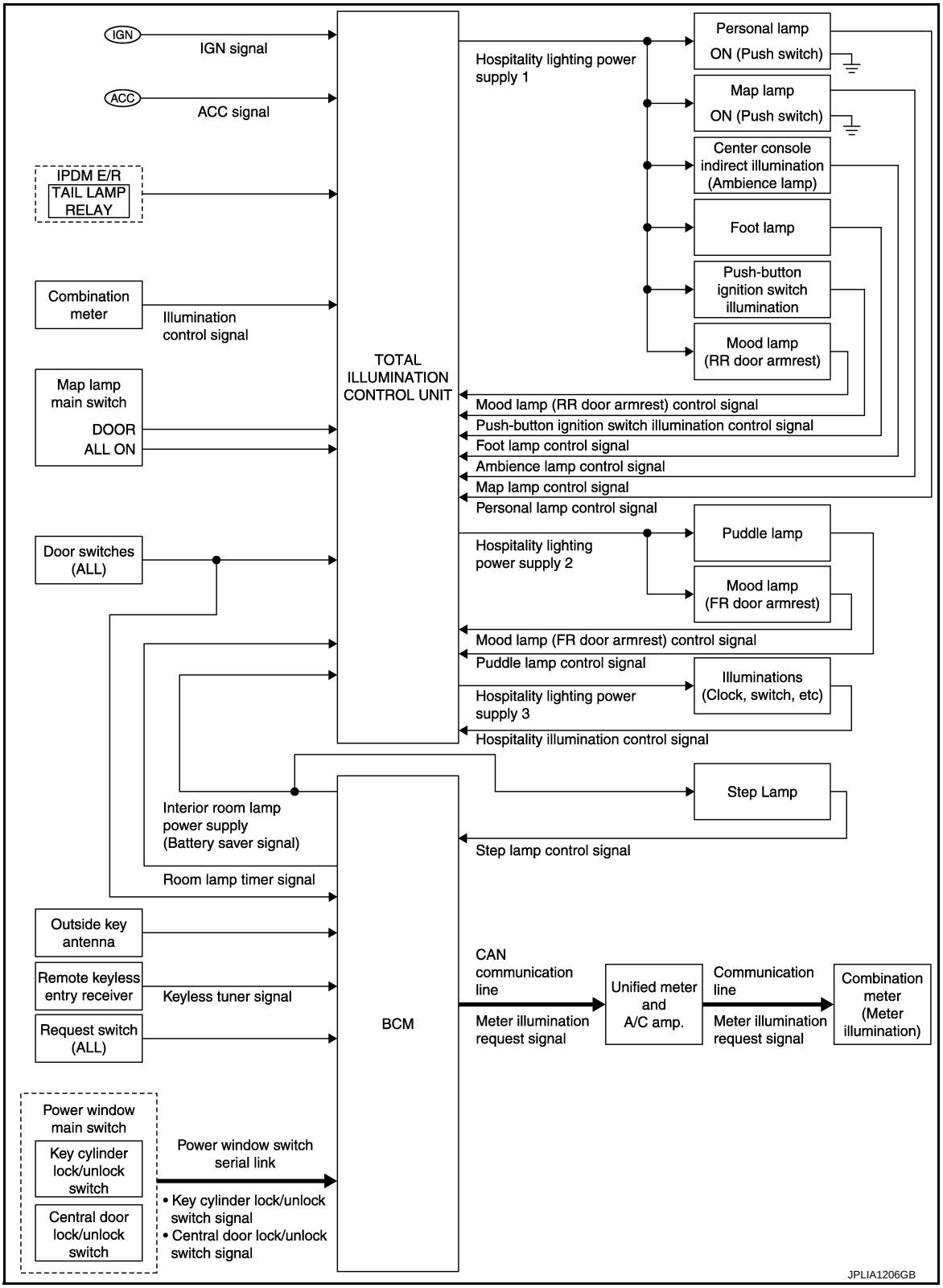
YES >> INSPECTION END
NO >> GO TO 3.

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

INFOID:0000000003824808



System Description

INFOID:0000000003824809

OUTLINE

Interior room lamps and illuminations are controlled by each function of the total illumination control unit and BCM.

Total Illumination Control Unit

Function
- Interior room lamp control function

Lamp control
- Push-button ignition switch illumination
- Map lamp and personal lamps (when map lamp main switch is in DOOR position.)
- Puddle lamps
- Mood lamps (Door armrest)
- Foot lamps
- Center console indirect illumination
- Each illumination (Clock, switches, etc.)

BCM

Function
- Interior room lamp timer function
- Welcome light function (Welcome light function is controlled by Intelligent Key system. Refer to DLK-33, "WELCOME LIGHT FUNCTION : System Description".)
- Step lamp control function

Lamp control
- Step lamp

HOSPITALITY LIGHTING SYSTEM

- Hospitality lighting system is controlled by the total illumination control unit, BCM and combination meter.
- Hospitality lighting system controls each interior room lamp by each unit to show the driver hospitality.

Hospitality lighting functioning table

<table>
<tr><th rowspan="2">Light source</th><th rowspan="2">Push-button ignition switch illumination</th><th colspan="2">Map lamp and Personal lamp</th><th rowspan="2">Puddle lamp</th><th rowspan="2">Mood lamps (Door armrest)</th><th rowspan="2">Foot lamp</th><th rowspan="2">Step lamp</th><th rowspan="2">Center console indirect illumination</th><th rowspan="2">Each illumination (Clock, switches, etc.)</th><th rowspan="2">Meter illumination</th></tr>
<tr><th>A close door side lamp</th><th>An open door side lamp</th></tr>
<tr><td>Scene 1
• Door is unlocked (Interior room lamp timer function)
• Driver approach to the vehicle (Welcome light function)</td><td rowspan="3">Heart beat (Pulse)</td><td colspan="2">Dim (30%)</td><td rowspan="2">ON (100%)</td><td>OFF</td><td>OFF</td><td>OFF</td><td rowspan="3">OFF</td><td rowspan="3">OFF</td><td rowspan="3">OFF</td></tr>
<tr><td>Scene 2
Any door is opened</td><td>Dim (30%)</td><td>1 sec. delay ON (90%)</td><td rowspan="4">ON (100%)</td><td>ON (80%)</td><td>ON</td></tr>
<tr><td>Scene 3
All doors are closed</td><td colspan="2">Dim (30%)</td><td rowspan="6">OFF</td><td rowspan="5">OFF</td><td>2.5 sec. delay ON (100%)</td><td>Meter panel illuminates</td></tr>
<tr><td>Scene 4
Ignition switch ACC or ON</td><td rowspan="3">Steady</td><td colspan="2" rowspan="4">OFF</td><td rowspan="3">Dim (10%)</td><td rowspan="3">ON (10%)</td><td rowspan="4">OFF</td><td>Combination meter activates</td></tr>
<tr><td>Scene 5
Engine start</td><td>Engine start excitement function</td></tr>
<tr><td>Scene 6
Engine running</td><td>OFF</td></tr>
<tr><td>Scene 7
Tail lamps ON (Linked to illumination control switch)</td><td>Steady</td><td>Dim (10% MAX)</td><td>ON (100% MAX)</td><td>Dim</td></tr>
<tr><td>Scene 8
Map lamp main switch ALL ON</td><td>—</td><td colspan="2">ON (100%)</td><td>—</td><td>—</td><td>—</td><td>—</td><td>ON (100%)</td><td>—</td><td>—</td></tr>
<tr><td>Scene 6
Ignition switch OFF</td><td rowspan="3">Steady</td><td colspan="2">Dim (30%)</td><td rowspan="3">ON (100%)</td><td rowspan="3">ON (100%)</td><td rowspan="3">ON (80%)</td><td>OFF</td><td rowspan="4">OFF</td><td rowspan="2">OFF</td><td>OFF (Gradual dimming)</td></tr>
<tr><td>Scene 7
Any door is opened</td><td>Dim (30%)</td><td>1 sec. delay ON (90%)</td><td>ON</td><td>OFF</td></tr>
<tr><td>Scene 8
All doors are closed</td><td colspan="2">Dim (30%)</td><td rowspan="2">OFF</td><td>2.5 sec. delay ON (100%)</td><td>Meter panel illuminates</td></tr>
<tr><td>Scene 9
• Door is locked
• Battery saver activates</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td></tr>
</table>

NOTE:

- Heart beat function of push-button ignition switch illumination can be set to OFF by CONSULT-III.
- Total illumination control unit controlled lamps fade-in/fade-out time can be set by CONSULT-III.

Refer to INL-18, "CONSULT-III Function (TOTAL ILLUM C/U)".

TOTAL ILLUMINATION CONTROL UNIT

Total illumination control unit controls each lamp (ground side) by PWM signal (duty) depending on vehicle conditions.

INTERIOR ROOM LAMP TIMER CONTROL

BCM operates the timer for a period of time when satisfying the timer operating condition. And it outputs the room lamp timer signal to total illumination control unit while the timer counts the time.

Timer ON
- Door is unlocked.
- Welcome light function operating condition is satisfied.

Timer OFF
- Ignition switch is OFF ⇒ ON or ACC.
- Door is locked.

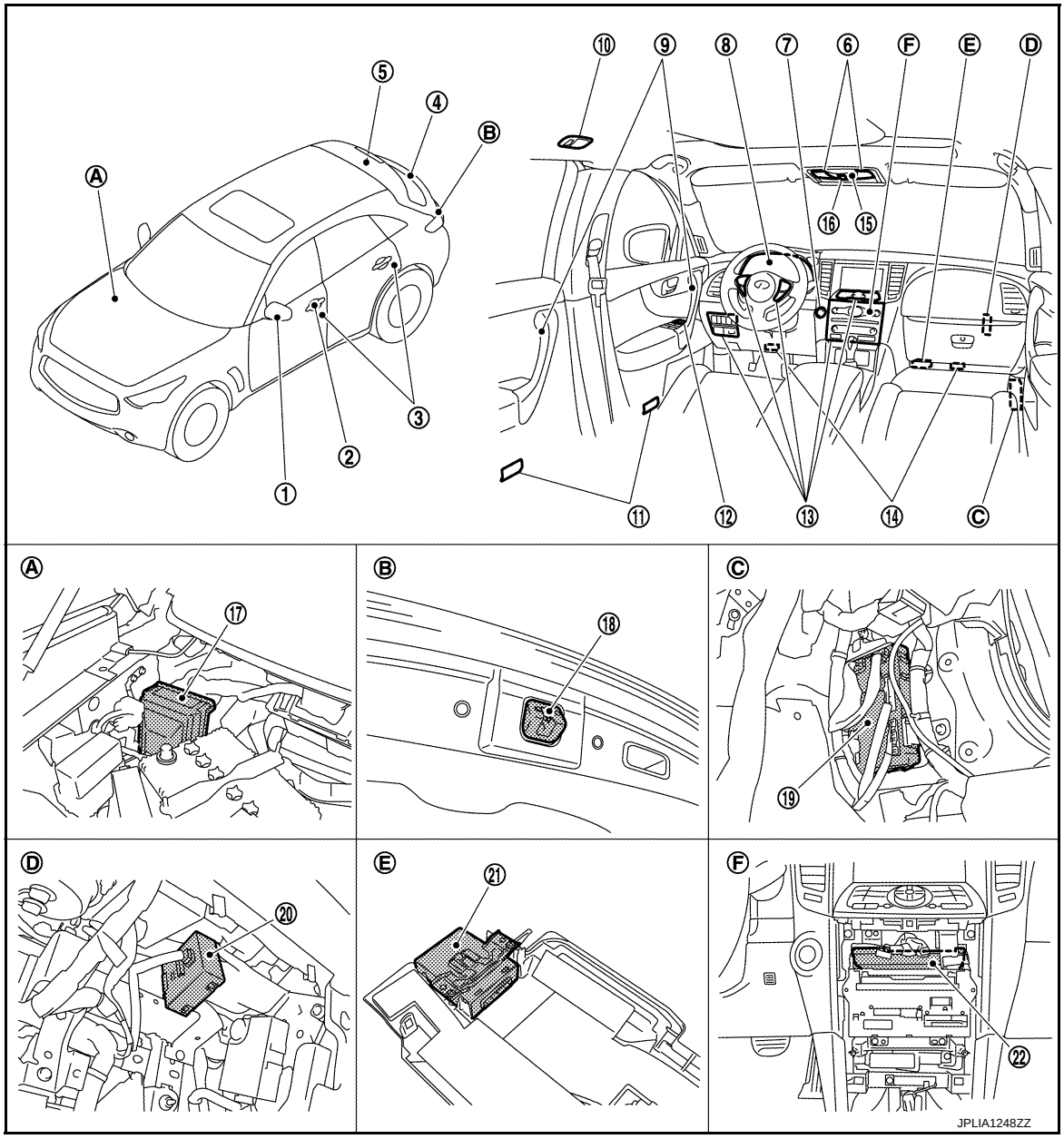
NOTE:
Interior room lamp timer can be set by CONSULT-III. Refer to INL-22, "INT LAMP : CONSULT-III Function (BCM - INT LAMP)".

STEP LAMP CONTROL

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

Component Parts Location

INFOID:0000000003824810



1.	Puddle lamp	2.	• Request switch • Key cylinder lock/unlock switch	3.	Door switch
4.	Luggage room lamp (Back door side)	5.	Luggage room lamp (Luggage side)	6.	Map lamp
7.	Push-button ignition switch illumination	8.	Combination meter	9.	Mood lamp
10.	Personal lamp	11.	Step lamp	12.	Door lock/unlock switch
13.	Illuminations	14.	Foot lamp	15.	Center console indirect illumination
16.	Map lamp main switch	17.	IPDM E/R	18.	Back door switch
19.	BCM	20.	Remote keyless entry receiver	21.	Total illumination control unit
22.	Unified meter and A/C amp.				
A.	Engine room dash panel (RH)	B.	Back door lock assembly	C.	Dash side lower (passenger side)
D.	Over the glove box	E.	Instrument lower cover LH	F.	Behind the cluster lid C

Component Description

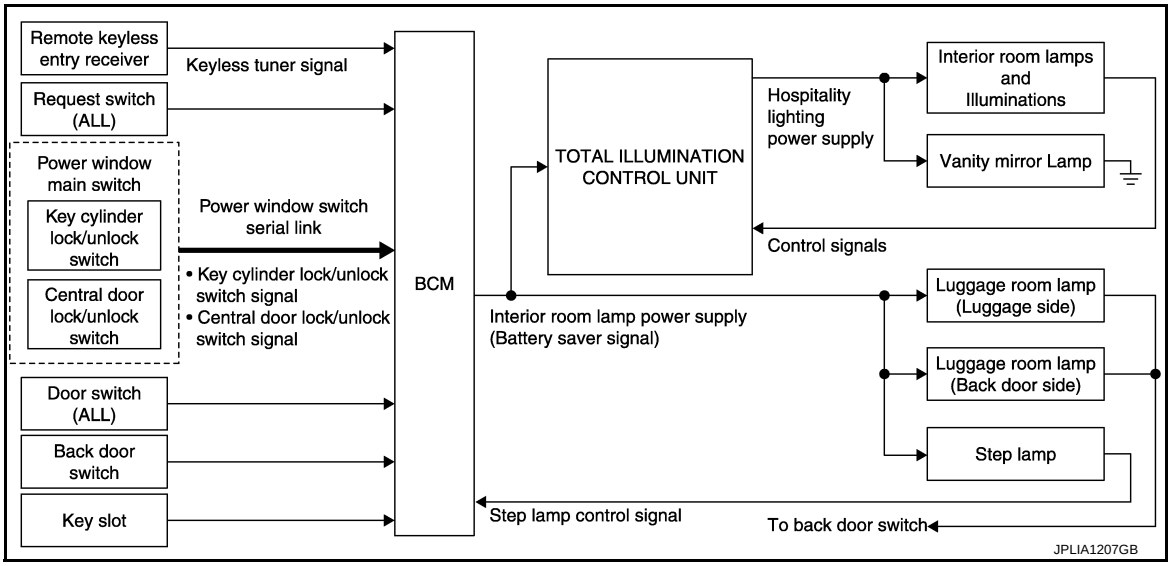
INFOID:0000000003824811

Part	Description
Total illumination control unit	Controls each interior room lamp and each illumination depending on the vehicle conditions and each signal.
BCM	• Outputs room lamp timer signal and battery saver signal to the total illumination control unit depending on the vehicle conditions. • Turns the step lamp ON/OFF according to any door switch status. • Controls welcome light function of Intelligent Key system.
Combination meter	• Illuminates the meter illumination according to request signals from BCM via CAN communication (through the unified meter and A/C amp.). • Outputs the illumination control signal to the total illumination control unit.
• Remote keyless entry receiver • Outside key antenna	• Receives the lock/unlock signal from keyfob. • Transmits the lock/unlock signal to BCM.
• Request switch • Key cylinder lock/unlock switch • Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
Door switch	Inputs the door switch signal to BCM and the total illumination control unit.
Tail lamp relay	Inputs the tail lamp signal to the total illumination control unit.
Map lamp main switch	Inputs the map lamp switch signal to the total illumination control unit.

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram

INFOID:0000000003824812



System Description

INFOID:0000000003824813

OUTLINE

- Interior room lamp battery saver is controlled by battery saver function of BCM.
- BCM cuts the interior room lamp power supply depending on the vehicle condition. Total illumination control unit cuts the hospitality lighting power supply according to interior room lamp power supply (battery saver signal). This function prevents the battery from over-discharging if the driver neglects turning OFF the lamps.

Applicable lamps

Control by the total illumination control unit

- Push-button ignition switch illumination
- Map lamp and personal lamps
- Center console indirect illumination
- Vanity mirror lamps
- Puddle lamps
- Foot lamps
- Mood lamps (Door armrest)
- Each illumination (Clock, switches, etc.)

Control by BCM

- Step lamps
- Luggage room lamps

INTERIOR ROOM LAMP BATTERY SAVER FUNCTION

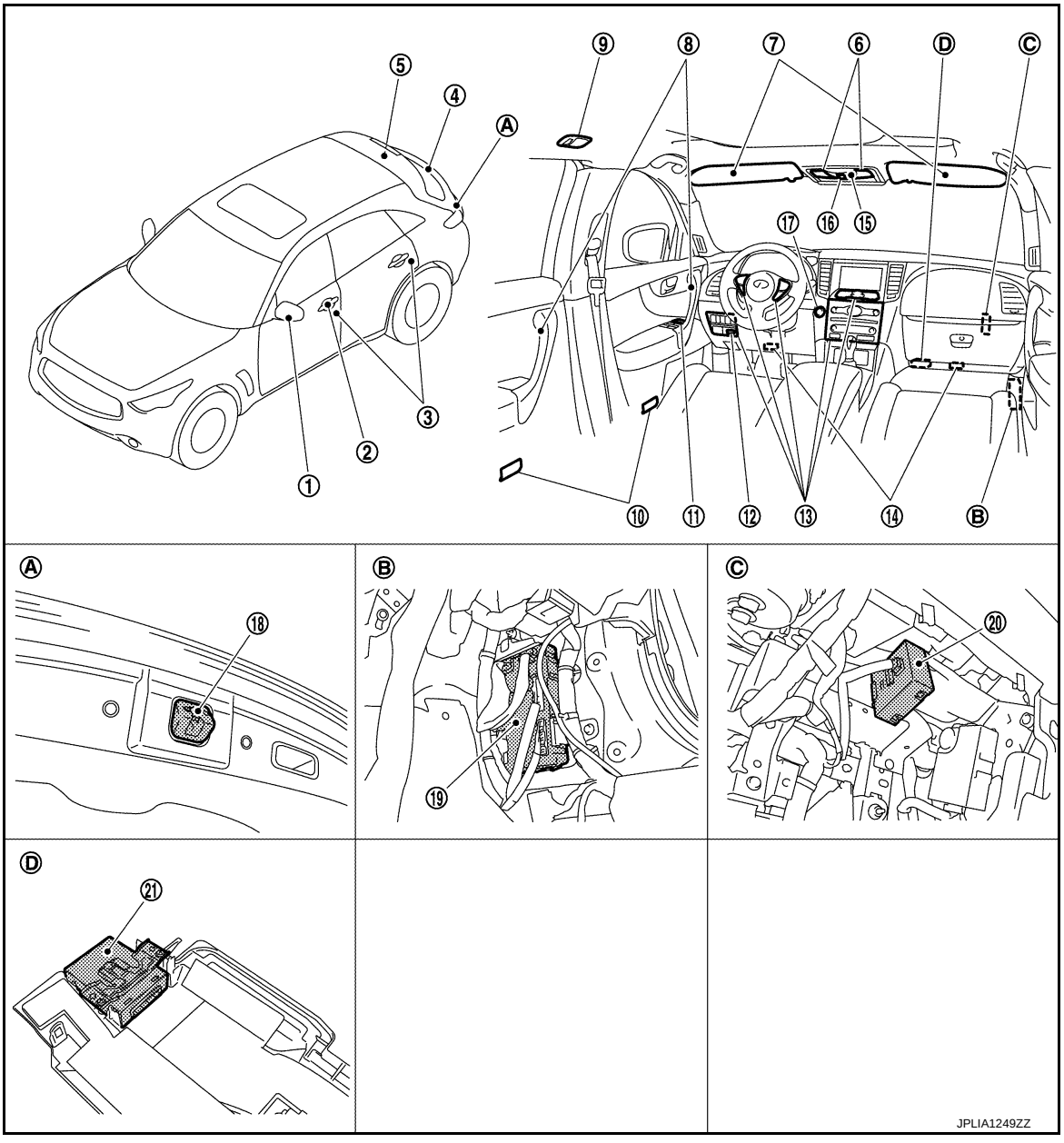
- When the ignition switch is turned OFF, BCM operates the timer for a period of time to cut the interior room lamp power supply.
- When interior room lamp power supply (battery saver signal) is OFF, the total illumination control unit cuts hospitality lighting power supply. And then it switches to sleep mode.
- BCM restarts the timer when any of the following signals changes while operating the timer.
- Ignition switch status
- Door switch signal (ALL)
- Door lock/unlock signal (Remote keyless entry receiver, each request switch, key cylinder lock/unlock switch, door lock/unlock switch)
- Back door switch signal
- Key switch signal (Key slot)
- BCM provides the interior room lamp power supply continuously when the ignition switch is in an other than OFF.

NOTE:

Each function of interior room lamp battery saver can be set by CONSULT-III. Refer to INL-24, "BATTERY SAVER : CONSULT-III Function (BCM - BATTERY SAVER)".

Component Parts Location

INFOID:0000000003824814



1. Puddle lamp	2. • Request switch • Key cylinder lock/unlock switch	3. Door switch
4. Luggage room lamp (Back door side)	5. Luggage room lamp (Luggage side)	6. Map lamp
7. Vanity mirror lamp	8. Mood lamp	9. Personal lamp
10. Step lamp	11. Door lock/unlock switch	12. Key slot
13. Illuminations	14. Foot lamp	15. Center console indirect illumination
16. Map lamp main switch	17. Push-button ignition switch illumination	18. Back door switch
19. BCM	20. Remote keyless entry receiver	21. Total illumination control unit

A. Back door lock assembly
B. Dash side lower (passenger side)
C. Over the glove box
D. Instrument lower cover LH

Component Description

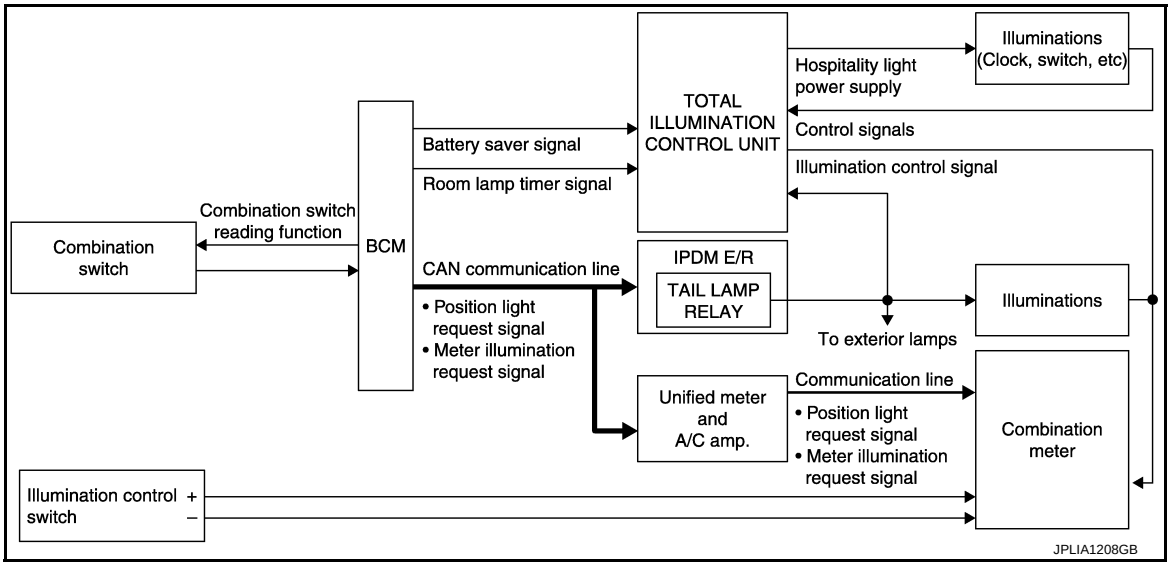
INFOID:0000000003824815

Part	Description
Total illumination control unit	Cuts the hospitality lighting power supply according to interior room lamp power supply (battery saver signal).
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply (battery saver signal).
Remote keyless entry receiver	• Receives the lock/unlock signal from keyfob. • Transmits the lock/unlock signal to BCM.
• Request switch • Key cylinder lock/unlock switch • Door lock/unlock switch	Inputs the lock/unlock signal to BCM.
• Door switch • Back door switch	Inputs a switch signal to BCM.
Key slot	Inputs the key switch status to BCM.

ILLUMINATION CONTROL SYSTEM

System Diagram

INFOID:0000000003824816



System Description

INFOID:0000000003824817

OUTLINE

Each illumination lamp is controlled by each function of BCM, IPDM E/R, total illumination control unit 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-27, "METER ILLUMINATION CONTROL : System Diagram".)

Control by the total illumination control unit
- Interior room lamp control function (Refer to INL-6, "System Diagram".)

ILLUMINATION CONTROL

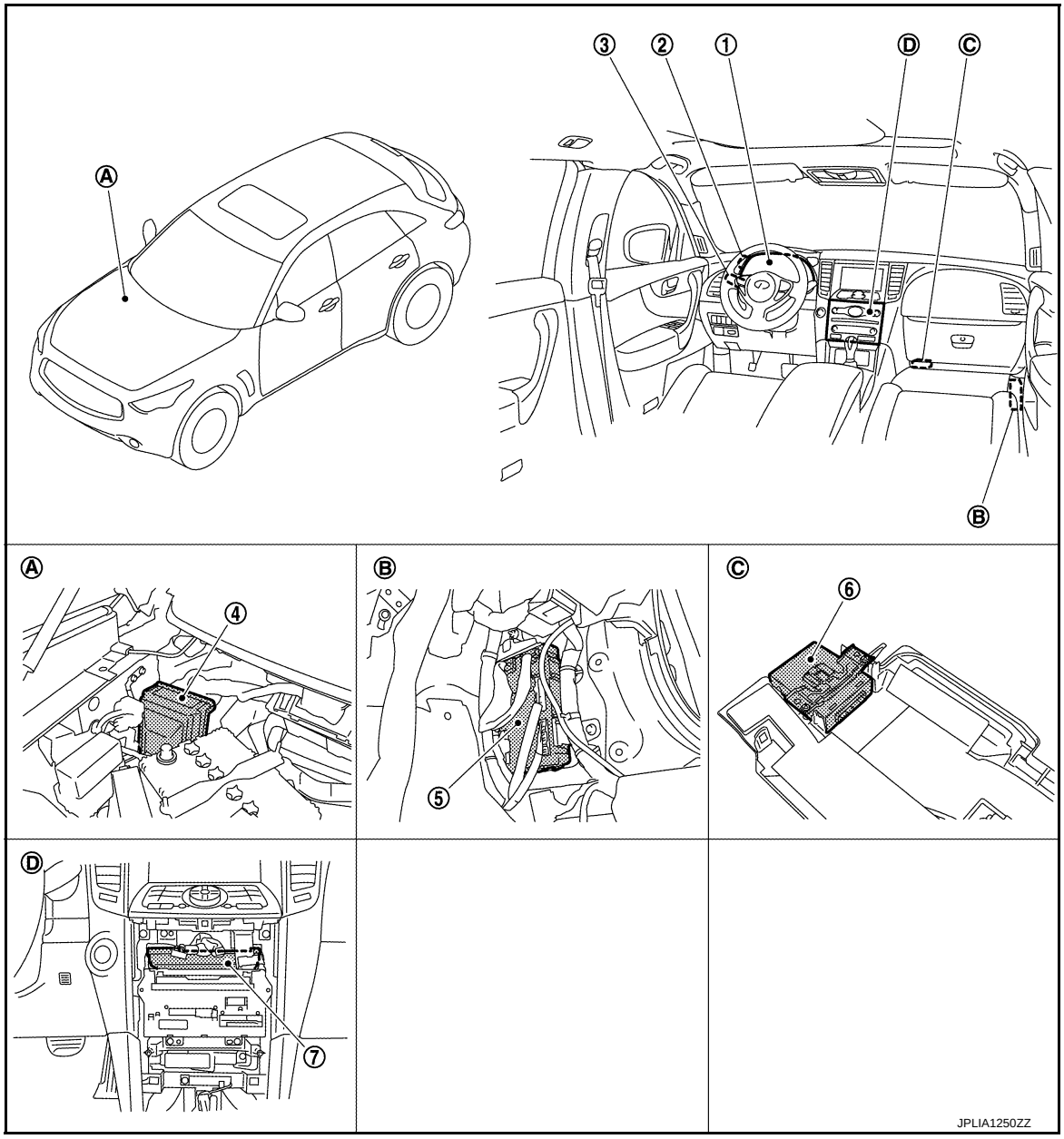
- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter (through the unified meter and A/C amp.) according to tail lamp ON condition.

Tail lamp ON condition
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)

- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Total illumination control unit turns each illumination (linked with hospitality lighting system) ON according to tail lamp signal from IPDM E/R.
- Combination meter enters in the nighttime mode according to position light request signal (through the unified meter and A/C amp.). Under the nighttime mode the combination meter controls each illumination brightness.
- Total illumination control unit controls each illumination (linked with hospitality lighting system) brightness according to the illumination control signal from combination meter.

Component Parts Location

INFOID:0000000003824818



1. Combination meter
2. Illumination control switch
3. Combination switch
4. IPDM E/R
5. BCM
6. Total illumination control unit
7. Unified meter and A/C amp.
- A. Engine room dash panel (RH)
- B. Dash side lower (passenger side)
- C. Instrument lower cover LH
- D. Behind the cluster lid C

Component Description

INFOID:0000000003824819

Part	Description
BCM	• Detects each switch condition by the combination switch reading function. • Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then it transmits position light request signal to IPDM E/R and combination meter via CAN communication (through the unified meter and A/C amp.).
IPDM E/R	Controls the integrated relay according to the request from BCM via CAN communication.
Combination meter	• Enters in the nighttime mode according to the request from BCM via CAN communication. • Controls each illumination brightness in the nighttime mode. Refer to MWI-27, "METER ILLUMINATION CONTROL : System Diagram".
Total illumination control unit	• Turns each illumination (linked with hospitality lighting system) ON according to tail lamp signal from IPDM E/R • Controls each illumination (linked with hospitality lighting system) brightness according to the illumination control signal from combination meter.
Combination switch (Lighting & turn signal switch)	Refer to BCS-8, "System Diagram".

DIAGNOSIS SYSTEM (TOTAL ILLUMINATION CONTROL UNIT)

CONSULT-III Function (TOTAL ILLUM C/U)

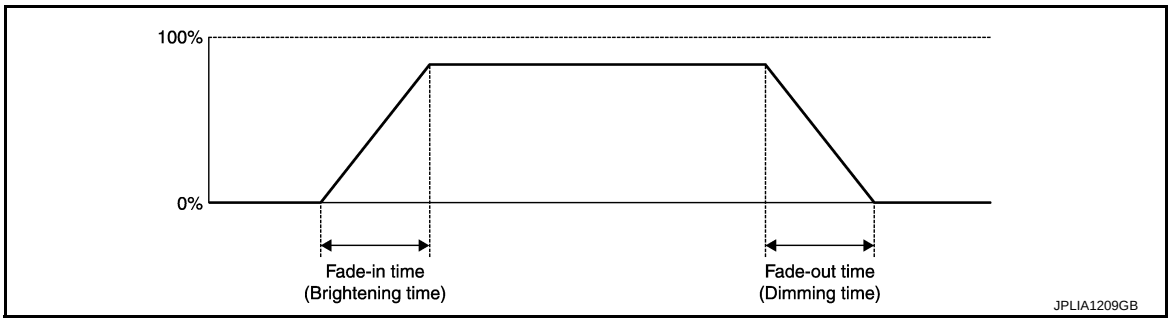
INFOID:0000000003867916

APPLICATION ITEM

CONSULT-III performs the following functions via DDL2 communication line with the total illumination control unit.

Diagnosis mode	Function Description
Work Support	Changes the setting for each function.
Data Monitor	Total illumination control unit input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from total illumination control unit.
Ecu Identification	Total illumination control unit part number is displayed.

WORK SUPPORT



Service item	Setting item		Setting
FOOT LAMP FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the foot lamps.
	FADE-OUT	0 – 3.0 sec. (1.0 sec.*)	
MAP&PERSNL LAMP FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the map lamps and personal lamps.
	FADE-OUT	0 – 3.0 sec. (1.0 sec.*)	
PUDDLE LAMP FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (0 sec.*)	Sets fade-in/fade-out time of the puddle lamps.
	FADE-OUT	0 – 3.0 sec. (3.0 sec.*)	
MOOD LAMP FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the mood lamps.
	FADE-OUT	0 – 3.0 sec. (1.0 sec.*)	
AMBIENCE LAMP FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the ambience lamp (center console indirect illumination).
	FADE-OUT	0 – 3.0 sec. (1.0 sec.*)	
HSPL ILLUMINATION FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of each illumination (linked with hospitality lighting).
	FADE-OUT	0 – 3.0 sec. (1.0 sec.*)	
E/G SW ILLUMI FADE-IN/OUT	FADE-IN	0 – 3.0 sec. (1.5 sec.*)	Sets fade-in/fade-out time of the engine switch illumination.
	FADE-OUT	0 – 3.0 sec. (1.5 sec.*)	
E/G SW ILL HEART BEAT FUNCTION	On*		With the engine switch illumination heart beat function
	Off		Without the engine switch illumination heart beat function

*: Factory setting

DATA MONITOR

Monitor item [Unit]	Description
BAT SAVER SIGNAL [On/Off]	Battery saver status input from BCM
IGN SIGNAL [On/Off]	Ignition switch ON signal status
ACC SIGNAL [On/Off]	Ignition switch ACC signal status
ROOM LAMP REQ [On/Off]	Room lamp timer signal status input from BCM
TAIL LAMP SIGNAL [On/Off]	Tail lamp status input from IPDM E/R
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch (RH)
DOOR SW- RL [On/Off]	The switch status input from rear door switch (LH)
MAP LAMP SW [Door/All On/Off]	The switch status input from map lamp main switch
ENGINE SW ILLUMI [STEADY/PULSE/Off]	Control status of the engine switch illumination
FOOT LAMP [%]	Brightening rate of the foot lamps
MAP LAMP-DR [%]	Brightening rate of the map lamp (driver side)
MAP LAMP-AS [%]	Brightening rate of the map lamp (passenger side)
PERSONAL LMP-RR [%]	Brightening rate of the personal lamp (RH)
PERSONAL LMP-RL [%]	Brightening rate of the personal lamp (LH)
PUDDLE LAMP [%]	Brightening rate of the puddle lamps
MOOD LAMP [%]	Brightening rate of the mood lamps
AMBIENCE LAMP [%]	Brightening rate of the ambience lamp (center console indirect illumination)
HSPL ILLUMI [%]	Brightening rate of each illumination (linked with hospitality lighting)
ILLUM CONT SIGNAL [%]	Illumination control signal status input from combination meter

ACTIVE TEST

Test item	Operation	Description
ENGINE SWITCH ILLUMI-NATION	On	Total illumination control unit turns ON/OFF the engine switch illumination.
	Off	
FOOT LAMP	On	Total illumination control unit turns ON/OFF the foot lamps.
	Off	

Test item	Operation	Description
MAP LAMP-DR	On	Total illumination control unit turns ON/OFF the map lamp (driver side).
	Off	
MAP LAMP-AS	On	Total illumination control unit turns ON/OFF the map lamp (passenger side).
	Off	
PERSONAL LAMP-RR	On	Total illumination control unit turns ON/OFF the personal lamp (RH).
	Off	
PERSONAL LAMP-RL	On	Total illumination control unit turns ON/OFF the personal lamp (LH).
	Off	
PUDDLE LAMP	On	Total illumination control unit turns ON/OFF the puddle lamps.
	Off	
MOOD LAMP	On	Total illumination control unit turns ON/OFF the mood lamp.
	Off	
AMBIENCE LAMP	On	Total illumination control unit turns ON/OFF the ambience lamp (center console indirect illumination).
	Off	
HSPL ILLUMINATION	On	Total illumination control unit turns ON/OFF each illumination (linked with hospitality lighting).
	Off	

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

INFOID:0000000004068681

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.
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 - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:

*: This item is displayed, but is not used.

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

INFOID:0000000003824821

WORK SUPPORT

Service item	Setting item	Setting	
SET I/L D-UNLCK INTCON	On*	Interior room lamps link with door unlock. (Interior room lamp timer function)	
	Off	Interior room lamps do not link with door unlock.	
ROOM LAMP TIMER SET	MODE 2	7.5 sec.	Interior room lamp ON time after door are unlocked.
	MODE 3*	15 sec.	
	MODE 4	30 sec.	

Service item	Setting item	Setting
ROOM LAMP ON TIME SET	MODE 1	**NOTE:** The item is indicated, but not used.
	MODE 2	
	MODE 3	
	MODE 4	
	MODE 5*	
ROOM LAMP OFF TIME SET	MODE 1	**NOTE:** The item is indicated, but not used.
	MODE 2	
	MODE 3	
	MODE 4	
	MODE 5*	
R LAMP TIMER LOGIC SET	MODE 1*	Interior room lamp timer activates by synchronizing all doors.
	MODE 2	Interior room lamp timer activates by synchronizing the driver door only.

*: Factory setting

DATA MONITOR

Monitor item [Unit]	Description
REQ SW-DR [On/Off]	The switch status input from request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
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
KEY SW-SLOT [On/Off]	Key switch status input from key slot
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch (RH)
DOOR SW- RL [On/Off]	The switch status input from rear door switch (LH)
DOOR SW-BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status received from central door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link

Monitor item [Unit]	Description
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
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 room lamp timer signal to the total illumination control unit to activate interior room lamps. (Hospitality lighting functioning table “Scene 1”)
	Off	Stops the room lamp timer signal.
STEP LAMP TEST	On	Outputs the step lamp control signal to turn step lamp ON.
	Off	Stops the step lamp control signal to turn step lamp OFF.
LUGGAGE LAMP TEST	On	**NOTE:** The item is indicated, but not used.
	Off	

BATTERY SAVER

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

INFOID:0000000003824822

WORK SUPPORT

Service item	Setting item	Setting	
ROOM LAMP BAT SAV SET	On*	With the interior room lamp battery saver function	
	Off	Without the interior room lamp battery saver function	
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 request switch (driver side)
REQ SW-AS [On/Off]	The switch status input from request switch (passenger side)
REQ SW-RR [On/Off]	**NOTE:** The item is indicated, but not monitored.
REQ SW-RL [On/Off]	
PUSH SW [On/Off]	The switch status input from push-button ignition switch
UNLK SEN-DR [On/Off]	Driver door unlock status input from unlock sensor
KEY SW-SLOT [On/Off]	Key switch status input from key slot

Monitor item [Unit]	Description
DOOR SW-DR [On/Off]	The switch status input from front door switch (driver side)
DOOR SW-AS [On/Off]	The switch status input from front door switch (passenger side)
DOOR SW-RR [On/Off]	The switch status input from rear door switch (RH)
DOOR SW- RL [On/Off]	The switch status input from rear door switch (LH)
DOOR SW-BK [On/Off]	The switch status input from back door switch
CDL LOCK SW [On/Off]	Lock switch status received from central door lock/unlock switch by power window switch serial link
CDL UNLOCK SW [On/Off]	Unlock switch status received from central door lock/unlock switch by power window switch serial link
KEY CYL LK-SW [On/Off]	Lock switch status received from key cylinder lock/unlock switch by power window switch serial link
KEY CYL UN-SW [On/Off]	Unlock switch status received from key cylinder lock/unlock switch by power window switch serial link
TRNK/HAT MNTR [On/Off]	The switch status input from trunk room lamp switch
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 (battery saver signal).
	On	Provides the interior room lamp power supply (battery saver signal).

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

TOTAL ILLUMINATION CONTROL UNIT

TOTAL ILLUMINATION CONTROL UNIT : Diagnosis Procedure

INFOID:0000000003890822

1.FUSE INSPECTION

Check that the following fuses are not fusing.

Signal name	Connection position	Fuse No.	Capacity
Battery power supply	FUSE BLOCK (J/B)	10	10 A
Ignition switch ACC	FUSE BLOCK (J/B)	19	10 A
Ignition switch ON	IPDM E/R	44	10 A

Is the fuse fusing?

YES >> Repair the applicable circuit. And then replace the fuse.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit harness connector.
3. Check voltage between the total illumination control unit harness connector and ground.

Terminals			Condition	Voltage (Approx.)
(+)		(−)		
Total illumination control unit			Ignition switch	
Connector	Terminal			
M129	21	Ground	OFF	Battery voltage
	5		ACC	
	7		ON	

Is the measurement value normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	23		Existed

Does continuity exist?

YES >> Power supply and ground circuit are normal.
NO >> Repair harness or connector.

BCM

BCM : Diagnosis Procedure

INFOID:0000000004068691

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.
Battery power supply	L
	10

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals			Voltage (Approx.)
(+)		(–)	
BCM		Ground	
Connector	Terminal		
M118	1		Battery voltage
M119	11		

Is the measurement value normal?

YES >> GO TO 3.
NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END
NO >> Repair harness or connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:0000000003824824

BCM provides the step lamp power supply. Also BCM outputs it as the battery saver signal to total illumination control unit. And BCM cuts the power supply when the interior room lamp battery saver is activated.

Diagnosis Procedure

INFOID:0000000003824826

1.CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between BCM harness connector and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
BCM		Ground	BATTERY SAVER	
Connector	Terminal			
M119	4		Off	0 V
			On	12 V

Is the measurement value normal?

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

2.CHECK INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- BCM
- Total illumination control unit
- Step lamp (Driver side)
- Step lamp (Passenger side)
- Step lamp (Rear LH)
- Step lamp (Rear RH)
- Luggage room lamp (Luggage side)
- Luggage room lamp (Back door side)

3. Check continuity between BCM harness connector and each interior room lamp harness connector.

BCM		Each interior room lamp and total illumination control unit			Continuity
Connector	Terminal	Connector		Terminal	
M119	4	Total illumination control unit	M129	6	Existed
		Step lamp (Driver side)	D12	1	
		Step lamp (Passenger side)	D42	1	
		Step lamp (Rear LH)	D59	1	
		Step lamp (Rear RH)	D79	1	
		Luggage room lamp (Luggage side)	B229	2	
		Luggage room lamp (Back door side)	D110	2	

Does continuity exist?

YES >> Interior room lamp power supply circuit is normal.
NO >> Repair the harnesses or connectors.

3.CHECK INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- BCM
- Total illumination control unit
- Step lamp (Driver side)
- Step lamp (Passenger side)
- Step lamp (Rear LH)
- Step lamp (Rear RH)
- Luggage room lamp (Luggage side)
- Luggage room lamp (Back door side)
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	4		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace BCM.

BATTERY SAVER SIGNAL CIRCUIT

Description

INFOID:0000000003941706

BCM cuts the interior room lamp power supply depending on the vehicle condition. Total illumination control unit cuts the hospitality lighting power supply according to interior room lamp power supply (battery saver signal). This function prevents the battery from over-discharging if the driver neglects turning OFF any lamps.

Diagnosis Procedure

INFOID:0000000003941708

1.CHECK BATTERY SAVER SIGNAL INPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between total illumination control unit harness connector and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	BATTERY SAVER	
Connector	Terminal			
M129	6		Off	0 V
			On	12 V

Is the measurement value normal?

YES >> GO TO 2.
NO >> Check the interior room lamp power supply circuit. Refer to INL-28, "Description".

2.CHECK BATTERY SAVER SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch ON.
2. Select “BAT SAVER SIGNAL” of TOTAL ILLUM C/U data monitor item.
3. Check the monitor status.

Monitor item	Monitor status
BAT SAVER SIGNAL	On

4. Turn ignition switch OFF.
5. Disconnect the BCM (M119) connector.
6. Turn ignition switch ON.
7. Check the monitor status.

Monitor item	Monitor status
BAT SAVER SIGNAL	Off

Is the item status normal?

YES >> Battery saver signal circuit is normal.
NO >> Replace the total illumination control unit.

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 1

Description

INFOID:0000000003940102

Total illumination control unit provides the following lamps power supply according to the battery saver signal from BCM.

- Mood lamps (rear door armrest)
- Foot lamps
- Map lamps
- Center console indirect illumination (Ambience lamp)
- Personal lamps
- Vanity mirror lamps
- Push-button ignition switch illumination

Diagnosis Procedure

INFOID:0000000003940104

CAUTION:

Check the following circuit first if the other room lamps (Puddle lamps, push-button ignition switch illumination, etc.) are not turned ON.

- **Power supply and ground circuit of total illumination control unit: Refer to INL-26, "TOTAL ILLUMINATION CONTROL UNIT : Diagnosis Procedure".**
- **Battery saver signal circuit: Refer to INL-30, "Description".**

1. CHECK HOSPITALITY LIGHTING POWER SUPPLY 1 OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between total illumination control unit harness connector and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	BATTERY SAVER	
Connector	Terminal			
M129	35		Off	0 V
			On	12 V

Is the measurement value normal?

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

2. CHECK HOSPITALITY LIGHTING POWER SUPPLY 1 CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the following connectors.

- Total illumination control unit
- Roof module
- Foot lamp (driver side)
- Foot lamp (passenger side)
- Mood lamp (rear door armrest LH)
- Mood lamp (rear door armrest RH)
- Push-button ignition switch

3. Check continuity between total illumination control unit harness connector and each lamp harness connectors.

Total illumination control unit		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M129	35	Roof module	R2	12	Existed
		Foot lamp (driver side)	M30	1	
		Foot lamp (passenger side)	M130	1	
		Mood lamp (rear door armrest LH)	D58	1	
		Mood lamp (rear door armrest RH)	D78	1	
		Push-button ignition switch	M50	3	

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

3.CHECK ROOF MODULE CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- Map lamp
- Vanity mirror lamp (LH)
- Vanity mirror lamp (RH)
- Personal lamp
3. Check continuity between the roof module harness connector and each lamp harness connectors.

Roof module		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
R11	12	Map lamp	R15	10	Existed
				5	
		Vanity mirror lamp (LH)	R12	2	
		Vanity mirror lamp (RH)	R13	2	
		Personal lamp	R14	4	

Is the measurement value normal?

YES >> Hospitality lighting power supply 1 circuit is normal.
NO >> Repair the harnesses or connectors.

4.CHECK HOSPITALITY LIGHTING POWER SUPPLY 1 CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- Total illumination control unit
- Roof module
- Foot lamp (driver side)
- Foot lamp (passenger side)
- Mood lamp (rear door armrest LH)
- Mood lamp (rear door armrest RH)
- Push-button ignition switch
3. Check continuity between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	35		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> GO TO 5.

5. CHECK ROOF MODULE CIRCUIT FOR SHORT

1. Disconnect the following connectors.
- Map lamp
- Vanity mirror lamp (LH)
- Vanity mirror lamp (RH)
- Personal lamp
2. Check continuity between roof module harness connector and ground.

Roof module		Ground	Continuity
Connector	Terminal		
R11	12		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 2

Description

INFOID:0000000003941943

Total illumination control unit provides the following lamps power supply according to the battery saver signal from BCM.

- Puddle lamp
- Mood lamp (front door armrest)

Diagnosis Procedure

INFOID:0000000003941944

CAUTION:

Check the following circuit first if the other room lamps (Map lamp, personal lamps, foot lamps, each illumination, etc.) are not turned ON.

- **Power supply and ground circuit of total illumination control unit: Refer to INL-26, "TOTAL ILLUMINATION CONTROL UNIT : Diagnosis Procedure".**
- **Battery saver signal circuit: Refer to INL-30, "Description".**

1. CHECK HOSPITALITY LIGHTING POWER SUPPLY 2 OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between total illumination control unit harness connector and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	BATTERY SAVER	
Connector	Terminal			
M129	34		Off	0 V
			On	12 V

Is the measurement value normal?

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

2. CHECK HOSPITALITY LIGHTING POWER SUPPLY 2 CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the following connectors.

- Total illumination control unit
- Door mirror (driver side)
- Door mirror (passenger side)
- Mood lamp (front door armrest LH)
- Mood lamp (front door armrest RH)

3. Check continuity between total illumination control unit harness connector and each lamp harness connectors.

Total illumination control unit		Each interior room lamp			Continuity
Connector	Terminal	Connector		Terminal	
M129	34	Door mirror (driver side)	D3	2	Existed
		Door mirror (passenger side)	D33	2	
		Mood lamp (front door armrest LH)	D16	1	
		Mood lamp (front door armrest RH)	D46	1	

Does continuity exist?

YES >> Hospitality lighting power supply 2 circuit is normal.
NO >> Repair the harnesses or connectors.

3.CHECK HOSPITALITY LIGHTING POWER SUPPLY 2 CIRCUIT FOR SHORT

Check continuity between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	34		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 3

Description

INFOID:0000000003941956

Total illumination control unit provides the following illuminations power supply according to the battery saver signal from BCM.

Illuminations
- Trip computer switch
- Illumination control switch
- Multifunction switch
- Climate controlled seat switch
- LDW switch
- Snow mode switch
- Door mirror remote control switch
- AFS OFF switch
- Headlamp aiming switch
- Mode select switch
- Clock
- Steering switch
- IBA OFF switch
- DCA switch
- VDC OFF switch

Diagnosis Procedure

INFOID:0000000003941957

CAUTION:
Check the following circuit first if the other room lamps (Map lamp, personal lamps, foot lamps, puddle lamps, etc.) are not turned ON.
- **Power supply and ground circuit of total illumination control unit: Refer to INL-26, "TOTAL ILLUMINATION CONTROL UNIT : Diagnosis Procedure".**
- **Battery saver signal circuit: Refer to INL-30, "Description".**

1. CHECK HOSPITALITY LIGHTING POWER SUPPLY 3 OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Set the illumination control switch in maximum.
3. Select “BATTERY SAVER” of BCM (BATTERY SAVER) active test item.
4. While operating the test item, check voltage between total illumination control unit harness connector and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	BATTERY SAVER	
Connector	Terminal			
M129	33		Off	0 V
			On	12 V

Is the measurement value normal?

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

2. CHECK HOSPITALITY LIGHTING POWER SUPPLY 3 CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector and each illumination connectors.
3. Check continuity between total illumination control unit harness connector and each illumination harness connectors.

Total illumination control unit		Illuminations			Continuity
Connector	Terminal	Connector		Terminal	
M129	33	Meter control switch	M54	4	Existed
		Multifunction switch	M72	4	
		Climate controlled seat switch (driver side)	M177	7	
		Climate controlled seat switch (passenger side)	M178	7	
		LDW switch	M29	5	
		Snow mode switch	M176	5	
		Door mirror remote control switch	M20	16	
		AFS OFF switch	M21	5	
		Headlamp aiming switch	M15	3	
		Mode select switch	M179	4	
		Clock	M74	2	
		Combination switch	M36	23	
		IBA OFF switch	M184	5	
		DCA switch	M18	3	
		VDC OFF switch	M19	3	

Does continuity exist?

YES >> Hospitality lighting power supply 3 circuit is normal.
NO >> Repair the harnesses or connectors.

3. CHECK HOSPITALITY LIGHTING POWER SUPPLY 3 CIRCUIT FOR SHORT

Check continuity between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	33		Not existed

Does continuity exist?

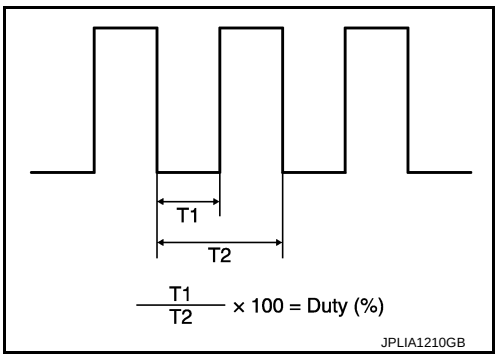
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

MAP LAMP CIRCUIT

Description

INFOID:0000000003890833

Controls the lamp (ground side) by PWM signal (duty) when the map lamp main switch is DOOR.



Component Function Check

INFOID:0000000003890834

CAUTION:

Check the following item first.

- **Hospitality lighting power supply 1 circuit (When both side lamps are not turned ON.)**
- **Map lamp bulbs**

1.CHECK MAP LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “MAP LAMP-DR” or “MAP LAMP-AS” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check map lamps operation.

Test item		Operation	
MAP LAMP-DR	On	Map lamp (driver side)	ON
	Off		OFF
MAP LAMP-AS	On	Map lamp (passenger side)	ON
	Off		OFF

Are the map lamps turned ON/OFF?

YES >> Map lamp circuit is normal.
NO >> Refer to INL-38, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003890835

1.CHECK MAP LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Switch map lamp main switch DOOR.
3. Select “MAP LAMP-DR” or “MAP LAMP-AS” of TOTAL ILLUM C/U active test item.
4. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Driver side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MAP LAMP-DR	
M129	18		On	0 V
			Off	12 V

Passenger side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MAP LAMP-AS	
M129	12		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 4.

3.CHECK MAP LAMP CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and map lamp connector.
3. Check continuity between the total illumination control unit harness connector and map lamp harness connector.

Total illumination control unit			Map lamp		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M129	18	R15	7	Existed
Passenger side		12		9	

Does continuity exist?

YES >> Replace the map lamp assembly.
NO >> Repair the harnesses or connectors.

4.CHECK MAP LAMP CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and map lamp connector.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
Driver side	M129	18		Not existed
Passenger side		12		

Does continuity exist?

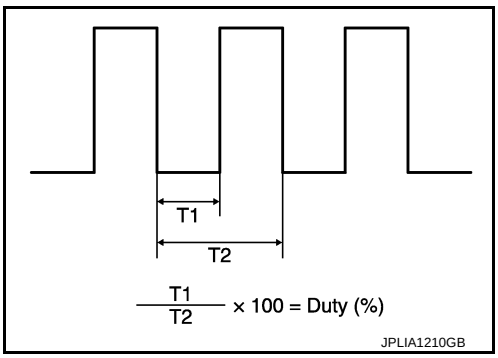
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

PERSONAL LAMP CIRCUIT

Description

INFOID:0000000003943172

Controls the lamp (ground side) by PWM signal (duty) when map lamp main switch is DOOR.



Component Function Check

INFOID:0000000003943173

CAUTION:

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

- **Hospitality lighting power supply 1 circuit (When both sides lamp are not turned ON.)**
- **Personal lamp bulbs**

1.CHECK PERSONAL LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “PERSONAL LAMP-RR” or “PERSONAL LAMP-RL” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check personal lamps operation.

Test item		Operation	
PERSONAL LAMP-RR	On	Personal lamp (RH)	ON
	Off		OFF
PERSONAL LAMP-RL	On	Personal lamp (LH)	ON
	Off		OFF

Are the personal lamps turned ON/OFF?

YES >> Personal lamp circuit is normal.
NO >> Refer to INL-40, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003943174

1.CHECK PERSONAL LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “PERSONAL LAMP-RR” or “PERSONAL LAMP-RR” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Personal lamp RH

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		PERSONAL LAMP-RR	
M129	14		On	0 V
			Off	12 V

Personal lamp LH

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		PERSONAL LAMP-RL	
M129	13		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 4.

3.CHECK PERSONAL LAMP CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and personal lamp connectors.
3. Check continuity between the total illumination control unit harness connector and personal lamp harness connector.

Total illumination control unit			Personal lamp		Continuity
Connector		Terminal	Connec-tor	Terminal	
RH	M129	14	R14	3	Existed
LH		13		1	

Does continuity exist?

YES >> Replace the personal lamp assembly.
NO >> Repair the harnesses or connectors.

4.CHECK PERSONAL LAMP CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and personal lamp connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
RH	M129	14		Not existed
LH		13		

Does continuity exist?

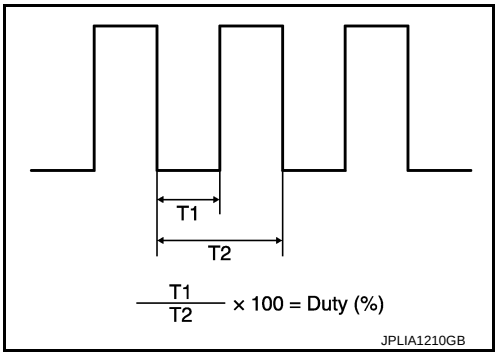
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

CENTER CONSOLE INDIRECT ILLUMINATION CIRCUIT

Description

INFOID:0000000003943186

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003943187

1.CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “AMBIENCE LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check center console indirect illumination operation.

Test item		Operation	
AMBIENCE LAMP	On	Center console indirect illumination	ON
	Off		OFF

Is the center console indirect illumination turned ON/OFF?

YES >> Center console indirect illumination circuit is normal.
NO >> Refer to INL-42, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003943188

1.CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “AMBIENCE LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		AMBIENCE LAMP	
M129	20		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3. CHECK CENTER CONSOLE INDIRECT ILLUMINATION POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect the map lamp connector.
3. Turn ignition switch ON.
4. Check voltage between the map lamp harness connector and ground.

Map lamp		Ground	Voltage (Approx.)
Connector	Terminal		
R15	5		12 V

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 1. Refer to INL-31, "Diagnosis Procedure".

4. CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and map lamp harness connector.

Total illumination control unit		Map lamp		Continuity
Terminal		Connector	Terminal	
M129	20	R15	6	Existed

Does continuity exist?

YES >> Replace the map lamp assembly.
NO >> Repair the harnesses or connectors.

5. CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and map lamp connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	20		Not existed

Does continuity exist?

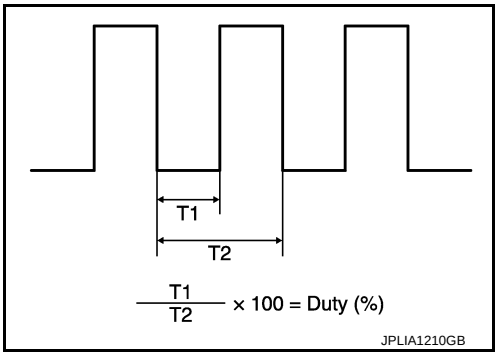
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

FOOT LAMP CIRCUIT

Description

INFOID:0000000003943189

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003943190

CAUTION:
Check foot lamp bulbs first.

1.CHECK FOOT LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “FOOT LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check foot lamps operation.

Test item		Operation	
FOOT LAMP	On	Foot lamps	ON
	Off		OFF

Are the foot lamps turned ON/OFF?

YES >> Foot lamp circuit is normal.
NO >> Refer to INL-49, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003943191

1.CHECK FOOT LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “FOOT LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Driver side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		FOOT LAMP	
M129	36		On	0 V
			Off	12 V

Passenger side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		FOOT LAMP	
M129	16		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK FOOT LAMP POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect the foot lamp connector.
3. Turn ignition switch ON.
4. Check voltage between the foot lamp harness connector and ground.

Foot lamp			Ground	Voltage (Approx.)
Connector		Terminal		
Driver side	M30	1		12 V
Passen-ger side	M130	1		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 1. Refer to INL-31, "Diagnosis Procedure".

4.CHECK FOOT LAMP CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and foot lamp harness connector.

Total illumination control unit			Foot lamp		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M129	36	M30	2	Existed
Passen-ger side		16	M130	2	

Does continuity exist?

YES >> Replace the foot lamp.
NO >> Repair the harnesses or connectors.

5.CHECK FOOT LAMP CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and foot lamp connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
Driver side	M129	36		Not existed
Passen-ger side		16		

Does continuity exist?

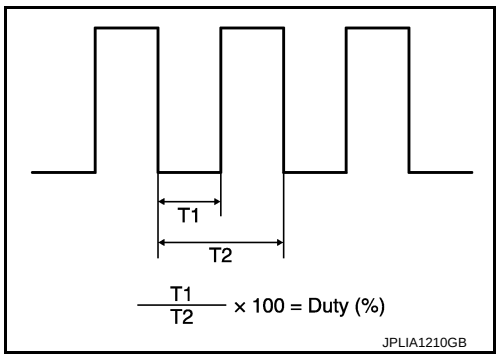
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

PUDDLE LAMP CIRCUIT

Description

INFOID:0000000003943192

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003943193

1. CHECK PUDDLE LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “PUDDLE LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check puddle lamps operation.

Test item		Operation	
PUDDLE LAMP	On	Puddle lamps	ON
	Off		OFF

Are the puddle lamps turned ON/OFF?

YES >> Puddle lamp circuit is normal.
NO >> Refer to INL-47, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003943194

1. CHECK PUDDLE LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select “PUDDLE LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Driver side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		PUDDLE LAMP	
M129	40		On	0 V
			Off	12 V

Passenger side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		PUDDLE LAMP	
M129	39		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK PUDDLE LAMP POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect the door mirror connector.
3. Turn ignition switch ON.
4. Check voltage between the door mirror lamp harness connector and ground.

Door mirror			Ground	Voltage (Approx.)
Connector		Terminal		
Driver side	D3	2		12 V
Passen-ger side	D33	2		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 2. Refer to INL-31, "Diagnosis Procedure".

4.CHECK PUDDLE LAMP CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and door mirror harness connector.

Total illumination control unit			Door mirror		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	M129	40	D3	14	Existed
Passen-ger side		39	D33	14	

Does continuity exist?

YES >> Replace the puddle lamp.
NO >> Repair the harnesses or connectors.

5.CHECK PUDDLE LAMP CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and puddle lamp connector.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
Driver side	M129	40		Not existed
Passen-ger side		39		

Does continuity exist?

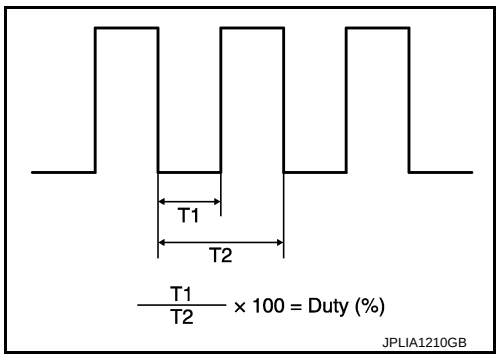
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

MOOD LAMP (FRONT DOOR ARMREST) CIRCUIT

Description

INFOID:0000000003943195

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003943196

1. CHECK MOOD LAMP (FRONT DOOR ARMREST) CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “MOOD LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check mood lamp (front door armrest) operation.

Test item		Operation	
MOOD LAMP	On	Mood lamp (front door armrest)	ON
	Off		OFF

Are the mood lamps (front door armrest) turned ON/OFF?

YES >> Mood lamp (front door armrest) circuit is normal.
NO >> Refer to INL-49, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003943197

1. CHECK MOOD LAMP (FRONT DOOR ARMREST) CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “MOOD LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Mood lamp (front door armrest RH)

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MOOD LAMP	
M129	10		On	0 V
			Off	12 V

Mood lamp (front door armrest LH)

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MOOD LAMP	
M129	30		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.

Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK MOOD LAMP (FRONT DOOR ARMREST) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect the mood lamp (front door armrest) connector.
3. Turn ignition switch ON.
4. Check voltage between the mood lamp (front door armrest) harness connector and ground.

Mood lamp (front door armrest)			Ground	Voltage (Approx.)
Connector		Terminal		
RH	D46	1		12 V
LH	D16	1		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 2. Refer to INL-31, "Diagnosis Procedure".

4.CHECK MOOD LAMP (FRONT DOOR ARMREST) CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and mood lamp (front door armrest) harness connector.

Total illumination control unit			Mood lamp (front door armrest)		Continuity
Connector		Terminal	Connector	Terminal	
RH	M129	10	D46	2	Existed
LH		30	D16	2	

Does continuity exist?

YES >> Replace the mood lamp (front door armrest).
NO >> Repair the harnesses or connectors.

5.CHECK MOOD LAMP (FRONT DOOR ARMREST) CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and mood lamp (front door armrest) connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
RH	M129	10		Not existed
LH		30		

Does continuity exist?

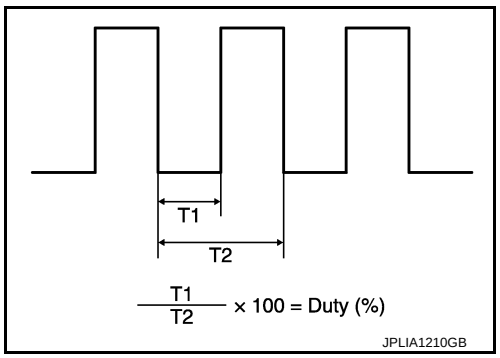
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000003959112

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003824836

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “ENGINE SWITCH ILLUMINATION” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check the push-button ignition switch illumination operation.

Test item		Operation	
ENGINE SWITCH ILLUMINATION	On	Push-button ignition switch illumination	ON
	Off		OFF

Is the push-button ignition switch illumination turned ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to INL-51, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003959113

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “ENGINE SWITCH ILLUMINATION” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Driver side

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		ENGINE SWITCH ILLUMINATION	
M129	19		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.

Fixed ON>>GO TO 5.

3. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY

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

Push-button ignition switch		Ground	Voltage (Approx.)
Connector	Terminal		
M50	3		12 V

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 1. Refer to INL-31, "Diagnosis Procedure".

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and push-button ignition switch illumination harness connector.

Total illumination control unit		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M129	19	M50	2	Existed

Does continuity exist?

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

5. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL CIRCUIT FOR SHORT

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

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	19		Not existed

Does continuity exist?

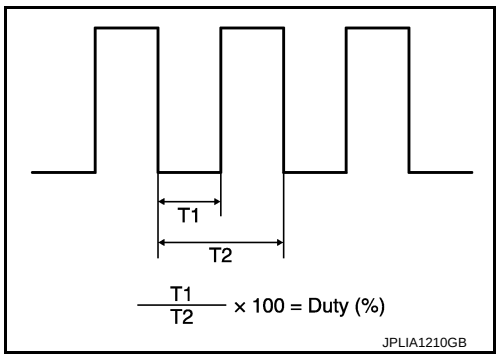
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

MOOD LAMP (REAR DOOR ARMREST) CIRCUIT

Description

INFOID:0000000003944223

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003944224

1. CHECK MOOD LAMP (REAR DOOR ARMREST) CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “MOOD LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check mood lamp (rear door armrest) operation.

Test item		Operation	
MOOD LAMP	On	Mood lamp (rear door armrest)	ON
	Off		OFF

Are the mood lamps (rear door armrest) turned ON/OFF?

YES >> Mood lamp (rear door armrest) circuit is normal.
NO >> Refer to INL-53, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003944225

1. CHECK MOOD LAMP (REAR DOOR ARMREST) CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “MOOD LAMP” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Mood lamp (rear door armrest RH)

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MOOD LAMP	
M129	11		On	0 V
			Off	12 V

Mood lamp (rear door armrest LH)

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		MOOD LAMP	
M129	31		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.

Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK MOOD LAMP (REAR DOOR ARMREST) POWER SUPPLY

1. Turn ignition switch OFF.
2. Connect the total illumination control unit connector.
3. Disconnect the mood lamp (rear door armrest) connector.
4. Turn ignition switch ON.
5. Check voltage between the mood lamp (rear door armrest) harness connector and ground.

Mood lamp (rear door armrest)			Ground	Voltage (Approx.)
Connector		Terminal		
RH	D78	1		12 V
LH	D58	1		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 1. Refer to INL-31, "Diagnosis Procedure".

4.CHECK MOOD LAMP (REAR DOOR ARMREST) CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and mood lamp (rear door armrest) harness connector.

Total illumination control unit			Mood lamp (rear door armrest)		Continuity
Connector		Terminal	Connector	Terminal	
RH	M129	11	D78	2	Existed
LH		31	D58	2	

Does continuity exist?

YES >> Replace the mood lamp (rear door armrest).
NO >> Repair the harnesses or connectors.

5.CHECK MOOD LAMP (REAR DOOR ARMREST) CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and mood lamp (rear door armrest) connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
RH	M129	11		Not existed
LH		31		

Does continuity exist?

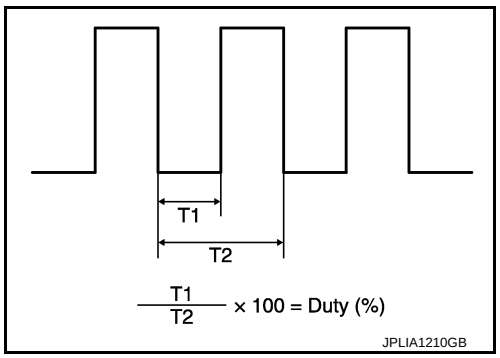
YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

HOSPITALITY ILLUMINATION CIRCUIT

Description

INFOID:0000000003958576

Controls the lamp (ground side) by PWM signal (duty).



Component Function Check

INFOID:0000000003958577

1.CHECK ILLUMINATION CONTROL FUNCTION

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “HSPL ILLUMINATION” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check the illuminations operation.

Test item		Operation	
HSPL ILLUMINATION	On	Illuminations	ON
	Off		OFF

Are the illuminations turned ON/OFF?

YES >> Hospitality illumination circuit is normal.
NO >> Refer to INL-55, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003958578

1.CHECK ILLUMINATION CONTROL OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “HSPL ILLUMINATION” of TOTAL ILLUM C/U active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		HSPL ILLU-MINATION	
M129	17		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that each illumination fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK EACH ILLUMINATION POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect each illumination connectors.
3. Turn ignition switch ON.
4. Check voltage between each illumination harness connectors and ground.

Illuminations				Voltage (Approx.)
Connector		Terminal		
Meter control switch	M54	4	Ground	12 V
Multifunction switch	M72	4		
Climate controlled seat switch (driver side)	M177	7		
Climate controlled seat switch (passenger side)	M178	7		
LDW switch	M29	5		
Snow mode switch	M176	5		
Door mirror remote control switch	M20	16		
AFS OFF switch	M21	5		
Headlamp aiming switch	M15	3		
Mode select switch	M179	4		
Clock	M74	2		
Combination switch	M36	23		
IBA OFF switch	M184	5		
DCA switch	M18	3		
VDC OFF switch	M19	3		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the hospitality lighting power supply circuit 3. Refer to INL-31, "Diagnosis Procedure".

4.CHECK ILLUMINATION CONTROL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector.
3. Check continuity between the total illumination control unit harness connector and each illumination harness connectors.

Total illumination control unit		Illuminations			Continuity
Connector	Terminal	Connector		Terminal	
M129	17	Meter control switch	M54	5	Existed
		Multifunction switch	M72	5	
		Climate controlled seat switch (driver side)	M177	8	
		Climate controlled seat switch (passenger side)	M178	8	
		LDW switch	M29	4	
		Snow mode switch	M176	6	
		Door mirror remote control switch	M20	15	
		AFS OFF switch	M21	6	
		Headlamp aiming switch	M15	4	
		Mode select switch	M179	2	
		Clock	M74	1	
		Combination switch	M36	26	
		IBA OFF switch	M184	4	
		DCA switch	M18	4	
		VDC OFF switch	M19	4	

Does continuity exist?

YES >> Replace each illumination.
NO >> Repair the harnesses or connectors.

5. CHECK ILLUMINATION CONTROL CIRCUIT FOR SHORT

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector and each illumination connectors.
3. Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	17		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

STEP LAMP CIRCUIT

Description

INFOID:0000000003824830

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

Component Function Check

INFOID:0000000003824831

CAUTION:
Check step lamp bulbs first.

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. While operating the test items, check the step lamp operation.

Test item		Operation	
STEP LAMP TEST	On	Step lamps	ON
	Off		OFF

Are the step lamps turned ON/OFF?

YES >> Step lamp circuit is normal.
NO >> Refer to INL-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003824832

1.CHECK STEP LAMP OUTPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “STEP LAMP TEST” of BCM (INT LAMP) active test item.
3. While operating the test item, check continuity between BCM harness connector and ground.

BCM		Ground	Test item	Continuity
Connector	Terminal		STEP LAMP TEST	
M119	7		On	0 V
			Off	12 V

Is the measurement value normal?

Fixed at 12 V>>Replace BCM.
Fixed at 0 V>>GO TO 2.

2.CHECK THE SYMPTOM

Check that the lamp fixed to ON or OFF.

Fixed OFF>>GO TO 3.
Fixed ON>>GO TO 5.

3.CHECK STEP LAMP POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect the step lamp connector.
3. Turn ignition switch ON.
4. Check voltage between the step lamp harness connector and ground.

Step lamp			Ground	Voltage (Approx.)
Connector		Terminal		
Driver side	D12	1		
Passenger side	D42	1		12 V
Rear LH	D59	1		
Rear RH	D79	1		

Is the measurement value normal?

YES >> GO TO 4.
NO >> Check the interior room lamp power supply. Refer to INL-28, "Diagnosis Procedure".

4. CHECK STEP LAMP OPEN CIRCUIT

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

BCM		Step lamp			Continuity
Connector	Terminal	Connector		Terminal	
M119	7	Driver side	D12	2	Existed
		Passenger side	D42	2	
		Rear LH	D59	2	
		Rear RH	D79	2	

Does continuity exist?

YES >> Replace the step lamp.
NO >> Repair the harnesses or connectors.

5. CHECK STEP LAMP SHORT CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M119	7		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace BCM.

TAIL LAMP SIGNAL CIRCUIT

Description

INFOID:0000000003902668

Total illumination control unit inputs tail lamp signal from IPDM E/R.

Component Function Check

INFOID:0000000003941722

NOTE:
Check the tail lamp circuit if the tail lamp is not turned ON. Refer to EXL-88, "Component Function Check".

1.CHECK TAIL LAMP SIGNAL INPUT WITH CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch ON.
2. Select “TAIL LAMP SIGNAL” of TOTAL ILLUM C/U data monitor item.
3. While operating the lighting switch, check the monitor status.

Monitor item	Condition	Monitor status
	Lighting switch	
TAIL LAMP SIGNAL	OFF	Off
	1ST	On

Is the measurement value normal?

YES >> Tail lamp signal circuit is normal.
NO >> Refer to INL-60, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003902670

1.CHECK TAIL LAMP INPUT SIGNAL

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “EXTERNAL LAMPS” of IPDM E/R active test item.
3. While operating the test item, check the voltage between the total illumination control unit and ground.

Terminals			Test item	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	EXTERNAL LAMPS	
Connector	Terminal			
M129	4		TAIL	Battery voltage
			Off	0 V

Is the measurement value normal?

YES >> Replace the total illumination control unit.
NO >> GO TO 2.

2.CHECK TAIL LAMP SIGNAL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the IPDM E/R harness connector and total illumination harness connector.
3. Check continuity between the IPDM E/R harness connector and total illumination harness connector.

IPDM E/R		Total illumination control unit		Continuity
Connector	Terminal	Connector	Terminal	
E5	7	M129	4	Existed

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

3. CHECK TAIL LAMP SIGNAL CIRCUIT FOR SHORT

Check continuity between the total illumination control unit and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	4		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the IPDM E/R.

ILLUMINATION CONTROL SIGNAL CIRCUIT

Component Function Check

INFOID:0000000003902671

1.CHECK ILLUMINATION CONTROL SIGNAL INPUT BY CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch ON.
2. Switch the lighting switch 1ST.
3. Select “ILLUM CONT SIGNAL” of TOTAL ILLUM C/U data monitor item.
4. While operating the illumination control switch, check the monitor status.

Monitor item	Condition		Monitor status
ILLUM CONT SIGNAL	Brightness level	Maximum	100 %
		Midway	50 %
		Minimum	0 %

Is the item status normal?

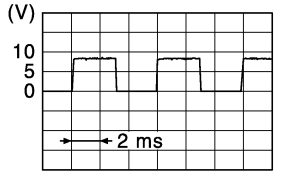
YES >> Illumination control signal circuit is normal.
NO >> Refer to INL-62, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003902672

1.CHECK ILLUMINATION CONTROL SIGNAL INPUT

1. Switch the lighting switch 1ST.
2. While operating the illumination control switch, check the voltage between the total illumination control unit harness connector and the ground.

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit			Brightness level	
Connector	Terminal			
M129	24	Ground	Maximum	0 V
			Midway	 JPLIA1199ZZ
			Minimum	8 V

Is the measurement value normal?

YES >> Replace the total illumination control unit.
NO >> GO TO 2.

2.CHECK ILLUMINATION CONTROL SIGNAL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit connector and the combination meter connector.
3. Check continuity between the total illumination control unit harness connector and the combination meter harness connector.

Total illumination control unit		Combination meter		Continuity
Connector	Terminal	Connector	Terminal	
M129	24	M53	34	Existed

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

3. CHECK ILLUMINATION CONTROL SIGNAL SHORT CIRCUIT

1. Disconnect the selector lever position indicator connector.
2. Check continuity between the total illumination control unit harness connector and the ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	24		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the total illumination control unit.

MAP LAMP SWITCH CIRCUIT

Component Function Check

INFOID:0000000003942855

1.CHECK MAP LAMP SWITCH SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch ON.
2. Select “MAP LAMP SW” of TOTAL ILLUM C/U data monitor item.
3. While operating the map lamp main switch, check the monitor status.

Monitor item	Condition		Monitor status
MAP LAMP SW	Map lamp main switch	DOOR	Door
		ON	All On
		OFF	Off

Is the item status normal?

YES >> Map lamp main switch circuit is normal.
NO >> Refer to INL-64, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003942856

1.CHECK MAP LAMP SWITCH SIGNAL INPUT

1. Turn ignition switch ON.
2. While operating the map lamp main switch, check the voltage between the total illumination control unit harness connector and ground.

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	Map lamp main switch	
Connector	Terminal			
M129	26		DOOR	0 V
			OFF or ALL ON	5 V
	27		ALL ON	0 V
			OFF or DOOR	5 V

Is the measurement value normal?

YES >> Replace the total illumination control unit.
NO >> GO TO 2.

2.CHECK MAP LAMP MAIN SWITCH

1. Turn ignition switch OFF.
2. Disconnect total illumination control unit connector.
3. While operating the map lamp main switch, check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Condition	Continuity
Connector	Terminal		Map lamp main switch	
M129	26		DOOR	Existed
			ALL ON	Not existed
			OFF	Not existed
	27		DOOR	Not existed
			ALL ON	Existed
			OFF	Not existed

Is the measurement value normal?

YES >> Replace the total illumination control unit.
NO >> GO TO 3.

3.CHECK MAP LAMP SWITCH SIGNAL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the map lamp connector.
3. Check continuity between the total illumination control unit harness connector and map lamp harness connector.

Total illumination control unit		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	
M129	26	R15	1	Existed
	27		2	

Does continuity exist?

YES >> GO TO 4.
NO >> Repair the harnesses or connectors.

4.CHECK MAP LAMP SWITCH SIGNAL CIRCUIT FOR SHORT

Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	26		Not existed
	27		

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> GO TO 5.

5.CHECK MAP LAMP MAIN SWITCH GROUND CIRCUIT FOR OPEN

Check continuity between the map lamp harness connector and ground.

Map lamp		Ground	Continuity
Connector	Terminal		
R15	3		Existed

Does continuity exist?

YES >> Replace the map lamp assembly (map lamp main switch).
NO >> Repair the harness or connector.

DOOR SWITCH CIRCUIT

Component Function Check

INFOID:0000000003942089

1.CHECK EACH DOOR SWITCH SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch ON.
2. Select “DOOR SW-DR”, “DOOR SW-AS”, “DOOR SW-RR” and “DOOR SW-RL” of TOTAL ILLUM C/U data monitor item.
3. While operating each door switch, check the monitor status.

Monitor item	Condition		Monitor status
DOOR-SW-DR	Front door (driver side)	Open	On
		Close	Off
DOOR-SW-AS	Front door (passenger side)	Open	On
		Close	Off
DOOR-SW-RR	Rear door (RH)	Open	On
		Close	Off
DOOR-SW-RL	Rear door (LH)	Open	On
		Close	Off

Is the item status normal?

YES >> Each door switch circuit is normal.
NO >> Refer to INL-66, "Diagnosis Procedure".

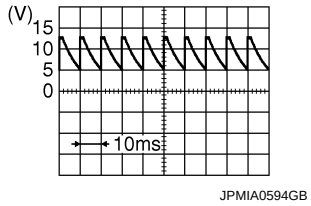
Diagnosis Procedure

INFOID:0000000003942090

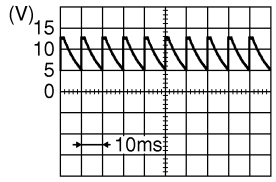
1.CHECK EACH DOOR SWITCH INPUT SIGNAL

While operating each door switch, check the voltage between the total illumination control unit harness connector and the ground.

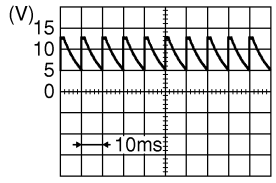
Front door (driver side)

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit			Door	
Connector	Terminal			
M129	29	Ground	Open	0 V
			Close	 JPMIA0594GB 8.5 - 9.0 V

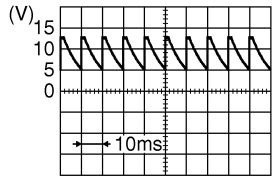
Front door (passenger side)

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	Door	
Connector	Terminal			
M129	8		Open	0 V
			Close	 JPMIA0594GB 8.5 - 9.0 V

Rear door (LH)

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	Door	
Connector	Terminal			
M129	9		Open	0 V
			Close	 JPMIA0594GB 8.5 - 9.0 V

Rear door (RH)

Terminals			Condition	Voltage (Approx.)
(+)		(–)		
Total illumination control unit		Ground	Door	
Connector	Terminal			
M129	25		Open	0 V
			Close	 JPMIA0594GB 8.5 - 9.0 V

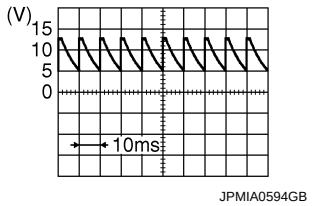
Is the measurement value normal?

Fixed at 8.5 - 9.5 V>>Replace the total illumination control unit.
Fixed at 0 V>>GO TO 2.

2.CHECK TOTAL ILLUMINATION CONTROL UNIT (INTERNAL SHORT)

1. Turn ignition switch OFF.

2. Disconnect the total illumination control unit connector.
3. Turn ignition switch ON.
4. Check voltage between the total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Voltage (Approx.)
Connector		Terminal		
Front door (driver side)	M129	29	Ground	 JPMIA0594GB 8.5 - 9.0 V
Front door (passenger side)		8		
Rear door (LH)		9		
Rear door (RH)		25		

Does continuity exist?

YES >> Replace the total illumination control unit.
NO >> GO TO3.

3.CHECK EACH DOOR SWITCH SIGNAL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect each door switch connector.
3. Check continuity between the total illumination control unit harness connector and each door switch harness connector.

Total illumination control unit			Door switch		Continuity
Connector		Terminal	Connector	Terminal	
Front door (driver side)	M129	29	B16	2	Existed
Front door (passenger side)		8	B216	2	
Rear door (LH)		9	B23	2	
Rear door (RH)		25	B223	2	

Does continuity exist?

YES >> GO TO 4.
NO >> Repair the harnesses or connectors.

4.CHECK EACH DOOR SWITCH SIGNAL CIRCUIT FOR SHORT

Check continuity between total illumination control unit harness connector and ground.

Total illumination control unit			Ground	Continuity
Connector		Terminal		
Front door (driver side)	M129	29	Ground	Not existed
Front door (passenger side)		8		
Rear door (LH)		9		
Rear door (RH)		25		

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Check each door switch. Refer to DLK-71, "Component Inspection".

ROOM LAMP REQUEST SIGNAL CIRCUIT

Component Function Check

INFOID:0000000003944213

1.CHECK ROOM LAMP TIMER SETTING

CONSULT-III WORK SUPPORT
1. Select “SET I/L D-UNLCK INTCON” of BCM (INT LAMP) work support item.
2. Check the setting status.

Work support item	Setting status
SET I/L D-UNLCK INTCON	On

Is the setting “On”?

YES >> GO TO 2.
NO >> Change the setting to “On”

2.CHECK ROOM LAMP TIMER SIGNAL BY CONSULT-III

CONSULT-III DATA MONITOR
1. Turn ignition switch OFF.
2. Select “ROOM LAMP REQ” of TOTAL ILLUM C/U data monitor item.
3. While operating the door lock/door unlock, check the monitor status.

Monitor item	Condition	Monitor status
ROOM LAMP REQ	Door is unlocked	On
	Door is locked	Off

Is the item status normal?

YES >> Room lamp timer signal circuit is normal.
NO >> Refer to INL-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000003944214

1.CHECK ROOM LAMP TIMER SIGNAL INPUT

CONSULT-III ACTIVE TEST
1. Turn ignition switch ON.
2. Select “INT LAMP” of BCM (INT LAMP) active test item.
3. While operating the test items, check voltage between total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Test item	Voltage (Approx.)
Connector	Terminal		INT LAMP	
M129	28		On	5 V
			Off	0 V

Is the measurement value normal?

YES >> Replace the total illumination control unit.
NO >> GO TO 2.

2.CHECK ROOM LAMP TIMER SIGNAL CIRCUIT FOR OPEN

1. Turn ignition switch OFF.
2. Disconnect the total illumination control unit and BCM connectors.
3. Check continuity between the total illumination control unit harness connector and BCM harness connector.

Total illumination control unit		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M129	28	M119	19	Existed

Does continuity exist?

YES >> GO TO 3.
NO >> Repair the harnesses or connectors.

3. CHECK ROOM LAMP TIMER SIGNAL FOR SHORT

Check continuity between the total illumination control unit harness connector and ground.

Total illumination control unit		Ground	Continuity
Connector	Terminal		
M129	28		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.
NO >> Replace the BCM.

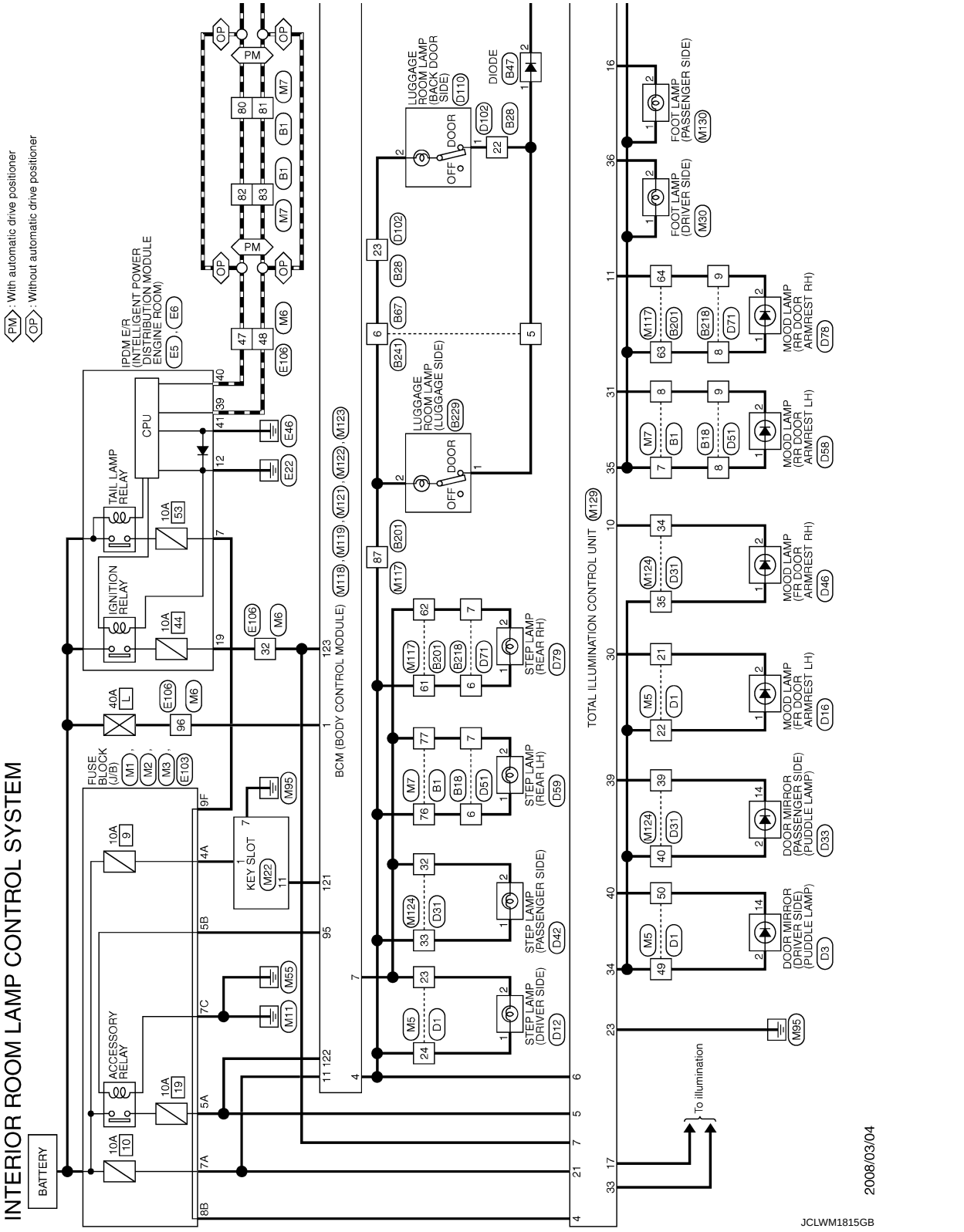
Diagnosis Procedure

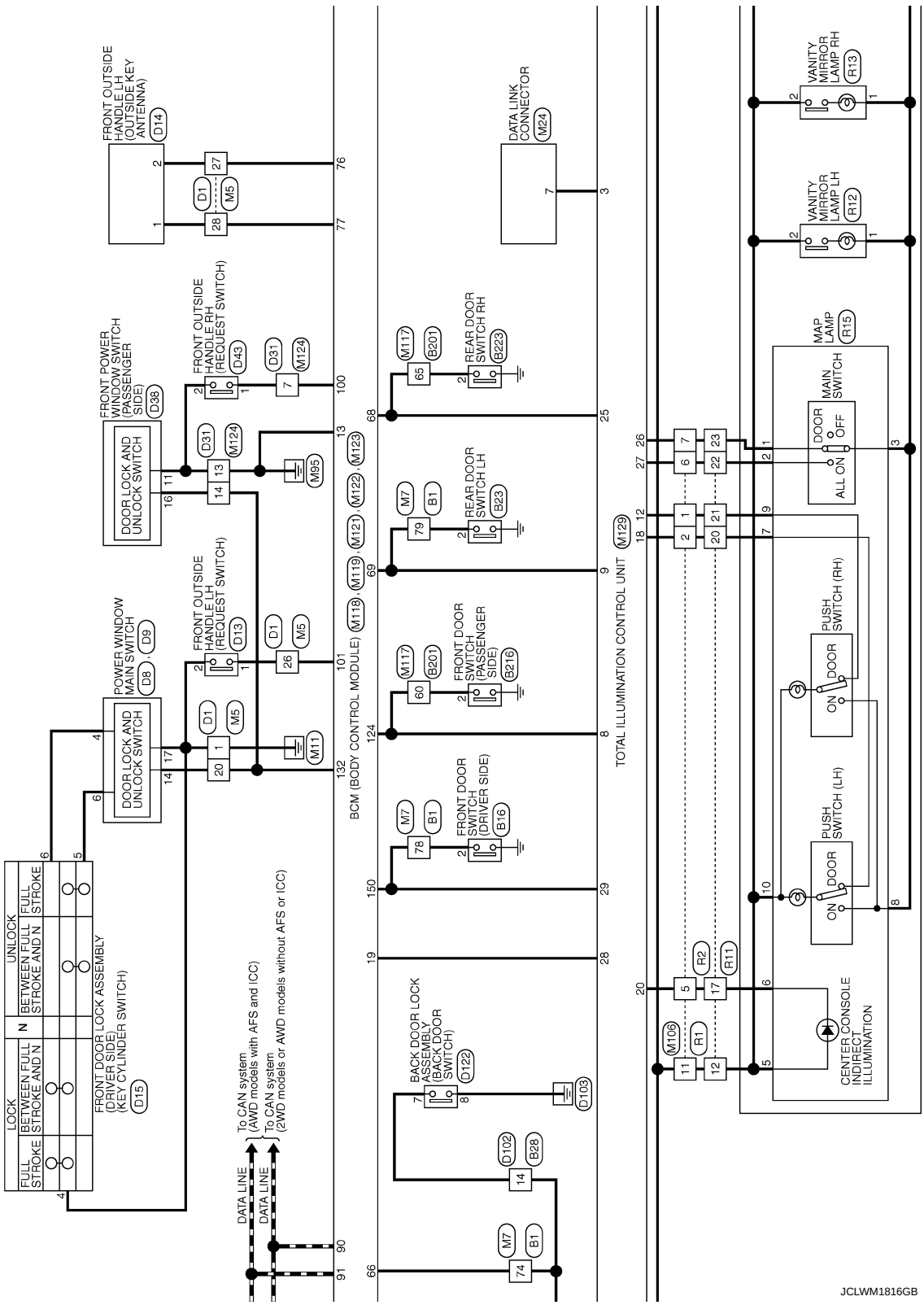
INFOID:0000000003948248

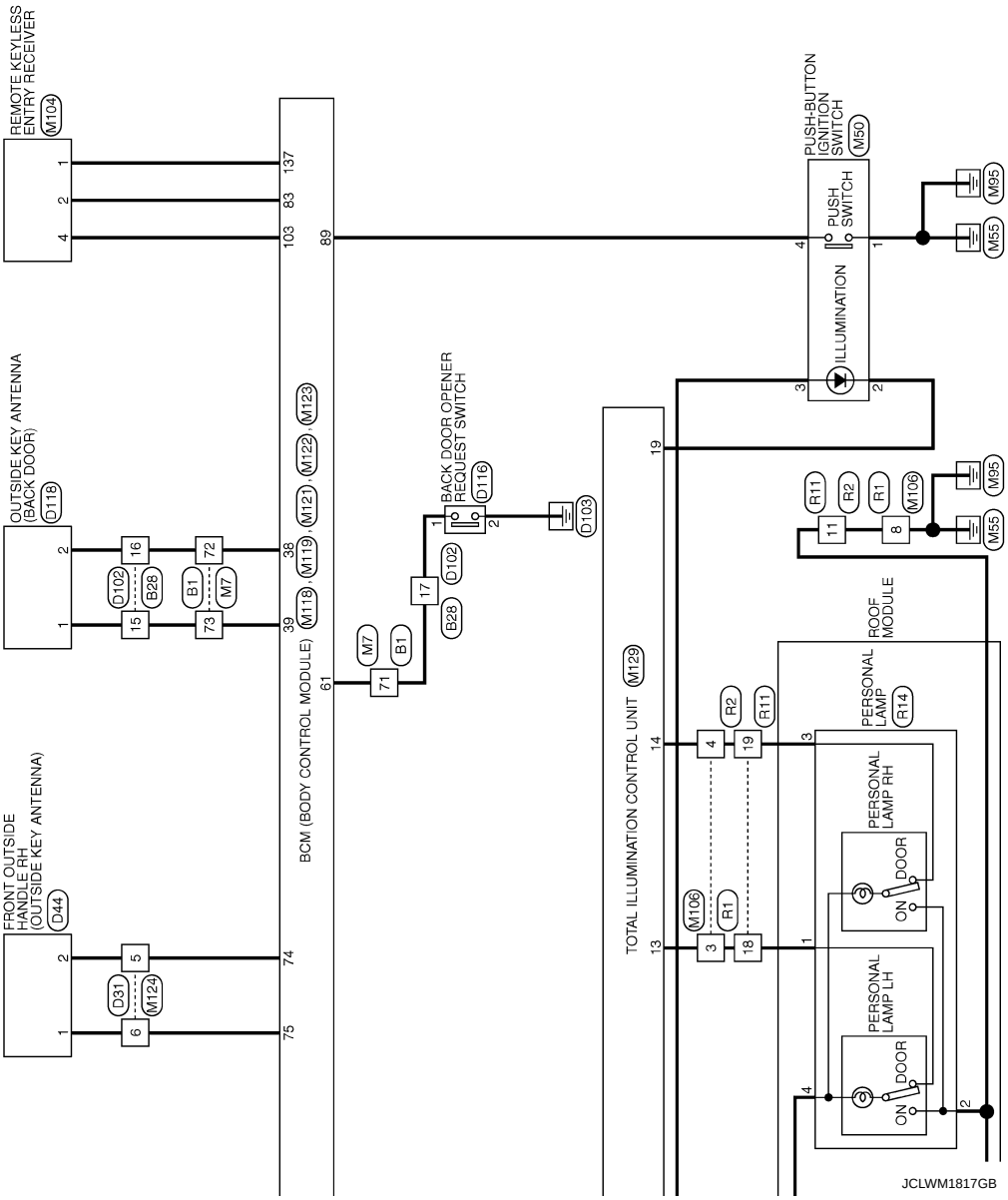
INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:0000000003824838

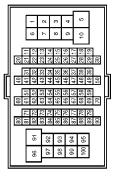



FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) D14
DATA LINK CONNECTOR M24
VANITY MIRROR LAMP RH R13
VANITY MIRROR LAMP LH R12
FRONT POWER WINDOW SWITCH (PASSENGER SIDE) D38
FRONT OUTSIDE HANDLE RH (REQUEST SWITCH) D43
REAR DOOR SWITCH RH B223
MAP LAMP R15
DOOR LOCK AND UNLOCK SWITCH
POWER WINDOW MAIN SWITCH D8, D9
FRONT OUTSIDE HANDLE LH (REQUEST SWITCH) D13
REAR DOOR SWITCH LH B23
DOOR MAIN SWITCH OFF ALL ON
FRONT DOOR SWITCH (PASSENGER SIDE) B216
PUSH SWITCH (RH)
FRONT DOOR SWITCH (DRIVER SIDE) B16
PUSH SWITCH (LH)
BCM (BODY CONTROL MODULE) M118, M119, M121, M122, M123
TOTAL ILLUMINATION CONTROL UNIT M129
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH) D122
CENTER CONSOLE INDIRECT ILLUMINATION
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (KEY CYLINDER SWITCH) D15
LOCK
UNLOCK
FULL STROKE
BETWEEN FULL STROKE AND N
N
BETWEEN FULL STROKE AND N
FULL STROKE
To CAN system (AWD models with AFS and ICC)
To CAN system (2WD models or AWD models without AFS or ICC)
DATA LINE
DATA LINE
JCLWM1816GB


REMOTE KEYLESS ENTRY RECEIVER
M104
OUTSIDE KEY ANTENNA (BACK DOOR)
D118
FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
D44
BCM (BODY CONTROL MODULE)
M123
M122
M121
M119
M118
BACK DOOR OPENER REQUEST SWITCH
D116
D103
PUSH-BUTTON IGNITION SWITCH
M50
PUSH SWITCH
ILLUMINATION
M95
M55
TOTAL ILLUMINATION CONTROL UNIT
M129
ROOM MODULE
PERSONAL LAMP
R14
PERSONAL LAMP RH
PERSONAL LAMP LH
DOOR
ON
M106
R1
R2
R11
D102
B28
B1
M7
D31
M124
JCLWM1817GB

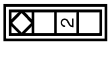
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B1		
Connector Name	WIRE TO WIRE		
Connector Type	TH80FW-CS16-TM4		
	81	P	–
	82	L	–
	83	P	–



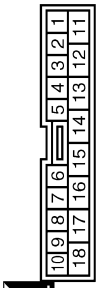
Terminal No.	Color of Wire	Signal Name [Specification]
7	V	–
8	O	–
71	G	–
72	B	–
73	W	–
74	V	–
76	LG	–
77	L	–
78	GR	–
79	W	–
80	L	–

Connector No.	B16	
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	
Connector Type	A03FW	
	2	GR



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B18	
Connector Name	WIRE TO WIRE	
Connector Type	TK10FW-NS8	
	6	LG
	7	L
	8	V
	9	O



Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	–
7	L	–
8	V	–
9	O	–

Connector No.	B23	
Connector Name	REAR DOOR SWITCH LH	
Connector Type	A03FW	
	2	W

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

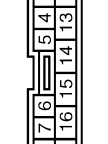
Connector No.	B28	
Connector Name	WIRE TO WIRE	
Connector Type	TH24MW-NH	
	14	V
	15	W
	16	B
	17	G
	22	GR
	23	L

Terminal No.	Color of Wire	Signal Name [Specification]
14	V	–
15	W	–
16	B	–
17	G	–
22	GR	–
23	L	–

Connector No.	B47	
Connector Name	DIODE	
Connector Type	24335-C9900	
	1	GR
	2	LG

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	LG	–

Connector No.	B67	
Connector Name	WIRE TO WIRE	
Connector Type	NS08MW-CS	
	5	GR
	6	L



Terminal No.	Color of Wire	Signal Name [Specification]
5	GR	–
6	L	–

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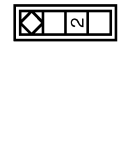
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
60	GR	–
61	LG	–
62	SB	–
63	V	–
64	BR	–
65	O	–
87	L	–

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TK03FW

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

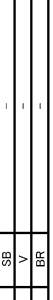
Connector No.	B241
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	L	–

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	–
7	SB	–
8	V	–
9	BR	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
49	R	–
50	B	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
2	O	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
14	B	–

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INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
4	V	–
6	Y	–
14	V	–

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	SB	–

Connector No.	D13
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL-B

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

Connector No.	D14
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY

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

Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
4	B	–
5	Y	–
6	V	–

Connector No.	D16
Connector Name	MOOD LAMP(FR DOOR ARMREST LH)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	Y	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	P	–
7	G	–
13	B	–
14	V	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
39	O	–
40	Y	–

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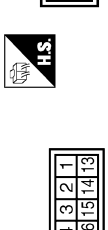
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
14	O	–

Connector No.	D38
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–
16	V	–

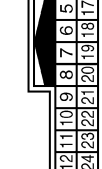
Connector No.	D42
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	TB02FW

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

Connector No.	D43
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL-B

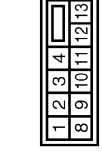
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–

Connector No.	D44
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY



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

Connector No.	D46
Connector Name	MOOD LAMP(FR DOOR ARMREST RH)
Connector Type	TK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	Y	–

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
7	O	–
8	Y	–
9	BR	–

Connector No.	D58
Connector Name	MOOD LAMP(RR DOOR ARMREST LH)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	BR	–

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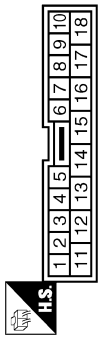
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D59
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW

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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
7	O	–
8	Y	–
9	BR	–

Connector No.	D78
Connector Name	MOOD LAMP(RR DOOR ARMREST RH)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	BR	–

Connector No.	D79
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW

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

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
14	SB	–
15	BR	–
16	R	–
17	V	–
22	GR	–
23	L	–

Connector No.	D110
Connector Name	LUGGAGE ROOM LAMP (BACK DOOR SIDE)
Connector Type	TK03FW

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

Connector No.	D116
Connector Name	BACK DOOR OPENER REQUEST SWITCH
Connector Type	TK02MBR-P

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

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY

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

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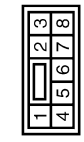
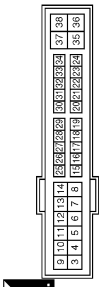
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D122
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



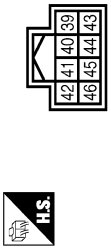
Terminal No.	Color of Wire	Signal Name [Specification]
7	SB	–
8	B	–

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



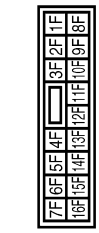
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
12	B	–
19	W	–

Connector No.	E6
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
39	P	–
40	L	–
41	B	–

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
9F	R	–

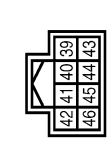
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
32	W	–
47	L	–
48	P	–
96	W	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
4A	P	–
5A	V	–
7A	R	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
5B	O	–
9B	R	–

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7C	B	–

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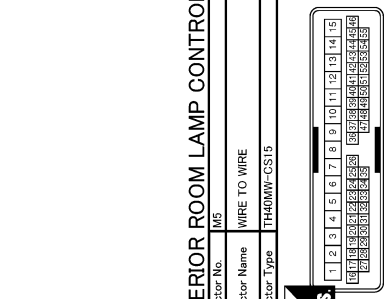
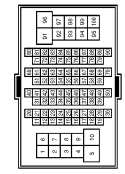
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



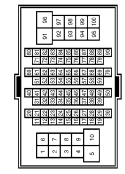
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
20	O	–
21	LG	–
22	V	–
23	Y	–
24	P	–
26	SB	–
27	V	–
28	LG	–
49	R	–
50	O	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
32	W	–
47	L	–
48	P	–
96	W	–

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



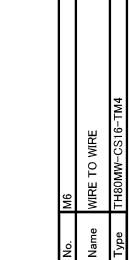
Terminal No.	Color of Wire	Signal Name [Specification]
7	V	–
8	O	–
71	W	–
72	B	–
73	W	–
74	LG	–
76	LG	–
77	SB	–
78	GR	–
79	R	–
80	L	–

81	P	–
82	L	–
83	P	–

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH

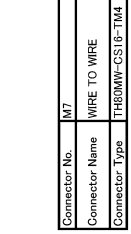
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BAT
7	B	GND
11	BR	KEY SWITCH SIGNAL

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



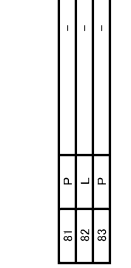
Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	–

Connector No.	M30
Connector Name	FOOT LAMP (DRIVER SIDE)
Connector Type	C02FW



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

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



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

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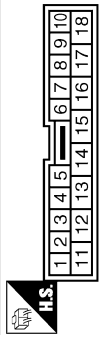
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB

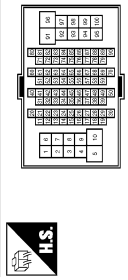
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	GR	SIGNAL OUTPUT
4	BR	BATTERY

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



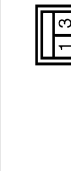
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	G	–
4	R	–
5	Y	–
6	R	–
7	BR	–
8	B	–
11	V	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
60	LG	–
61	R	–
62	SB	–
63	V	–
64	Y	–
65	BR	–
87	P	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY(BAT SAVE)
7	Y	STEP LAMP OUTPUT
11	R	BAT (FUSE)
13	B	GND
19	SB	ROOM LAMP TIMER

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

Terminal No.	Color of Wire	Signal Name [Specification]
38	B	BACK DOOR ANT–
39	W	BACK DOOR ANT+
61	W	BACK DOOR OPENER REQUEST SW
66	LG	BACK DOOR SW
68	BR	REAR RH DOOR SW
69	R	REAR LH DOOR SW

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color of Wire	Signal Name [Specification]
74	SB	PASSENGER DOOR ANT–
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT–
77	LG	DRIVER DOOR ANT+
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
89	SB	PUSH SW
90	P	CAN–L
91	L	CAN–H
95	O	ACC RELAY CONT
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW

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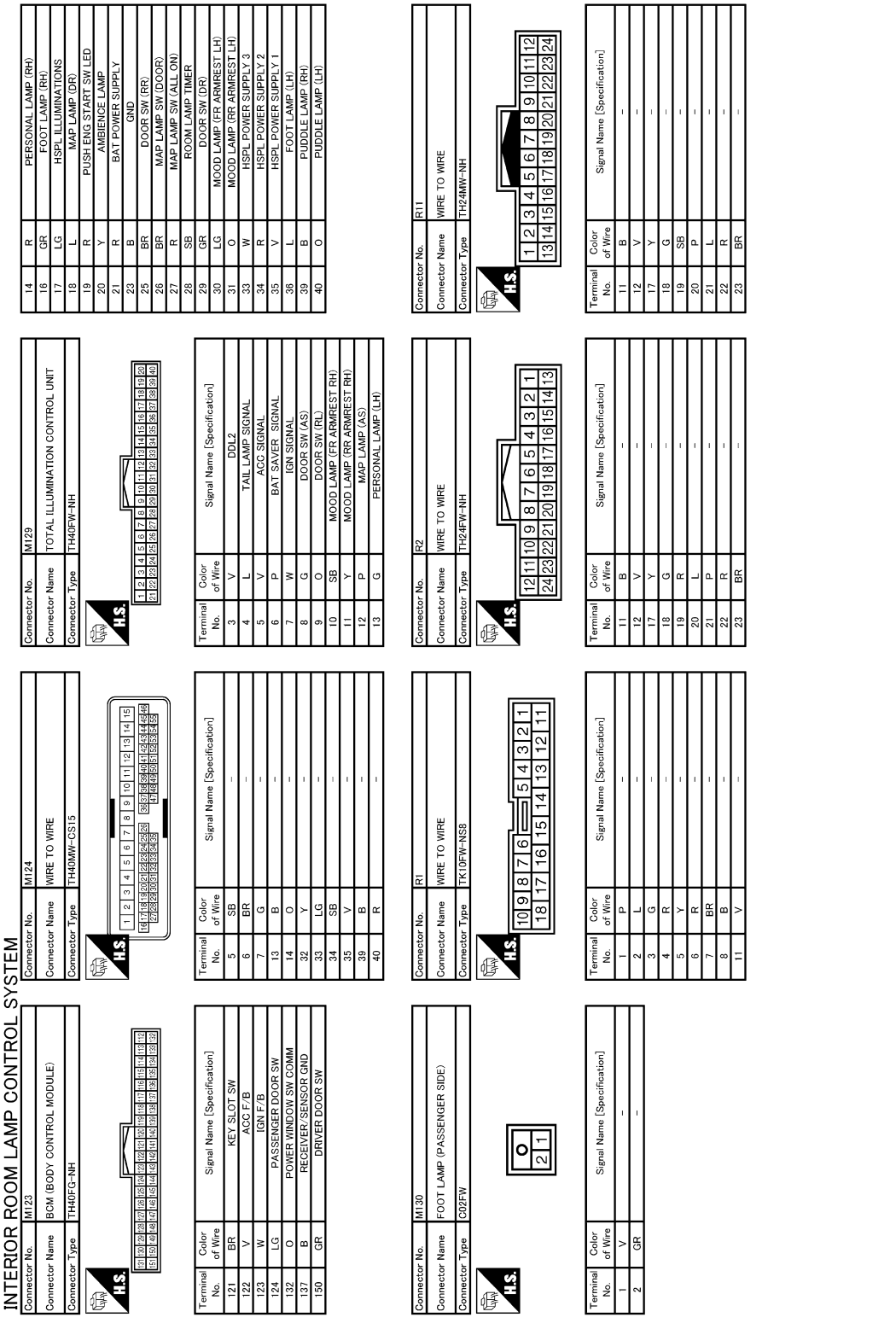
INTERIOR ROOM LAMP CONTROL SYSTEM



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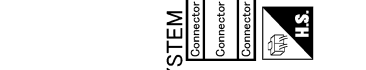
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	R12
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW

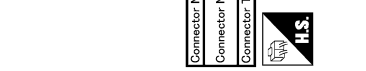
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	V	–

Connector No.	R13
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW



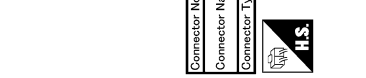
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	V	–

Connector No.	R14
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
3	SB	–
4	V	–

Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TK10FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	DOOR ON SIG
2	R	ALL ON SIG
3	B	GND
5	V	LED+
6	Y	LED–
7	P	DOOR SIG L
8	B	GND
9	L	DOOR SIG R
10	V	BAT

JCLWM1827GB

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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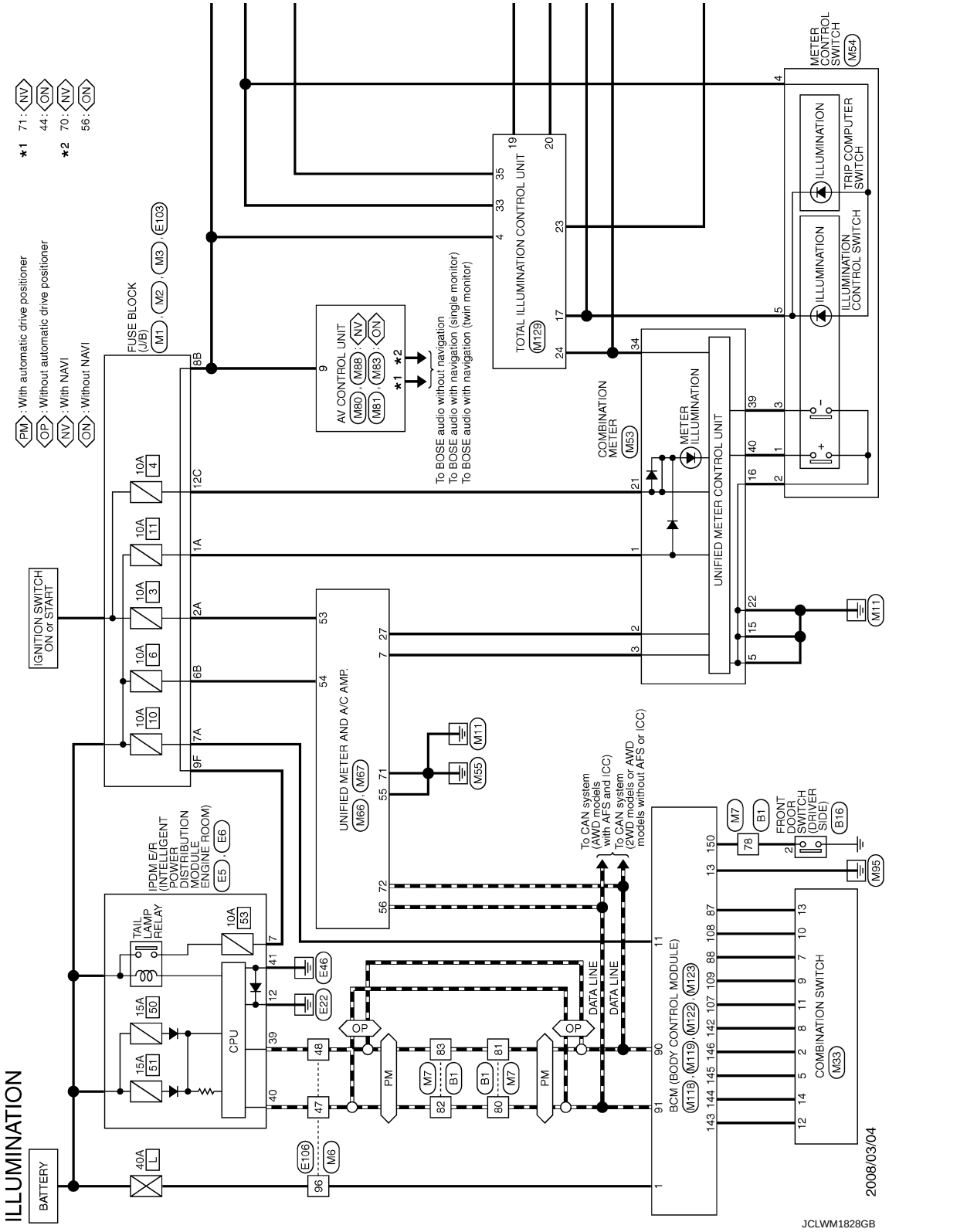
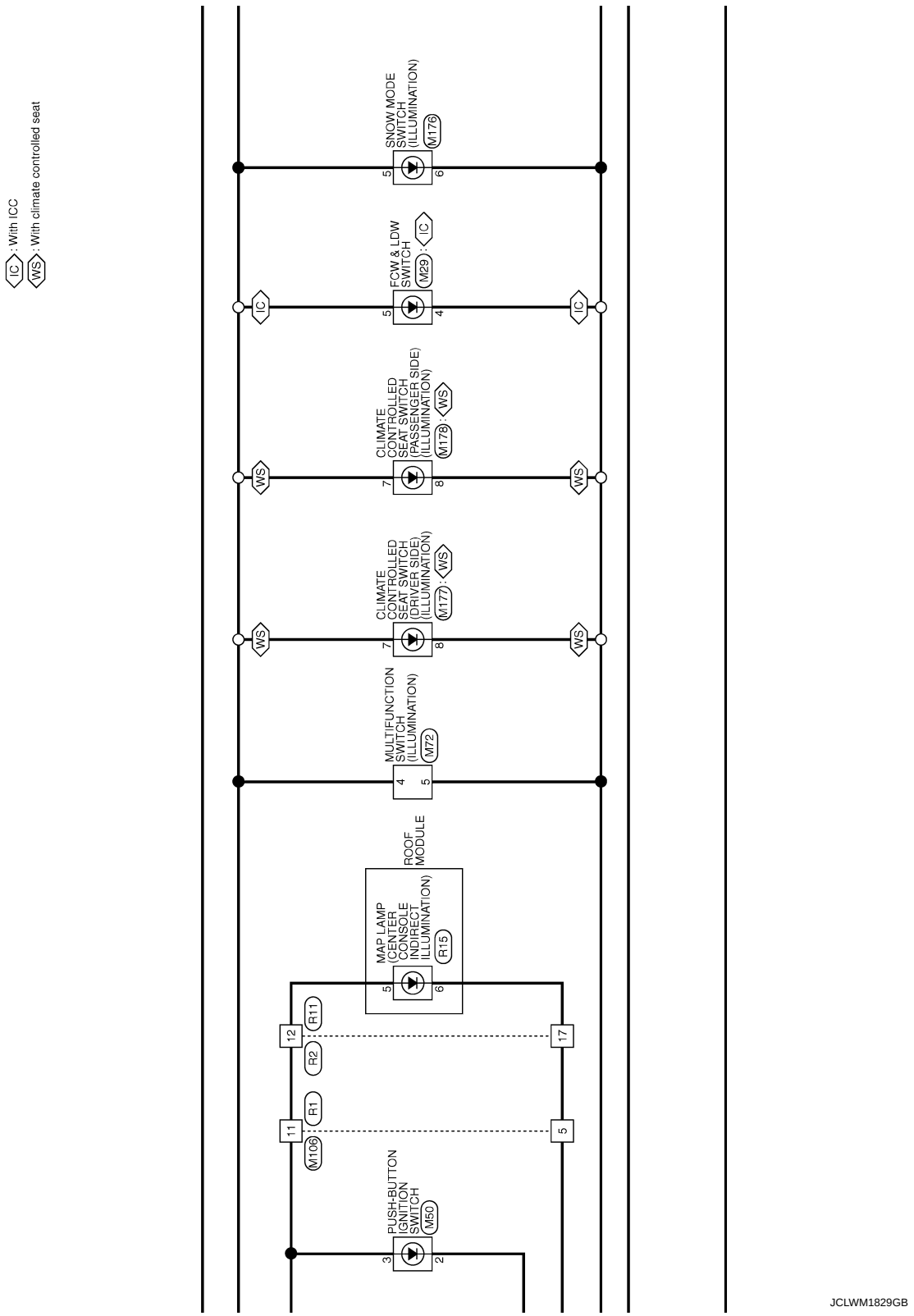
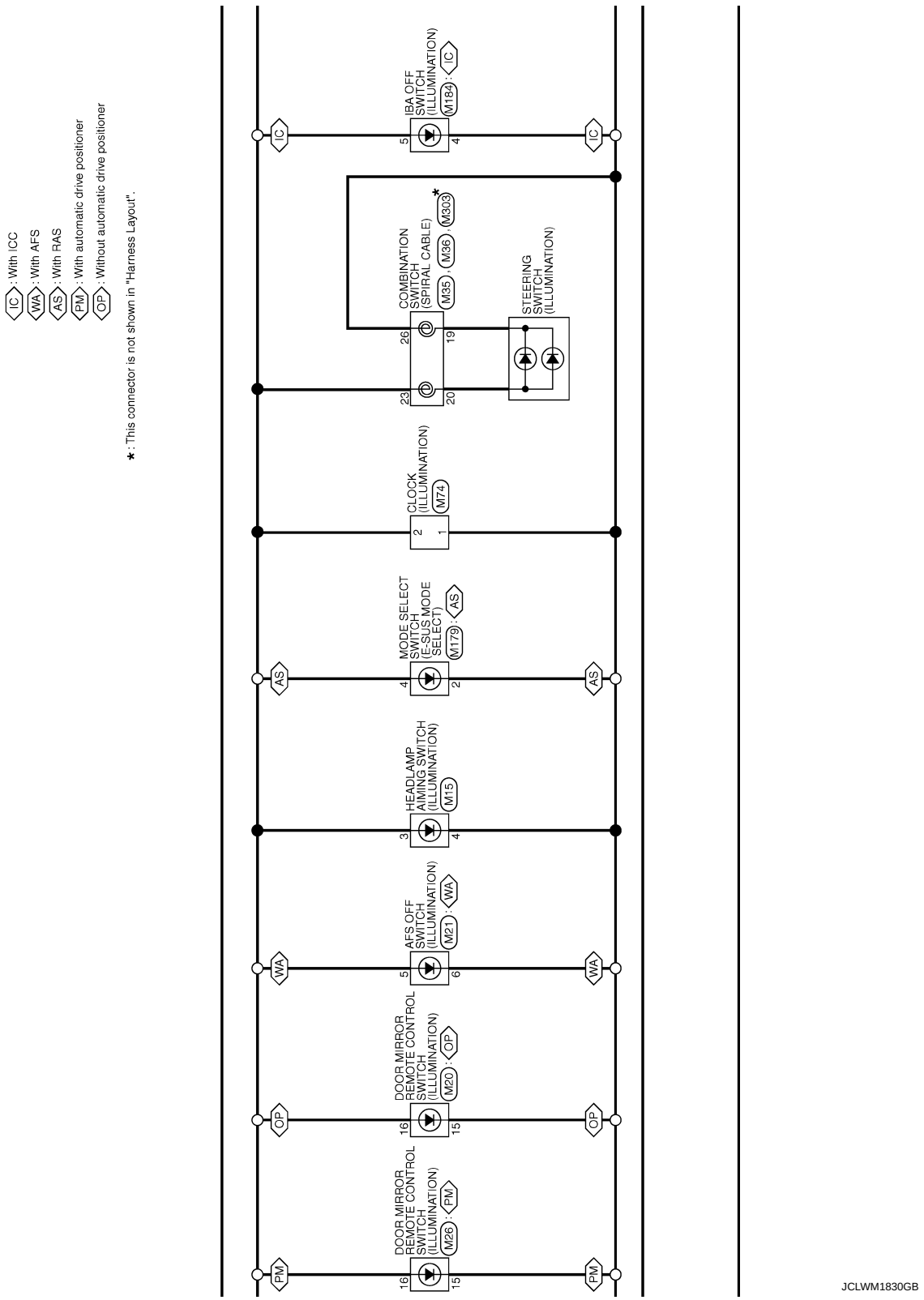
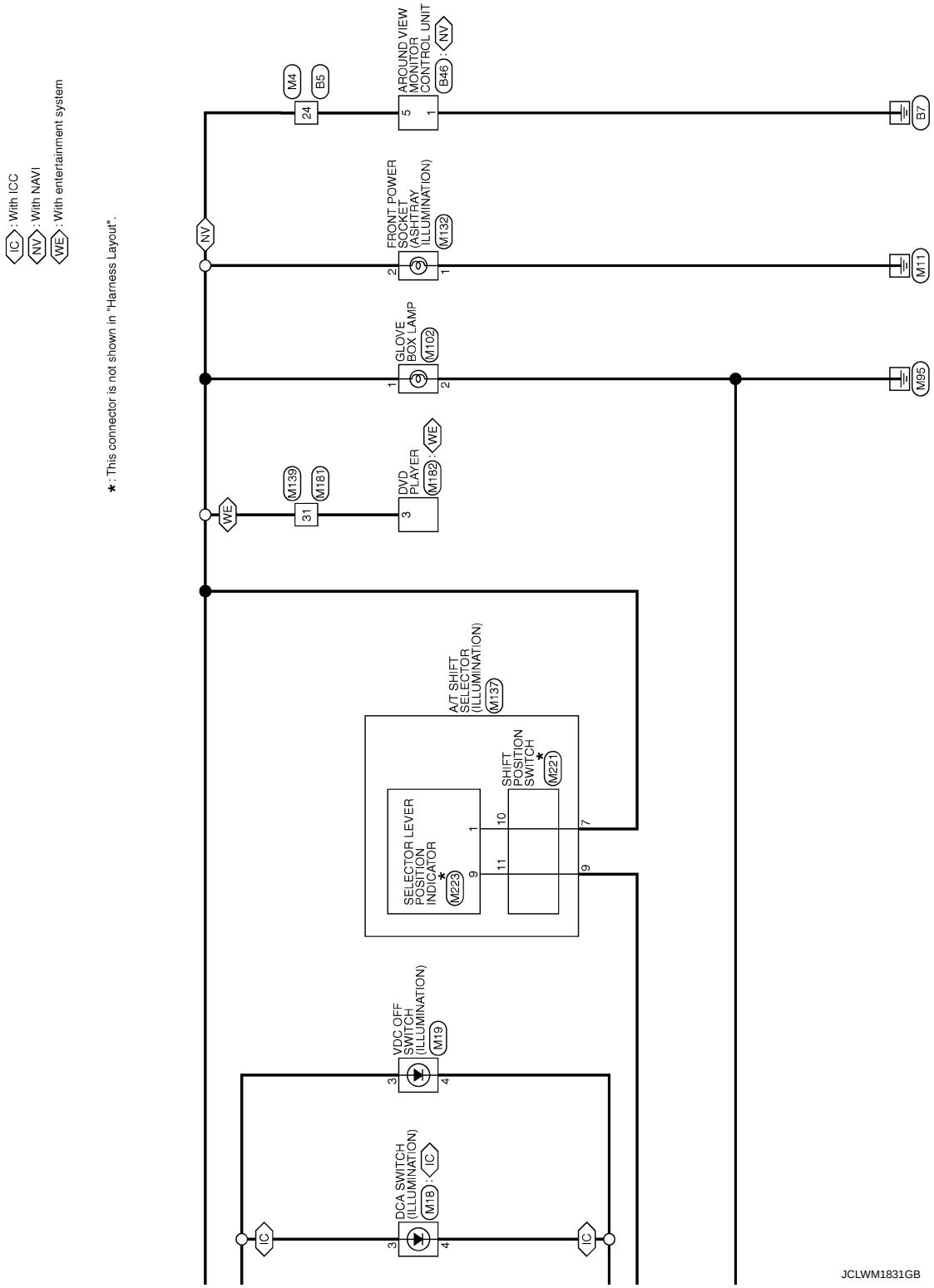



IC : With ICC
WS : With climate controlled seat
SNOW MODE SWITCH (ILLUMINATION)
M178
FCW & LDW SWITCH
M29
IC
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE) (ILLUMINATION)
M178
WS
CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE) (ILLUMINATION)
M177
MULTIFUNCTION SWITCH (ILLUMINATION)
M72
ROOF MODULE
MAP LAMP (CENTER CONSOLE INDIRECT ILLUMINATION)
R15
R11
R2
R1
M106
PUSH-BUTTON IGNITION SWITCH
M50
JCLWM1829GB


IC : With ICC
WA : With AFS
AS : With RAS
PM : With automatic drive positioner
OP : Without automatic drive positioner
★: This connector is not shown in "Harness Layout".
IBA OFF SWITCH (ILLUMINATION)
M184
COMBINATION SWITCH (SPIRAL CABLE)
M303
M35
M36
STEERING SWITCH (ILLUMINATION)
CLOCK (ILLUMINATION)
M74
MODE SELECT SWITCH (E-SUS MODE SELECT)
M179
HEADLAMP AIMING SWITCH (ILLUMINATION)
M15
AFS OFF SWITCH (ILLUMINATION)
M21
DOOR MIRROR REMOTE CONTROL SWITCH (ILLUMINATION)
M20
M26
JCLWM1830GB


IC : With ICC
NV : With NAVI
WE : With entertainment system
*: This connector is not shown in "Harness Layout".
AROUND VIEW MONITOR CONTROL UNIT
NV
B46
M4
B5
24
5
1
B7
FRONT POWER SOCKET (ASHTRAY ILLUMINATION)
M132
2
1
M11
GLOVE BOX LAMP
M102
1
2
M95
DVD PLAYER
WE
M182
M139
M181
31
3
A/T SHIFT SELECTOR (ILLUMINATION)
M137
SHIFT POSITION SWITCH *
M221
SELECTOR LEVER POSITION INDICATOR *
M223
1
10
11
9
7
9
VDC OFF SWITCH (ILLUMINATION)
M19
3
4
DCA SWITCH (ILLUMINATION)
IC
M18
3
4
JCLWM1831GB

ILLUMINATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
78	GR	–
80	L	–
81	P	–
82	L	–
83	P	–

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
12	B	–

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
24	R	–

Connector No.	E6
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
39	P	–
40	L	–
41	B	–

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
9F	R	–

Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
5	R	ILLUMINATION

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
47	L	–
48	P	–
96	W	–

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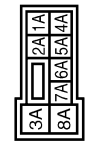
ILLUMINATION

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

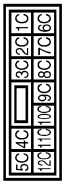


Terminal No.	Color of Wire	Signal Name [Specification]
1A	O	–
2A	G	–
7A	R	–

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

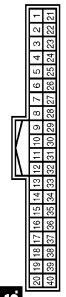
Terminal No.	Color of Wire	Signal Name [Specification]
6B	Y	–
8B	R	–

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	–

Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
47	L	–
48	P	–
96	W	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
78	GR	–
80	L	–
81	P	–
82	L	–
83	P	–

Connector No.	M15
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	R	–
4	R	–

Connector No.	M18
Connector Name	DCA SWITCH
Connector Type	TK06FGY

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	W	–

JCLWM1833GB

ILLUMINATION

Connector No.	M19
Connector Name	VDC OFF SWITCH
Connector Type	TK06FGY

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	LG	–

Connector No.	M20
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16FW

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	–
16	W	–

Connector No.	M21
Connector Name	AFS OFF SWITCH
Connector Type	TK06FW-1V

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	R	–

Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16FBR

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	–
16	W	–

Connector No.	M29
Connector Name	FCW & LDW SWITCH
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–
5	R	–

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	V	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK06FY-EX-1V

Terminal No.	Color of Wire	Signal Name [Specification]
23	R	–

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

Terminal No.	Color of Wire	Signal Name [Specification]
26	B	–

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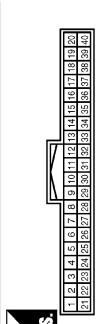
ILLUMINATION

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

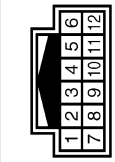
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	O	–

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



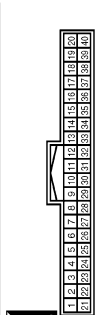
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	BAT
2	LG	COMM (METER->AMP.)
3	GR	COMM (AMP->METER)
5	B	GND
15	B	GND
16	B	METER CONTROL SW GND
21	R	IGN
22	B	GND
34	O	ILL CON OUT
39	P	ILLUMINATION CONTROL SW (-)
40	O	ILLUMINATION CONTROL SW (+)

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	B	–
3	P	–
4	R	–
5	B	–

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	COMM (AMP->METER)
27	LG	COMM (METER->AMP.)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
53	G	IGN
54	Y	BAT
55	B	GND
56	L	CAN-H
71	B	GND
72	P	CAN-L

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

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	ILL
5	Y	ILL CONT

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	ILLUMINATION (-)
2	R	ILLUMINATION (+)

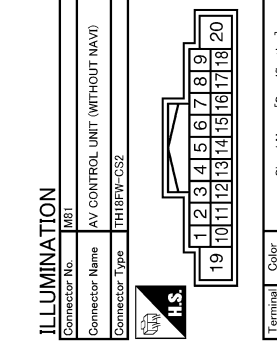
Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2

Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

JCLWM1835GB

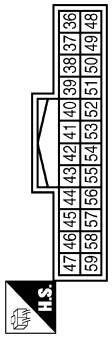
ILLUMINATION

Connector No.	M61
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



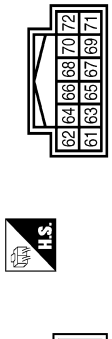
Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



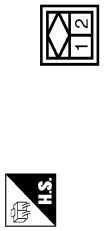
Terminal No.	Color of Wire	Signal Name [Specification]
44	BR	COMM (DISP->CONT)
56	Y	COMM (CONT->DISP)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M102
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
11	V	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color of Wire	Signal Name [Specification]
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2

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ILLUMINATION

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

Terminal No.	Color of Wire	Signal Name [Specification]
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW

Connector No.	M129
Connector Name	TOTAL ILLUMINATION CONTROL UNIT
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
4	L	TAIL LAMP SIGNAL
17	LG	HSPL ILLUMINATIONS
19	R	PUSH ENG START SW LED
20	Y	AMBIENCE LAMP
23	B	GND
24	O	ILL CONT INPUT
33	W	HSPL POWER SUPPLY 3
35	V	HSPL POWER SUPPLY 1

Connector No.	M132
Connector Name	FRONT POWER SOCKET
Connector Type	NS03FW-CS

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

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	–
9	B	–

Connector No.	M139
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	–

Connector No.	M176
Connector Name	SNOW MODE SWITCH
Connector Type	TK08FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	GR	–

Connector No.	M177
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
8	R	–

Connector No.	M178
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
8	R	–

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ILLUMINATION

Connector No.	M179
Connector Name	MODE SELECT SWITCH (E-SUS MODE SELECT)
Connector Type	TK08FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
4	R	–

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	–

Connector No.	M182
Connector Name	DVD PLAYER
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	ILLUMINATION

Connector No.	M184
Connector Name	IBA OFF SWITCH
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	O	–

Connector No.	M221
Connector Name	SHIFT POSITION SWITCH
Connector Type	TH12FW

Terminal No.	Color of Wire	Signal Name [Specification]
10	R	ILL
11	B	GND

Connector No.	M223
Connector Name	SELECTOR LEVER POSITION INDICATOR
Connector Type	XARP-09V

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	ILL
9	B	GND

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
19	P	–
20	Y	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
11	V	–

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ILLUMINATION

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

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
12	V	–
17	Y	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
12	V	–
17	Y	–

Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TK10FW

H.S.

1	2	3	4
5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name [Specification]
5	V	LED+
6	Y	LED-

JCLWM1839GB

ECU DIAGNOSIS INFORMATION

TOTAL ILLUMINATION CONTROL UNIT

Reference Value

INFOID:0000000003824840

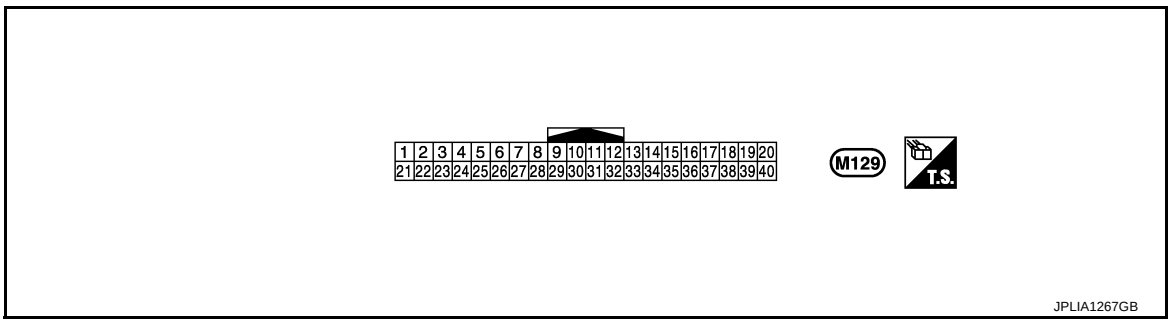
VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
BAT SAVER SIGNAL	Interior room lamp battery saver is activated. (BCM cuts the interior room lamp power supply.)	Off
	Interior room lamp battery saver is not activated. (BCM outputs the interior room lamp power supply.)	On
IGN SIGNAL	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
ACC SIGNAL	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
ROOM LAMP REQ	Other than the conditions as per the following	Off
	Hospitality lighting function table “Scene 1” • Interior room lamp timer is activated. (Door is unlocked. etc.) • Welcome light function is activated.	On
TAIL LAMP SIGNAL	Tail lamps are OFF.	Off
	Tail lamps are ON condition.	On
DOOR SW-DR	Driver door close	Off
	Driver door open	On
DOOR SW-AS	Passenger door close	Off
	Passenger door open	On
DOOR SW-RR	Rear RH door close	Off
	Rear RH door open	On
DOOR SW-RL	Rear LH door close	Off
	Rear LH door open	On
MAP LAMP SW	Map lamp main switch OFF	Off
	Map lamp main switch ALL ON	ALL ON
	Map lamp main switch DOOR	DOOR
ENGINE SW ILLUMI	Engine switch illumination OFF	Off
	While engine switch illumination heart beat function	PULSE
	Ignition switch ON or tail lamps ON	STEADY
FOOT LAMP	Foot lamp OFF	0%
	Any door open (Ignition switch OFF)	80%
	Engine running (Tail lamps OFF)	10%
MAP LAMP-DR	Map lamp main switch OFF	0%
	Any door open and driver door close (Map lamp main switch DOOR)	30%
	Driver door open (Map lamp main switch DOOR)	90%
	Map lamp main switch ALL ON	100%

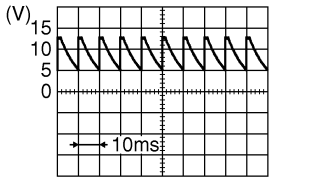
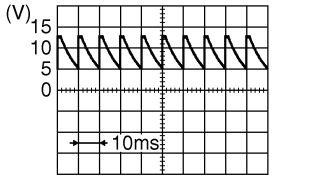
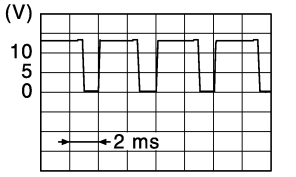
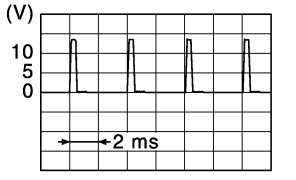
Monitor Item	Condition	Value/Status
MAP LAMP-AS	Map lamp main switch OFF	0%
	Any door open and passenger door close (Map lamp main switch DOOR)	30%
	Passenger door open (Map lamp main switch DOOR)	90%
	Map lamp main switch ALL ON	100%
PERSONAL LMP-RR	Map lamp main switch OFF	0%
	Any door open and rear RH door close (Map lamp main switch DOOR)	30%
	Rear RH door open (Map lamp main switch DOOR)	90%
	Map lamp main switch ALL ON	100%
PERSONAL LMP-RL	Map lamp main switch OFF	0%
	Any door open and rear LH door close (Map lamp main switch DOOR)	30%
	Rear LH door open (Map lamp main switch DOOR)	90%
	Map lamp main switch ALL ON	100%
PUDDLE LAMP	Puddle lamp OFF	0%
	Puddle lamp ON	100%
MOOD LAMP	Mood lamp OFF	0%
	Any door open	100%
AMBIENCE LAMP	Center console indirect illumination (ambience lamp) OFF	0%
	Ignition switch ON (Tail lamp OFF)	10%
	Map lamp main switch ALL ON	100%
HSPL ILLUMI	Each illumination (linked with hospitality lighting) OFF	0%
	Tail lamps ON	0 – 100% (Linked to illumination control switch)
ILLUM CONT SIGNAL	Tail lamps ON	0 – 100% (Linked to illumination control switch)

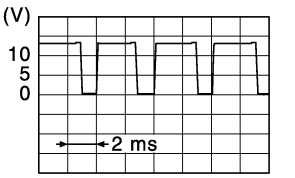
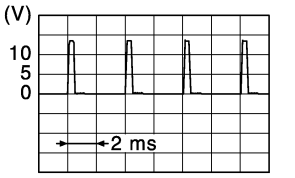
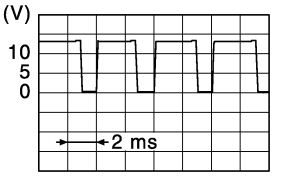
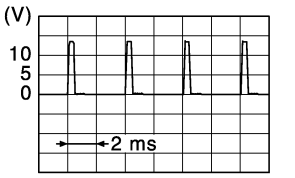
TERMINAL LAYOUT

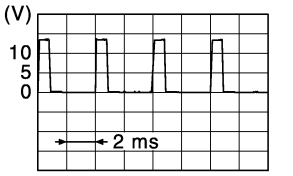
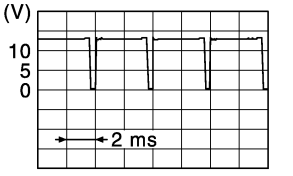
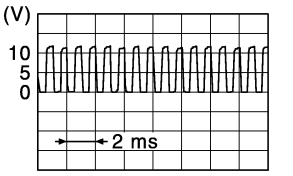
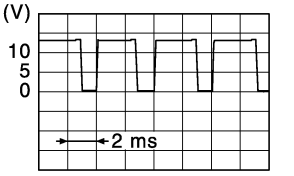
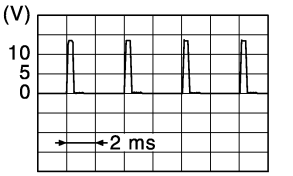


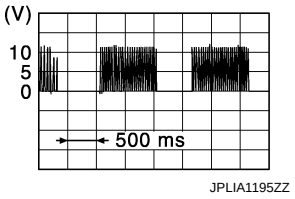
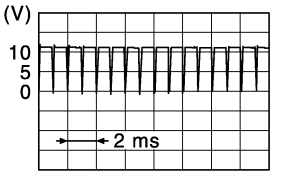
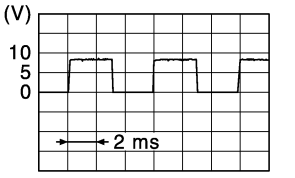
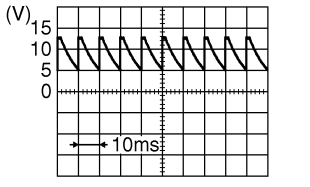
PHYSICAL VALUES

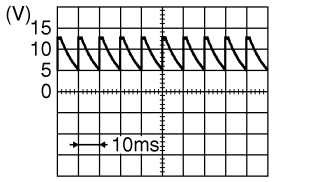
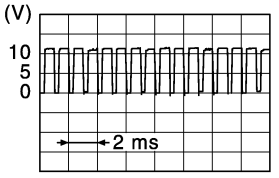
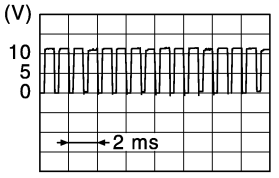
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
3 (V)	Ground	DDL2 communication line	—	—		—
4 (L)	Ground	Tail lamp signal	Input	Tail lamps	ON	Battery voltage
					OFF	0 V
5 (V)	Ground	Ignition switch ACC	Input	Ignition switch	ACC or ON	Battery voltage
					OFF	0 V

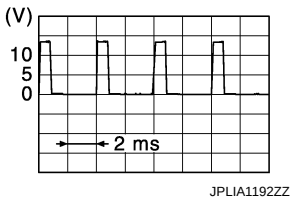
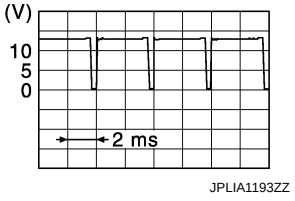
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
6 (P)	Ground	Battery saver	Input	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
7 (W)	Ground	Ignition switch ON	Input	Ignition switch	ON	Battery voltage
					OFF or ACC	0 V
8 (G)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
9 (O)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
10 (SB)	Ground	Mood lamp (Front door armrest RH)	Output	Mood lamp OFF		12 V
				Any door open		0 V
11 (Y)	Ground	Mood lamp (Rear door armrest RH)	Output	Mood lamp OFF		12 V
				Any door open		0 V
12 (P)	Ground	Map lamp (Passenger side)	Output	Map lamp main switch OFF		12 V
				Any door open and passenger door close (Map lamp main switch DOOR)		 JPLIA1190ZZ 8.4 V
				Passenger door open (Map lamp main switch DOOR)		 JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON		0 V

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	–	Signal name	Input/ Output		
13 (G)	Ground	Personal lamp (LH)	Output	Map lamp main switch OFF	12 V
				Any door open and rear LH door close (Map lamp main switch DOOR)	 JPLIA1190ZZ 8.4 V
				Rear LH door open (Map lamp main switch DOOR)	 JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON	0 V
14 (R)	Ground	Personal lamp (RH)	Output	Map lamp main switch OFF	12 V
				Any door open and rear RH door close (Map lamp main switch DOOR)	 JPLIA1190ZZ 8.4 V
				Rear RH door open (Map lamp main switch DOOR)	 JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON	0 V

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	–	Signal name	Input/ Output		
16 (GR)	Ground	Foot lamp (RH)	Output	Foot lamp OFF	12 V
				Any door open (Ignition switch OFF)	 JPLIA1192ZZ 2.4 V
				Ignition switch ON (Tail lamps OFF)	 JPLIA1193ZZ 10.8 V
17 (LG)	Ground	Each illumination (Linked with hospitality lighting)	Output	Ignition switch OFF	12 V
				Tail lamp ON	**NOTE:** Illumination control brightness level is midway  JPLIA1194ZZ
18 (L)	Ground	Map lamp (Driver side)	Output	Map lamp main switch OFF	12 V
				Any door open and driver door close (Map lamp main switch DOOR)	 JPLIA1190ZZ 8.4 V
				Driver door open (Map lamp main switch DOOR)	 JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON	0 V

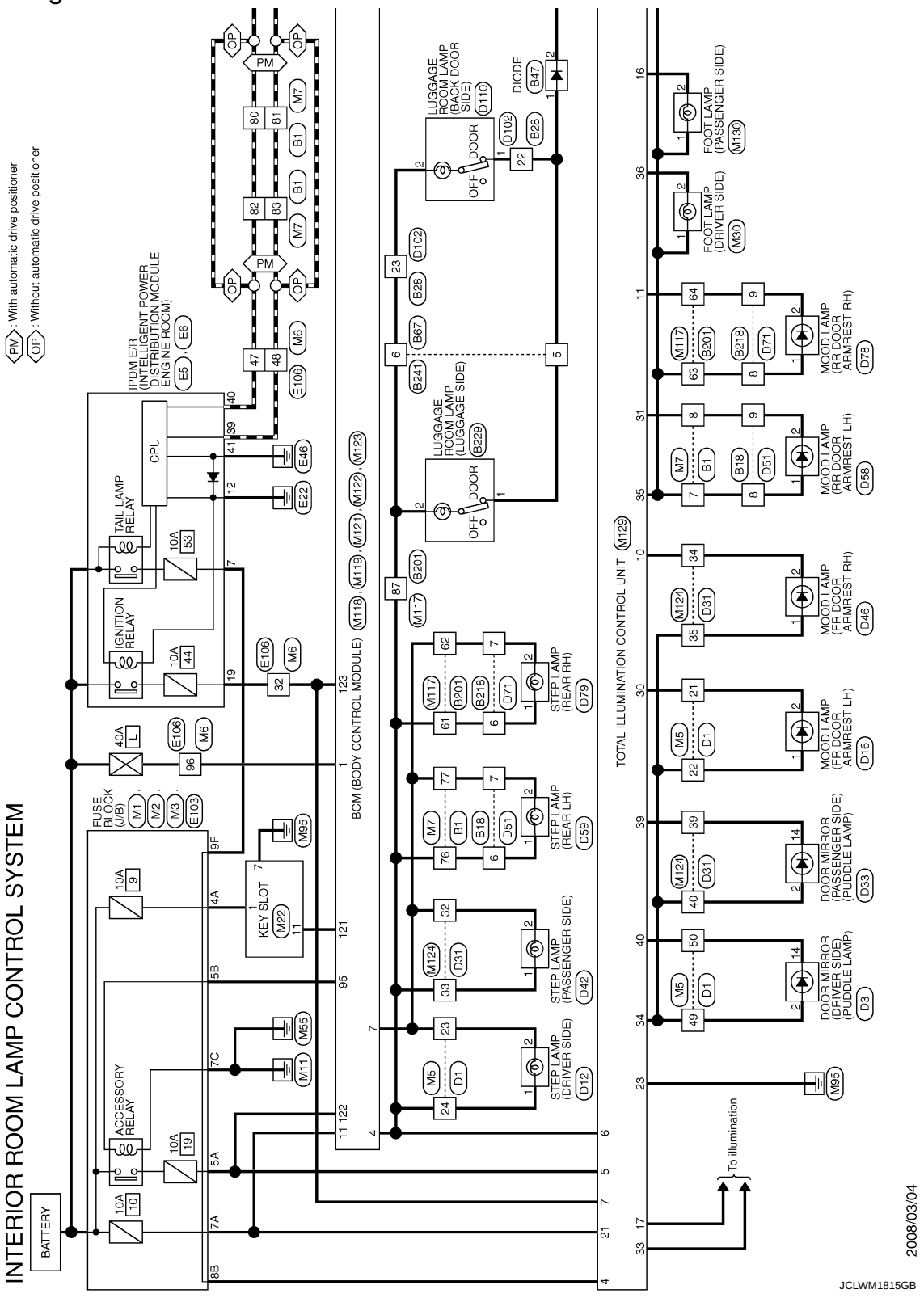
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
19 (R)	Ground	Engine switch illumination	Output	Engine switch illumination OFF		12 V
				While engine switch illumination heart beat function		 JPLIA1195ZZ
				Engine switch illumination ON (Tail lamp OFF)		0 V
20 (Y)	Ground	Ambience lamp (Center console indirect illumination)	Output	Center console indirect illumination (ambience lamp) OFF		12 V
				Ignition switch ON (Tail lamp OFF)		 JPLIA1196ZZ 10.8 V
				Map lamp main switch ALL ON		0 V
21 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
23 (B)	Ground	Ground	—	Ignition switch ON		0 V
24 (O)	Ground	Illumination control signal	Input	Tail lamp OFF		5 V
				Tail lamp ON	Illumination control brightness level is minimum	8 V
					Illumination control brightness level is midway	 JPLIA1199ZZ
					Illumination control brightness level is maximum	0 V
25 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
26 (BR)	Ground	Map lamp switch (DOOR)	Input	Map lamp main switch	OFF or ALL ON	5 V
					DOOR	0 V

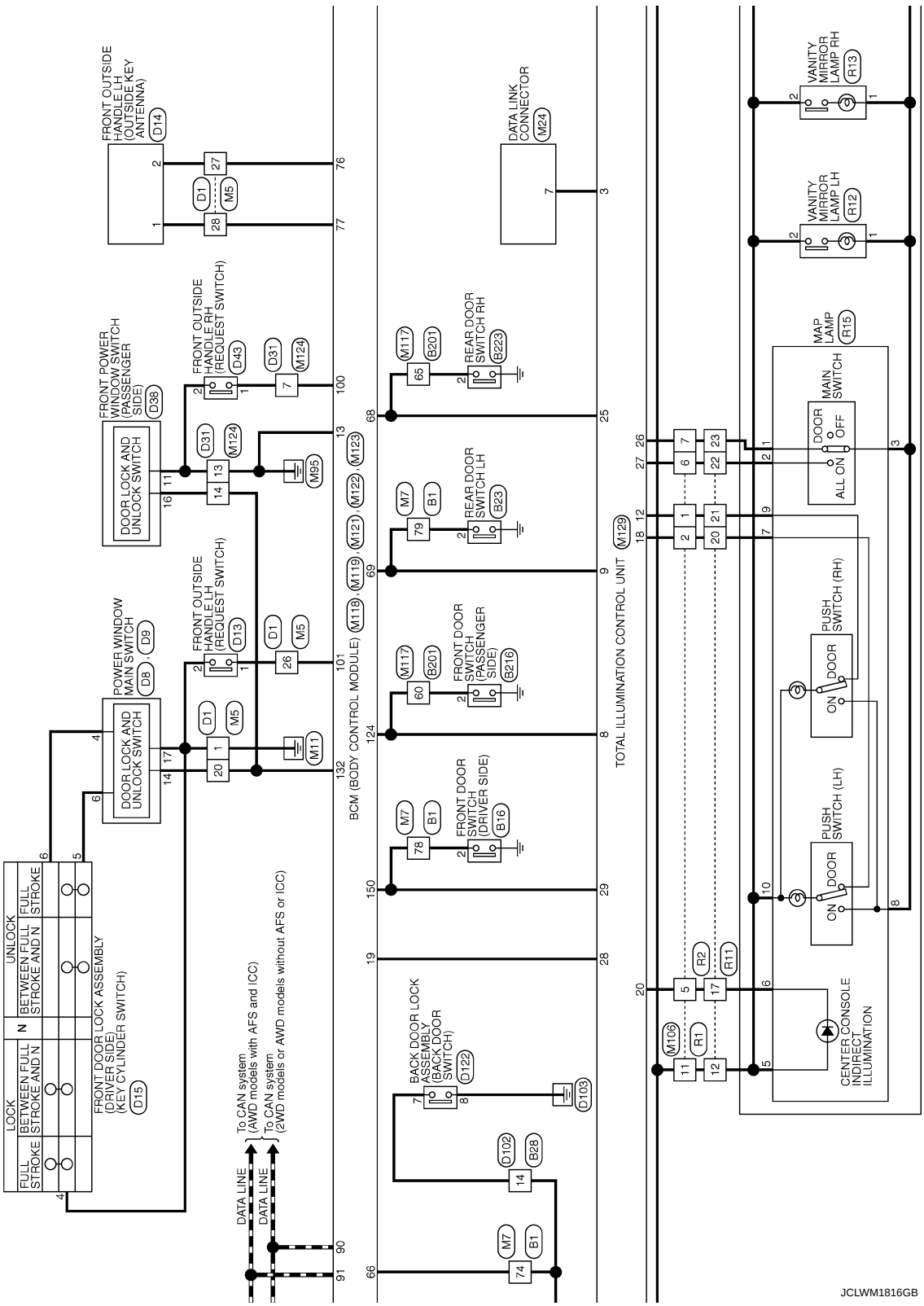
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
27 (R)	Ground	Map lamp switch (ALL ON)	Input	Map lamp main switch	OFF or DOOR	5 V
					ALL ON	0 V
28 (SB)	Ground	Room lamp timer	Input	Other than the conditions as per the following		5 V
				Hospitality lighting function table “scene 1” • Interior room lamp timer is activated. (Door is unlocked. etc.) • Welcome light function is activated.		0 V
29 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
30 (LG)	Ground	Mood lamp (Front door armrest LH)	Output	Mood lamp OFF		12 V
				Any door open		0 V
				Engine running (Tail lamps OFF)		 JPLIA1189ZZ 8.4 V
31 (O)	Ground	Mood lamp (Rear door armrest LH)	Output	Mood lamp OFF		12 V
				Any door open		0 V
				Engine running (Tail lamps OFF)		 JPLIA1189ZZ 8.4 V
33 (W)	Ground	Hospitality lighting power supply 3	Output	Interior room lamp battery saver is activated.		0 V
				Interior room lamp battery saver is not activated.		12 V
34 (R)	Ground	Hospitality lighting power supply 2	Output	Interior room lamp battery saver is activated.		0 V
				Interior room lamp battery saver is not activated.		12 V
35 (V)	Ground	Hospitality lighting power supply 1	Output	Interior room lamp battery saver is activated.		0 V
				Interior room lamp battery saver is not activated.		12 V

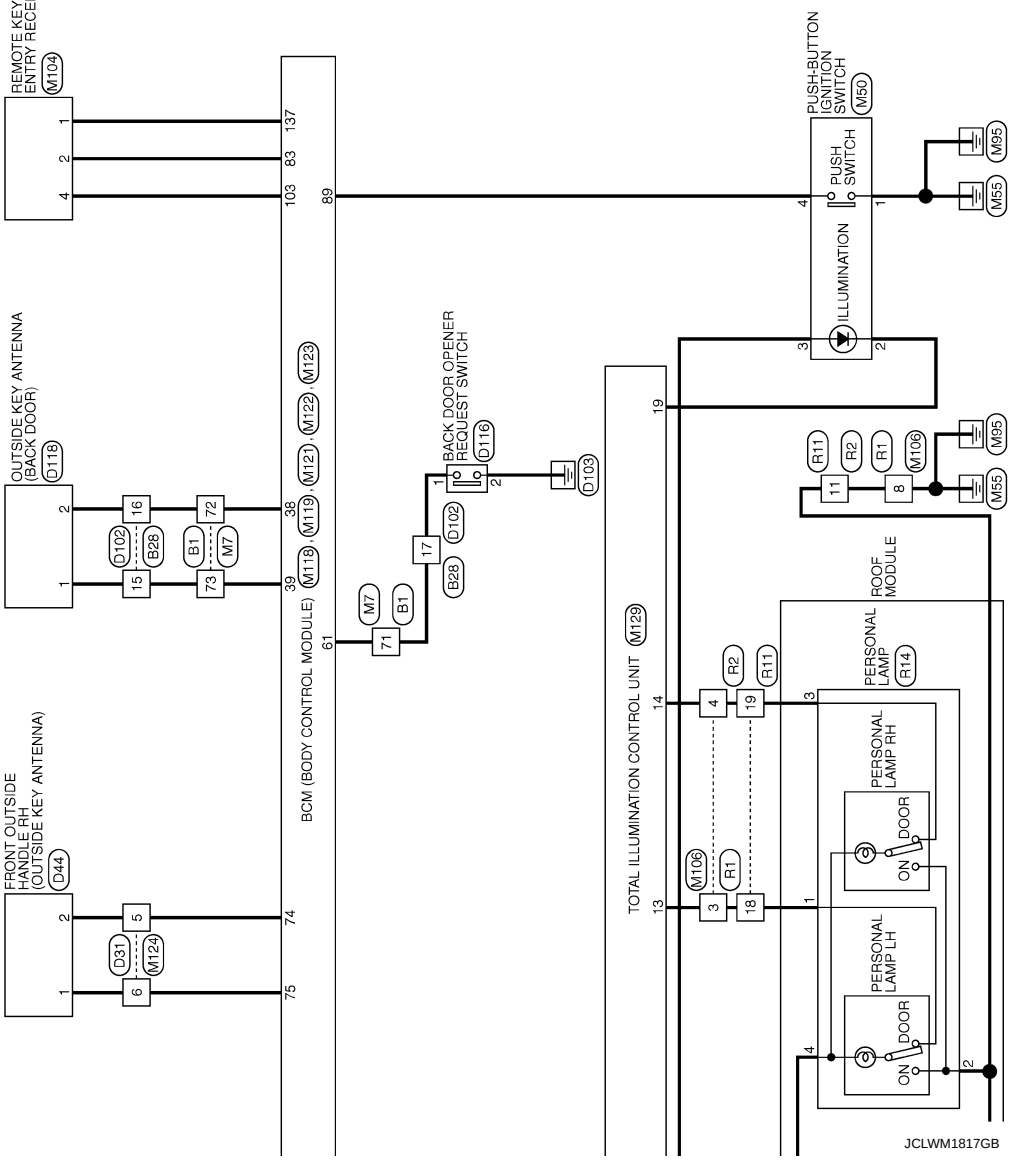
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
36 (L)	Ground	Foot lamp (LH)	Output	Foot lamp OFF		12 V
				Any door open (ignition switch OFF)		 JPLIA1192ZZ 2.4 V
				Ignition switch ON (Tail lamps OFF)		 JPLIA1193ZZ 10.8 V
39 (B)	Ground	Puddle lamp (RH)	Output	Puddle lamp (RH)	OFF	12 V
					ON	0 V
40 (O)	Ground	Puddle lamp (LH)	Output	Puddle lamp (LH)	OFF	12 V
					ON	0 V

Wiring Diagram - INTERIOR ROOM LAMP -

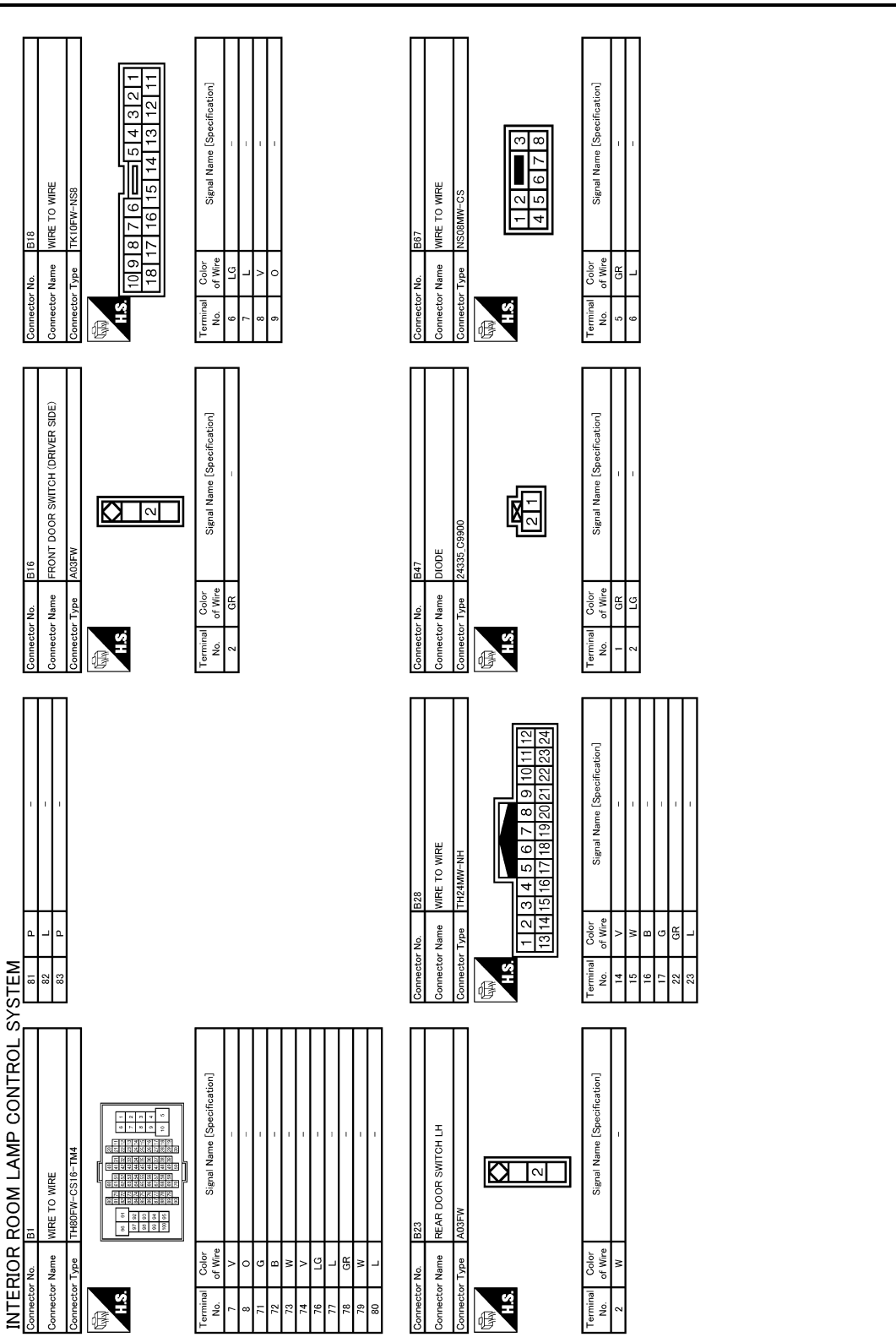
INFOID:0000000004167337




FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) D14
DATA LINK CONNECTOR M24
FRONT POWER WINDOW SWITCH (PASSENGER SIDE) D38
FRONT OUTSIDE HANDLE RH (REQUEST SWITCH) D43
REAR DOOR SWITCH RH B223
VANITY MIRROR LAMP RH R13
VANITY MIRROR LAMP LH R12
MAP LAMP R15
DOOR LOCK AND UNLOCK SWITCH
POWER WINDOW MAIN SWITCH D8, D9
FRONT OUTSIDE HANDLE LH (REQUEST SWITCH) D13
REAR DOOR SWITCH LH B23
FRONT DOOR SWITCH (PASSENGER SIDE) B216
FRONT DOOR SWITCH (DRIVER SIDE) B16
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH) D122
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) (KEY CYLINDER SWITCH) D15
BCM (BODY CONTROL MODULE) M118, M119, M121, M122, M123
TOTAL ILLUMINATION CONTROL UNIT M129
DOOR MAIN SWITCH
OFF
ALL ON
PUSH SWITCH (RH)
PUSH SWITCH (LH)
DOOR
ON
CENTER CONSOLE INDIRECT ILLUMINATION
LOCK
UNLOCK
FULL STROKE
BETWEEN FULL STROKE AND N
N
BETWEEN FULL STROKE AND N
FULL STROKE
DATA LINE
To CAN system (AWD models with AFS and ICC)
To CAN system (2WD models or AWD models without AFS or ICC)
JCLWM1816GB


REMOTE KEYLESS ENTRY RECEIVER
M104
OUTSIDE KEY ANTENNA (BACK DOOR)
D118
FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
D44
BCM (BODY CONTROL MODULE)
M118
M119
M121
M122
M123
BACK DOOR OPENER REQUEST SWITCH
D116
D103
PUSH-BUTTON IGNITION SWITCH
M50
PUSH SWITCH
ILLUMINATION
M95
M55
TOTAL ILLUMINATION CONTROL UNIT
M129
ROOF MODULE
PERSONAL LAMP
R14
PERSONAL LAMP RH
PERSONAL LAMP LH
DOOR
ON
R11
R2
R1
M106
JCLWM1817GB

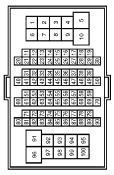
INTERIOR ROOM LAMP CONTROL SYSTEM



JCLWM1818GB

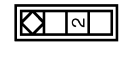
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



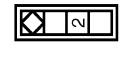
Terminal No.	Color of Wire	Signal Name [Specification]
60	GR	–
61	LG	–
62	SB	–
63	V	–
64	BR	–
65	O	–
87	L	–

Connector No.	B216
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



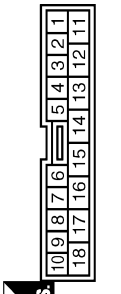
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	–

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
6	LG	–
7	SB	–
8	V	–
9	BR	–

Connector No.	B229
Connector Name	LUGGAGE ROOM LAMP (LUGGAGE SIDE)
Connector Type	TK03FW

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

Connector No.	B241
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	L	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
49	R	–
50	B	–

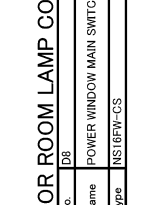
Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
14	B	–

JCLWM1819GB

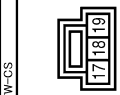
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	–
6	Y	–
14	V	–

Connector No.	D9
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS03FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	–

Connector No.	D12
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	TB02FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	SB	–

Connector No.	D13
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL-B

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

Connector No.	D14
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY

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

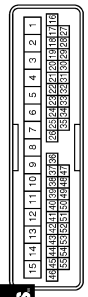
Connector No.	D15
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
4	B	–
5	Y	–
6	V	–

Connector No.	D16
Connector Name	MOOD LAMP(FR DOOR ARMREST LH)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	Y	–

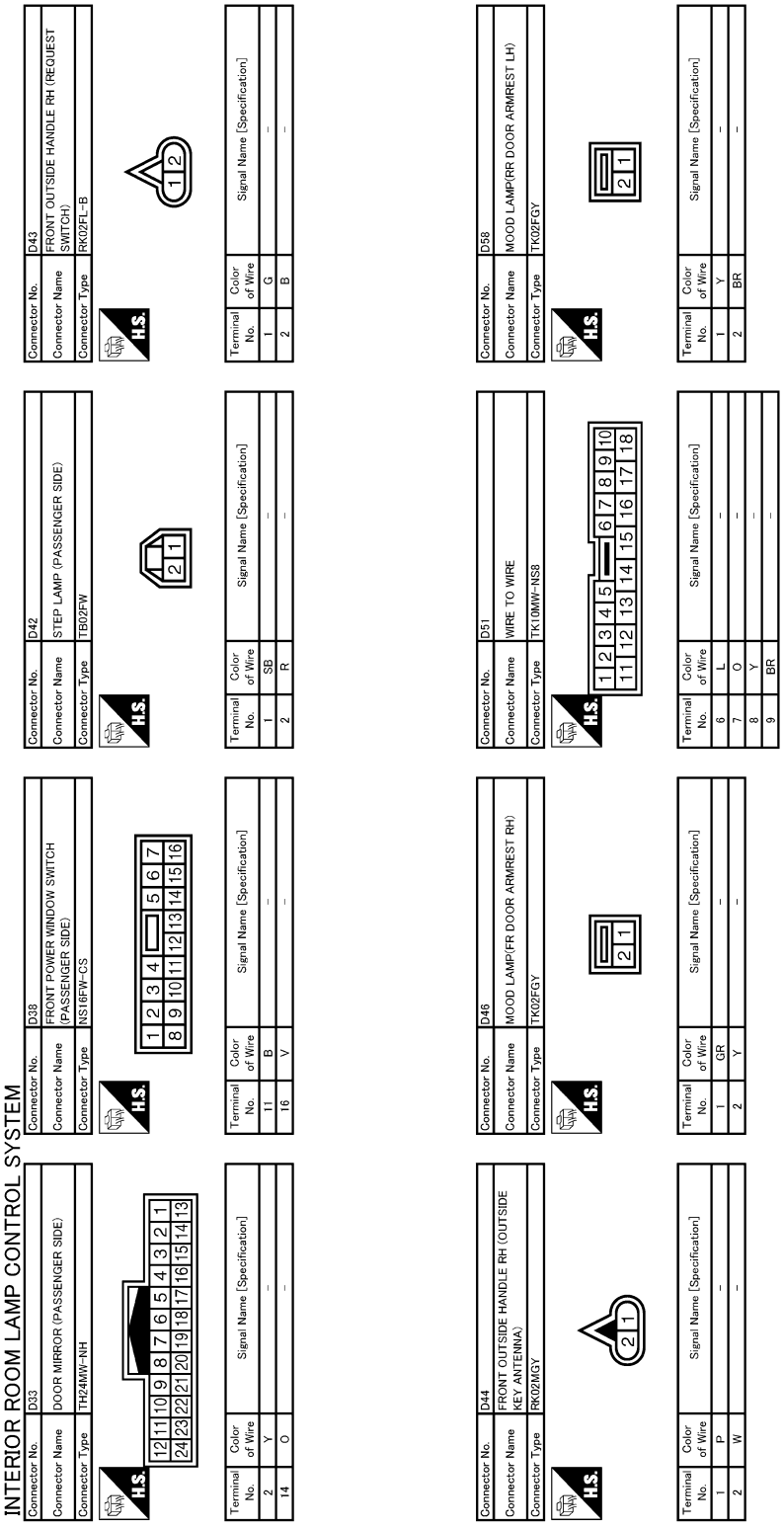
Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
5	W	–
6	P	–
7	G	–
13	B	–
14	V	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
39	O	–
40	Y	–

JCLWM1820GB

INTERIOR ROOM LAMP CONTROL SYSTEM



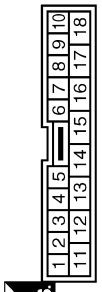
JCLWM1821GB

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D69
Connector Name	STEP LAMP (REAR LH)
Connector Type	TB02FW

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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
7	O	–
8	Y	–
9	BR	–

Connector No.	D78
Connector Name	MOOD LAMP(RR DOOR ARMREST RH)
Connector Type	TK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	BR	–

Connector No.	D79
Connector Name	STEP LAMP (REAR RH)
Connector Type	TB02FW

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

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
14	SB	–
15	BR	–
16	R	–
17	V	–
22	GR	–
23	L	–

Connector No.	D110
Connector Name	LUGGAGE ROOM LAMP (BACK DOOR SIDE)
Connector Type	TK03FW

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

Connector No.	D116
Connector Name	BACK DOOR OPENER REQUEST SWITCH
Connector Type	TK02MBR-P

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

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY

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

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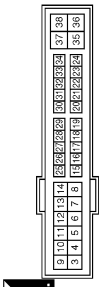
INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	D122
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS

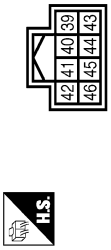
Terminal No.	Color of Wire	Signal Name [Specification]
7	SB	–
8	B	–

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1Y



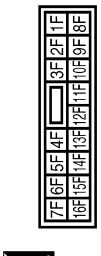
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
12	B	–
19	W	–

Connector No.	E6
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH



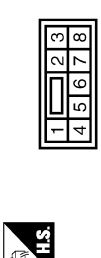
Terminal No.	Color of Wire	Signal Name [Specification]
39	P	–
40	L	–
41	B	–

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
9F	R	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
32	W	–
47	L	–
48	P	–
96	W	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
4A	P	–
5A	V	–
7A	R	–

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

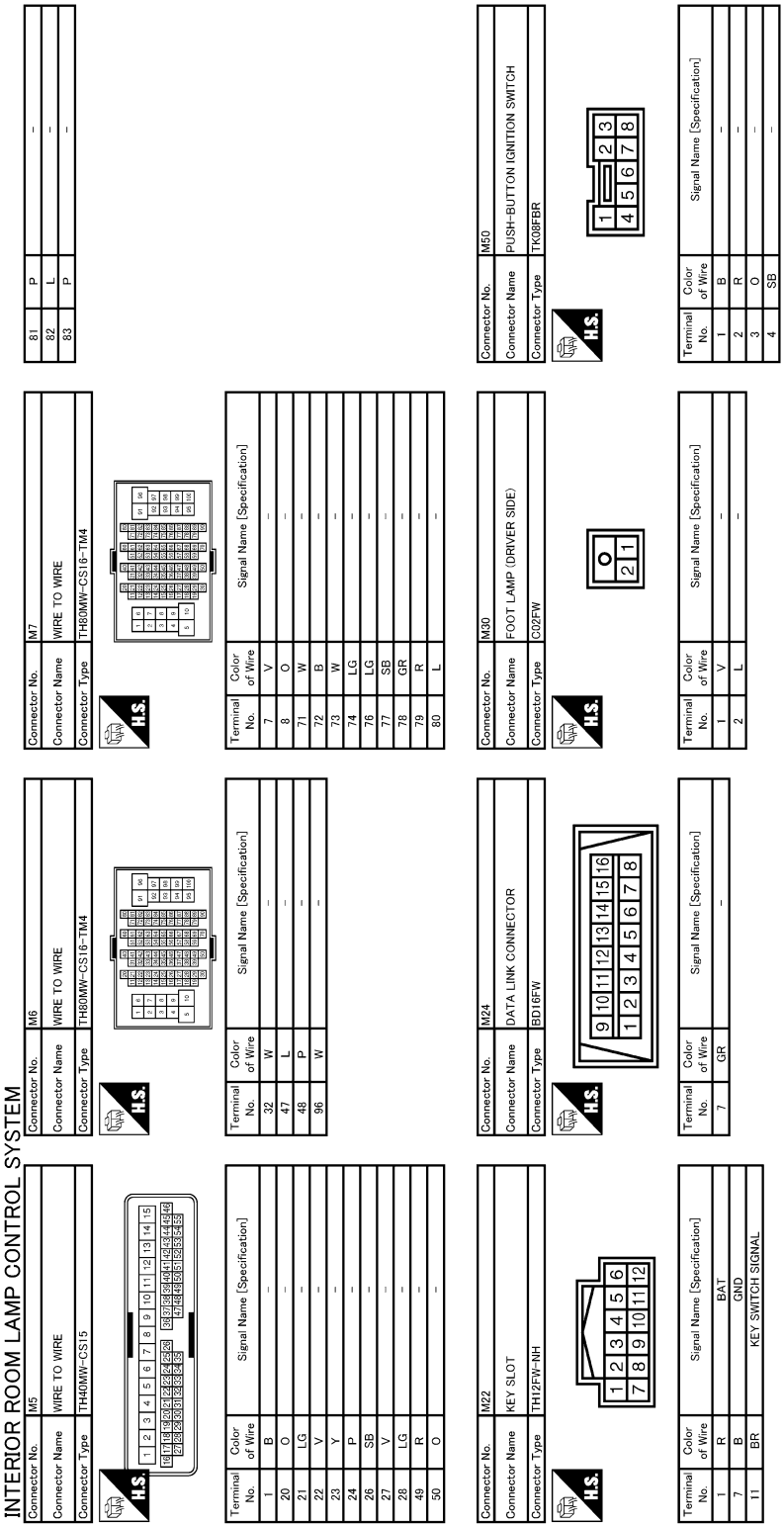
Terminal No.	Color of Wire	Signal Name [Specification]
5B	O	–
8B	R	–

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7C	B	–

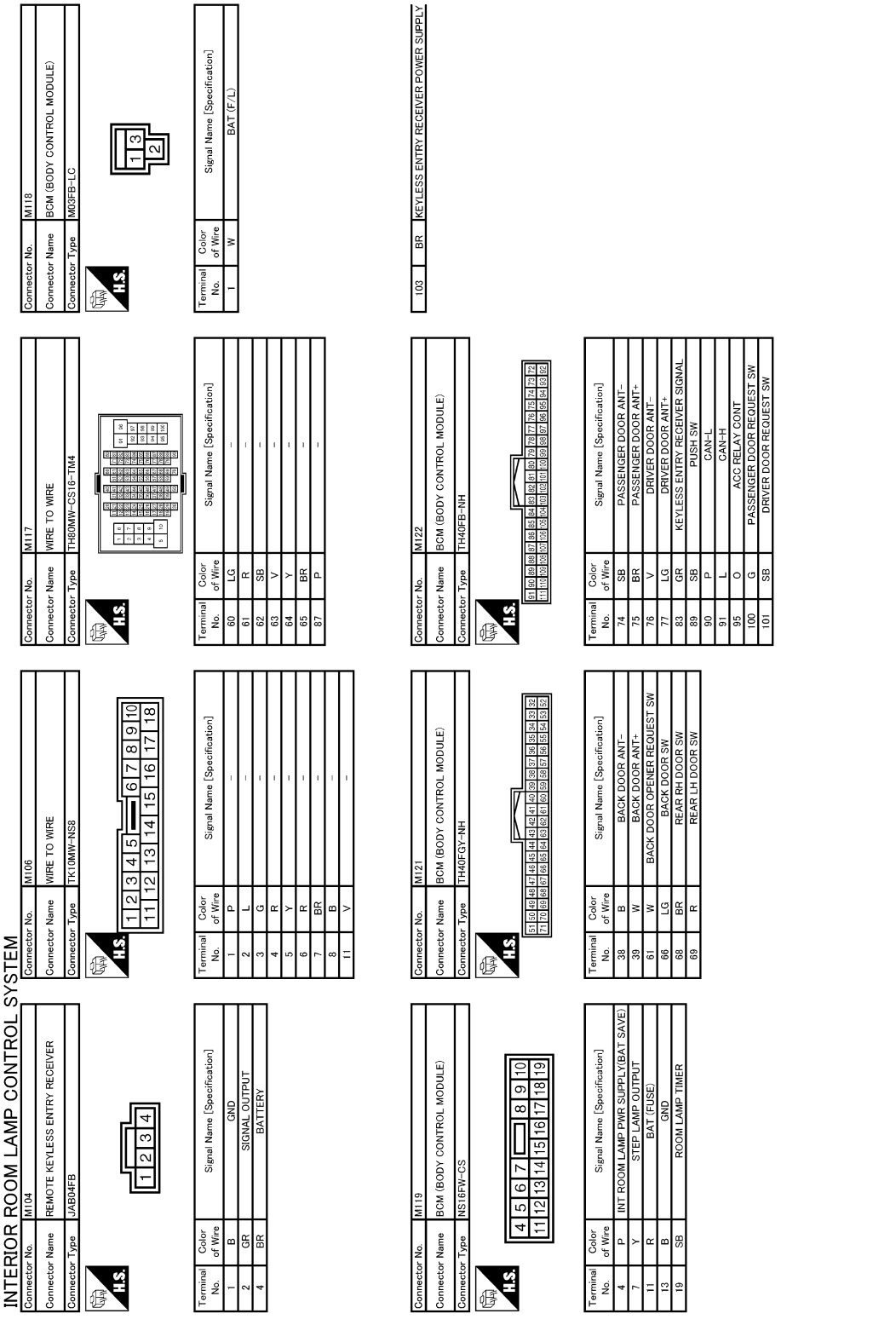
JCLWM1823GB

INTERIOR ROOM LAMP CONTROL SYSTEM



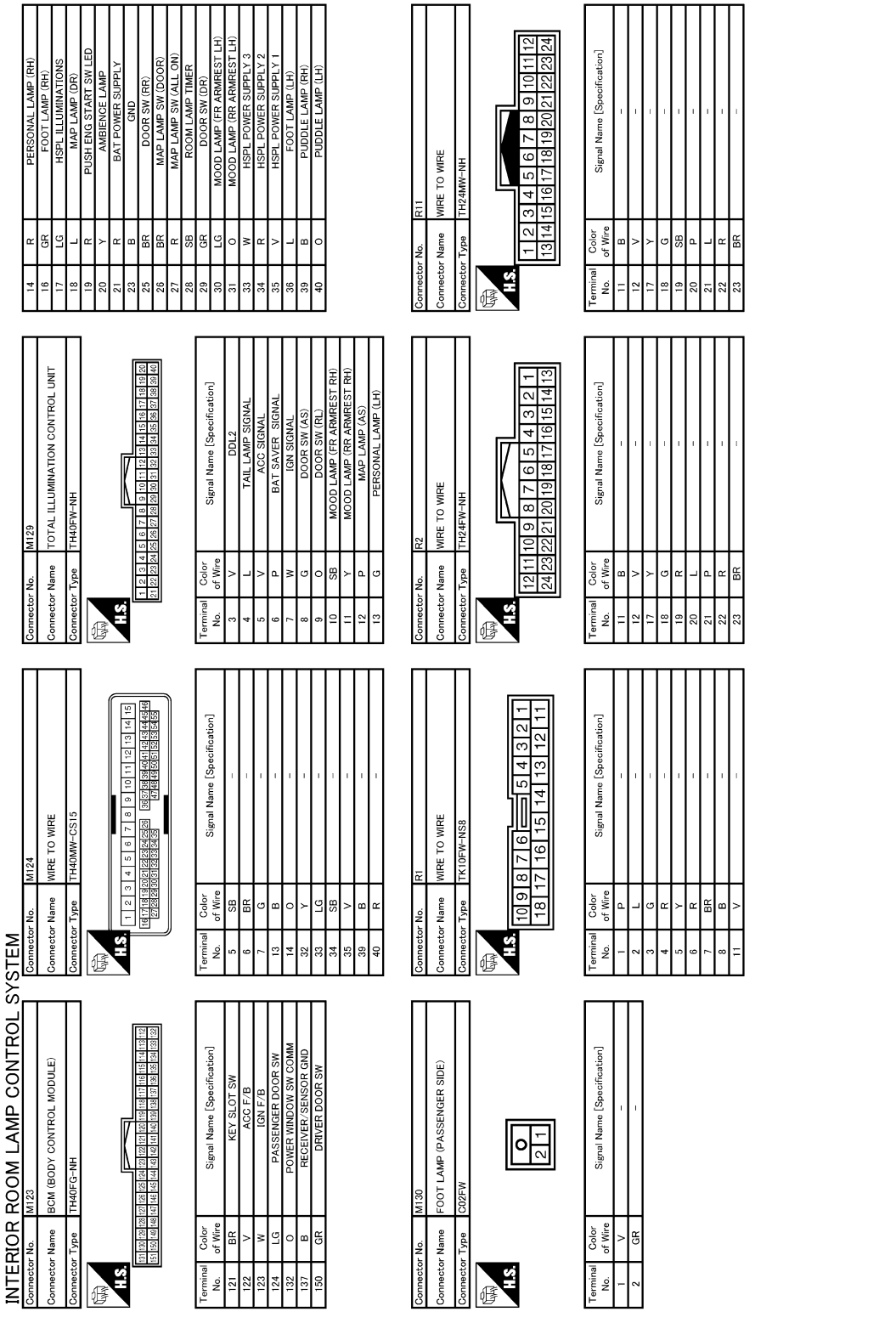
JCLWM1824GB

INTERIOR ROOM LAMP CONTROL SYSTEM



JCLWM1825GB

INTERIOR ROOM LAMP CONTROL SYSTEM



JCLWM1826GB

INTERIOR ROOM LAMP CONTROL SYSTEM

Connector No.	R12
Connector Name	VANITY MIRROR LAMP LH
Connector Type	MCA02FW

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

Connector No.	R13
Connector Name	VANITY MIRROR LAMP RH
Connector Type	MCA02FW

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

Connector No.	R14
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
3	SB	–
4	V	–

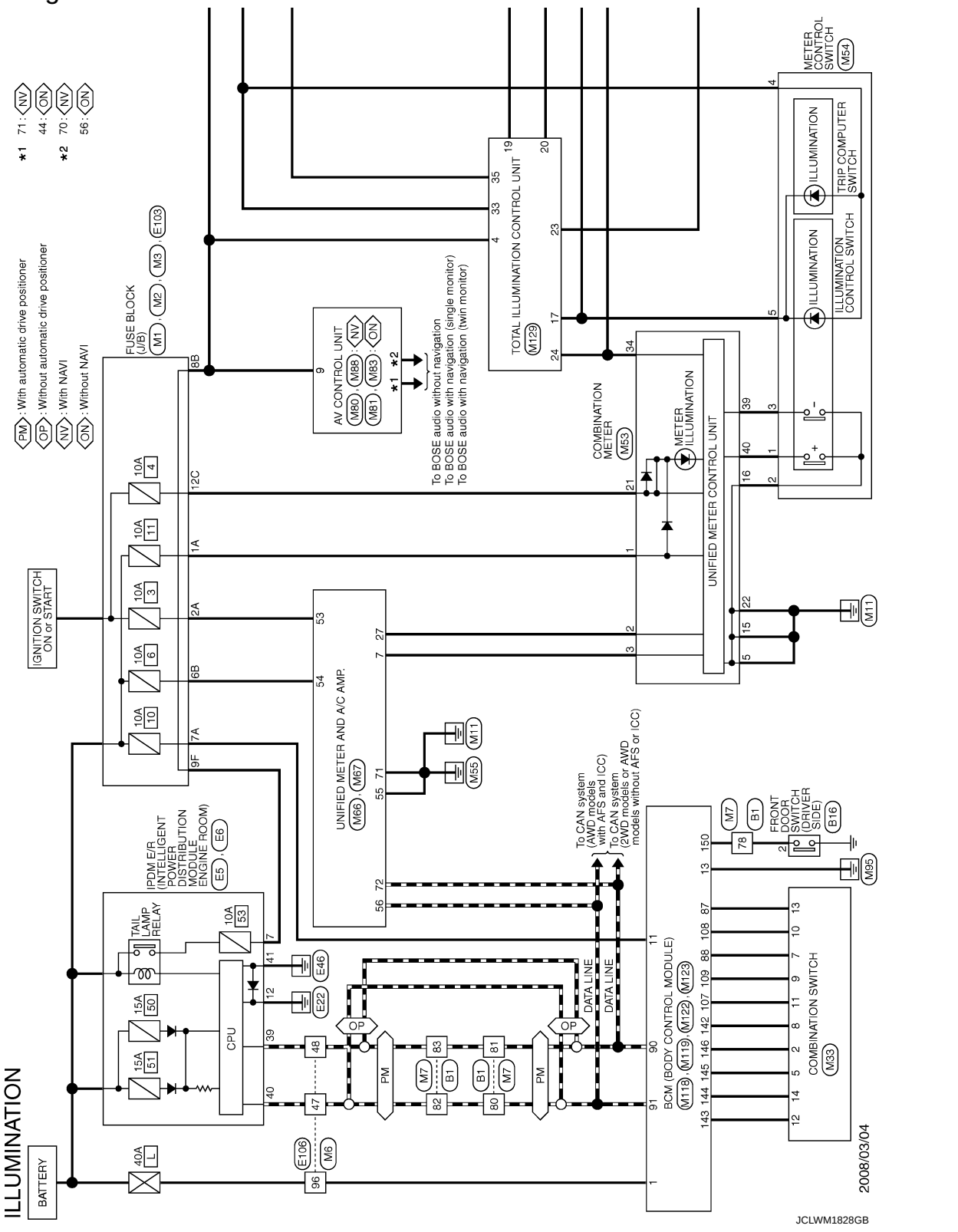
Connector No.	R15
Connector Name	MAP LAMP
Connector Type	TK10FW

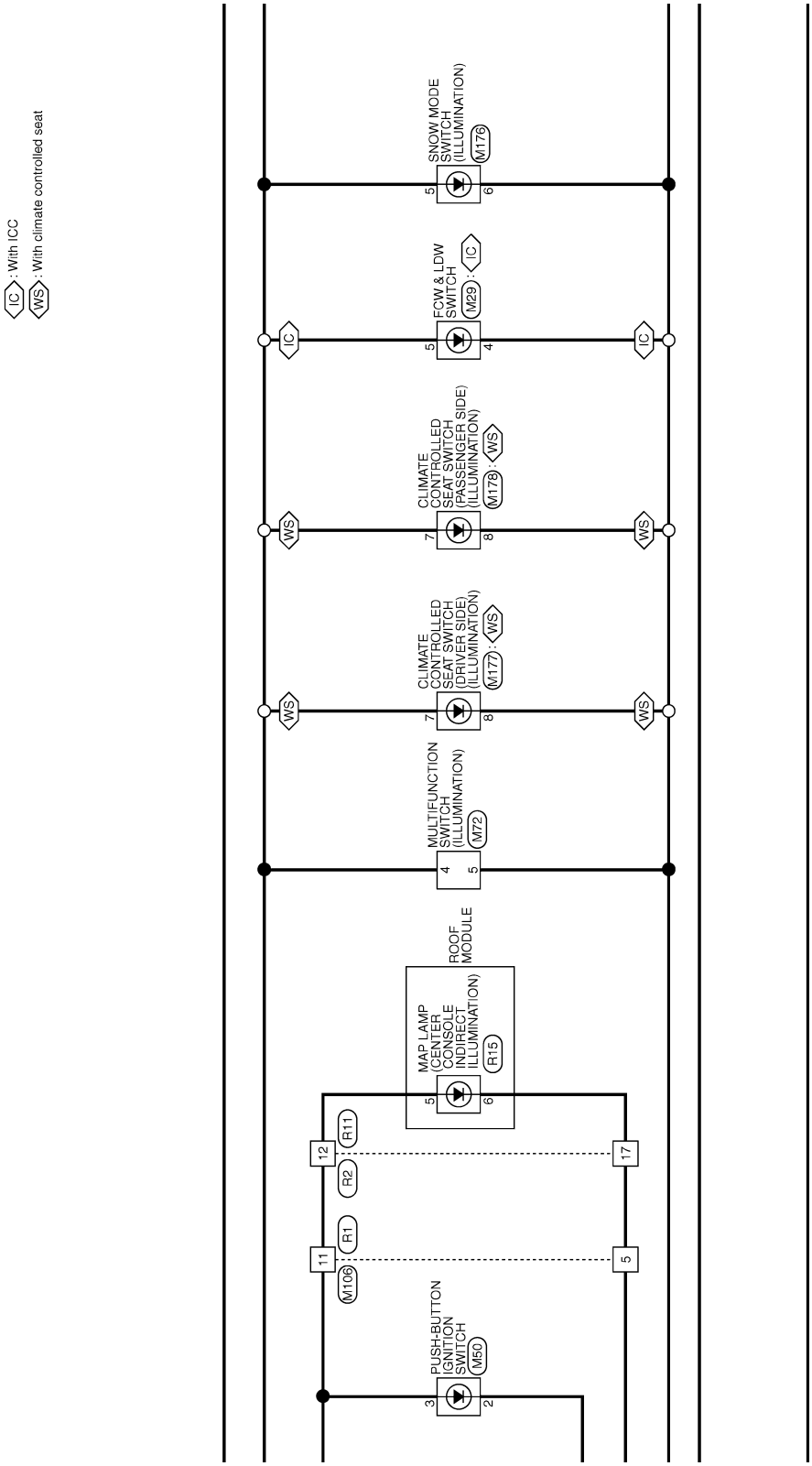
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	DOOR ON SIG
2	R	ALL ON SIG
3	B	GND
5	V	LED+
6	Y	LED–
7	P	DOOR SIG L
8	B	GND
9	L	DOOR SIG R
10	V	BAT

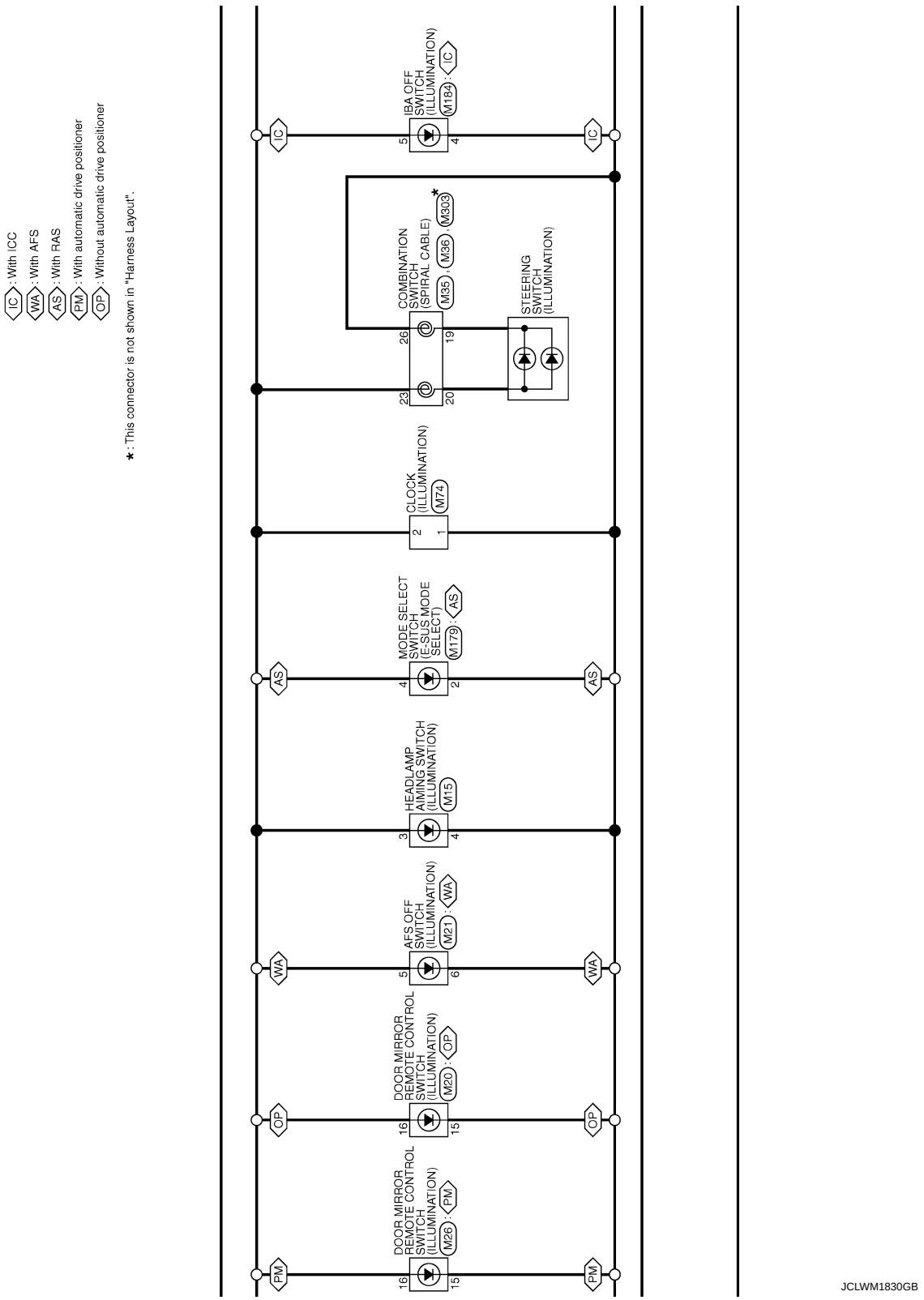
JCLWM1827GB

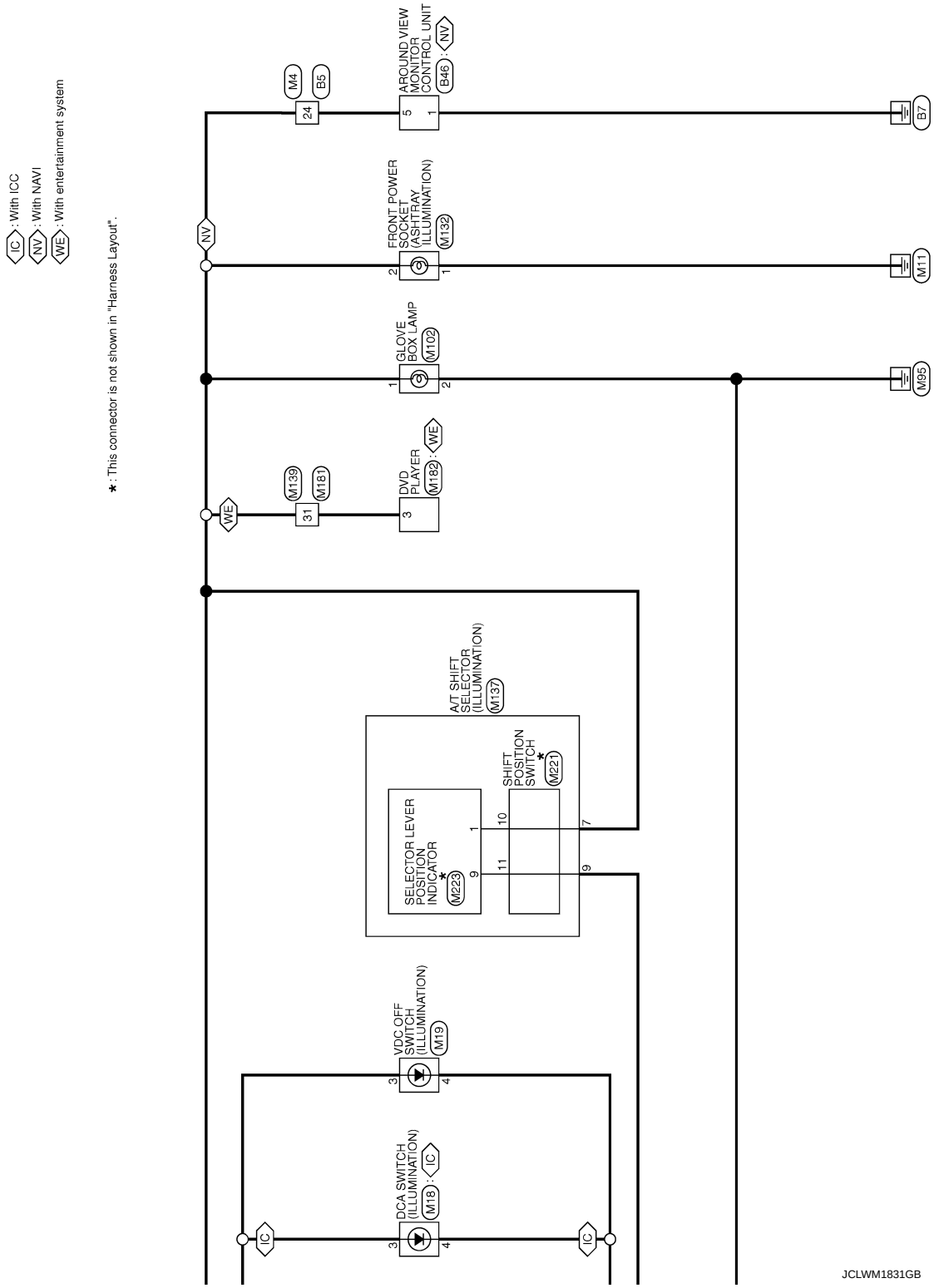
Wiring Diagram - ILLUMINATION -

INFOID:0000000004167338




IC : With ICC
WS : With climate controlled seat
SNOW MODE SWITCH (ILLUMINATION) M176
FCW & LDW SWITCH M29 : IC
CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE) (ILLUMINATION) M178 : WS
CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE) (ILLUMINATION) M177 : WS
MULTIFUNCTION SWITCH (ILLUMINATION) M72
ROOF MODULE
MAP LAMP (CENTER CONSOLE INDIRECT ILLUMINATION) R15
R11
R2
R1
M106
PUSH-BUTTON IGNITION SWITCH M50
JCLWM1829GB


IC : With ICC
WA : With AFS
AS : With RAS
PM : With automatic drive positioner
OP : Without automatic drive positioner
*: This connector is not shown in "Harness Layout".
IBA OFF SWITCH (ILLUMINATION)
M184
COMBINATION SWITCH (SPIRAL CABLE)
M303
M35
M36
STEERING SWITCH (ILLUMINATION)
CLOCK (ILLUMINATION)
M74
MODE SELECT SWITCH (E-SUS MODE SELECT)
M179
HEADLAMP AIMING SWITCH (ILLUMINATION)
M15
AFS OFF SWITCH (ILLUMINATION)
M21
DOOR MIRROR REMOTE CONTROL SWITCH (ILLUMINATION)
M20
M26
JCLWM1830GB

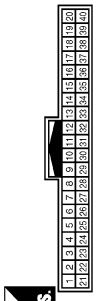

IC : With ICC
NV : With NAVI
WE : With entertainment system
★: This connector is not shown in "Harness Layout".
AROUND VIEW MONITOR CONTROL UNIT (B46) : NV
M4
B5
24
5
1
B7
FRONT POWER SOCKET (ASHTRAY ILLUMINATION) (M132)
NV
2
1
M11
GLOVE BOX LAMP (M102)
1
2
M95
DVD PLAYER (M182) : WE
M139
M181
31
WE
3
A/T SHIFT SELECTOR (ILLUMINATION) (M137)
SHIFT POSITION SWITCH ★ (M221)
SELECTOR LEVER POSITION INDICATOR ★ (M223)
1
10
7
9
11
9
VDC OFF SWITCH (ILLUMINATION) (M19)
3
4
DCA SWITCH (ILLUMINATION) (M18) : IC
IC
IC
3
4
JCLWM1831GB

ILLUMINATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
78	GR	–
80	L	–
81	P	–
82	L	–
83	P	–

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH

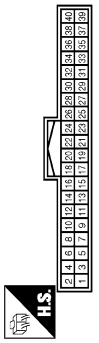


Terminal No.	Color of Wire	Signal Name [Specification]
24	R	–

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

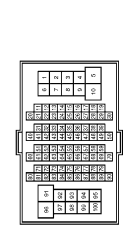
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
5	R	ILLUMINATION

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
12	B	–

Connector No.	E6
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
39	P	–
40	L	–
41	B	–

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
9F	R	–

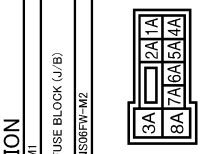
Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
47	L	–
48	P	–
96	W	–

JCLWM1832GB

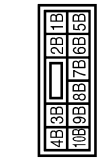
ILLUMINATION

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



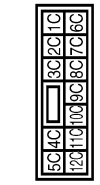
Terminal No.	Color of Wire	Signal Name [Specification]
1A	O	–
2A	G	–
7A	R	–

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



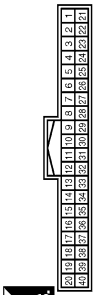
Terminal No.	Color of Wire	Signal Name [Specification]
6B	Y	–
8B	R	–

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



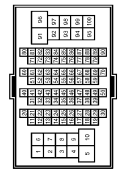
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	–

Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



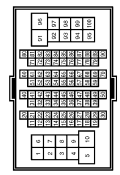
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	–

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



Terminal No.	Color of Wire	Signal Name [Specification]
47	L	–
48	P	–
96	W	–

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

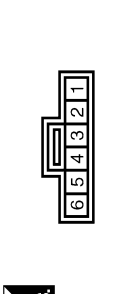


Terminal No.	Color of Wire	Signal Name [Specification]
78	GR	–
80	L	–
81	P	–
82	L	–
83	P	–

Connector No.	M15
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	R	–
4	R	–

Connector No.	M18
Connector Name	DCA SWITCH
Connector Type	TK06FGY



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	W	–

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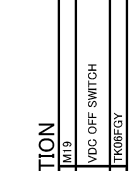
ILLUMINATION

Connector No.	M19
Connector Name	VDC OFF SWITCH
Connector Type	TK08FGY

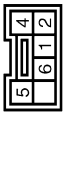


Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	LG	–

Connector No.	M20
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16FW

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	–
16	W	–

Connector No.	M21
Connector Name	AFS OFF SWITCH
Connector Type	TK08FW-1V

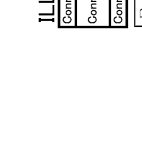


Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	R	–

Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TK16FBR

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	–
16	W	–

Connector No.	M29
Connector Name	FCW & LDW SWITCH
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–
5	R	–

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	V	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK06FY-EX-1V

Terminal No.	Color of Wire	Signal Name [Specification]
23	R	–

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

Terminal No.	Color of Wire	Signal Name [Specification]
26	B	–

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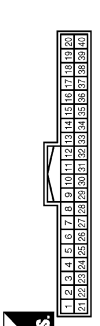
ILLUMINATION

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

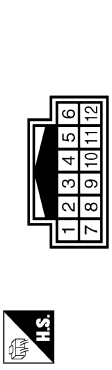
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	O	–

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



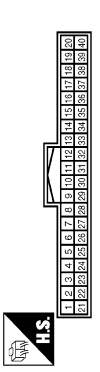
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	BAT
2	LG	COMM (METER->AMP.)
3	GR	COMM (AMP->METER)
5	B	GND
15	B	GND
16	B	METER CONTROL SW GND
21	R	IGN
22	B	GND
34	O	ILL CON OUT
39	P	ILLUMINATION CONTROL SW (-)
40	O	ILLUMINATION CONTROL SW (+)

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12MW-NH



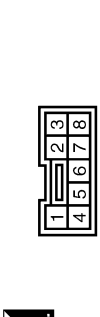
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	B	–
3	P	–
4	R	–
5	B	–

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	COMM (AMP->METER)
27	LG	COMM (METER->AMP.)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
53	G	IGN
54	Y	BAT
55	B	GND
56	L	CAN-H
71	B	GND
72	P	CAN-L

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

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	ILL
5	Y	ILL CONT

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	ILLUMINATION (-)
2	R	ILLUMINATION (+)

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2

Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

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ILLUMINATION

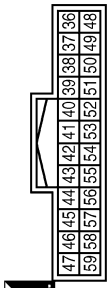
Connector No.	M61
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2

Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILLUMINATION

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
11	V	–

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH

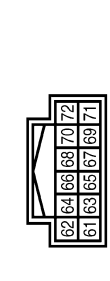


Terminal No.	Color of Wire	Signal Name [Specification]
44	BR	COMM (DISP->CONT)
56	Y	COMM (CONT->DISP)

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH

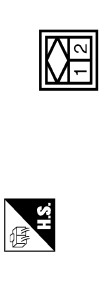


Terminal No.	Color of Wire	Signal Name [Specification]
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

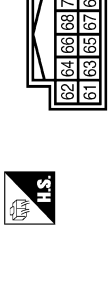
Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

Connector No.	M102
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2

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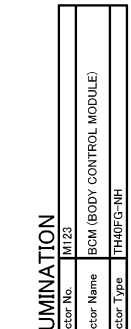
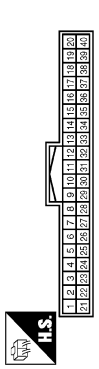
ILLUMINATION

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



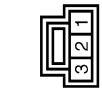
Terminal No.	Color of Wire	Signal Name [Specification]
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW

Connector No.	M129
Connector Name	TOTAL ILLUMINATION CONTROL UNIT
Connector Type	TH40FW-NH



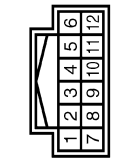
Terminal No.	Color of Wire	Signal Name [Specification]
4	L	TAIL LAMP SIGNAL
17	LG	HSPL ILLUMINATIONS
19	R	PUSH ENG START SW LED
20	Y	AMBIENCE LAMP
23	B	GND
24	O	ILL CONT INPUT
33	W	HSPL POWER SUPPLY 3
35	V	HSPL POWER SUPPLY 1

Connector No.	M132
Connector Name	FRONT POWER SOCKET
Connector Type	NS03FW-CS



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

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	–
9	B	–

Connector No.	M139
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	–

Connector No.	M176
Connector Name	SNOW MODE SWITCH
Connector Type	TK08FW

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–
6	GR	–

Connector No.	M177
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
8	R	–

Connector No.	M178
Connector Name	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–
8	R	–

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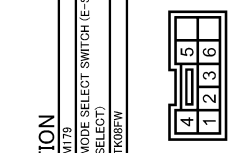
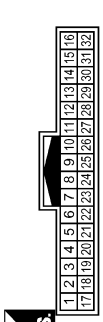
ILLUMINATION

Connector No.	M179
Connector Name	MODE SELECT SWITCH (E-SUS MODE SELECT)
Connector Type	TK08FW



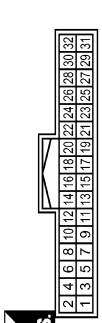
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
4	R	–

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



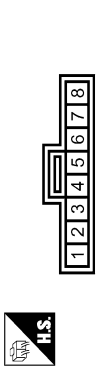
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	–

Connector No.	M182
Connector Name	DVD PLAYER
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	ILLUMINATION

Connector No.	M184
Connector Name	IBA OFF SWITCH
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
5	O	–

Connector No.	M221
Connector Name	SHIFT POSITION SWITCH
Connector Type	TH12FW

Terminal No.	Color of Wire	Signal Name [Specification]
10	R	ILL
11	B	GND

Connector No.	M223
Connector Name	SELECTOR LEVER POSITION INDICATOR
Connector Type	XARP-09V

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	ILL
9	B	GND

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
19	P	–
20	Y	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	–
11	V	–

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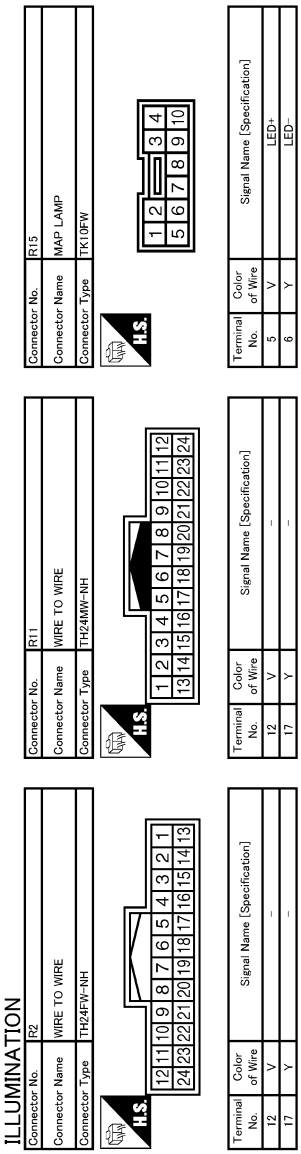

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BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000004068682

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	**NOTE:** The item is indicated, but not monitored.	Off

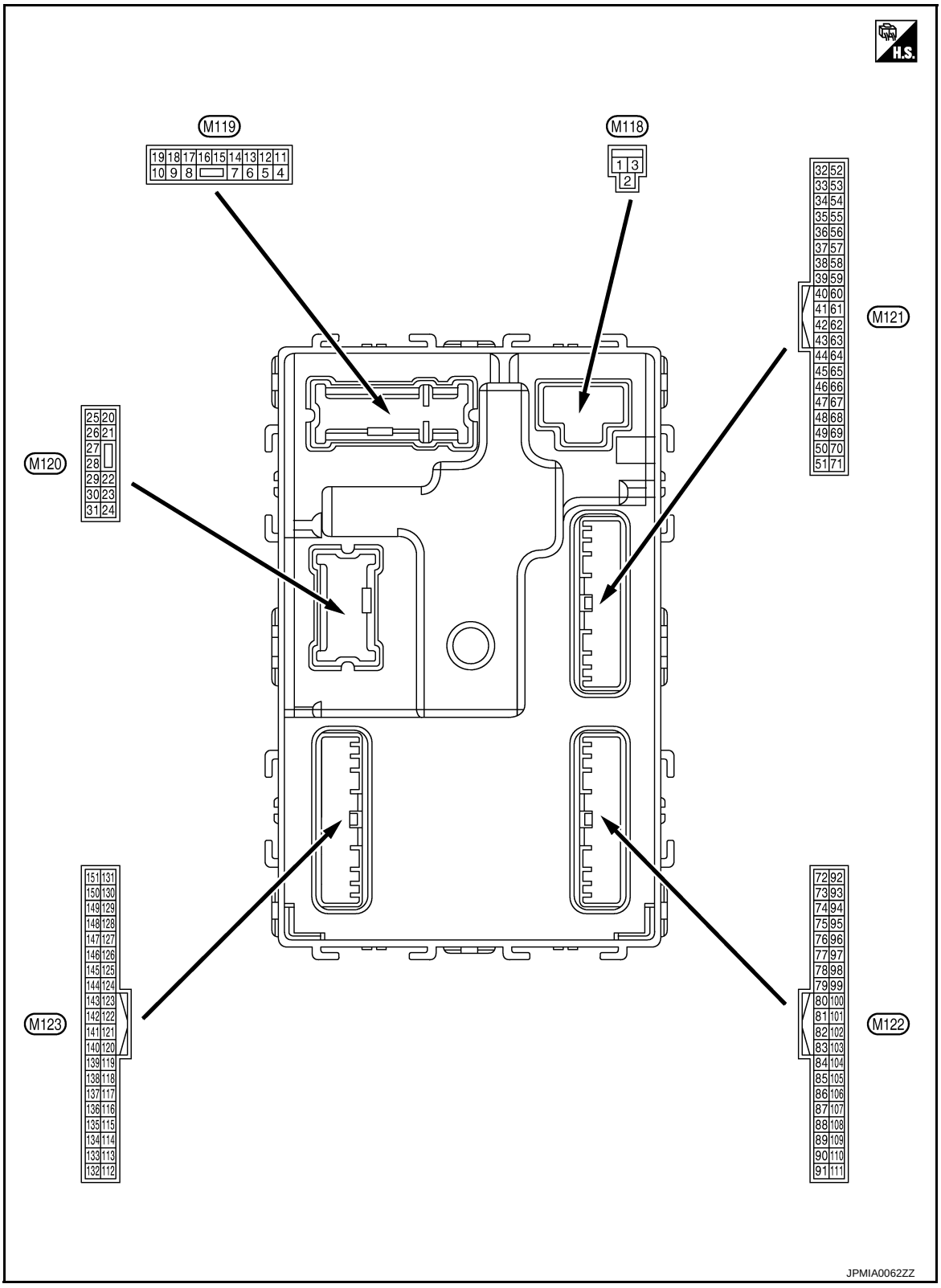
Monitor Item	Condition	Value/Status
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	**NOTE:** The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW	**NOTE:** The item is indicated, but not monitored.	Off
TR CANCEL SW	**NOTE:** The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	**NOTE:** The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	**NOTE:** The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V

Monitor Item	Condition	Value/Status
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW -RL	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
CLUCH SW	**NOTE:** The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On

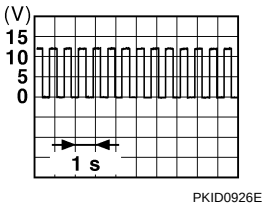
Monitor Item	Condition	Value/Status
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Steering is locked	Reset
	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	**NOTE:** The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	**NOTE:** The item is indicated, but not monitored.	—
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	Done
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

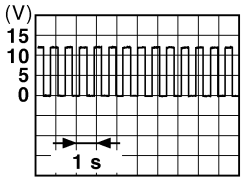
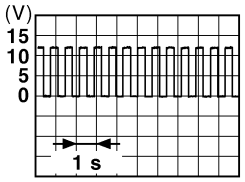
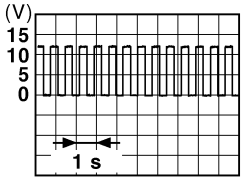
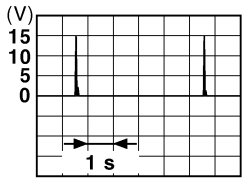
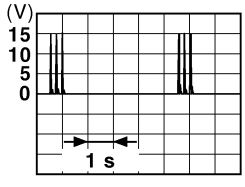
Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done

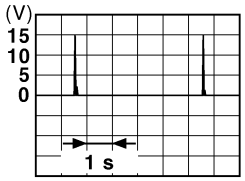
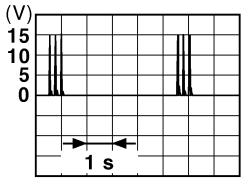
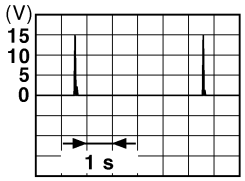
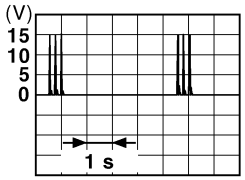
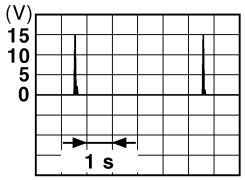
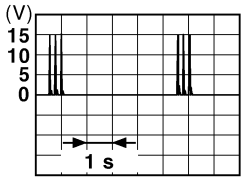
TERMINAL LAYOUT

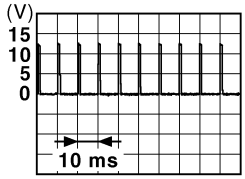
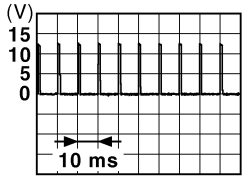
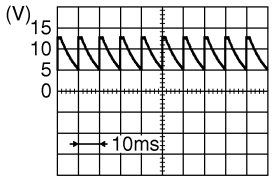
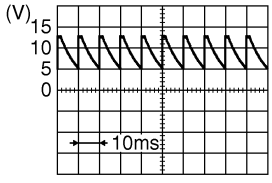


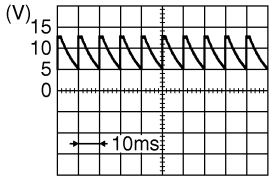
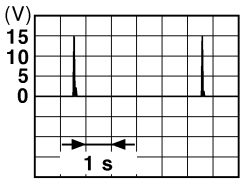
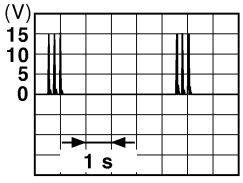
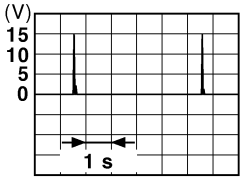
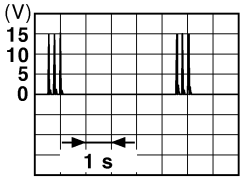
PHYSICAL VALUES

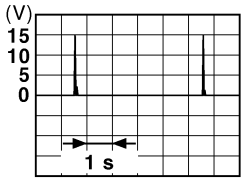
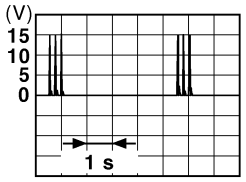
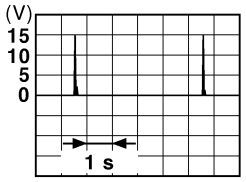
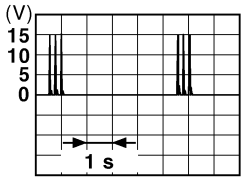
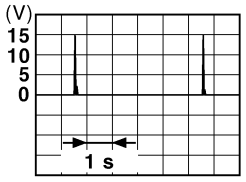
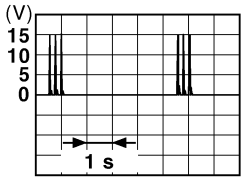
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (P)	Ground	Interior room lamp power supply (Battery saver signal)	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (V)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	12 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
10 (BR)	Ground	Rear RH door and rear LH door UNLOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC or ON	0 V
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V

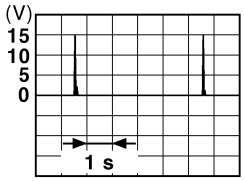
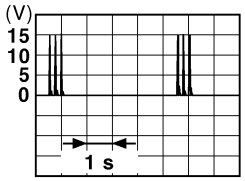
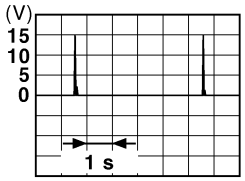
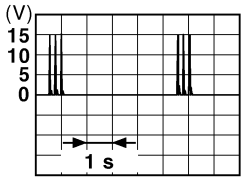
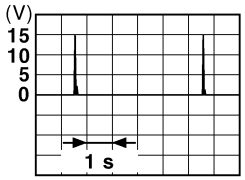
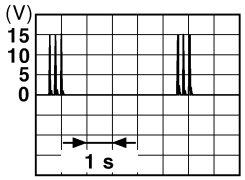
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
19 (SB)	Ground	Room lamp timer	Output	Other than under condition		5.0 V
				• Interior room lamp timer is activated. (Door is unlocked. etc...) • Welcome light function is activated.		0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V
					ON (Operated)	12 V
34 (SB)	Ground	Luggage room antenna (–)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

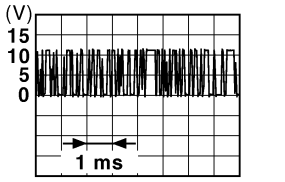
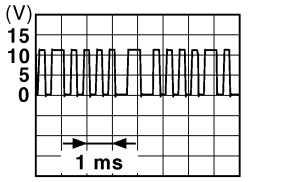
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
35 (V)	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Back door antenna (–)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
39 (W)	Ground	Back door antenna (+)	Output	When the back door opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

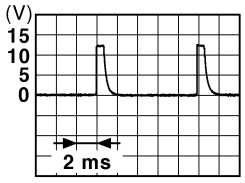
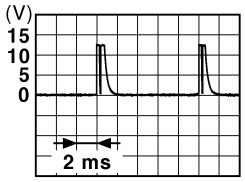
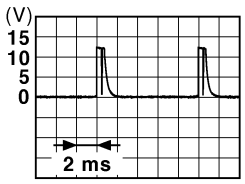
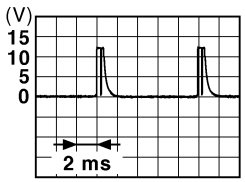
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
48 (W)	Ground	Back door opener switch operation	Output	Back door opener switch	Not pressed	12 V
					Pressed	0 V
52 (LG)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	12 V
					When selector lever is not in P or N position	0 V
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
64 (L)	Ground	Intelligent Key warning buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V
					Not sounding	12 V
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	 JPMIA0016GB 1.0 V
					Not in stop position	0 V
66 (LG)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	12 V
					ON (Door open)	0 V
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 JPMIA0594GB 8.5 - 9.0 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V

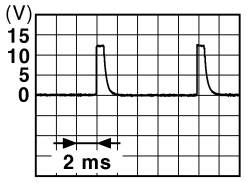
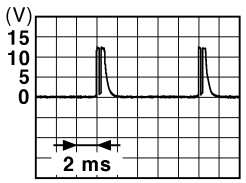
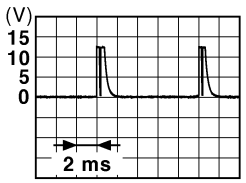
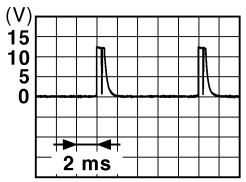
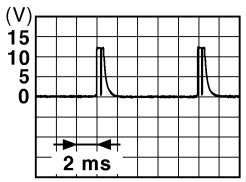
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
72 (R)	Ground	Room antenna 2 (–) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
73 (G)	Ground	Room antenna 2 (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

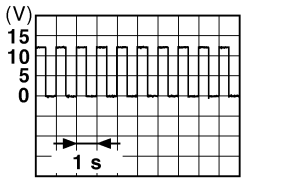
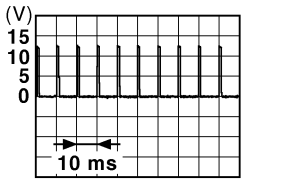
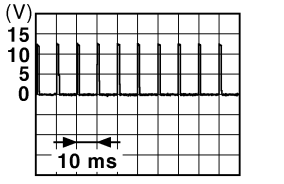
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
74 (SB)	Ground	Passenger door antenna (–)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
75 (BR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
76 (V)	Ground	Driver door antenna (–)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

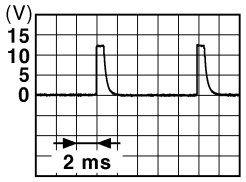
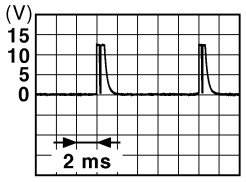
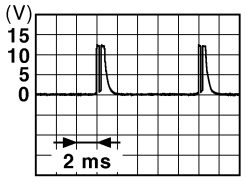
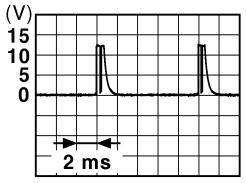
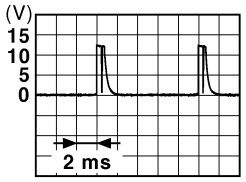
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
78 (Y)	Ground	Room antenna 1 (–) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

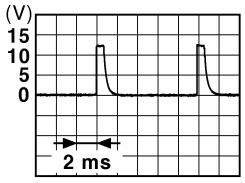
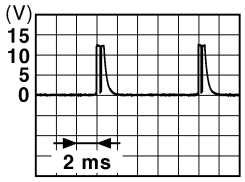
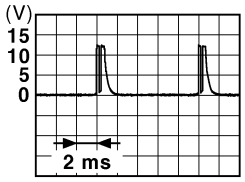
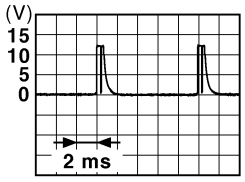
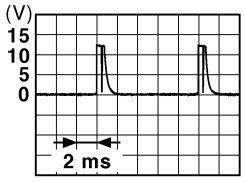
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (P)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
83 (GR)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 JMKIA0064GB
				When operating either button on the Intelligent Key		 JMKIA0065GB

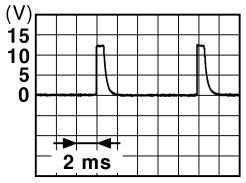
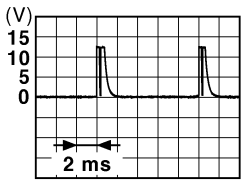
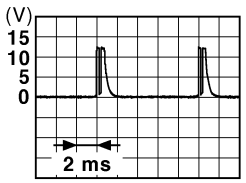
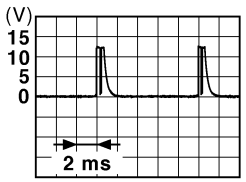
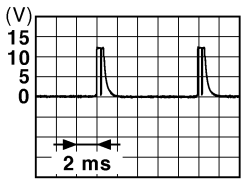
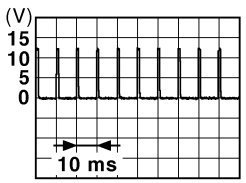
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Front fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Rear wiper switch ON (Wiper intermittent dial 4)	 JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 JPMIA0040GB 1.3 V

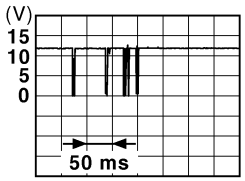
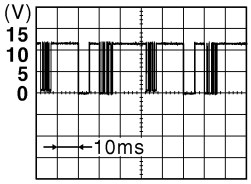
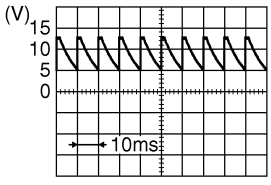
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	 JPMIA0039GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	 JPMIA0040GB 1.3 V
89 (SB)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (Push switch)	Pressed	0 V
					Not pressed	12 V
90 (P)	Ground	CAN-L	Input/ Output	—		—
91 (L)	Ground	CAN-H	Input/ Output	—		—

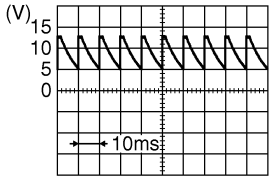
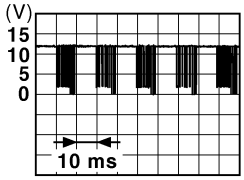
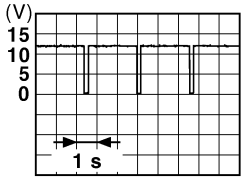
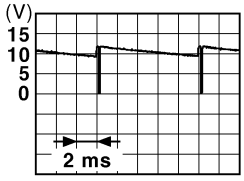
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	12 V
					Blinking	 JPMIA0015GB 6.5 V
					ON	0 V
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output	—		12 V
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	12 V
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V
					UNLOCK status	0 V
99 (R)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V
					Any position other than P	12 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V

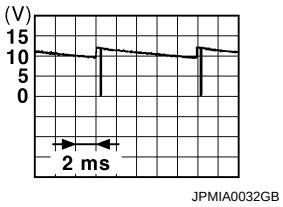
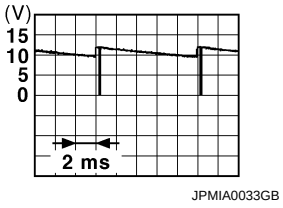
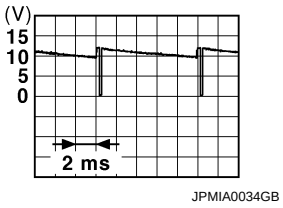
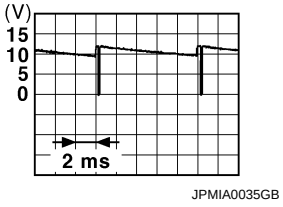
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
					Turn signal switch RH	 JPMIA0036GB 1.3 V
					Front wiper switch LO	 JPMIA0038GB 1.3 V
					Front washer switch ON	 JPMIA0039GB 1.3 V

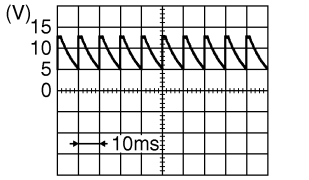
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	 JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Rear wiper switch INT (Wiper intermittent dial 4)	 JPMIA0040GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	 JPMIA0039GB 1.3 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 JPMIA0041GB 1.4 V
					Lighting switch PASS	 JPMIA0037GB 1.3 V
					Lighting switch 2ND	 JPMIA0036GB 1.3 V
					Front wiper switch INT	 JPMIA0038GB 1.3 V
					Front wiper switch HI	 JPMIA0040GB 1.3 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
					OFF	 JPMIA0012GB 1.1 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	12 V
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UNLOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		 JPMIA0156GB 8.7 V
113 (P)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
116 (BR)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (P)	Ground	Stop lamp switch 2 (Without ICC)	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
		Stop lamp switch 2 (With ICC)		Stop lamp switch OFF (Brake pedal is not depressed) and ICC brake hold relay OFF		0 V
				Stop lamp switch ON (Brake pedal is depressed) or ICC brake hold relay ON		Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0594GB 8.5 - 9.0 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (BR)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
				When the Intelligent Key is not inserted into key slot		0 V
122 (V)	Ground	ACC feedback	Input	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage

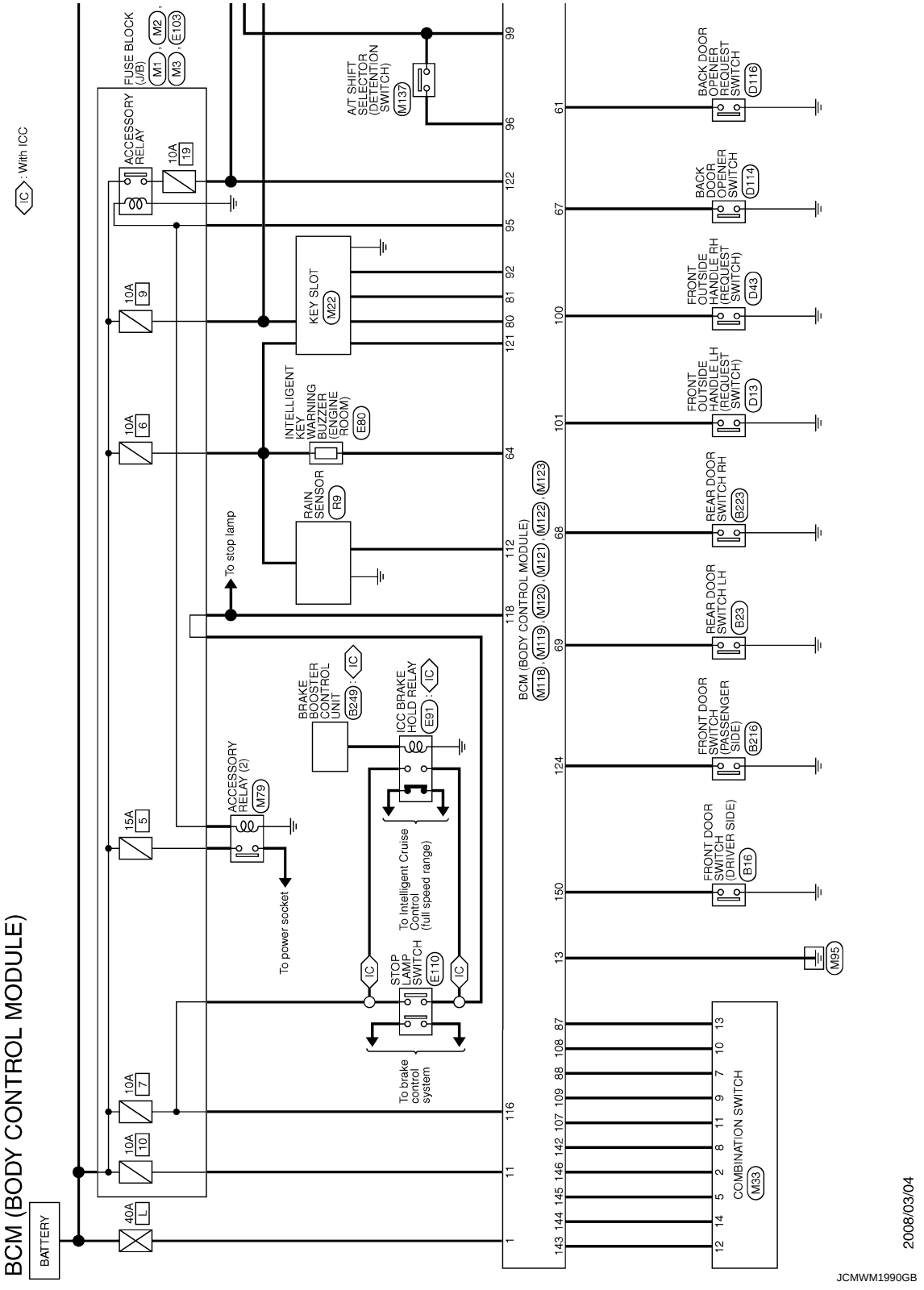
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door opene)	0 V
132 (O)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		12 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
140 (R)	Ground	Selector lever P/N position	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	12 V
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit-tent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	

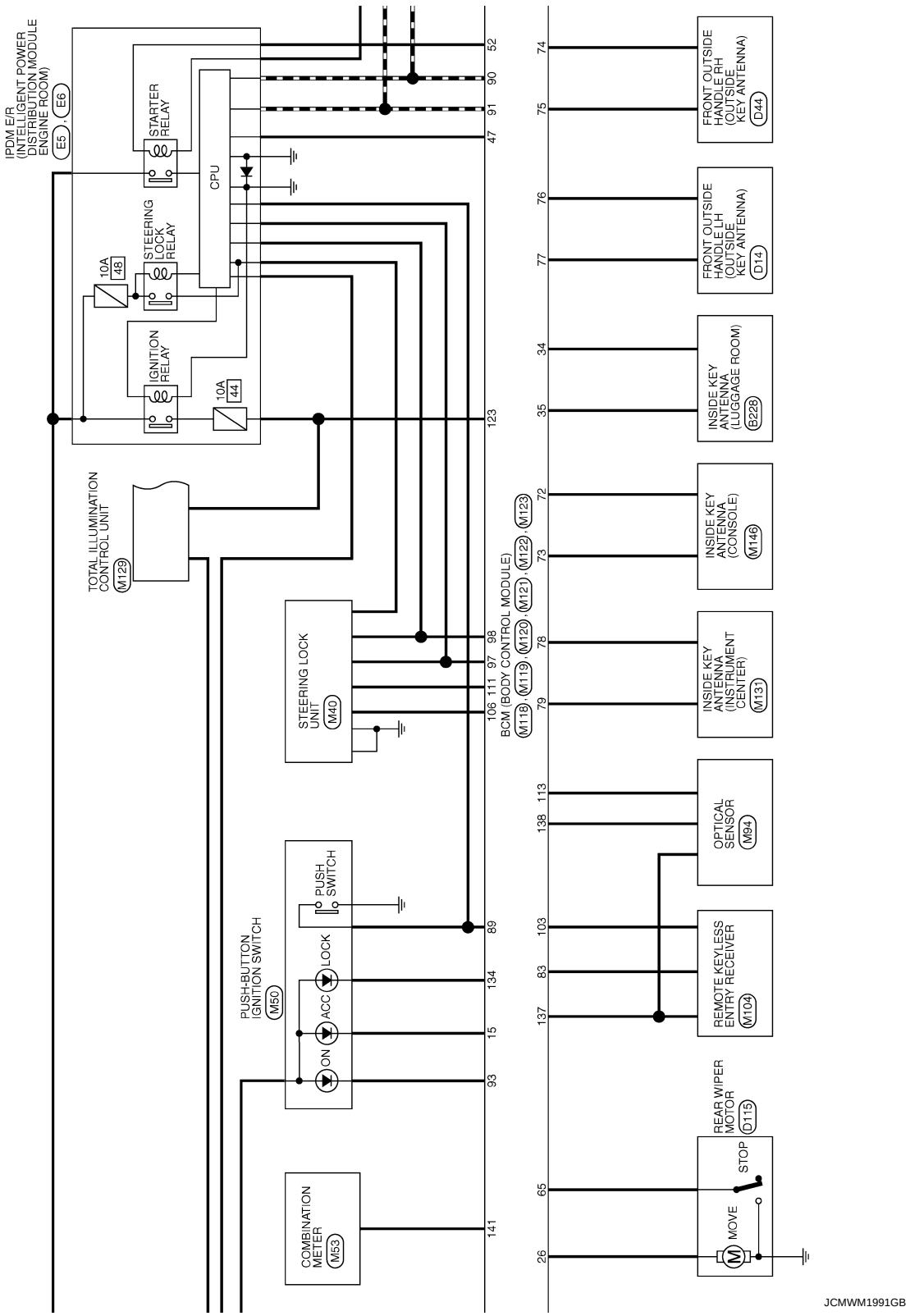
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 JPMIA0032GB 10.7 V
					Rear wiper switch INT (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 JPMIA0033GB 10.7 V
					Rear wiper switch ON (Wiper intermittent dial 4)	
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Front wiper switch INT	 JPMIA0034GB 10.7 V
					Front wiper switch LO	
					Lighting switch AUTO	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	 JPMIA0035GB 10.7 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	

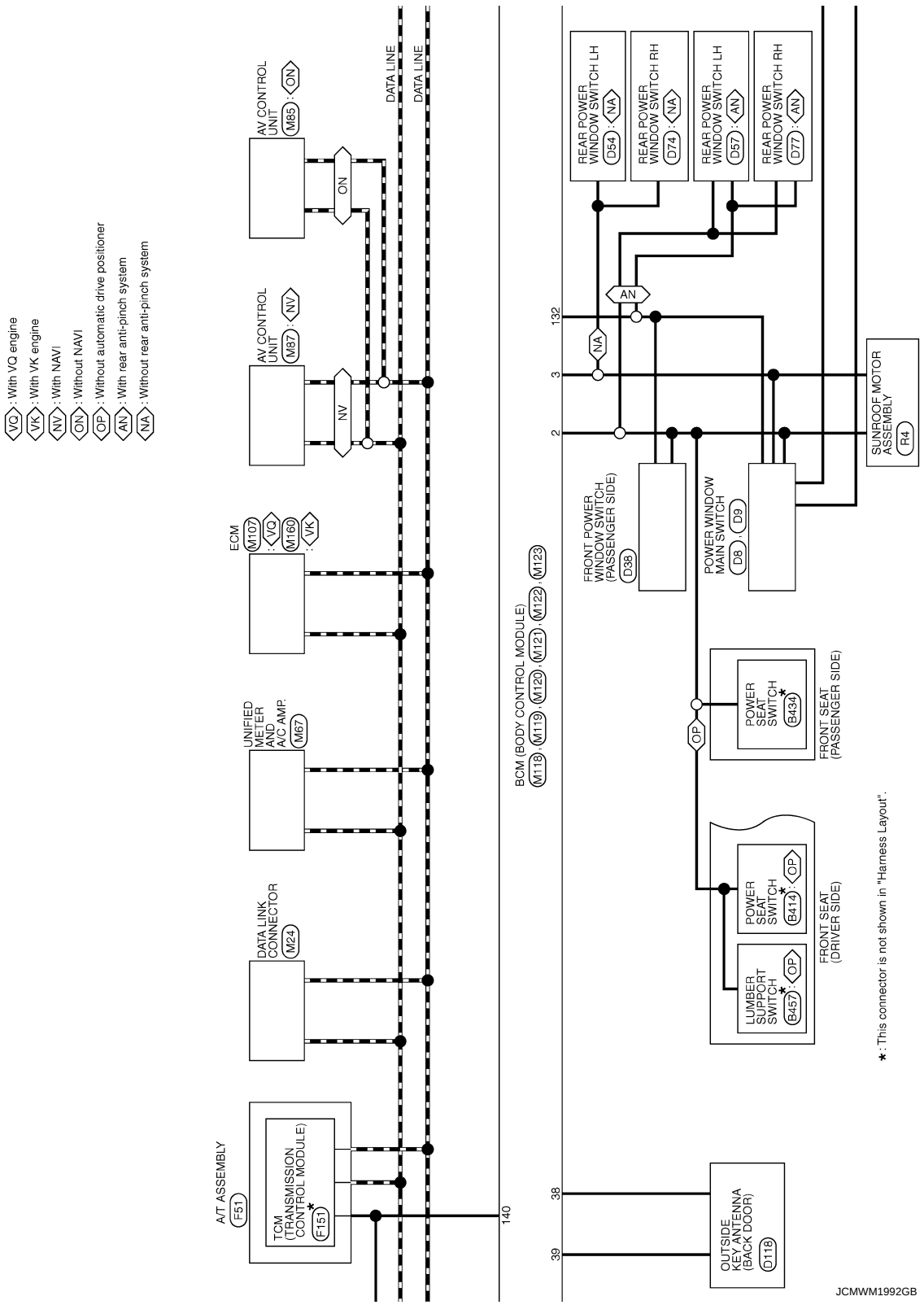
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

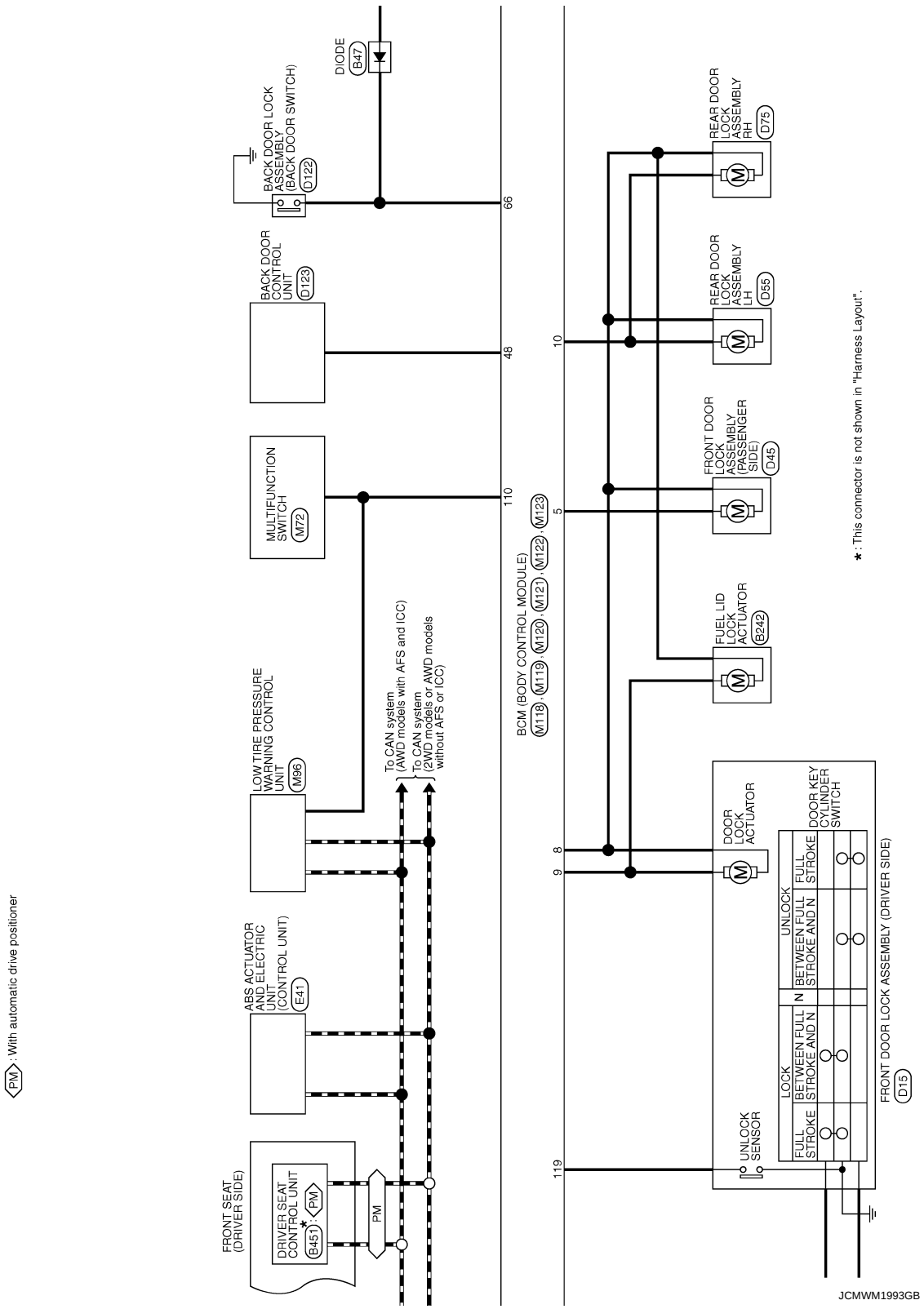
Wiring Diagram - BCM -

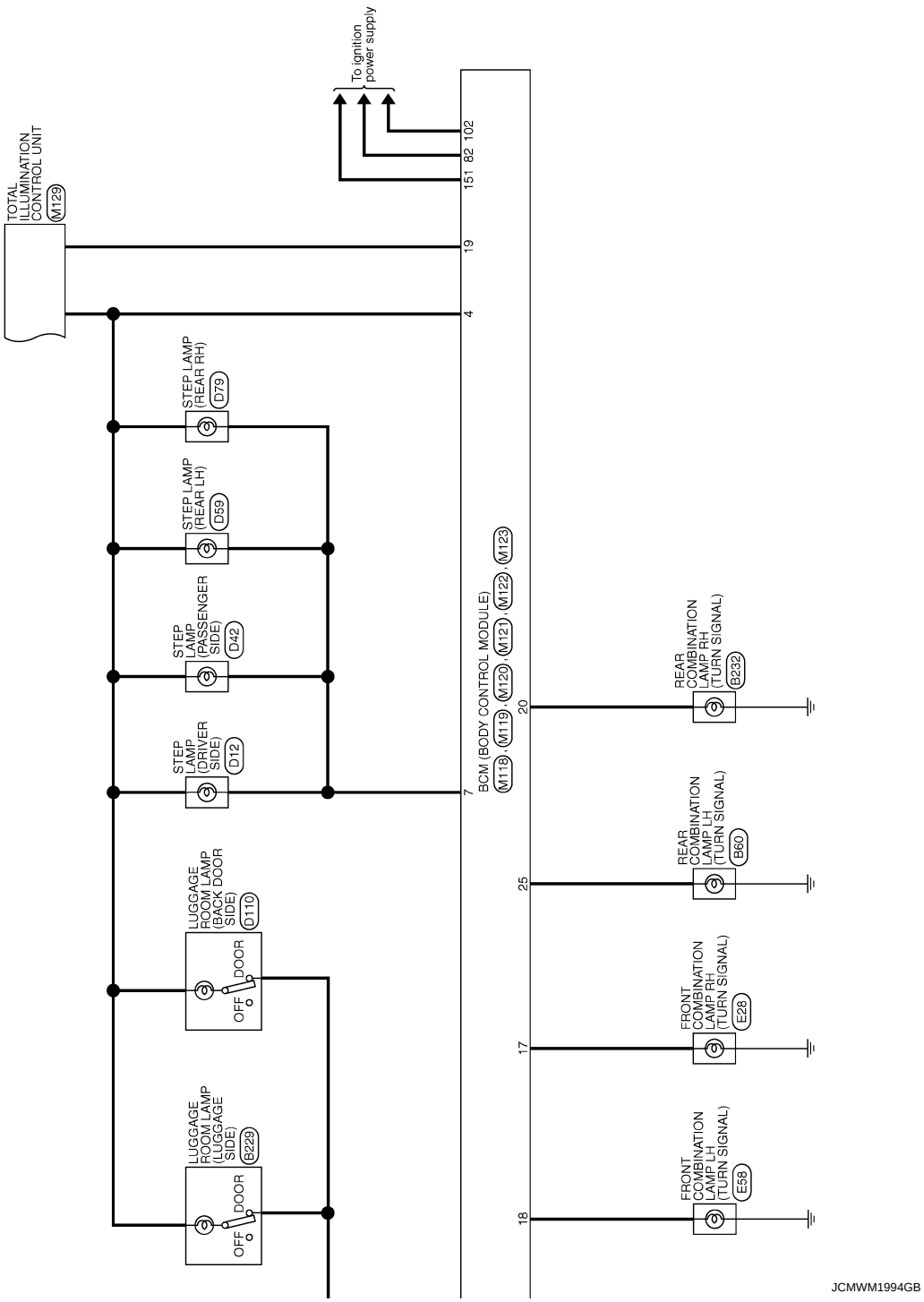
INFOID:0000000004068683




IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E5, E6
STARTER RELAY
CPU
STEERING LOCK RELAY
10A 48
IGNITION RELAY
10A 44
TOTAL ILLUMINATION CONTROL UNIT M129
STEERING LOCK UNIT M40
PUSH-BUTTON IGNITION SWITCH M50
PUSH SWITCH
LOCK
ACC
ON
COMBINATION METER M53
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
52 90 91 47 123 98 97 111 106 89 134 15 93 141
74 75 76 77 34 35 72 73 78 79 113 138 103 83 137 65 26
FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA) D44
FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA) D14
INSIDE KEY ANTENNA (LUGGAGE ROOM) B228
INSIDE KEY ANTENNA (CONSOLE) M146
INSIDE KEY ANTENNA (INSTRUMENT CENTER) M131
OPTICAL SENSOR M94
REMOTE KEYLESS ENTRY RECEIVER M104
REAR WIPER MOTOR D115
STOP
MOVE
JCMWM1991GB


VQ : With VQ engine
VK : With VK engine
NV : With NAVI
ON : Without NAVI
OP : Without automatic drive positioner
AN : With rear anti-pinch system
NA : Without rear anti-pinch system
AV CONTROL UNIT (M85) : ON
AV CONTROL UNIT (M87) : NV
DATA LINE
DATA LINE
ECM (M107) : VQ (M160) : VK
UNIFIED METER AND A/C AMP. (M67)
DATA LINK CONNECTOR (M24)
A/T ASSEMBLY (F51)
TCM (TRANSMISSION CONTROL MODULE) (F151)*
140
BCM (BODY CONTROL MODULE) (M118), (M119), (M120), (M121), (M122), (M123)
132
3
2
38
39
REAR POWER WINDOW SWITCH LH (D54) : NA
REAR POWER WINDOW SWITCH RH (D74) : NA
REAR POWER WINDOW SWITCH LH (D57) : AN
REAR POWER WINDOW SWITCH RH (D77) : AN
AN
NA
SUNROOF MOTOR ASSEMBLY (R4)
FRONT POWER WINDOW SWITCH (PASSENGER SIDE) (D38)
POWER WINDOW MAIN SWITCH (D8) : D9
OP
POWER SEAT SWITCH* (B434)
FRONT SEAT (PASSENGER SIDE)
LUMBER SUPPORT SWITCH* (B457) : OP
POWER SEAT SWITCH* (B414) : OP
FRONT SEAT (DRIVER SIDE)
OUTSIDE KEY ANTENNA (BACK DOOR) (D118)
*: This connector is not shown in "Harness Layout".
JCMWM1992GB


PM : With automatic drive positioner
FRONT SEAT (DRIVER SIDE)
DRIVER SEAT CONTROL UNIT B451 PM
PM
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) E41
LOW TIRE PRESSURE WARNING CONTROL UNIT M96
To CAN system (AWD models with AFS and ICC)
To CAN system (2WD models or AWD models without AFS or ICC)
MULTIFUNCTION SWITCH M72
BACK DOOR CONTROL UNIT D123
BACK DOOR LOCK ASSEMBLY (BACK DOOR SWITCH) D122
DIODE B47
66
48
110
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
10
5
8
9
119
REAR DOOR LOCK ASSEMBLY RH D75
REAR DOOR LOCK ASSEMBLY LH D55
FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) D45
FUEL LID LOCK ACTUATOR B242
DOOR LOCK ACTUATOR
UNLOCK SENSOR
DOOR KEY CYLINDER SWITCH
LOCK
UNLOCK
N
FULL STROKE
BETWEEN FULL STROKE AND N
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) D15
*: This connector is not shown in "Harness Layout".
JCMWM1993GB


To ignition power supply
151 82 102
TOTAL ILLUMINATION CONTROL UNIT (M129)
19
4
STEP LAMP (REAR RH) (D79)
STEP LAMP (REAR LH) (D59)
STEP LAMP (PASSENGER SIDE) (D42)
STEP LAMP (DRIVER SIDE) (D12)
LUGGAGE ROOM LAMP (BACK DOOR SIDE) (D110)
OFF DOOR
LUGGAGE ROOM LAMP (LUGGAGE SIDE) (B229)
OFF DOOR
7
BCM (BODY CONTROL MODULE) (M118), (M119), (M120), (M121), (M122), (M123)
20
REAR COMBINATION LAMP RH (TURN SIGNAL) (B232)
25
REAR COMBINATION LAMP LH (TURN SIGNAL) (B60)
17
FRONT COMBINATION LAMP RH (TURN SIGNAL) (E28)
18
FRONT COMBINATION LAMP LH (TURN SIGNAL) (E58)
JCMWM1994GB

BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	V	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
25	G	TURN SIGNAL LH (REAR)
26	G	REAR WIPER OUTPUT

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY(BAT)
3	O	POWER WINDOW POWER SUPPLY(RAP)

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	LUGGAGE ROOM ANT-
35	V	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT-
39	W	BACK DOOR ANT+
47	Y	IGN RELAY (IPDM E/R) CONT
48	W	BK DOOR OPENER SW OPERATION
52	LG	STARTER RELAY CONT
61	W	BACK DOOR OPENER REQUEST SW
64	L	I-KEY WARN BUZZER (ENG ROOM)
65	O	REAR WIPER STOP POSITION
66	LG	BACK DOOR SW

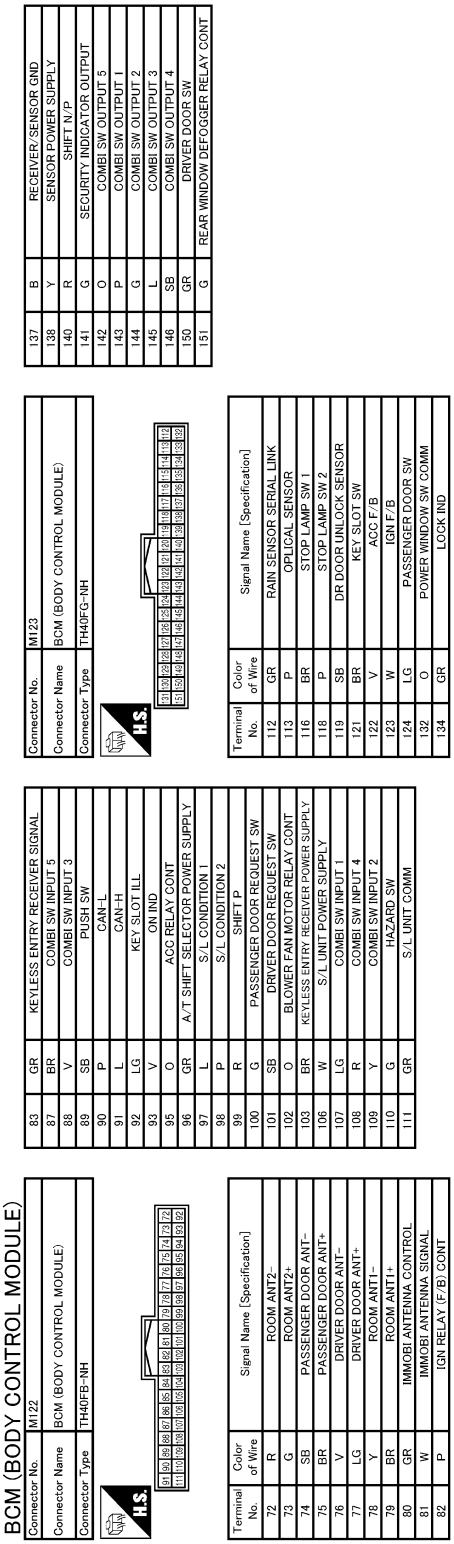
Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY(BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)

67	P	BACK DOOR OPENER SW
68	BR	REAR RH DOOR SW
69	R	REAR LH DOOR SW

I19	SB	ROOM LAMP TIMER

JCMWM1995GB



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Fail-safe

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FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	500 ms after the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When the following steering lock conditions agree • BCM steering lock control status • Steering lock condition No. 1 signal status • Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When any of the following conditions are fulfilled • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E9: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.
BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:
The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:
If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.
When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation
1. More than 1 minute is passed after the rear wiper stops.

2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	B2562: LOW VOLTAGE
2	• U1000: CAN COMM • U1010: CONTROL UNIT (CAN)
3	• B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING
4	• B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2612: S/L STATUS • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • U0415: VEHICLE SPEED SIG
5	• B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

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NOTE:
The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to INL-21, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-34
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-35
U0415: VEHICLE SPEED SIG	—	—	—	BCS-36
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-51
B2190: NATS ANTENNA AMP	×	—	—	SEC-42
B2191: DIFFERENCE OF KEY	×	—	—	SEC-45
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-46
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-48
B2195: ANTI SCANNING	×	—	—	SEC-49
B2553: IGNITION RELAY	—	×	—	PCS-50
B2555: STOP LAMP	—	×	—	SEC-54
B2556: PUSH-BTN IGN SW	—	×	×	SEC-56
B2557: VEHICLE SPEED	×	×	×	SEC-58
B2560: STARTER CONT RELAY	×	×	×	SEC-59
B2562: LOW VOLTAGE	—	×	—	BCS-37
B2601: SHIFT POSITION	×	×	×	SEC-60
B2602: SHIFT POSITION	×	×	×	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	SEC-65
B2604: PNP SW	×	×	×	SEC-68
B2605: PNP SW	×	×	×	SEC-70
B2606: S/L RELAY	×	×	×	SEC-72
B2607: S/L RELAY	×	×	×	SEC-73
B2608: STARTER RELAY	×	×	×	SEC-75
B2609: S/L STATUS	×	×	×	SEC-77
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	SEC-81
B260C: STEERING LOCK UNIT	—	×	×	SEC-82
B260D: STEERING LOCK UNIT	—	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	SEC-84
B2612: S/L STATUS	×	×	×	SEC-88
B2614: ACC RELAY CIRC	—	×	×	PCS-54
B2615: BLOWER RELAY CIRC	—	×	×	PCS-56
B2616: IGN RELAY CIRC	—	×	×	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	SEC-92
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-94
B261A: PUSH-BTN IGN SW	—	×	×	SEC-95
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-98

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
B2621: INSIDE ANTENNA	—	×	—	DLK-61
B2622: INSIDE ANTENNA	—	×	—	DLK-63
B2623: INSIDE ANTENNA	—	×	—	DLK-65
B26E7: TPMS CAN COMM	—	—	—	BCS-38
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-86
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-87

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000003824849

CAUTION:

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

SYMPTOMS BY ITEM

1. Identify the malfunctioning by checking each lamp (whether it can turn ON or not).
2. Check the malfunction combinations.
3. Identify the malfunctioning part from the agreed combination and repair or replace the part.

NOTE:

When a lamp other than those in the following table is not turned ON/OFF, check the bulb, the lamp housing, and the direct circuit.

Malfunction item: ×

Map lamps*1	Personal lamps*1	Center console indirect illumination	Vanity mirror lamp	Foot lamps	Push-button ignition switch illumination	Mood lamp (Rear door armrest)	Puddle lamps	Mood lamp (Front door armrest)	Illuminations*2 (Linked with hospitality lighting)	Step lamps	Luggage room lamps	Inspection item (Reference)
×	×	×	×	×	×	×	×	×	×	×	×	Interior room lamp power supply circuit (INL-28)
×	×	×	×	×	×	×	×	×	×			1. Power supply and ground circuit of total illumination control unit (INL-26) 2. Battery saver signal circuit (INL-30)
×	×	×	×	×	×	×						Hospitality lighting power supply 1 circuit (INL-31)
							×	×				Hospitality lighting power supply 2 circuit (INL-34)
×	×											Map lamp main switch circuit (INL-64)
×												Map lamp circuit (INL-38)
	×											Personal lamp circuit (INL-40)
		×										Center console indirect illumination circuit (INL-42)
			×									The lamp housing and the direct circuit (INL-72)
				×								Foot lamp circuit (INL-44)
					×							Push-button ignition switch illumination circuit (INL-51)
						×						Mood lamp (Rear door armrest) circuit (INL-53)
							×					Puddle lamp circuit (INL-47)
								×				Mood lamp (Front door armrest) circuit (INL-49)
									×			1. Hospitality lighting power supply 3 circuit (INL-36) 2. Hospitality illumination circuit (INL-55)
										×		Step lamp circuit (INL-58)
											×	The lamp housing and the direct circuit (INL-72)

*1: Map lamp main switch ALL ON or DOOR

*2: Refer to INL-36, "Description" for linked illuminations.

SYMPTOMS BY FUNCTION

Symptom	Inspection item (Reference)
When any door is opened, applicable map lamp or personal lamp is not turned ON. (It is turned ON when turning the map lamp main switch ALL ON.)	Door switch circuit (INL-66)
Interior room lamp timer does not activate. (It is turned ON/OFF when turning the map lamp main switch ALL ON/OFF.)	Room lamp timer circuit (INL-70).
Illuminations are not turned ON when tail lamp is ON. [They are turned ON when hospitality lighting is operated. (Hospitality lighting functioning table “Scene 3”)]	Tail lamp signal circuit (INL-60)
Brightness of illuminations is not adjustable by the illumination control switch when tail lamp is ON. (Meter illumination control is normal.)	Illumination control signal circuit (INL-62)
Interior room lamp battery saver does not activate.	Check the interior room lamp battery saver setting. (INL-24)

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 which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “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:

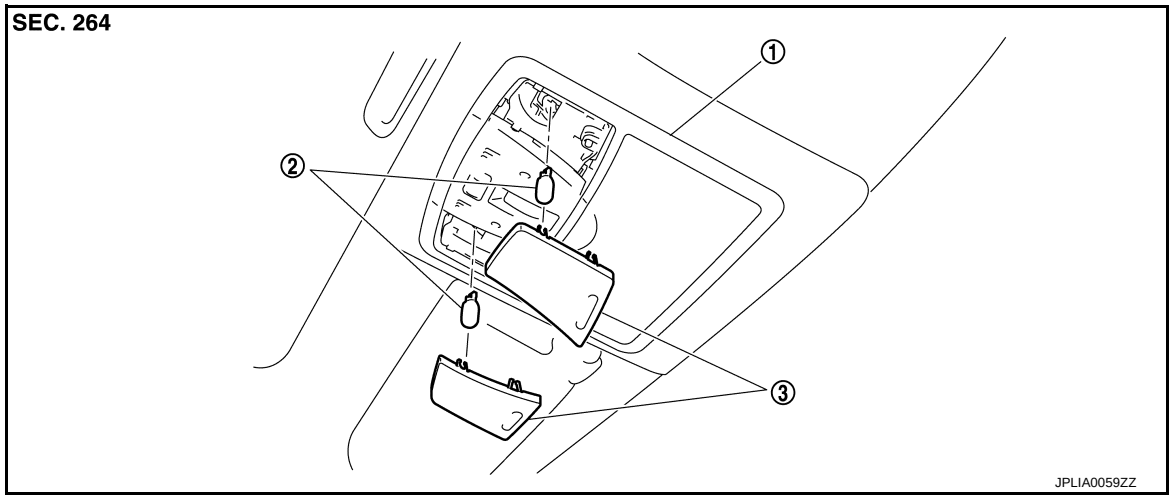
- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious 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.**

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:0000000003824851



1. Map lamp assembly
2. Bulb
3. Lens

Removal and Installation

INFOID:0000000003824852

Refer toINT-23, "Exploded View" for the map lamp assembly installation/removal.

Replacement

INFOID:0000000003824853

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 it turns 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, always replace it with new one.**

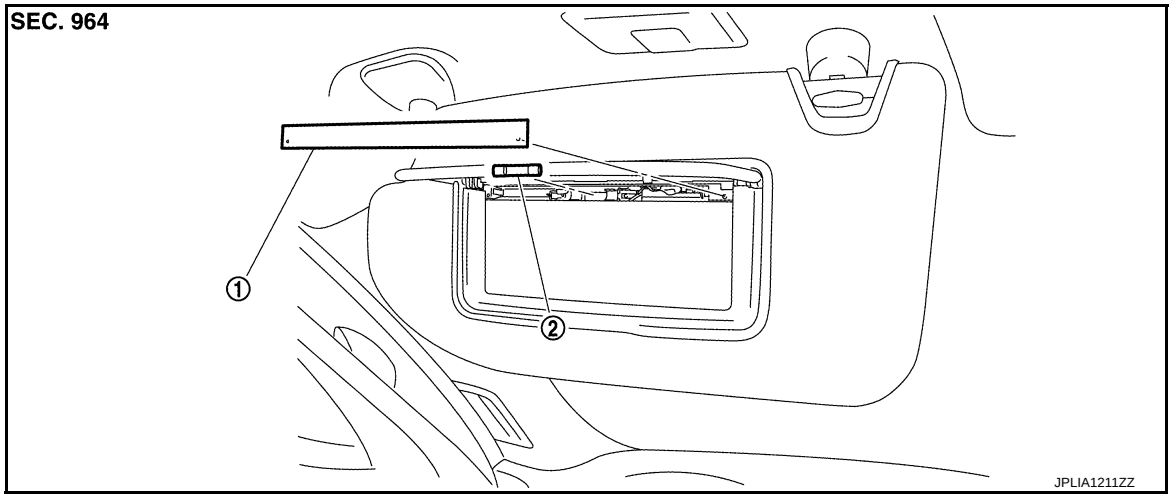
MAP LAMP BULB

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

VANITY MIRROR LAMP

Exploded View

INFOID:0000000003824854



1. Lens
2. Bulb

Replacement

INFOID:0000000003824855

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 it turns 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, always replace it with new one.**

VANITY MIRROR LAMP BULB

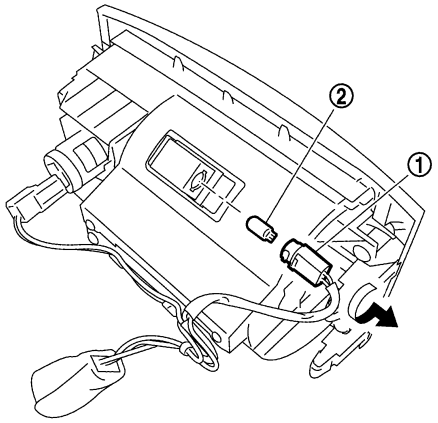
1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

ASHTRAY ILLUMINATION

Exploded View

INFOID:0000000003949854

SEC. 969



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1. Bulb socket
2. Bulb

Replacement

INFOID:0000000003949855

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 it turns 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, always replace it with new one.**

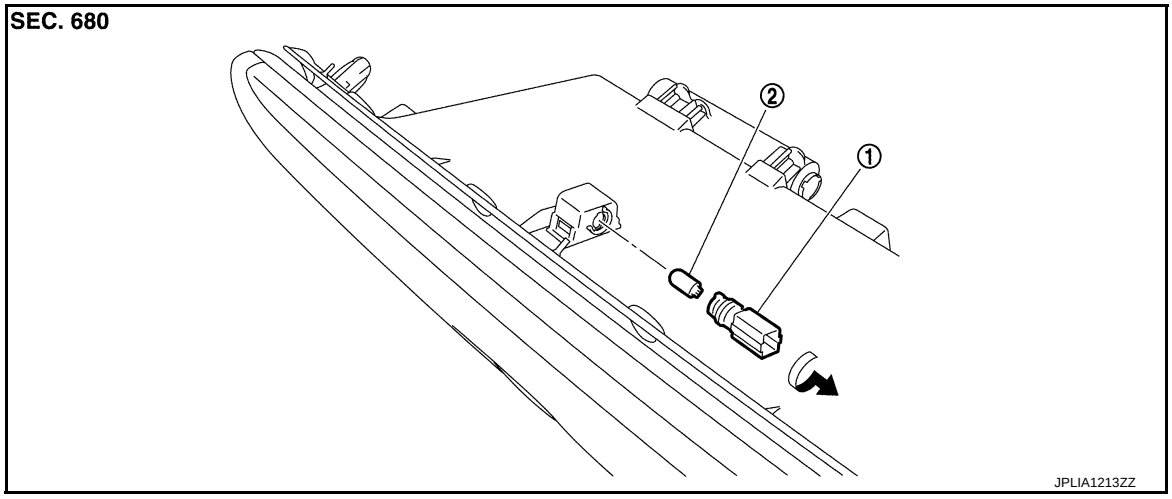
ASHTRAY ILLUMINATION BULB

1. Remove the console pocket assembly. Refer to IP-22, "Exploded View".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

GLOVE BOX LAMP

Exploded View

INFOID:0000000003824858



1. Bulb socket
2. Bulb

Replacement

INFOID:0000000003824859

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 it turns 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, always replace it with new one.**

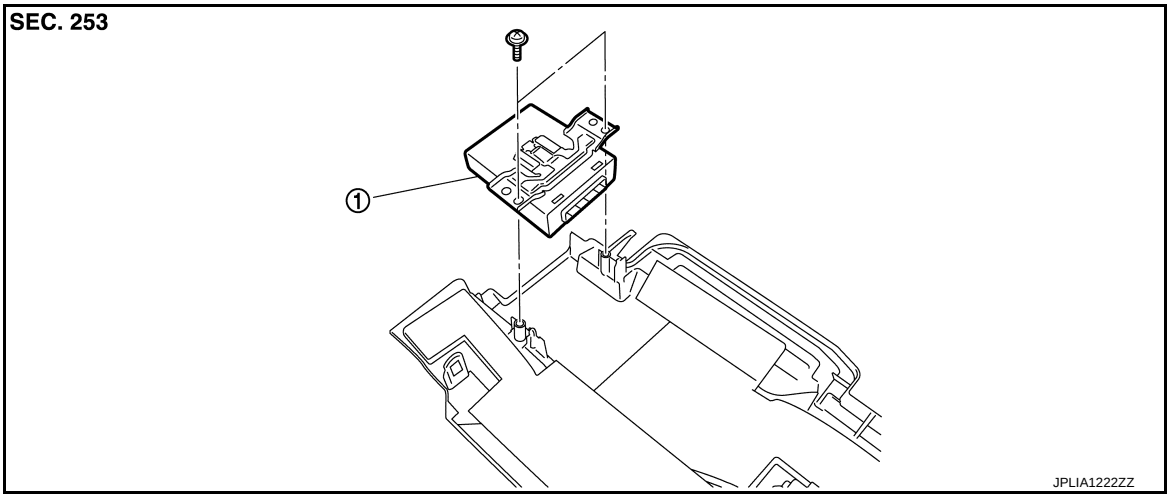
GLOVE BOX LAMP BULB

1. Remove the glove box assembly. Refer to IP-11, "Exploded View".
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

TOTAL ILLUMINATION CONTROL UNIT

Exploded View

INFOID:0000000003949968



1. Total illumination control unit

Removal and Installation

INFOID:0000000003949969

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Remove the instrument lower cover RH. Refer to IP-11, "Exploded View".
2. Remove the screw. And then remove the total illumination control unit.

INSTALLATION

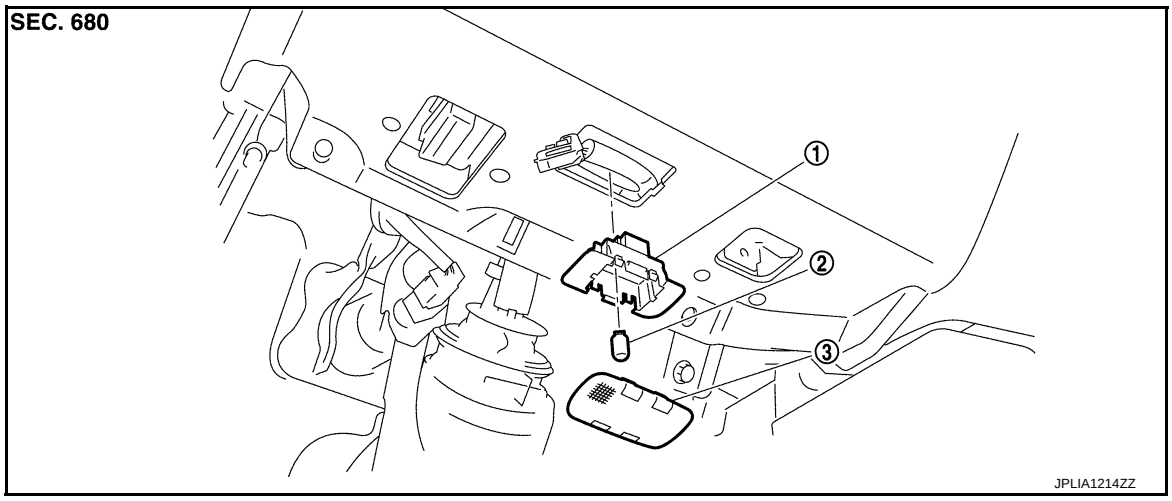
Install in the reverse order of removal.

FOOT LAMP

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000003824860



1. Foot lamp case (driver side)
2. Bulb
3. Lens

DRIVER SIDE : Removal and Installation

INFOID:0000000003949875

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the foot lamp and the instrument lower cover LH. Remove the foot lamp.
2. Disconnect the foot lamp connector.

INSTALLATION

Install in the reverse order of removal.

DRIVER SIDE : Replacement

INFOID:0000000003824861

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 it turns 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, always replace it with new one.**

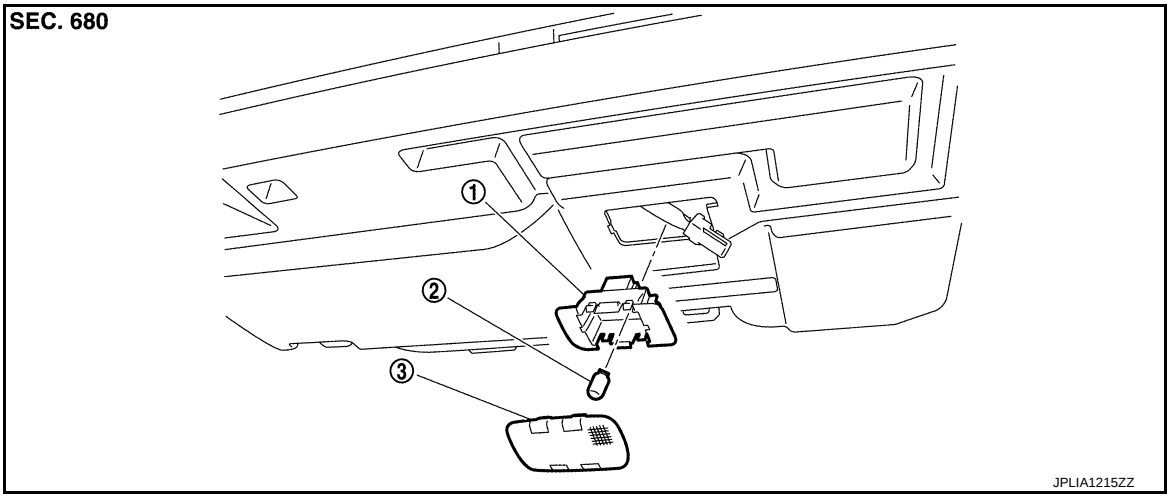
FOOT LAMP BULB (DRIVER SIDE)

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

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000003824862



1. Foot lamp case (passenger side)
2. Bulb
3. Lens

PASSENGER SIDE : Removal and Installation

INFOID:0000000003949874

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the foot lamp and the instrument lower cover RH. Remove the foot lamp.
2. Disconnect the foot lamp connector.

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE : Replacement

INFOID:0000000003824863

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 it turns 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, always replace it with new one.**

FOOT LAMP BULB (PASSENGER SIDE)

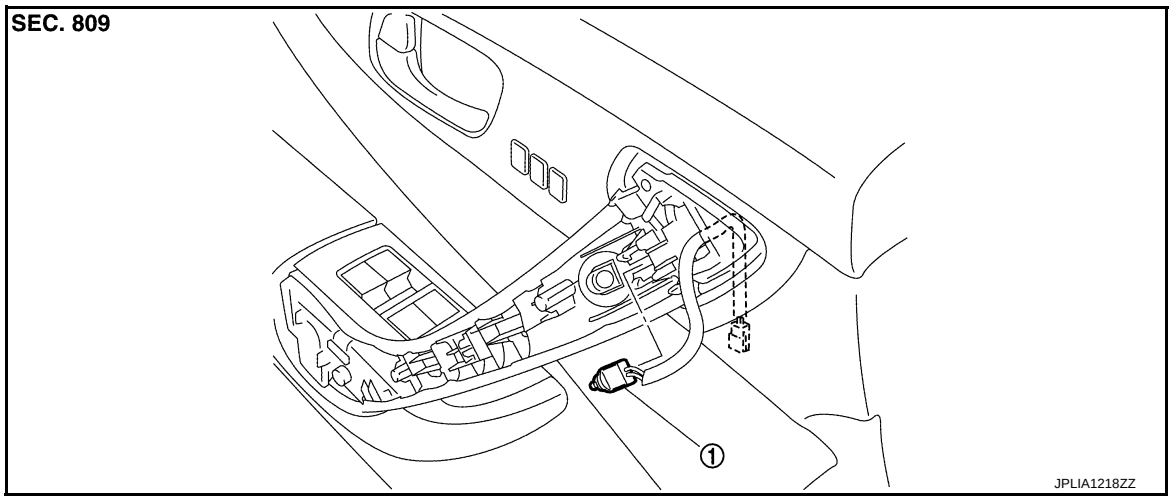
1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

MOOD LAMP

FRONT DOOR ARMREST

FRONT DOOR ARMREST : Exploded View

INFOID:0000000003949964



1. Mood lamp (front door armrest)

FRONT DOOR ARMREST : Replacement

INFOID:0000000003949965

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

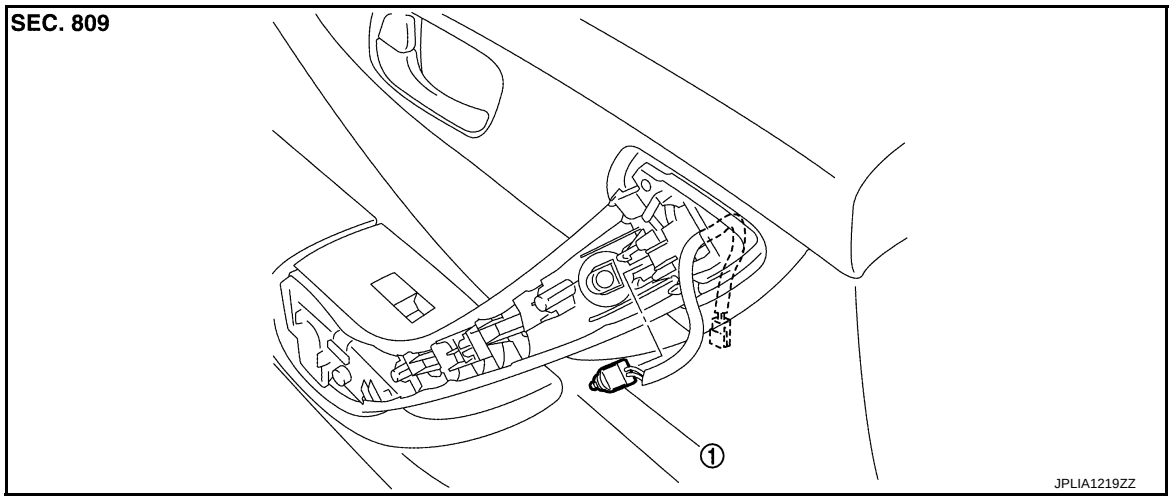
MOOD LAMP (FRONT DOOR ARMREST)

1. Remove the front door finisher. Refer to INT-11, "Exploded View".
2. Remove the front door armrest finisher. Refer to INT-11, "Exploded View".
3. Remove the mood lamp (front door armrest) from the front door finisher.

REAR DOOR ARMREST

REAR DOOR ARMREST : Exploded View

INFOID:0000000003949966



1. Mood lamp (rear door armrest)

REAR DOOR ARMREST : Replacement

INFOID:0000000003949967

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

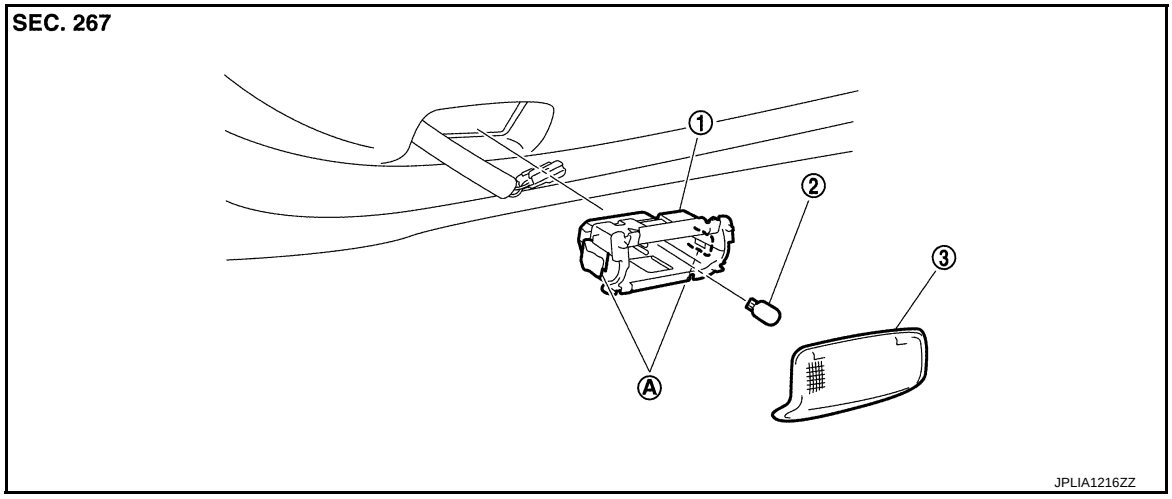
MOOD LAMP (REAR DOOR ARMREST)

1. Remove the rear door finisher. Refer to INT-14, "Exploded View".
2. Remove the rear door armrest finisher. Refer to INT-14, "Exploded View".
3. Remove the mood lamp (rear door armrest) from the rear door finisher.

STEP LAMP

Exploded View

INFOID:0000000003824864



1. Step lamp case
2. Bulb
3. Lens

A Metal clip

Removal and Installation

INFOID:0000000003824865

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the step lamp and the door trim. Remove the step lamp.
2. Disconnect the step lamp connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:0000000003824866

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 it turns 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, always replace it with new one.**

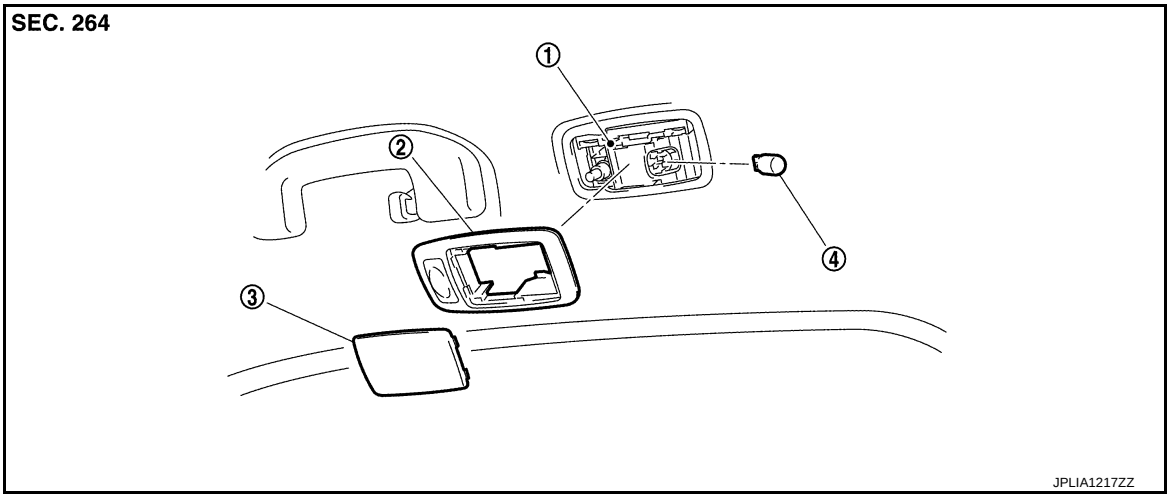
STEP LAMP BULB

1. Remove the step lamp. Refer to INL-178, "Exploded View".
2. Remove the lens.
3. Remove the bulb.

PERSONAL LAMP

Exploded View

INFOID:0000000003824867



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

NOTE:
Replace the personal lamp case as a set (right and left). After removing the headlining assembly, remove the personal lamp case. Refer to INT-23, "Exploded View".

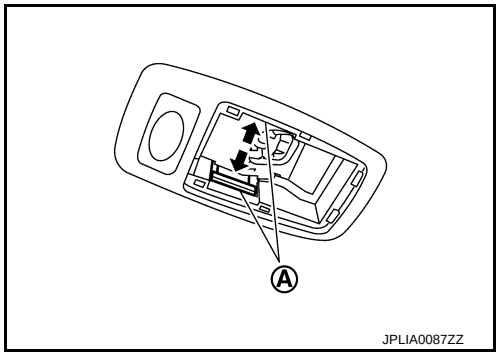
Removal and Installation

INFOID:0000000003824868

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Remove the headlining assembly. Refer to INT-23, "Exploded View".
2. Insert any appropriate tool into the gap between the lens. Remove the lens.
3. Press both side pawls (A) in the direction of the arrow (⬅). Remove the personal lamp finisher.
4. Remove the personal lamp case from the headlining assembly.



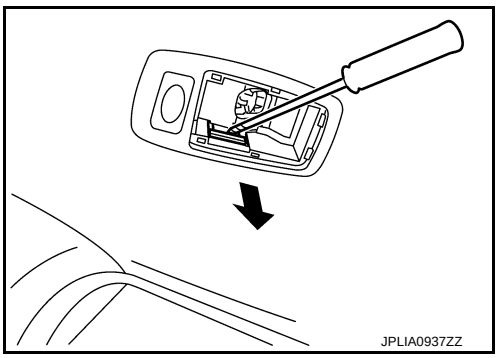
NOTE:
Replace the personal lamp case as a set (right and left).

INSTALLATION

Install in the reverse order of removal.

NOTE:
The following item is an easier way to install the personal lamp finisher.

- Press the personal lamp finisher to the headlining. Pull the personal lamp case pawl in the direction of the arrow (⬅) with any appropriate tool.



Replacement

INFOID:0000000003824869

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 it turns 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, always replace it with new one.**

PERSONAL LAMP BULB

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

PUDDLE LAMP

Exploded View

INFOID:0000000003824870

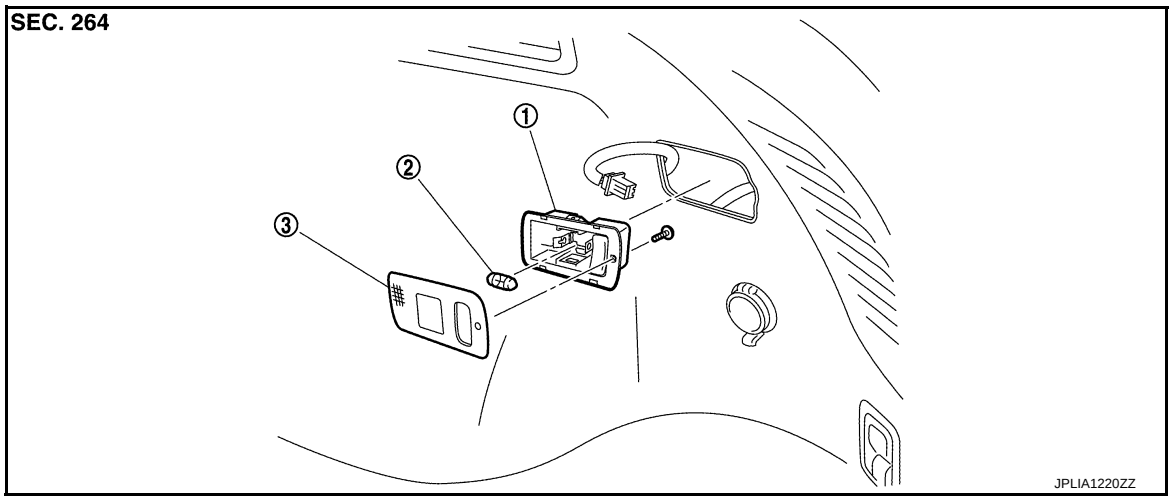
Puddle lamp is integrated into the door mirror assembly.
- With ADP. Refer to MIR-69, "DOOR MIRROR ASSEMBLY : Exploded View".
- Without ADP. Refer to MIR-91, "DOOR MIRROR ASSEMBLY : Exploded View".

LUGGAGE ROOM LAMP

LUGGAGE SIDE

LUGGAGE SIDE : Exploded View

INFOID:0000000003824871



1. Luggage room lamp (luggage side) housing
2. Bulb
3. Lens

LUGGAGE SIDE : Removal and Installation

INFOID:0000000003824872

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the luggage room lamp (luggage side) and luggage side finisher lower. And then remove the luggage room lamp (luggage side).
2. Disconnect the luggage room lamp (luggage side) connector.

INSTALLATION

Install in the reverse order of removal.

LUGGAGE SIDE : Replacement

INFOID:0000000003824873

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 it turns 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, always replace it with new one.**

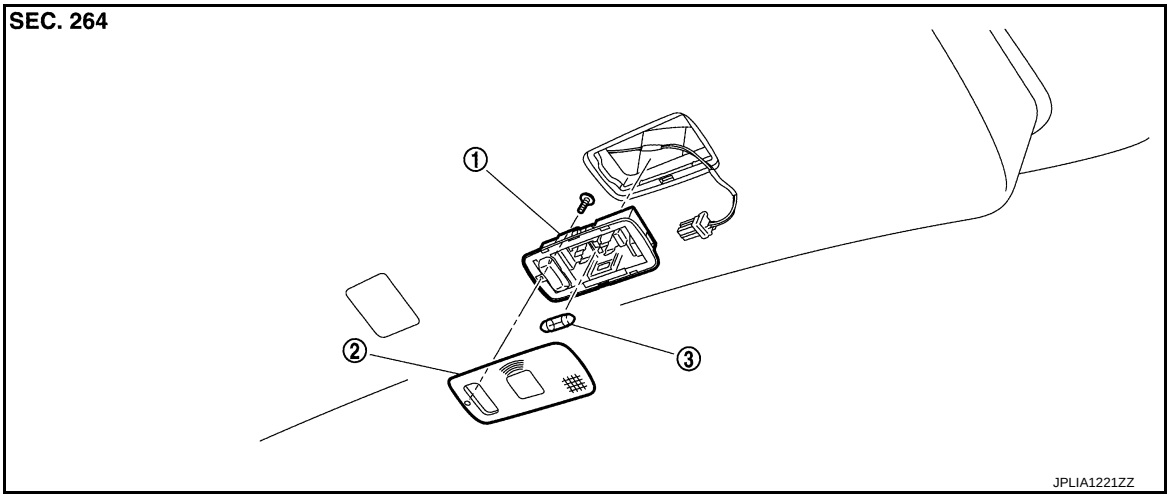
LUGGAGE ROOM LAMP (LUGGAGE SIDE) BULB

1. Remove the luggage room lamp (luggage side). Refer to INL-182, "LUGGAGE SIDE : Exploded View".
2. Remove the screw. And then remove the lens.
3. Remove the bulb.

BACK DOOR SIDE

BACK DOOR SIDE : Exploded View

INFOID:0000000003824874



1. Luggage room lamp (back door side) assembly
2. Lens
3. Bulb

BACK DOOR SIDE : Removal and Installation

INFOID:0000000003824875

CAUTION:
Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the luggage room lamp (back door side) assembly and back door finisher inner. Remove the luggage room lamp (back door side) assembly.
2. Disconnect the luggage room lamp (back door side) connector.

INSTALLATION

Install in the reverse order of removal.

BACK DOOR SIDE : Replacement

INFOID:0000000003824876

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 it turns 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, always replace it with new one.**

LUGGAGE ROOM LAMP BULB

1. Remove the luggage room lamp (back door side). Refer to INL-183, "BACK DOOR SIDE : Exploded View".
2. Remove the screw. And then remove the lens.
3. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000003824877

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
Cigarette lighter illumination	Wedge	1.4
Glove box lamp	Wedge	1.4
Foot lamp	Wedge	1.4
Mood lamp (door armrest)	LED	—
Step lamp	Wedge	8
Personal lamp	Wedge	8
Luggage room lamp	—	8