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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

Α

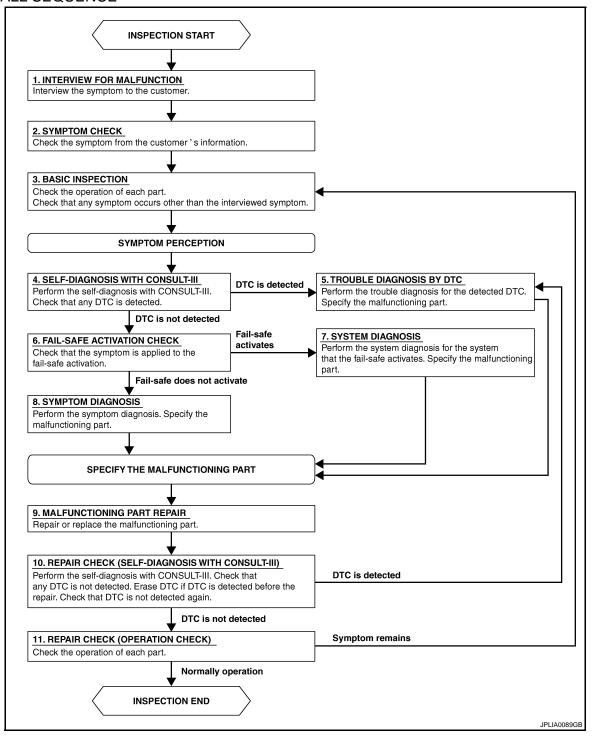
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OVERALL SEQUENCE



INL-3

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3

3.BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> 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

Determine if the customer's concern is related to 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 in which 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 11

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

Perform the self-diagnosis with CONSULT-III. Verfied that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

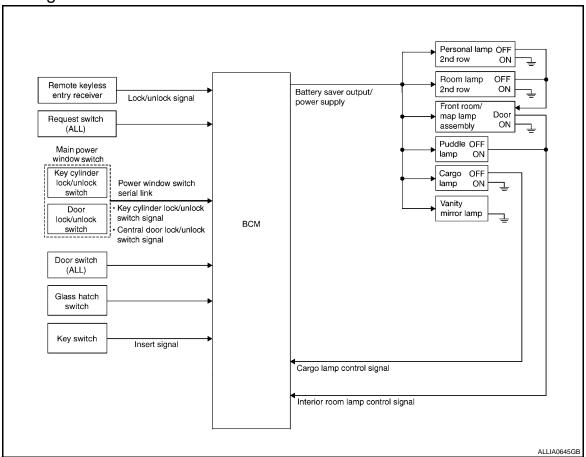
| DIAGNOSIS AND REPAIR WORKFLOW | |
|------------------------------------|------|
| < BASIC INSPECTION > | |
| YES >> GO TO 5 NO >> GO TO 11 | А |
| 11. REPAIR CHECK (OPERATION CHECK) | |
| Check the operation of each part. | |
| Does it operate normally? | В |
| YES >> INSPECTION END | |
| NO >> GO TO 3 | С |
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FUNCTION DIAGNOSIS

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram

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System Description

INFOID:0000000001712563

OUTLINE

- Interior room lamps* are controlled by the interior room lamp timer control function of the BCM.
 *Front room/map lamp, personal lamp 2nd row (with rear map lamps) or room lamp 2nd row (without rear map lamps).
- Cargo lamp is controlled by the cargo lamp control function of the BCM.

The timer control functions of the BCM activate based on inputs from the remote keyless entry receiver, the key cylinder lock/unlock switch, the door switches, the key switch (without intelligent key) or the key switch and ignition knob switch (with intelligent key).

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position and when all conditions below are met, the BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

- When the front door LH is unlocked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly (key cylinder switch)].
- When a door opens → closes and the Intelligent Key is not inserted in the key slot.

Timer control is canceled under the following conditions.

- When the front door LH is locked [with Intelligent Key, main power window and door lock/unlock switch, or front door lock assembly (key cylinder switch)].
- A door is opened (door switch turns ON).
- Intelligent Key is inserted into the key slot.

Interior lamp operational settings can be changed with the function setting of CONSULT-III.

< FUNCTION DIAGNOSIS >

INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 30 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

After the battery saver system turns the lamps OFF, the lamps will illuminate again when

- a signal is received from an Intelligent Key or main power window and door lock/unlock switch, or when the front door LH lock assembly (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the Intelligent Key is removed from or inserted into the key slot.

The Interior lamp battery saver control time period can be changed with the function setting of CONSULT-III.

Component Parts Location

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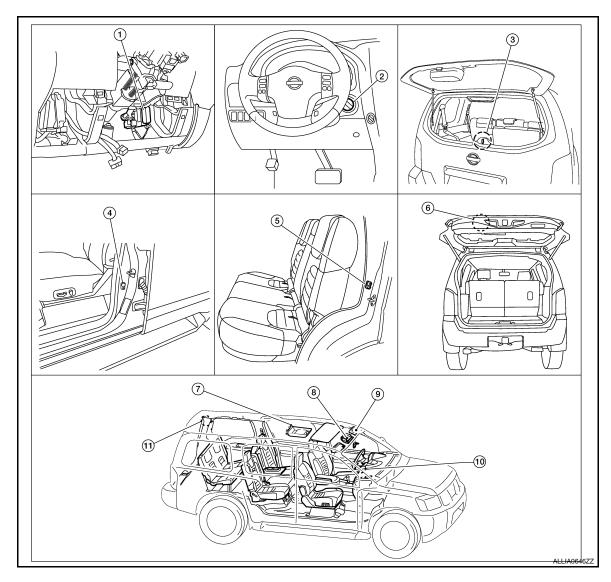
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- BCM M18, M19, M20 (view with instru- 2. ment panel removed)
- Front door switch LH B8 **RH B108**

- Key switch and ignition knob switch 3. (with I-Key) M66
- Key switch (without I-key) M77
- Rear door switch **LH B18 RH B116**

- Glass hatch ajar switch D503
- Back door cinching latch unit (door ajar

switch) D502

< FUNCTION DIAGNOSIS >

- 7. Personal lamp 2nd row (with map lamps) R10
 - Room lamp 2nd row (without map lamps) R12
- 3. Front room/map lamp assembly R9
- 9. Vanity lamp LH B80 RH B81

- 10. Ignition keyhole illumination M150
- 11. Cargo lamp R11

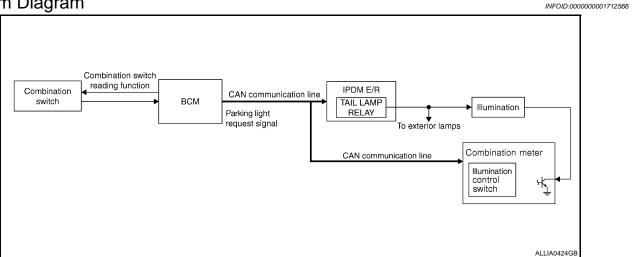
Component Description

INFOID:0000000001712565

| Part name | Description | |
|--|--|--|
| BCM | Provides power and ground and controls timer functions for the interior room lamps, step lamps and cargo lamp. | |
| Key switch and ignition knob switch (with I-Key) | Dravidas kay in ignition status to the PCM | |
| Key switch and lock solenoid (without I-Key) | Provides key in ignition status to the BCM. | |
| Door switches | Provides door OPEN/CLOSED status to the BCM. | |
| Glass hatch switch | Provides glass hatch OPEN/CLOSED status to the BCM. | |
| Back door latch (with power back door) | Provides back door OPEN/CLOSED status to the BCM. | |
| Back door switch (without power back door) | Provides back door OPEN/CLOSED status to the BCM. | |
| Power window and door lock/unlock switch RH | Provides door lock/unlock position switch RH status to the BCM. | |
| Main power window and door lock/unlock switch [front door lock assembly LH (key cylinder switch)]. | Provides door lock/unlock position switch LH status to the BCM. | |

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

The illumination lamps operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the lighting switch (combination switch) is in the 1ST or 2ND position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 30 minutes unless the lighting switch position is changed. If the lighting switch position is changed, then the illumination lamps are turned off after a 30 second delay. When the lighting switch is turned from OFF to 1ST or 2ND position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

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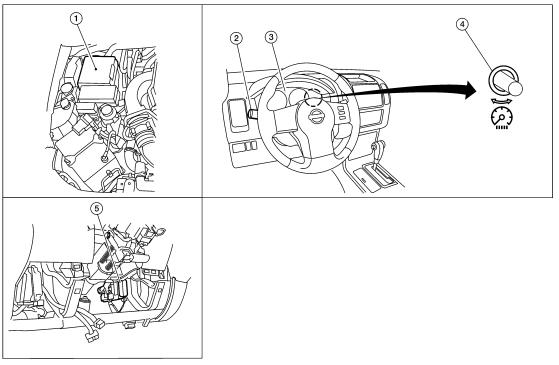
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Component Parts Location

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WKIA4973E

- 1. IPDM E/R E122, E124
- 4. Illumination control switch (built into combination meter)
- 2. Combination switch M28
- BCM M18, M20 (view with instrument panel removed)

. Combination meter M24

Component Description

INFOID:0000000001712569

| Part name | Description |
|---|--|
| BCM | The BCM monitors the lighting switch position with the combination switch reading function. The BCM requests, via CAN communication, that the IPDM E/R activate the tail lamp relay. |
| IPDM E/R | The IPDM E/R activates the tail lamp relay based on inputs received from the BCM via the CAN communication network. |
| Combination meter (illumination control switch) | The illumination control switch is a part of the combination meter. The combination meter controls illumination intensity by varying ground to the illumination lamps based on the illumination control switch position. |
| Combination switch | The combination switch provides input to the BCM about the lighting switch position. |

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT-III Function

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CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

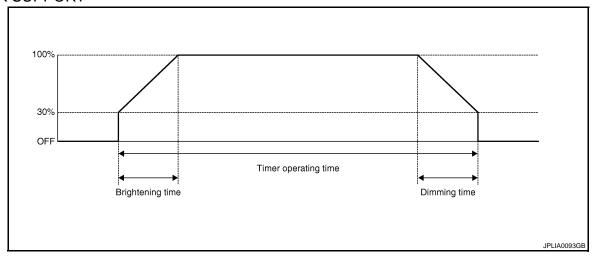
| BCM diagnostic test item | Diagnostic mode | Description |
|--------------------------|-----------------------|--|
| | WORK SUPPORT | Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed. |
| | DATA MONITOR | Displays BCM input/output data in real time. |
| Inspection by part | ACTIVE TEST | Operation of electrical loads can be checked by sending drive signal to them. |
| | SELF-DIAG RESULTS | Displays BCM self-diagnosis results. |
| | CAN DIAG SUPPORT MNTR | The result of transmit/receive diagnosis of CAN communication can be read. |
| | ECU PART NUMBER | BCM part number can be read. |
| | CONFIGURATION | Performs BCM configuration read/write functions. |

INT LAMP

INT LAMP: CONSULT-III Function

INFOID:0000000001712571

WORK SUPPORT



| Service item | Setting item | Setting | |
|-----------------------------|--------------|---|---|
| SET I/I D LINII OK INITOONI | ON | With the interior room lamp timer function | |
| SET I/L D-UNLCK INTCON | OFF | Without the interior room lamp timer function | |
| ROOM LAMP ON TIME SET | MODE 1 | 0.5 sec. | |
| | MODE 2 | 1 sec. | |
| | MODE 3 | 2 sec. | |
| | MODE 4 | 3 sec. | Sets the interior room lamp gradual brightening time. |
| | MODE 5 | 4 sec. | |
| | MODE 6 | 5 sec. | |
| | MODE 7 | 0 sec. | |

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< FUNCTION DIAGNOSIS >

| Service item | Setting item | | Setting | |
|------------------------|--------------|----------|---|--|
| ROOM LAMP OFF TIME SET | MODE 1 | 0.5 sec. | | |
| | MODE 2 | 1 sec. | Sets the interior room lamp gradual dimming time. | |
| | MODE 3 | 2 sec. | | |
| | MODE 4 | 3 sec. | | |
| | MODE 5 | 4 sec. | | |
| | MODE 6 | 5 sec. | | |
| | MODE 7 | 0 sec. | | |

DATA MONITOR

| Monitor item [Unit] | Description |
|----------------------------|--|
| IGN ON SW [ON/OFF] | The switch status input from ignition switch |
| KEY ON SW [ON/OFF] | Key switch status input from key slot |
| DOOR SW-DR [ON/OFF] | The switch status input from front door switch LH |
| DOOR SW-AS [ON/OFF] | The switch status input from front door switch RH |
| 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 |
| BACK DOOR SW [ON/OFF] | The switch status input from back door switch |
| KEY CYL LK-SW [ON/OFF] | Lock switch status received from key cylinder switch by power window serial link |
| KEY CYL UN-SW [ON/OFF] | Unlock switch status received from key cylinder switch by power window serial link |
| CDL LOCK SW [ON/OFF] | Lock switch status received from door lock/unlock switch by power window serial link |
| CDL UNLOCK SW [ON/OFF] | Unlock switch status received from door lock/unlock switch by power window serial link |
| I-KEY LOCK [ON/OFF] | Lock signal status received from remote keyless entry receiver |
| I-KEY UNLOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |
| KEYLESS LOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |
| KEYLESS UNLOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |

ACTIVE TEST

| Test item | Operation | Description |
|-----------|-----------|--|
| INT LAMP | ON | Outputs the interior room lamp control signal to turn the front room/map lamp, personal lamps (Map lamp switch is in DOOR position) and puddle lamps (if equipped) ON. |
| | OFF | Stops the interior room lamp control signal to turn the front room/map lamp, personal lamps (Map lamp switch is in DOOR position) and puddle lamps (if equipped) OFF. |

< FUNCTION DIAGNOSIS >

| Test item | Operation | Description |
|--------------------|-----------|--|
| IGN ILLUM | ON | Outputs the ignition keyhole illumination signal to turn the ignition keyhole illumination ON. |
| IGIN ILLUM | OFF | Stops the ignition keyhole illumination signal to turn the ignition keyhole illumination OFF. |
| STEP LAMP TEST | ON | Test item is listed, but does not apply to this vehicle. |
| STEF LAWIF TEST | OFF | rest item is listed, but does not apply to this vehicle. |
| LUGGAGE LAMP TEST | ON | Outputs the cargo lamp control signal to turn cargo lamp ON. |
| LUGGAGE LAWIF TEST | OFF | Stops the cargo lamp control signal to turn cargo lamp OFF. |

BATTERY SAVER

BATTERY SAVER: CONSULT-III Function

INFOID:0000000001712572

WORK SUPPORT

| Service item | Setting item | Setting |
|---------------------|-----------------|---|
| ROOM LAMP TIMER SET | MODE 1 (ON) | Interior room lamp timer activates with synchronizing all doors. |
| | MODE 2 (OFF) | Interior room lamp timer activates with synchronizing the front door LH only. |

DATA MONITOR

| Monitor item [Unit] | Description |
|---------------------------|--|
| IGN ON SW [ON/OFF] | The switch status input from ignition switch |
| KEY ON SW [ON/OFF] | Key switch status input from key slot |
| DOOR SW-DR [ON/OFF] | The switch status input from front door switch LH |
| DOOR SW-AS [ON/OFF] | The switch status input from front door switch RH |
| 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 |
| BACK DOOR SW [ON/OFF] | The switch status input from back door switch |
| KEY CYL LK-SW [ON/OFF] | Lock switch status received from key cylinder switch by power window serial link |
| KEY CYL UN-SW [ON/OFF] | Unlock switch status received from key cylinder switch by power window serial link |
| CDL LOCK SW [ON/OFF] | Lock switch status received from door lock/unlock switch by power window serial link |
| CDL UNLOCK SW [ON/OFF] | Unlock switch status received from door lock/unlock switch by power window serial link |
| I-KEY LOCK [ON/OFF] | Lock signal status received from remote keyless entry receiver |
| I-KEY UNLOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |

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< FUNCTION DIAGNOSIS >

| Monitor item [Unit] | Description |
|----------------------------|--|
| KEYLESS LOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |
| KEYLESS UNLOCK [ON/OFF] | Unlock signal status received from remote keyless entry receiver |

ACTIVE TEST

| Test item | Operation | Description | |
|-------------------|-----------|--|--|
| BATTERY SAVER | ON | Outputs the battery saver output/power supply to turn the interior lamps ON. | |
| BATTERY SAVER OFF | | Stops the battery saver output/power supply to turn the interior lamps OFF. | |

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Inspection Procedure

INFOID:0000000001712573

POWER SUPPLY AND GROUND CIRCUIT INSPECTION FOR BCM

For information about power and ground circuit inspection for the BCM, refer to <u>BCS-32</u>, "<u>Diagnosis Procedure</u>".

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BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description INFOID:000000001712574

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

Component Function Check

INFOID:0000000001712575

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Front room/map lamp assembly
- Vanity lamps (if equipped)
- Cargo lamp
- Personal lamp 2nd row (with rear map lamps)
- Room lamp 2nd row (without rear map lamps)
- 3. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 4. With operating the test items, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamp OFF
ON : Interior room lamp ON

Does the interior room lamp turn ON/OFF?

YES >> Battery saver output/power supply circuit is normal.

NO >> Refer to INL-16, "Diagnosis Procedure".

Diagnosis Procedure

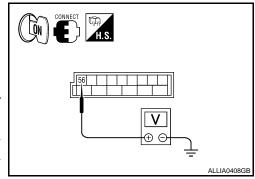
INFOID:0000000001712576

1. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- 3. With test item operating, check voltage between BCM harness connector M20 terminal 56 and ground.

| (- | +) | (-) | Test item | Voltage |
|-----------|----------|---------|---------------|-----------------|
| Connector | Terminal | (-) | BATTERY SAVER | voltage |
| M20 | 56 | Ground | OFF | 0V |
| 10120 | 30 | Giodila | ON | Battery voltage |



Is the voltage reading as specified?

YES >> GO TO 2

NO >> Replace BCM. Refer to BCS-54, "Removal and Installation".

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect the following connectors.
- BCM M20
- Ignition key hole illumination
- Front room/map lamp assembly
- Vanity lamp LH (if equipped)
- Vanity lamp RH (if equipped)
- Cargo lamp
- Personal lamp 2nd row (with rear map lamps)
- Room lamp 2nd row (without rear map lamps)

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

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

| BC | М | Each interior room lamp | | | Continuity |
|-----------|----------|---|------|---|------------|
| Connector | Terminal | Connector Terminal | | | Continuity |
| | | Ignition key hole illumination | M150 | 1 | |
| | | Front room/map lamp assembly | R9 | 1 | |
| | M20 56 | Vanity lamp LH (if equipped) | B80 | 1 | |
| M20 | | Vanity lamp RH (if equipped) | B81 | 1 | Yes |
| | | Cargo lamp | R11 | 2 | |
| | | Personal lamp 2nd row (with rear map lamps) | R10 | 1 | |
| | | Room lamp 2nd row (without rear map lamps) | R12 | 2 | |

Does continuity exist?

YES >> GO TO 3

NO >> Repair the harnesses or connectors.

$3. \mathsf{CHECK}$ battery saver output/power supply short circuit

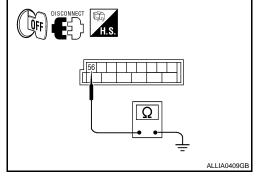
Check continuity between BCM harness connector M20 terminal 56 and ground.

| Connector | Terminal | _ | Continuity |
|-----------|----------|--------|------------|
| M20 | 56 | Ground | No |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Check that each interior room lamp has no internal short circuit.



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INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description INFOID:000000001712577

Controls the following interior room lamps (ground side) by PWM signal

- Front room/map lamp assembly
- Personal lamp 2nd row (with rear map lamps)
- Room lamp 2nd row (without rear map lamps)

NOTE:

PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

INFOID:0000000001712578

CAUTION:

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

- Battery saver output/power supply
- Front room/map lamp bulbs
- Personal lamp 2nd row bulbs
- Room lamp 2nd row bulbs

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

(P)CONSULT-III

- 1. Switch the map lamp switch to DOOR.
- 2. Turn ignition switch ON.
- 3. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 4. With the test items operating, check that each interior room lamp turns ON/OFF (gradual brightening/dimming).

ON : Interior room lamp gradual brightening
OFF : Interior room lamp gradual dimming

Do the interior room lamps turn ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal. NO >> Refer to INL-18, "Diagnosis Procedure".

Diagnosis Procedure

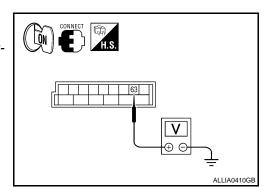
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1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

(E)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "INT LAMP" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM harness connector M20 terminal 63 and ground.

| (+) | | (-) | INT LAMP | Voltage | |
|-----------|----------|---------|--------------|-----------------|--|
| Connector | Terminal | () | IIVI E/IIVII | voltage | |
| M20 | 63 | Ground | ON | 0V | |
| IVIZO | 03 | Giodila | OFF | Battery voltage | |



Are voltage readings as specified?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON>> GO TO 3

Fixed OFF>> GO TO 2

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect BCM connector M20, personal lamp 2nd row connector (with rear map lamps) or room lamp 2nd row connector (without rear map lamps) and front room/map lamp connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

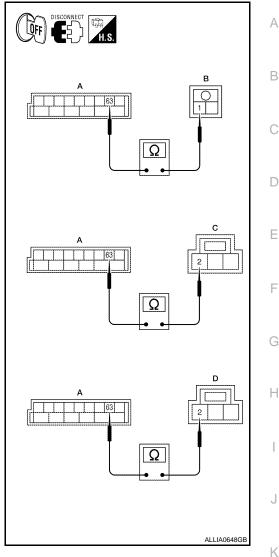
3. Check continuity between BCM harness connector M20 terminal 63 and interior room lamp connectors.

| Term | inal | Terminal | | | Continuity |
|-----------|----------|---|--------|----------|------------|
| Connector | Terminal | Component Connector | | Terminal | Continuity |
| | | Front room/map lamp | B: R9 | 1 | |
| A: M20 | 63 | Personal lamp 2nd row (with rear map lamps) | C: R10 | 2 | Yes |
| | | Room lamp 2nd row (without rear map lamps) | D: R12 | 1 | |

Are the continuity test results as specified?

YES >> Replace the BCM. Refer to BCS-54, "Removal and Installation".

NO >> Repair the harnesses or connectors.



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

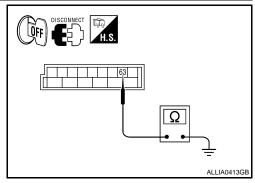
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M20, personal lamps 2nd row connector (with rear map lamps) or room lamp 2nd row connector (without rear map lamps).
- 3. Check continuity between BCM harness connector and ground.

| Connector | Terminal | _ | Continuity |
|-----------|----------|--------|------------|
| M20 | 63 | Ground | No |

Does continuity exist?

YES >> Repair the harnesses or connectors. NO >> Replace BCM. Refer to BCS-54, "Re

>> Replace BCM. Refer to BCS-54, "Removal and Installation".



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CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

CARGO LAMP CONTROL CIRCUIT

Description INFOID:0000000001712583

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

Component Function Check

INFOID:0000000001712584

CAUTION:

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

- Battery saver output/power supply
- Cargo lamp bulb
- 1. CHECK CARGO LAMP OPRATION

(P)CONSULT-III

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

ON : Cargo lamp ON **OFF** : Cargo lamp OFF

Does the cargo lamp turn ON/OFF?

YES >> Cargo lamp circuit is normal.

>> Refer to INL-20, "Diagnosis Procedure". NO

Diagnosis Procedure

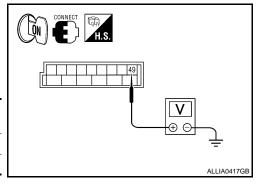
INFOID:0000000001712585

CHECK CARGO LAMP OUTPUT

(P)CONSULT-III

- Turn ignition switch ON.
- Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test
- While operating the test item, check voltage between BCM harness connector M19 terminal 49 and ground.

| Connector | Terminal | _ | LUGGAGE LAMP TEST | Voltage |
|-----------|----------|--------|----------------------|-----------------|
| M10 | 40 | Ground | ON | 0V |
| 10119 | M19 49 | | OFF | Battery voltage |



Are the voltage readings as specified?

>> Cargo lamp control circuit is operating normally.

Fixed ON>> GO TO 3

Fixed OFF>> GO TO 2

2.CHECK CARGO LAMP OPEN CIRCUIT

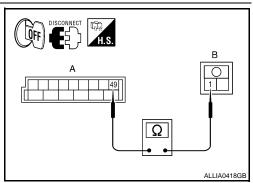
- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector.
- Check continuity between BCM harness connector M19 (A) terminal 49 and cargo lamp harness connector R11 (B) terminal 1.

| | A | | В | |
|-----------|----------|--------------------|---|------------|
| Connector | Terminal | Connector Terminal | | Continuity |
| M19 | 49 | R11 | 1 | Yes |

Does continuity exist?

YES >> Replace cargo lamp.

NO >> Repair harnesses or connectors.



CARGO LAMP CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

3. CHECK CARGO LAMP SHORT CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M19 and cargo lamp connector R11. Check continuity between BCM harness connector M19 terminal 49 and ground.

| Connector | Terminal | _ | Continuity |
|-----------|----------|--------|------------|
| M19 | 49 | Ground | No |

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Does continuity exist?

- YES >> Repair harnesses or connectors.
- NO >> Replace BCM. Refer to BCS-54, "Removal and Installation".

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IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description INFOID:000000001712586

Controls the ignition keyhole illumination (ground side) to turn the ignition keyhole illumination ON and OFF.

Component Function Check

INFOID:0000000001712587

CAUTION:

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

- Battery saver output/power supply circuit
- Ignition keyhole illumination bulb
- 1. CHECK IGNITION KEYHOLE ILLUMINATION OPERATION

(P)CONSULT-III

- 1. Turn the ignition switch ON.
- Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- With operating the test items, check that the ignition keyhole illumination turns ON/OFF

ON : Ignition keyhole illumination ON OFF : Ignition keyhole illumination OFF

Does the ignition keyhole illumination turn ON/OFF?

YES >> Ignition keyhole illumination circuit is normal. NO >> Refer to INL-22, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001712588

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1. CHECK IGNITION KEYHOLE OUTPUT

(P)CONSULT-III

- 1. Turn ignition switch ON.
- 2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
- 3. While operating the test item, check voltage between BCM harness connector M18 terminal 1 and ground.

| Connector | Terminal | _ | IGN ILLUM | Voltage |
|-----------|----------|----------|-----------|-----------------|
| M18 | 1 | Ground - | ON | 0V |
| IVITO | M18 1 | | OFF | Battery voltage |

Are the voltage readings as specified?

YES >> Ignition keyhole illumination control circuit is operating normally.

Fixed ON>> GO TO 3.

Fixed OFF>> GO TO 2.

2.check ignition keyhole illumination open circuit

- 1. Turn ignition switch OFF.
- Disconnect BCM connector M18 and ignition keyhole illumination connector M150.
- 3. Check continuity between BCM harness connector M18 (A) terminal 1 and ignition keyhole illumination harness connector M150 (B) terminal 2.

| | A | | В | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M18 | 1 | M150 | 2 | Yes |

ON CONNECT H.S

Does continuity exist?

YES >> Replace ignition keyhole illumination.

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< COMPONENT DIAGNOSIS >

NO >> Repair harnesses or connectors.

$3. \mathsf{CHECK}$ IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

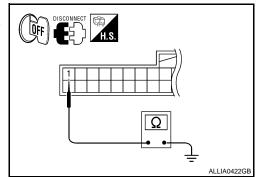
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connector M18 and ignition keyhole illumination connector M150.
- 3. Check continuity between BCM harness connector M18 terminal 1 and ground.

| Connector | Terminal | _ | Continuity |
|-----------|----------|--------|------------|
| M18 | 1 | Ground | No |

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> Replace BCM. Refer to <u>BCS-54, "Removal and Installation"</u> .



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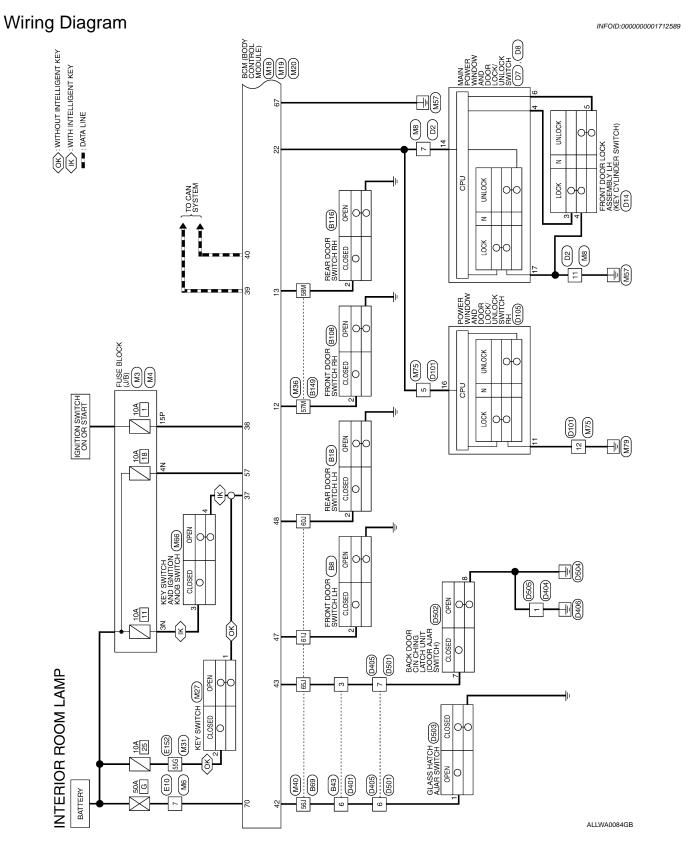
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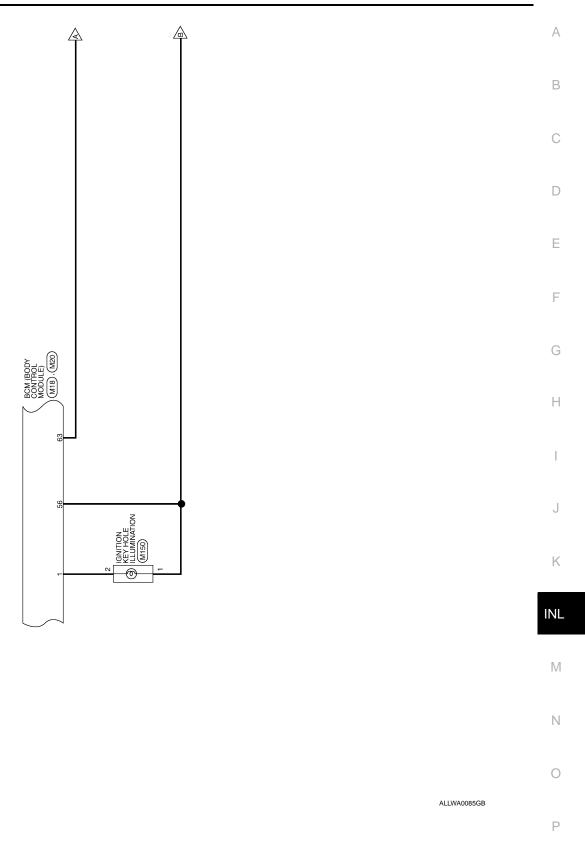
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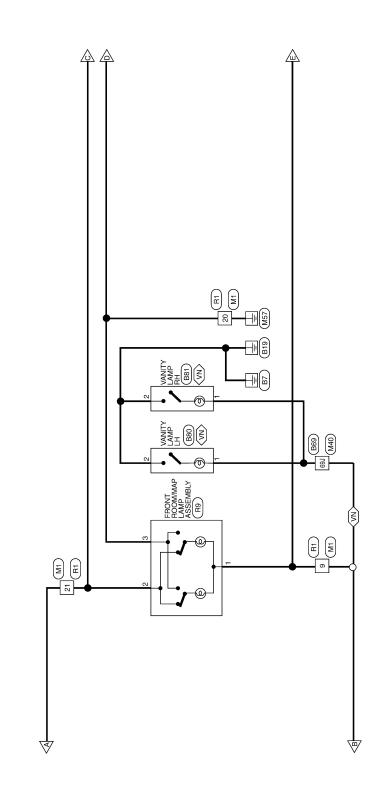
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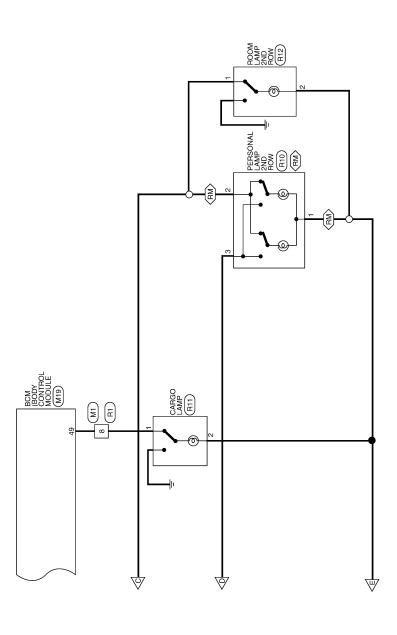


VN : WITH VANITY LAMPS



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⟨RM⟩ : WITH REAR MAP LAMPS



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< COMPONENT DIAGNOSIS >

Connector Name FUSE BLOCK (J/B)

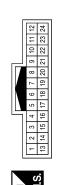
Connector No. M3
Connector Name FUSE BLOCK (J/B)
Connector Color WHITE

Connector No.

Connector Color WHITE

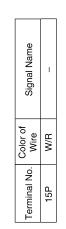
INTERIOR ROOM LAMP CONNECTORS

| M1 | WIRE TO WIRE | WHITE | |
|---------------|-----------------------------|-----------------------|---|
| Connector No. | Connector Name WIRE TO WIRE | Connector Color WHITE | [|



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|------------|-------------------------------------|---|------------------|-----|-----|----|----|
| 12 | 24 | | Ф | | | | |
| Ξ | : 8 | | E | | | | |
| 9 10 11 12 | 13 14 15 16 17 18 19 20 21 22 23 24 | | Signal Name | | l i | ١, | ١, |
| 6 | 21 | | <u>a</u> | l ' | l ' | | ' |
| œ | 20 | | ig | | | | |
| 7 | 19 | | 0) | | | | |
| ç | 18 | | | | | | |
| Ľ. | 17 | | | | | | |
| 3 4 | 16 | | Color of Wire | | | | |
| c | 15 | | color c Wire | | ₽ | m | BR |
| ~ | 14 | | ري <i>></i> | | - | | |
| - | 13 | | o. | | | | |
| Ţ | Ę. | J | erminal No. | 80 | 6 | 20 | 21 |



Signal Name

Color of Wire

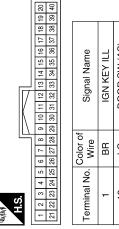
Terminal No.

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7P 6P 5P 4P 3P 2P 1P 16P 15P 11P 10P 9P 8P

| M18 | Connector Name BCM (BODY CONTROL MODULE) | WHITE | |
|---------------|--|-----------------------|--|
| Connector No. | Connector Name | Connector Color WHITE | |



| Terminal No. | Color of Wire | Signal Name |
|--------------|------------------|--------------|
| - | BR | IGN KEY ILL |
| 12 | ГС | DOOR SW (AS) |
| 13 | ٦ | DOOR SW (RR) |
| 22 | > | BUS |
| 37 | В | KEY SW |
| 38 | W/R | IGN SW |
| 39 | ٦ | CAN-H |
| 40 | ۵ | CAN-L |

| M8 | Connector Name WIRE TO WIRE | WHITE | |
|---------------|-----------------------------|-----------------|--|
| Connector No. | Connector Name | Connector Color | |



| Signal Name | 1 | ı |
|------------------|---|----|
| Color of Wire | > | В |
| Terminal No. | 2 | 11 |

| Connector No. |). M6 | |
|-----------------------------|------------------|-------------|
| Connector Name WIRE TO WIRE | ame WI | RE TO WIRE |
| Connector Color | | WHITE |
| 原 H.S. | 4 8 | 7 3 6 5 1 |
| Terminal No. | Color of Wire | Signal Name |
| 7 | 8 | 1 |

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< COMPONENT DIAGNOSIS >

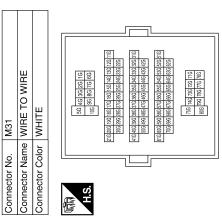
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|---------------|---------------------------|-----------------------|------|------------------|---|---|
| | WITCH | | | Signal Name | _ | |
| M27 | ne KEY S | or WHITI | | Color of Wire | В | |
| Connector No. | Connector Name KEY SWITCH | Connector Color WHITE | H.S. | Terminal No. | 1 | |
| | | | | | | _ |

| | WITCH | 111 | | Sign | | |
|---------------|---------------------------|-----------------------|-----------|------------------|---|---|
| M27 | KEY S | WHITE | | Color of Wire | В | > |
| ġ. | lame | Solor | | | | |
| Connector No. | Connector Name KEY SWITCH | Connector Color WHITE | 画 H.S. | Terminal No. | 1 | C |
| | | | <u> </u> | | | |
| | | | | | | |

| | BCM (BODY CONTROL MODULE) | CK | S6 57 58 59 60 61 62 63 64 S5 S6 S7 S6 S9 70 | Signal Name | BAT SAVER | BAT (FUSE) | ROOM LAMP | GND (POWER) | BAT (F/L) |
|--------------|------------------------------|-----------------|--|------------------|-----------|------------|-----------|-------------|-----------|
| MSO | | lor BLACK | 999 | Color of Wire | > | R/Y | BR | В | Μ |
| Connector No | Connector Name | Connector Color | 明.S. | Terminal No. | 56 | 25 | 63 | 29 | 0/ |

| | BCM (BODY CONTROL MODULE) | TE | 42 42 43 44 45 46 47 48 49 | Signal Name | GLASS HATCH AJAR | BACK DOOR SW | DOOR SW (DR) | DOOR SW (RL) | LUGGAGE LAMP OUTPUT |
|---------------|------------------------------|-----------------------|--|------------------|------------------|--------------|--------------|--------------|------------------------|
| M19 | me BCI | lor WH | 41 42 | Color of Wire | ГG | SB | GR | Д | Г |
| Connector No. | Connector Name | Connector Color WHITE | 咸南 H.S. | Terminal No. | 42 | 43 | 47 | 48 | 49 |

| Signal Name | I | |
|------------------|----------|--|
| Color of Wire | \ | |
| Terminal No. | 55G | |
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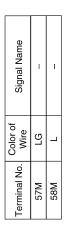
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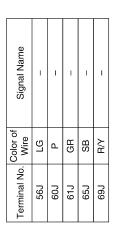
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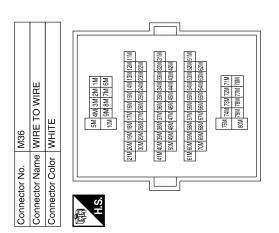
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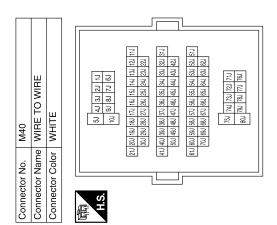
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| Connector No. | . M66 | |
|----------------------|------------------|--|
| Connector Na | me KEY S KNOB | Connector Name KEY SWITCH AND IGNITION KNOB SWITCH |
| Connector Color GRAY | lor GRAY | |
| 明.S. | 1 2 3 | 4 5 6 |
| Terminal No. | Color of Wire | Signal Name |
| 3 | B/B | _ |
| 4 | SB | _ |
| | | |



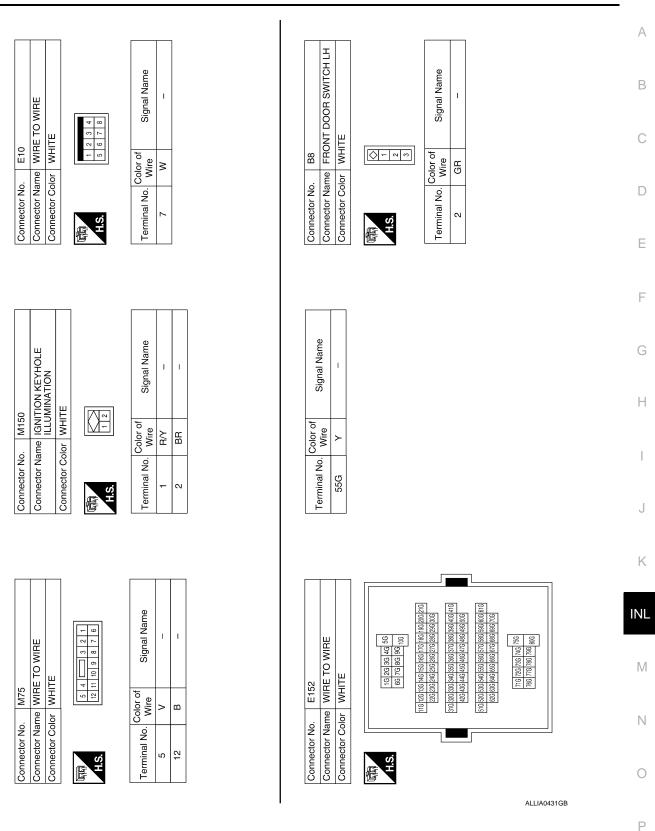






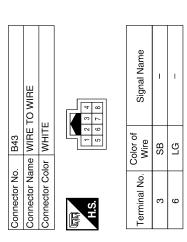
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< COMPONENT DIAGNOSIS >



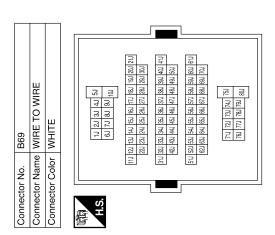
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| B80 VANITY I AMP I H | | | Signal Name | I | 1 |
|-------------------------|-----------------------|------|------------------|-----|---|
| و | lor WHITE | | Color of Wire | R/Y | В |
| Connector No. | Connector Color WHITE | H.S. | Terminal No. | 1 | 2 |



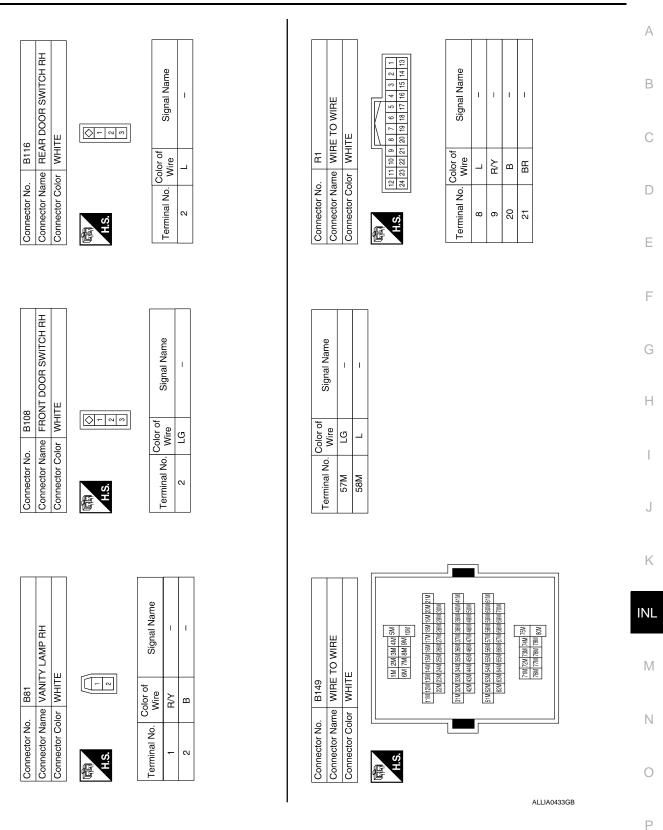
| Signal Name | I | _ | Ī | - | I |
|------------------|-------------|-----|-----|-----|-----|
| Color of Wire | ГG | Ь | GR | SB | R/Y |
| Terminal No. | ſ9 <u>9</u> | ſ09 | 61J | f29 | ſ69 |

| Connector No. | . B18 | |
|-----------------------|------------------|------------------------------------|
| Connector Na | me RE⊿ | Connector Name REAR DOOR SWITCH LH |
| Connector Color WHITE | lor WHI | TE |
| 麻 H.S. | | |
| Terminal No. | Color of Wire | Signal Name |
| 2 | Ь | 1 |



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< COMPONENT DIAGNOSIS >



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< COMPONENT DIAGNOSIS >

| Connector No. | , R11 | |
|-----------------|------------------|-------------|
| Connector Name | ıme CARG | CARGO LAMP |
| Connector Color | lor WHITE | ш |
| 是 H.S. | | 5 |
| Terminal No. | Color of Wire | Signal Name |
| 1 | ٦ | _ |
| 2 | Η/Y | 1 |

| Terminal No. Color of Wire Signal Name 1 L - 2 R/Y - | | | |
|--|-------------|------------------|--------------|
| Color of Wire | 1 | R/Y | 2 |
| Color of Wire | Ī | ٦ | 1 |
| | Signal Name | Color of Wire | Terminal No. |

| Signal Name | 1 | ı | |
|------------------|---|-----|--|
| Color of Wire | Г | R/Y | |
| Terminal No. | 1 | 7 | |
| | | | |

| RSONAL LAMP 2ND ROW | ITE | 2 3 1 | Signal Name | 1 | ı | ı |
|---------------------|--------------------------------------|--|--|---|--|---|
| ıme PEI | olor WH | | Color of Wire | R/Υ | BR | В |
| Connector Na | Connector Cc | 高 H.S. | Terminal No. | 1 | 2 | 8 |
| | Connector Name PERSONAL LAMP 2ND ROW | Connector Name PERSONAL LAMP 2ND ROW Connector Color WHITE | Connector Name PERSONAL LAMP 2ND ROW Connector Color WHITE LA.S. | Connector Name PERSONAL LAMP 2ND ROW Connector Color WHITE H.S. Terminal No. Wire Signal Name | Connector Name PERSONAL LAMP 2ND ROW Connector Color WHITE H.S. Terminal No. Color of Signal Name 1 R/Y - | Connector Name PERSONAL LAMP 2ND ROW Connector Color WHITE #I.S. Terminal No. Color of Signal Name 1 R/Y 2 BR 2 BR |



| | FRONT ROOM/MAP LAMP ASSEMBLY | IITE | 2 3 3 1 | Signal Name | ı | ı | |
|---------------|---------------------------------|-----------------------|-----------|------------------|----|---|---|
| R9 | | olor WF | | Color of Wire | ₽V | > | ۵ |
| Connector No. | Connector Name | Connector Color WHITE | 画 H.S. | Terminal No. | - | 2 | c |

| Connector No. | D7 |
|-----------------------|--|
| Connector Name | Connector Name MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH |
| Connector Color WHITE | WHITE |
| H.S. | 8 9 10 11 12 13 14 15 16 |

KEY CYL UNLOCK SW KEY CYL LOCK SW

₩ SB

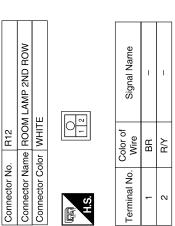
Signal Name

Terminal No.

4 9 POWER WINDOW SERIAL LINK

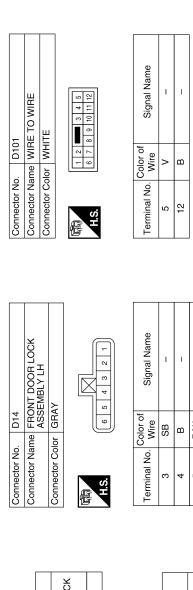
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| Connector No. | DS | |
|---------------|-----------------------|-------------------------------|
| ctor Nar | ne WIR | Connector Name WIRE TO WIRE |
| ctor Col | Connector Color WHITE | ITE |
| H.S. | 7 6 5 4 16 15 14 13 | 13 |
| Terminal No. | Color of Wire | Signal Name |
| | ^ | ı |
| _ | В | - |



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< COMPONENT DIAGNOSIS >



| Connector No. DB ASSEMBLY LH Connector Name MAIN POWER WINDOW AND DOOR LOCK/UNLOCK Connector Color WHITE MITCH Connector Color WHITE Color of H.S. Terminal No. Color of Wire Signal Name 17 B GND |
|--|
| H.S. Connector Color Terminal No. WW 3 S S S S S S S S S S S S S S S S S |
| |
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| |

| Connector No. D401 | D401 | | Cor | Connector No. | D404 | |
|-----------------------------|------------------|------------------|-----|-----------------------------|------------------|-------------|
| Connector Name WIRE TO WIRE | ne WIRE | TO WIRE | Col | Connector Name WIRE TO WIRE | e WIRE | TO WIRE |
| Connector Color WHITE | or WHITE | | Col | Connector Color WHITE | r WHIT | E |
| 南 H.S. | 4 8 | - u ₀ | | H.S. | | 3 2 -1 |
| Terminal No. Wire | Color of Wire | Signal Name | Ter | Terminal No. Wire | color of Wire | Signal Name |
| က | SB | 1 | | - | В | 1 |
| 9 | P | ı | | - | | |

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POWER WINDOW SERIAL LINK

Signal Name GND

Color of Wire В >

Terminal No. Ξ 16 Α

В

С

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Connector Name POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH

D105

Connector No.

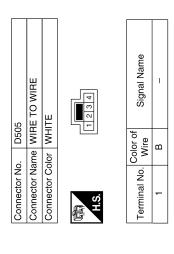
Connector Color WHITE

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| Connector No. |). D502 | |
|-----------------------|------------------|--|
| Connector Na | me BACK LATC | Connector Name BACK DOOR CINCHING LATCH UNIT |
| Connector Color WHITE | olor WHITE | 111 |
| 赋 H.S. | - 4 c | 2 7 2 |
| Terminal No. | Color of Wire | Signal Name |
| 7 | as | - |
| 8 | В | I |

| Connector No. |). D501 | |
|-----------------------------|------------------|-------------|
| Connector Name WIRE TO WIRE | ame WIRE | TO WIRE |
| Connector Color WHITE | olor WHIT | Щ |
| 赋利 H.S. | | 2 9 9 4 8 V |
| Terminal No. | Color of Wire | Signal Name |
| 9 | ٦В | ı |
| 7 | as: | 1 |

| TOWN OF I | THIN OF I | TE | 1 2 2 2 2 2 2 2 2 2 | Signal Name | - | 1 |
|-----------|-------------------------------|-----------------------|---------------------------------------|------------------|----|----|
| me \ | - | lor \ | | Color of Wire | ΓG | SB |
| | Connector Name WIRE 10 WIRE | Connector Color WHITE | 原动 H.S. | Terminal No. | 9 | 7 |



Signal Name

Color of Wire LG

Terminal No.

GLASS HATCH AJAR SWITCH

Connector No.

D503

Connector Color BLACK

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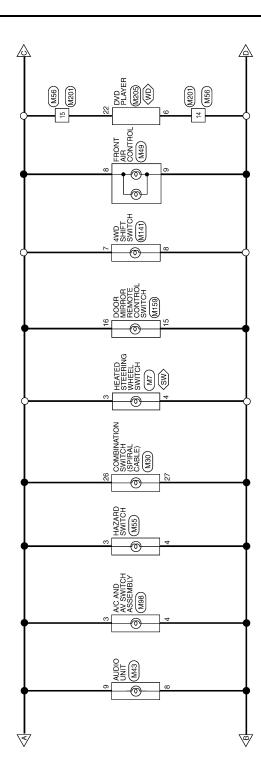
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ILLUMINATION Α Wiring Diagram INFOID:0000000001712590 В ■ : DATA LINE C COMBINATION METER (M24) D Е FUSE BLOCK (J/B) (M4) METER ILLMINATION F 10A G Н E152 M31 W57 J Κ (M91) M57 20A 53 INL FUSE BLOCK (J/B) (M4) \mathbb{N} IGNITION SWITCH ON OR START Ν ILLUMINATION 0 M6 35 50A G BATTERY Ρ

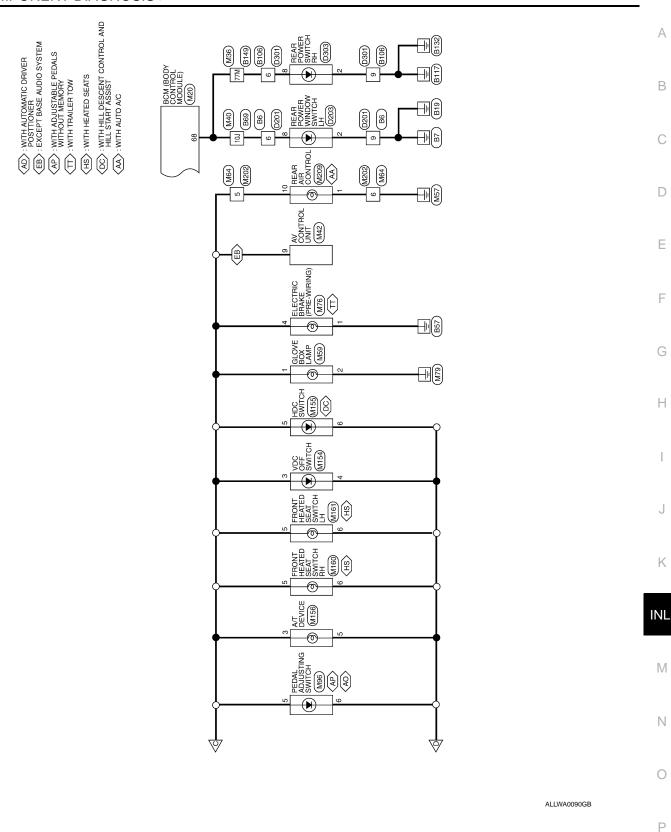
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⟨SW⟩ : WITH HEATED STEERING WHEEL
⟨WD⟩ : WITH DVD ENTERTAINMENT SYSTEM





ALLWA0089GB



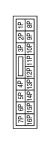
Connector Name | HEATED STEERING WHEEL SWITCH

Connector No. M7

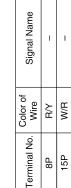
Connector Color WHITE

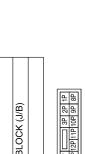
ILLUMINATION CONNECTORS

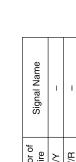
| Connector No. | M4 |
|-----------------------|---------------------------------|
| Connector Name | Connector Name FUSE BLOCK (J/B) |
| Connector Color WHITE | WHITE |

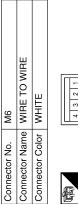














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| Signal Name | I | |
|------------------|---|--|
| Color of Wire | Μ | |
| Terminal No. | 2 | |

Signal Name

Color of Wire

Terminal No. က

H.S. E

1

BB ш



COMBI SW OUTPUT 5 COMBI SW OUTPUT 4 COMBI SW OUTPUT 3 COMBI SW OUTPUT 2 COMBI SW OUTPUT 1

GR 0

88 88

32 9

COMBI SW INPUT 1 Signal Name

ш

Color of Wire

Terminal No.



IGN SW CAN-H CAN-L

W/R

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33 4

BR ГG

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

| Signal Name | GND (POWER) | POWER WINDOW POWER SUPPLY (RAP) | BAT (F/L) |
|-------------------|-------------|------------------------------------|-----------|
| Color of Wire | В | 0 | W |
| Terminal No. Wire | 29 | 89 | 20 |

| Connector No. | M18 |
|-----------------------|--|
| Connector Name | Connector Name BCM (BODY CONTROL MODULE) |
| Connector Color WHITE | WHITE |
| | |

| _ | | 19 | 39 | ı |
|-------------------------|-------|----------------------------|----------------|---|
| | | 18 | 38 | ı |
| | | 17 | 37 | ı |
| | | 16 | 36 | ı |
| | | 15 | 34 35 36 | ı |
| | | 10 11 12 13 14 15 16 17 18 | 34 | ı |
| | | 13 | 33 | ı |
| | l 117 | 12 | 30 31 32 | ı |
| | | 11 | 31 | ı |
| ш | IN | 10 | 30 | ı |
| - | | 6 | 29 | ı |
| ⋛ | | 8 | 28 | ı |
| | | 7 | 26 27 | ı |
| ፩│ | | 9 | 26 | ı |
| 3 | | 2 | 25 | ı |
| ō | | 4 | 24 | ı |
| ec. | 16 | 3 | 23 | ı |
| Connector Color WHITE | T.S. | 2 | 21 22 23 24 25 | |
| 3 | 慢 | Ē | 21 | |
| | | | | _ |

| Signal Name | COMBI SW INPUT 5 | COMBI SW INPUT 4 | COMBI SW INPUT 3 | COMBI SW INPUT 2 |
|------------------|------------------|------------------|------------------|------------------|
| Color of Wire | Ь | SB | ^ | ٦ |
| Terminal No. | 2 | 8 | 4 | 2 |

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| Connector No. | o. M24 ame COME | Connector No. M24 Connector Name COMBINATION METER | Connector No. | o. M28 ame COM | Connector No. M28 Connector Name COMBINATION SWITCH | Terminal No. | Color of Wire | Signal Name | |
|-------------------------|--------------------|--|-----------------|-------------------|--|--|------------------|-------------|---|
| Connector Color | olor WHITE | Щ | Connector Color | olor WHITE | 1 | 6 | SB | OUTPUT 4 | |
| | | | | | | 10 | ^ | OUTPUT 3 | |
| 是 H.S. | | | H.S. | 12 13 14 11 | 10 9 8 7 1 2 3 4 5 6 | | | | ı |
| 00 04 04 04 04 04 00 | \ | | | | | | | | |
| 40 39 38 37 36 35 34 33 | 35 34 33 32 | 29 28 27 26 25 24 | Terminal No. | Color of Wire | Signal Name | | | | |
| | Color of | | - | LG | INPUT 1 | | | | |
| Terminal No. | | Signal Name | 2 | BR | INPUT 2 | | | | |
| က | R/Y | ſ | 3 | В | INPUT 3 | | | | |
| 11 | ۵ | 1 | 4 | GR | INPUT 4 | | | | |
| 12 | Г | - | 2 | 0 | INPUT 5 | | | | |
| 13 | GR | ı | 9 | ш | OUTPUT 1 | | | | |
| 22 | BR | ı | 7 | _ | OUTPUT 2 | | | | |
| 23 | В | ı | 80 | ۵ | OUTPUT 5 | | | | |
| | | | | | | | | | |
| Connector No. | | | Connector No. | | | Terminal No. | _ | Signal Name | |
| Connector Name | | COMBINATION SWITCH | Connector Name | _ | WIRE TO WIRE | JOP TO STATE OF THE STATE OF TH | Wire | | |
| Connector Color | | (\ \\ | Connector Color | olor WHITE | 担 | 2084 | > | I | _ |
| | _ | | | | | | | | |
| E E | 24 28 | 24 25 26 27 | H.S. | | 56 440 369 26 16 110 96 86 76 66 | | | | |
| | 31 3% | 32 33 34 | | 216 206 196 | 21G 20G 19G 1 19G 1 19G 1 15G 1 14G 13G 1 2G 1 1G 30G 25G 25G 25G 25G 25G 25G 25G 25G | | | | |
| Terminal No. | Color of Wire | Signal Name | | 416 406 386 | (300 400 300 300 300 300 300 300 300 300 | | | | |
| 26 | Я | ILL+ | 1 | 616 606 596 | 510 800 590 580 570 580 550 550 530 520 510 | | | | |
| 27 | G | ILL- | | 706,696 | 88G 67G 66G 65G 64G 63G 62G | | | | |
| | | | | | 756 746 726 776 776 786 | | | | |
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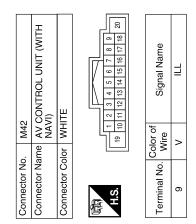
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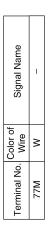
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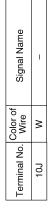
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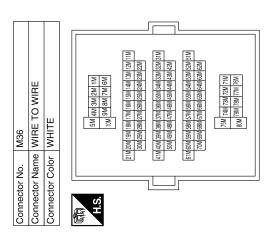
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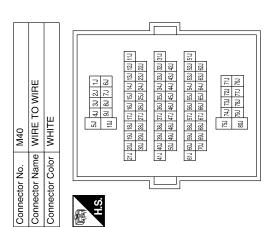
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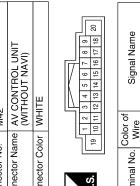


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< COMPONENT DIAGNOSIS >



| 10 11 12 13 14 15 16 17 18 20 | Signal Name | _ | - |
|-------------------------------|------------------|----|---|
| 19 10 11 5 | Color of Wire | GR | œ |
| H.S. | Terminal No. | 8 | 6 |



| CI. | AV CONTROL UNIT (WITHOUT NAVI) | ITE | 3 4 5 6 7 8 9 12 13 14 15 16 17 18 20 | Signal Name | +711 |
|---------------|-----------------------------------|-----------------|---------------------------------------|------------------|------|
| M42 | | or WHITE | 9 10 11 | Color of Wire | ۸ |
| Connector No. | Connector Name | Connector Color | 励 H.S. | Terminal No. | 6 |
| | | | | | |

| N | DIO UNIT | IITE | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 | Signal Name | TAIL/ILL RLY |
|---------------|-----------------------------|-----------------------|---|------------------|--------------|
| M4Z | me AU | lor WF | 19 10 11 | Color of Wire | Ж |
| Connector No. | Connector Name AUDIO UNIT | Connector Color WHITE | 麻斯 H.S. | Terminal No. | 6 |

| | | _ | | | | _ |
|---------------|----------------|-----------------|-----------|------------------|---|----|
| | HAZARD SWITCH | щ | 2 4 | Signal Name | ı | _ |
| M55 | | or WHITE | | Color of Wire | æ | BR |
| Connector No. | Connector Name | Connector Color | 刷 H.S. | Terminal No. | ဧ | 4 |

| Connector No. | a di | M49 EBONT AIR CONTROL | |
|-------------------------|------------------|--|----------|
| | WITH | (WITH AUTOMATIC A/C) | |
| Connector Color BLACK | ilor BLAC | <u> </u> | - |
| 恒 | 13 12 11 10 9 | 9 8 7 6 5 4 3 2 | _ |
| H.S. | 26 25 24 23 2 | 26 25 24 23 22 21 20 19 18 17 16 15 14 | _ |
| IJ | | | i |
| Terminal No. | Color of Wire | Signal Name | |
| 8 | G | _ | |
| 6 | BR | - | |

| Connector No. | . M49 | | | | | | | | |
|-----------------|--|-------|-----|-------------|----------|-----|------|-----|---|
| Connector Name | we FRONT AIR CONTROL (WITH MANUAL A/C) | I A A | l∝z | l윉록 | ≥≥ | [ĔÛ | 님 | | |
| Connector Color | olor BLACK | 노 | | | | | | | |
| | | | | | | | | | |
| E E | 13 12 11 10 9 | ∞ | - | 9 | 5 | 4 | 3 2 | 2 1 | |
| H.S. | 26 25 24 23 22 21 20 19 18 17 16 15 | 2 21 | 8 | 6 | - | 7 | 9 | 14 | |
| 1 | | | | | | | Ш | | I |
| Terminal No. | Color of Wire | | Š | Signal Name | <u>=</u> | \a | ايةا | | |
| 8 | 9 | | | | 1 | | | | |
| 6 | BR | | | | 1 | | | | |

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| Signal Name | - | ı |
|------------------|---|---|
| Color of Wire | G | В |
| Terminal No. | 2 | 9 |

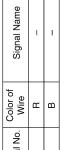






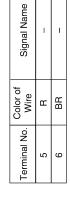


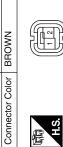
| Signal Naı | 1 | - |
|------------------|---|---|
| Color of Wire | æ | В |
| Terminal No. | - | 2 |



| Connector No. | M96 | |
|-----------------------|---------------------------------------|-----------|
| Connector Na | Connector Name PEDAL ADJUSTING SWITCH | NG SWITCH |
| Connector Color BROWN | or BROWN | |
| | | |







Connector No. M59
Connector Name GLOVE BOX LAMP

| Color of Wire | В | |
|------------------|---|--|
| Terminal No. | 1 | |

Signal Name

Color of Wire

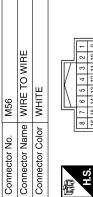
Terminal No.

| Sign | | | |
|------------------|---|---|--|
| Color of Wire | В | В | |
| Terminal No. | 1 | 2 | |

| l | | | |
|---------------|-----------------------------|-----------------------|-----------|
| | | | - |
| | | | 2 |
| | 岸 | | е |
| | IM C | | 7 6 5 4 3 |
| | <u>~</u> | ш | 4 |
| - | 胐 | <u></u> | 5 |
| M91 | <u> </u> | W | 9 |
| | 0) | | ^ |
| Connector No. | Connector Name WIRE TO WIRE | Connector Color WHITE | Œ |



| Signal Na | 1 | 1 |
|------------------|----|----|
| Color of Wire | Ь | ٦ |
| Terminal No. | 10 | 11 |









| I | Ι | |
|----|----|--|
| BB | SB | |
| 14 | 15 | |

| M76 | Connector Name ELECTRIC BRAKE (PRE-WIRING) | WHITE | |
|---------------|--|-----------------------|---|
| Connector No. | Connector Name | Connector Color WHITE | ą |





| Signal | ' | • |
|------------------|---|---|
| Color of Wire | В | В |
| Terminal No. | 1 | 4 |

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| | r | |
|-------------------------------|------------------|-------------|
| Connector No. | . M154 | |
| Connector Name VDC OFF SWITCH | me VDC (| DFF SWITCH |
| Connector Color | lor GRAY | |
| H.S. | 9 | 4 3 2 1 |
| Terminal No. | Color of Wire | Signal Name |
| က | Ж | ı |
| 4 | BR | ı |

| | 2 2 | Sign | | |
|----------------------|------|------------------|---|----|
| GHA | 8 | Color of Wire | В | BR |
| Connector Color GRAY | H.S. | Terminal No. | 3 | 4 |
| | | | | |

| Connector Name 4WD SHIFT SWITCH | | | | | | |
|-----------------------------------|---------------|--------------|-----------|------------------|---|----|
| Connector Name 4WD | SHIFT SWITCH | | 4 5 6 7 8 | Signal Name | Ì | l |
| Connector National No. | me 4WD | or GHAY | 123 | Color of Wire | В | BR |
| | Connector Na. | Connector Co | H.S. | Terminal No. | 7 | 8 |

| Connector No. | o. M98 | |
|-----------------|------------------|-----------------------------------|
| Connector Name | | A/C AND AV SWITCH ASSEMBLY |
| Connector Color | olor WHITE | щ |
| 南 H.S. | 4 6 | 6 8 10 12 14 16 5 7 9 11 13 15 |
| Terminal No. | Color of Wire | Signal Name |
| 3 | 57 | ILL |
| 4 | BB | ILL_CONT_GND |

| Connector No. |). M156 | |
|-----------------------|-------------------|---|
| Connector Na | ame A/T D MODE | Connector Name A/T DEVICE (WITH MANUAL MODE SWITCH) |
| Connector Color WHITE | olor WHIT | Ш |
| H.S. | 2 4 4 | 5 6 8 10 |
| Terminal No. | Color of Wire | Signal Name |
| က | Ж | 1 |
| 2 | BR | ı |

| Connector No. | QC IM | |
|-----------------------|-------------------|--|
| Connector Na | me A/T DE MANU | Connector Name A/T DEVICE (WITHOUT MANUAL MODE SWITCH) |
| Connector Color WHITE | or WHITE | |
| 顾 H.S. | 1 2 3 | S 6 8 10 |
| Terminal No. | Color of Wire | Signal Name |
| ဗ | В | - |
| 5 | BR | - |

| | SWITCH | | 2 | Signal Name | I | I |
|---------------|-----------------------------|-----------------|------|---------------|---|----|
| M155 | WHITE STATES | | | Color of Wire | В | BR |
| Connector No. | Connector Name HDC SWITCH | Connector Color | H.S. | Terminal No. | 5 | 9 |

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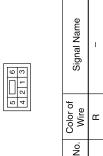
< COMPONENT DIAGNOSIS >

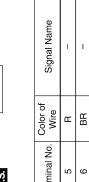


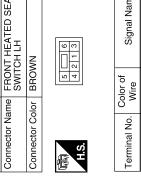
Connector Name DOOR MIRROR REMOTE CONTROL SWITCH

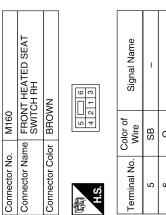
Connector No. M159

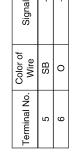
Connector Color WHITE











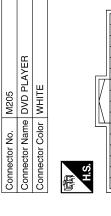
Signal Name

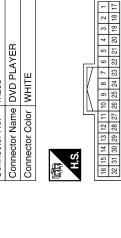
Color of Wire HH HH Œ

> Terminal No. 15 16

H.S. E







| Signal Name | I | I | |
|------------------|----|----------|--|
| Color of Wire | SB | В | |
| nal No. | 2 | <i>"</i> | |

Signal Name

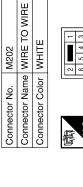
Color of Wire

Terminal No.

≟ #

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| | TO WIRE | ш | 2 3 4 5 6 7 8 10 11 12 13 14 15 16 | 00000 |
|---------------|-----------------------------|-----------------------|------------------------------------|----------|
| M201 | WIRE | WHIT | 10 11 12 12 12 13 14 | Color of |
| Connector No. | Connector Name WIRE TO WIRE | Connector Color WHITE | 斯 H.S. | Co Co |

| Signal Name | I | I |
|------------------|----|----|
| Color of Wire | BR | SB |
| Terminal No. | 14 | 15 |

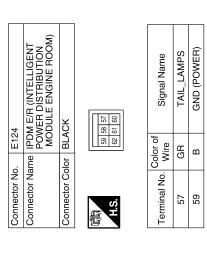


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|--------------------|---------------------------------|-----------------------|---|-------------------|----------|----|
| | TO WIRE | 世 | 9 10 11 12 13 14 15 16 7 | Signal Name | ı | 1 |
| E26 | ne WIRE | or WHIT | 8 9 10 | Color of Wire | Ь | _ |
| Connector No. | Connector Name WIRE TO WIRE | Connector Color WHITE | H.S. | Terminal No. Wire | 10 | ÷ |
| | | | | | <u> </u> | 1 |
| | E TO WIRE | ІТЕ | 2 9 9 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | Signal Name | 1 | |
| . E10 | me WIR | lor WH | - s | Color of Wire | 8 | |
| Connector No. E10 | Connector Name WIRE TO WIRE | Connector Color WHITE | 用.S. | Terminal No. Wire | 7 | |
| | | | | | | |
| | Connector Name REAR AIR CONTROL | | 9 4 5 | Signal Name | GND | + |
| M209 | ne REAR | or BLACE | 6 7 7 8 8 3 | Color of Wire | В | G |
| Connector No. M209 | connector Nan | Connector Color BLACK | H.S. | erminal No. | 1 | 10 |

| | | | , | | | | | | | | | | | | | |
|---------------|----------------|-----------------|---|-------|-----------------|---|-------------------------------------|---|-------------------------------------|---|-------------------------------------|---------------------|---------------------|---|------------------|-----|
| E152 | WIRE TO WIRE | WHITE | | 26 36 | 86 76 86 94 106 | 116 126 136 146 156 166 176 186 196 206 216 | 226 236 246 256 266 276 286 296 306 | 316 326 336 346 356 366 376 386 396 406 416 | 426 436 446 456 466 476 486 496 506 | 516 526 536 546 556 566 576 586 596 605 616 | 62G 63G 64G 65G 66G 67G 68G 69G 70G | 71G 72G 73G 74G 75G | 76G 77G 78G 79G 80G | | ا Signal Name | ı |
| | _ | - | | | | 116 12 | 52 | 316 32 | 42 | 516 52 | 8 | | | | Color of Wire | > |
| Connector No. | Connector Name | Connector Color | | H.S. | | | | | | | | | | _ | Terminal No. | 49G |



| Connector No. | . E122 | [2] |
|-----------------|------------------|--|
| Connector Name | | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | lor WHITE | ITE |
| 明.S. | 42 41 47 47 | 41 40 39 38 37 44 43 |
| Terminal No. | Color of Wire | Signal Name |
| 38 | В | GND (SIGNAL) |
| 39 | ٦ | CAN-H |
| 40 | Ь | CAN-L |

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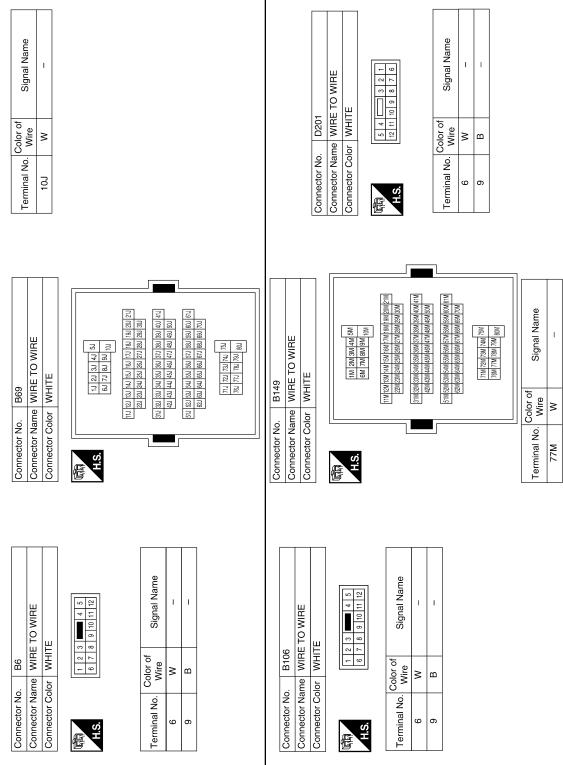
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< COMPONENT DIAGNOSIS >

| Connector No. | D203 | 3 | Connector No. | D301 | | Connector No. | | D303 |
|-----------------|------------------|-----------------------------|----------------------------|---------------|----------------|-----------------|---------------|--------------------------------|
| Connector Name | | REAR POWER WINDOW SWITCH LH | Connector Name | | WIRE TO WIRE | Connector Name | | REAR POWER WINDOW SWITCH RH |
| Connector Color | - 1 | | | П | ш | Connector Color | | WHITE |
| 是 H.S. | - 4 | 5 6 7 8 | H.S. | 12 11 | 10 9 8 3 7 7 8 | E.S. | | 4 5 6 7 8 |
| Terminal No. | Color of Wire | Signal Name | Color of Terminal No. Wire | color of Wire | Signal Name | Terminal No. | Color of Wire | of Signal Name |
| 2 | В | ı | 9 | 8 | 1 | 2 | В | 1 |
| 80 | > | ı | 6 | В | 1 | 80 | > | ı |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Description INFOID:000000001712591

REFERENCE VALUES FOR BCM

For BCM reference values, refer to BCS-38, "Reference Value".

TERMINAL LAYOUT FOR BCM

For the terminal layout for the BCM, refer to BCS-41, "Terminal Layout".

PHYSICAL VALUES FOR BCM

For physical values for the BCM, refer to BCS-41, "Physical Values".

WIRING DIAGRAM - BCM

For the BCM wiring diagram, refer to BCS-47, "Wiring Diagram".

DTC INSPECTION PRIORITY CHART - BCM

For the BCM DTC inspection priority chart, refer to BCS-50, "DTC Inspection Priority Chart".

DTC INDEX - BCM

For the BCM DTC index, refer to BCS-51, "DTC Index".

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 is detected.

| Symptom | Possible cause | Inspection item |
|---|--|--|
| All of the following lamps do not turn ON Front room/map lamp assembly Personal lamp 2nd row (with rear map lamps) Room lamp 2nd row (without rear map lamps) Cargo room lamp Vanity mirror lamps (if equipped) Ignition keyhole illumination | Harness between BCM and each interior room lamp Harness between BCM and each door switch BCM | Battery saver output/power supply circuit Refer to INL-16. |
| Some or all of the following interior room lamps do not turn ON/OFF • Front room/map lamp assembly • Personal lamp 2nd row (with rear map lamps) • Room lamp 2nd row (without rear map lamps) | Harness between BCM and each interior room lamp BCM | Interior room lamp control circuit Refer to <u>INL-18</u> . |
| Cargo lamp does not turn ON/OFF | Harness between BCM and cargo lamp BCM | Cargo lamp circuit Refer to <u>INL-20</u> . |
| Ignition keyhole illumination does not turn ON/ OFF | Harness between BCM and cargo lamp BCM | Ignition keyhole illumination circuit Refer to INL-22 |
| Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.) | _ | Check the interior room lamp setting. Refer to INL-11. |
| Interior room lamp battery saver does not activate. | _ | Check the interior room lamp battery saver setting. Refer to INL-11. |

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PRECAUTION

PRECAUTIONS

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSION-ER"

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 SR and SB section 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 SR section.
- 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.

General precautions for service operations

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- When removing or disassembling any part, be careful not to damage or deform it. Protect parts which may
 get in the way with cloth.
- When removing parts with a screw driver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If an non-reuseable part is removed, replace it with a new one.
- After re-assembly has been completed, make sure each part functions correctly.
- · Never work with wet hands.
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- Do not use organic solvent (paint thinner or gasoline) to clean lamps or remove sealant residue.

ON-VEHICLE REPAIR

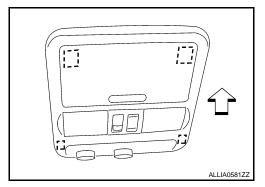
INTERIOR ROOM LAMP

Removal and Installation

MAP LAMP

Removal

The map lamp is replaced as part of the overhead console assembly. Refer to INT-16, "Removal and Installation".



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Installation

Installation is in the reverse order of removal.

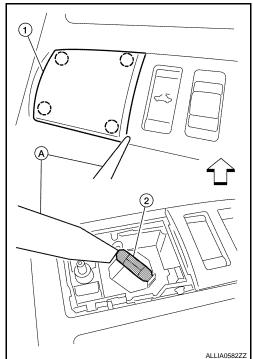
Bulb Replacement

- 1. Disconnect the negative battery terminal.
- Using a suitable tool (A), remove map lamp lens (1).⇐: Vehicle frontCAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Map lamp bulb : 12V - 8W



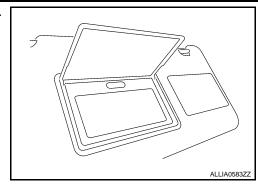
VANITY MIRROR LAMP

Removal

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

The vanity mirror lamp is replaced as part of the sunvisor assembly. Refer to <u>INT-16</u>, "Removal and Installation".



Installation

Installation is in the reverse order of removal.

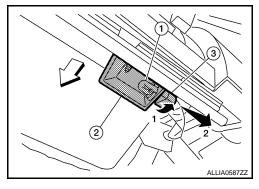
Bulb Replacement

The vanity mirror lamp bulb is replaced as part of the sunvisor assembly. Refer to INT-16, "Removal and Installation".

GLOVE BOX LAMP

Removal

- 1. Remove lower instrument panel RH and glove box. Refer to IP-10, "Removal and Installation".
- Rotate glove box lamp socket (3) with bulb (1) counterclockwise, then pull away from lamp shield (2) on steering member to remove.



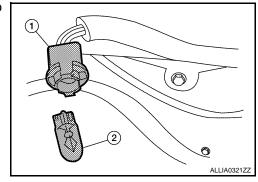
Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Disconnect the negative battery terminal.
- 2. Remove glove box lamp.
- 3. Pull bulb (2) straight out from glove box lamp socket (1) to remove.

Glove box lamp bulb : 12V - 3.4W



PERSONAL LAMP

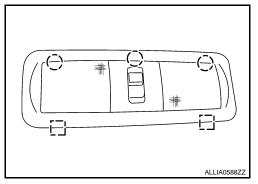
Removal

Disconnect the negative battery terminal.

INTERIOR ROOM LAMP

< ON-VEHICLE REPAIR >

- 2. Release the clips and remove personal lamp from headlining. Refer to INT-16, "Removal and Installation".
- 3. Disconnect personal lamp electrical connector, then remove from overhead console.



Installation

Installation is in the reverse order of removal.

Bulb Replacement

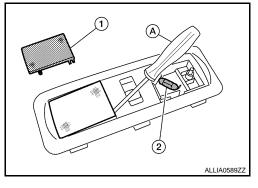
- 1. Remove personal lamp.
- 2. Using a suitable tool (A), release the pawls and remove personal lamp lens (1).

CAUTION:

Wrap a cloth around tool to protect the housing and lens.

3. Release one side of the bulb (2) from the tab, then pull straight downward to remove.

Personal lamp bulb : 12V - 8W



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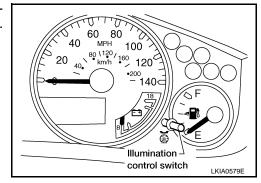
Removal and Installation

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ILLUMINATION CONTROL SWITCH

Removal

The illumination control switch (1) is replaced as a part of the combination meter assembly. Refer to MWI-94, "Removal and Installation".



Installation

Installation is in the reverse order of removal.

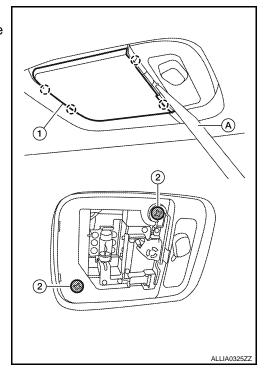
CARGO LAMP

Removal

- Disconnect the negative battery terminal.
- Using a suitable tool (A), release the pawls and remove the cargo lamp lens (1).
 CAUTION:

Wrap a cloth around tool to protect the housing and lens.

- 3. Remove cargo lamp screws (2).
- 4. Disconnect the connector, then remove cargo lamp.



Installation

Installation is in the reverse order of removal.

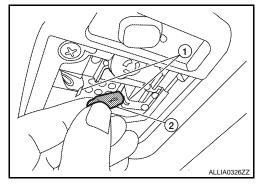
Bulb Replacement

- 1. Disconnect the negative battery terminal.
- 2. Using a suitable tool, release the pawls and remove the cargo lamp lens.

< ON-VEHICLE REPAIR >

3. Release the cargo lamp bulb retainers (1), then pull bulb (2) straight out to remove.

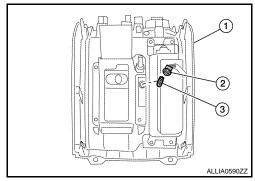
Cargo lamp bulb : 12V - 8W



AT FINISHER LAMP

Removal

- 1. Remove AT finisher from center console. Refer to IP-10, "Removal and Installation".
- 2. Rotate AT finisher lamp socket (2) with bulb (3) counterclockwise, then pull away from finisher (1).



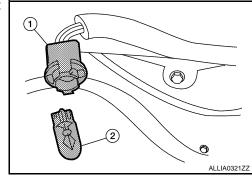
Installation

Installation is in the reverse order of removal.

Bulb Replacement

- 1. Remove AT finisher from center console. Refer to IP-10, "Removal and Installation".
- Remove AT finisher lamp socket (1), then pull bulb (2) straight out away from socket.

AT finisher lamp bulb : 12V - 3W



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BULB SPECIFICATIONS

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SERVICE DATA AND SPECIFICATIONS (SDS)

BULB SPECIFICATIONS

Interior Lamp/Illumination

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| Item | Wattage (W)* |
|-------------------|--------------|
| Map lamp | 8 |
| Vanity lamp | * |
| Glove box lamp | 3.4 |
| Personal lamp | 8 |
| Cargo lamp | 8 |
| A/T finisher lamp | 3 |

^{*:} Always check with the Parts Department for the latest parts information.