

SECTION **INL**

INTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

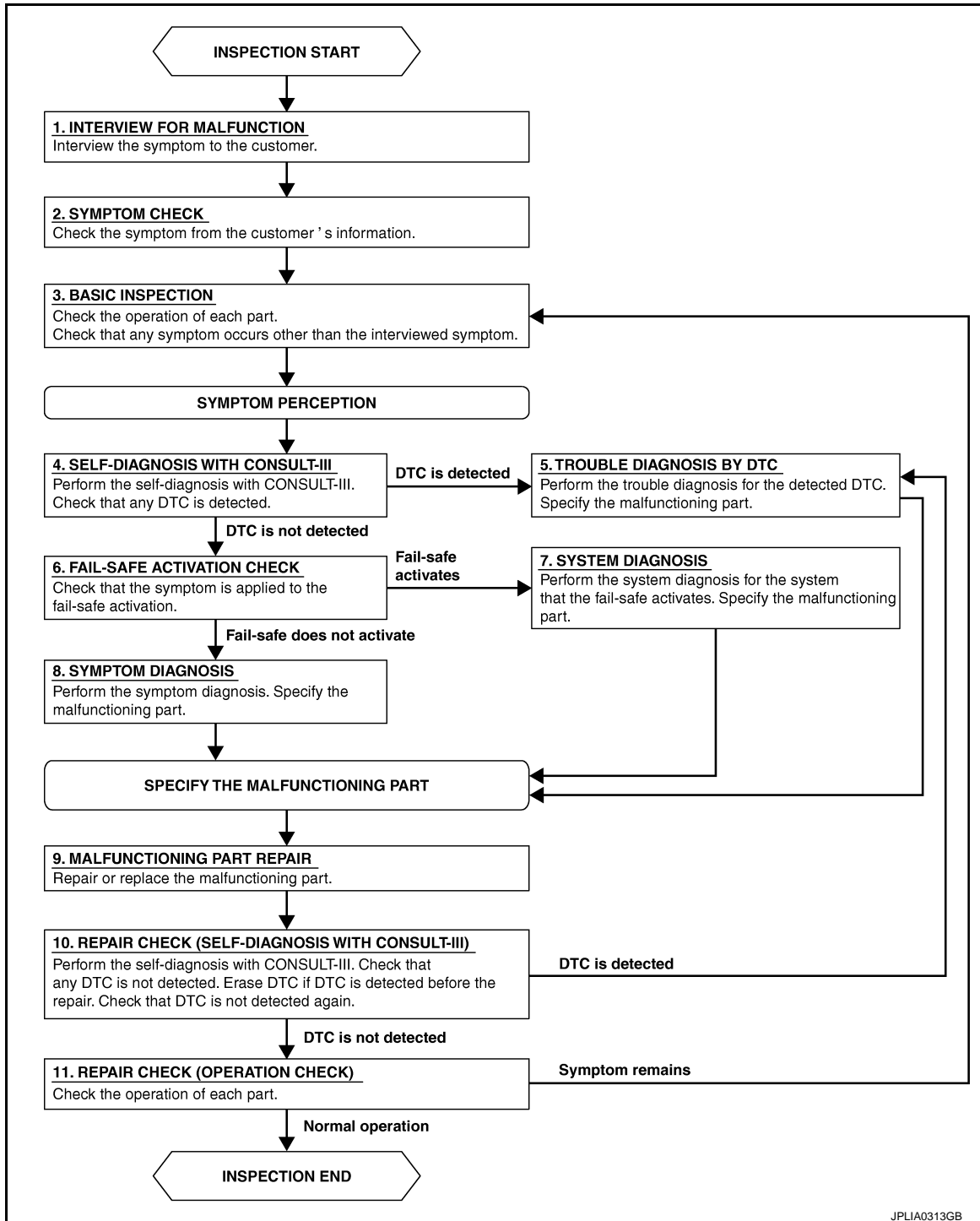
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000006204530

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW FOR MALFUNCTION

Interview the symptom to the customer.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 2.

2. SYMPTOM CHECK

Check the symptom from the customer's information.

>> GO TO 3.

3. BASIC INSPECTION

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

>> GO TO 4.

4. SELF-DIAGNOSIS WITH CONSULT-III

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

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

5. TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9.

6. FAIL-SAFE ACTIVATION CHECK

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

Does the fail-safe activate?

YES >> GO TO 7.

NO >> GO TO 8.

7. SYSTEM DIAGNOSIS

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

>> GO TO 9.

8. SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9. MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

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

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

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> INSPECTION END

NO >> GO TO 3.

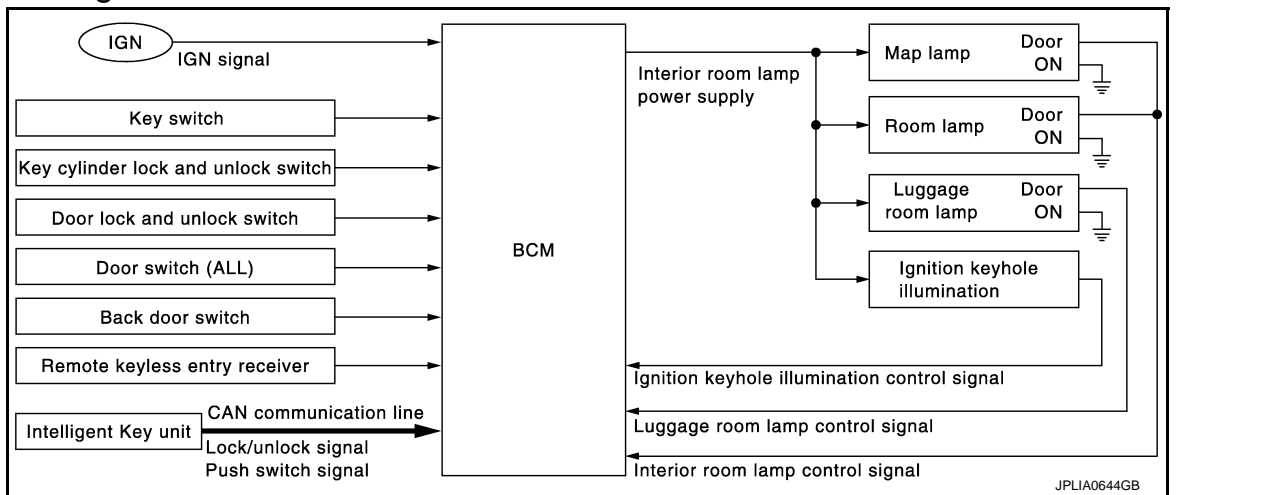
INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

INTERIOR ROOM LAMP CONTROL SYSTEM

System Diagram



System Description

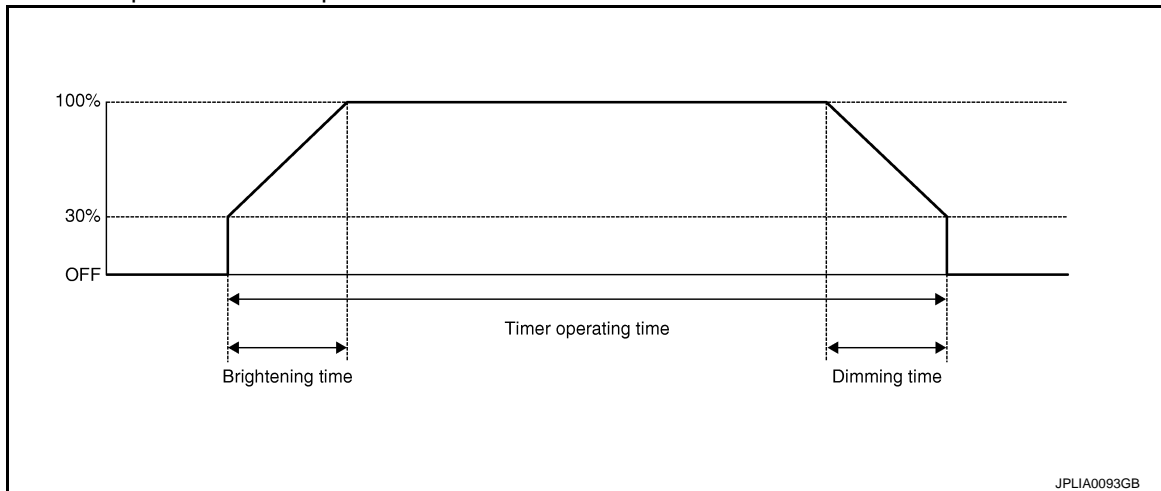
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OUTLINE

- Interior room lamps* are controlled by interior room lamp timer control function of BCM.
*: Map lamp, room lamp and ignition keyhole illumination (when map lamp and room lamp switch is in DOOR position).
- Luggage room lamp is controlled by luggage room lamp control function of BCM.

INTERIOR ROOM LAMP TIMER CONTROL

Interior Room Lamp Timer Basic Operation



- The interior room lamp turns ON and OFF (gradual brightening and dimming) by the interior room timer.
- BCM judges the vehicle condition with the following items. It activates the interior room lamp timer.
 - Ignition switch status
 - Door switch signal (ALL)
 - Door lock/unlock signal (Remote keyless entry receiver, Intelligent Key unit, key cylinder door lock and unlock switch, door lock and unlock switch)
 - Key switch signal
 - Push switch signal

NOTE:

Each function of interior room lamp timer can be set by CONSULT-III. Refer to [INL-15. "INT LAMP : CONSULT-III Function \(BCM - INT LAMP\)"](#).

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Interior Room Lamp ON Operation

- BCM always turns the interior room lamp ON when any door opens.
- BCM activates the interior room lamp timer in any of the following conditions to turn the interior room lamp ON for a period of time.
 - Any door opened and all doors closed.
 - Key switch is turned ON → OFF.
 - All door unlock signal is detected when all doors close with ignition switch OFF.
 - Push switch is turned ON → OFF.

NOTE:

Restart the timer if new condition is input during the timer operating time.

Interior Room Lamp OFF Operation

BCM stops the timer in any of the following conditions to turns the interior room lamp OFF.

- The timer operating time is expired.
- Ignition switch position is ON with all doors close.
- All door lock operation is detected with all doors close (when locked with the door lock and unlock switch, ignition keyhole illumination to be turned OFF when the time up).

LUGGAGE ROOM LAMP CONTROL

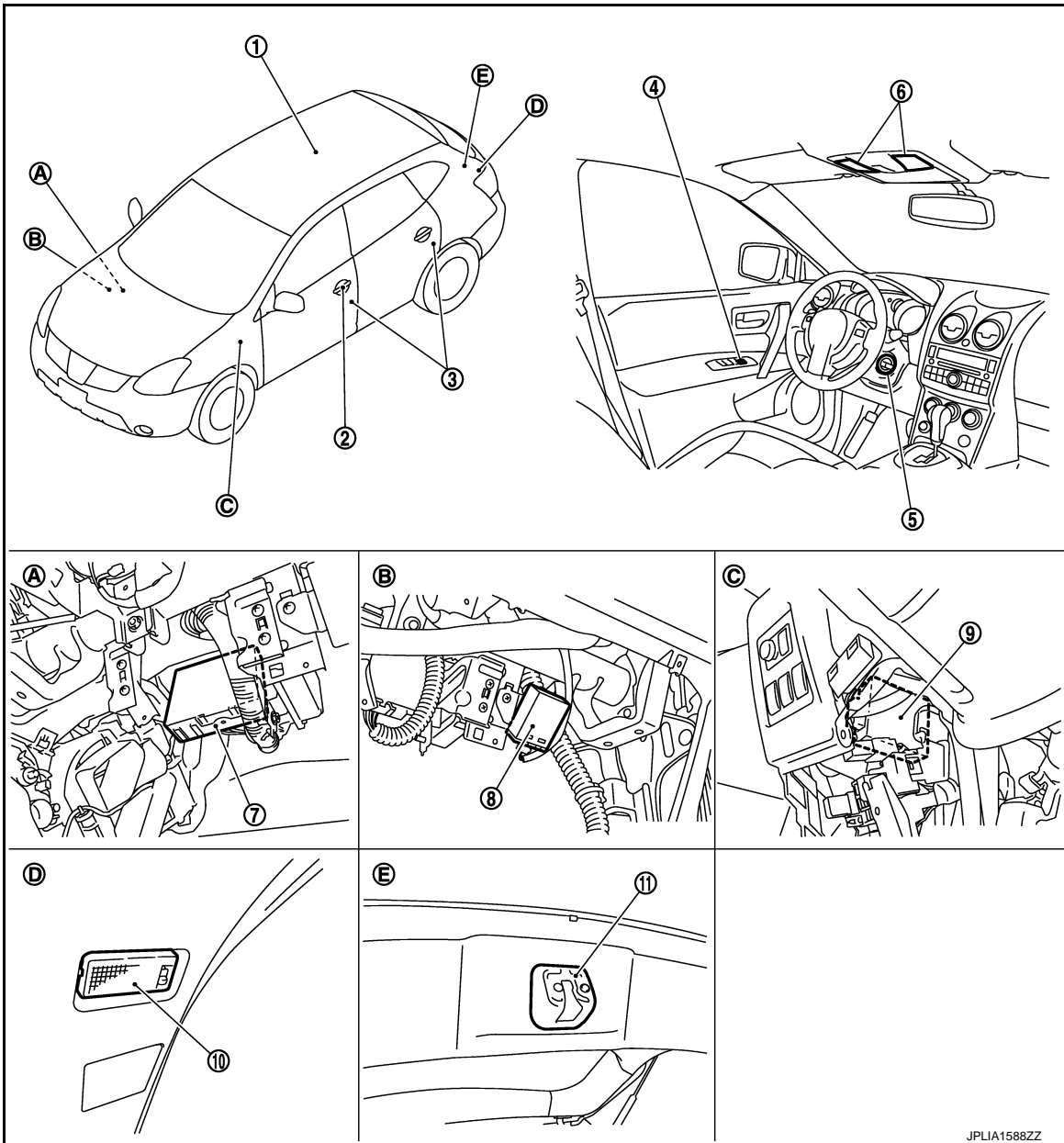
BCM controls the luggage room lamp (ground-side) to turn ON with the back door switch ON (when luggage room lamp switch is in DOOR position).

INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|----------------------------------|---|---|
| 1. Room lamp | 2. Key cylinder door lock and unlock switch | 3. Door switch |
| 4. Door lock and unlock switch | 5. • Key switch • Push switch (With Intelligent Key system) • Ignition keyhole illumination | 6. Map lamp |
| 7. BCM | 8. Remote keyless entry receiver (Without Intelligent Key system) | 9. Intelligent Key unit (With Intelligent Key system) |
| 10. Luggage room lamp | 9. Back door switch | |
| A. Over the glove box | B. Over the glove box | C. Over the instrument lower panel (driver side) |
| D. Back door trim finisher lower | E. Back door lock assembly | |

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INTERIOR ROOM LAMP CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Description

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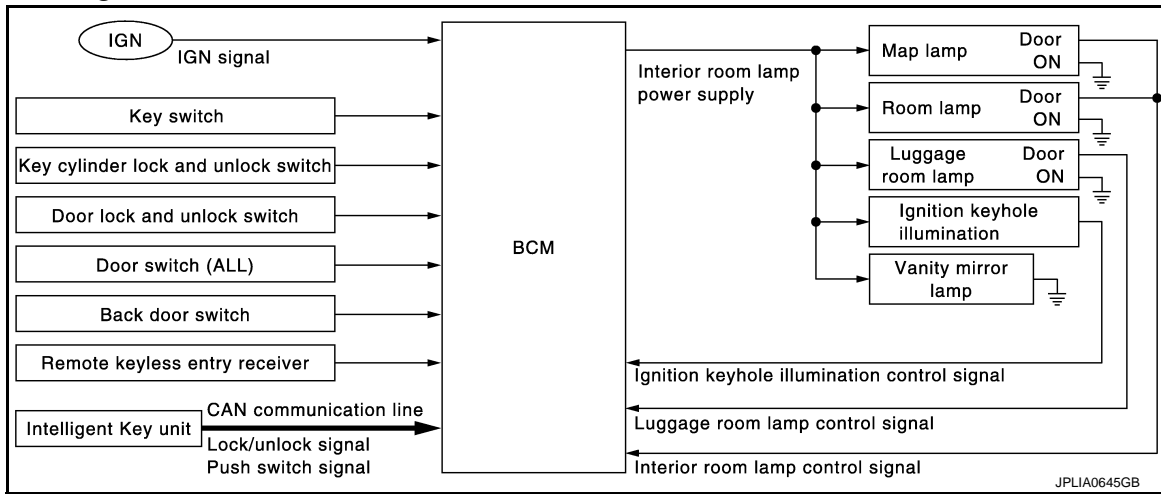
| Part | Description |
|--|---|
| BCM | Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF. |
| Remote keyless entry receiver | <ul style="list-style-type: none">• Receives the lock/unlock signal from Keyfob.• Transmits the lock/unlock signal to BCM. |
| Intelligent Key unit | Transmits the lock/unlock signal and push switch signal to BCM with CAN communication. |
| <ul style="list-style-type: none">• Door lock and unlock switch• Key cylinder door lock and unlock switch | Inputs the lock/unlock signal to BCM. |
| <ul style="list-style-type: none">• Door switch• Back door switch | Inputs the door switch signal to BCM. |
| Key switch | Inputs the key switch signal to BCM. |

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

INFOID:000000006204536

OUTLINE

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

Applicable lamps

- Map lamp
- Room lamp
- Ignition keyhole illumination
- Luggage room lamp
- Vanity mirror lamp

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.
- BCM restart 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, Intelligent Key unit, key cylinder door lock and unlock switch, door lock and unlock switch)
 - Key switch signal
 - Push switch signal
- BCM provides the interior room lamp power supply continuously when the ignition switch position is ON.

NOTE:

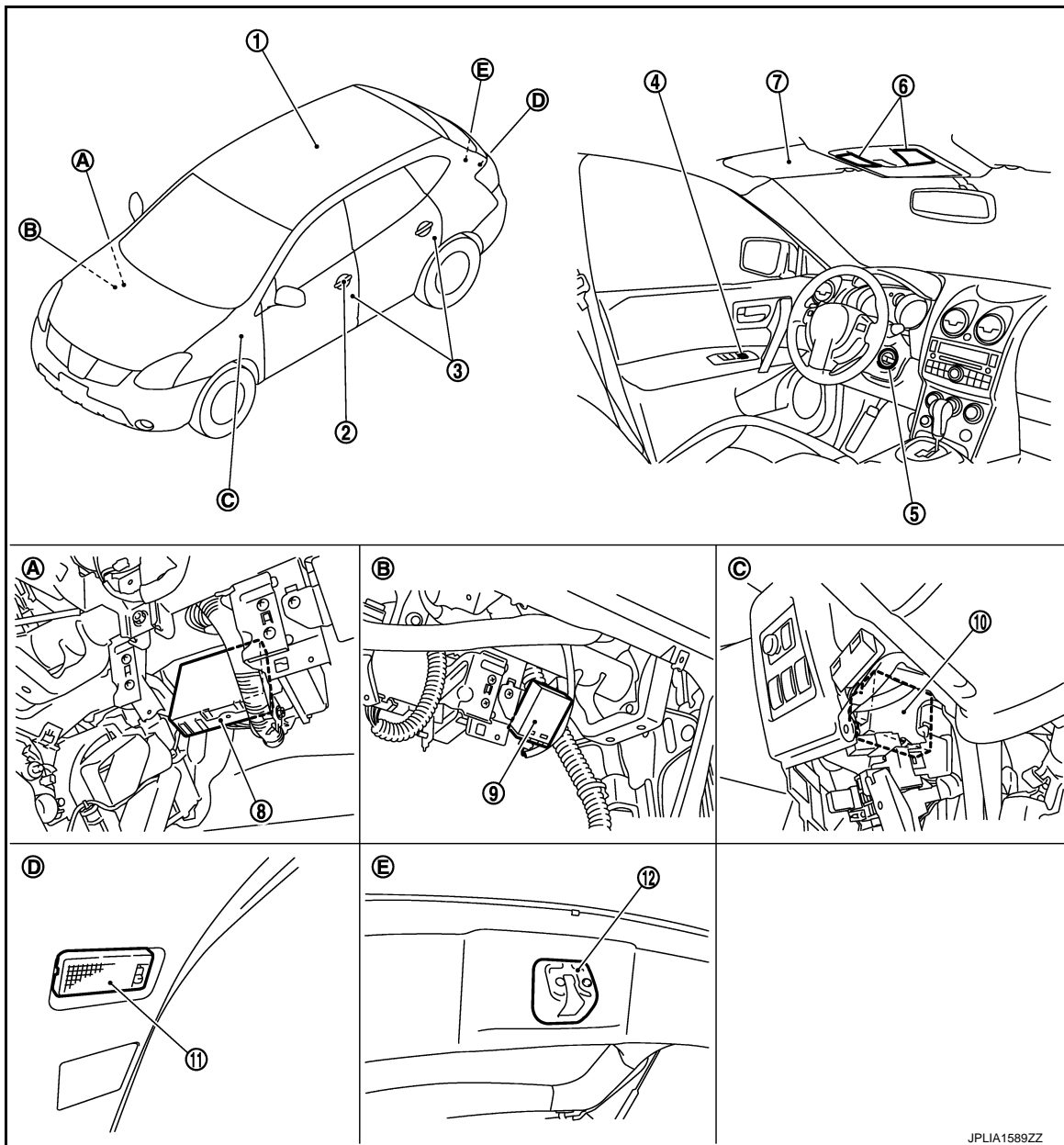
Each function of interior room lamp battery saver can be set by CONSULT-III. Refer to [INL-16, "BATTERY SAVER : CONSULT-III Function \(BCM - BATTERY SAVER\)"](#).

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|--|---|---|
| 1. Room lamp | 2. Key cylinder door lock and unlock switch | 3. Door switch |
| 4. Door lock and unlock switch | 5. <ul style="list-style-type: none"> • Key switch • Push switch (With Intelligent Key system) • Ignition keyhole illumination | 6. Map lamp |
| 7. Vanity mirror lamp | 8. BCM | 9. Remote keyless entry receiver (Without Intelligent Key system) |
| 10. Intelligent Key unit (With Intelligent Key system) | 11. Luggage room lamp | 12. Back door switch |
| A. Over the glove box | B. Over the glove box | C. Over the instrument lower panel (driver side) |
| D. Back door trim finisher lower | Back door lock assembly | |

INTERIOR ROOM LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000006204538

| Part | Description |
|--|---|
| BCM | Operates the interior room lamp battery saver depending on the vehicle condition to cut the interior room lamp power supply. |
| Remote keyless entry receiver | <ul style="list-style-type: none">• Receives the lock/unlock signal from Keyfob.• Transmits the lock/unlock signal to BCM. |
| Intelligent Key unit | Transmits the lock/unlock signal and push switch signal to BCM with CAN communication. |
| <ul style="list-style-type: none">• Door lock and unlock switch• Key cylinder door lock and unlock switch | Inputs the lock/unlock signal to BCM. |
| <ul style="list-style-type: none">• Door switch• Back door switch | Inputs the door switch signal to BCM. |
| Key switch | Inputs the key switch signal to BCM. |

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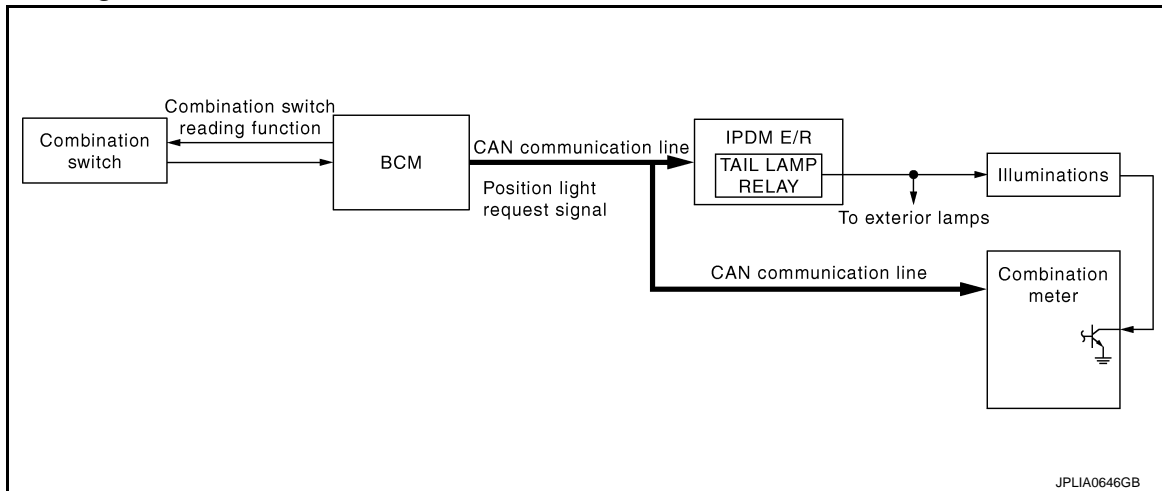
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ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

ILLUMINATION CONTROL SYSTEM

System Diagram



System Description

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OUTLINE

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

Control by BCM

- Combination switch reading function
- Headlamp control function

Control by IPDM E/R

- Relay control function

Control by combination meter

- Meter illumination control function (Refer to [MWI-8, "METER SYSTEM : System Description"](#))

ILLUMINATION CONTROL

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits position light request signal to IPDM E/R and combination meter according to tail lamp ON condition.

Tail lamp ON condition

- Lighting switch 1ST
- Lighting switch 2ND

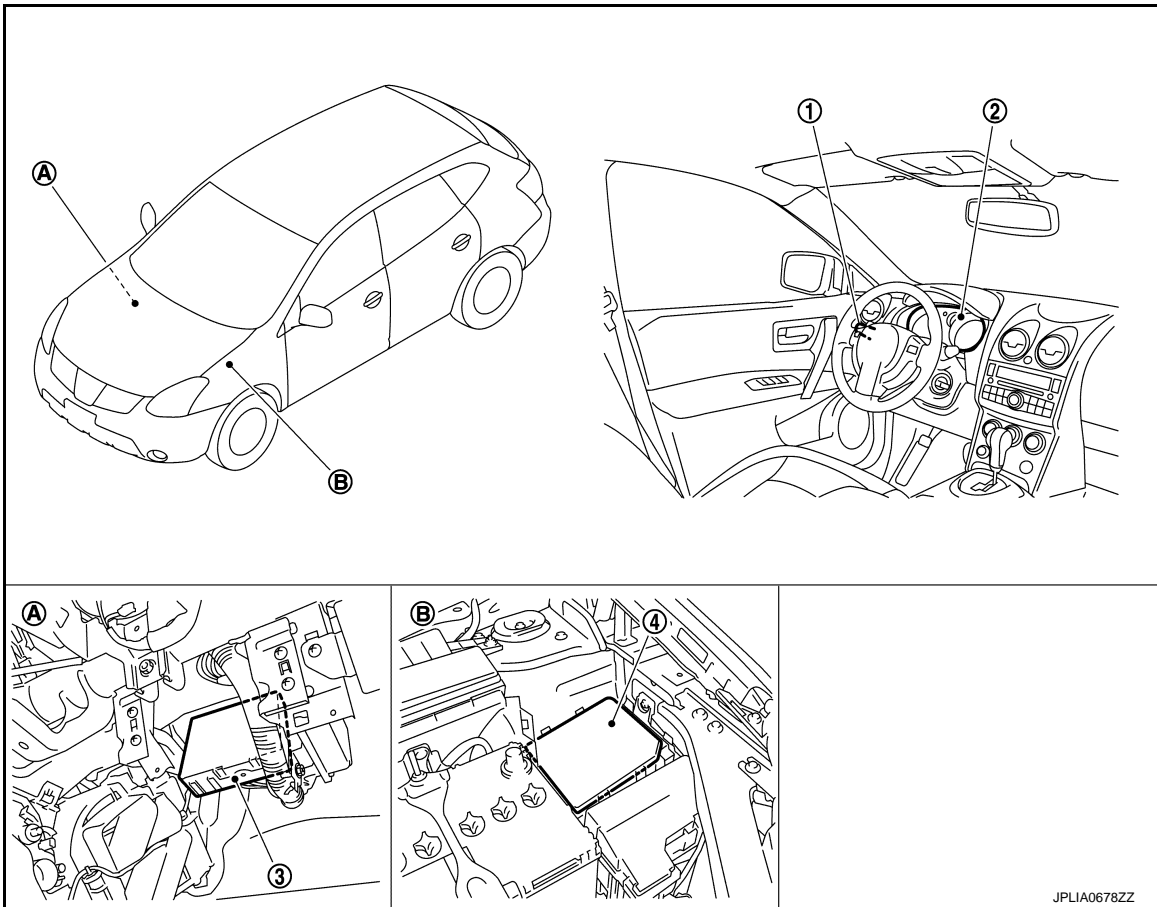
- IPDM E/R turns the integrated tail lamp relay ON according to position light request signal. It provides the power supply to each illumination lamp.
- Combination meter enters in the nighttime mode according to position light request signal. Under the nighttime mode the combination meter controls the illuminance by controlling the each illumination lamp (ground-side).

ILLUMINATION CONTROL SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000006204541



1. Combination switch

4. IPDM E/R

A Over the glove box

2. Combination meter

B. Engine room (LH)

3. BCM

Component Description

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| Part | Description |
|---|--|
| BCM | <ul style="list-style-type: none"> Judges 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 (with CAN communication). |
| IPDM E/R | Controls the integrated relay according to the request signal from BCM (with CAN communication). |
| Combination meter | <ul style="list-style-type: none"> Enters in nighttime mode according to the request from BCM (with CAN communication). Controls each illumination in the nighttime mode. Refer to MWI-8, "METER SYSTEM : System Description" . |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-9, "System Diagram" . |

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

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APPLICATION ITEM

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

| Diagnosis mode | Function description |
|--------------------------|---|
| ECU Identification | BCM part number is displayed. |
| Self-Diagnostic Result | Displays the diagnosis results judged by BCM. Refer to INL-63, "DTC Index" . |
| Data Monitor | BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Work Support | Changes the setting for each system function. |
| Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from 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 | CONSULT-III sub system selection item | Diagnosis mode | | |
|--------------------------------------|---------------------------------------|----------------|--------------|-------------|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp control | INT LAMP | × | × | × |
| Remote keyless entry system | MULTI REMOTE ENT | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | | × | × |
| Air conditioner | AIR CONDITONER | | × | |
| Intelligent Key system | INTELLIGENT KEY | | × | |
| Combination switch | COMB SW | | × | |
| — | BCM | × | | |
| Immobilizer | 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 | | × | × |
| — | FUEL LID* | | | |
| TPMS | TPMS (AIR PRESSURE MONITOR) | × | × | × |
| Panic alarm system | PANIC ALARM | | | × |

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

INT LAMP

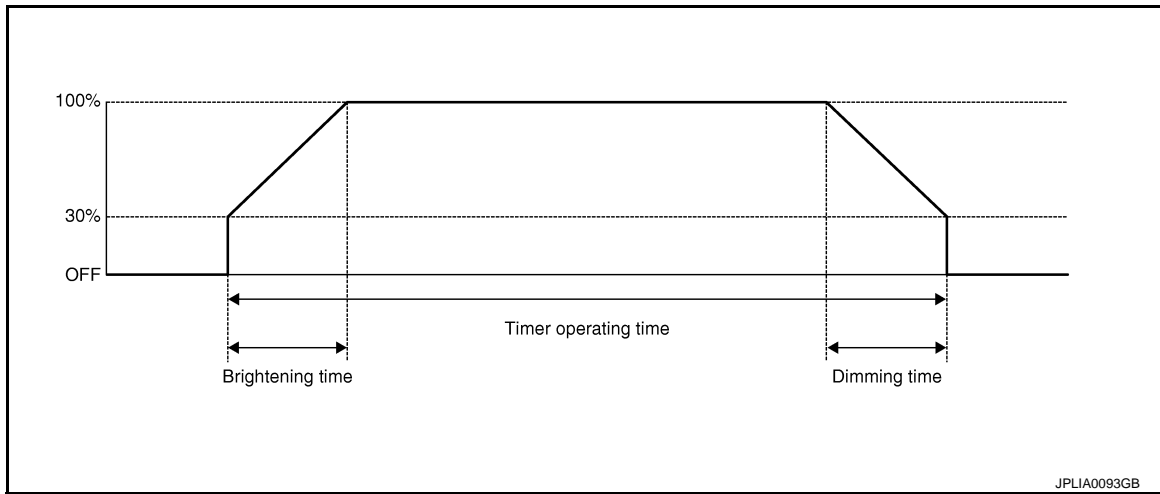
DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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

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WORK SUPPORT



| Service item | Setting item | Setting |
|------------------------|--------------|---|
| SET I/L D-UNLCK INTCON | On* | With the interior room lamp timer function |
| | Off | Without the interior room lamp timer function |
| ROOM LAMP ON TIME SET | MODE 1 | 0.5 sec. |
| | MODE 2* | 1 sec. |
| | MODE 3 | 2 sec. |
| | MODE 4 | 3 sec. |
| | MODE 5 | 4 sec. |
| | MODE 6 | 5 sec. |
| | MODE 7 | 0 sec. |
| ROOM LAMP OFF TIME SET | MODE 1 | 0.5 sec. |
| | MODE 2* | 1 sec. |
| | MODE 3 | 2 sec. |
| | MODE 4 | 3 sec. |
| | MODE 5 | 4 sec. |
| | MODE 6 | 5 sec. |
| | MODE 7 | 0 sec. |

Sets the interior room lamp gradual brightening time.

Sets the interior room lamp gradual dimming time.

*: Factory setting

DATA MONITOR

| Monitor item [Unit] | Description |
|------------------------|--|
| IGN ON SW [On/Off] | Ignition switch (ON) status judges from IGN signal (ignition power supply) |
| KEY ON SW [On/Off] | The switch status input from key switch |
| 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 |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description |
|----------------------------|--|
| 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 input from key cylinder switch |
| KEY CYL UN-SW [On/Off] | Unlock switch status input from key cylinder switch |
| CDL LOCK SW [On/Off] | Lock switch status input from door lock and unlock switch |
| CDL UNLOCK SW [On/Off] | Unlock switch status input from door lock and unlock switch |
| I-KEY LOCK [On/Off] | Lock signal status received from Intelligent Key unit by CAN communication |
| I-KEY UNLOCK [On/Off] | Unlock signal status received from Intelligent Key unit by CAN communication |
| KEYLESS LOCK [On/Off] | Lock 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 interior room lamps ON. [Map lamp, room lamp (when applicable lamps switch is in DOOR position.)] |
| | Off | Stops the interior room lamp control signal to turn the interior room lamps OFF. |
| IGN ILLUM | On | Outputs the ignition keyhole illumination control signal to turn ignition keyhole illumination ON. |
| | Off | Stops the ignition keyhole illumination control signal to turn ignition keyhole illumination OFF. |
| STEP LAMP TEST | On | NOTE: The item is indicated, but not operate. |
| | Off | |
| LUGGAGE LAMP TEST | On | Outputs the luggage room lamp control signal to turn luggage room lamp ON. |
| | Off | Stops the luggage room lamp control signal to turn luggage room lamp OFF. |

BATTERY SAVER

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

INFOID:000000006204545

WORK SUPPORT

| Service item | Setting item | Setting |
|---------------------|--------------|---|
| ROOM LAMP TIMER SET | MODE 1* | 30 min. |
| | MODE 2 | 60 min. |
| | | Sets the interior room lamp battery saver timer operating time. |

*: Factory setting

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description |
|----------------------------|--|
| IGN ON SW [On/Off] | Ignition switch (ON) status judges from IGN signal (ignition power supply) |
| KEY ON SW [On/Off] | The switch status input from key switch |
| 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 |
| BACK DOOR SW [On/Off] | The switch status input from back door switch |
| KEY CYL LK-SW [On/Off] | Lock switch status input from key cylinder switch |
| KEY CYL UN-SW [On/Off] | Unlock switch status input from key cylinder switch |
| CDL LOCK SW [On/Off] | Lock switch status input from door lock and unlock switch |
| CDL UNLOCK SW [On/Off] | Unlock switch status input from door lock and unlock switch |
| I-KEY LOCK [On/Off] | Lock signal status received from Intelligent Key unit by CAN communication |
| I-KEY UNLOCK [On/Off] | Unlock signal status received from Intelligent Key unit by CAN communication |
| KEYLESS LOCK [On/Off] | Lock 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 | Off | Cuts the interior room lamp power supply to turn interior room lamps OFF. |
| | On | Outputs the interior room lamp power supply to turn interior room lamps ON.* |

*: Each lamp switch is in ON position.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000006204546

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not fusing.

| Signal name | Fuses and fusible link No. |
|-----------------------|----------------------------|
| Battery power supply | 10 |
| | J |
| ACC power supply | 20 |
| Ignition power supply | 1 |

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

| Terminals | | (-) | Ignition switch position | | |
|-----------|----------|-------------|--------------------------|-----------------|-----------------|
| (+) | BCM | | OFF | ACC | ON |
| Connector | Terminal | Ground | | | |
| M67 | 70 | | Battery voltage | Battery voltage | Battery voltage |
| | 57 | | | | |
| M65 | 11 | | Approx. 0 V | Battery voltage | Battery voltage |
| | 38 | Approx. 0 V | Approx. 0 V | Battery voltage | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and the ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M67 | 67 | | Existed |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

Description

INFOID:000000006204547

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

Component Function Check

INFOID:000000006204548

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

CONSULT-III ACTIVE TEST

- Turn ignition switch ON.
- Turn each interior room lamp ON.
 - Map lamp
 - Room lamp
 - Ignition keyhole illumination
 - Vanity mirror lamp
 - Luggage room lamp
- Select "BATTERY SAVER" of BCM (BATTERY SAVER) active test item.
- With operating the test items, check that each interior room lamp is turned ON/OFF.

Off : Interior room lamp OFF

On : Interior room lamp ON

Is the interior room lamp turned ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
NO >> Refer to [INL-19, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006204549

1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

CONSULT-III ACTIVE TEST

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

| Terminals | | Test item | Voltage (Approx.) |
|-----------|----------|---------------|-------------------|
| (+) | (-) | | |
| BCM | | BATTERY SAVER | 0 V |
| Connector | Terminal | | |
| M67 | 56 | Off | Battery voltage |
| | | On | |

Is the measurement value normal?

- YES >> GO TO 2.
NO >> Replace BCM. Refer to [BCS-66, "Removal and Installation"](#).

2. CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

- Turn ignition switch OFF.
- Disconnect the following connectors.
 - Map lamp
 - Room lamp
 - Ignition keyhole illumination
 - Vanity mirror lamp (driver side)
 - Vanity mirror lamp (passenger side)
 - Luggage room lamp
- Check continuity between BCM harness connector and each interior room lamp harness connector.

INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| BCM | | Each interior room lamp | | | Continuity |
|-----------|----------|-------------------------------------|------|----------|------------|
| Connector | Terminal | Connector | | Terminal | |
| M67 | 56 | Map lamp | R4 | 1 | Existed |
| | | Room lamp | R15 | 2 | |
| | | Ignition keyhole illumination | M68 | 1 | |
| | | Vanity mirror lamp (driver side) | R14 | 1 | |
| | | Vanity mirror lamp (passenger side) | R10 | 1 | |
| | | Luggage room lamp | D155 | 2 | |

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M67 | 56 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

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

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:000000006204550

Controls each interior room lamp (ground side) by PWM signal.

NOTE:

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

Component Function Check

INFOID:000000006204551

CAUTION:

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

- Interior room lamp power supply
- Map lamp bulb
- Room lamp bulb

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT-III ACTIVE TEST

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

On : Interior room lamp gradual brightening

Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.

NO >> Refer to [INL-21, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006204552

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove all the bulbs of following lamps.
 - Map lamp
 - Room lamp
3. Select "INT LAMP" of BCM (INT LAMP) active test item.
4. With operating the test item, check continuity between BCM harness connector and ground.

| BCM | | Ground | Test item | Continuity |
|-----------|----------|--------|-----------|-------------|
| Connector | Terminal | | INT LAMP | |
| M67 | 63 | Ground | On | Existed |
| | | | Off | Not existed |

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON>>GO TO 3.

Fixed OFF>>Replace BCM. Refer to [BCS-66, "Removal and Installation"](#).

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
 - Map lamp
 - Room lamp

INTERIOR ROOM LAMP CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM harness connector, map lamp harness connector, and room lamp harness connector.

| BCM | | Map lamp/room lamp | | | Continuity |
|-----------|----------|--------------------|-----|----------|------------|
| Connector | Terminal | Connector | | Terminal | |
| M67 | 63 | Map lamp | R4 | 2 | Existed |
| | | Room lamp | R15 | 1 | |

Does continuity exist?

YES >> Replace the map lamp or the room lamp.

NO >> Repair the harnesses or connectors.

3. CHECK INTERIOR ROOM LAMP CONTROL SHORT CIRCUIT

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

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M67 | 63 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to [BCS-66, "Removal and Installation"](#).

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

Description

INFOID:000000006204553

Controls the ignition keyhole illumination (ground side) by PWM signal.

NOTE:

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

Component Function Check

INFOID:000000006204554

CAUTION:

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

- Interior room lamp power supply
- Ignition keyhole illumination bulb

1. CHECK IGNITION KEYHOLE ILLUMINATION OPERATION

CONSULT-III ACTIVE TEST

1. Turn ignition switch ON.
2. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
3. With operating the test items, check that 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-23. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006204555

1. CHECK IGNITION KEYHOLE ILLUMINATION OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove ignition keyhole illumination bulb.
3. Turn ignition switch ON.
4. Select "IGN ILLUM" of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

| BCM | | Ground | Test item | Continuity |
|-----------|----------|--------|----------------|-------------|
| Connector | Terminal | | IGN ILLUM TEST | |
| M65 | 1 | | On | Existed |
| | | | Off | Not existed |

Is the measurement value normal?

YES >> GO TO 2.

Fixed ON >> GO TO 3.

Fixed OFF >> Replace BCM.

2. CHECK IGNITION KEYHOLE ILLUMINATION OPEN CIRCUIT

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

| BCM | | Ignition keyhole illumination | | Continuity |
|-----------|----------|-------------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M65 | 1 | M68 | 2 | Existed |

Does continuity exist?

IGNITION KEYHOLE ILLUMINATION CONTROL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace ignition keyhole illumination.

NO >> Repair harnesses or connectors.

3. CHECK IGNITION KEYHOLE ILLUMINATION SHORT CIRCUIT

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

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M65 | 1 | | Not existed |

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> Replace BCM.

LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LUGGAGE ROOM LAMP CIRCUIT

Description

INFOID:000000006204556

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

Component Function Check

INFOID:000000006204557

CAUTION:

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

- Interior room lamp power supply
- Luggage room lamp bulb

1.CHECK LUGGAGE ROOM LAMP OPERATION

CONSULT-III ACTIVE TEST

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

On : Luggage room lamp ON

Off : Luggage room lamp OFF

Does the luggage room lamp turn ON/OFF?

- YES >> Luggage room lamp circuit is normal.
NO >> Refer to [INL-25, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000006204558

1.CHECK LUGGAGE ROOM LAMP OUTPUT

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Remove luggage room lamp bulb.
3. Turn ignition switch ON.
4. Select "LUGGAGE LAMP TEST" of BCM (INT LAMP) active test item.
5. With operating the test item, check continuity between BCM harness connector and ground.

| BCM | | Ground | Test item | Continuity |
|-----------|----------|--------|-------------------|-------------|
| Connector | Terminal | | LUGGAGE LAMP TEST | |
| M66 | 49 | | On | Existed |
| | | | Off | Not existed |

Is the measurement value normal?

- YES >> GO TO 2.
Fixed ON>>GO TO 3.
Fixed OFF>>Replace BCM.

2.CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

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

| BCM | | Luggage room lamp | | Continuity |
|-----------|----------|-------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M66 | 49 | D155 | 4 | Existed |

Does continuity exist?

- YES >> Replace luggage room lamp.

LUGGAGE ROOM LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair harnesses or connectors.

3. CHECK LUGGAGE ROOM LAMP SHORT CIRCUIT

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

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| M66 | 49 | | Not existed |

Does continuity exist?

YES >> Repair harnesses or connectors.

NO >> Replace BCM.

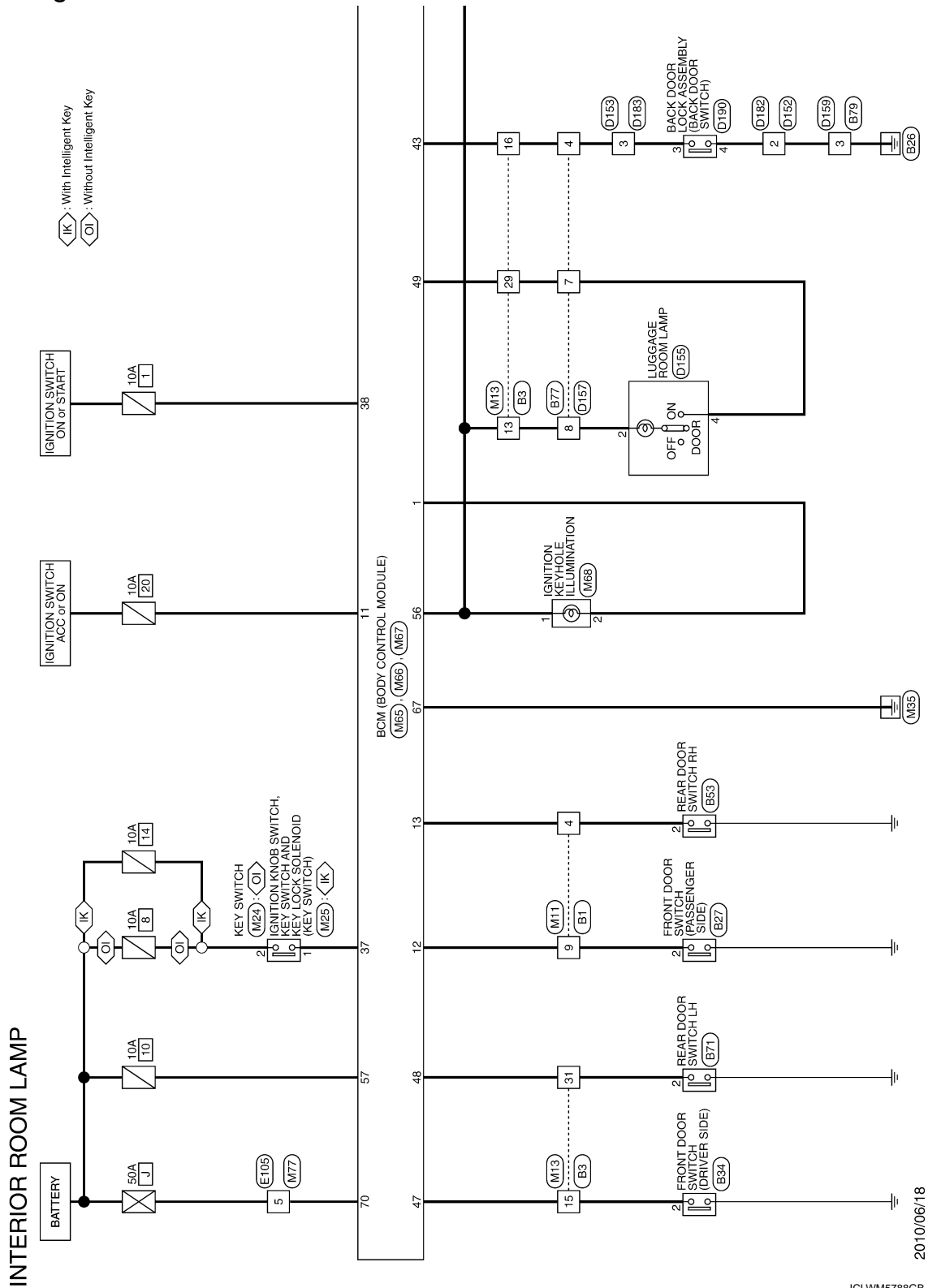
INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP CONTROL SYSTEM

Wiring Diagram - INTERIOR ROOM LAMP -

INFOID:000000006204559



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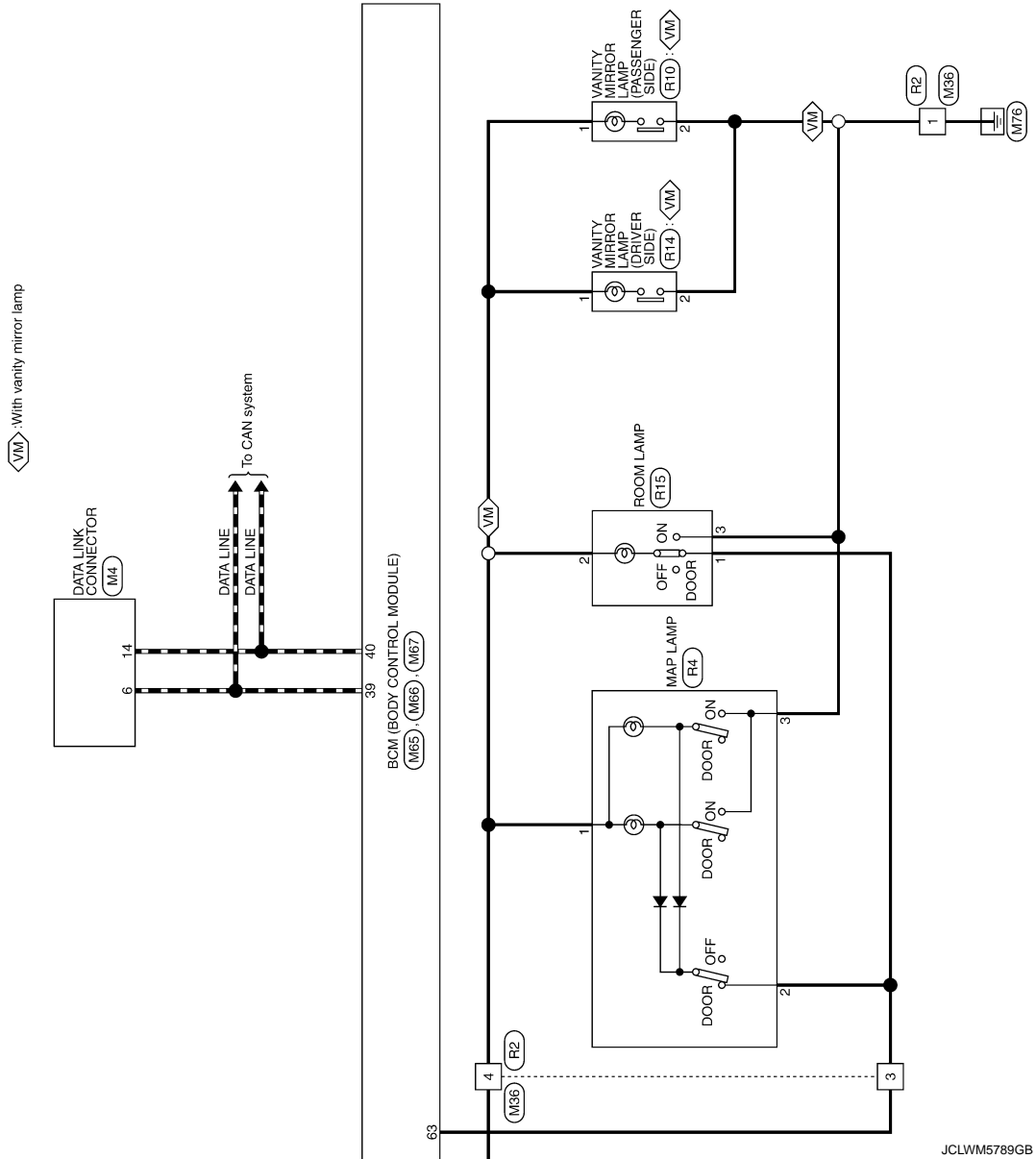
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



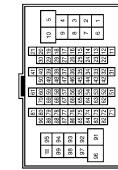
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

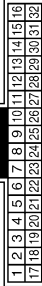
| | |
|----------------|-------------------|
| Connector No. | B1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH32MW-CS (E-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | |
| 2 | BR | |
| 3 | G | |
| 4 | L | |
| 6 | BR | |
| 7 | Y | |
| 8 | LG | |
| 9 | BR | |
| 10 | BR | |
| 21 | R | |
| 35 | SHIELD | |
| 36 | R | |
| 37 | LG | |
| 38 | SHIELD | |
| 39 | O | |
| 40 | G | |
| 41 | R | |
| 45 | L | |
| 46 | W | |
| 47 | SHIELD | |
| 48 | W | |
| 49 | W | |
| 50 | SHIELD | |
| 52 | L | |
| 53 | L | |
| 54 | G | |
| 55 | O | |
| 56 | LG | |
| 57 | SB | |
| 58 | W | |
| 59 | B | |
| 60 | SB | |
| 62 | GR | |
| 63 | W | |
| 65 | SHIELD | |
| 66 | BR | |
| 67 | LG | |

| | | |
|-----|--------|--|
| 68 | SR | |
| 69 | SHIELD | |
| 70 | W | |
| 71 | W | |
| 72 | Y | |
| 77 | L | |
| 80 | R | |
| 81 | W | |
| 82 | GR | |
| 86 | Y | |
| 87 | P | |
| 91 | GR | |
| 92 | R | |
| 93 | G | |
| 94 | G | |
| 95 | O | |
| 96 | Y | |
| 97 | SR | |
| 98 | Y | |
| 99 | Y | |
| 100 | L | |

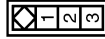
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| Connector No. | B3 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH32MW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | |
| 2 | G | |
| 4 | R | |
| 5 | W | |
| 6 | G | |
| 10 | G | |
| 13 | Y | |
| 14 | BR | |
| 15 | P | |
| 16 | W | |
| 17 | LG | |
| 18 | R | |
| 19 | SR | |
| 20 | B | |
| 21 | SHIELD | |

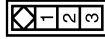
| | | |
|----|----|--|
| 26 | P | |
| 29 | L | |
| 30 | O | |
| 31 | GR | |
| 32 | LG | |

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|----------------|------------------------------------|
| Connector No. | B27 |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) |
| Connector Type | A03FW |



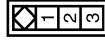
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|--------------|---|----|--|
| Terminal No. | 2 | BR | |
|--------------|---|----|--|

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



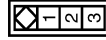
| | | | |
|--------------|---|---|--|
| Terminal No. | 2 | P | |
|--------------|---|---|--|

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|----------------|---------------------|
| Connector No. | B63 |
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | A03FW |



| | | | |
|--------------|---|---|--|
| Terminal No. | 2 | L | |
|--------------|---|---|--|

| | |
|----------------|---------------------|
| Connector No. | B71 |
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | A03FW |



| | | | |
|--------------|---|----|--|
| Terminal No. | 2 | GR | |
|--------------|---|----|--|

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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

| | |
|----------------|--------------|
| Connector No. | B77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS10MW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | Y | - |
| 3 | O | - |
| 4 | W | - |
| 5 | G | - |
| 6 | R | - |
| 7 | L | - |
| 8 | Y | - |
| 9 | SB | - |
| 10 | LG | - |

| | |
|----------------|--------------|
| Connector No. | B79 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MD4MW-LC |



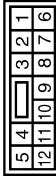
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | G | - |
| 3 | B | - |
| 4 | W | - |

| | |
|----------------|--------------|
| Connector No. | D152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MD2FW-GY-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |

| | |
|----------------|--------------|
| Connector No. | D153 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12FER-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | R | - |
| 3 | W | - |
| 4 | SB | - |
| 5 | SB | - |
| 6 | SHIELD | - |
| 7 | B | - |
| 8 | LG | - |
| 9 | V | - |
| 10 | R | - |
| 11 | O | - |
| 12 | G | - |

| | |
|----------------|-------------------|
| Connector No. | D155 |
| Connector Name | LUGGAGE ROOM LAMP |
| Connector Type | CJ4FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | Y | - |
| 4 | L | - |

| | |
|----------------|--------------|
| Connector No. | D157 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS10FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | Y | - |
| 3 | O | - |
| 4 | W | - |
| 5 | G | - |
| 6 | R | - |
| 7 | L | - |
| 8 | Y | - |
| 9 | SB | - |
| 10 | LG | - |

| | |
|----------------|--------------|
| Connector No. | D159 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MD4FW-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | G | - |
| 3 | B | - |
| 4 | V | - |

| | |
|----------------|--------------|
| Connector No. | D182 |
| Connector Name | WIRE TO WIRE |
| Connector Type | MD2MW-GY-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |

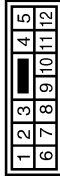
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INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

| | |
|----------------|--------------|
| Connector No. | D183 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12MBR-CS |



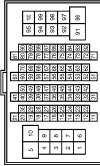
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | R | - |
| 3 | W | - |
| 4 | SB | - |
| 5 | SB | - |
| 6 | B | - |
| 7 | L | - |
| 8 | LG | - |
| 9 | V | - |
| 10 | R | - |
| 11 | O | - |
| 12 | G | - |

| | |
|----------------|-------------------------|
| Connector No. | D190 |
| Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | NS04FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | B | - |
| 3 | W | - |
| 4 | B | - |

| | |
|----------------|-----------------|
| Connector No. | E105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR80PW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | Y | - |
| 5 | Y | - |
| 6 | G | - |
| 7 | R | - |
| 8 | GR | - |
| 9 | BR | - |
| 10 | L | - |
| 11 | GR | - |
| 12 | P | - |
| 13 | L | - |
| 14 | V | - |
| 15 | R | - |
| 16 | P | - |
| 17 | L | - |
| 18 | L | - |
| 19 | LG | - |
| 20 | SB | - |
| 21 | L | - |
| 22 | L | - |
| 23 | SB | - |
| 24 | SB | - |
| 25 | SB | - |
| 26 | L | - |
| 27 | BR | - |
| 28 | BR | - |
| 29 | SHIELD | - |
| 30 | L | - |
| 31 | W | - |
| 32 | BR | - |
| 33 | BR | - |
| 34 | BR | - |
| 35 | BR | - |
| 36 | BR | - |
| 37 | BR | - |
| 38 | BR | - |
| 39 | BR | - |
| 40 | BR | - |
| 41 | BR | - |
| 42 | BR | - |
| 43 | BR | - |
| 44 | BR | - |
| 45 | BR | - |
| 46 | BR | - |
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| 48 | BR | - |
| 49 | BR | - |
| 50 | BR | - |
| 51 | BR | - |
| 52 | BR | - |
| 53 | BR | - |
| 54 | Y | - |
| 55 | O | - |
| 56 | BR | - |
| 57 | R | - |
| 58 | P | - |
| 59 | G | - |
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| 65 | L | - |
| 66 | L | - |
| 67 | L | - |
| 68 | L | - |
| 69 | L | - |
| 70 | L | - |
| 71 | L | - |
| 72 | L | - |
| 73 | L | - |
| 74 | L | - |
| 75 | L | - |
| 76 | L | - |
| 77 | L | - |
| 78 | L | - |
| 79 | L | - |

| | | |
|-----|----|---|
| 80 | Y | - |
| 81 | W | - |
| 82 | R | - |
| 83 | L | - |
| 84 | BR | - |
| 85 | R | - |
| 86 | GR | - |
| 87 | R | - |
| 88 | O | - |
| 89 | BR | - |
| 90 | W | - |
| 91 | BR | - |
| 92 | G | - |
| 93 | SB | - |
| 94 | L | - |
| 95 | BR | - |
| 96 | BR | - |
| 97 | G | - |
| 98 | SB | - |
| 99 | L | - |
| 100 | L | - |

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



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | O | - |
| 8 | W | - |
| 9 | P | - |
| 10 | W | - |
| 11 | L | - |
| 12 | B | - |
| 13 | L | - |
| 14 | L | - |
| 15 | L | - |
| 16 | B | - |

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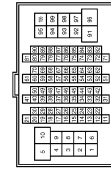
INL

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

INTERIOR ROOM LAMP

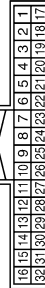
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|----------------|-----------------|
| Connector No. | M11 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80YW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | |
| 2 | BR | |
| 3 | G | |
| 4 | LG | |
| 6 | P | |
| 7 | Y | |
| 8 | LG | |
| 9 | P | |
| 10 | Y | |
| 21 | R | |
| 35 | SHIELD | |
| 36 | P | |
| 37 | LG | |
| 38 | SHIELD | |
| 39 | O | |
| 40 | G | |
| 41 | R | |
| 45 | BR | |
| 46 | L | |
| 47 | SHIELD | |
| 48 | V | |
| 49 | W | |
| 50 | SHIELD | |
| 52 | O | |
| 53 | L | |
| 54 | V | |
| 55 | Y | |
| 56 | LG | |
| 57 | SB | |
| 58 | W | |
| 59 | B | |
| 60 | SB | |
| 62 | GR | |
| 63 | BR | |
| 65 | SHIELD | |
| 66 | BR | |
| 67 | LG | |
| 68 | SB | |

| | | |
|-----|--------|--|
| 69 | SHIELD | |
| 70 | LG | |
| 71 | O | |
| 72 | BR | |
| 77 | L | |
| 80 | R | |
| 81 | W | |
| 82 | GR | |
| 86 | Y | |
| 87 | P | |
| 91 | L | |
| 92 | B | |
| 93 | GR | |
| 94 | G | |
| 95 | O | |
| 96 | P | |
| 97 | SB | |
| 98 | GR | |
| 99 | R | |
| 100 | L | |

| | |
|----------------|--------------|
| Connector No. | M13 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH32FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | |
| 2 | Y | |
| 4 | R | |
| 5 | W | |
| 6 | G | |
| 10 | W | |
| 13 | Y | |
| 14 | O | |
| 15 | W | |
| 16 | V | |
| 17 | LG | |
| 18 | BR | |
| 19 | SB | |
| 20 | B | |
| 21 | SHIELD | |
| 26 | W | |

| | | |
|----|----|--|
| 29 | L | |
| 30 | B | |
| 31 | GR | |
| 32 | G | |

| | |
|----------------|------------|
| Connector No. | M24 |
| Connector Name | KEY SWITCH |
| Connector Type | TK02MBR-P |



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

| | |
|----------------|---|
| Connector No. | M25 |
| Connector Name | IGNITION MAJOR SWITCH, KEY SWITCH AND KEY LOCK (SOLENOID) |
| Connector Type | TK08MGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | LG | |
| 2 | R | |
| 3 | G | |
| 4 | P | |

| | |
|----------------|--------------|
| Connector No. | M36 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS06FBR-OS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | |
| 2 | L | |
| 3 | R | |
| 4 | Y | |
| 5 | P | |
| 6 | B | |

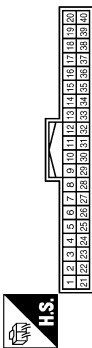
JCLWM5793GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

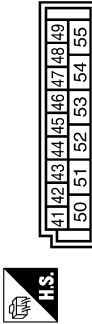
INTERIOR ROOM LAMP

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|----------------|---------------------------|
| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40PW-NH |



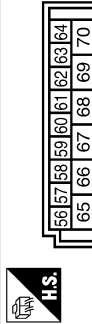
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | KEY RING OUTPUT |
| 2 | G | INPUT 5 |
| 3 | Y | INPUT 4 |
| 4 | W | INPUT 3 |
| 5 | R | INPUT 2 |
| 6 | P | INPUT 1 |
| 7 | L | KEY CYC UNLOCK |
| 8 | R | KEY CYL LOCK SW |
| 9 | R | BRAKE SW |
| 10 | SB | RR DEF SW |
| 11 | SB | ACC |
| 12 | P | DR SW AS |
| 13 | LG | DR SW RR |
| 14 | G | AUTO LIGHT SENS INPUT |
| 17 | W | SENS POWER SUPPLY |
| 18 | O | KEYLESS TUNER SENS GND |
| 19 | V | KEYLESS TUNER POWER |
| 20 | GR | KEYLESS TUNER SIGNAL |
| 21 | G | IMMOBIL ANT (GLOCK) |
| 23 | B | SECURITY IND OUT PUT |
| 24 | BR | IMMOBIL ANT (RX TX) |
| 25 | V | AIRCOIL SW |
| 28 | LG | BLOWER FAN SW |
| 29 | W | HAZARD SW |
| 30 | G | BACK DOOR OPEN SW |
| 32 | BR | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | L | OUTPUT 3 |
| 35 | B | OUTPUT 2 |
| 36 | V | OUTPUT 1 |
| 37 | LG | KEY SW |
| 38 | G | IGN |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|----------------|---------------------------|
| Connector No. | M66 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA08FW-FHA6-SA |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | V | BACK DOOR SW |
| 44 | B | RR WIP AUTO STOP |
| 45 | P | GOLLOCK SW |
| 46 | BR | CB UNLOCK SW |
| 47 | W | DR SW OR |
| 48 | GR | DR SW RL |
| 49 | L | LUGGAGE LAMP OUTPUT |
| 53 | V | BACK DOOR OPENER OUTPUT |
| 55 | SB | RR WIP MTR OUT |

| | |
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| Connector No. | M67 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA08FB-FHA6-SA |



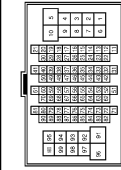
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56 | Y | BATTERY SAVER OUTPUT |
| 57 | G | BAT FUSE |
| 59 | L | D/L UNLOCK DR |
| 60 | BR | FLASHER OUT PUT (LEFT) |
| 61 | GR | FLASHER OUT PUT (RIGHT) |
| 63 | R | ROOM LAMP OUTPUT |
| 65 | V | D/L LOCK ALL |
| 66 | G | D/L UNLOCK OTHER |
| 67 | B | GND |
| 68 | L | POWER MDW OUTPUT (RAP) |
| 69 | P | POWER MDW OUTPUT (BAT) |
| 70 | Y | BAT FL |

| | |
|----------------|-------------------------------|
| Connector No. | M68 |
| Connector Name | IGNITION KEYHOLE ILLUMINATION |
| Connector Type | A023MW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | |
| 2 | V | |

| | |
|----------------|-----------------|
| Connector No. | M77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | |
| 2 | O | |
| 3 | LG | |
| 4 | Y | |
| 5 | Y | |
| 6 | G | |
| 7 | R | |
| 8 | GR | |
| 9 | BR | |
| 10 | L | |
| 11 | GR | |
| 12 | P | |
| 14 | SB | |
| 15 | V | |
| 19 | R | |
| 20 | P | |
| 21 | O | |
| 22 | L | |
| 24 | BR | |
| 25 | W | |

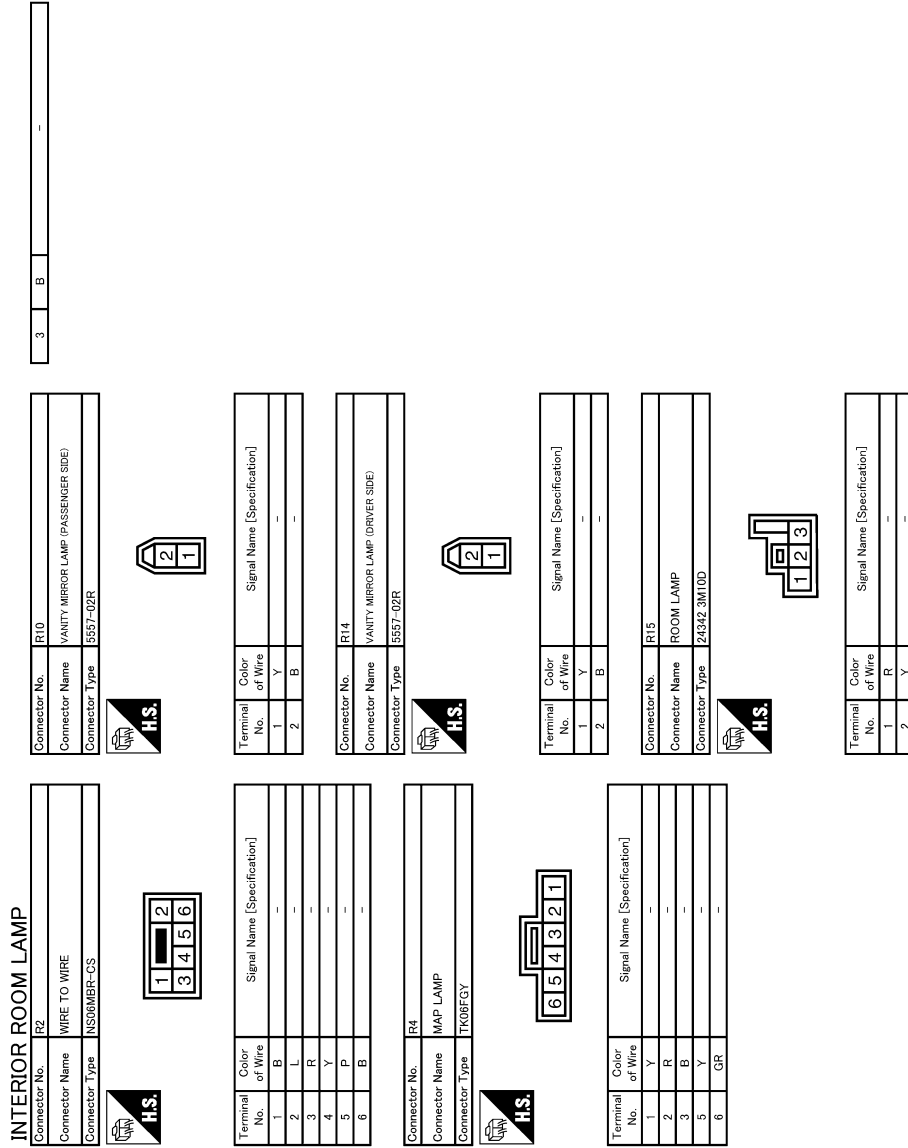
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| 30 | L | |
| 31 | W | |
| 42 | O | |
| 43 | SHIELD | |
| 51 | W | |
| 52 | SB | |
| 53 | L | |
| 54 | Y | |
| 60 | O | |
| 61 | BR | |
| 62 | G | |
| 63 | P | |
| 69 | W | |
| 70 | B | |
| 71 | P | |
| 72 | O | |
| 78 | SB | |
| 79 | V | |
| 80 | L | |
| 81 | W | |
| 82 | B | |
| 83 | LG | |
| 88 | BR | |
| 89 | G | |
| 90 | GR | |
| 91 | R | |
| 92 | L | |
| 93 | P | |
| 94 | W | |
| 96 | BR | |
| 97 | G | |
| 99 | SB | |
| 100 | Y | |

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JCLWM5794GB

INTERIOR ROOM LAMP CONTROL SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



JCLWM5795GB

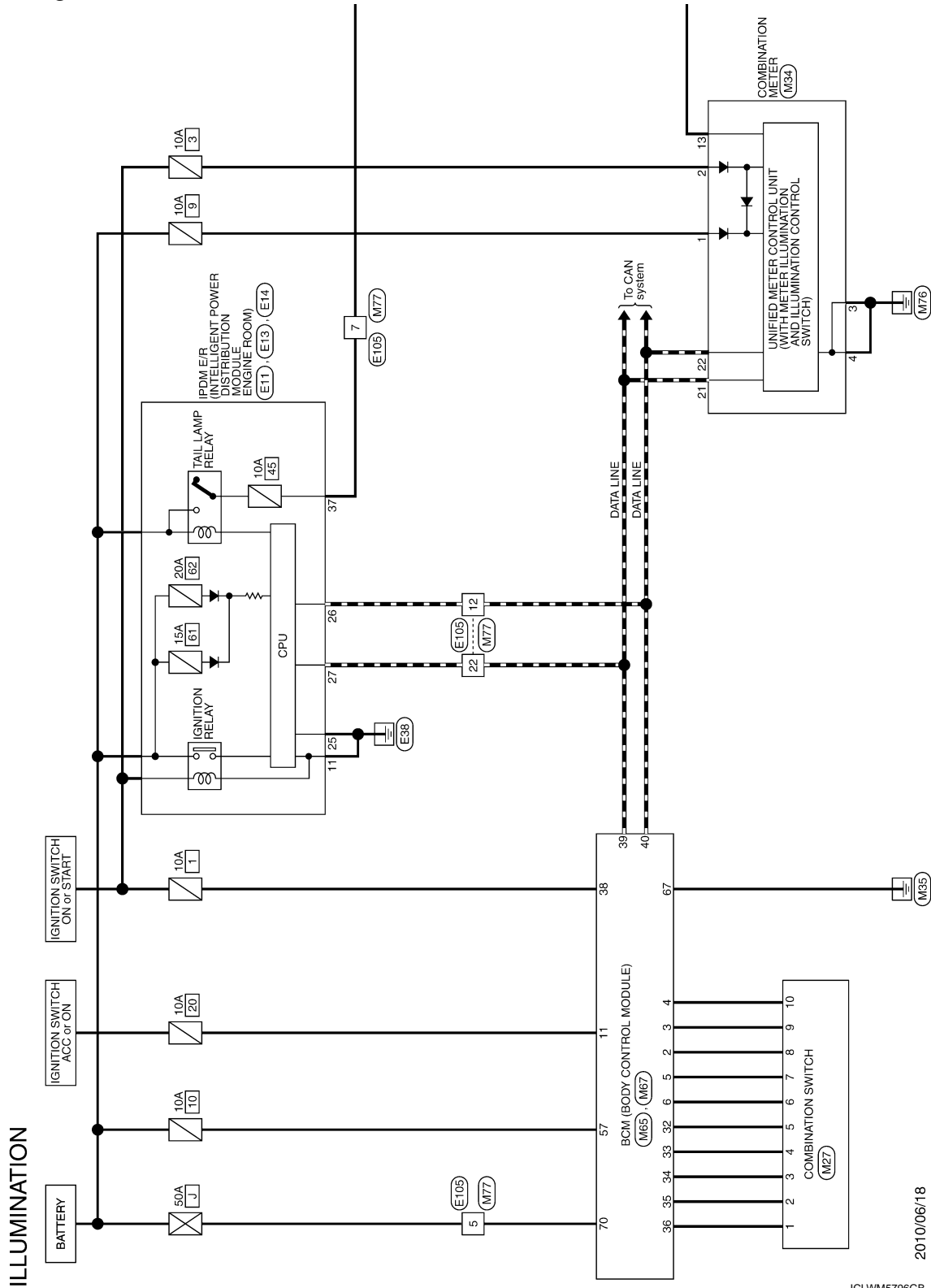
ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

Wiring Diagram - ILLUMINATION -

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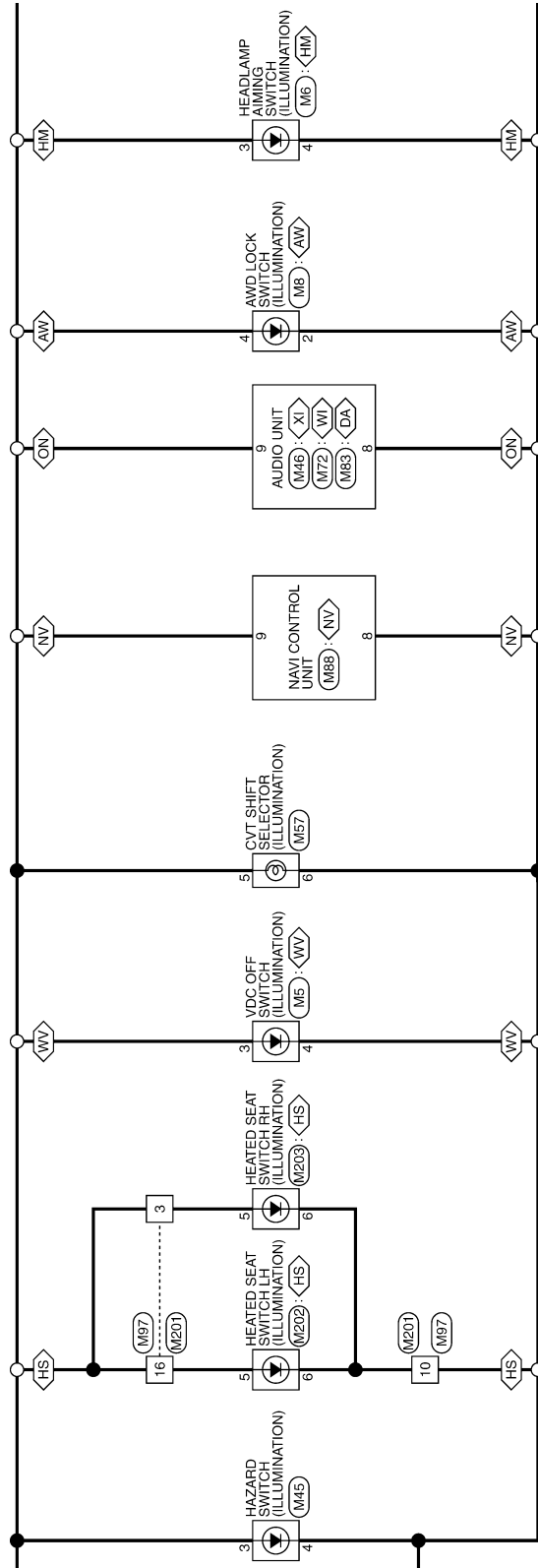
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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

- <AW> : AWD models
- <HS> : With heated seat
- <WV> : With VDC
- <HM> : With headlamp manual aiming
- <DA> : With display audio
- <NV> : With navigation system
- <ON> : Without navigation system
- <WI> : With iPod
- <XI> : Without iPod

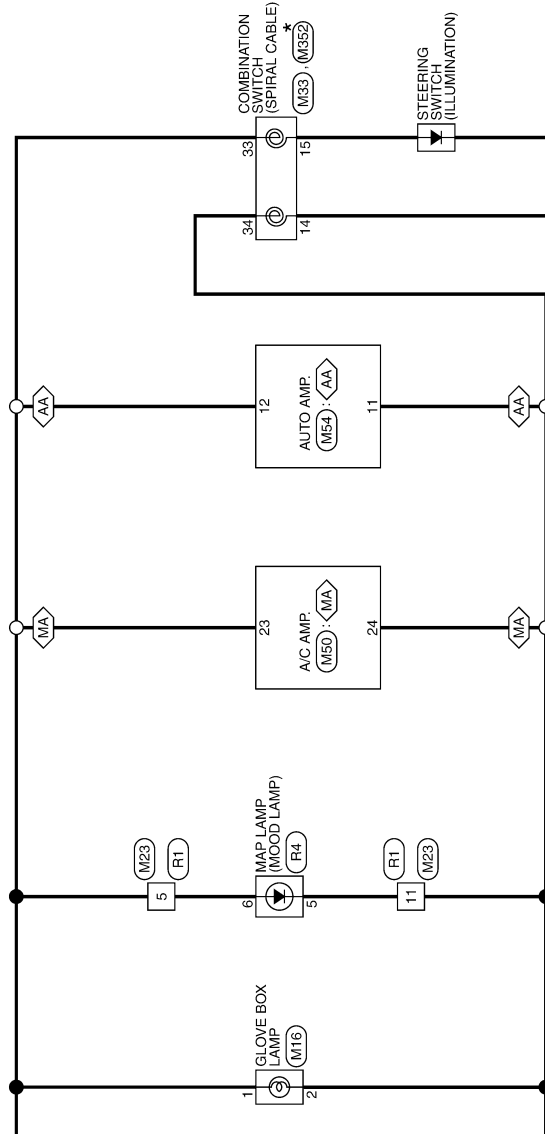


JCLWM5797GB

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

AA : With auto A/C
 MA : With manual A/C



* : This connector is not shown in "Harness Layout".

JCLWM5798GB

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

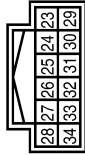
ILLUMINATION

| | |
|----------------|---|
| Connector No. | E11 |
| Connector Name | ENGINE IN INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | IM08EP-LC |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 11 | B | - |
| 12 | O | - |

| | |
|----------------|---|
| Connector No. | E13 |
| Connector Name | ENGINE IN INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH12PW-NH |



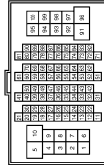
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 23 | W | - |
| 24 | Y | - |
| 25 | B | - |
| 26 | P | - |
| 27 | L | - |
| 28 | LG | - |
| 31 | LG | - |
| 32 | V | - |
| 33 | GR | - |
| 34 | W | - |

| | |
|----------------|---|
| Connector No. | E14 |
| Connector Name | ENGINE IN INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS12FER-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 37 | R | - |
| 38 | R | - |
| 39 | GR | - |
| 40 | BR | - |
| 41 | O | - |
| 42 | L | - |
| 43 | C | - |
| 45 | Y | - |
| 46 | W | - |

| | |
|----------------|-----------------|
| Connector No. | E105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | V | - |
| 5 | Y | - |
| 6 | G | - |
| 7 | R | - |
| 8 | GR | - |
| 9 | BR | - |
| 10 | L | - |
| 11 | GR | - |
| 12 | P | - |
| 14 | L | - |

| | | |
|-----|--------|---|
| 15 | V | - |
| 19 | R | - |
| 20 | P | - |
| 21 | L | - |
| 22 | L | - |
| 24 | LG | - |
| 25 | SB | - |
| 30 | L | - |
| 31 | BR | - |
| 42 | Y | - |
| 43 | SHIELD | - |
| 51 | L | - |
| 52 | W | - |
| 53 | BR | - |
| 54 | Y | - |
| 60 | O | - |
| 61 | BR | - |
| 62 | R | - |
| 63 | P | - |
| 69 | G | - |
| 70 | B | - |
| 71 | O | - |
| 72 | LG | - |
| 78 | L | - |
| 79 | V | - |
| 80 | Y | - |
| 81 | W | - |
| 82 | R | - |
| 83 | L | - |
| 88 | BR | - |
| 89 | R | - |
| 90 | GR | - |
| 91 | R | - |
| 92 | O | - |
| 93 | BR | - |
| 94 | W | - |
| 96 | BR | - |
| 97 | G | - |
| 99 | SB | - |
| 100 | L | - |

| | |
|----------------|----------------|
| Connector No. | IM5 |
| Connector Name | VDC OFF SWITCH |
| Connector Type | TK08FGY |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | - |
| 2 | B | - |
| 3 | R | - |
| 4 | Y | - |

| | |
|----------------|------------------------|
| Connector No. | IM6 |
| Connector Name | HEADLAMP AIMING SWITCH |
| Connector Type | JA4FW |



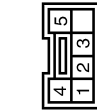
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | B | - |
| 3 | R | - |
| 4 | Y | - |

ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

| | |
|----------------|-----------------|
| Connector No. | M18 |
| Connector Name | AWD LOCK SWITCH |
| Connector Type | TK08FW-1V |



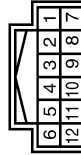
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | O | - |
| 2 | Y | - |
| 3 | B | - |
| 4 | R | - |

| | |
|----------------|----------------|
| Connector No. | M16 |
| Connector Name | GLOVE BOX LAMP |
| Connector Type | A0DFW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | Y | - |

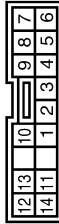
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| Connector No. | M23 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | Y | - |

| | | |
|----|--------|---|
| 1 | LG | - |
| 3 | W | - |
| 5 | R | - |
| 7 | P | - |
| 8 | SHIELD | - |
| 9 | B | - |
| 11 | Y | - |
| 12 | Y | - |

| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TK18FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | INPUT 1 |
| 2 | B | INPUT 2 |
| 3 | L | INPUT 3 |
| 4 | GR | INPUT 4 |
| 5 | BR | INPUT 5 |
| 6 | P | OUTPUT 1 |
| 7 | R | OUTPUT 2 |
| 8 | G | OUTPUT 5 |
| 9 | Y | OUTPUT 4 |
| 10 | W | OUTPUT 3 |
| 11 | LG | WASHER(-) RR (+) |
| 12 | B | COND |
| 13 | O | WASH FR (+) RR (-) |
| 14 | BR | IGN |

| | |
|----------------|-----------------------------------|
| Connector No. | M33 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FY-1V |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24 | BR | - |
| 25 | GR | - |
| 26 | SB | - |
| 27 | G | - |
| 31 | GR | - |
| 32 | O | - |
| 33 | R | - |
| 34 | Y | - |

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



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 1 | LG | BATTERY POWER SUPPLY |
| 2 | O | IGNITION SIGNAL |
| 3 | B | GROUND |
| 4 | B | GROUND |
| 5 | BR | A/C AUTO AMP CONNECTION RECOGNITION SIGNAL |
| 7 | GR | OVERDRIVE CONTROL SWITCH SIGNAL |
| 9 | L | PADDLE SHIFTER SHIF UP SIGNAL |
| 10 | G | PADDLE SHIFTER SHIF DOWN SIGNAL |
| 13 | Y | ILLUMINATION CONTROL SIGNAL |
| 15 | LG | AIR BAG SIGNAL |
| 18 | O | ENGINE COOLANT TEMPERATURE SIGNAL |
| 19 | BR | AMBIENT SENSOR SIGNAL |
| 20 | SB | AMBIENT SENSOR GROUND |
| 21 | L | CAN-L |
| 22 | P | CAN-H |
| 24 | B | FUEL LEVEL SENSOR SIGNAL GROUND |
| 25 | SB | ALTERNATOR SIGNAL |
| 26 | V | PARKING BRAKE SWITCH SIGNAL |
| 27 | BR | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 28 | B | SECURITY SIGNAL |
| 29 | W | WASHER LEVEL SWITCH SIGNAL |
| 30 | Y | VEHICLE SPEED SIGNAL (2-PULSE) |
| 31 | L | VEHICLE SPEED SIGNAL (8-PULSE) |
| 34 | O | FUEL LEVEL SENSOR SIGNAL |
| 35 | G | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 36 | G | SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE) |

| | | |
|----|----|------------------------------|
| 37 | P | NON-MANUAL MODE SIGNAL |
| 38 | O | MANUAL MODE SHIF DOWN SIGNAL |
| 39 | V | MANUAL MODE SHIF UP SIGNAL |
| 40 | LG | MANUAL MODE SIGNAL |

| | |
|----------------|---------------|
| Connector No. | M45 |
| Connector Name | HAZARD SWITCH |
| Connector Type | TK04FW |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | W | - |
| 3 | R | - |
| 4 | Y | - |

| | |
|----------------|------------|
| Connector No. | M46 |
| Connector Name | AUDIO UNIT |
| Connector Type | TH18FW-CSZ |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 2 | R | SOUND SIGNAL FRONT SPEAKER LH (+) |
| 3 | G | SOUND SIGNAL FRONT SPEAKER LH (-) |
| 4 | V | SOUND SIGNAL REAR SPEAKER LH (+) |
| 5 | LG | SOUND SIGNAL REAR SPEAKER LH (-) |
| 7 | SB | ACC |
| 8 | Y | ILLUMINATION CONTROL SIGNAL (-) |
| 9 | R | ILLUMINATION CONTROL SIGNAL (+) |
| 11 | O | SOUND SIGNAL FRONT SPEAKER RH (+) |
| 12 | W | SOUND SIGNAL FRONT SPEAKER RH (-) |
| 13 | L | SOUND SIGNAL REAR SPEAKER RH (+) |
| 14 | P | SOUND SIGNAL REAR SPEAKER RH (-) |
| 19 | Y | BATTERY |

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ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

ILLUMINATION

| | |
|----------------|----------|
| Connector No. | M50 |
| Connector Name | A/C AMP. |
| Connector Type | SA840FW |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 1 | LG | BATTERY POWER SUPPLY |
| 2 | W | IGNITION POWER SUPPLY |
| 3 | B | GROUND |
| 16 | P | INTAKE SENSOR GROUND |
| 17 | O | INTAKE SENSOR SIGNAL |
| 18 | V | A/C LAN SIGNAL |
| 20 | GR | RR DEF F/S |
| 21 | Y | IGNITION 2 POWER SUPPLY |
| 22 | G | EACH DOOR MOTOR POWER SUPPLY |
| 23 | GR | LIGHT+ |
| 24 | SB | LIGHT- |
| 36 | R | BLOWER MOTOR FEEDBACK SIGNAL |
| 37 | L | FAN CONTROL AMP. CONTROL SIGNAL |
| 38 | SB | RR DEF SW |
| 39 | LG | FAN ON SIGNAL |
| 40 | Y | A/C SWITCH SIGNAL |

| | |
|----------------|-----------|
| Connector No. | M54 |
| Connector Name | AUTO AMP. |
| Connector Type | TK20FGY |



| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | IGN |
| 2 | LG | BAT |
| 3 | B | GND (POWER) |
| 4 | Y | COMP ON |
| 5 | G | LAN (+) |
| 8 | LG | INCAR SENS |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | BR | AMB SENS |
| 10 | Y | SUN SENS |
| 11 | SR | LIGHT (-) |
| 12 | GR | LIGHT (+) |
| 13 | V | LAN (-) |
| 14 | L | FR/FAN DUT |
| 17 | R | FR/FAN F/B |
| 18 | R | FAN ON |
| 19 | LG | FR/IGN 2 |
| 20 | Y | FR/IGN 2 |

| | |
|----------------|--------------------|
| Connector No. | M57 |
| Connector Name | CVT SHIFT SELECTOR |
| Connector Type | TH18FW-NH |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | - |
| 2 | B | - |
| 3 | G | - [With Intelligent Key] |
| 3 | LG | - [Without Intelligent Key] |
| 4 | B | - |
| 5 | R | - |
| 6 | Y | - |
| 7 | LG | KEY SW |
| 8 | O | IGN |
| 9 | V | CAN-H |
| 10 | B | - |
| 11 | P | - |
| 16 | SB | - |

| | |
|----------------|---------------------------|
| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40PW-NH |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | KEY RING OUTPUT |
| 2 | G | INPU1 5 |
| 3 | Y | INPU1 6 |
| 4 | W | INPU1 3 |
| 5 | R | INPU1 2 |
| 6 | P | INPU1 1 |
| 7 | L | KEY CYC UNLOCK |
| 8 | R | KEY CYL LOCK SW |
| 9 | R | BRAKE SW |
| 10 | SB | RR DEF SW |
| 11 | SB | ACC |
| 12 | P | DR SW AS |
| 13 | LG | DR SW RS |
| 14 | G | AUTO LIGHT SENS INPUT |
| 17 | W | SENS POWER SUPPLY |
| 18 | O | KEYLESS TUNER SENS GND |
| 19 | V | KEYLESS TUNER SIGNAL |
| 20 | GR | KEYLESS TUNER POWER |
| 21 | G | IMMOBI ANT (L/GCK) |
| 23 | B | SECURITY INJ OUT PUT |
| 25 | BR | IMMOBI ANT (RX TX) |
| 27 | Y | AIRDOOR SW |
| 28 | LG | BLOWER FAN SW |
| 29 | W | HAZARD SW |
| 30 | G | BACK DOOR OPEN SW |
| 32 | BR | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | L | OUTPUT 3 |
| 35 | B | OUTPUT 2 |
| 36 | V | OUTPUT 1 |
| 37 | LG | KEY SW |
| 38 | G | IGN |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|----------------|---------------------------|
| Connector No. | M67 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FB-FHAG-SA |



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

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56 | Y | BATTERY SAVER OUTPUT |
| 57 | G | BAT FUSE |
| 59 | L | D/L UNLOCK OP |
| 60 | BR | FLASHER OUT PUT (LEFT) |
| 61 | GR | FLASHER OUT PUT (RIGHT) |
| 63 | R | ROOM LAMP OUTPUT |
| 65 | V | D/L LOCK ALL |
| 66 | G | D/L UNLOCK OTHER |
| 67 | B | GND |
| 68 | L | POWER WDW OUTPUT (RAP) |
| 69 | P | POWER WDW OUTPUT (BAT) |
| 70 | Y | BAT FL |

| | |
|----------------|------------|
| Connector No. | M72 |
| Connector Name | AUDIO UNIT |
| Connector Type | TH18FW-CS2 |



| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| 19 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 |

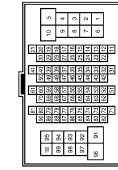
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 2 | R | SOUND SIGNAL FRONT SPEAKER LH (+) |
| 3 | G | SOUND SIGNAL FRONT SPEAKER LH (-) |
| 4 | V | SOUND SIGNAL REAR SPEAKER LH (+) |
| 5 | LG | SOUND SIGNAL REAR SPEAKER LH (-) |
| 6 | BR | STRG SW A |
| 7 | SB | ACC |
| 8 | Y | ILLUMINATION CONTROL SIGNAL (-) |
| 9 | R | ILLUMINATION CONTROL SIGNAL (+) |
| 11 | O | SOUND SIGNAL FRONT SPEAKER RH (+) |
| 12 | W | SOUND SIGNAL FRONT SPEAKER RH (-) |
| 13 | L | SOUND SIGNAL REAR SPEAKER RH (+) |
| 14 | P | SOUND SIGNAL REAR SPEAKER RH (-) |
| 15 | GR | STRG SW GND |
| 16 | O | STRG SW B |
| 18 | L | VEHICLE SPEED (8-PULSE) |
| 19 | Y | BATTERY |

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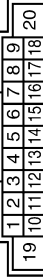
| | |
|----------------|------------------|
| Connector No. | M77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS 6E-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | - |
| 2 | O | - |
| 3 | LG | - |
| 4 | Y | - |
| 5 | Y | - |
| 6 | G | - |
| 7 | R | - |
| 8 | GR | - |
| 9 | BR | - |
| 10 | L | - |
| 11 | GR | - |
| 12 | P | - |
| 14 | SB | - |
| 15 | V | - |
| 19 | R | - |
| 20 | P | - |
| 21 | O | - |
| 22 | L | - |
| 24 | BR | - |
| 25 | W | - |
| 30 | L | - |
| 31 | W | - |
| 42 | O | - |
| 43 | SHIELD | - |
| 51 | W | - |
| 52 | SB | - |
| 53 | L | - |
| 54 | Y | - |
| 60 | O | - |
| 61 | BR | - |
| 62 | G | - |
| 63 | P | - |
| 69 | W | - |
| 70 | B | - |
| 71 | P | - |
| 72 | O | - |
| 78 | SB | - |
| 78 | Y | - |

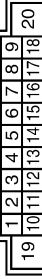
| | | |
|-----|----|---|
| 80 | L | - |
| 81 | W | - |
| 82 | B | - |
| 83 | LG | - |
| 88 | BR | - |
| 89 | G | - |
| 90 | GR | - |
| 91 | R | - |
| 92 | L | - |
| 93 | P | - |
| 94 | W | - |
| 96 | BR | - |
| 97 | G | - |
| 99 | SB | - |
| 100 | Y | - |

| | |
|----------------|------------|
| Connector No. | M83 |
| Connector Name | AUDIO UNIT |
| Connector Type | TH18FW-CS2 |



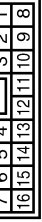
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------------|
| 2 | R | SOUND SIGNAL FRONT SPEAKER LH (+) |
| 3 | G | SOUND SIGNAL FRONT SPEAKER LH (-) |
| 4 | V | SOUND SIGNAL REAR SPEAKER LH (+) |
| 5 | LG | SOUND SIGNAL REAR SPEAKER LH (-) |
| 6 | BR | STRG SW A |
| 7 | SB | ACC |
| 8 | Y | ILLUMINATION CONTROL SIGNAL (-) |
| 9 | R | ILLUMINATION CONTROL SIGNAL (+) |
| 11 | O | SOUND SIGNAL FRONT SPEAKER RH (+) |
| 12 | W | SOUND SIGNAL FRONT SPEAKER RH (-) |
| 13 | L | SOUND SIGNAL REAR SPEAKER RH (+) |
| 14 | P | SOUND SIGNAL REAR SPEAKER RH (-) |
| 15 | GR | STRG SW GND |
| 16 | O | ACC |
| 18 | Y | ILLUMINATION CONTROL SIGNAL (-) |
| 19 | R | ILLUMINATION CONTROL SIGNAL (+) |
| 20 | W | SOUND SIGNAL FRONT SPEAKER RH (+) |
| 21 | L | SOUND SIGNAL REAR SPEAKER RH (+) |
| 22 | P | SOUND SIGNAL REAR SPEAKER RH (-) |
| 23 | GR | STRG SW GND |
| 24 | O | ACC |
| 26 | L | VEHICLE SPEED (8-PULSE) |
| 27 | L | BATTERY |
| 28 | B | GND |

| | |
|----------------|-------------------|
| Connector No. | M88 |
| Connector Name | NAVI CONTROL UNIT |
| Connector Type | TH18FW-CS2 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 1 | BR | AMP_ON SIGNAL |
| 2 | R | SOUND SIGNAL FRONT SPEAKER LH (+) [With BOSE system] |
| 2 | R | SOUND SIGNAL FRONT SPEAKER LH (-) [Without BOSE system] |
| 3 | G | SOUND SIGNAL FRONT SPEAKER LH (+) [With BOSE system] |
| 3 | G | SOUND SIGNAL FRONT SPEAKER LH (-) [Without BOSE system] |
| 4 | V | SOUND SIGNAL REAR LH (+) [With BOSE system] |
| 4 | V | SOUND SIGNAL REAR LH (-) [Without BOSE system] |
| 5 | LG | SOUND SIGNAL REAR LH (+) [With BOSE system] |
| 5 | LG | SOUND SIGNAL REAR LH (-) [Without BOSE system] |
| 6 | BR | STRG SW A |
| 7 | SB | ACC |
| 8 | Y | ILLUMINATION CONTROL SIGNAL (-) |
| 9 | R | ILLUMINATION CONTROL SIGNAL (+) |
| 11 | O | SOUND SIGNAL FRONT SPEAKER RH (+) [With BOSE system] |
| 11 | O | SOUND SIGNAL FRONT SPEAKER RH (-) [Without BOSE system] |
| 12 | W | SOUND SIGNAL FRONT SPEAKER RH (+) [With BOSE system] |
| 12 | W | SOUND SIGNAL FRONT SPEAKER RH (-) [Without BOSE system] |
| 13 | L | SOUND SIGNAL REAR RH (+) [With BOSE system] |
| 13 | L | SOUND SIGNAL REAR RH (-) [Without BOSE system] |
| 14 | P | SOUND SIGNAL REAR RH (+) [With BOSE system] |
| 14 | P | SOUND SIGNAL REAR RH (-) [Without BOSE system] |
| 15 | GR | STRG SW GND |
| 16 | O | ACC |
| 18 | L | VEHICLE SPEED (8-PULSE) |
| 19 | Y | BATTERY |
| 20 | B | GND |

| | |
|----------------|--------------|
| Connector No. | M87 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS3.6FW-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 2 | R | - |
| 3 | V | - |
| 4 | W | - |
| 5 | GR | - |
| 6 | SB | - |
| 7 | G | - |
| 8 | B | - |
| 9 | G | - |
| 10 | Y | - |
| 13 | B | - |
| 15 | O | - |
| 16 | R | - |

JCLWM5802GB

A
B
C
D
E
F
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I
J
K
M
N
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P

INL

ILLUMINATION

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| | |
|----------------|--------------|
| Connector No. | M201 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | R | - |
| 3 | R | - |
| 4 | W | - |
| 5 | GR | - |
| 6 | SB | - |
| 7 | G | - |
| 8 | B | - |
| 9 | G | - |
| 10 | Y | - |
| 13 | B | - |
| 15 | O | - |
| 16 | R | - |

| | |
|----------------|-----------------------|
| Connector No. | M202 |
| Connector Name | HEATED SEAT SWITCH LH |
| Connector Type | NS06FW-CS |



| | | | |
|---|---|---|---|
| 5 | 6 | | |
| 4 | 2 | 1 | 3 |

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

| | |
|----------------|-----------------------|
| Connector No. | M203 |
| Connector Name | HEATED SEAT SWITCH RH |
| Connector Type | NS06FR-CS |



| | | | |
|---|---|---|---|
| 5 | 6 | | |
| 4 | 2 | 1 | 3 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | SR | - |
| 3 | GR | - |
| 4 | B | - |
| 5 | R | - |
| 6 | Y | - |

| | |
|----------------|-----------------------------------|
| Connector No. | M352 |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY |



| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14 | - | - |
| 15 | - | - |
| 16 | - | - |
| 17 | - | - |
| 18 | - | - |
| 19 | - | - |
| 20 | - | - |
| 21 | - | - |

| | |
|----------------|--------------|
| Connector No. | R1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH |



| | | | | | |
|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/Y | - |
| 2 | SHIELD | - |
| 3 | W | - |
| 5 | GR | - |
| 7 | B/R | - |
| 8 | SHIELD | - |
| 9 | B | - |
| 11 | Y | - |
| 12 | O | - |

| | |
|----------------|----------|
| Connector No. | R4 |
| Connector Name | MAP LAMP |
| Connector Type | TK08FGY |



| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | R | - |
| 3 | B | - |
| 5 | Y | - |
| 6 | GR | - |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000006751866

VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status |
|----------------|---|--------------|
| IGN ON SW | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| KEY ON SW | Mechanical key is removed from key cylinder | Off |
| | Mechanical key is inserted to key cylinder | On |
| CDL LOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the lock side | On |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | Off |
| | Press door lock/unlock switch to the unlock side | On |
| DOOR SW-DR | Driver's door closed | Off |
| | Driver's door opened | On |
| DOOR SW-AS | Passenger door closed | Off |
| | Passenger door opened | On |
| DOOR SW-RR | Rear RH door closed | Off |
| | Rear RH door opened | On |
| DOOR SW-RL | Rear LH door closed | Off |
| | Rear LH door opened | On |
| BACK DOOR SW | Back door closed | Off |
| | Back door opened | On |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off |
| | Driver door key cylinder LOCK position | On |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | Off |
| | Driver door key cylinder UNLOCK position | On |
| KEYLESS LOCK | "LOCK" button of key fob is not pressed | Off |
| | "LOCK" button of key fob is pressed | On |
| KEYLESS UNLOCK | "UNLOCK" button of key fob is not pressed | Off |
| | "UNLOCK" button of key fob is pressed | On |
| I-KEY LOCK | "LOCK" button of Intelligent Key or door request switch are not pressed | Off |
| | "LOCK" button of Intelligent Key or door request switch are pressed | On |
| I-KEY UNLOCK | "UNLOCK" button of Intelligent Key or door request switch are not pressed | Off |
| | "UNLOCK" button of Intelligent Key or door request switch are pressed | On |
| ACC ON SW | Ignition switch OFF | Off |
| | Ignition switch ACC or ON | On |
| REAR DEF SW | Rear window defogger switch OFF | Off |
| | Rear window defogger switch ON | On |
| LIGHT SW 1ST | Lighting switch OFF | Off |
| | Lighting switch 1ST | On |

BCM (BODY CONTROL MODULE)

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| Monitor Item | Condition | Value/Status |
|----------------|---|--------------|
| BUCKLE SW | The seat belt (driver side) is unfastened. [Seat belt switch (driver side) OFF] | Off |
| | The seat belt (driver side) is fastened. [Seat belt switch (driver side) ON] | On |
| KEYLESS PANIC | PANIC button of key fob is not pressed | Off |
| | PANIC button of key fob is pressed | On |
| KEYLESS TRUNK | NOTE: The item is indicated, but not monitored. | Off |
| TRNK OPN MNTR | NOTE: The item is indicated, but not monitored. | Off |
| RKE LCK-UNLCK | LOCK/UNLOCK button of key fob is not pressed and held simultaneously | Off |
| | LOCK/UNLOCK button of key fob is pressed and held simultaneously | On |
| RKE KEEP UNLK | UNLOCK button of key fob is not pressed | Off |
| | UNLOCK button of key fob is pressed and held | On |
| HI BEAM SW | Lighting switch OFF | Off |
| | Lighting switch HI | On |
| HEAD LAMP SW 1 | Lighting switch OFF | Off |
| | Lighting switch 2ND | On |
| HEAD LAMP SW 2 | Lighting switch OFF | Off |
| | Lighting switch 2ND | On |
| AUTO LIGHT SW | Other than lighting switch AUTO | Off |
| | Lighting switch AUTO | On |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off |
| TURN SIGNAL R | Turn signal switch OFF | Off |
| | Turn signal switch RH | On |
| TURN SIGNAL L | Turn signal switch OFF | Off |
| | Turn signal switch LH | On |
| ENGINE RUN | Engine stopped | Off |
| | Engine running | On |
| PKB SW | Parking brake switch is OFF | Off |
| | Parking brake switch is ON | On |
| CARGO LAMP SW | NOTE: The item is indicated, but not monitored. | Off |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V |
| | Dark outside of the vehicle | Close to 0 V |
| IGN SW CAN | Ignition switch OFF or ACC | Off |
| | Ignition switch ON | On |
| FR WIPER HI | Front wiper switch OFF | Off |
| | Front wiper switch HI | On |

BCM (BODY CONTROL MODULE)

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| Monitor Item | Condition | Value/Status | |
|---------------|---|-----------------------------------|-----|
| FR WIPER LOW | Front wiper switch OFF | Off | A |
| | Front wiper switch LO | On | |
| FR WIPER INT | Front wiper switch OFF | Off | B |
| | Front wiper switch INT | On | |
| FR WASHER SW | Front washer switch OFF | Off | C |
| | Front washer switch ON | On | |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 | |
| FR WIPER STOP | Any position other than front wiper stop position | Off | D |
| | Front wiper stop position | On | |
| VEHICLE SPEED | While driving | Equivalent to speedometer reading | |
| RR WIPER ON | Rear wiper switch OFF | Off | E |
| | Rear wiper switch ON | On | |
| RR WIPER INT | Rear wiper switch OFF | Off | F |
| | Rear wiper switch INT | On | |
| RR WASHER SW | Rear washer switch OFF | Off | G |
| | Rear washer switch ON | On | |
| RR WIPER STOP | Rear wiper stop position | Off | H |
| | Other than rear wiper stop position | On | |
| RR WIPER STP2 | NOTE: The item is indicated, but not monitored. | Off | |
| H/L WASH SW | NOTE: The item is indicated, but not monitored. | Off | I |
| HAZARD SW | Hazard switch OFF | Off | J |
| | Hazard switch ON | On | |
| BRAKE SW | Brake pedal is not depressed | Off | K |
| | Brake pedal is depressed | On | |
| FAN ON SIG | Blower fan motor switch OFF | Off | |
| | Blower fan motor switch ON (other than OFF) | On | |
| AIR COND SW | <ul style="list-style-type: none"> • A/C conditioner OFF (A/C switch indicator OFF) (Automatic air conditioner) • A/C switch OFF (Manual air conditioner) | Off | INL |
| | <ul style="list-style-type: none"> • A/C conditioner ON (A/C switch indicator ON) (Automatic air conditioner) • A/C switch ON (Manual air conditioner) | On | M |
| I-KEY TRUNK | NOTE: The item is indicated, but not monitored. | Off | N |
| I-KEY PW DWN | UNLOCK button of Intelligent Key is not pressed | Off | |
| | UNLOCK button of Intelligent Key is pressed and held | On | |
| I-KEY PANIC | PANIC button of Intelligent Key is not pressed | Off | O |
| | PANIC button of Intelligent Key is pressed | On | |
| PUSH SW | Return to ignition switch to "LOCK" position | Off | P |
| | Press ignition switch | On | |
| TRNK OPNR SW | When back door opener switch is not pressed | Off | |
| | When back door opener switch is pressed | On | |
| TRUNK CYL SW | NOTE: The item is indicated, but not monitored. | Off | |

BCM (BODY CONTROL MODULE)

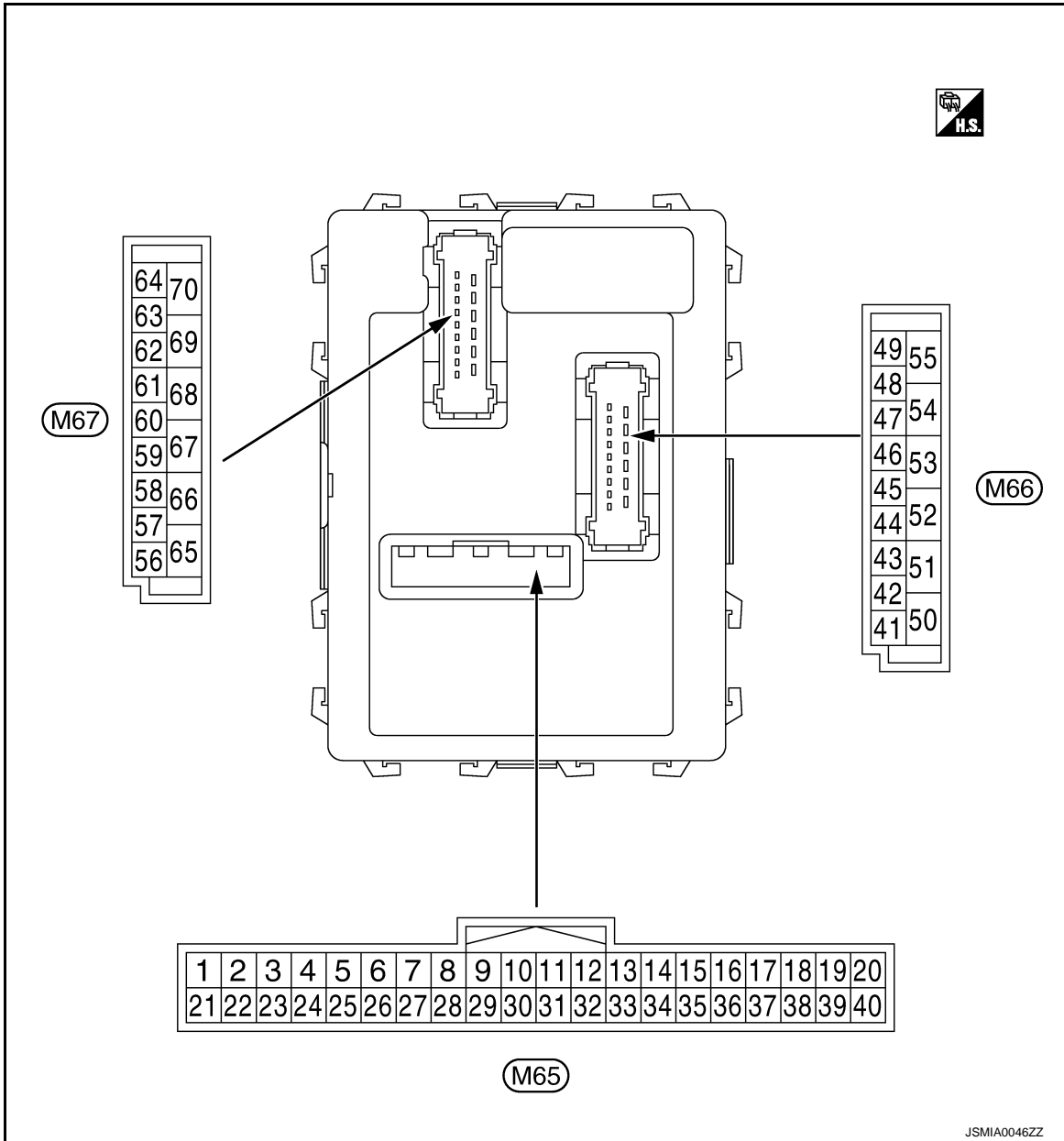
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|--------------|--|-------------------------------|
| HOOD SW | Close the hood NOTE: Vehicles of except for Mexico are OFF-fixed | Off |
| | Open the hood | On |
| OIL PRESS SW | <ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running | Off |
| | Ignition switch ON | On |
| AIR PRESS FL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front LH tire |
| AIR PRESS FR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front RH tire |
| AIR PRESS RR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear RH tire |
| AIR PRESS RL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear LH tire |
| ID REGST FL1 | ID of front LH tire transmitter is registered | Done |
| | ID of front LH tire transmitter is not registered | Yet |
| ID REGST FR1 | ID of front RH tire transmitter is registered | Done |
| | ID of front RH tire transmitter is not registered | Yet |
| ID REGST RR1 | ID of rear RH tire transmitter is registered | Done |
| | ID of rear RH tire transmitter is not registered | Yet |
| ID REGST RL1 | ID of rear LH tire transmitter is registered | Done |
| | ID of rear LH tire transmitter is not registered | Yet |
| WARNING LAMP | Tire pressure indicator OFF | Off |
| | Tire pressure indicator ON | On |
| BUZZER | Tire pressure warning alarm is not sounding | Off |
| | Tire pressure warning alarm is sounding | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-9, "System Diagram"](#).

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|-----------------------------------|-----|--------------------|
| + | - | Signal name | Input/ Output | Ignition key hole illumination | OFF | Battery voltage |
| 1 (V) | Ground | Ignition key hole illumination control | Output | | ON | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | | |
|------------------------------|--------|-------------------------------|------------------|---|--------------------------|-----|-------|
| + | - | Signal name | Input/ Output | | | | |
| 2 (G) | Ground | Combination switch INPUT 5 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V | |
| | | | | | Turn signal switch RH | | |
| | | | | | Lighting switch HI | | |
| | | | | | Lighting switch 1ST | | 1.0 V |
| | | | | | Lighting switch 2ND | | 2.0 V |
| 3 (Y) | Ground | Combination switch INPUT 4 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V | |
| | | | | | Turn signal switch LH | | |
| | | | | | Lighting switch PASS | | |
| | | | | | Lighting switch 2ND | | 1.0 V |
| | | | | | Front fog lamp switch ON | | 0.8 V |
| 4 (W) | Ground | Combination switch INPUT 3 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V | |
| | | | | | Lighting switch AUTO | | |
| | | | | | Front wiper switch LO | | |
| | | | | | Front wiper switch MIST | | |
| Front wiper switch INT | 1.0 V | | | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

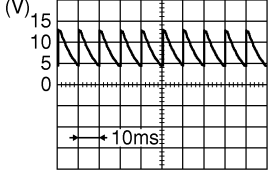
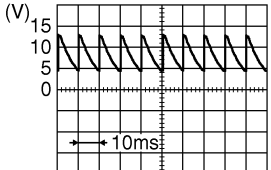
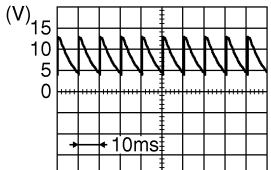
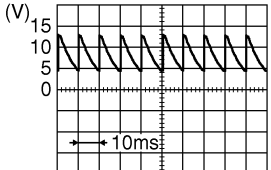
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | | |
|------------------------------|--------|-------------------------------|------------------|--|---|-------|-------|
| + | - | Signal name | Input/ Output | | | | |
| 5 (R) | Ground | Combination switch INPUT 2 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0 V | |
| | | | | | Front washer switch (Wiper intermittent dial 4) | | |
| | | | | | Rear washer ON (Wiper intermittent dial 4) | | |
| | | | | | Any of the condition below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | | 1.0 V |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) | | 0.8 V |
| 6 (P) | Ground | Combination switch INPUT 1 | Input | Combination switch | All switch OFF (Wiper intermittent dial 4) | 0 V | |
| | | | | | Front wiper switch HI (Wiper intermittent dial 4) | | |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) | | |
| | | | | | Wiper intermittent dial 3 (All switch OFF) | | 1.0 V |
| | | | | | | | |
| | | | | Any of the condition below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 6 • Wiper intermittent dial 7 | | 0.8 V | |

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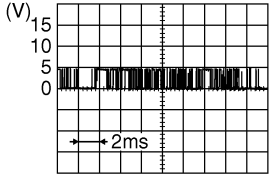
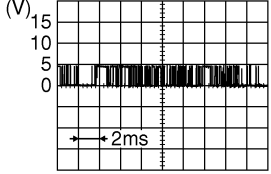
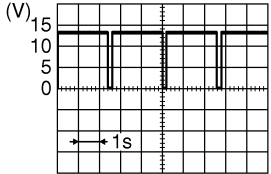
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|--------------------------------|--|--|
| + | - | Signal name | Input/ Output | | | |
| 7 (L) | Ground | Door key cylinder switch UNLOCK signal | Input | Door key cylinder switch | NEUTRAL position |  <small>JPMIA0587GB</small> 8.0 - 8.5 V |
| | | | | | UNLOCK position | 0 V |
| 8 (R) | Ground | Door key cylinder switch LOCK signal | Input | Door key cylinder switch | NEUTRAL position |  <small>JPMIA0587GB</small> 8.0 - 8.5 V |
| | | | | | LOCK position | 0 V |
| 9 (R) | Ground | Stop lamp switch | Input | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V |
| | | | | | ON (Brake pedal is de- pressed) | Battery voltage |
| 10 (SB) | Ground | Rear window defog- ger switch | Input | Rear window defogger switch | Not pressed | Battery voltage |
| | | | | | Pressed | 0 V |
| 11 (SB) | Ground | Ignition switch ACC | Input | Ignition switch OFF | 0 V | |
| | | | | Ignition switch ACC or ON | Battery voltage | |
| 12 (P) | Ground | Passenger door switch | Input | Passenger door switch | OFF (When passenger door closed) |  <small>JPMIA0586GB</small> 7.5 - 8.0 V |
| | | | | | ON (When passenger door opened) | 0 V |
| 13 (LG) | Ground | Rear door switch RH | Input | Rear door switch RH | OFF (When rear door RH closed) |  <small>JPMIA0587GB</small> 8.0 - 8.5 V |
| | | | | | ON (When rear door RH opened) | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

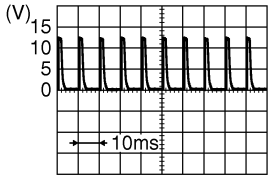
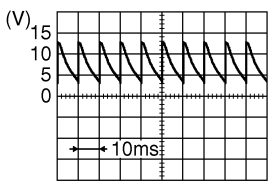
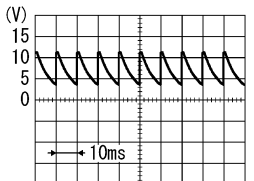
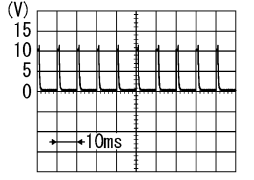
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|--|------------------|---|--|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 14 (G) | Ground | Optical sensor | Input | Ignition switch ON | When bright outside of the vehicle | Close to 5 V |
| | | | | | When dark outside of the vehicle | Close to 0 V |
| 17 (W) | Ground | Optical sensor power supply | Output | Ignition switch | OFF, ACC | 0 V |
| | | | | | ON | 5 V |
| 18* (O) | Ground | Remote keyless entry receiver ground | Input | Ignition switch ON | | 0 V |
| 19* (V) | Ground | Remote keyless entry receiver power supply | Input | Without Intelligent Key system | At any condition | 5 V |
| | | | | With Intelligent Key system | <ul style="list-style-type: none"> • Ignition switch OFF • For 3 seconds after ignition switch OFF to ON | 0 V |
| | | | | | 3 seconds or later after ignition switch OFF to ON | 5 V |
| 20* (GR) | Ground | Remote keyless entry receiver signal | Input | Without Intelligent Key system | At any condition |  <p style="text-align: right; font-size: small;">JPMIA0589GB</p> |
| | | | | | | NOTE: The wave form changes according to signal-receiving condition. |
| | | | | With Intelligent Key system | <ul style="list-style-type: none"> • Ignition switch OFF • For 3 seconds after ignition switch OFF to ON | 0 V |
| | | | | | 3 seconds or later after ignition switch OFF to ON |  <p style="text-align: right; font-size: small;">JPMIA0589GB</p> |
| NOTE: The wave form changes according to signal-receiving condition. | | | | | | |
| 21 (G) | Ground | NATS antenna amp. | Input/ Output | Just after inserting ignition key in key cylinder | | Pointer of tester should move |
| 23 (B) | Ground | Security indicator signal | Input | Security indicator | ON | 0 V |
| | | | | | Blinking (Ignition switch OFF) |  <p style="text-align: right; font-size: small;">JPMIA0590GB</p> |
| | | | | | OFF | Battery voltage |

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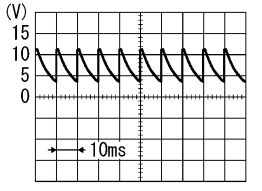
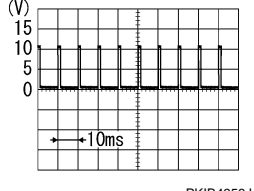
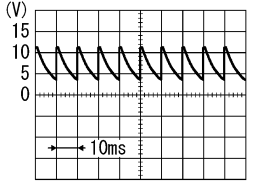
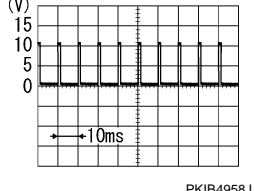
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) | |
|------------------------------|--------|-----------------------------|------------------|---|--|---|-------------|
| + | - | Signal name | Input/ Output | | | | |
| 25 (BR) | Ground | NATS antenna amp. | Input/ Output | Just after inserting ignition key in key cylinder | | Pointer of tester should move | |
| 27 (Y) | Ground | A/C switch | Input | Ignition switch OFF | |  <p style="text-align: right; font-size: small;">JPMAI0591GB</p> | |
| | | | | Ignition switch ON | A/C switch OFF | | 1.6 V |
| | | | | A/C switch ON | | | 0 V |
| 28 (LG) | Ground | Blower fan switch | Input | Ignition switch OFF | |  <p style="text-align: right; font-size: small;">JPMAI0592GB</p> | |
| | | | | Ignition switch ON | Blower fan switch OFF | | 7.0 - 7.5 V |
| | | | | Blower fan switch ON | | | 0 V |
| 29 (W) | Ground | Hazard switch | Input | Hazard switch | OFF | Battery voltage | |
| | | | | | ON | 0 V | |
| 30 (G) | Ground | Back door opener switch | Input | Back door opener switch | Not pressed | Battery voltage | |
| | | | | | Pressed | 0 V | |
| 32 (BR) | Ground | Combination switch OUTPUT 5 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">PKIB4960J</p> | |
| | | | | | Front fog lamp switch ON (Wiper intermittent dial 4) | 7.2 V | |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) |  <p style="text-align: right; font-size: small;">PKIB4966J</p> | |
| | | | | | Any of the condition below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 | | 1.0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

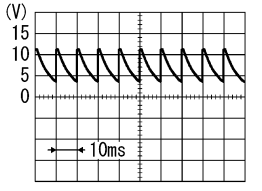
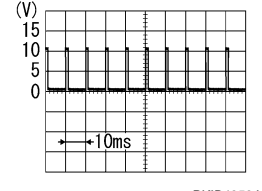
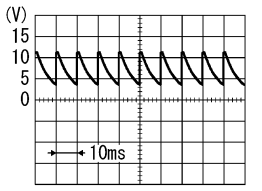
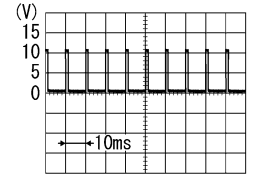
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|---|--------|--------------------------------|------------------|-----------------------|--|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 33 (GR) | Ground | Combination switch OUTPUT 4 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: center;">7.2 V</p> |
| | | | | | Lighting switch 1ST (Wiper intermittent dial 4) |  <p style="text-align: center;">1.2 V</p> |
| | | | | | Lighting switch AUTO (Wiper intermittent dial 4) | |
| | | | | | Rear wiper switch INT (Wiper intermittent dial 4) | |
| Any of the condition below with all switch OFF | | | | | | |
| <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 | | | | | | |
| 34 (L) | Ground | Combination switch OUTPUT 3 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: center;">7.2 V</p> |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  <p style="text-align: center;">1.2 V</p> |
| | | | | | Lighting switch HI (Wiper intermittent dial 4) | |
| | | | | | Rear washer switch ON (Wiper intermittent dial 4) | |
| Any of the condition below with all switch OFF | | | | | | |
| <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 | | | | | | |

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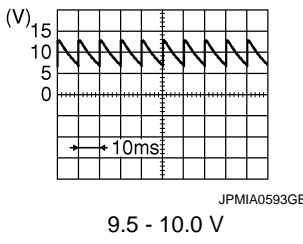
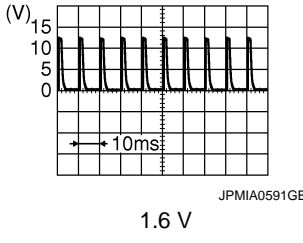
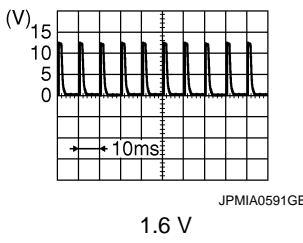
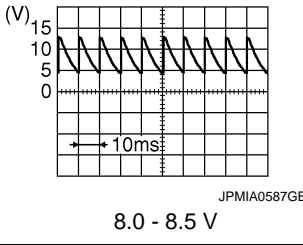
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|--------------------------------|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | | |
| 35 (B) | Ground | Combination switch OUTPUT 2 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  <p style="text-align: right; margin-right: 50px;">7.2 V</p> |
| | | | | | Lighting switch 2ND |  <p style="text-align: right; margin-right: 50px;">1.2 V</p> |
| | | | | | Lighting switch PASS | |
| | | | | | Front wiper switch INT | |
| Front wiper switch HI | | | | | | |
| 36 (V) | Ground | Combination switch OUTPUT 1 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  <p style="text-align: right; margin-right: 50px;">7.2 V</p> |
| | | | | | Turn signal switch RH |  <p style="text-align: right; margin-right: 50px;">1.2 V</p> |
| | | | | | Turn signal switch LH | |
| | | | | | Front wiper switch LO (Front wiper switch MIST) | |
| Front washer switch ON | | | | | | |
| 37 (LG) | Ground | Key switch | Input | Insert mechanical key into ignition key cylinder | Battery voltage | |
| | | | | Remove mechanical key from ignition key cylinder | 0 V | |
| 38 (G) | Ground | Ignition switch ON | Input | Ignition switch OFF or ACC | 0 V | |
| | | | | Ignition switch ON or START | Battery voltage | |
| 39 (L) | Ground | CAN-H | Input/ Output | — | — | |
| 40 (P) | Ground | CAN-L | Input/ Output | — | — | |

BCM (BODY CONTROL MODULE)

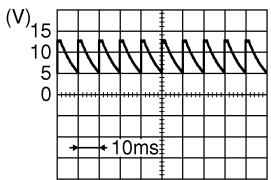
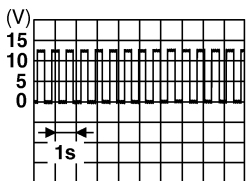
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|-----------------------------|--|---|
| + | - | Signal name | Input/ Output | | | |
| 43 (V) | Ground | Back door switch | Input | Back door switch | OFF (When back door closed) |  |
| | | | | Back door switch | ON (When back door opened) | 0 V |
| 44 (B) | Ground | Rear wiper auto stop | Input | Ignition switch | Rear wiper stop position | 0 V |
| | | | | ON | Any position other than rear wiper stop position | Battery voltage |
| 45 (P) | Ground | Door lock and unlock switch LOCK signal | Input | Door lock and unlock switch | NEUTRAL position |  |
| | | | | Door lock and unlock switch | LOCK position | 0 V |
| 46 (BR) | Ground | Door lock and unlock switch UNLOCK signal | Input | Door lock and unlock switch | NEUTRAL position |  |
| | | | | Door lock and unlock switch | UNLOCK position | 0 V |
| 47 (W) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closed) |  |
| | | | | Driver door switch | ON (When driver door opened) | 0 V |

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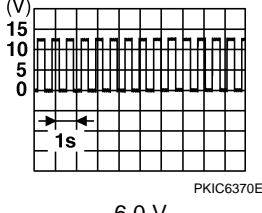
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---------------------------------|------------------|--|--|---|
| + | - | Signal name | Input/ Output | | | |
| 48 (GR) | Ground | Rear door switch LH | Input | Rear door switch LH | OFF (When rear door LH closed) |  <p style="text-align: right; font-size: small;">JPMIA0594GB</p> |
| | | | | | ON (When rear door LH opened) | 0 V |
| 49 (L) | Ground | Luggage room lamp control | Output | Luggage room lamp switch DOOR position | Back door is closed (Luggage room lamp turns OFF) | Battery voltage |
| | | | | | Back door is opened (Luggage room lamp turns ON) | 0 V |
| 53 (V) | Ground | Back door open | Output | Back door opener switch | Not pressed (Back door actuator is activated) | 0 V |
| | | | | | Pressed (Back door actuator is activated) | Battery voltage |
| 55 (SB) | Ground | Rear wiper motor | Output | Ignition switch ON | Rear wiper switch OFF | 0 V |
| | | | | | Rear wiper switch ON | Battery voltage |
| 56 (Y) | Ground | Interior room lamp power supply | Output | | After passing the interior room lamp battery saver operation time | 0 V |
| | | | | | Any other time after passing the interior room lamp battery saver operation time | Battery voltage |
| 57 (G) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 59 (L) | Ground | Driver door UN-LOCK | Output | Driver door | UNLOCK (Actuator is activated) | Battery voltage |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 60 (BR) | Ground | Turn signal LH | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch LH |  <p style="text-align: right; font-size: small;">PKIC6370E</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 61 (GR) | Ground | Turn signal RH | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch RH |  |
| 63 (R) | Ground | Interior room lamp timer control | Output | Interior room lamp | OFF Battery voltage |
| | | | | ON | 0 V |
| 65 (V) | Ground | All doors LOCK | Output | All doors | LOCK (Actuator is activated) Battery voltage |
| | | | | Other then LOCK (Actuator is not activated) | 0 V |
| 66 (G) | Ground | Passenger door and rear door UNLOCK | Output | Passenger door and rear door | UNLOCK (Actuator is activated) Battery voltage |
| | | | | Other then UNLOCK (Actuator is not activated) | 0 V |
| 67 (B) | Ground | Ground | Output | Ignition switch ON | 0 V |
| 68 (L) | Ground | P/W power supply (RAP) | Output | Ignition switch ON | Battery voltage |
| 69 (P) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | Battery voltage |
| 70 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |

*: Except for Mexico with Intelligent Key

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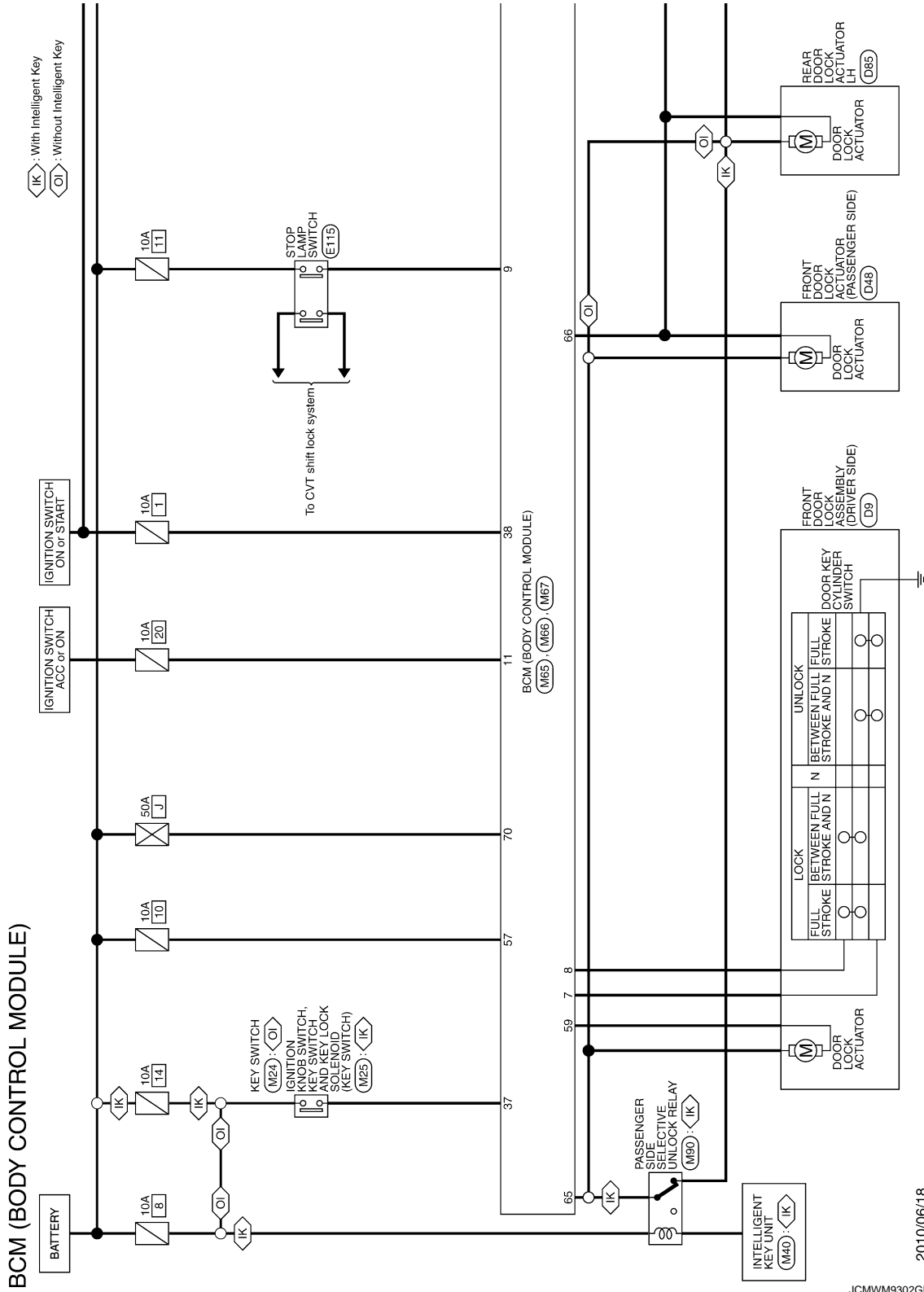
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

INFOID:000000006751867



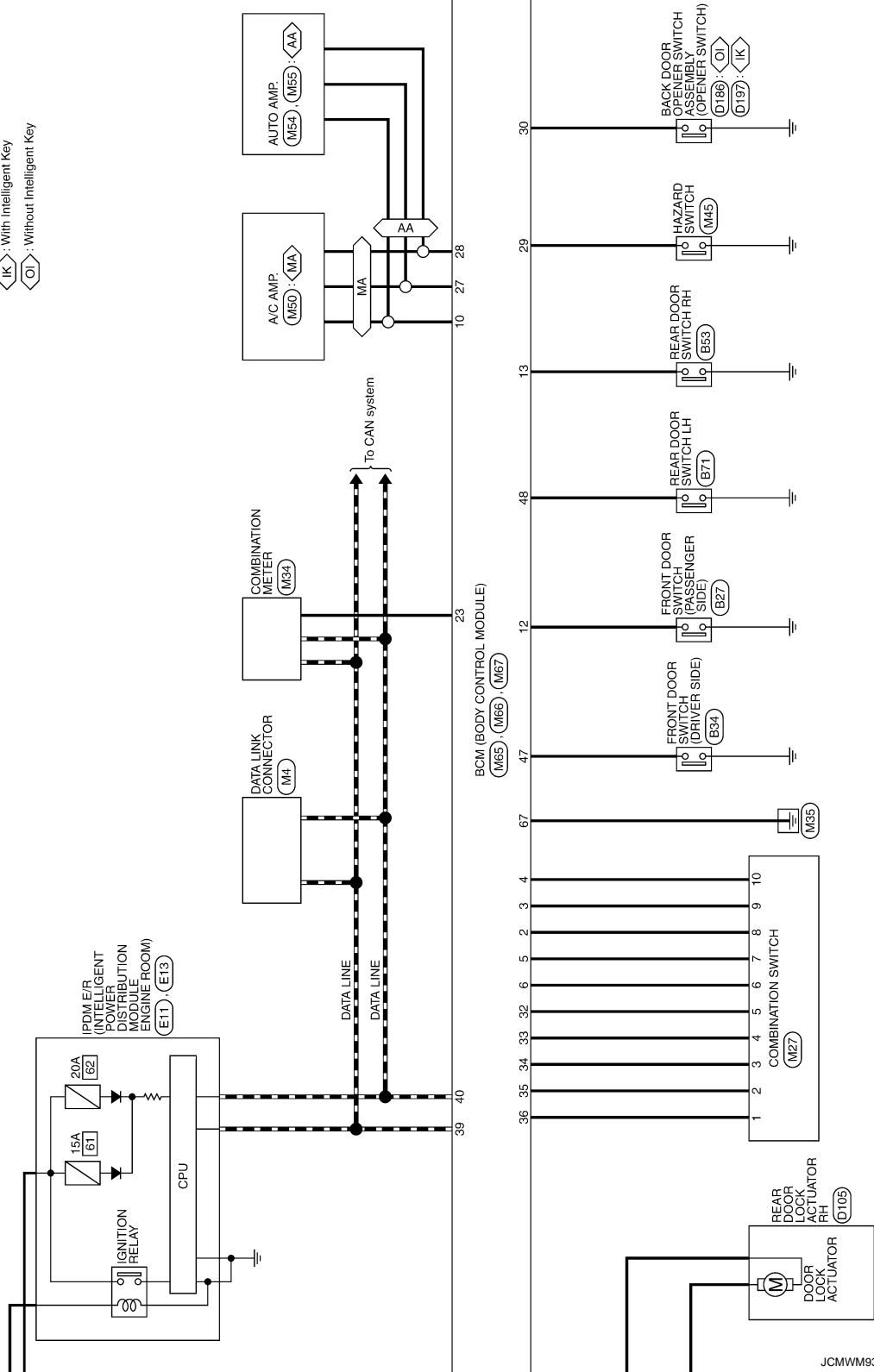
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JCMWM9302GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

- ◊ AA : With auto A/C
- ◊ MA : With manual A/C
- ◊ IK : With Intelligent Key
- ◊ DI : Without Intelligent Key

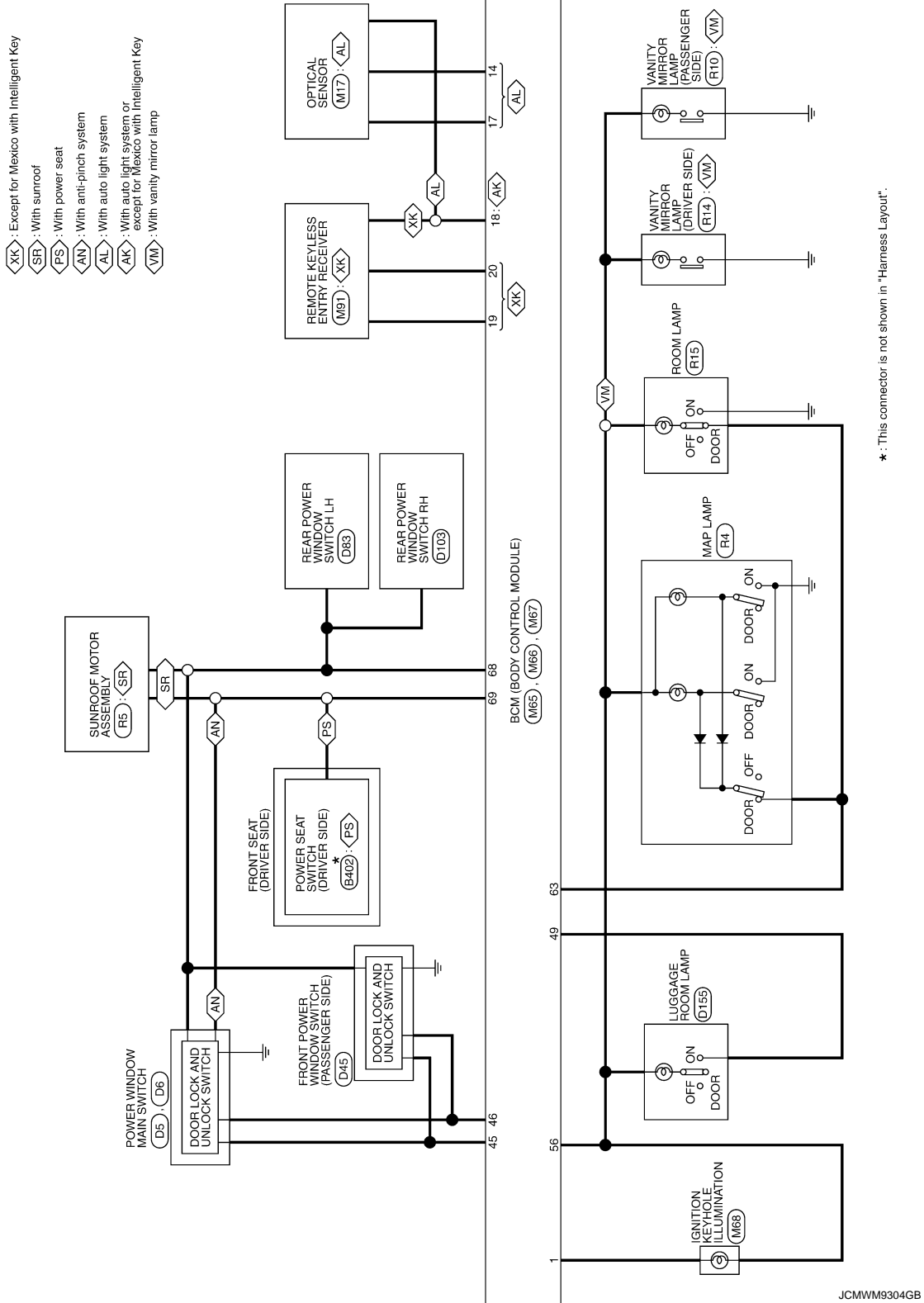


JCMWM9303GB

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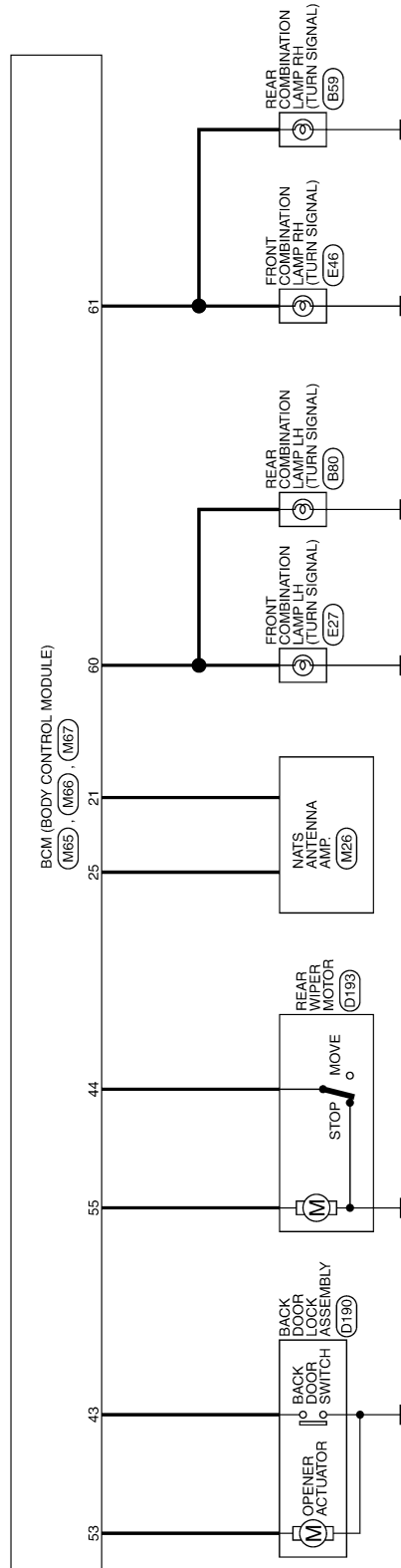
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JCMWM9305GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TK16FW |



| | | | | | | | |
|----|----|----|---|---|---|---|---|
| 12 | 13 | 10 | 9 | 8 | 7 | | |
| 14 | 11 | 1 | 2 | 3 | 4 | 5 | 6 |

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

| | |
|----------------|---------------------------|
| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40PW-NH |



| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | KEY RING OUTPUT |
| 2 | G | INPUT 5 |
| 3 | Y | INPUT 4 |
| 4 | W | INPUT 3 |
| 5 | R | INPUT 2 |
| 6 | P | INPUT 1 |
| 7 | L | KEY CYG UNLOCK |
| 8 | R | KEY CYL LOCK SW |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | R | BRAKE SW |
| 10 | SR | RR DEF SW |
| 11 | SS | AJCC |
| 12 | SP | DR SW AS |
| 13 | LG | DR SW RR |
| 14 | G | AUTO LIGHT SENS INPUT |
| 17 | W | SENS POWER SUPPLY |
| 18 | O | KEYLESS TUNER SENS GND |
| 19 | V | KEYLESS TUNER POWER |
| 20 | GR | KEYLESS TUNER SIGNAL |
| 21 | G | IMMOBILANT (CLOCK) |
| 23 | B | SECURITY IND OUT PUT |
| 25 | BR | IMMOBILANT (RX, TX) |
| 27 | Y | AIRCON SW |
| 28 | LG | BLOWER FAN SW |
| 29 | W | HAZARD SW |
| 30 | G | BACK DOOR OPEN SW |
| 32 | BR | OUTPUT 5 |
| 33 | GR | OUTPUT 4 |
| 34 | L | OUTPUT 3 |
| 35 | B | OUTPUT 2 |
| 36 | V | OUTPUT 1 |
| 37 | LG | KEY SW |
| 38 | G | IGN |
| 39 | L | CAN-H |
| 40 | P | CAN-L |

| | |
|----------------|---------------------------|
| Connector No. | M66 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |



| | | | | | | | | |
|----|----|----|----|----|----|----|----|----|
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 | | | |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | V | BACK DOOR SW |
| 44 | B | RR WIP AUTO STOP |
| 45 | P | GDLOCK SW |
| 46 | BR | CDUNLOCK SW |
| 47 | W | DR SW DR |
| 48 | GR | DR SW RL |
| 49 | L | LUGGAGE LAMP OUTPUT |
| 53 | V | BACK DOOR OPENER OUTPUT |
| 55 | SR | RR WIP MTR OUT |

| | |
|----------------|---------------------------|
| Connector No. | M67 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FB-FHA6-SA |



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

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56 | Y | BATTERY SAVER OUTPUT |
| 57 | G | BAT FUSE |
| 59 | L | D/L UNLOCK DR |
| 60 | BR | FLASHER OUT PUT (LEFT) |
| 61 | GR | FLASHER OUT PUT (RIGHT) |
| 63 | R | ROOM LAMP OUTPUT |
| 65 | V | D/L LOCK ALL |
| 66 | G | D/L UNLOCK OTHER |
| 67 | B | GND |
| 68 | L | POWER WDW OUTPUT (RAP) |
| 69 | P | POWER WDW OUTPUT (BAT) |
| 70 | Y | BAT FL |

Fail-safe

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 more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

1. Pass more than 1 minute after the rear wiper stop.
2. Turn the rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:000000006751869

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

| Priority | DTC |
|----------|---|
| 1 | U1000: CAN COMM CIRCUIT |
| 2 | C1735: IGN CIRCUIT OPEN |
| 3 | <ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1716: [PRESS DATA ERR] FL • C1717: [PRESS DATA ERR] FR • C1718: [PRESS DATA ERR] RR • C1719: [PRESS DATA ERR] RL • C1729: VHCL SPEED SIG ERR |

DTC Index

INFOID:000000006751870

NOTE:

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

| CONSULT display | Tire pressure monitor warning lamp ON | Reference |
|----------------------------|---------------------------------------|------------------------|
| U1000: CAN COMM CIRCUIT | — | BCS-34 |
| C1704: LOW PRESSURE FL | × | WT-13 |
| C1705: LOW PRESSURE FR | × | |
| C1706: LOW PRESSURE RR | × | |
| C1707: LOW PRESSURE RL | × | WT-15 |
| C1708: [NO DATA] FL | × | |
| C1709: [NO DATA] FR | × | |
| C1710: [NO DATA] RR | × | |
| C1711: [NO DATA] RL | × | WT-18 |
| C1716: [PRESS DATA ERR] FL | × | |
| C1717: [PRESS DATA ERR] FR | × | |
| C1718: [PRESS DATA ERR] RR | × | |
| C1719: [PRESS DATA ERR] RL | × | WT-20 |
| C1729: VHCL SPEED SIG ERR | × | |
| C1735: IGN CIRCUIT OPEN | — | BCS-35 |

INTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000006204566

CAUTION:

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

| Symptom | Possible cause | Inspection item |
|---|--|---|
| All the following lamps do not turn ON. <ul style="list-style-type: none"> • Map lamp • Room lamp • Ignition keyhole illumination • Vanity mirror lamp • Luggage room lamp | <ul style="list-style-type: none"> • Harness between BCM and each interior room lamp • BCM | Interior room lamp power supply circuit Refer to INL-19 . |
| <ul style="list-style-type: none"> • Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed. | <ul style="list-style-type: none"> • Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM | Each door switch circuit Refer to DLK-301 . Interior room lamp control circuit Refer to INL-21 . |
| 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-15 . |
| <ul style="list-style-type: none"> • Luggage room lamp does not turn ON. (The bulb is normal.) • Luggage room lamp does not turn OFF. | <ul style="list-style-type: none"> • Harness between BCM and back door switch • Harness between BCM and luggage room lamp • BCM | Back door switch circuit Refer to DLK-301 Luggage room lamp circuit Refer to INL-25 |
| Ignition keyhole illumination does not illuminate. | <ul style="list-style-type: none"> • Harness between BCM and ignition keyhole illumination • BCM | Ignition keyhole illumination circuit Refer to INL-23 |
| Interior room lamp battery saver does not activate. | — | Check the interior room lamp battery saver setting. Refer to INL-16 . |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000006204567

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

FOR MEXICO

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

INFOID:000000006204568

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. 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 "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with

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PRECAUTIONS

< PRECAUTION >

- 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.

MAP LAMP

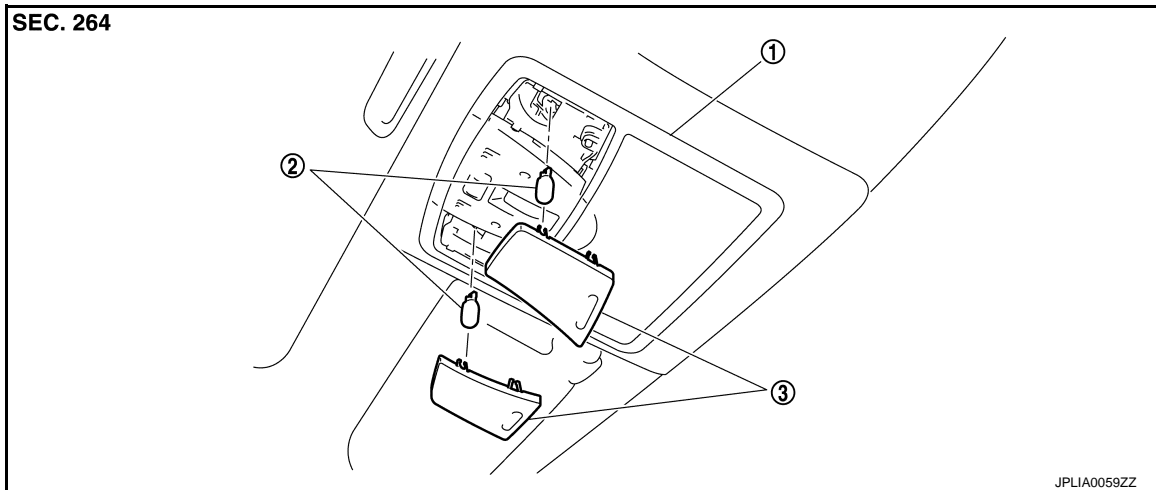
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

MAP LAMP

Exploded View

INFOID:000000006204569



1. Map lamp assembly

2. Bulb

3. Lens

Removal and Installation

INFOID:000000006204570

Normal roof

Refer to [INT-25. "NORMAL ROOF : Exploded View"](#) for the map lamp assembly installation/removal.

Sun roof

Refer to [INT-28. "SUNROOF : Exploded View"](#) for the map lamp assembly installation/removal.

Replacement

INFOID:000000006204571

CAUTION:

Disconnect the battery negative terminal or the fuse.

MAP LAMP BULB

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

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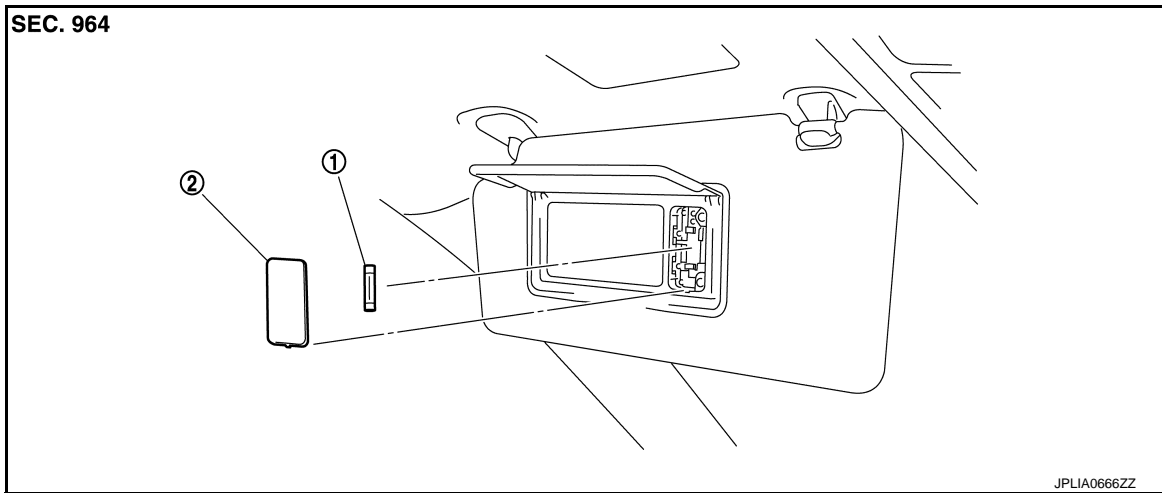
VANITY MIRROR LAMP

< REMOVAL AND INSTALLATION >

VANITY MIRROR LAMP

Exploded View

INFOID:000000006204572



1. Bulb

2. Lens

Replacement

INFOID:000000006204573

CAUTION:

Disconnect the battery negative terminal or the fuse.

VANITY MIRROR LAMP BULB

1. Insert any appropriate tool into the gap between the lens. Remove the lens.
2. Remove the bulb.

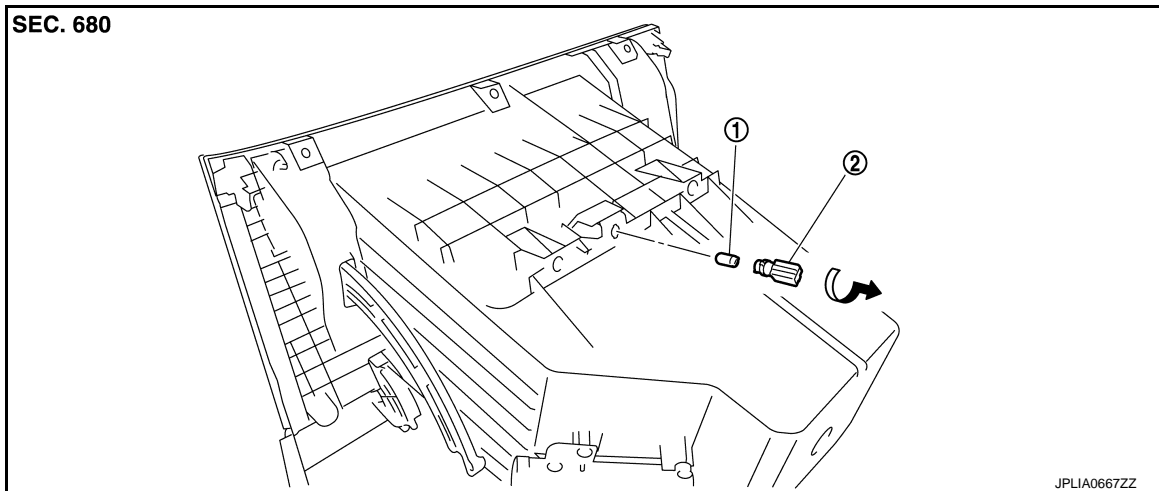
GLOVE BOX LAMP

< REMOVAL AND INSTALLATION >

GLOVE BOX LAMP

Exploded View

INFOID:000000006204574



1. Bulb

2. Bulb socket

Replacement

INFOID:000000006204575

CAUTION:

Disconnect the battery negative terminal or the fuse.

GLOVE BOX LAMP BULB

1. Remove the glove box assembly. Refer to [IP-13, "Exploded View"](#).
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb.

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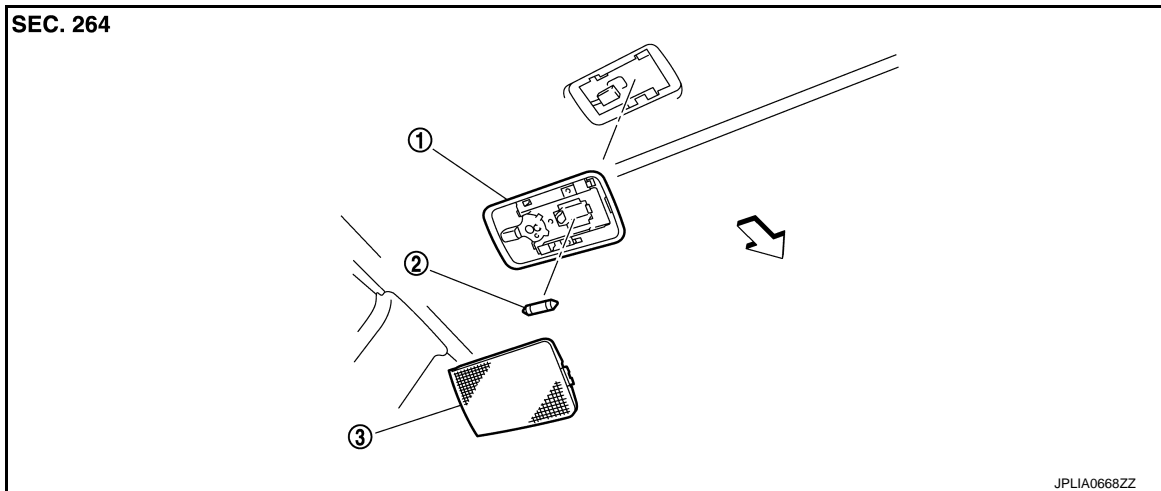
ROOM LAMP

< REMOVAL AND INSTALLATION >

ROOM LAMP

Exploded View

INFOID:000000006204576



1. Room lamp bulb housing

2. Bulb

3. Lens

↶ : Vehicle front

Removal and Installation

INFOID:000000006204577

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the lens. And then remove the lens.
2. Insert any appropriate tool into the gap between the room lamp bulb housing and headlining. And then remove the room lamp bulb housing.
3. Disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000006204578

CAUTION:

Disconnect the battery negative terminal or the fuse.

ROOM LAMP BULB

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

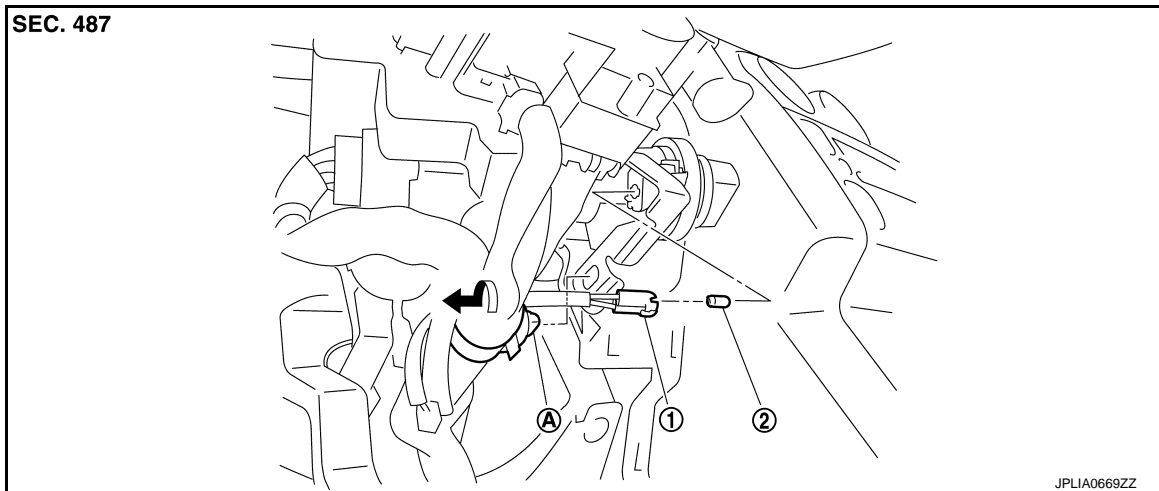
IGNITION KEYHOLE ILLUMINATION

< REMOVAL AND INSTALLATION >

IGNITION KEYHOLE ILLUMINATION

Exploded View

INFOID:000000006204579



- 1. Bulb socket
- 2. Bulb
- A. Harness clip

Replacement

INFOID:000000006204580

CAUTION:

Disconnect the battery negative terminal or the fuse.

IGNITION KEYHOLE ILLUMINATION BULB

1. Remove steering column cover. Refer to [IP-13, "Exploded View"](#).
2. Remove the harness clip.
3. Rotate the bulb socket counterclockwise and unlock it.
4. Remove the bulb.

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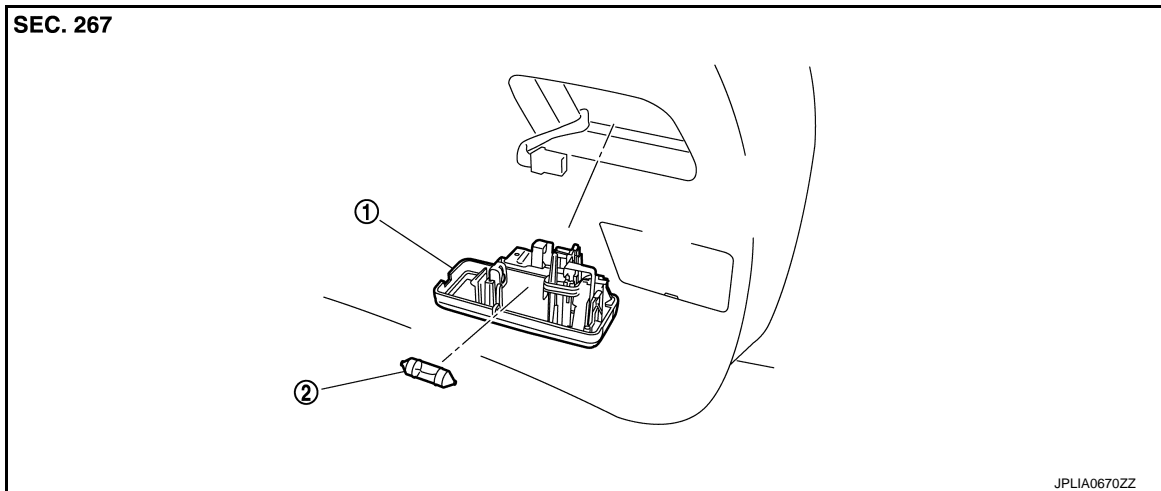
LUGGAGE ROOM LAMP

< REMOVAL AND INSTALLATION >

LUGGAGE ROOM LAMP

Exploded View

INFOID:000000006204581



1. Luggage room lamp assembly
2. Bulb

Removal and Installation

INFOID:000000006204582

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

1. Insert any appropriate tool into the gap between the luggage room lamp assembly and back door trim finisher lower. Remove the luggage room lamp assembly.
2. Disconnect the connector.

INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000006204583

CAUTION:

Disconnect the battery negative terminal or the fuse.

LUGGAGE ROOM LAMP BULB

1. Remove the luggage room lamp assembly.
2. Remove the bulb.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:000000006204584

| Item | Type | Wattage (W) |
|-------------------------------|-------|-------------|
| Map lamp | Wedge | 8 |
| Room lamp | — | 8 |
| Ignition keyhole illumination | — | 1.4 |
| Vanity mirror lamp | — | 2 |
| Grove box lamp | — | 1.4 |
| Luggage room lamp | — | 8 |

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