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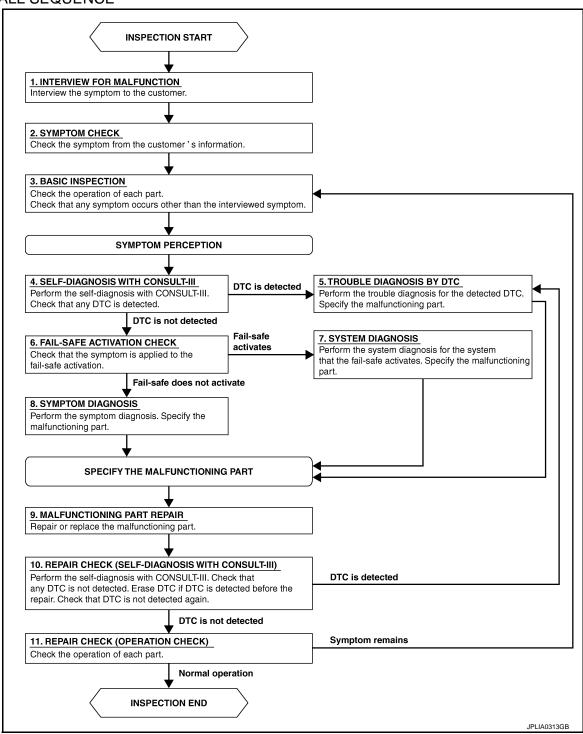
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

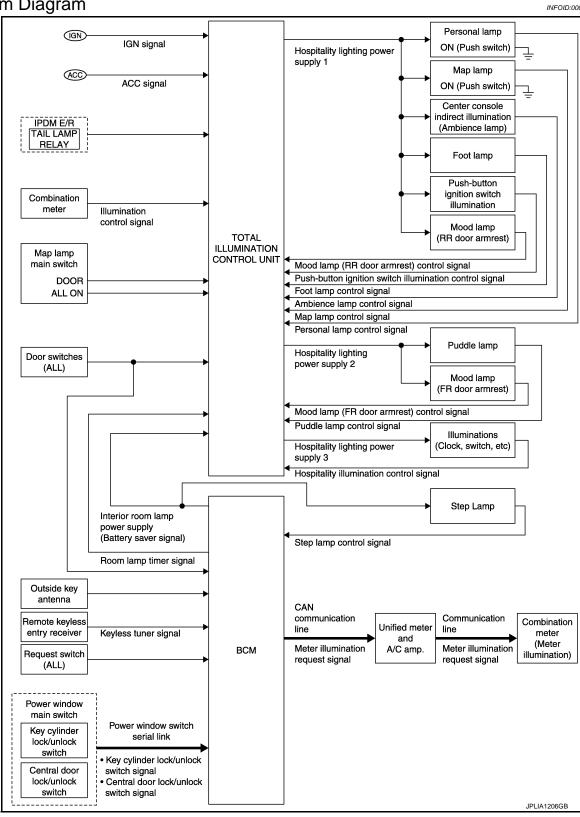
DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >
2.SYMPTOM CHECK Check the symptom from the customer's information.
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.
onesk the operation of each part. Onesk 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.
100 10 101
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)
11.REPAIR CHECK (OPERATION CHECK)
11.REPAIR CHECK (OPERATION CHECK) Check the operation of each part.

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram INFOID:0000000003824808



System Description

INFOID:0000000003824809

OUTLINE

< SYSTEM DESCRIPTION > Interior room lamps and illuminations are controlled by each function of the total illumination control unit and BCM. Α **Total Illumination Control Unit** Function В · 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) D Foot lamps Center console indirect illumination • Each illumination (Clock, switches, etc.) Е **BCM Function** Interior room lamp timer function F Welcome light function (Welcome light function is controlled by Intelligent Key system. Refer to <u>DLK-33</u>, "WELCOME LIGHT FUNCTION: System Description".) Step lamp control function Lamp control Step lamp Н 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. K INL M Ν

INL-7 Revision: 2009 March 2009 FX35/FX50 Р

< SYSTEM DESCRIPTION >

< SYSTEM DESCRIPTION > Hospitality lighting functioning table										
Light source	Push-button ignition switch illumination	or Map lamp	Pers	Puddle lamp	Mood lamps (Door armrest)	Foot lamp	Step lamp	Center console indirect illumination	Each illumination (Clock, switches, etc.)	Meter illumination
Ë	Push- switc	A close door side lamp	An open door side lamp	<u> </u>	M OD	ш	o)	Cer	Each (Clock,	Mete
Scene 1 Door is unlocked (Interior room lamp timer function) Driver approach to the vehicle (Welcome light function)	Heart beat		im 0%)	ON (100%)	(100%)	OFF	OFF	OFF		
Scene 2 Any door is opened	(Pulse)	Dim (30%)	1 sec. delay ON (90%)			ON	ON			
Scene 3 All doors are closed			im 0%)			(80%)			2.5 sec. delay ON (100%)	Meter panel illuminates
Scene 4 Ignition switch ACC or ON					ON (100%)					Combina- tion meter activates
Scene 5 Engine start	Steady	0	OFF			Dim (10%)	OFF	ON (10%)	OFF	Engine start excitement function
Scene 6 Engine running		OFF							OFF	
Scene 7 Tail lamps ON (Linked to illumina- tion control switch)	Steady					Dim (10% MAX)		OFF	ON (100% MAX)	Dim
Scene 8 Map lamp main switch ALL ON			ON 10%)	_	_	_	_	ON (100%)	_	_
Scene 6 Ignition switch OFF			im 0%)				OFF			OFF (Gradual dimming)
Scene 7 Any door is opened	Steady	Dim (30%)	1 sec. delay ON (90%)	ON (100%)	ON (100%)	ON (80%)	ON		OFF	OFF
Scene 8 All doors are closed			im 0%)				OFF	OFF	2.5 sec. delay ON (100%)	Meter panel illuminates
Scene 9 • Door is locked • Battery saver activates	OFF	OFF	OFF	OFF	OFF	OFF	OFF		OFF	OFF

NOTE:

Revision: 2009 March INL-8 2009 FX35/FX50

< SYSTEM DESCRIPTION >

- 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)".

Α

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.

В

Timer ON

- · Door is unlocked.
- Welcome light function operating condition is satisfied.

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- 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.

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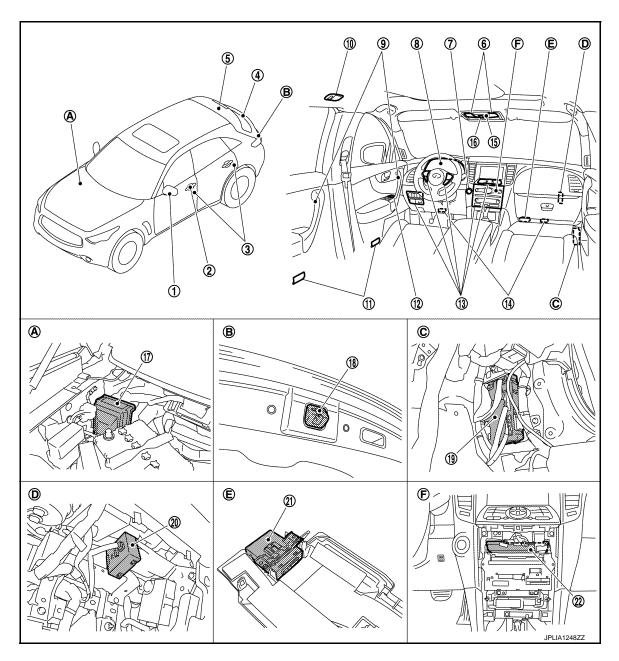
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INL-9 Revision: 2009 March 2009 FX35/FX50

Component Parts Location

INFOID:0000000003824810



1. Puddle lamp

- Request switch
 - Key cylinder lock/unlock switch
- Door switch

Luggage room lamp (Back door side)

Push-button ignition switch illumi- 8.

- Luggage room lamp (Luggage side)
 - Combination meter 9.
- 6. Map lamp

- 10. Personal lamp
- 11. Step lamp
- 12. Door lock/unlock switch

Mood lamp

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

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- er er
- 20. Remote keyless entry receiv- 21. Total illumination control unit
- 22. Unified meter and A/C amp.
 - Engine room dash panel (RH) B. Back door lock assembly
 - E. Instrument lower cover LH
- C. Dash side lower (passenger side)

D. Over the glove box

er LH F. Behind the cluster lid C

< SYSTEM DESCRIPTION >

Component Description

INFOID:0000000003824811

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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 switchKey cylinder lock/unlock switchDoor 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.

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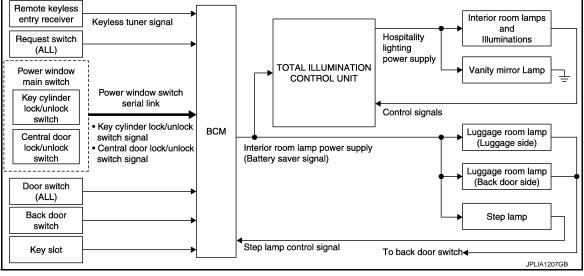
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INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram

INFOID:0000000003824812 and Illuminations



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:

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

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

Component Parts Location

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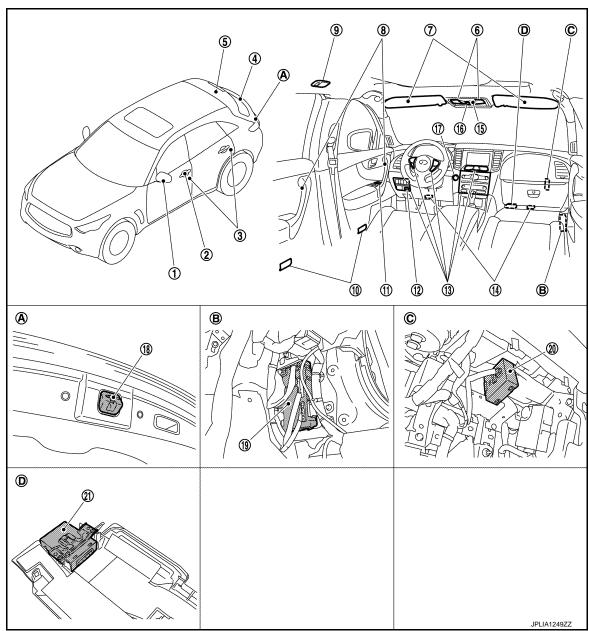
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- Puddle lamp
- Luggage room lamp (Back door
- Vanity mirror lamp
- 10. Step lamp
- 13. Illuminations
- 16. Map lamp main switch
- 19. BCM

- · Request switch
 - Key cylinder lock/unlock switch
- Luggage room lamp (Luggage side)
- Mood lamp
- Door lock/unlock switch
- 14. Foot lamp
- Push-button ignition switch illumination
- 20. Remote keyless entry receiv- 21. Total illumination control unit

- Door switch
- Map lamp
- Personal lamp
- 12. Key slot
- 15. Center console indirect illumination
- 18. Back door switch

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INL-13 Revision: 2009 March 2009 FX35/FX50

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

- A. Back door lock assembly
- B. Dash side lower (passenger C. Over the glove box side)

D. Instrument lower cover LH

Component Description

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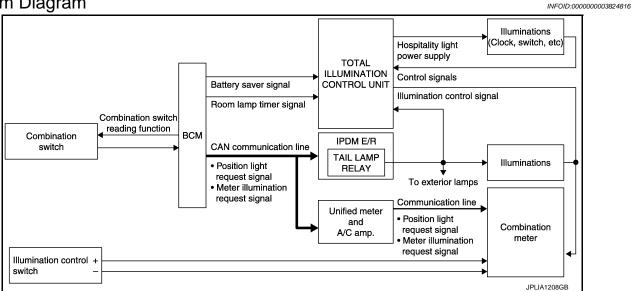
Part	Description
Total illumination control unit	Cuts the hospitality lighting power supply according to interior room lamp power supply (battery saver signal).
BCM	Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply (battery saver 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 DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



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.

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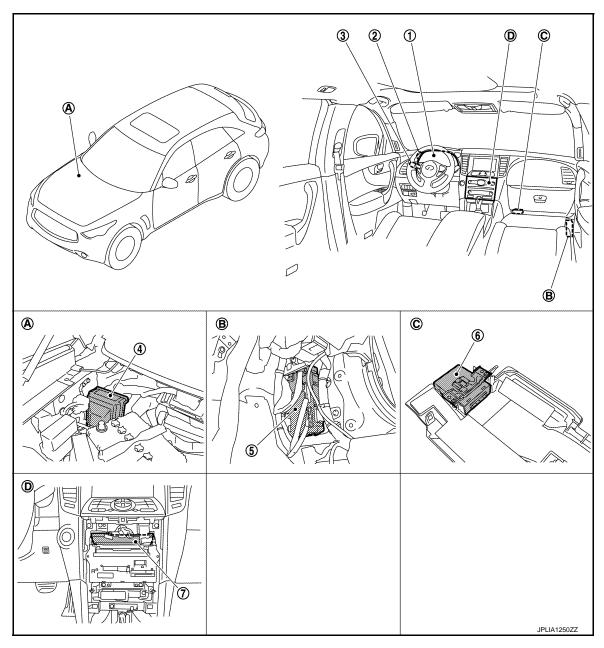
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INL-15 Revision: 2009 March 2009 FX35/FX50

Component Parts Location

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

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Description

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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".

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DIAGNOSIS SYSTEM (TOTAL ILLUMINATION CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (TOTAL ILLUMINATION CONTROL UNIT)

CONSULT-III Function (TOTAL ILLUM C/U)

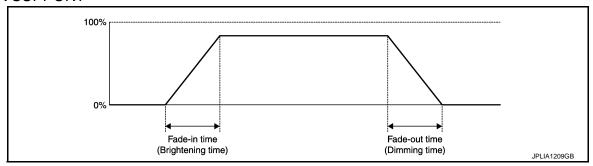
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APPLICATION ITEM

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.		
FOOT LAWIF FADE-IIV/OUT	FADE-OUT	0 - 3.0 sec. (1.0 sec.*)	Sets rade-in/rade-out time of the root famps.		
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 per-		
WAF &F ENGINE LAWF 1 ADE-IN/OUT	FADE-OUT	0 - 3.0 sec. (1.0 sec.*)	sonal lamps.		
PUDDLE LAMP FADE-IN/OUT	FADE-IN	0 - 3.0 sec. (0 sec.*)	Sets fade-in/fade-out time of the puddle lamps.		
FODDLE LAWIF FADE-IIV/OOT	FADE-OUT	0 - 3.0 sec. (3.0 sec.*)	Sets rade-infrade-out time of the puddle ramps.		
MOOD LAMP FADE-IN/OUT	FADE-IN	0 - 3.0 sec. (1.0 sec.*)	Sate fade in/fade out time of the mood lamps		
WOOD LAWF FADE-IN/OUT	FADE-OUT	0 - 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the mood lamps.		
AMBIENCE LAMP FADE-IN/OUT	FADE-IN	0 - 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of the ambience lamp		
AWBILINGE LAWF TABL-IN/001	FADE-OUT	0 - 3.0 sec. (1.0 sec.*)	(center console indirect illumination).		
HSPL ILLUMINATION FADE-IN/OUT	FADE-IN	0 - 3.0 sec. (1.0 sec.*)	Sets fade-in/fade-out time of each illumination (linked		
HOFE ILLUMINATION FADE-IN/OUT	FADE-OUT	0 - 3.0 sec. (1.0 sec.*)	with hospitality lighting).		
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 illumi-		
L/G 3W ILLUMI I ADL-MVOOT	FADE-OUT	0 - 3.0 sec. (1.5 sec.*)	nation.		
E/G SW ILL HEART BEAT FUNCTION	On*		With the engine switch illumination heart beat function		
L/G GW ILL HEART BEAT FUNCTION	Off		Without the engine switch illumination heart beat function		

^{*:} Factory setting

DATA MONITOR

DIAGNOSIS SYSTEM (TOTAL ILLUMINATION CONTROL UNIT)

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< SYSTEM DESCRIPTION >

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-	On	Total illumination control unit turns ON/OFF the engine switch illumination.	
NATION	Off	Total multimation control unit turns on/or i the engine switch multimation.	
FOOT LAMP	On	Total illumination control unit turns ON/OFF the foot lamps.	
TOOT LAWF	Off	Total indimination control unit turns of world the root lamps.	

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DIAGNOSIS SYSTEM (TOTAL ILLUMINATION CONTROL UNIT)

< SYSTEM DESCRIPTION >

Test item	Operation	Description			
MAP LAMP-DR	On	Total illumination control unit turns ON/OFF the map lamp (driver side).			
WAF LAWIF-DK	Off	- Total illumination control unit turns onvorr the map lamp (universide).			
MAP LAMP-AS	On	Total illumination control unit turns ON/OFF the map lamp (passenger side).			
WAP LAWF-AS	Off	- Total illumination control unit turns onvorr the map lamp (passenger side).			
PERSONAL LAMP-RR	On	Total illumination control unit turns ON/OFF the personal lamp (RH).			
PERSONAL LAWIF-RR	Off	Total illumination control unit tums on/orr the personal lamp (km).			
PERSONAL LAMP-RL	On	Total illumination control unit turns ON/OFF the personal lame (LH)			
PERSONAL LAWP-RL	Off	Total illumination control unit turns ON/OFF the personal lamp (LH).			
PUDDLE LAMP	On	Total illumination control unit turns ON/OFF the puddle lamps.			
PUDDLE LAMP	Off	Total illumination control unit turns on/or i the puddle lamps.			
MOOD LAMP	On	Total illumination control unit turns ON/OFF the mood lamp.			
WOOD LAWF	Off	Total illumination control unit turns on/off the mood lamp.			
AMBIENCE LAMP	On	Total illumination control unit turns ON/OFF the ambience lamp (center console indi-			
AIVIDILINGE LAIVIP	Off	rect illumination).			
HSPL ILLUMINATION	On	Total illumination control unit turns ON/OFF each illumination (linked with hospitality			
HOF E ILLUWIINATION	Off	lighting).			

< SYSTEM DESCRIPTION >

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 avetem coloation item	Diagnosis mode		
System	Sub system selection item	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 systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	ВСМ	×		
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:

FREEZE FRAME DATA (FFD)

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

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^{*:} This item is displayed, but is not used.

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description			
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected			
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected			
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")		
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)		
	LOCK>ACC		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	Power position status of the moment a particular DTC is detected	While turning power supply position from "OFF" to "LOCK"		
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"		
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"		
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode		
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode		
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)		
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)		
	ACC		Power supply position is "ACC" (Ignition switch ACC)		
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)		
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)		
	CRANKING		Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 			

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.		
	MODE 3*	15 sec.	Interior room lamp ON time after door are unlocked.	
	MODE 4	30 sec.		

< SYSTEM DESCRIPTION >

Service item	Setting item	Setting
	MODE 1	
	MODE 2	
ROOM LAMP ON TIME SET	MODE 3	NOTE: The item is indicated, but not used.
	MODE 4	
	MODE 5*	
	MODE 1	
	MODE 2	
ROOM LAMP OFF TIME SET	MODE 3	NOTE: The item is indicated, but not used.
	MODE 4	
	MODE 5*	
	MODE 1*	Interior room lamp timer activates by synchronizing all doors.
R LAMP TIMER LOGIC SET	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:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
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

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< SYSTEM DESCRIPTION >

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 in terior 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.			
OTEL LAWI TEOT	Off	Stops the step lamp control signal to turn step lamp OFF.			
LUGGAGE LAMP TEST	On	NOTE:			
LOGGAGE LAWIF TEST	Off	The item is indicated, but not used.			

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 i	With the interior room lamp battery saver function	
ROOM LAWF BAT SAV SET	Off	Without th	ne interior room lamp battery saver function	
ROOM LAMP TIMER SET	MODE 1*	30 min.	Sets the interior room lamp battery saver timer operating	
ROOM LAWF TIMER SET	MODE 2	60 min.	time.	
BATTERY SAVER SET	On*	With the exterior lamp battery saver function		
DATTENT SAVEN SET	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:
REQ SW-RL [On/Off]	The item is indicated, but not monitored.
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

< SYSTEM DESCRIPTION >

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 On		Cuts the interior room lamp power supply (battery saver signal).	
		Provides the interior room lamp power supply (battery saver signal).	

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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			
(+)		(+)		(-)	Condition	Voltage
Total illumination control unit		Ignition	(Approx.)			
Connector	Terminal	sv	switch			
	21	Ground	OFF			
M129	5		ACC	Battery voltage		
	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			Continuity
Connector	Terminal	Ground	Continuity
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.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

(+)	(-)	Voltage
В	BCM		(Approx.)
Connector	Terminal	Ground	
M118	1	Giodila	Battery voltage
M119	11		Battery Voltage

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.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description INFOID.000000003824824

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

(P)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	
В	CM	BATTERY		(Approx.)	
Connector	Terminal	Ground	SAVER		
M119 4	Oround	Off	0 V		
101119	7		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.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

В	СМ	Each interior room lamp and total illumination control unit			Continu-
Connec- tor	Terminal	Connector Ter		Terminal	ity
		Total illumination control unit	M129	6	
		Step lamp (Driver side)	D12	1	
		Step lamp (Passenger side)	D42	1	
M119	4	Step lamp (Rear LH)	D59	1	Existed
		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

- 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.

ВСМ			Continuity	
Connector	Terminal	Ground	Continuity	
M119	4		Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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BATTERY SAVER SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

BATTERY SAVER SIGNAL CIRCUIT

Description INFOID:000000003941706

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

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

	Terminals	Test item			
(-	+)	(-)			
Total illumination control unit			BATTERY	(Approx.)	
Connector	Terminal	Ground	SAVER		
M129	6	Giodila	Off	0 V	
WITZS			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".

$2.\mathsf{CHECK}$ BATTERY SAVER SIGNAL BY CONSULT-III

(P)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

- Turn ignition switch OFF.
- 5. Disconnect the BCM (M119) connector.
- 6. Turn ignition switch ON.
- 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.

< DTC/CIRCUIT DIAGNOSIS >

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 1

Description INFOID:000000003940102

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

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 <u>INL-26</u>, "TOTAL ILLUMI-NATION CONTROL UNIT: Diagnosis Procedure".
- Battery saver signal circuit: Refer to <u>INL-30, "Description"</u>.

${f 1}.$ CHECK HOSPITALITY LIGHTING POWER SUPPLY 1 OUTPUT

CONSULT-III ACTIVE TEST

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

	Terminals	Test item		
(+)	(–)	iest item	Voltage
Total illumination control unit		BATTERY	(Approx.)	
Connector	Terminal	Ground	SAVER	
M129	35	Oround	Off	0 V
101123	33		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

- 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.

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< DTC/CIRCUIT DIAGNOSIS >

Total illumination con- trol unit		Each interior	Continuity		
Connector	Terminal	Connector		Terminal	
		Roof module	R2	12	
		Foot lamp (driver side)	M30	1	
		Foot lamp (passenger side)	M130	1	
M129 35	35	Mood lamp (rear door armrest LH)	D58	1	Existed
		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 interi	Continuity		
Connector	Terminal	Connecto	Terminal	Continuity	
		Map lamp	R15	10	
R11	12	iviap iamp K15	KIS	5	
		Vanity mirror lamp (LH)	R12	2	Existed
		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

- Turn ignition switch OFF.
- 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.

< DTC/CIRCUIT DIAGNOSIS >

Total illuminati	on control unit			•
Connector	Terminal	Ground	Continuity	
M129	35	-	Not existed	-
Does continuity	exist?			
_NO >> GO	TO 5.	ses or connecto		
CHECK RO	OF MODULE C	IRCUIT FOR S	SHORT	
	the following of	onnectors.		
 Map lamp Vanity mirro 	or lamp (LH)			
 Vanity mirro 	or lamp (RH)			
Personal la Check cont		roof module ha	arness connecto	r and ground
i. Oncok com	many between	Tool module ne		Tana ground.
Roof n	nodule		Continuity	•
Connector	Terminal	Ground	Continuity	
R11	12	-	Not existed	
Does continuity	exist?			•
		ses or connecto		
NO >> Rep	piace the total i	llumination con	troi unit.	

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< DTC/CIRCUIT DIAGNOSIS >

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 <u>INL-26</u>, "TOTAL ILLUMI-NATION CONTROL UNIT: Diagnosis Procedure".
- Battery saver signal circuit: Refer to <u>INL-30, "Description"</u>.
- 1. CHECK HOSPITALITY LIGHTING POWER SUPPLY 2 OUTPUT

©CONSULT-III ACTIVE TEST

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

	Terminals	Test item			
(-	+)	(-)	1631 116111	Voltage	
Total illumination control unit			BATTERY	(Approx.)	
Connector	Terminal	Ground	SAVER		
M129	34	Oround	Off	0 V	
IVI 129	34		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.

< DTC/CIRCUIT DIAGNOSIS >

Total illumination con- trol unit		Each interior	Continuity		
Connector	Terminal	Connector	Terminal		
M129 34	Door mirror (driver side)	D3	2		
	3/1	Door mirror (passenger side)	D33	2	Existed
	34	Mood lamp (front door armrest LH)	D16	1	LAISteu
		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 illuminat	ion control unit		Continuity	
Connector Terminal		Ground	Continuity	
M129	34		Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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< DTC/CIRCUIT DIAGNOSIS >

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 3

Description INFOID:000000003941956

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 <u>INL-26, "TOTAL ILLUMI-NATION CONTROL UNIT: Diagnosis Procedure"</u>.
- Battery saver signal circuit: Refer to INL-30, "Description".

${f 1}$.CHECK HOSPITALITY LIGHTING POWER SUPPLY 3 OUTPUT

(P)CONSULT-III ACTIVE TEST

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

	Terminals	Test item				
(-	+)	(-)	1631 116111	Voltage		
Total illumination control unit			BATTERY	(Approx.)		
Connector	Terminal	Ground	SAVER			
M129	33		Off	0 V		
101129	33		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

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

HOSPITALITY LIGHTING POWER SUPPLY CIRCUIT 3

< DTC/CIRCUIT DIAGNOSIS >

Total illumination control unit		Illumi	nations		Continuity	
Connector	Terminal	Connecto			·	
		Meter control switch	M54	4		
		Multifunction switch	M72	4		
		Climate controlled seat switch (driver side)	M177	7		
M129 33		Climate controlled seat switch (passenger side)	M178	7		
	LDW switch	M29	5			
		Snow mode switch	M176	5		
	33	Door mirror remote control switch	M20	16	Existed	
		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 illuminat	ion control unit		Continuity
Connector	Terminal	Ground	Continuity
M129	33		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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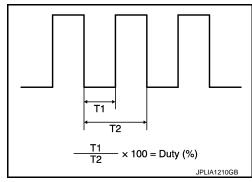
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MAP LAMP CIRCUIT

Description INFOID:000000003890833

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
- ${f 1}$.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	ON
	Off	(driver side)	OFF
MAP LAMP-AS	On	Map lamp	ON
IVIAF LAWIF-AS	Off	(passenger side)	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.
- Switch map lamp main switch DOOR.
- 3. Select "MAP LAMP-DR" or "MAP LAMP-AS" of TOTAL ILLUM C/U active test item.
- While operating the test items, check voltage between total illumination control unit harness connector and ground.

Driver side

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

MAP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Passenger side

	ation control nit		Test item	Voltage
Connector	Terminal	Ground	MAP LAMP- AS	(Approx.)
M129 12			On	0 V
101129	12		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			Мар		
Conr	nector	Terminal	Connec- tor	Terminal	Continuity
Driver side	M129	18	R15	7	Existed
Passen- ger side	IVITZ9	12	1013	9	LAISIGU

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				Continuity
Connector Termina		Terminal		Continuity
Driver side	- M129	18	Ground	Not existed
Passen- ger side		12		

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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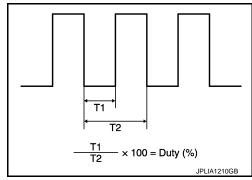
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Revision: 2009 March INL-39 2009 FX35/FX50

PERSONAL LAMP CIRCUIT

Description INFOID:000000003943172

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	ON
	Off	(RH)	OFF
PERSONAL	On	Personal lamp	ON
LAMP-RL	Off	(LH)	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

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

Personal lamp RH

Total illumination control unit			Test item	Voltage
Connector	Terminal	Ground	PERSONAL LAMP-RR	(Approx.)
M129	14		On	0 V
101129	14		Off	12 V

PERSONAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Personal	lamp LH				
Total illumination control unit			Test item Voltage		
Connector	Terminal	Ground	PERSONAL LAMP-RL	(Approx.)	
M129	13		On	0 V	
W129	13	13		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.

${f 2.}$ 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.

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			Person		
Conr	nector	Terminal	Connec- tor	Terminal	Continuity
RH	M129	14	R14	3	Existed
LH	IVITZS	13	1114	1	LAISIEU

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				Continuity
Connector		Terminal	Ground	Continuity
RH	M129	14	Glound	Not existed
LH	IVITZ9	13		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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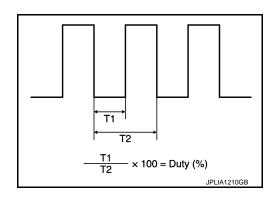
CENTER CONSOLE INDIRECT ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

CENTER CONSOLE INDIRECT ILLUMINATION CIRCUIT

Description INFOID:000000003943186

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



Component Function Check

INFOID:0000000003943187

1. CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL FUNCTION

(E)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	On	Center console in-	ON
LAMP	Off	direct illumination	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

- 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			Test item	Voltage
Connector	Terminal	Ground	AMBIENCE LAMP	(Approx.)
M129	20		On	0 V
101129	20		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.

CENTER CONSOLE INDIRECT ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK CENTER CONSOLE INDIRECT ILLUMINATION POWER SUPPLY

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

Мар	lamp		Voltage
Connector	Terminal	Ground	(Approx.)
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".

f 4.CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL CIRCUIT FOR OPEN

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

Total illumination control unit		Map I	amp	Continuity
Terr	Terminal		Terminal	Continuity
M129	20	R15	6	Existed

Does continuity exist?

YES >> Replace the map lamp assembly.

NO >> Repair the harnesses or connectors.

${f 5.}$ CHECK CENTER CONSOLE INDIRECT ILLUMINATION CONTROL CIRCUIT FOR SHORT

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

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

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit. INL

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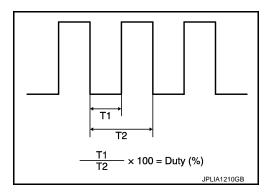
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INL-43 Revision: 2009 March 2009 FX35/FX50

FOOT LAMP CIRCUIT

Description INFOID:000000003943189

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
1 OO1 LAWI	Off	1 oot lamps	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

(P)CONSULT-III ACTIVE TEST

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

Driver side

Total illumination control unit			Test item	Voltage (Approx.)
Connector	Terminal	Ground	FOOT LAMP	(Арргох.)
M129	36		On	0 V
101129	30		Off	12 V

Passenger side

Total illumination control unit			Test item	Voltage (Approx.)
Connector	Terminal	Ground	FOOT LAMP	(дрргох.)
M129	16	16	On	0 V
101129	10		Off	12 V

FOOT LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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

	Foot lam	р		Voltage
Con	nector	Terminal		(Approx.)
Driver side	M30	1	Ground	12 V
Passen- ger side	M130	1		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".

f 4.CHECK FOOT LAMP CONTROL CIRCUIT FOR OPEN

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

Total ille	umination co	ntrol unit	Foot	lamp	Continuity
Conr	nector	Terminal	Connector	Terminal	Continuity
Driver side	M129	36	M30	2	Existed
Passen- ger side	IVITZ9	16	M130	2	LAISIEU

Does continuity exist?

>> Replace the foot lamp. YES

NO >> Repair the harnesses or connectors.

${f 5}$.CHECK FOOT LAMP CONTROL CIRCUIT FOR SHORT

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

Total illumination control unit			Continuity	
Connector Terminal			Continuity	
Driver side	M129	36	36 Ground	Not existed
Passen- ger side	IVITZ9	16		INOL EXISTED

Does continuity exist?

INL-45 Revision: 2009 March 2009 FX35/FX50

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FOOT LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

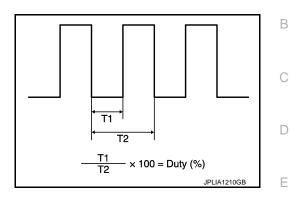
PUDDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUDDLE LAMP CIRCUIT

Description INFOID:0000000003943192

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



INFOID:0000000003943193

INFOID:0000000003943194

Component Function Check

1. CHECK PUDDLE LAMP CONTROL FUNCTION

©CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- Select "PUDDLE LAMP" of TOTAL ILLUM C/U active test item.
- While operating the test items, check puddle lamps operation.

Test	item	Operation	
PUDDLE LAMP	On	Puddle lamps	ON
	Off	Puddie lamps	OFF

Are the puddle lamps turned ON/OFF?

YES >> Puddle lamp circuit is normal.

NO >> Refer to INL-47, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK PUDDLE LAMP CONTROL OUTPUT

(P)CONSULT-III ACTIVE TEST

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

Driver side

Total illumination control unit			Test item	Voltage
Connector	Terminal	Ground	PUDDLE LAMP	(Approx.)
M129	40		On	0 V
101129 40		Off	12 V	

Passenger	side
-----------	------

Total illumination control unit			Test item	Voltage
Connector	Terminal	Ground	PUDDLE LAMP	(Approx.)
M129	39		On	0 V
101129	39		Off	12 V

Is the measurement value normal?

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INL-47 Revision: 2009 March 2009 FX35/FX50

PUDDLE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

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.
- Check continuity between the total illumination control unit harness connector and door mirror harness connector.

Total ille	Total illumination control unit		Door n	Continuity	
Coni	nector	Terminal Connector		Terminal	Continuity
Driver side	M129	40	D3	14	Existed
Passen- ger side	IVITZ9	39	D33	14	LAISIGU

Does continuity exist?

YES >> Replace the puddle lamp.

NO >> Repair the harnesses or connectors.

${f 5.}$ 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				Continuity
Connector Terminal			Continuity	
Driver side	M129	40	Ground	Not existed
Passen- ger side	W129	39		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

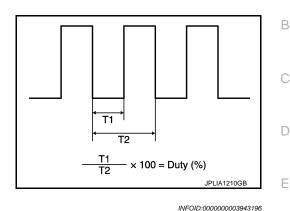
MOOD LAMP (FRONT DOOR ARMREST) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

MOOD LAMP (FRONT DOOR ARMREST) CIRCUIT

Description INFOID:0000000003943195

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



Component Function Check

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

©CONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- Select "MOOD LAMP" of TOTAL ILLUM C/U active test item.
- While operating the test items, check mood lamp (front door armrest) operation.

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

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

(P)CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- 2. Select "MOOD LAMP" of TOTAL ILLUM C/U active test item.
- 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			Test item	Voltage (Approx.)
Connector	Terminal	Ground	MOOD LAMP	(дрргох.)
M129	10		On	0 V
101129			Off	12 V

Mood lamp (front door armrest LH)

Total illumination control unit			Test item	Voltage (Approx.)
Connector	Terminal	Ground	MOOD LAMP	(Арргох.)
M129	30		On	0 V
101129 30			Off	12 V

Is the measurement value normal?

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

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MOOD LAMP (FRONT DOOR ARMREST) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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.

${f 3.}$ 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)				Voltage
Connector Terminal		Ground	(Approx.)	
RH	D46	1	Ground	12 V
LH	D16	1		12 V

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 illu	Total illumination control unit		Mood lamp (front door armrest)		Continuity
Conr	nector	Terminal	Connector Terminal		
RH	M129	10	D46	2	Existed
LH	101129	30	D16	2	LAISIEU

Does continuity exist?

YES >> Replace the mood lamp (front door armrest).

NO >> Repair the harnesses or connectors.

$5. {\sf check}$ 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				Continuity
Connector Term		Terminal	Ground	Continuity
RH	M129	10	Glound	Not existed
LH	101129	30		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

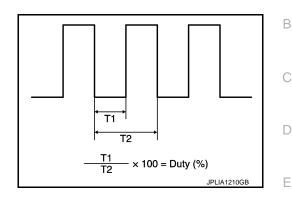
PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description INFOID:0000000003959112

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



INFOID:0000000003824836

INFOID:0000000003959113

Component Function Check

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 IL-	On	Push-button ignition	ON
LUMINATION	Off	switch illumination	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

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION CONTROL OUTPUT

(P)CONSULT-III ACTIVE TEST

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

Driver side

	Total illumination control unit		Test item	Voltago
Connector	Terminal	Ground	ENGINE SWITCH ILLU- MINATION	Voltage (Approx.)
M129	19		On	0 V
101129	19		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.

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PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Fixed ON>>GO TO 5.

${f 3.}$ 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		Voltage
Connector	Terminal Ground		(Approx.)
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		Continuity
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			Continuity	
Connector Terminal		Ground	Continuity	
M129	19		Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

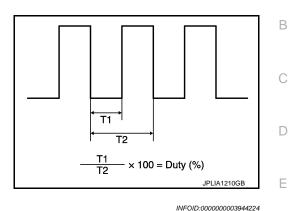
MOOD LAMP (REAR DOOR ARMREST) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

MOOD LAMP (REAR DOOR ARMREST) CIRCUIT

Description INFOID:0000000003944223

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



Component Function Check

 ${\bf 1.} {\sf CHECK\ MOOD\ LAMP\ (REAR\ DOOR\ ARMREST)\ CONTROL\ FUNCTION}$

©CONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- 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	MOOD LAMB	Mood lamp (rear door armrest)	ON
MOOD LAMP	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

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

©CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- 2. Select "MOOD LAMP" of TOTAL ILLUM C/U active test item.
- 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		Test item	Voltage (Approx.)
Connector	Terminal	Ground	MOOD LAMP	(дрргох.)
M129	M129 11		On	0 V
101129 11		Off	12 V	

Mood lamp (rear door armrest LH)

	Total illumination control unit		Test item	Voltage (Approx.)
Connector	Terminal	Ground	MOOD LAMP	(дрргох.)
M129	31		On	0 V
W129 31		Off	12 V	

Is the measurement value normal?

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

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MOOD LAMP (REAR DOOR ARMREST) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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 do	or armrest)		Voltage
Co	nnector	Terminal	Ground (Approx.)	(Approx.)
RH	D78	1	Ground	12 V
LH	D58	1		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 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 illu	umination co	ntrol unit	Mood lamp (rear door armrest)		Continuity
Conr	nector	Terminal	Connector Terminal		
RH	M129	11	D78	2	Existed
LH	101129	31	D58	2	Existed

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 illu	Total illumination control unit			Continuity	
Conr	nector	Terminal	Ground	Continuity	
RH	M120	11	Giodila	Not existed	
LH	M129	31		Not existed	

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

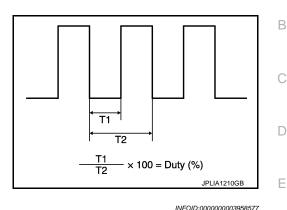
HOSPITALITY ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HOSPITALITY ILLUMINATION CIRCUIT

Description INFOID:0000000003958576

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



Component Function Check

1. CHECK ILLUMINATION CONTROL FUNCTION

©CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- Select "HSPL ILLUMINATION" of TOTAL ILLUM C/U active test item.
- While operating the test items, check the illuminations operation.

Test item		Operation	
HSPL ILLUMINATION	On	Illuminations	ON
HOF E IELOWINATION	Off	illuminations	OFF

Are the illuminations turned ON/OFF?

YES >> Hospitality illumination circuit is normal.

NO >> Refer to INL-55, "Diagnosis Procedure". Diagnosis Procedure

1. CHECK ILLUMINATION CONTROL OUTPUT

(P)CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- Select "HSPL ILLUMINATION" of TOTAL ILLUM C/U active test item.
- While operating the test items, check voltage between total illumination control unit harness connector and ground.

	ation control nit		Test item	Voltage
Connector	Terminal	Ground	HSPL ILLU- MINATION	(Approx.)
M129	17		On	0 V
IVI 129	17		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.

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HOSPITALITY ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

$\overline{3.}$ 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.

IIIu	ıminations			Voltage
Connect	tor	Terminal		(Approx.)
Meter control switch	M54	4		
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	Ground	
Door mirror remote control switch	M20	16		12 V
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.
- Check continuity between the total illumination control unit harness connector and each illumination harness connectors.

HOSPITALITY ILLUMINATION CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Total illuminati	on control unit	Illumii	nations		Continuity
Connector	Terminal	Connector	-	Terminal	Continuity
		Meter control switch	M54	5	
		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	
M129	17	Door mirror remote control switch	M20	15	Existed
		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 illuminat	ion control unit		Continuity
Connector	Terminal	Ground	Continuity
M129	17		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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Revision: 2009 March INL-57 2009 FX35/FX50

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

STEP LAMP CIRCUIT

Description INFOID.000000003824830

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

(P)CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- 2. Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- While operating the test items, check the step lamp operation.

Test item		Operation	
STEP LAMP TEST	On	Step lamps	ON
STEF LAWF TEST	Off	Step lamps	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

(P)CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- Select "STEP LAMP TEST" of BCM (INT LAMP) active test item.
- While operating the test item, check continuity between BCM harness connector and ground.

В	СМ		Test item	
Connector	Terminal	Ground	STEP LAMP TEST	Continuity
M119	7		On	0 V
IVITIS	WITI9 /		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.
- Check voltage between the step lamp harness connector and ground.

STEP LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	Step lamp			Voltage
Con	nector	Terminal		(Approx.)
Driver side	D12	1		
Passenger side	D42	1	Ground	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.
- Check continuity between BCM harness connector and step lamp harness connector.

ВСМ		Step lamp			
Connec- tor	Terminal	Connector		Terminal	Continuity
		Driver side	D12	2	
M119	7	Passenger side	D42	2	Existed
		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.

В	СМ		Continuity
Connector	Terminal	Ground	Continuity
M119	7		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

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TAIL LAMP SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TAIL LAMP SIGNAL CIRCUIT

Description

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

(F)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	
Worldon Rem	Lighting switch	WOTHOR Status	
TAIL LAMP SIGNAL	OFF	Off	
TAIL LAWIP SIGNAL	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

PCONSULT-III ACTIVE TEST

- 1. Turn ignition switch ON.
- Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- While operating the test item, check the voltage between the total illumination control unit and ground.

(+) (-) Total illumination control unit EXTERNAL LAMPS Connector Terminal M129 4 Ground TAIL Battery voltage Off 0 V	Terminals			Test item		
Total illumination control unit EXTERNAL LAMPS (Approx.) Connector Terminal M129 4 TAIL Battery voltage	(+)		(-)	1631 116111	\/oltage	
Connector Terminal Ground TAIL Battery voltage						
M129 4 TAIL Battery voltage	Connector	Terminal	Ground	L/WII O		
Off 0 V	M129	4	Glound	TAIL	,	
				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

- 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		Continuity
E5	7	M129	4	Existed

Does continuity exist?

TAIL LAMP SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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 illuminat	ion control unit		Continuity
Connector	Terminal	Ground	Continuity
M129	4		Not existed

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the IPDM E/R.

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ILLUMINATION CONTROL SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION CONTROL SIGNAL CIRCUIT

Component Function Check

INFOID:0000000003902671

1. CHECK ILLUMINATION CONTROL SIGNAL INPUT BY CONSULT-III

(E)CONSULT-III DATA MONITOR

- 1. Turn ignition switch ON.
- 2. Switch the lighting switch 1ST.
- 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	Con	Monitor status	
		Maximum	100 %
ILLUM CONT SIGNAL	Brightness level	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			
(-	+)	(-)	Condition		
Total illumination control unit			Brightness level	Voltage (Approx.)	
Connector	Terminal				
			Maximum	0 V	
M129	24	Ground	Midway	(V) 10 5 0 + 2 ms 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

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

ILLUMINATION CONTROL SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

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

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the total illumination control unit.

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MAP LAMP SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

MAP LAMP SWITCH CIRCUIT

Component Function Check

INFOID:0000000003942855

1. CHECK MAP LAMP SWITCH SIGNAL BY CONSULT-III

(E)CONSULT-III DATA MONITOR

- 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	
		DOOR	Door
MAP LAMP SW	Map lamp main switch	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		
(+)		(-)	Condition	Voltage	
Total illumination control unit			Map lamp main	(Approx.)	
Connector	Terminal		switch		
M129	26	Ground	DOOR	0 V	
	20		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

- 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.

MAP LAMP SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Total illumination control unit			Condition	
Connector	Terminal		Map lamp main switch	Continuity
			DOOR	Existed
	26	Ground	ALL ON	Not existed
M129			OFF	Not existed
WITZ9			DOOR	Not existed
	27		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

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

Total illuminat	ion control unit	Map lamp		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M129	26	R15	1	Existed
101129	27	KIS	2	LAISIEU

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

f 4.CHECK MAP LAMP SWITCH SIGNAL CIRCUIT FOR SHORT

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

Total illuminat	ion control unit		Continuity
Connector	Terminal	Ground	Continuity
M129	26	Glound	Not existed
	27		NOT EXISTED

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

${f 5.}$ CHECK MAP LAMP MAIN SWITCH GROUND CIRCUIT FOR OPEN

Check continuity between the map lamp harness connector and ground.

Map lamp			Continuity
Connector	Terminal	Ground	Continuity
R15	3		Existed

Does continuity exist?

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YES >> Replace the map lamp assembly (map lamp main switch).

NO >> Repair the harness or connector.

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DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH CIRCUIT

Component Function Check

INFOID:0000000003942089

1. CHECK EACH DOOR SWITCH SIGNAL BY CONSULT-III

(E)CONSULT-III DATA MONITOR

- Turn ignition switch ON.
- 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	Con	dition	Monitor status
DOOR-SW-DR	Front door	Open	On
DOOK-SW-DK	(driver side)	Close	Off
DOOD 014/40	Front door (passenger side)	Open	On
DOOR-SW-AS		Close	Off
DOOR-SW-RR	Rear door (RH)	Open	On
DOOK-SW-KK		Close	Off
DOOR-SW-RL	Rear door	Open	On
	(LH)	Close	Off

Is the item status normal?

YES >> Each door switch circuit is normal.

NO >> Refer to <u>INL-66, "Diagnosis Procedure"</u>.

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			
((+)		Condition		
Total illumination control unit			Door	Voltage (Approx.)	
Connector	Terminal				
			Open	0 V	
M129	29	Ground	Close	(V) ₁₅ 10 5 0 10ms 10ms 10ms 10ms 10ms 10ms 10ms 10	

DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Front door (pass					
	Terminals		Condition		
(+)		(–)	Condition		
	ation control nit		Door	Voltage (Approx.)	
Connector	Terminal				
			Open	0 V	
M129	8	Ground	Close	(V) 15 10 5 0	
Rear door (LH)					
	Terminals		Condition		
(+	+)	(-)	Condition		
	ation control nit		Door	Voltage (Approx.)	
Connector	Terminal				
			Open	0 V	
M129	9	Ground	Close	(V) ₁₅ 10 5 0 ***+10ms JPMIA0594GB 8.5 - 9.0 V	
Rear door (RH)					
, ,	Terminals				
			Condition		

Terminals			Condition		
(+)		(-)	Condition		
Total illumination control unit			Door	Voltage (Approx.)	
Connector	Terminal				
			Open	0 V	
M129	25	Ground	Close	(V) 15 10 5 0 ++10ms 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.

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DOOR SWITCH CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 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				Voltage (Approx.)	
Conr	Connector			Voltage (Approx.)	
Front door (driver side)		29		(V)	
Front door (passenger side)	M129	8	Ground	(V) ₁₅ 10 5 0	
Rear door (LH)		9		→ • 10ms	
Rear door (RH)		25		JРМIA0594GB 8.5 - 9.0 V	

Does continuity exist?

YES >> Replace the total illumination control unit.

NO >> GO TO3.

$3. \mathsf{CHECK}$ each door switch signal circuit for open

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

Total illumination control unit			Door switch		Continuity
Connec	tor	Terminal	Connector	Terminal	Continuity
Front door (driver side)		29	B16	2	
Front door (passenger side)	M129	8	B216	2	Existed
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 illum	ination cont	rol unit		Continuity
Connec	Connector			Continuity
Front door (driver side)		29		
Front door (passenger side)	M129	8	Ground	Not existed
Rear door (LH)		9		
Rear door (RH)		25		

DOOR SWITCH CIRCUIT	
< DTC/CIRCUIT DIAGNOSIS >	
 Does continuity exist? YES >> Repair the harnesses or connectors. NO >> Check each door switch. Refer to DLK-71, "Component Inspection". 	
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ROOM LAMP REQUEST SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

ROOM LAMP REQUEST SIGNAL CIRCUIT

Component Function Check

INFOID:0000000003944213

1. CHECK ROOM LAMP TIMER SETTING

(E)CONSULT-III WORK SUPPORT

- 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

- 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
ROOM LAMP REQ	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

PCONSULT-III ACTIVE TEST

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

Total illumination control unit			Test item	Voltage (Approx.)
Connector	Terminal	Ground	INT LAMP	(дрргох.)
M129 28			On	5 V
101129	20		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

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

ROOM LAMP REQUEST SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

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

Α

В

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

С

3.check room lamp timer signal for short

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

D

Iotal illuminat	ion control unit		Continuity	
Connector Terminal		Ground	Continuity	
M129	28		Not existed	

Е

F

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the BCM.

Diagnosis Procedure

INFOID:0000000003948248

Н

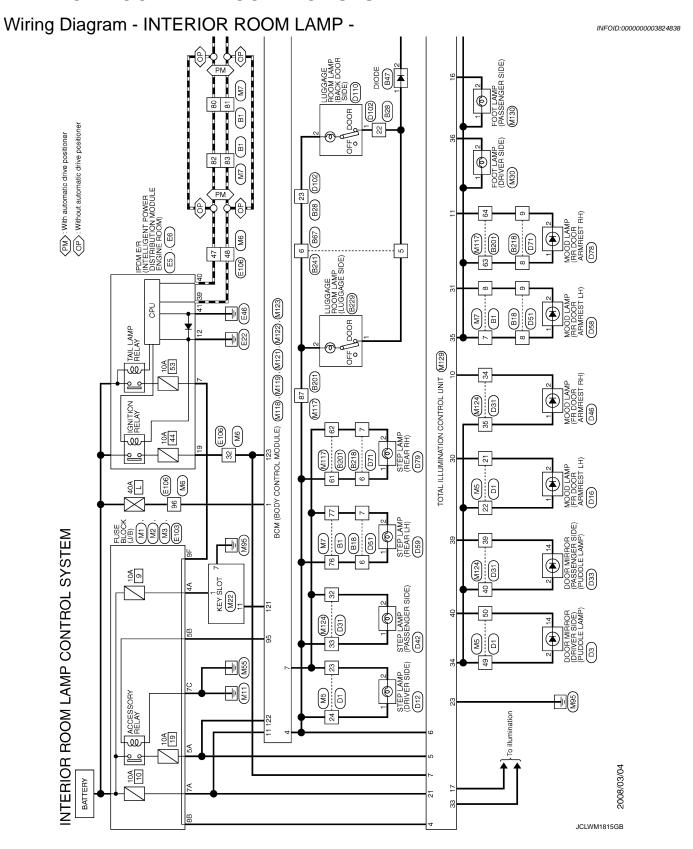
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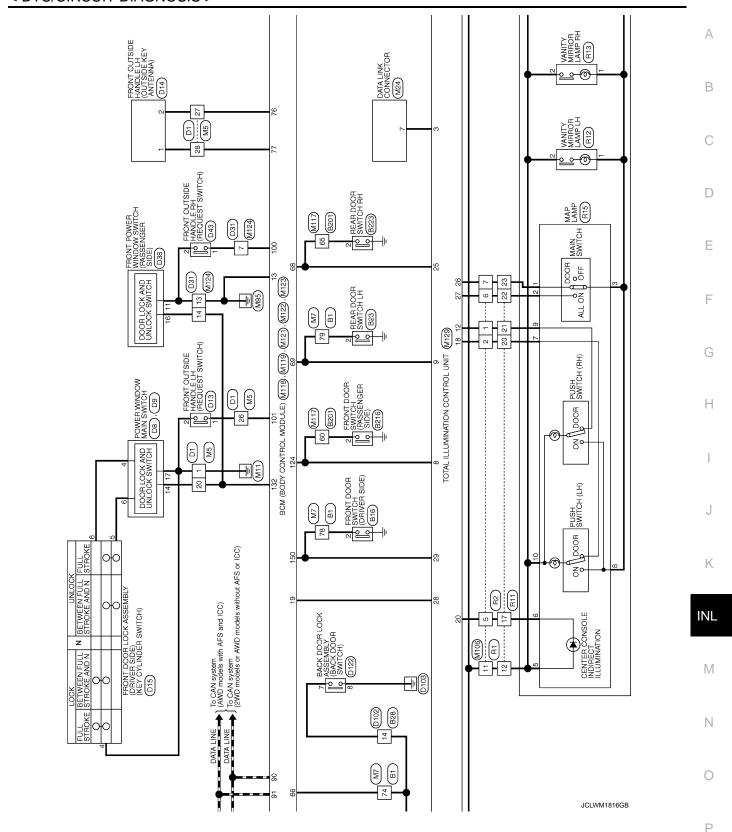
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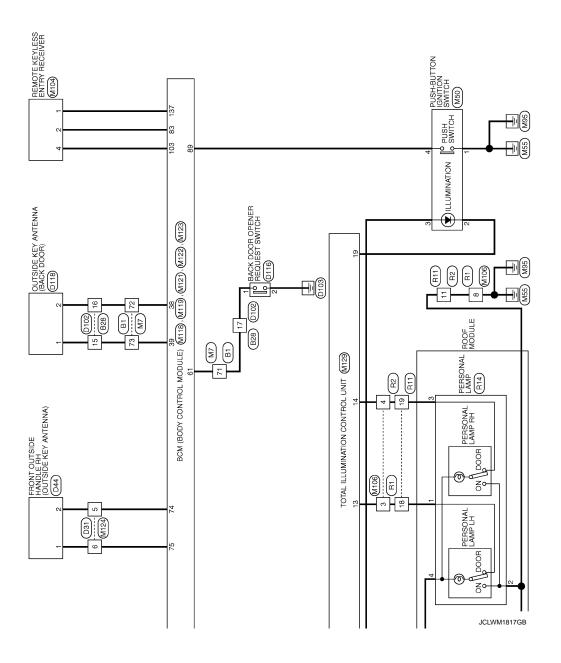
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INTERIOR ROOM LAMP CONTROL SYSTEM







< DTC/CIRCUIT DIAGNOSIS >

MITERIOR DOOM LAMP CONTROL SYSTEM Secretaria Part P	Connector No. B18 Connector No. B18 Connector Name WIFE TO WIFE Connector Type TK 10FV-NS9 T C T T T T T T T T	Connector No. B67		A B C
WITERIOR ROOM LAMP CONTROL SYSTEM	SWITCH (DRIVER SIDE) Il Name [Specification]	i Name [Specification]		
NTERIOR ROOM LAMP CONTROL SYSTEM		No. B47 Name DiODE Type 24335, G8 Golor GR		
INTERIOR ROOM LAMP CONTROL SYSTEM				ı
And the contractor Name wire To wire Connector Name (Specification) Terminal Color Signal Name (Specification)		MIRE TO TH24MW 15 15 15 15 15 15 15 15 15 15 15 15 15		
JCLWM1818GB		worlfcation]		
JCLWM1818GB	TERIOR ROOM LAY nector No. B1 WIRE TO WIRE TH80FW-CS16-TM T	B23 REAR DO A03FW		
		eo o o o o o o o o o o o o o o o o o o	JCLWM1818GB	Р

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< DTC/CIRCUIT DIAGNOSIS >

Connector No. B223 Connector Name REAR DOOR SWITCH RH Connector Type A03FW LS. Terminal Color No. Signal Name [Specification]	O O	Connector No	Terminal Color Signal Name Specification
Connector No. B218 Connector No. B218 Connector Name WIRE TO WIRE Connector Type TK10FW-NS8	RR RR	Connector No. D1	Terminal Color Signal Name (Specification) 1 1 2 2 4 2 2 2 2 2 2 2
SYSTEM Connector No. B216 Connector Name RROWT DOOR SWITCH (PASSENGER Connector Type A03FW LAS Terminal Color No. of Winc. Signal Name [Specification]	IR I	Connector No. B241 Connector Name WIRE TO WIRE Connector Type NSORPW-CS A.S. B.7 6 5 4	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 5 W -
Connector No. B201 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 WAS Read to the connector Type The connector Typ	Wire	Connector No. 8229 Connector Name LUGGAGE ROOM LAMP (LUGGAGE SIDE) Connector Type TKGSFW LLS.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 2 W -

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< DTC/CIRCUIT DIAGNOSIS >

DIS Signal Name Specification Signal Name Specification Signal Name Specification	E
Signal Name [Specification] Signal Name [Specification] Signal Name [Specification]	G
SYSTEM Connector No. Connector Type No. Connector No. Connect	I J K
INTERIOR ROOM LAMP CONTROL Standard Connector Name Power Window MAIN SWITCH	M N

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< DTC/CIRCUIT DIAGNOSIS >

Connector No. D43 Connector Name RROAT OUTSIDE HANDLE RH (REQUEST SWITCH) Connector Type RRO2FL-8	Terminal Color Signal Name [Specification] Color Color Signal Name [Specification] Color Color	Gornector No. DS8 Connector Name MOOD LAMP(RR DOOR ARMREST LH) Connector Type TKOZFGY	H3.	Terminal Color Signal Name [Specification] No. of Wire Y
Connector No. D42 Connector Name STEP LAMP (PASSENGER SIDE) Connector Type ITB02FW	Terminal Color Signal Name [Specification] 1 SB - 2 R	Connector No. D51 Connector Name WIRE TO WIRE Connector Type TK10MW-NS8	12 3 4 5	Terminal Color Signal Name [Specification] No. of Wire S. of Wire T. o.
SYSTEM Connector Name PRONT POWER WINDOW SWITCH	Terminal Color Signal Name [Specification]	Connector Name MOOD LAMP(FR DOOR ARMREST RH) Connector Type TROSFGY	H.S.	Terminal Calor Signal Name [Specification] No of Wire Signal Name [Specification]
INTERIOR ROOM LAMP CONTROL SY Gornector No. D33 Connector Name DOOR MIRROR (PASSENGER SIDE) Connector Type TH24MW-NH (12 11 10 9 7 6 5 4 3 2 1 [24 22 22 120 19 18 17 16 15 14 13	Color Signal Name [Specification] Color Signal Name [Specification] 2 Y - 14 V -	Connector No. D44 Connector Name FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA) Connector Type RK02MGY	H3S	Terminal Color Signal Name [Specification] No.

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< DTC/CIRCUIT DIAGNOSIS >

No. D79 Name STEP LAMP (REAR RH) Type TB02FW	Color Signal Name (Specification) L L	- No. D118 - Norman OUTSIDE KEY ANTENNA (BACK DOOR) - Type RK02FGY - Oolor of Wire Signal Name [Specification]	В
Connector No. Connector Name Connector Type	Terminal No.	Connector No. Connector No. Terminal Color No.	D
WAREST RH)	offcation]	offcation]	Е
D78 MOOD LAMP(RR DOOR ARMREST RH) TK02FGY	Signal Name [Specification]	BACK DOOR OPENER REQUEST SWITCH TK02MBR-P Signal Name [Specification] -	F
	Color of Wire Y Y	N Vire	G
Connector No. Connector Type Connector Type	Terminal No.	Connector No. Connector Type Connector Type No. Of Wire V.	Н
WIRE TO WIRE TKIOMW-NSS	15 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 17	UUGGAGE ROOM LAMP (BACK DOOR SIDE) TKGGPW Signal Name [Spredification]	I J
SYSTEM Connector No. D711 Connector Name WIRE Connector Type TK10N H.S. 11 21 21 21	Terminal Odor No. of Wire Odor No. of Wire Odor Odor	Connector No. D110 Connector Name SIDE) Connector Type TK03FW No. of Wire 1 GR	К
			INL
INTERIOR ROOM LAMP CONTROL Connector No. D59 Connector Name STEP LAMP (REARLH) Connector Name IBDZFW THS.	Signal Name (Specification)	Name (Specification	M
ROOM LAMP D59 STEP LAMP (REAR LH) TB02FW		0102 TH24FW TO 010 9 8	N
INTERIOR Connector No. Connector Name Connector Type	Terminal Color No. of Wire 1 L L 2 O	Connector No. Connector Name Connector Type 124 [23] Terminal Color No. of Wire 14 SB 15 BR 16 BR 17 V 22 GR 23 L	0
		JCLWM	1822GB

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< DTC/CIRCUIT DIAGNOSIS >

Connector No. E103 Connector Name FUSE BLOCK (J/B) Connector Type NS16FW-CS H.S. TF 6F 5F 4F 3F 12F 1F 16F 15F 14F 13F 12F 11F 10F 9F 8F	Terminal Color No. of Wire Signal Name [Specification] 9F R	Connector Name
Corrector No. E6 Corrector Name DISTRBUTION MODILE ENGINE ROOM) Corrector Type THOSFW-NH H.S. [42] 41] 40] 39 46] 45] 44] 43]	Terminal Color Signal Name Specification Color Signal Name Specification Color Color	Cornector No. M2
SYSTEM Connector No. E5 Connector Name IPDM E/R (NITELLIGENT POWER Connector Type ITHZOFPW-CSI2-M4-IV	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 12 B - - 19 W -	Connector No. M1
INTERIOR ROOM LAMP CONTROL S) Connector No. D122 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NSOBFW-CS A.S. TIME 2 3 4 5 6 7 8	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 7 SB -	Connector No. E106 Connector Name WIRE TO WRE Connector Type TH80FPC-SIG-TM4 LAS E E E E E E E E E E E E E E E E E E E

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< DTC/CIRCUIT DIAGNOSIS >

	Connector No. Connector Type TROBERR THOSE 2 3 Those 2 3 Those 2 3	Terminal Color Signal Name [Specification] Color Signal Name [Specification] Color Color	A B C
oefficetion)	Gi Gi	eeffication	Е
WIRE TO WIRE THBOMW-CSIG-TM4 THBOMW-CSI	M30 FOOT LAMP (DRIVER SIDE) C02FW 21	Signal Name [Specification]	F
	Connector No. Connector Type CONTE	Terminal Odior No. of Wive 2 L	G H
Specification]	7 8 7 8	eorification)	1
MW-CSIG-TM4	M24 DATA LINK CONNECTOR BD16FW 9 10 111 12 13 14 15 16 7 8	Signal Name [Specification]	J
	Connector No. Connector Name Connector Type H.S.	Terminal Odlor No. of Wire 7 GR	К
ONTROL SY infection]		(freation)	INL
RIOR ROOM LAMP CONTF Name MS NE TO WIRE Table 10 11 21 31 41 41 41 41 41 41 4	M22 Key Slot THI2PW-NH 1 2 3 4 5 6 7 8 9 10 11 12	Signal Name [Specification] BAT GND KEY SWITCH SIGNAL	M
INTERIOR ROOM LAMP CONTROL Connector Name WIRE TO WIRE Connector Type TH40MM-CS15 Con	Connector No. MZZ Connector Name KEY S Connector Type THIZE H.S.	Color Color No. of Wire No. of Wire	0
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< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SY Connector No.	SYSTEM M106	Gomector No. M117	Comector No. M118
Connector Type JAB04FB	Connector Type TK10MW-NSS	Connector Type TH80MW-CS16-TM4	Connector Type M03FB-LC H.S. 13
Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1	Terminal Color Signal Name [Specification] Color Signal Name [Specification]	Color Colo	Terminal Color Signal Name [Specification] No. of Wire SATT (F/L)
01110	7 BR		A DOMINO COMPANY DE CAMENTA DESCRIPTO COMPANY DE CAMENTA COMPANY DE CA
Connector Name BCM (BODY CONTROL MODULE) Connector Type NS16FW-CS	Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FGY-NH	ا و ا	ž.
4 5 6 7 <u> 8 9 10</u> 11 12 13 14 15 16 17 18 19	11.5. 51.00 do les fort de 15 de 10 de 10 de 10 de 15 de 1	H.S. 19 to the two the two trees are the two tr	
inal C	of O	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] Y4 SPECIFICATION SPECIFICAT	
13	N	76 V DRIVER DOOR ANT - 77 LG DRIVER DOOR ANT - 83 GR KEYLESS ENTRY RECEIVER SIGNAL 89 SB PUSH SW	
		90 P CAN-L CAN-L 91 L CAN-L 95 O ACC FILAY CONT 1100 G PASSENGER DOOR REQUEST SW	

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< DTC/CIRCUIT DIAGNOSIS >

P. (RH) (RH) (TITONS DR) SW LED MAIP MAIP MAIP RR) DOOR) DOOR) MAIL ON) MAIR MAIN MAIN MAIN MAIN MAIN MAIN MAIN MAIN	39(3) MREST LH)	22 23 24 22 23 24	ufication]		А
PERSONAL LAMP (RH) FOOT LAMP (RH) HSPL ILLUMINATIONS MAP LAMP (RR) PUSH ENG START SW LED AMPRINCE LAMP BATT FOWER SUPPLY BATT FOWER SUPPLY MAP LAMP SW (RR) MAP LAMP SW (ALL ON) RAP RAMP SW (RR) ROOM LAMP SW ALL ON)	MODD LAMP (FR ARMEST LH) MODD LAMP (FR ARMEST LH) MODD LAMP (FR ARMEST LH) HSPL POWER SUPPLY 3 HSPL POWER SUPPLY 2 HSPL POWER SUPPLY 2 HSPL POWER SUPPLY 1 FOOT LAMP (LH) PUDDLE LAMP (LH) PUDDLE LAMP (LH)	No. R11 Name WIRE TO WIRE Type TH24MW-NH 1 2 3 4 5 6 7 8 9 10 11 12 11 12 12 23 24 13 14 15 16 17 18 19 20 21 12 22 23 24	Signal Name [Specification]		В
14 CR	0 0 0 0 0 0 0 0 0	Corrector No. RIII Connector Name WIRN Connector Type The M.S. H.S. H.S. H.S. H.S. H.S. H.S. H.S.	Color No. of Wire No. of		C
FROL UNIT	ication] MAL MAL MAL MARET RH) SS SS SLHI		[cation]		Е
r No. MI29 r Name TOTAL ILLUMINATION CONTROL UNIT Type TH40FW-NH 12 3 4 5 6 7 6 9 101112 13 14 15 16 17 16 19 20 11 22 13 14 15 16 17 16 19 20 11 22 13 14 15 16 17 16 19 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 22 13 14 15 16 17 16 18 20 11 20 13 14 15 16 17 16 18 20 11 20 13 14 15 16 17 16 18 20 14 18 18 20 18 18 20 1	Signal Name (Specification) DDL2 TALLLAMP SIGNAL ACC SIGNAL BAT SAVER SIGNAL IGN SIGNAL IGN SIGNAL DOOR SW (R.) MOOD LAMP (FR RAMREST RH) MOOD LAMP (FR RAMREST RH) MACHANF (FR PARMEST RH) MACHANF (SR PARMEST RH) MACHANF (SR) PERSONAL LAMP (AS)	o wire w-nH 8 7 6 5 4 20 19 18 17 16	Signal Name (Specification)		F
S ectr	Terminal Color No. of Wire No. of Wire A Color No. of Wire A Color No. of Wire A Color No. of Wire B Color No. of	Connector No. R2 Connector Name WIRE T Connector Type TH24R H.S. 12 [11 10 9] [24 [23 22 21]	Color No. 101 Color No. 101 No. 11 Color No. 11 Color Color		G
CO C		888			Н
Name WIRE TO WIRE	Signal Name [Specification]	5 4 3 2 1 1 1 4 1 1 3 1 2 1 1 1	Signal Name [Specification]		I
MI24 WIRE TO WIRE TH40MW-CS15 4 5 6 7 8 9 6 7 8 9 7 8 9 7 8 9 8 9 9 9 9 9 9 9 9 9 9	Signal N	No. R1 Name WIRE TO WIRE Type ITK10FW-NSS 10 9 8 7 6 = 14 18 17 16 15 14			J
SYSTEM Connector No. It Connector Name IV Connector Type IT Connec	Terminal Color No. of Wire F 5 SH 13 B 114 O 23 Y 23 Y 23 Y 23 Y 24 Y 25	Connector No. Connector Type M.S. 10 9	Color No. Of Wire		K
					INL
INTERIOR ROOM LAMP CONTROL Sonnector No. M123 Connector Name BCM (BODY CONTROL MODULE) Connector Type THOFG-NH THORSON CONTROL MODULE) MAS H.S. INDEPENDENT CONTROL MODULE)	Signal Name (Specification) KEY SLOT W ACC F/B IGN F/B FOASSENGER DOOR SW POWER WINDOW SW COMM RECEIVER/SENSOR GND DRIVER DOOR SW	MI30 FOOT LAMP (PASSENGER SIDE) COZFW	Signal Name [Specification]		M
ROOM M123 BCM (BODY TH40FG-NH	Sign 1 1 1 1 1 1 1 1 1 1	M130 FOOT LAMP CO2FW	S		Ν
RIOR F More B Trype Trype Tilispielelieliel	Oblor of Wire BR W W W W W W BB BB BB BB BB BB BB BB BB		Color of Wire GR		
INTERIOF Connector Name Connector Type H.S.	Terminal No. 121 122 122 123 124 137 137 150	Connector No. Connector Type	Terminal No.		0
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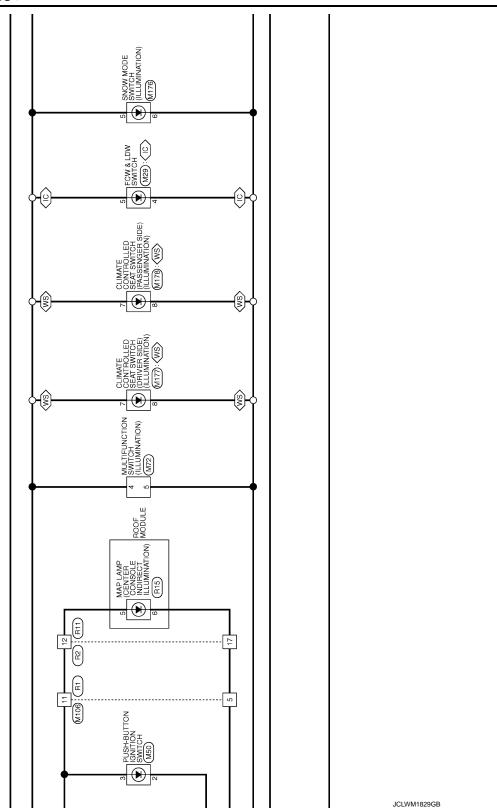
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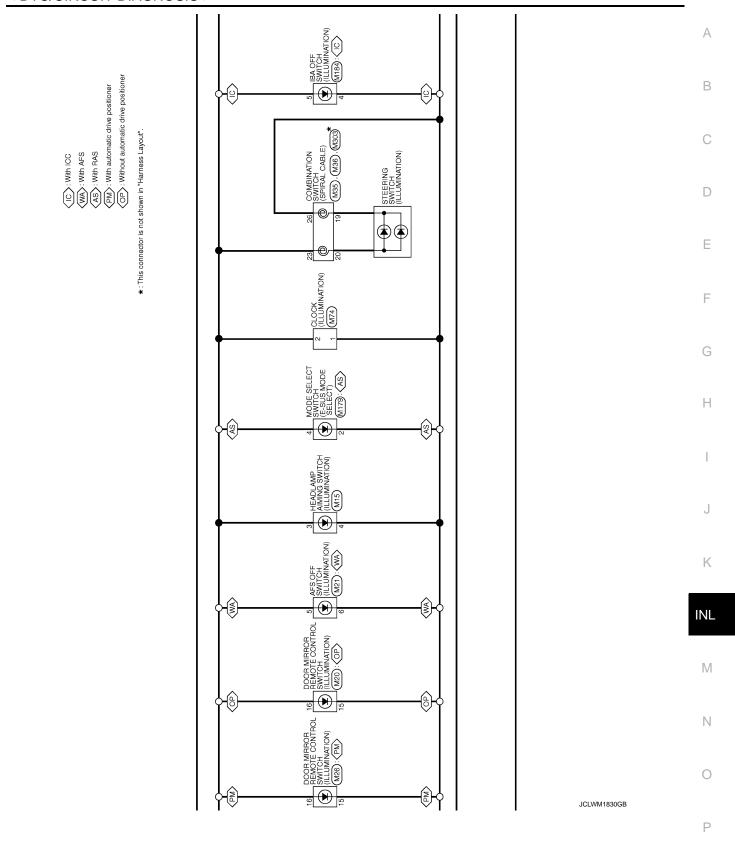
INTERIOR	INTERIOR ROOM LAMP CONTROL S	SYSTEM							
Connector No.	R12	Connector No.	R13	Connector No.	R14	Connector No.	lo. R15	9	_
Connector Name	VANITY MIRROR LAMP LH	Connector Name	VANITY MIRROR LAMP RH	Connector Name	PERSONAL LAMP	Connector Name		MAP LAMP	
Connector Type MCA02FW	MCA02FW	Connector Type	MCA02FW	Connector Type	TH04FW-NH	Connector	Connector Type TK10FW	10FW	_
H.S.		H.S.		语.	4 3 2 1	H.S.	الحلايا	1 2 = 3 4 5 6 7 8 9 10	
Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	or Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	_
1 B	1	- -	1	-	1	-	æ	DOOR ON SIG	
2 ^	1	2 ^	1	2 B	1	2	~	ALL ON SIG	
				3 SB		8	В	GND	_
				^	1	2	>	LED+	
						9	>	LED-	
						7	۵	DOOR SIG L	
						8	В	GND	
						6	_	DOOR SIG R	
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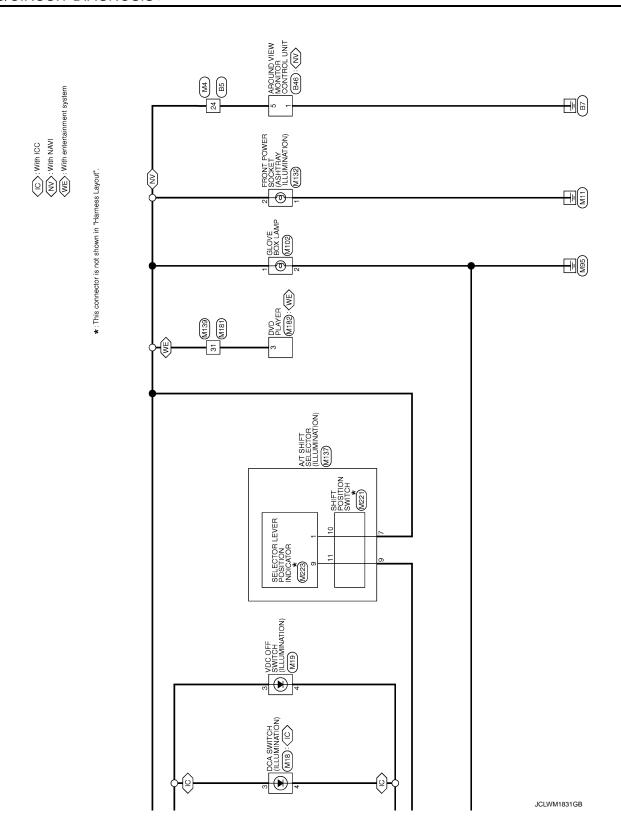
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ILLUMINATION Α Wiring Diagram - ILLUMINATION -INFOID:0000000003824839 В TRIP COMPUTER SWITCH TILLUMINATION C *2 TOTAL ILLUMINATION CONTROL UNIT (M129) FUSE BLOCK (J/B) (M1), (M2), (M3), (E103) D ILLUMINATION CONTROL SWITCH T) ILLUMINATION (PM) : With automatic drive positioner (OP) : Without automatic drive positioner (NV) : With NAVI (ON) : Without NAVI To BOSE audio without navigation To BOSE audio with navigation (single monitor) To BOSE audio with navigation (twin monitor) Е AV CONTROL UNIT (MBO), (MBB): (NV) (MB1), (MB3): (ON) F METER ILLUMINATION COMBINATION METER (M53) UNIFIED METER CONTROL UNIT G 10A 10A Н IGNITION SWITCH ON or START 10A 53 10A UNIFIED METER AND A/C AMP. (M66), (M67) J To CAN system (AWD models with AFS and ICC) (20MD models or AWD models or AWD models without AFS or ICC) 10A K B1 B1 B00R SWITCH (DRIVER SIDE) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (ES),(E6) M7 INL TAIL LAMP RELAY 10A M BCM (BODY CONTROL MODULE) (M118), (M123), (M123) 局 5 2 8 11 9 7 COMBINATION SWITCH (M33) -w ¥ 15A 50 Ν CPU 15A 51 (B) (§) (≥ ILLUMINATION 0 2008/03/04 BATTERY Р

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

Sometor No. B46 Sometor No. B46 Sometor Name AROUND VIEW MONITOR CONTROL UNIT Connector Type TH40FW-1NH Sometor Type TH40FW-1NH Sometor Type TH40FW-1NH Sometor Type TH40FW-1NH Signal Name [Specification] Signal Nam	Connector No. E108 Connector Name WRR TO WRR Connector Type TH80FW-CS16-TM4 Line Connector Type TH80FW-CS16-TM4 Line Connector Type TH80FW-CS16-TM4 No. of Wire Signal Name [Specification] No. of Wire Signal Name [Specification]	A B C
Connector No. B16 Connector Name FRONT DOOR SWITCH (DRIVER SIDE) Connector Type A03FW LS Terminal Golor Signal Name [Specification] Po. GR	Connector No. E103	E F G
Connector No. B5 Connector Name WIRE TO WIRE	Connector No. E6 Connector Name PDM E.P. (NTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Type THOSEPW-NH	J K
ILLUMINATION Connector No. Bi Connector Name WIRE TO WIRE Connector Type TH80IPV-CS16-TM4	Connector No. ES	INL M N O
		Р

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ILLUMINATION	Γ	Γ	27
Connector No. MI Connector Name FUSE BLOCK (J/B)	Connector No. MZ Connector Name FUSE BLOCK (J/B)	Connector Name FUSE BLOCK (J/B)	Connector No. M4 Connector Name WIRE TO WIRE
Connector Type NS06FW-M2	Connector Type NS10FW-CS	Connector Type NS12FW-CS	Connector Type TH40FW-NH
1		E	E
3A	48 38 <u>18</u> 18 108 98 88 78 68 58	56 46 38 26 16 12011010090 80 70 60	(2) 19 18 17 16 15 14 13 12 11 10 9 8 17 6 5 4 13 12 11 14 13 12 11 14 13 12 11
of C	of Wire Signal Name	Terminal Golor Signal Name [Specification] No. of Wire	Terminal Golor Signal Name [Specification] No. of Wire
2A G	8B R -	, L 221	-
ł			
Connector No. M6	Connector No. M7	Connector No. M15	Connector No. M18
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name HEADLAMP AIMING SWITCH	Connector Name DCA SWITCH
Connector Type TH80MW-CS16-TM4	Connector Type TH80MW-CS16-TM4	Connector Type A04FW	Connector Type TK06FGY
H.S. H.S. A. C.	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HS 12 13 4	HS. 654321
Terminal Color Signal Name [Specification]	Terminal Color No. of Wire Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire	Terminal Color No. of Wire Signal Name [Specification]
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ILLUMINATION

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M26 DOOR MERCH REMOTE CONTROL TAKI GFER 2 3 4 5 5 6 7 9 10 11 12 13 14 15 16	Signal Name (Specification)	M36 COMBINATION SWITCH (SPIRAL CABLE) TKGBFCV-1V 24 25 26 31 32 33 34	Signal Name (Specification)		В
ector No.	Terminal Color No. of Wire 15 O 16 W	ector No. ector Name ector Type	Terminal Color No. of Wire 26 B		C
Comm	<u> </u>				
MZI AFS OFF SWITCH TKOGFW-1V 5 612	Signal Name [Specification]	M35 COMBINATION SWITCH (SPIRAL CABLE) TK06FY-EX-IV 21 22 23 28 29 30	Signal Name [Specification]		E F
ector No. ector Name ector Type	Terminal Color S	ector No. ector Type	Terminal Color No. of Wire 23 R		G
		Comm			Н
М20 DOON MINISTEN EMATE CONTROL TR. ISPW 2 3 4 5 5 6 7 9 10 11 12 13 14 15 16	Signal Name [Specification]	ызмитон 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name [Specification] OUTPUT 4 OUTPUT 3 INPUT 3 OUTPUT 5 INPUT 1 INPUT 1 OUTPUT 1 INPUT 1 OUTPUT 1		I
M20 DOOGN MIRROR REMC SWITCH (WITHOUT A TK18FW 1 2 3 4	Signal	33 OMBINATION HIGFW-NH 2 3 0 10	Sign and the state of the state		J
Connector No.	Terminal Color No. 16 W 16	Connector No.	Terminal Color No. 15 SB 2 SB 5 SB 5 SB 6 SB 6 SB 7 SB 7 SB 7 SB 7 SB 7 SB 7		K
					INL
псн	Signal Name [Specification]	житон	Signal Name [Specification]		M
M19 VDC OFF SWTCH TK08FGV		M29 FOW & LDW SWITCH TK08FGY			Ν
ILLUMINATION Connector No. Mills Connector Type ITKOBFO H.S.	Terminal Color No. Of Wire A	Connector No. Connector Name Connector Type	Terminal Color No. O'Wire 4 R R C C C C C C C C		0
				JCLWM1834GB	Р

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Connector No. M66	Connector Name UNIFED METER AND A/C AMP.	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 7 GR COMM (AMP.:)-METER) 27 L.G COMM (METER->AMP.)	Corrector No. M80	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 9 R ILLUMINATION
Connector No. M54	METER CONTROL SWITTER CONTROL	Terminal Color Signal Name [Specification] Color Signal Name [Specification] Color Color	Connector No. M74 Connector Name CLOCK Connector Type ITHO4FW-NH H.S.	Terminal Color Signal Name (Speerfication)
Connector No. M53	Connector Name COMBINATION METER Connector Type TH40FW-NH H.S. 1.2 3 4 5 6 7 8 9 1011 1214 1617 1819 1820 18	Terminal Color Signal Name [Specification] Color Signal Name [Specification] Color Color	40 O ILLUMINATION CONTROL SW (+) Connector No. M72 Connector Name MULTIFUNCTION SWITCH Connector Type IntliFBW-NH 1.3 2 4 6 8 10 12 14 16 1 3 5 7 9 11 13 15	Terminal Color Signal Name [Specification] A R ILL CONT COLOR COLOR
ILLUMINATION Connector No. M50	Connector Name PUSH-BUTTON IGNITION SWITCH Connector Type TK08FBR H.S. 1	Terminal Color No. of Wire Signal Name [Specification] 2 R	M67 Connector No. M67 Connector Name UNIFIED METER AND A/C AMP.	Terminal Color Signal Name [Specification] Color Col

JCLWM1835GB

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

Connector No. MICZ Connector Type ACIZPW Connector Type ACIZPW Terminal Color To of Wire 1 B	Connector No. M122	A B C
Connector No. M88	Connector No. M119	E F G
Cornector No. Miss Cornector Name AV CONTROL UNIT (WITHOUT NAVI) Cornector Type TH2APW-NH	Connector No. M118 Connector Type MOSFB-LC H.S. Terminal Color No. of Wire Wire Sigral Name [Specification] The Most Sigral Name [Specification]	J K
Connector No. M81 Connector No. M81 Connector No. M81 Connector Name Av CONTROL UNIT (WITHOUT NAVI) Connector Type THIRFW-CS2 THIRFW-CS2	Connector No. M106 Connector Name WIRE TO WIRE Connector Type TK10MW-NS8 TK10MW-NS8 TK10MW-NS8 TK10MW-NS8 TK10MW-NS8 TK10MW-NS8 TK10MW	INL M N O

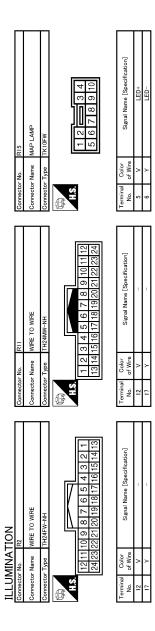
Revision: 2009 March INL-93 2009 FX35/FX50

ILLUMINATION Connector No. M123	TION M123	Connector No.	M129	\Box	M132	
Connector Name Connector Type	BCM (BODY CONTROL MODULE) TH40FG-NH	Connector Name Connector Type	TOTAL ILLUMINATION CONTROL UNIT TH40FW-NH	Connector Name Connector Type	FRONT POWER SOCKET NS03FW-CS	Connector Name A/T SHIFT SELECTOR
(4) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		H.S.	2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 55 55 55 55 55 55 55 55 55 55 55 55 55	H.S.		H.S. 1 2 3 4 5 6 7 8 9 10 11 12
Terminal Color No. of Wire 142 O 143 P 144 G 145 L 145 C 150 GR	Signal Name [Specification] COMBI SW OUTPUT 5 COMBI SW OUTPUT 1 COMBI SW OUTPUT 2 COMBI SW OUTPUT 3 COMBI SW OUTPUT 3 COMBI SW OUTPUT 4 DRWER DOOR SW	Terminal Color Col	Signal Name [Specification] TAIL LAMP SIGNAL HSPL ILLUMINATIONS PUSHE HGG START SW LED AMBIENCE LAMP GND ILL COOTT INPUT HSPL POWER SUPPLY 3 HSPL POWER SUPPLY 1	Terminal Color No. of Wire 1 B 2 2 R	Signal Name [Specification]	Terminal Golor Signal Name [Spacification] No. of Wire Signal Name [Spacification]
Connector No. Connector Name Connector Type H.S. (16 15 14	No. M139 Type WIRE TO WIRE THESPW-NH	Connector No. Connector Name Connector Type	М176 SNOW MODE SWTCH ТКОВРW 5 6 1 2	Connector No. Connector Name Connector Type	MI77 CLMATE CONTROLLED SEAT SWITCH (DRIVER SIDE) TK(10FW 1	Connector No. M178 Connector Name (PASSENGER SIDE) Connector Type TKO8FBR TKO8FBR TKO8FBR TKO8FBR TKO8FBR
Terminal Golor No. of Wire 31 L	Signal Name [Specification]	Terminal Color No. of Wire 5 R 6 GR	Signal Name [Specification]	Terminal Golor No. of Wire 7 R 8 R	Signal Name [Specification]	Terminal Golor Signal Name [Specification] No. of Wire Signal Name [Specification] R R R R R R R R R

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ILLUMINATION

Connector No. M184 Connector Name IBA OFF SWITCH Connector Type TKOBFGV TAS TROBERON	Terminal Color Signal Name [Specification]	Connector No. R1 Connector Name WIRE TO WIRE		A B C
Connector No. MI82 Connector Name DVD PLAYER Connector Type TH32FW-4WH H.S. Image: Connector Type	Terminal Color No. of Wire Signal Name [Specification] 3 L. ILLUMINATION	Connector No. M303		E F G
Connector No. M181 Connector Type TH32MM-NH L.S. (1 2 3 4 5 6 7 8 9 101711213141516 (1 18 19 20 21 22 22 24 25 26 77 28 29 30 31 32	Terminal Color No. of Wire Signal Name [Specification] 31 L	M23 Connector No. M223 Connector Name SELECTOR LEVER POSITION INDICATOR Connector Type XARP-09V M22 M2		I J K
ILLUMINATION Connector No. M179 Connector No. M179 Connector Name SELECT SWITCH (E-SUS MODE Connector Type TK08FW TK08	Terminal Color Signal Name [Specification]	Connector No. M221	JCLWM1838GB	M N
				Р



JCLWM1839GB

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

TOTAL ILLUMINATION CONTROL UNIT

Reference Value INFOID:0000000003824840 Α

В

С

VALUES ON THE DIAGNOSIS TOOL

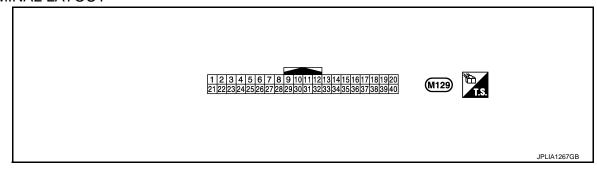
CONSUL:	T-III MONITOR	RITEM	

Monitor Item	Condition	Value/Status	
BAT SAVER SIGNAL	Interior room lamp battery saver is activated. (BCM cuts the interior room lamp power supply.)	Off	
BAT SAVER SIGNAL	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	Е
GN SIGNAL	Ignition switch ON	On	
ACC SIGNAL	Ignition switch OFF	Off	
ACC SIGNAL	Ignition switch ACC or ON	On	
	Other than the conditions as per the following	Off	
ROOM LAMP REQ	Hospitality lighting function table "Scene 1" Interior room lamp timer is activated. (Door is unlocked. etc.) Welcome light function is activated.	On	G
FALL LAND CLONIAL	Tail lamps are OFF.	Off	F
AIL LAMP SIGNAL	Tail lamps are ON condition.	On	
2000 0111 00	Driver door close	Off	
OOR SW-DR	Driver door open	On	
2000 014/ 40	Passenger door close	Off	
OOR SW-AS	Passenger door open	On	J
2000 014/ 00	Rear RH door close	Off	
OOR SW-RR	Rear RH door open	On	
OOD CW DI	Rear LH door close	Off	
OOOR SW-RL	Rear LH door open	On	
	Map lamp main switch OFF	Off	IN
MAP LAMP SW	Map lamp main switch ALL ON	ALL ON	-
	Map lamp main switch DOOR	DOOR	N
	Engine switch illumination OFF	Off	
NGINE SW ILLUMI	While engine switch illumination heart beat function	PULSE	 -
	Ignition switch ON or tail lamps ON	STEADY	N
	Foot lamp OFF	0%	
OOT LAMP	Any door open (Ignition switch OFF)	80%	
	Engine running (Tail lamps OFF)	10%	
	Map lamp main switch OFF	0%	
MAP LAMP-DR	Any door open and driver door close (Map lamp main switch DOOR)	30%	P
	Driver door open (Map lamp main switch DOOR)	90%	
	Map lamp main switch ALL ON	100%	

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Map lamp main switch OFF	0%
MAP LAMP-AS	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%
FODDLE LAWIF	Puddle lamp ON	100%
MOOD LAMP	Mood lamp OFF	0%
WOOD LAWF	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%
-	Each illumination (linked with hospitality lighting) OFF	0%
HSPL ILLUMI	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

	inal No.	Description				Value
+ (Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
3 (V)	Ground	DDL2 communica- tion line	-		_	_
4	Ground	Tail lamp signal	Input	Tail lamps	ON	Battery voltage
(L)	Ground	Tall lamp signal	input	Tall lallips	OFF	0 V
5	Ground	Ignition switch ACC	Input	Ignition switch	ACC or ON	Battery voltage
(V)	Ground	ignition switch ACC	iliput	igilillori switch	OFF	0 V

	inal No.	Description				Value		
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)		
0					o battery saver is activated. room lamp power supply)	0 V		
6 (P)	Ground	Battery saver	Input	ed.	o battery saver is not activat- ior room lamp power supply)	12 V		
7 (W)	Ground	Ignition switch ON	Input	Ignition switch	ON OFF or ACC	Battery voltage 0 V		
8 (G)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB		
					ON (Door open)	8.5 - 9.0 V 0 V		
9 (O)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) ₁₅ 10 5 0		
					ON (Door open)	JPMIA0594GB 8.5 - 9.0 V 0 V		
10	Ground	Mood lamp (Front	Output	Mood lamp OFF		12 V		
(SB)		door armrest RH)		Any door open		0 V		
11 (Y)	Ground	Mood lamp (Rear door armrest RH)	Output	Mood lamp OFF		12 V		
(1)		door anniest Kinj		Any door open Map lamp main switch OFF		0 V		
				Map lamp main s	wilch OFF	12 V		
				Any door open an lamp main switch	d passenger door close (Map DOOR)	(V) 10 5 0		
12 (P)	Ground	Map lamp (Passen- ger side)	Output -	Output	Output			8.4 V
ν- /		<i>G.</i> ,		Passenger door o	ppen (Map lamp main switch	(V) 10 5 0		
				Man laws	witch ALL ON	1.2 V		
				Map lamp main sv	WITCH ALL ON	0 V		

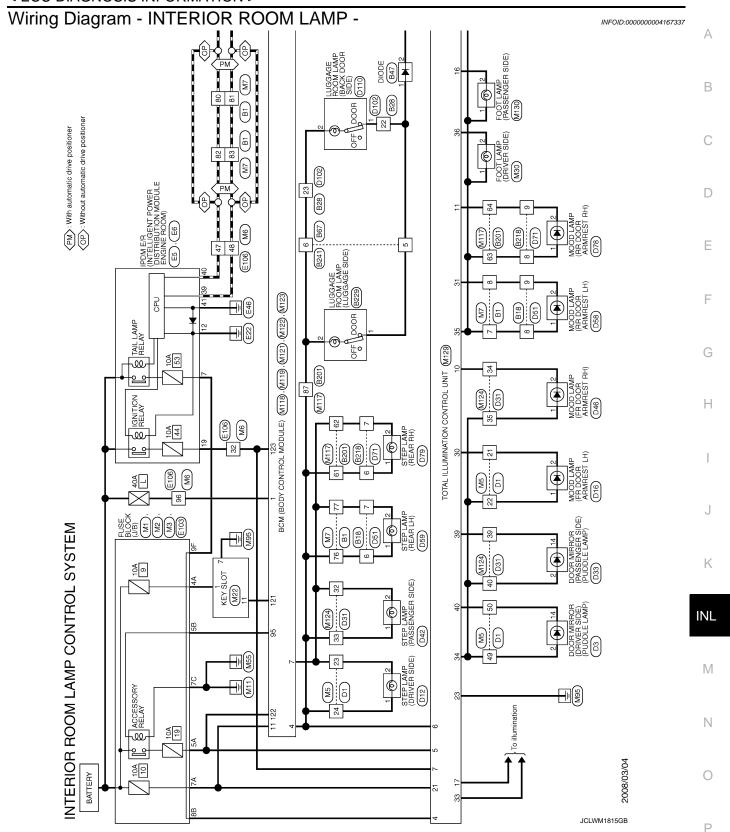
	inal No. e color)	Description			Value
+	-	Signal name	Input/ Output	Condition	(Approx.)
				Map lamp main switch OFF	12 V
13	Ground	Derecond Jame (I-H)	Output	Any door open and rear LH door close (Map lamp main switch DOOR)	(V) 10 5 0 ****2 ms JPLIA1190ZZ 8.4 V
(G)	Glound	Personal lamp (LH) O	Сири	Rear LH door open (Map lamp main switch DOOR)	(V) 10 5 0 ****2 ms JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON	0 V
				Map lamp main switch OFF	12 V
14	Ground	Personal lamp (RH)	Output	Any door open and rear RH door close (Map lamp main switch DOOR)	(V) 10 5 0 ++2 ms JPLIA1190ZZ 8.4 V
(R)	Ground	Personal lamp (RH)	Culput	Rear RH door open (Map lamp main switch DOOR)	(V) 10 5 0 → +2 ms JPLIA1191ZZ 1.2 V
				Map lamp main switch ALL ON	0 V

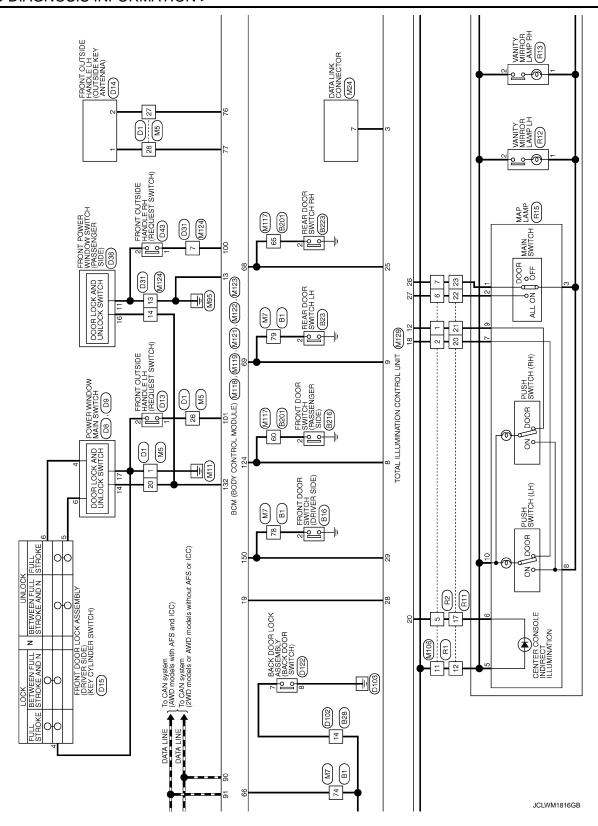
	inal No.	Description			Value	
+ (VVire	e color) –	Signal name	Input/ Output	Condition	(Approx.)	
16 (GR)	Ground	Foot lamp (RH)	Output	Foot lamp OFF Any door open (Ignition switch OFF)	12 V (V) 10 5 0	
(0.10)				23.500	Ignition switch ON (Tail lamps OFF)	(V) 10 5 0
17 (LG)	Ground	Each illumination (Linked with hospital- ity lighting)	Output	Ignition switch OFF Tail lamp ON	NOTE: Illumination control brightness level is midway (V) 10 5 0 PLIA1194ZZ	
18	Ground	Map lamp (Driver	Output	Map lamp main switch OFF Any door open and driver door close (Map lamp main switch DOOR)	12 V (V) 10 5 0	
(L)	Sidulid	side)	Output	ide)	Driver door open (Map lamp main switch DOOR)	(V) 10 5 0 +-2 ms JPLIA1191ZZ 1.2 V

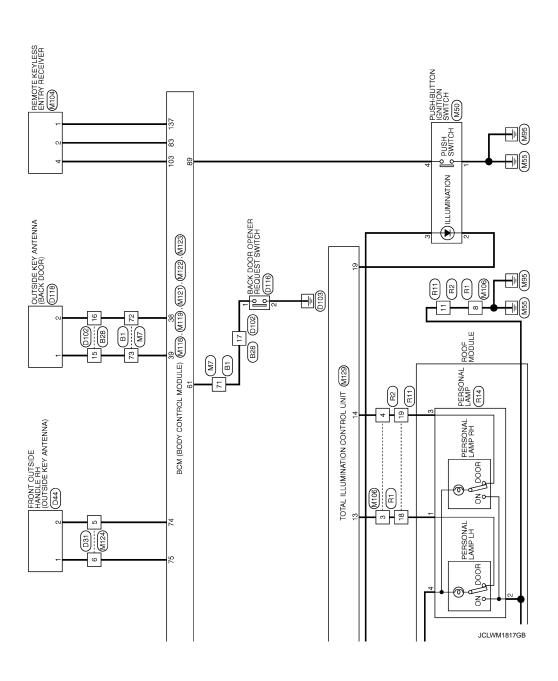
	ninal No. re color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
				Engine switch illun	nination OFF	12 V
19 (R)	Ground	Engine switch illumi- nation	Output	While engine switch function	ch illumination heart beat	(V) 10 5 0 → 500 ms JPLIA1195ZZ
				Engine switch illun	nination ON (Tail lamp OFF)	0 V
				Center console inclamp) OFF	lirect illumination (ambience	12 V
20 (Y)	Ground	Ambience lamp (Center console indi- rect illumination)	Output	Ignition switch ON	(Tail lamp OFF)	(V) 10 5 0 → 2 ms JPLIA1196ZZ 10.8 V
				Map lamp main sw	vitch ALL ON	0 V
21 (R)	Ground	Battery power supply	Input	Ignition switch OF	=	Battery voltage
23 (B)	Ground	Ground	_	Ignition switch ON		0 V
				Tail lamp OFF		5 V
					Illumination control bright- ness level is minimum	8 V
24 (O)	Ground	Illumination control signal	Input	Tail lamp ON	Illumination control bright- ness level is midway	(V) 10 5 0 + 2 ms JPLIA1199ZZ
					Illumination control bright- ness level is maximum	0 V
25 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 ++10ms JPMIA0594GB
26	Ground	Map lamp switch	Input	Map lamp main	ON (Door open) OFF or ALL ON	8.5 - 9.0 V 0 V 5 V
(BR)		(DOOR)	•	switch	DOOR	0 V

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
27	Crawa	Map lamp switch	lm · · · t	Map lamp main	OFF or DOOR	5 V
(R)	Ground	(ALL ON)	Input	switch	ALL ON	0 V
				Other than the cor	nditions as per the following	5 V
28 (SB)	Ground	Room lamp timer	Input	Interior room lai (Door is unlocked)	function table "scene 1" mp timer is activated. ed. etc.) unction is activated.	0 V
29 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) ₁₅ 10 5 0 +-10ms JPMIA0594GB 8.5 - 9.0 V
					ON (Door open)	0 V
				Mood lamp OFF		12 V
				Any door open		0 V
30 (LG)	Ground	Mood lamp (Front door armrest LH)	Output	Engine running (T	ail lamps OFF)	(V) 10 5 0 + 2 ms JPLIA1189ZZ 8.4 V
				Mood lamp OFF		12 V
				Any door open		0 V
31 (O)	Ground	Mood lamp (Rear door armrest LH)	Output	Engine running (T	ail lamps OFF)	(V) 10 5 0 +-2 ms JPLIA1189ZZ 8.4 V
33		Hospitality lighting		_	battery saver is activated.	0 V
(W)	Ground	power supply 3	Output	Interior room lamp ed.	battery saver is not activat-	12 V
34		Hospitality lighting		-	battery saver is activated.	0 V
(R)	Ground	power supply 2	Output	Interior room lamp ed.	battery saver is not activat-	12 V
				Interior room lamp	battery saver is activated.	0 V
35	Ground	Hospitality lighting	Output			

	inal No.	Description	·			Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
				Foot lamp OFF		12 V
36 (L)	Ground	Foot lamp (LH)	Output	Any door open (igr	nition switch OFF)	(V) 10 5 0 + 2 ms JPLIA1192ZZ 2.4 V
, ,				Ignition switch ON	(Tail lamps OFF)	(V) 10 5 0 *** *2 ms JPLIA1193ZZ
39	Ground	Puddle lamp (RH)	Output	Puddle lamp (RH)	OFF	12 V
(B)		,			ON	0 V
40	Ground	Puddle lamp (LH)	Output	Puddle lamp (LH)	OFF	12 V
(O)		: : ··	2	: »=···- ·=····	ON	0 V







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INTERIOR ROOM LAMP CONTROL S	SYSTEM		
	- B1 P	Connector No. B16	Connector No. B18
Connector Name WIRE TO WIRE	82 L 83 P -	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Name WIRE TO WIRE
Connector Type TH80FW-CS16-TM4		Connector Type A03FW	Connector Type TK10FW-NS8
H.S.		H.S.	109876 54321 1817 1615 1413 1211
Terminal Color Signal Name [Specification]		Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
Н		Н	PT 9
71 G			7 L = -
Н			0 6
73 W			
╀			
H			
Н			
79 W			
80 L			
Connector No. B23	Connector No. B28	Connector No. B47	Connector No. B67
Connector Name REAR DOOR SWITCH LH	Connector Name WIRE TO WIRE	Connector Name DIODE	Connector Name WIRE TO WIRE
Connector Type A03FW	Connector Type TH24MW-NH	Connector Type 24335_C9900	Connector Type NS08MW-CS
SH SH	1.2 3 4 5 6 7 8 9 10 11 12 12 12 12 12 12	HS.	HS 12 12 14 5 6 7 8
]			
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	inal o
2 W =	14 V	1 GR	S CR
	B 8	2	
	\dashv		
	22 GR –		
	23 L –		

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< ECU DIAGNOSIS INFORMATION >

iffoatton]	R SIDE) 16 13 2 1 16 15 14 13 Specification]	А
REAR DOOR SWITCH RH A03FW Signal Name (Specification)	Suman Name (5 Su	В
Connector No. B22 Connector Name RE. Connector Type AXX H.S. H.S. 1 Ferminal Color No. of Wire 2 0	Connector No. D3 Connector Name D0 Connector Type TFI 12 11 10 24 29 22 14 B B B	D
13 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	edification]	Е
No. B218 Type ITK10FW-NS8 100 9 8 7 6 6 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Name WIRE TO WIRE TH40FW-CS15 State	F
Connector No. Bi Connector No. Connector Name W Connector Type Terminal Color No. Co	Connector No. Connector Name William Connector Type The	G H
PASSENGER pacification]	occification.]	I
BZ16 FROMT DOOR SWITCH (PASSENGER AU3FW AU3FW Signal Name [Specification]	NSGETO WIRE NSGETW-CS Signal Name [Specification]	J
SYSTEM Gonnettor No. E Connector Type A Connect	Connector No. Connector Name Connector Type No. Connector Type No. Of Wire 5 W W 6 L	К
	UGGAGE SIDE) ceiffeation]	INL M
INTERIOR ROOM LAMP CONTROL 20mector No. 2201 20mector Type TH80FN-CS16-TM4	UGGAGE ROOM LAMP (LUGGAGE SIDE) TROSFW Signal Name [Specification]	N
INTERIOR R	Connector No. B. Connector Name Lt. Connector Type Treminal Color No. of Wire I. L. Color II. Color III. Color I	0
	JCLW	/M1819GB

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< ECU DIAGNOSIS INFORMATION >

TOWER WINDOW MAIN SWITCH Type INSIGNY-CS 1 2 3 4	POWER W NS03FW-	STEP LAI	D13 FRONT C SWITCH) RK02FL-
No. of Wire Signal Name (Specification)	No. of Wire Signal Name [Specification]	No. of Wire Signal Name (Specification) 1 LG - 2 SB	of Wire
Connector No. D14 Connector Name REVAITEMAN. Connector Type RROZMGY ALS.	Connector No. 015 Connector Name RROWT DOOR LOCK ASSEMBLY (DRIVER SIDE) Connector Type E06FGY-RS H.S. (123456)	Connector No. D16 Connector Name MOOD LAMP(FR DOOR ARMREST LH) Connector Type TK02FGY LLS.	Connector No. D31
Color Signal Name [Specification]	Terminal Color Signal Name [Specification] Color Col	Terminal Color Signal Name [Specification]	Terminal Color No. of Wire Signal Name [Specification]

JCLWM1820GB

< ECU DIAGNOSIS INFORMATION >

D43 FRONT OUTSIDE HANDLE RH (REGUEST SWITCH) RROZEL-B	Signal Name (Specification)	D58 MOOD LAMP(RR DOOR ARMREST LH) TKØFGY	Signal Name [Specification]		A B
Commettor No. Commettor Name Commettor Type	Terminal Color No. of Wire 1 GG 2	Connector No. Connector Type	Terminal Color No. of Wire 1 Y Y 2 BR		D
SIDE)	ification]	8 9 10 17 18	ification]		Е
DAZ STEP LAMP (PASSENGER SIDE) TB02FW	Signal Name (Specification)	15 16 7	Signal Name (Specification)		F
r No. r Type	of Wire SB SR RR	Connector No. 051 Connector Name WIRE TO WIRE Connector Type TK10MW-NS8 1 2 3 4 5 1 1 1 1 1 1 1 1 1	Octor Color		G
Connecto Connecto H.S.	Terminal No.	Connecto Connecto H.S.	Terminal No. 6 6 7 8 8 9 9 9 9		Н
D38 FRONT POWER WINDOW SWITCH (PASSENGER SIDE.) NS16FW-CS 2 3 4 5 6 7 9 10 11 12 13 14 15 16	Signal Name [Specification]	D46 MOOD LAMP(FR DOOR ARMREST RH) TK02FGY 2 1	Signal Name [Specification]		I
SYSTEM Commettor No. Commettor Name Commettor Type MAS	Color Colo	Connector No. Connector Name Connector Type	Calor Calo		K
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		IDE IDE			INL
IN (PASSENGER SIDE	Signal Name (Specification)	D44 FRONT OUTSIDE HANDLE FRH (OUTSIDE KEY ANTENNA) RK02MGY	Signal Name [Specification]		M
ROOM D33 D53 D53 D53 D53 D54 D54					Ν
INTERIOR RC Connector Name DOO Connector Name DOO Connector Type THE H.S.	Color Color Color	Connector No. Connector Name Connector Type	Color Colo		0
				JCLWM1821GB	Р
					Γ

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< ECU DIAGNOSIS INFORMATION >

IR ROOM LAMP CONTROL			
Connector No. D59	Connector No. D71	Connector No. D78	Connector No. D79
Connector Name STEP LAMP (REAR LH)	Connector Name WIRE TO WIRE	Connector Name MOOD LAMP(RR DOOR ARMREST RH)	Connector Name STEP LAMP (REAR RH)
Connector Type TB02FW	Connector Type TK10MW-NS8	Connector Type TK02FGY	Connector Type TB02FW
番	香	匮	
H.S.	HS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	HS.	HS.
Terminal Color Signal Name [Specification] 1	Terminal Color Signal Name [Specification] No. Of Wire Signal Name [Specification] Color Of Name Of Name	Terminal Color Signal Name [Specification] Color	Terminal Color Signal Name [Specification] 1
	9 BR		
	ПаТ	П.	ПП
Connector Type TH24FW-NH	Connector Type TK03FW	Connector Type TK02MBR-P	Connector Type RKO2FGY
18	HS.	IS.	418 (12)
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
14 SB -	1 GR –	- ^	1 BR -
15 BR -	2 L – –	2 B =	2 R –
۷ >			
22 GR – – – – – – – – – – – – – – – – – –			

JCLWM1822GB

< ECU DIAGNOSIS INFORMATION >

E103 PEUSE BLOCK (J/B) PUSE BLOCK (J/B)	Signal Name (Specification)	M3 FUSE BLOCK (J. B.) NS12FW-CS 5C4C		A B
Connector No. E103 Connector Name FUSE BLOC Connector Type NS 16PW-DS H.S. TF 6F 5F 4F 116F 15F 14F 13F	Terminal Color No. 9F R R	Connector No. Connector Nane Connector Type Terminal Color No. of Wire 70 B		D
OWER SOOM)	reification)	reification		Е
E6 DISTRIBUTION MODULE ENGINE ROOM) THOSFW-NH 42 41 40 39 46 45 44 43	Signal Name (Specification)	NS10FW-CS 18 38 78 68 58 18 18 38 78 68 58 58 58 58 58 58 58 58 58 58 58 58 58		F
Connector No. E6 Connector Name IPDN Connector Type THO THO	Terminal Color No. of Wire 39 P P 41 41 B	Connector Name FUS		G
				Н
No. E5 PPDM E/R (INTELLICENT POWER IPDM E/R (INTELLICENT POWER INTELLICENT POWER	Signal Name (Specification)	M2 M2 2A 1A 7A6A5A4A Signal Name [Specification]		I
E5 DISTRIBUTION MODUL THZGFW-CS12-M4-1V	Signal I	8 BL		J
SYSTEM Connector Name PE Connector Type THE H.S.	Terminal Color No. of Wire 7 R 12 B 19 W	Connector No. MI Connector Name FU Connector Type NS No. of Wire AA SA V SA R		K
				INL
INTERIOR ROOM LAMP CONTROL Connector No. D122 Connector Name (BACK DOOR LOCK ASSEMBLY Connector Type INSBRW-CS H.S. The Control of the Contr	Signal Name (Specification)	TO WRE FW-CS16-TM4 Signal Name [Specification]		M
ROOM I BACK DOOR NS08FW-CS 4 5		M		Ν
INTERIOR Connector No. Connector Name Connector Type	Color Colo	Connector No. Connector Name Connector Type Connector Type No. of Wire 47 LS 48 P P 96 W		0
Con	<u>F</u>		ICLWM1823GB	
				Р

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< ECU DIAGNOSIS INFORMATION >

INTERIOR ROOM LAMP CONTROL SY	SYSTEM				
Connector No. M5	Connector No.	M6	Connector No.	M7	
Connector Name WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	82 L 83 P -
Connector Type TH40MW-CS15	Connector Type	TH80MW-CS16-TM4	Connector Type	TH80MW-CS16-TM4	┨
(1)	E S:		H.S.		
Terminal Oolor Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	
30 O	32 W	1 1	> 0	1 1	
) I	48 P	1	╀	1	
22 V -	м 96	1	72 B	t	
23 Y = -			73 W	1 1	
╀			H	1	
H			77 SB	1	
Н			Н	1	
+			79 R	1	
- 20 0			80 L	1	
Connector No M22	Gonnector No	M24	Connector No	M30	Connector No
Τ	Odinación No.	115.4	Τ		Т
-	Connector Name	DATA LINK CONNECTOR		FOOT LAMP (DRIVER SIDE)	. 1
Connector Type THIZEW-NH	Connector Type	ВИТВЕТ	Connector Type	CUZFW	Connector Type TRUSHBR
H.S. 7 8 9 10 11 12	H.S.	9 10 11 12 13 14 15 16 7 18	H.S.	0 2 0	H.S. 1 1 2 3 4 5 6 7 8
Terminal Color Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire
	7 GR	-	>	-	8
7 B GND			2 L	1	2 & R
¥9					0 8

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< ECU DIAGNOSIS INFORMATION >

M118 BCM (BODY CONTROL MODULE) M03FB-LC	Signal Name (Specification) BAT (F/L)	BR KEYLESS ENTRY RECEIVER POWER SUPPLY			A B C
Connector No. Connector Name Connector Type	Terminal Color No. of Wire	103 BR			D
	[reation]	MODULE)	ication] A ANTI- NIT- NIT- VER SIGNAL VER SIGNAL NIT		Е
MI17 WRE TO WIRE THROMW-CS16-TM4 THROMW-CS16-TM4 THROMW-CS16-TM4	Signal Name [Specification]	MIZZ BCM (BODY CONTROL MODULE) TH40FB-NH TH50FB-NH SISSES (BODY CONTROL MODULE) SISSES (BODY CONTROL MODULE) SISSES (BODY CONTROL MODULE)	Signal Name [Specification] PASSENGER DOOR ANT- PRASSENGER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- CAN-L CAN-L CAN-L CAN-L CAN-L CAN-H ACC RELAY CONT PASSENGER DOOR REQUEST SW DRIVER DOOR REQUEST SW DRIVER DOOR REQUEST SW		F
MITTH800	Color of Wire Color Colo	98 88 88 88 88 88 88 88 88 88 88 88 88 8	Color Of Wire SB		G
Connector No. Connector Type Connector Type H.S.	Terminal No. 60 60 61 62 63 64 65 65 87	Connector No. Connector Typ	Terminal No. 74. 75. 76. 77. 77. 83. 89. 90. 90. 90. 100. 100.		Н
106 KIOMW-NSB 4 5 6 7 8 9 10 13 14 15 16 17 18	Signal Name (Specification)	M121 BCM (BODY CONTROL MODULE) TH40FGY-NH TH60FGY-NH TH60FGH GLG H I I I I I I I I I I I I I I I I I I	Sigral Name [Specification] BACK DOOR ANT- BACK DOOR ANT- BACK DOOR SW RAR HIN DOOR SW REAR LH DOOR SW		ı
MIDG WIRE TO WIRE TO WIRE 3 4 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 4 1 5 1 1 5 1 5	Sign	M12 M13 M13	Sign BAOK DO		J
SYSTEM Connector No. Mill Connector Name Will ALS 1 2 3 11 12	Color Color No. of Wire No. of Wire No. of Wire 1	Connector No. Connector Type Connector Type IST STORES	Color No. Of Wire No.		K
			ارا AT SAVE)		INL
MP CONT	Signal Name [Specification] SIGNAL OUTPUT BATTERY	TROL MODULE) □ 8 9 10 □ 6 17 18 19	Signal Name (Specification) ROOM LAMP PWR SUPPLY(BAT STEP LAMP OUTPUT BAT (FUSE) GND ROOM LAMP TIMER		M
INTERIOR ROOM LAMP CONTROL Connector No. REMOTE KEYLESS ENTRY RECEIVER Connector Type ABOUTED ABOUTED TIES TIE	Signal N	MI19 BCM (BODY CONTROL MODULE) NSIGEW-CS 5 6 7 8 9 10 12 13 14 15 16 17 18 19	Signal Name STEP		Ν
INTERIOR Connector No. Connector Type Connector Type H.S.	Color Color No. of Wire B 2 GR 4 BR	nector No. nector Type	Color No. 10 Wire No. 11		0
.N. Lieb Lieb Lieb Lieb Lieb Lieb Lieb Lieb	Ľ III	Con Con	<u> </u>	JCLWM1825GB	
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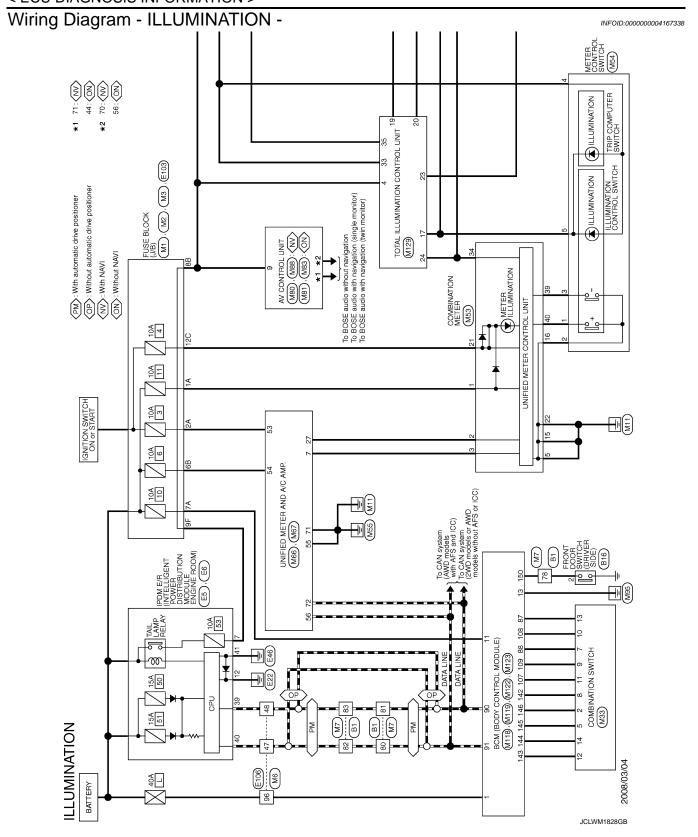
INTERIOR ROOM LAMP CONTROL S Connector No. M123	SYSTEM M124 M124	Connector No. M129	14 R	PERSONAL LAMP (RH)	
Γ,	<u>و</u>	١,	Ĥ	FOOT LAMP (RH)	
\neg	Т	П	17 LG	HSPL ILLUMINATIONS	
Connector Type TH40FG-NH	Connector Type TH40MW-CS15	Connector Type TH40FW-NH	+	MAP LAMP (DR)	
	4		19 ×	PUSH ENG START SWILED	
			21 R	BAT POWER SUPPLY	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	(H	GND	
101 (30) (20) (20) (20) (20) (20) (20) (20) (2	16 17 18 19 20 21 22 22 24 25 26 36 37 38 39 40 41 42 43 44 45 46 46 46 46 46 46	1 2 3 4 5 6 7 8 9 10 11 12 18 14 15 16 17 18 19 20	Н	DOOR SW (RR)	
140	Extraction of the form of the first participation of the first participatio	20 00 01 00 02	\dashv	MAP LAMP SW (DOOR)	
			+	MAP LAMP SW (ALL ON)	
L	L	L	+	ROOM LAMP TIMER	
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	29 GR	MOOD LAMP (ER ABMBEST LH)	
т	t	1	╁	MOOD LAMP (RR ARMREST LH)	
122 V ACC F/B	6 BR	4 L TAIL LAMP SIGNAL	33 W	HSPL POWER SUPPLY 3	
*	- 2	5 V ACC SIGNAL	L	HSPL POWER SUPPLY 2	
FG	13 B -	6 P BAT SAVER SIGNAL	35 V	HSPL POWER SUPPLY 1	
0		7 W IGN SIGNAL	36 L	FOOT LAMP (LH)	
B	32 Y -	8 G DOOR SW (AS)	39 B	PUDDLE LAMP (RH)	
150 GR DRIVER DOOR SW	Н	0	40 0	PUDDLE LAMP (LH)	
	4	+			
	35 V =	11 Y MOOD LAMP (RR ARMREST RH)			
	_				
	40 R -	13 G PERSONAL LAMP (LH)			
Connector No. M130	Connector No. R1	Connector No. R2	Connector No.	R11	
Connector Name FOOT LAMP (PASSENGER SIDE)	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name	WIRE TO WIRE	
Connector Type C02FW	Connector Type TK10FW-NS8	Connector Type TH24FW-NH	Connector Type	TH24MW-NH	
1	1	1	1		
唐	唐	唐	唐		
THS.	109876 5143211	/ -	−II⊢	1	
2 1	17 16 15 14 13	1211 10 9 8 7 6 5 4 3 2 1	13 14 1	3 4 5 6 7 8 9 10 11 12 15 16 17 18 19 20 21 22 23 24	
Terminal Color Signal Name [Specification]	-la	-a	lar	Signal Name [Specification]	
	ē	of Wire	ŏ		
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	- ·	- × × 11	ł	1	
	4 R –		18 G	-	
		19 R -	19 SB	ı	
		+	20 P	1	
	7	+	+	1	
	m :	22 R	22 R	1	
	-	23 BR =	23 BR	1	

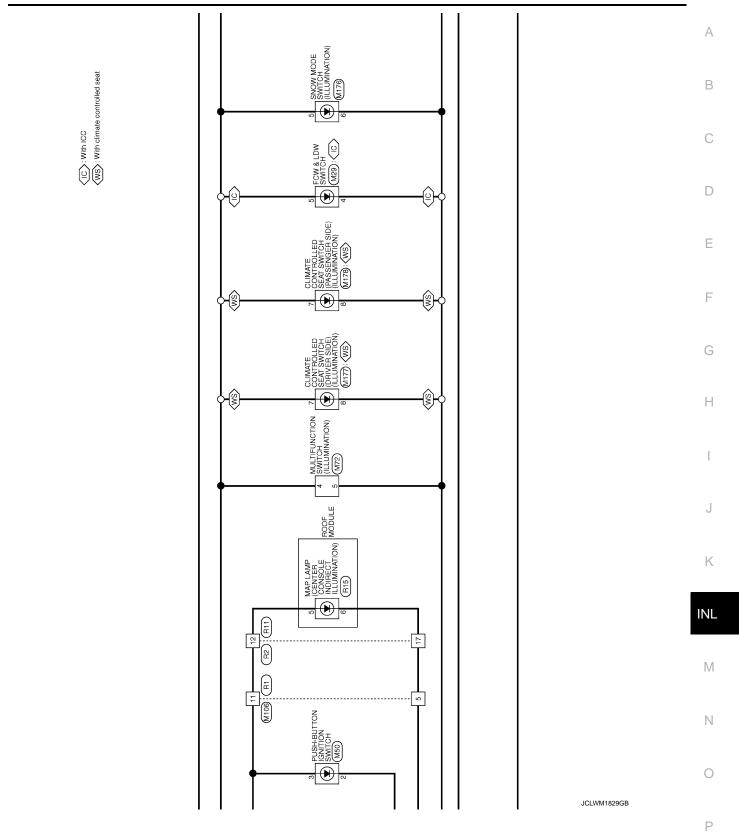
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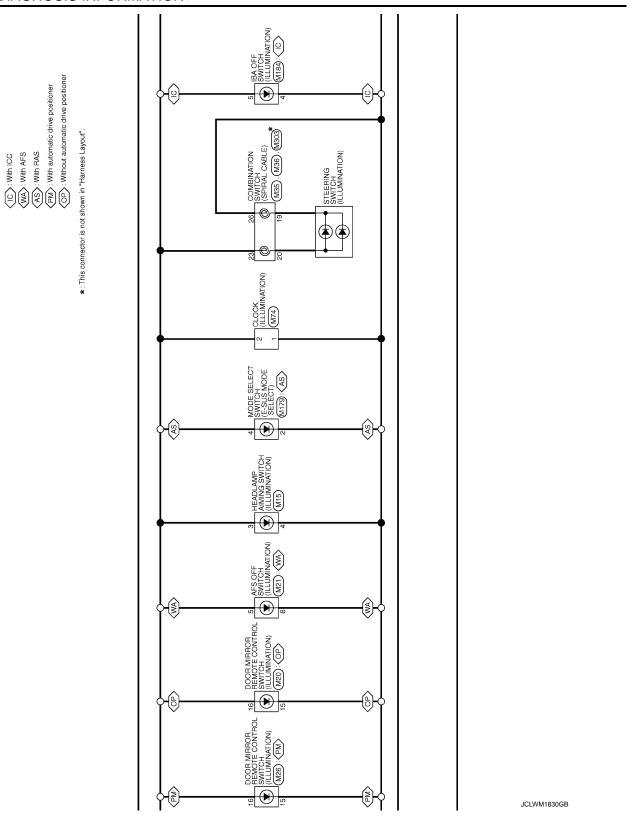
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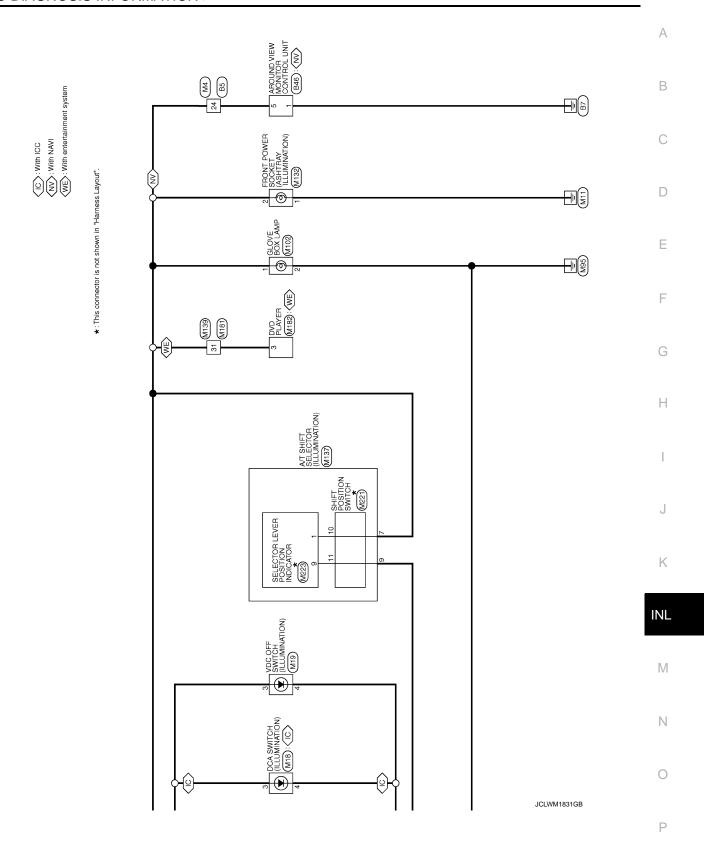
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3 4 4			В
Connector No. R15 Connector Name MAP LAMP Connector Type TK10FW H.S.			С
Connecto Connecto Connecto H.S.	Terminal No. 1		D
	pecification)		Е
FIRESONAL LAMP THOMPW-NH THOMPW-NH A 2 0 1	Signal Name (Specification)		F
ector No. ector Name ector Type	Terminal Color No. of Wire S S S S S S S S S		G
Comm			Н
R13 VANITY MIRROR LAMP RH MICAUZEW	Signal Name [Specification]		I
R13 VANITY MIRR MCA02FW			J
SYSTEM Connector No. R13 Connector Name VANITY M Connector Type MCAUZPW H.S.	Terminal Color No. of Wire 2 B Wire Color No. of Wire		K
			INL
INTERIOR ROOM LAMP CONTROL Connector No. R12 Connector Name WANITY MIRROR LAMP LH Connector Type MCAUZFW H.S.	Signal Name (Speeification)	'	M
ROOM L			Ν
INTERIOR F Connector Name v Connector Type h M.S.	Terminal Color No. of Wire 2		0
IN Conn		JCLWM1827GB	
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Connector No. B1	Connector No. B5	Connector No. B16	Connector No. B46
Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Name AROUND VIEW MONITOR CONTROL UNIT
Connector Type TH80FW-CS16-TM4	Connector Type TH40MW-NH	Connector Type A03FW	Connector Type TH40FW-NH
- n n v v v v n n n 2 v v v v n n n 2 v v v v	11.5. 1 2 3 4 5 6 7 7 8 9 90 11 22 33 44 55 96 77 88 99 90 11 22 33 44 55 96 77 88 99 90 11 22 33 44 55 96 77 88 99 90 11 22 33 44 55 96 77 88 99 90 10 10 20 33 44 55 96 77 98 99 40	SH SH	14.5 2.4 6 6 10 10 12 14 16 16 10 22 14 16 18 18 18 18 18 18 18 18 18 18 18 18 18
Terminal Color Color Signal Name [Specification] Color Color	Terminal Color Signal Name [Specification] No of Wire 24 R -	Terminal Golor Signal Name [Specification] 2 GR GR	Terminal Color Signal Name Specification Terminal Color Signal Name Specification Terminal Color Color
Connector No. E5 Connector Name IPDM E.R (INTELLIGENT POWER Connector Type THZ0FW-CS12-M4-IV THZ0FW-CS12-M4-IV THZ0FW-CS12-M4-IV THZ0FW-CS12-M4-IV THZ0FW-CS12-M4-IV	Connector No. ES Connector Name DISTRIBUTION MODULE ENGINE ROOM) Connector Type THOSPW-NN HS 42 41 40 39 46 45 44 42	Connector No. E103 Connector Name FUSE BLOCK (J/B) Connector Type INS16PW-CS ALS TF 6F 5F 4F 3F 2F 1F 16F 15F 14F 13F 12F 11F 10F 9F 8F	Connector No. E106 Connector Name WIRE TO WIRE Connector Type TH80FW-CS16-TM4 H.S. R. T.
Terminal Color Signal Name [Specification] 7 R - 12 B	Terminal Color Signal Name [Specification] 100	Terminal Golor Signal Name [Specification] No. 9F R	Terminal Color Signal Name (Specification) A7 C Wire S C C C C C C C C C

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12 22 20 20 4 20	kien)	tion)		А
28 28 27 28 28 28 29 28 29 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Signal Name (Specification)	Signal Name [Specification]		В
or No. M4 Type TH40FW-NH TH40FW-NH TH40FW-NH TH40FW-NH TH40FW-NH	P P Wire	MIB DOA SWI		С
Connector No. Connector Name Connector Type H.S. Connector Type Co	Terminal No. 24 2.4	Connector No. Connector Type Connector Type No. of Will 3 W 4 W		D
20 20 20 20 20 20 20 20 20 20 20 20 20 2	eoification)	'CH		Е
(J/B)	Signal Name (Specification)	M15 A04FW A04FW Signal Name [Specification]		F
or No.	al Color of Wire	No. Type of Wire R R R R		G
Connecte	Terminal No. 12C	Comecto Comecto Comecto No. No. 3 3 3 4 4		Н
B) 228 18 368 18	Signal Name [Specification]	WIRE CS16-TM4 CS16-TM4 CS16-TM4 Signal Name (Specification)		I
MS ELOCK (J/B) NSIGFW-CS 4B 3B 2B 1B 10B 9B 8B 7B 6B 5B	Signal N	WIRE TO WIRE THBOMW-CS16-TM4		J
Connector No. Connector Name Connector Type	Color	Connector No. Connector Name Connector Type No. On G Wire 18 81 P 83		K
				INL
(B)	Signal Name (Specification)	WIRE CSI 6-TM4 CSI 6-TM4 CSI 6-T		M
ATION MI FUSE BLOCK (J/B) NISOFFW-MZ 3A 3A 3A 3A 3A 3A 3A 3A		MRE TO WIRE TO STATE OF STATE		Ν
ILLUMINATION Connector No. MI Connector Name FUSE B Connector Type NISOBRY H.S. 376 874	Color Colo	Connector No. Connector Name Connector Type Connector Type A1 Color A3 Color A6 Color B6 W		0
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< ECU DIAGNOSIS INFORMATION >

Connector No. M26 Connector Name Connector Name Connector Name Connector Name Connector Type TK16FBR Connector Type TK16FBR TK16FBR	Terminal Color Signal Name [Specification] No. Of Wire Signal Name [Specification]	Connector No. M36 Connector No. M36 Connector Name Connector Type TK08EGY-1V TK08EGY-1V TK08EGY-1V TK08EGY-1V TK08E	Terminal Color Signal Name [Specification] 26 B B
Connector No. M21 Connector Name AFS OFF SWTCH Connector Type TK0BFW-IV AH.S. 5 F F SWTCH Connector Type TK0BFW-IV	Terminal Color Signal Name [Specification]	Connector No. M35 Connector Name COMBINATION SWITCH (SPIRAL CABLE) Connector Type TK08FY-EX-1V TMS 21 22 23 28 29 30	Terminal Color No. of Wire 23 R
Connector No. M20 Connector Name Source restors coarrea Connector Type TK18FW TL 2 3 4	Terminal Codor Signal Name [Specification] 15 0 16 W 16 W 17 17 17 18 W	Connector No. M33 Connector Type TH16PW-NH Connector Type TH16PW-NH T 2 3 10 11 12 13 14	Terminal Color Signal Name [Specification] Color Signal Name [Specification] Signal
ILLUMINATION Connector No. M19 Connector Name VDC OFF SWITCH Connector Type TK08FGY M.S. LL.S. EG 5 4 3 2 1	Color No. of Wire Signal Name [Specification] 3 W	Connector No. M29 Connector Name FCW & LDW SWITCH Connector Type TK08FGY M.S. T 2 3 4 5 6 7 8	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 4 R

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Connector No. M66 Connector Name UNIFED METER AND A/C AMP. Connector Type TH40FW-NH TH2 A S 6 7 8 9 10 11 10 10 10 10 10 10 10 10 10 10 10	Terminal Color Signal Mane (Specification) No. of Wire Signal Mane (Specification) 27 CR COMM (METRE-SMR) COM	Connector No. M80 Connector Name AV CONTROL UNIT (WITH NAVI) Connector Type THI SFW-CS2 M.S. THI SFW-CS2 THI 2 3 4 5 6 7 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Terminal Color No. of Wire 9 R ILLUMINATION		
Connector No. M54 Connector Name METER CONTROL SWITCH Connector Type THIZMW-NH H.S. 1 2 3 4 5 6 1 1 1 2 1 1 1 2 1 1	Terminal Color No. of Vire Signal Name [Specification] 1 0 0 0 0 0 0 0 0 0	Connector No. M74 Connector Name GLOCK Connector Type TH04FW-NH M.S. 11234	Terminal Color No. of Wire Signal Name (Specification) 1 B ILLUMINATION (-) 2 R ILLUMINATION (+)		
Connector No. MISS Connector Name COMBINATION METER Connector Type TH40FW-NH H.S. T 2 4 5 7 8 9 9 1 1 1 1 1 1 1 2 2 T 2 3 4 5 6 7 8 9 9 1 1 1 1 1 1 1 2 2 T 2 3 4 5 6 7 8 9 9 1 1 1 1 1 1 1 2 3 T 2 3 4 5 6 7 8 9 9 1 1 1 1 1 1 1 3 3 3	Terminal Color Signal Name Specification 1	Connector No. M72 Connector Name MULTFUNCTION SWITCH Connector Type THISFW-NH M.S. 2 4 6 8 10 12 14 16 T 3 5 7 9 11 13 15	Terminal Color Signal Name [Specification] 4 R ILL CONT 1LL CONT		
ILLUMINATION Connector No. Connector Name PUSH-BUTTON IGNITION SWITCH Connector Type TK08FBR 1.5 1	Terminal Color Signal Name [Specification] No. Of Wire Signal Name [Specification] 2 R	Moranector Name WINTED METER AND A/C AMP.	Terminal Codor No. of Wire Signal Name [Specification] 53 G IGN 54 P EAT 55 B CAND 72 P CANH.	JCLWM1835GB	11

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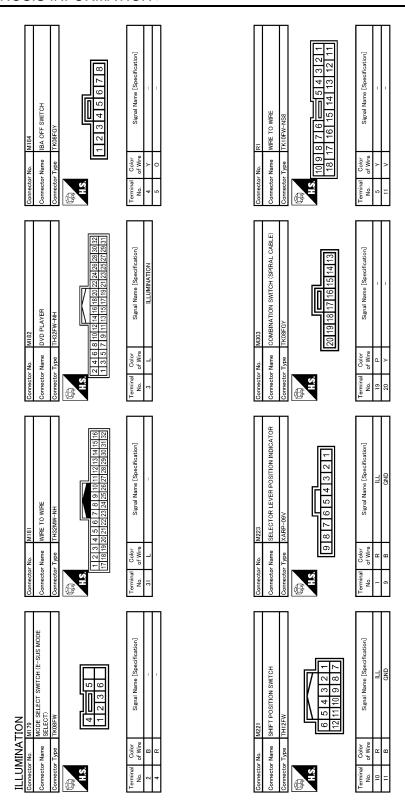
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NATION CONTROL UNIT Connector Name FRONT POWER SOCKET Connector Type RISOJEN-CS Connector Type RISOJEN-CS Connector Name Specification Name Name Specification Name Name	E F
Signal Name [Specification] Signal Name [Specification] TAIL LAMP SIGNAL HSPL ILLUMINATIONS PUSH ENG START SW LED GND ILL CONT INPUT HSPL POWER SUPPLY I HSPL POWER SUPPLY I HSPL POWER SUPPLY I NODE SWITCH Signal Name [Specification]	G
	J K
LLLUMINATION Connector Name BCM (BODY CONTROL MODULE) Connector Name BCM (BODY CONTROL MODULE) Connector Type TH40FG-NH	M N
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	R15	MAP LAMP	TK10FW	1 2 8 9 10	Signal Name [Specification]	TED+	LED-
	Connector No.	Connector Name MAP LAMP	Connector Type	H.S.	Terminal Color No. of Wire	۸ و	9
	П		П				П
	R11	Connector Name WIRE TO WIRE	TH24MW-NH	3 4 5 6 7 8 9 1011112 5 16 17 18 19 20 21 22 23 24	Signal Name [Specification]	1	1
	Ш	or Name	Connector Type	13 14 1	Ferminal Color No. of Wire	^	>
	Connector No.	Connect	Connect	母 H.S.	Termina No.	12	17
			П		_		П
NATION	R2	Connector Name WIRE TO WIRE	TH24FW-NH	11109 8 7 6 5 4 3 2 1	Signal Name [Specification]	1	1
₹	П	Name	Type	12 11 1 24 23 2	Color of Wire	>	>
	Connector No.	nnector	Connector Type	H.S.	Ferminal Color No. of Wire	12	17

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< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
FK WIFEK HI	Front wiper switch HI	On
ED WIDED I OW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
ED MACHED OM	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDED CTOD	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
	Other than rear wiper switch ON	Off
RR WIPER ON	Rear wiper switch ON	On
DD 14//DED IN IT	Other than rear wiper switch INT	Off
RR WIPER INT	Rear wiper switch INT	On
	Rear washer switch OFF	Off
RR WASHER SW	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL ALAD OVA	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAMB OW 4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
DA COINIO OM	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIGHT CIA	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED 500 2'''	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off

Monitor Item	Condition	Value/Status
	Driver door closed	Off
OOK GVV-DK	Driver door opened	On
OOD SW AS	Passenger door closed	Off
OOK 3W-A3	Passenger door opened	On
OOD CW DD	Rear RH door closed	Off
JOOR SW-RR	Rear RH door opened	On
Driver door closed Driver door opened Passenger door closed Passenger door opened Rear RH door closed Rear RH door closed Rear RH door opened Rear LH door opened Rear LH door opened OR SW-RL Rear LH door opened Back door closed Back door opened OR SW-BK Concept Back door opened Diver door lock switch LOCK Down door lock switch LOCK Down door lock switch LOCK Other than power door lock switch UNLOCK Power door lock switch UNLOCK Other than driver door key cylinder LOCK position Driver door key cylinder LOCK position Oriver door key cylinder UNLOCK Other than driver door key cylinder UNLOCK Oth	Off	
OOR SW-RL	Rear LH door opened	On
200D 01M DIC	Back door closed	Off
OOR SW-BK	Back door opened	On
NDL 1 0 0 1 0 1 1 1	Other than power door lock switch LOCK	Off
DL LOCK SW	Power door lock switch LOCK	On
	Other than power door lock switch UNLOCK	Off
DL UNLOCK SW	Power door lock switch UNLOCK	On
EV 0V(11/ 0)::	Other than driver door key cylinder LOCK position	Off
EY CYL LK-SW	Driver door key cylinder LOCK position	On
	Other than driver door key cylinder UNLOCK position	Off
EY CYL UN-SW	Driver door key cylinder UNLOCK position	On
EY CYL SW-TR	1101	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
EAR DEF SW	1101	Off
R CANCEL SW		Off
D/DD ODEN OW	Back door opener switch OFF	Off
R/BD OPEN SW	While the back door opener switch is turned ON	On
RNK/HAT MNTR		Off
KE LOOK	LOCK button of the Intelligent Key is not pressed	Off
NE-LUUK	LOCK button of the Intelligent Key is pressed	On
LE LINII COLL	UNLOCK button of the Intelligent Key is not pressed	Off
KE-UNLOCK	UNLOCK button of the Intelligent Key is pressed	On
KE-TR/BD		Off
NAT DANI'S	PANIC button of the Intelligent Key is not pressed	Off
KE-PANIC	PANIC button of the Intelligent Key is pressed	On
	UNLOCK button of the Intelligent Key is not pressed	Off
KE-P/W OPEN	UNLOCK button of the Intelligent Key is pressed and held	On
KE-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
	Bright outside of the vehicle	Close to 5 V
PTICAL SENSOR	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
NEQ 3W -DIX	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
REQ 3W -BD/TR	Back door request switch is pressed	On
DHEH EW	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
ION DIVO E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
CLUCH SW	NOTE: The item is indicated, but not monitored.	Off
DDAKE OM 4	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	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 (OANOL OW)	Selector lever in P position	Off
DETE/CANCL SW	Selector lever in any position other than P	On
OFT DAYAL OW	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
0.11.0.014	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
0.11.11.11.00.11	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
	Driver door is unlocked	Off
UNLK SEN -DR	Driver door is locked	On
	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
	Selector lever in any position other than P and N	Off
SFT PN -IPDM	Selector lever in P or N position	On
	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

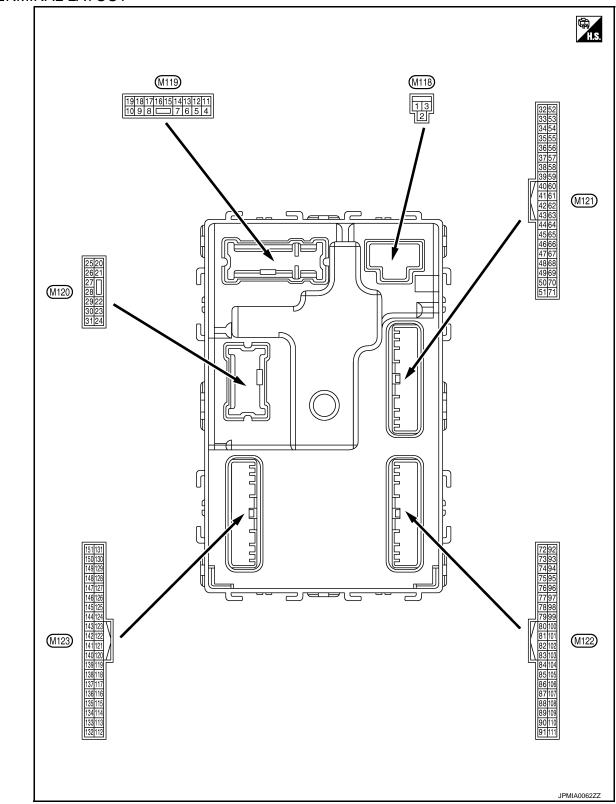
< ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
	Engine stopped	Stop
NGINE STATE	While the engine stalls	Stall
LINGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
3/L LOCK-IF DIVI	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
3/L UNLK-IF DIVI	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
5/L RELAT-REQ	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	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
RWI LNO STRI	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
KET 3W -3LOT	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
CONFIDM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
CONFIRM ID2	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done

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Monitor Item	Monitor Item Condition			
CONFIDMIDA	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet		
CONFIRM ID1	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		
1P 4	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		
1173	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		
IP 2	The ID of second Intelligent Key is registered to BCM	Done		
TD 4	The ID of first Intelligent Key is not registered to BCM	Yet		
TP 1	The ID of first Intelligent Key is registered to BCM	Done		

TERMINAL LAYOUT



PHYSICAL VALUES

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Terminal No. Description					Value								
	e color) –	Signal name	Input/ Output	Condition		(Approx.)							
1 (W)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage							
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	12 V							
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON	ı	12 V							
		Interior room lamp			battery saver is activated. oom lamp power supply)	0 V							
4 (P)	Ground	power supply (Battery saver signal)	Output	ed.	battery saver is not activat- or room lamp power supply)	12 V							
5	01	Passenger door UN-	0 1 1	D	UNLOCK (Actuator is activated)	12 V							
(V)		LOCK	Output	t Passenger door	Other than UNLOCK (Actuator is not activated)	0 V							
7	0	0	0 1 1	Ot and I among	ON	0 V							
(Y)	Ground	Step lamp	Output	Step lamp	OFF	12 V							
8	8 (V) Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V							
(V)					Other than LOCK (Actuator is not activated)	0 V							
9	0	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Driver door, fuel lid	Outrout	Driver door, fuel	UNLOCK (Actuator is activated)	12 V
(G)		UNLOCK	Output	lid	Other than UNLOCK (Actuator is not activated)	0 V							
10	Ground	Rear RH door and	Output	Output Rear RH door and rear LH door	UNLOCK (Actuator is activated)	12 V							
(BR)	Ground	rear LH door UN- LOCK	Output		Other than UNLOCK (Actuator is not activated)	0 V							
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage							
13 (B)	Ground	Ground	_	Ignition switch ON		0 V							
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage							
(Y)		, , , , , , , , , , , , , , , , , , ,		.5	ACC or ON	0 V							
					Turn signal switch OFF	0 V							
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s							
						6.5 V							

Terminal No. (Wire color)		Description				Value	
+ (VVir	e color)	Signal name	Input/ Output		Condition	(Approx.)	
			•		Turn signal switch OFF	0 V	
18 (O)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
				Other than under	condition	5.0 V	
19 (SB)	Ground	Room lamp timer	Output	(Door is unlocke	mp timer is activated. ed. etc) unction is activated.	0 V	
				_	Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0	
					Turn signal switch OFF	6.5 V 0 V	
25 (G)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	
26	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)	0 V	
(G)	Giodila	IVGal Mibel	Output	iteal wipel	ON (Operated)	12 V	
34	Ground	Luggage room anten-	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(SB)	Sibulia	na (–)	Capat	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

	inal No.	Description		0 155		Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
35	Ground	Luggage room anten-	Qutout	Output Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Glound	na (+)	Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	ound Back door antenna (–	Output	When the back door opener re- quest switch is operated with ig- nition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Clound				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
39	Ground	Back door antenna	Output	When the back door opener re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Giodid	ound (+)	Sulput	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V 0 V

Terminal No. (Wire color)		Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
48	Ground	Back door opener	Output	Back door opener	Not pressed	12 V	
(W)	Giodila	switch operation	Output	switch	Pressed	0 V	
52	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position	12 V	
(LG)	Ground	Clarter relay control	Output	ON	When selector lever is not in P or N position	0 V	
					ON (Pressed)	0 V	
61 (W)	Ground	Back door opener request switch	Input	Back door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V	
64		Intelligent Key warn- ing buzzer (Engine room)	Output	Intelligent Key warning buzzer (Engine room)	Sounding	0 V	
64 (L)	Ground				Not sounding	12 V	
65 (O)	Ground	Rear wiper stop position	Input	Rear wiper	In stop position	(V) 15 10 5 0 10 ms JPMIA0016GB	
					Not in stop position	1.0 V	
66					OFF (Door close)	12 V	
(LG)	Ground	Back door switch	Input	Back door switch	ON (Door open)	0 V	
					Pressed	0 V	
67 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	(V) ₁₅ 10 5 0 → 10ms JPMIA0594GB	
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (Door close)	8.5 - 9.0 V	
						ON (Door open)	JPMIA0594GB 8.5 - 9.0 V 0 V

	inal No. e color)	Description		O an altition		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (Door close)	(V) ₁₅ 10 5 0 *** 10ms JPMIA0594GB 8.5 - 9.0 V	
					ON (Door open)	0 V	
72	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
73	Ground	Room antenna 2 (+) (Center console) Out		Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	
(G)			Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

	inal No.	Description				Value	
(Wir	e color)	Signal name	Input/ Output			(Approx.)	
74		Passenger door an-		When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(SB)	Ground	tenna (-)	Output	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(BR)	Ground	tenna (+)	Cuiput	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
76	Ground	Driver door antenna	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)		(-)	Capat	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No. e color)	Description		Condition		Value	
+	-	Signal name	Input/ Output		Condition	(Approx.)	
77	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(LG)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
78		Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(Y)	Ground	(Instrument panel)	Japan	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB	
79	Ground	Room antenna 1 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	
(BR)	Ground	(Instrument panel) Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB		

< ECU DIAGNOSIS INFORMATION >

Terminal No.		Description				Value	
+	e color) –	Signal name	Input/ Output	Condition		(Approx.)	
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	Ground	Ignition relay [Fuse	Output	Ignition switch	OFF or ACC	0 V	
(P)	Giodila	block (J/B)] control	Output	ignition switch	ON	12 V	
83	Ground	Remote keyless entry receiver communica-		During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(GR)	3.54.10	tion	Output	When operating e	either button on the Intelligent	(V) 15 10 5 0 1 ms JMKIA0065GB	

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Terminal No. (Wire color)		Description				Value	
(Wir	e color)	Signal name Input/ Output		Condition		(Approx.)	
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	
87	Ground	Combination switch Input	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	
(BR)					Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms 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	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V		

	inal No.	Description				Value	А
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B C
					Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0037GB	Н
					Rear washer switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	J K
					Any of the conditions below with all switches OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB	M
89	Ground	Push-button ignition	Input	Push-button ignition switch (Push	Pressed	0 V	0
(SB)	Ciduid	switch (Push switch)		switch)	Not pressed	12 V	_
90 (P)	Ground	CAN-L	Input/ Output		_	_	Р
91 (L)	Ground	CAN-H	Input/ Output		_	<u> </u>	

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					OFF	12 V
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 JPMIA0015GB
					ON	6.5 V 0 V
93	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(V)		·	·		ON or ACC	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)	Ground	ACC relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	IIIput	Steering lock	UNLOCK status	12 V
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	12 V
(P)		tion No. 2			UNLOCK status	0 V
99	Ground	Selector lever P posi-	Input	Selector lever	P position	0 V
(R)		tion switch			Any position other than P	12 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed) OFF (Not pressed)	0 V (V) 15 10 10 ms JPMIA0016GB 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(O)	Ground	lay control	Output	iginuon switch	ON	12 V
103 (BR)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF		12 V

	inal No.	Description				Value
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V 0 V
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

	inal No.	Description	name Input/ Output			Value
+	e color)	Signal name			Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB
					Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0040GB
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

	inal No.	Description				Value	Λ
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	В С
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	E F
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	J K
					Front wiper switch HI	5 0	M N
					ON		0
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Ρ

	inal No.	Description				Val
+ (Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)
					LOCK status	12 V
111 (GR)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 5 0 JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (GR)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 → -10ms JPMIA0156GB 8.7 V
113	One and	Ontirel	la a cat	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Ground	Optical sensor	Input	ŎN	When dark outside of the vehicle	Close to 0 V
116 (BR)	Ground	Stop lamp switch 1	Input		_	Battery voltage
		Stop lamp switch 2		Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	- Input	Otop iamp ownor	ON (Brake pedal is depressed)	Battery voltage
(P)	Cround	Stop lamp switch 2	mpat		OFF (Brake pedal is not de- brake hold relay OFF	0 V
		(With ICC)		Stop lamp switch (pressed) or ICC b	ON (Brake pedal is de- rake 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)	(V) ₁₅ 10 5 0
					UNLOCK status	8.5 - 9.0 V 0 V
				When the Intellige	(Unlock switch sensor ON) nt Key is inserted into key slot	12 V
121 (BR)	Ground	Key slot switch	Input	_	nt Key is not inserted into key	0 V
122	Ground	ACC feedback	Input	Ignition switch	OFF	0 V
(V)	Cround		put	.g	ACC or ON	Battery voltage

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
123	0	ION (conflicted		1	OFF or ACC	0 V
(W)	Ground	IGN feedback	Input	Ignition switch	ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	(V) ₁₅ 10 5 0 ********************************
					ON (Door opene)	0 V
132 (O)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch OFF	F or ACC	12 V
134	0	LOCK := di==4 · · l · · ·	O. a.	LOCK indicator	OFF	Battery voltage
(GR)	Ground	LOCK indicator lamp	Output	lamp	ON	0 V
137 (B)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
(Y)	Cround	Gerisor power supply	Output	ignition switch	ACC or ON	5.0 V
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(R)		position	1		Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V) 15
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(O)	C. Guild	OUTPUT 5	Carput	(Wiper intermittent dial 4)	Turn signal switch RH	0 2 ms JPMIA0031GB 10.7 V

	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
143	Ground	Combination switch	Output	Combination	Rear wiper switch INT (Wiper intermittent dial 4)	(V) 15 10 5
(P)	Ground	OUTPUT 1	Output	switch	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	5 0 JPMIA0032GB 10.7 V
					All switches OFF (Wiper intermittent dial 4)	0 V
		und Combination switch OUTPUT 2	Output		Front washer switch ON (Wiper intermittent dial 4)	
144				Combination	Rear wiper switch ON (Wiper intermittent dial 4)	(V) 15 10
(G)				switch	Rear washer switch ON (Wiper intermittent dial 4)	5
			Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	2 ms JPMIA0033GB		
-					All switches OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V)
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
						10.7 V
					All switches OFF	0 V
					Front fog lamp switch ON	(V)
		0		Combination	Lighting switch 2ND	15 10 5 0
146 (SB)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit-	Lighting switch PASS	
(32)		OUTPUT 4	Carput	(Wiper intermittent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB

< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) ₁₅ 10 5 0
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)	Ground	ger relay control	Cutput	fogger	Not activated	Battery voltage

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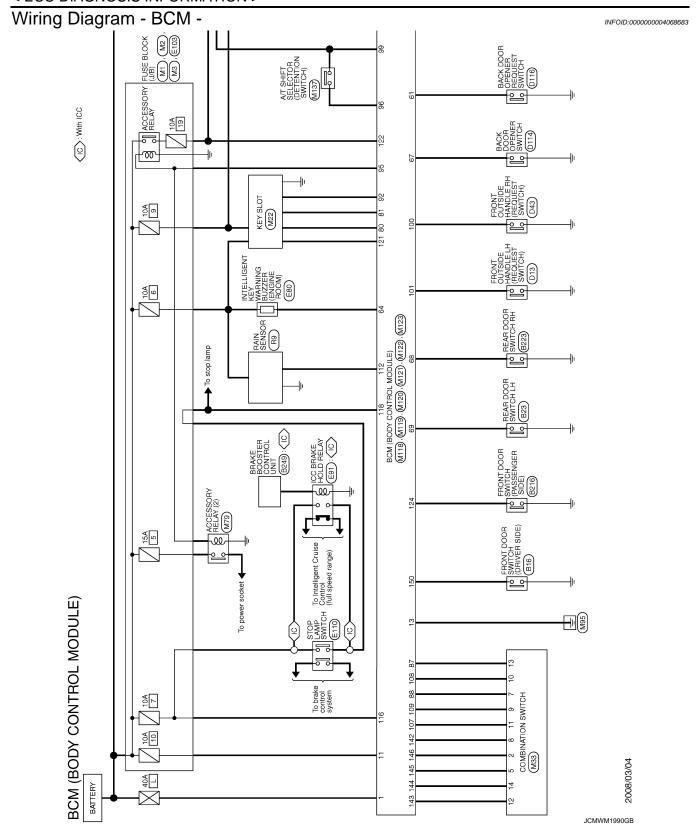
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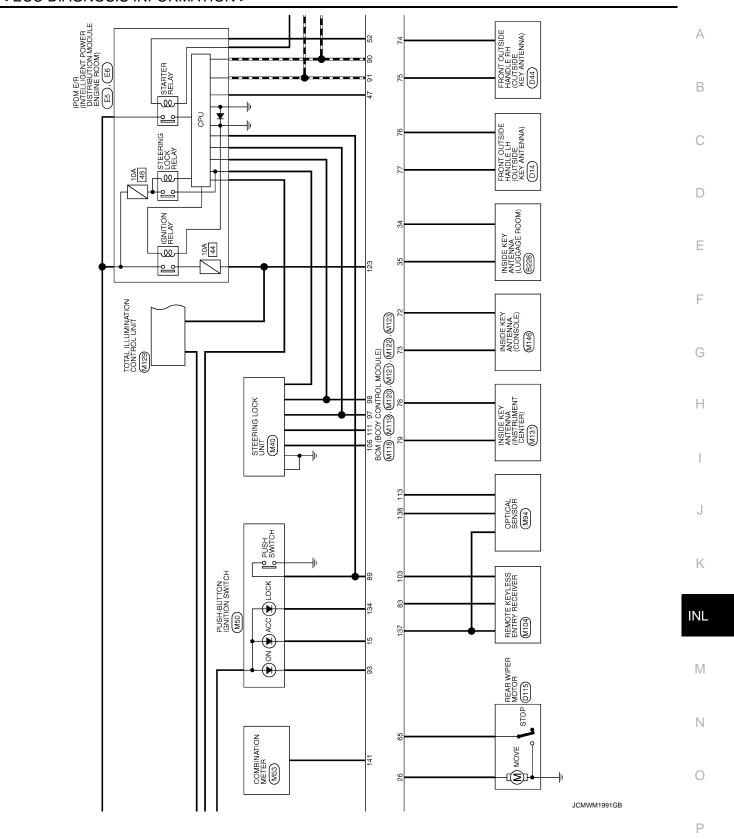
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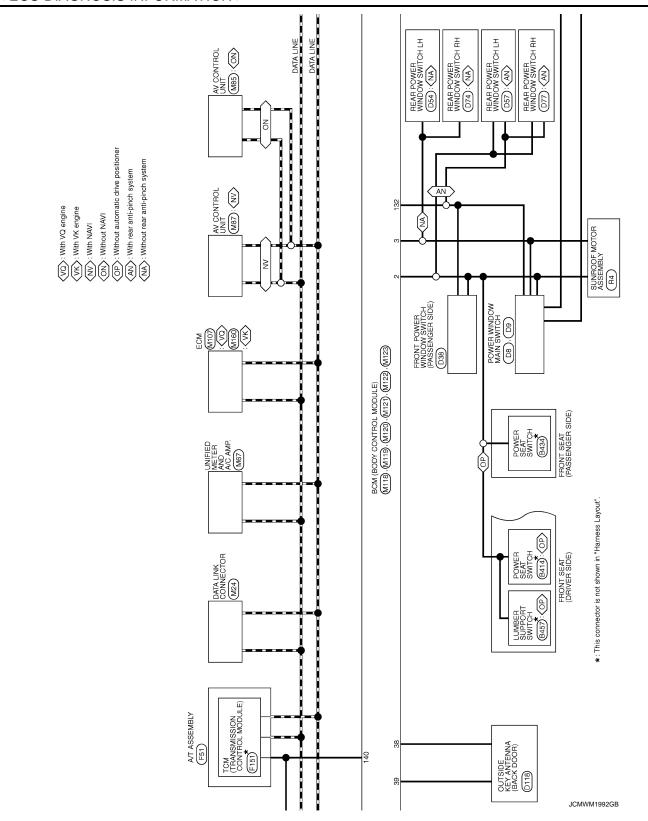
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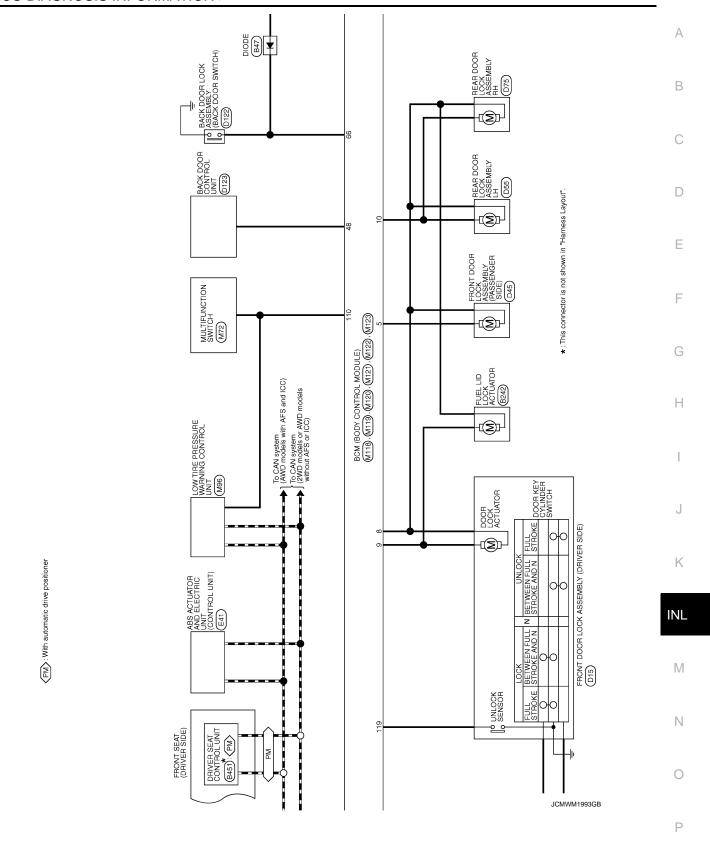
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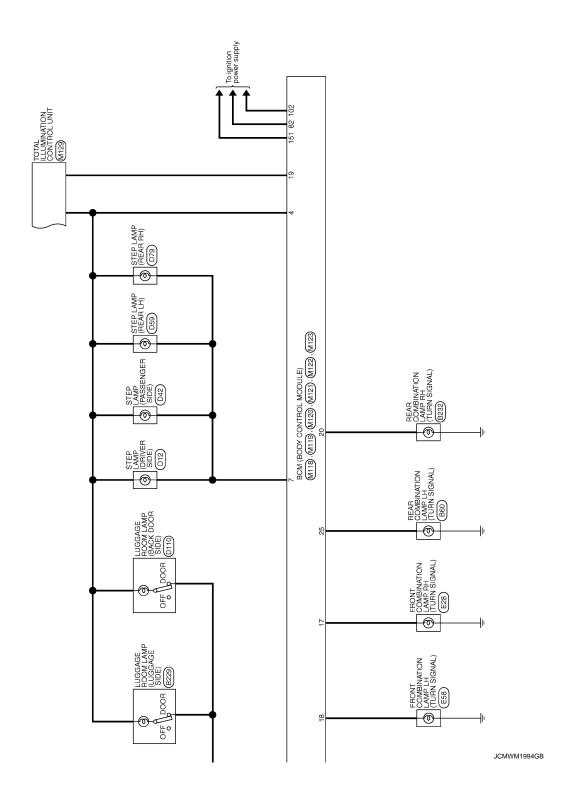
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< ECU DIAGNOSIS INFORMATION >

ROOM LAMP TIMER					АВ
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	Pifreation] DOK OUTPUT TRUIT T	ONER SW RESW RESW			Е
MX119 BCM (BODY CONTROL MODULE) NSIGEW-CS 4 5 6 7 8 9 10	Signal Name [Specification] INT ROOM LAMP PWR SUPPLY(BAT SAV PASSENGER DOOR UNLOCK OUTPUT ALL DOOR FUEL LID LOKK OUTPUT REAR DOOR LULC OUTPUT ACC IND TURN SIGNAL RH (FRONT) TURN SIGNAL LH (FRONT)	BACK DOOR OPENER SW FEAR RH DOOR SW FEAR LH DOOR SW			F
Connector No. Connector Name Connector Type H.S.	Color Colo	67 68 69 R R R R			G H
POL MODULE)	Signal Name (Specification) BAT (F/L) POWER WINDOW POWER SUPPL ((RAP)) POWER WINDOW POWER SUPPL ((RAP))	AOL MODULE)	Signal Name [Specification] LUGGAGE ROOM ANT- LUGGAGE ROOM ANT- BACK DOOR ANT- IGN RELAY (DOM EAY IGN RELAY (DOM EAY BACK DOOR OPENER SW OPERATION STAFFIER RELAY CONT BACK DOOR OPENER REQUEST SW I-KEY WARN BUZZER (ENG ROOM) REAR WIDER STOP POSITION REAR WIDER STOP POSITION		I
MITS MOSFB-LC MOSFB-LC 1 3	 	or No. M121 or Name BCM (BODY CONTROL MODULE) or Type TH40FGY-14H Signated At lets at at at at at at at a signal			J
Connector No. Connector Name Connector Type	Color Color Color No. O' Wire V	Connector No. Connector Name Connector Type Special Street	Terminal Color No. of Wire 24 SB 24 SB 25		INL
BCM (BODY CONTROL MODULE) Connector No. M33 Connector Name COMBINATION SWITCH COMBINATION SWITCH CONNECTOR THIFFW-NH TH.S. THEFW-NH TH.S	Signal Mane (Speoffcation) OUTPUT 4 OUTPUT 3 INPUT 5 INPUT 4 INPUT 1 INPUT 1 INPUT 1 INPUT 1 INPUT 1 INPUT 1	MI20 BCM (BODY CONTROL MODULE) NS12PW-CS 20 21 22 23 24 25 26 27 28 29 30 31	Signal Name [Specification] TURN SIGNAL RH (REAR) TURN SIGNAL LH (REAR) REAR WIPER OUTPUT		M
SODY CONTROL M33 COMBINATION SWITCH THIEFW-NH 1 2 3 4 4 4 7 8 9 1011112	Color of Wire Signs S. S. Color of Wire S. S. C. Color C.		Oolor Signa Of Wire V V TUR G G R R		N
BCM (BO Connector No. Connector Name Connector Name Connector Type	Terminal Of No. of 1	Connector No Connector Name Connector Type H.S.	Terminal O of 20 25 25 26 26	JCMWM1995GB	0
					Р

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137	В	RECEIVER/SENSOR GND
138	λ	SENSOR POWER SUPPLY
140	Я	SHIFT N/P
141	5	SECURITY INDICATOR OUTPUT
142	0	COMBI SW OUTPUT 5
143	Ь	COMBI SW OUTPUT 1
144	5	COMBI SW OUTPUT 2
145	7	COMBI SW OUTPUT 3
146	as	COMBI SW OUTPUT 4
150	an S	DRIVER DOOR SW
151	5	REAR WINDOW DEFOGGER RELAY CONT

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

Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPLICAL SENSOR	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SLOT SW	ACC F/B	IGN F/B	PASSENGER DOOR SW	POWER WINDOW SW COMM	LOCK IND
Color of Wire	GR	Ь	BR	Ь	SB	BR	^	W	PC	0	GR
Terminal No.	112	113	116	118	119	121	122	123	124	132	134

KEYLESS ENTRY RECEIVER SIGNAL	COMBI SW INPUT 5	COMBI SW INPUT 3	PUSH SW	CAN-L	CAN-H	KEY SLOT ILL	ONI NO	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	S/L CONDITION 2	SHIFT P	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KEYLESS ENTRY RECEIVER POWER SUPPLY	S/L UNIT POWER SUPPLY	COMBI SW INPUT 1	COMBI SW INPUT 4	COMBI SW INPUT 2	HAZARD SW	S/L UNIT COMM
GR	BR	۸	SB	Ь	-	ΡΠ	۸	0	GR	-	۵	œ	g	SB	0	æ	М	ΡΠ	œ	Υ	9	GR
83	87	88	68	06	16	92	93	92	96	97	86	66	100	101	102	103	106	107	108	109	110	111

BCM (BODY CONTROL MODULE) Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	Connector Type TH40FB-NH	H.S. SI ON THE STATE OF THE STA
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Signal Name [Specification]	ROOM ANT2-	ROOM ANT2+	PASSENGER DOOR ANT-	PASSENGER DOOR ANT+	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT1-	ROOM ANT1+	IMMOBI ANTENNA CONTROL	IMMOBI ANTENNA SIGNAL	IGN RELAY (F/B) CONT
Color of Wire	~	g	SB	BR	٨	FG	Υ	BR	GR	W	а
lerminal No.	72	7.3	74	75	9/	77	78	79	80	81	82

JCMWM1996GB

Fail-safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

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 (batter 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)						

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< ECU DIAGNOSIS INFORMATION >

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 fulfilledPower position changes to ACCReceives 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 \Rightarrow 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.

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< ECU DIAGNOSIS INFORMATION >

- 2. Turn rear wiper switch OFF.
- 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 B2604: PNP SW B2606: S/L RELAY B2607: S/L RELAY B2608: STARTER RELAY B2609: S/L STATUS B2609: S/L STATUS B2600: STEERING LOCK UNIT B260C: STEERING LOCK UNIT B260D: STEERING LOCK UNIT B260F: ENG STATE SIG LOST B2612: S/L STATUS 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	
	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, "COM-MON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing 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	×	×	_	<u>SEC-50</u>
B2014: CHAIN OF S/L-BCM	×	×	_	<u>SEC-51</u>
B2190: NATS ANTENNA AMP	×	_	_	<u>SEC-42</u>
B2191: DIFFERENCE OF KEY	×	_	_	<u>SEC-45</u>
B2192: ID DISCORD BCM-ECM	×	_	_	SEC-46
B2193: CHAIN OF BCM-ECM	×	_	_	<u>SEC-48</u>
B2195: ANTI SCANNING	×	_	_	<u>SEC-49</u>
B2553: IGNITION RELAY	_	×	_	PCS-50
B2555: STOP LAMP	_	×	_	<u>SEC-54</u>
B2556: PUSH-BTN IGN SW	_	×	×	<u>SEC-56</u>
B2557: VEHICLE SPEED	×	×	×	<u>SEC-58</u>
B2560: STARTER CONT RELAY	×	×	×	<u>SEC-59</u>
B2562: LOW VOLTAGE	_	×	_	BCS-37
B2601: SHIFT POSITION	×	×	×	SEC-60
B2602: SHIFT POSITION	×	×	×	<u>SEC-63</u>
B2603: SHIFT POSI STATUS	×	×	×	<u>SEC-65</u>
B2604: PNP SW	×	×	×	<u>SEC-68</u>
B2605: PNP SW	×	×	×	<u>SEC-70</u>
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	_	×	×	<u>SEC-81</u>
B260C: STEERING LOCK UNIT	_	×	×	SEC-82
B260D: STEERING LOCK UNIT	_	×	×	SEC-83
B260F: ENG STATE SIG LOST	×	×	×	SEC-84
B2612: S/L STATUS	×	×	×	<u>SEC-88</u>
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

< ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warn- ing 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

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INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

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).
- 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)
×	×	×	×	×	×	×	×	×	×			Power supply and ground circuit of total illumination control unit (INL-26) 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)
									×			 Hospitality lighting power supply 3 circuit (<u>INL-36</u>) Hospitality illumination circuit (<u>INL-55</u>)
-										×		Step lamp circuit (INL-58)
											×	The lamp housing and the direct circuit (INL-72)

^{*1:} Map lamp main switch ALL ON or DOOR

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^{*2:} Refer to INL-36, "Description" for linked illuminations.

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

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 (<u>INL-66</u>)
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 (<u>INL-70</u>).
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- $\underline{24}$)

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

- 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

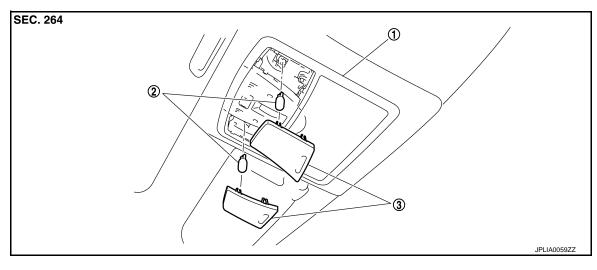
WARNING:

- 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



1. Map lamp assembly

2. Bulb

3. Lens

Removal and Installation

Refer to INT-23, "Exploded View" for the map lamp assembly installation/removal.

Replacement INFOID:000000003824853

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.
- Remove the bulb.

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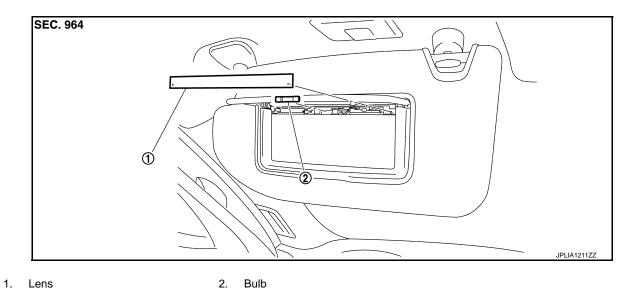
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VANITY MIRROR LAMP

Exploded View



Replacement

CAUTION:

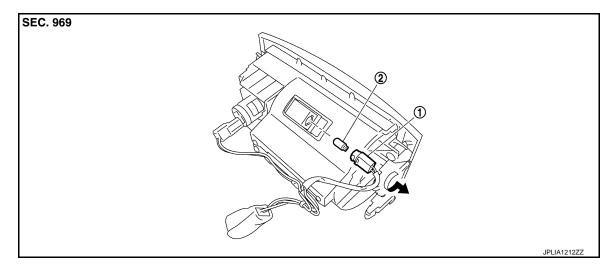
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after it turns OFF.
- Never leave bulb out of lamp reflector for a long time because dust, 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



1. Bulb socket 2. Bulb

Replacement INFOID:000000003949855

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

- Remove the console pocket assembly. Refer to IP-22, "Exploded View".
- 2. Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb.

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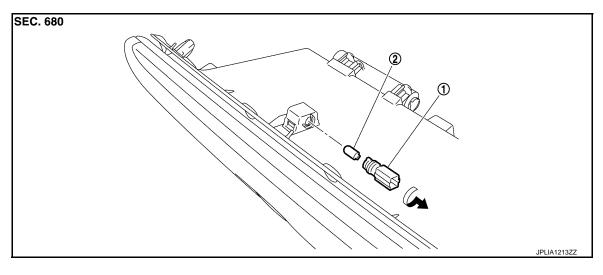
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GLOVE BOX LAMP

Exploded View



1. Bulb socket 2. Bulb

Replacement

CAUTION:

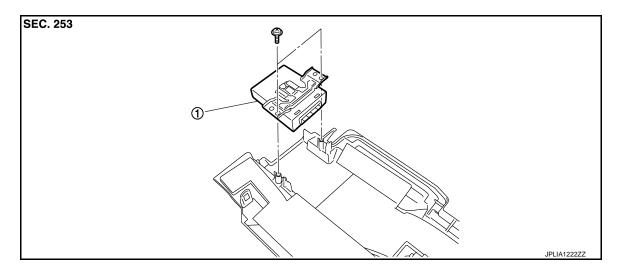
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after it turns OFF.
- Never leave bulb out of lamp reflector for a long time because dust, 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.
- Remove the bulb.

TOTAL ILLUMINATION CONTROL UNIT

Exploded View



1. Total illumination control unit

Removal and Installation

tomovar and modulation

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.

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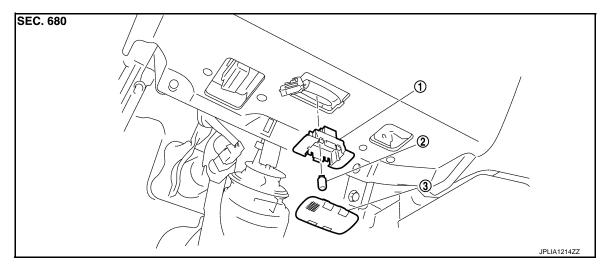
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Revision: 2009 March INL-173 2009 FX35/FX50

FOOT LAMP DRIVER SIDE

DRIVER SIDE: Exploded View

INFOID:0000000003824860



1. Foot lamp case (driver side)

Bulk

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

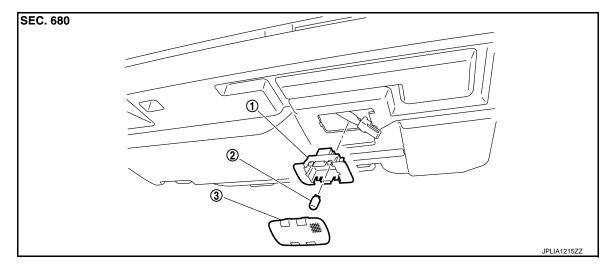
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1. Foot lamp case (passenger side) 2. I

Bulb

3. Lens

PASSENGER SIDE : Removal and Installation

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

INFOID:0000000003949874

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.
- Remove the bulb.

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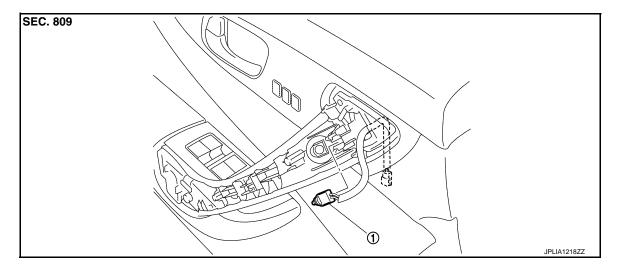
Revision: 2009 March INL-175 2009 FX35/FX50

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.

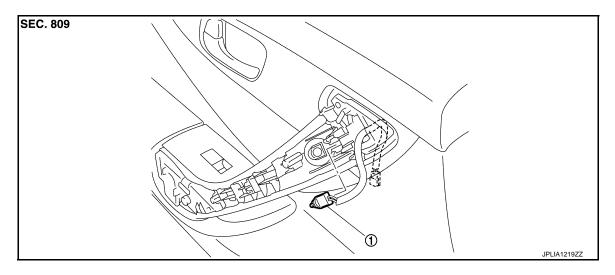
MOOD LAMP (FRONT DOOR ARMREST)

- 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



Mood lamp (rear door armrest)

MOOD LAMP

< REMOVAL AND INSTALLATION >

REAR DOOR ARMREST : Replacement

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.

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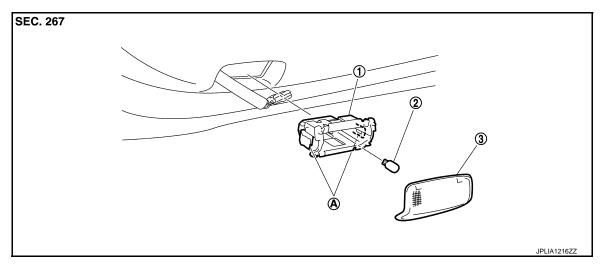
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STEP LAMP

Exploded View



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:

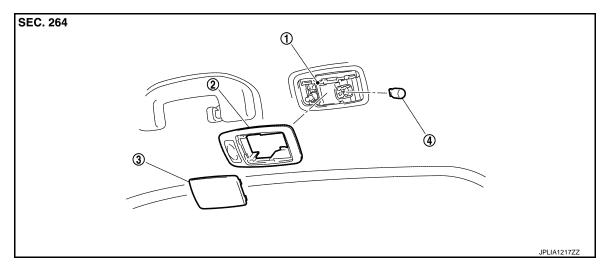
- Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Never touch bulb by hand while it is lit or right after it turns OFF.
- Never leave bulb out of lamp reflector for a long time because dust, 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".
- Remove the lens.
- 3. Remove the bulb.

PERSONAL LAMP

Exploded View



- 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

Actioval and installation

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.
- 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.

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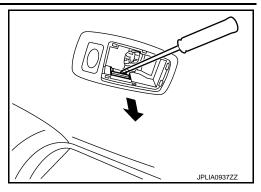
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PERSONAL LAMP

< REMOVAL AND INSTALLATION >

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

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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.
- Remove the bulb.

PUDDLE LAMP

< REMOVAL AND INSTALLATION >

PUDDLE LAMP

Exploded View

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".

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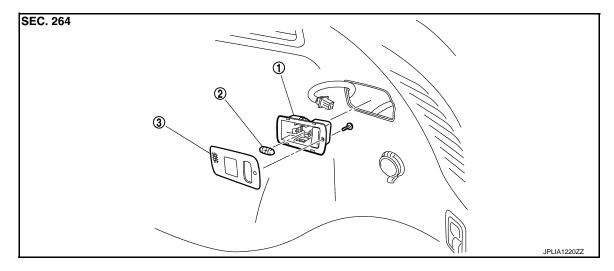
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LUGGAGE SIDE

LUGGAGE SIDE

LUGGAGE SIDE : Exploded View

INFOID:0000000003824871



 Luggage room lamp (luggage side) 2. Bulb housing 3. Lens

LUGGAGE SIDE: Removal and Installation

INFOID:0000000003824872

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 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

- Remove the luggage room lamp (luggage side). Refer to <u>INL-182, "LUGGAGE SIDE: Exploded View"</u>.
- 2. Remove the screw. And then remove the lens.
- Remove the bulb.

BACK DOOR SIDE

LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

BACK DOOR SIDE: Exploded View

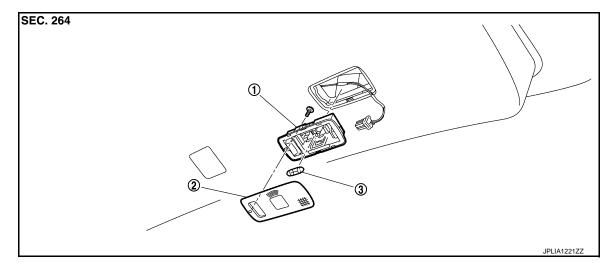
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 Luggage room lamp (back door side) 2. Lens assembly 3. Bulb

BACK DOOR SIDE: Removal and Installation

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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.
- 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

- Remove the luggage room lamp (back door side). Refer to <u>INL-183, "BACK DOOR SIDE : Exploded View"</u>.
- 2. Remove the screw. And then remove the lens.
- 3. Remove the bulb.

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Revision: 2009 March INL-183 2009 FX35/FX50

SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

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Item	Туре	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		