

EXL

SECTION EXL

EXTERIOR LIGHTING SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

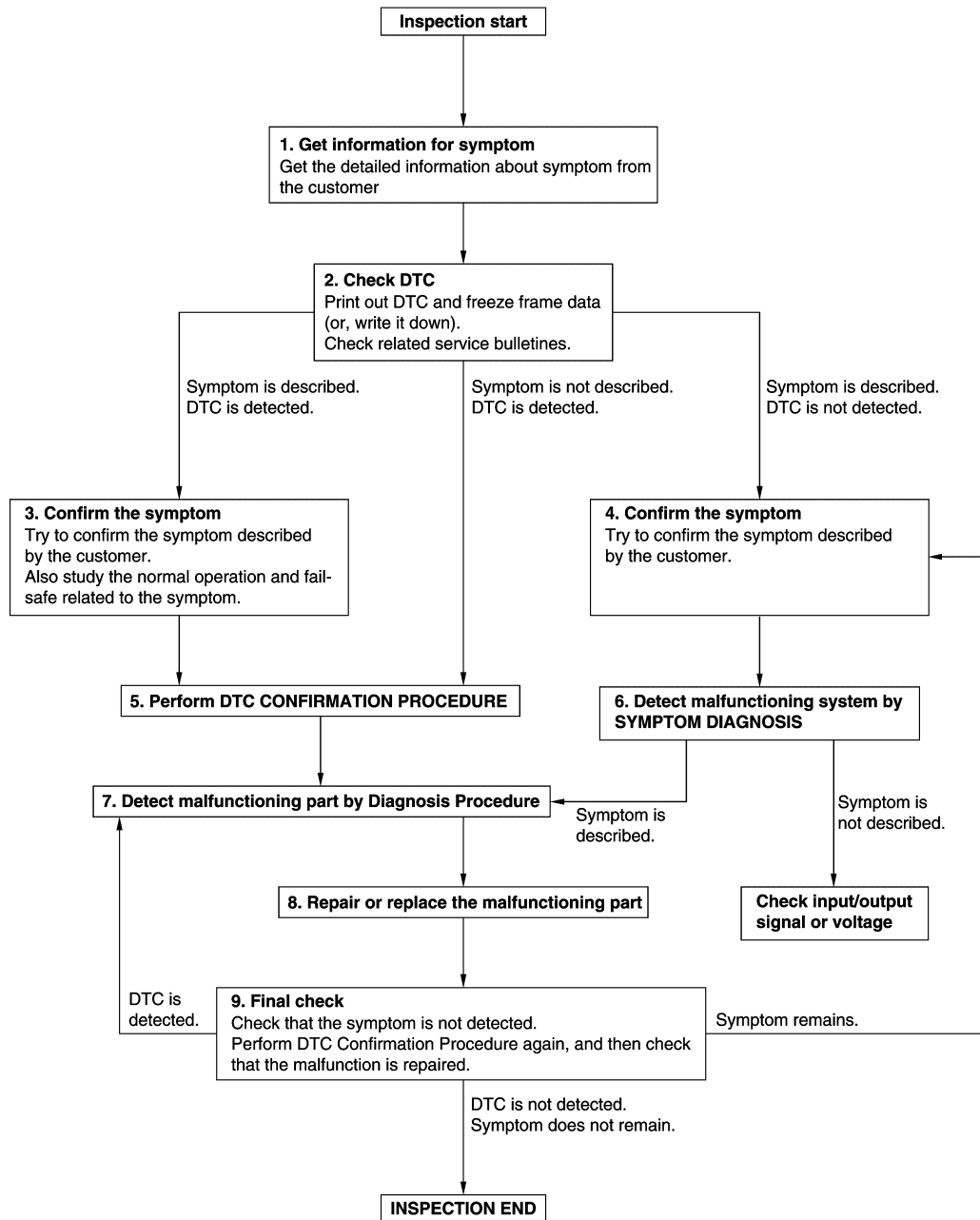
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

Revision: 2013 October

EXL-4

2014 CUBE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

- Symptom is described, DTC is detected>>GO TO 3.
- Symptom is described, DTC is not detected>>GO TO 4.
- Symptom is not described, DTC is detected>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to DTC INSPECTION PRIORITY CHART, and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Check according to [GI-40. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

- YES >> GO TO 7.
- NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-40. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

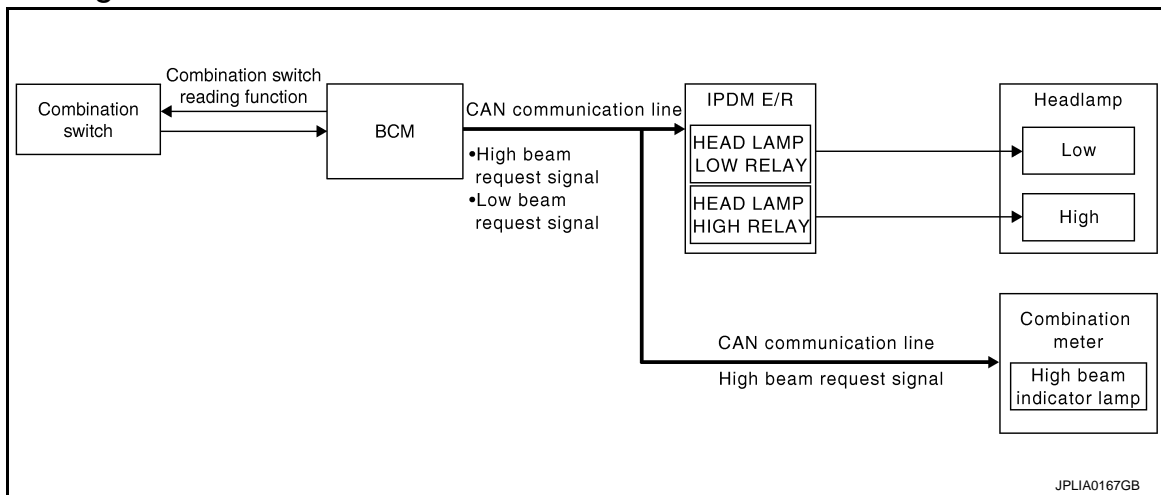
HEADLAMP SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

HEADLAMP SYSTEM

System Diagram



System Description

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OUTLINE

Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

HEADLAMP (LO) OPERATION

- BCM detects the combination switch condition with the combination switch reading function.
- BCM transmits the low beam request signal to IPDM E/R with CAN communication according to the headlamp (LO) ON condition.

Headlamp (LO) ON condition

- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (With auto light system)
- IPDM E/R turns the integrated headlamp low relay ON, and turns the headlamp ON according to the low beam request signal.

HEADLAMP (HI) OPERATION

- BCM transmits the high beam request signal to IPDM E/R and the combination meter with CAN communication according to the headlamp (HI) ON condition.

Headlamp (HI) ON condition

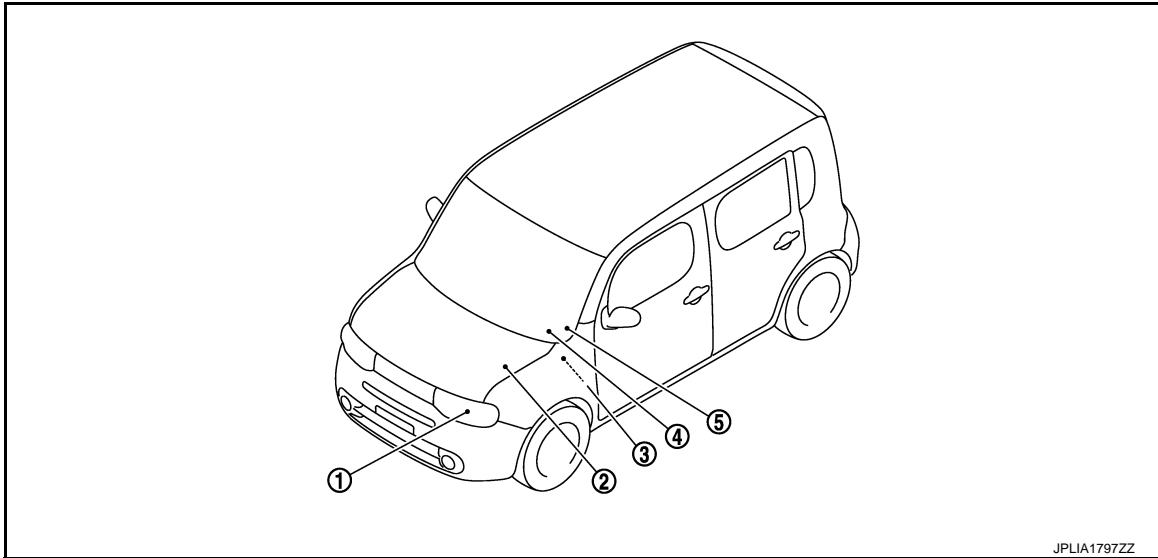
- Lighting switch HI with the lighting switch 2ND or AUTO (auto light function ON judgment)
- Lighting switch PASS
- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the integrated headlamp high relay ON, and turns the headlamp ON according to the high beam request signal.

HEADLAMP SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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|--|---|---|
| 1. Headlamp | 2. IPDM E/R Refer to PCS-5, "Component Parts Location" (with Intelligent Key) or PCS-36, "Component Parts Location" (without Intelligent Key). | 3. BCM Refer to BCS-10, "Component Parts Location" (with Intelligent Key) or BCS-95, "Component Parts Location" (without Intelligent Key). |
| 4. Combination meter (High beam indicator lamp) | 5. Combination switch | |

Component Description

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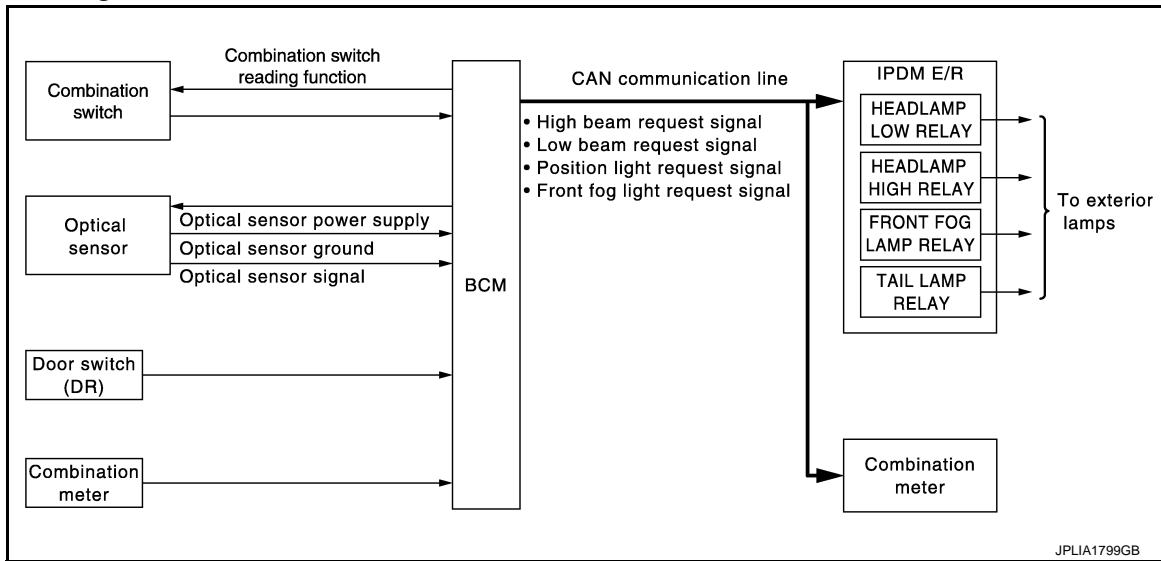
| Part | Description |
|---|---|
| BCM | <ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges that the headlamp is turned ON according to the vehicle condition. - Requests the headlamp relay (HI/LO) ON to IPDM E/R (with CAN communication). - Requests the high beam indicator lamp ON to the combination meter (with CAN communication). |
| IPDM E/R | Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" (with Intelligent Key) or BCS-96, "System Diagram" (without Intelligent Key). |
| Combination meter (High beam indicator lamp) | Turns the high beam indicator lamp ON according to the request from BCM (with CAN communication). |

AUTO LIGHT SYSTEM

< SYSTEM DESCRIPTION >

AUTO LIGHT SYSTEM

System Diagram



System Description

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OUTLINE

- Auto light system is controlled by each function of BCM and IPDM E/R.

Control by BCM

- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function
- Wiper linked auto lighting function

Control by IPDM E/R

- Relay control function
- Auto light system has the auto light function (with twilight lighting function), wiper linked auto lighting function and delay timer function.
- Auto light function automatically turns ON/OFF the exterior lamps* and each illumination automatically, depending on the outside brightness.
- Wiper linked auto lighting function automatically turns ON/OFF the exterior lamps* and each illumination when the light switch is in the AUTO position, according to a front wiper operation.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns the exterior lamps OFF, depending on the vehicle condition with the auto light function after a certain period of time.

*: Headlamp (LO/HI), parking lamp (illuminated as front side marker lamps too), tail lamp, rear side marker lamp and front fog lamp (Headlamp HI and front fog lamp depend on the combination switch condition.)

NOTE:

The settings of the twilight lighting function and the wiper linked auto lighting function can be changed with CONSULT. Refer to [EXL-21, "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)"](#).

AUTO LIGHT FUNCTION (WITH TWILIGHT LIGHTING FUNCTION)

Description

- BCM detects the combination switch condition with the combination switch reading function.
- BCM supplies voltage to the optical sensor when the ignition switch is turned ON or ACC.
- Optical sensor converts outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.
- BCM detects outside brightness from the optical sensor signal and judges ON/OFF condition of the exterior lamp and each illumination, depending on the outside brightness condition (standard or twilight).
- BCM transmits each request signal to IPDM E/R via CAN communication, according to ON/OFF condition by the auto light function.

AUTO LIGHT SYSTEM

< SYSTEM DESCRIPTION >

NOTE:

As to ON/OFF timing, the sensitivity depends on settings. The settings can be changed with CONSULT. Refer to [EXL-21, "HEADLAMP : CONSULT Function \(BCM - HEAD LAMP\)"](#).

WIPER LINKED AUTO LIGHTING FUNCTION

BCM turns the exterior lamp ON when detecting 4 operations of the front wiper work the light switch in AUTO position.

NOTE:

BCM turns OFF the headlamps 3 seconds after the front wiper switch is turned from HI⇒OFF.

DELAY TIMER FUNCTION

BCM turns the exterior lamp OFF depending on the vehicle condition with the auto light function when the ignition switch is turned OFF.

- Turns the exterior lamp OFF 5 minutes after detecting that any door opens (Door switch ON).
- Turns the exterior lamp OFF a certain period of time* after closing all doors (Door switch ON⇒OFF).
- Turns the exterior lamp OFF with the ignition switch ACC or the light switch OFF.

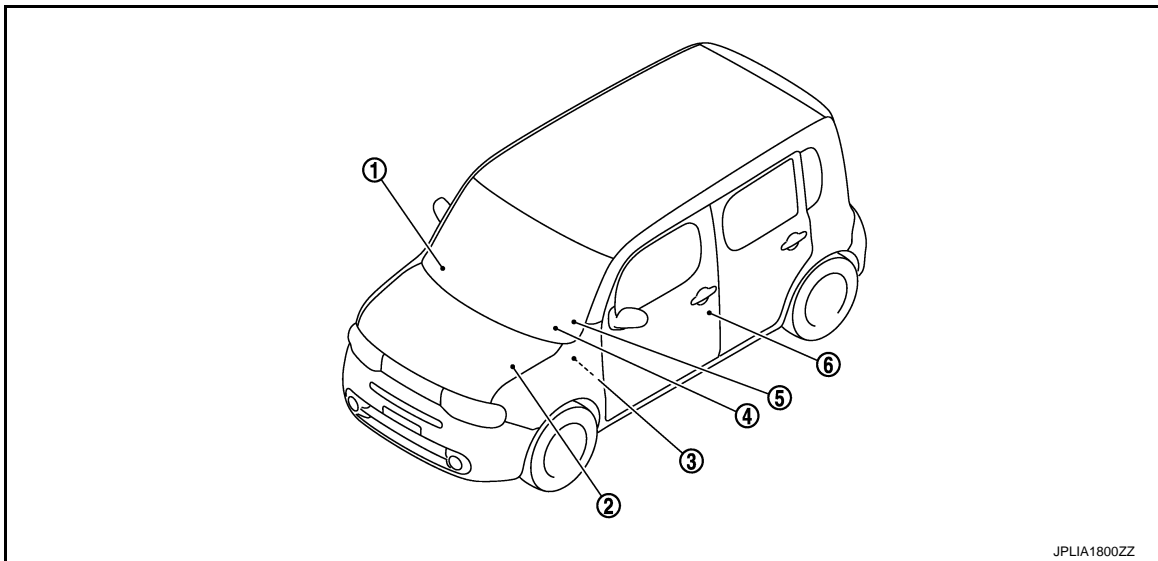
*: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to [EXL-21, "HEAD-LAMP : CONSULT Function \(BCM - HEAD LAMP\)"](#).

NOTE:

When any position other than the light switch AUTO is set, the auto light system function switches to the exterior lamp battery saver function.

Component Parts Location

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| 1. Optical sensor | 2. IPDM E/R Refer to PCS-5, "Component Parts Location" (with Intelligent Key) or PCS-36, "Component Parts Location" (without Intelligent Key). | 3. BCM Refer to BCS-10, "Component Parts Location" (with Intelligent Key) or BCS-95, "Component Parts Location" (without Intelligent Key). |
| 4. Combination meter | 5. Combination switch | 6. Door switch |

AUTO LIGHT SYSTEM

< SYSTEM DESCRIPTION >

Component Description

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| Part | Description |
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| BCM | <ul style="list-style-type: none">• Detects each switch condition by the combination switch reading function.• Judges the outside brightness from the optical sensor signal.• Judges the OFF timing according to the vehicle condition.• Judges the ON/OFF status of the exterior lamp and each illumination according to the outside brightness and the vehicle condition.- Requests ON/OFF of each relay to IPDM E/R (with CAN communication). |
| IPDM E/R | Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" (with Intelligent Key) or BCS-96, "System Diagram" (without Intelligent Key). |
| Optical sensor | Refer to EXL-53, "Description" . |

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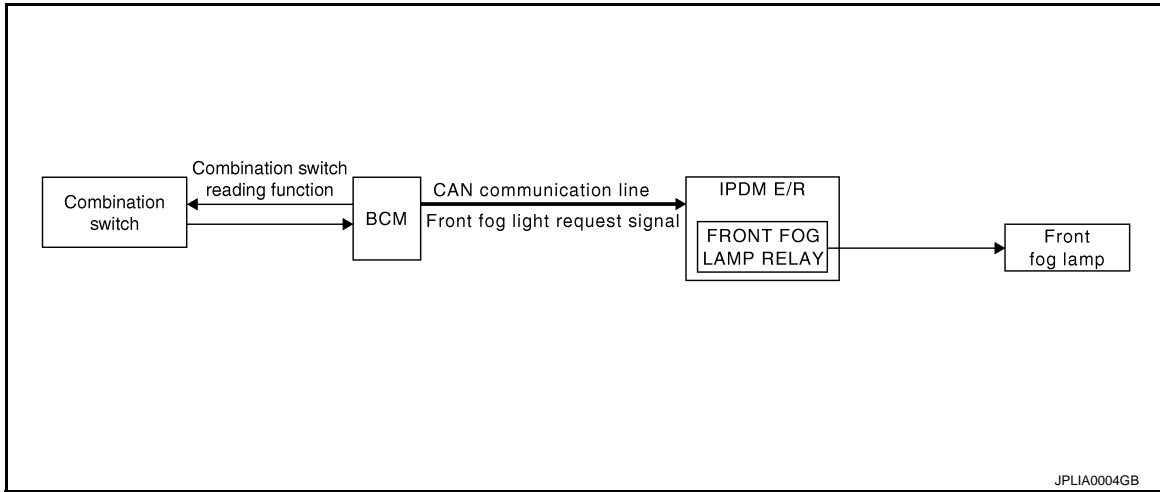
FRONT FOG LAMP SYSTEM

< SYSTEM DESCRIPTION >

FRONT FOG LAMP SYSTEM

System Diagram

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System Description

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OUTLINE

Front fog lamp is controlled by combination switch reading function and front fog lamp control function of BCM, and relay control function of IPDM E/R.

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog lights request signal to IPDM E/R with CAN communication according to the front fog lamp ON condition.

Front fog lamp ON condition

- Front fog lamp switch ON and any of the followings. (except for the high beam ON)

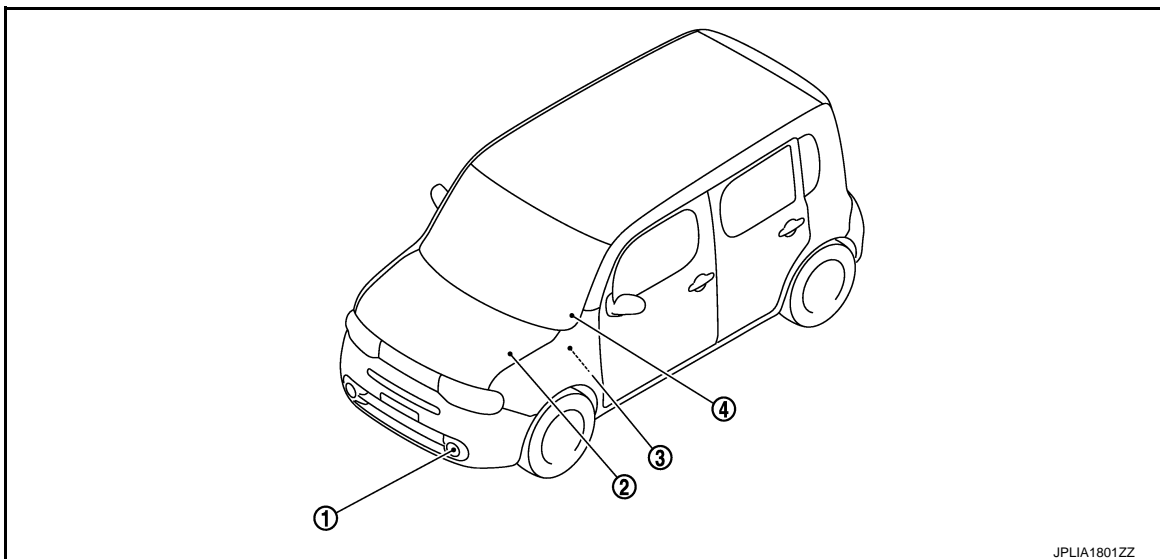
- Lighting switch 2ND
- Lighting switch AUTO and the ignition switch ON

NOTE:

- Headlamp, front fog lamp, parking lamp, licence plate lamp, side marker lamp and tail lamp are turned ON.
- IPDM E/R turns the integrated front fog lamp relay ON, and turns the front fog lamp ON according to the front fog lights request signal.

Component Parts Location

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FRONT FOG LAMP SYSTEM

< SYSTEM DESCRIPTION >

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| 1. Front fog lamp | 2. IPDM E/R Refer to PCS-5, "Component Parts Location" . | 3. BCM Refer to BCS-10, "Component Parts Location" . | A |
| 4. Combination switch | | | B |

Component Description

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| Part | Description | C |
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| BCM | <ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the front fog lamp ON/OFF status according to the vehicle condition. - Requests the front fog lamp relay ON to IPDM E/R (with CAN communication). | D |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication). | E |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" . | F |

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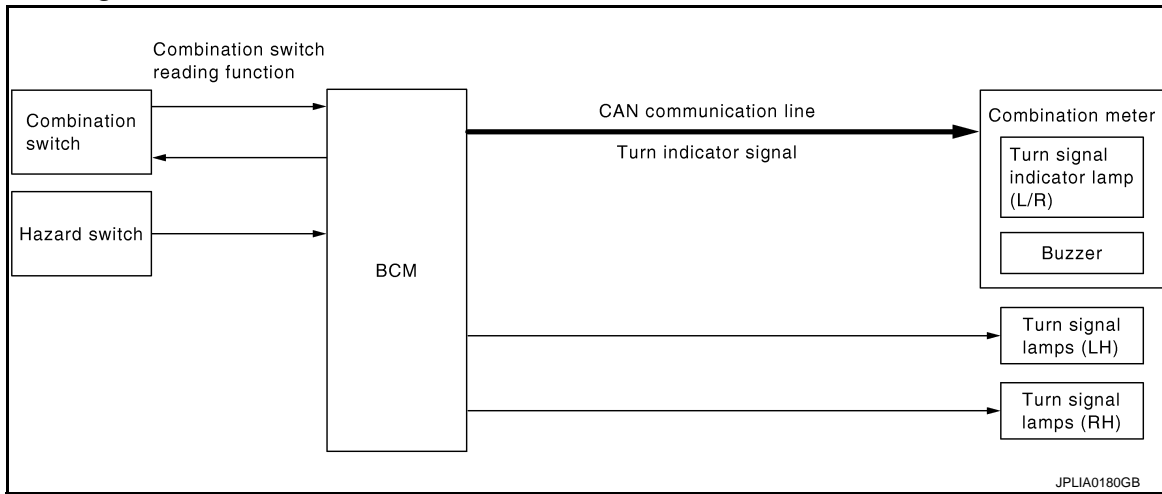
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< SYSTEM DESCRIPTION >

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram



System Description

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OUTLINE

Turn signal lamp and the hazard warning lamp is controlled by combination switch reading function and the flasher control function of BCM.

TURN SIGNAL LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM supplies voltage to the right (left) turn signal lamp circuit when the ignition switch is turned ON and the turn signal switch is in the right (left) position. BCM blinks the turn signal lamp.

HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is turned ON. BCM blinks the hazard warning lamp.

TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL OPERATION

- BCM transmits the turn signal indicator lamp signal to the combination meter with CAN communication while the turn signal lamp and the hazard warning lamp are operating.
- Combination meter outputs the turn signal sound with the integrated buzzer while blinking the turn signal indicator lamp according to the turn signal indicator lamp signal.

HIGH FLASHER OPERATION

- BCM detects the turn signal lamp circuit status from the terminal voltage.
- BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

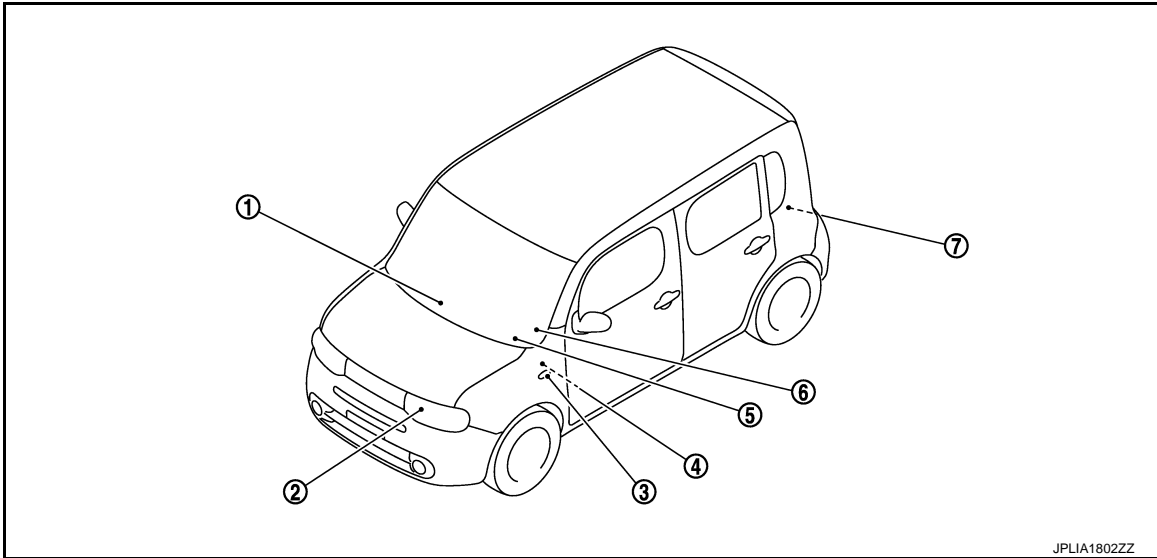
The blinking speed is normal while operating the hazard warning lamp.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|---|--|--------------------------|
| 1. Hazard switch | 2. Front turn signal lamp | 3. Side turn signal lamp |
| 4. BCM Refer to BCS-10, "Component Parts Location" (with Intelligent Key) or BCS-95, "Component Parts Location" (without Intelligent Key). | 5. Combination meter (Turn signal indicator lamp) | 6. Combination switch |
| 7. Rear turn signal lamp | | |

Component Description

INFOID:000000009945117

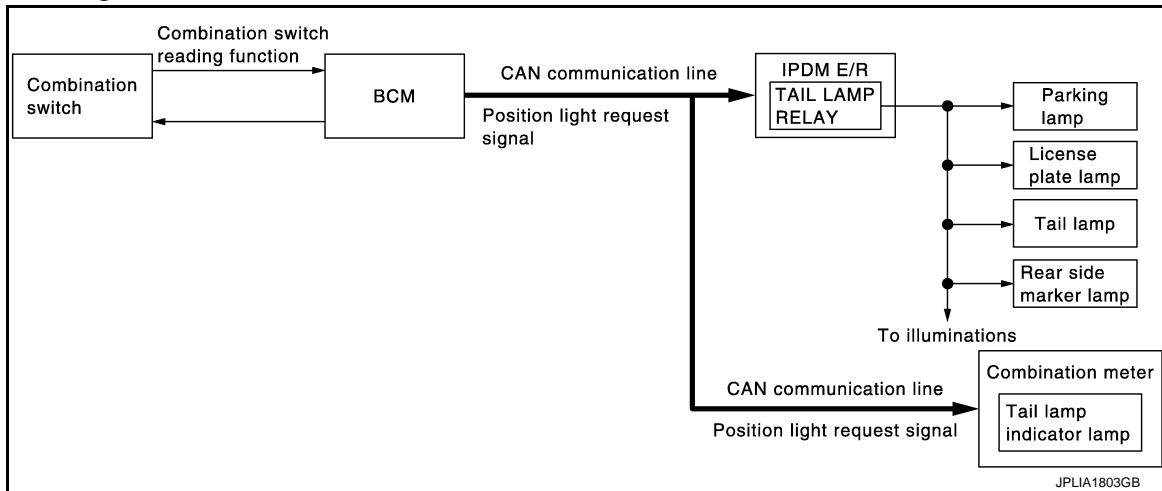
| Part | Description |
|--|---|
| BCM | <ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the blinks of the turn signal lamp and the hazard warning lamp from each switch status. The applicable turn signal lamp blinks. • Requests the turn signal indicator lamp blink to the combination meter (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" (with Intelligent Key) or BCS-96, "System Diagram" (without Intelligent Key). |
| Hazard switch | Inputs the hazard switch ON/OFF signal to BCM. |
| Combination meter (Turn signal indicator lamp & buzzer) | Blinks the turn signal indicator lamp and outputs the turn signal operating sound with integrated buzzer according to the request from BCM (with CAN communication). |

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< SYSTEM DESCRIPTION >

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

System Diagram



System Description

INFOID:000000009945119

OUTLINE

Parking*, license plate, tail and rear side marker lamps are controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

*: Illuminated as front side marker lamps too.

PARKING, LICENSE PLATE, TAIL AND REAR SIDE MARKER LAMPS OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R and the combination meter with CAN communication according to the ON/OFF condition of the parking, license plate, tail and rear side marker lamps.

Parking, license plate, tail and rear side marker lamps ON condition

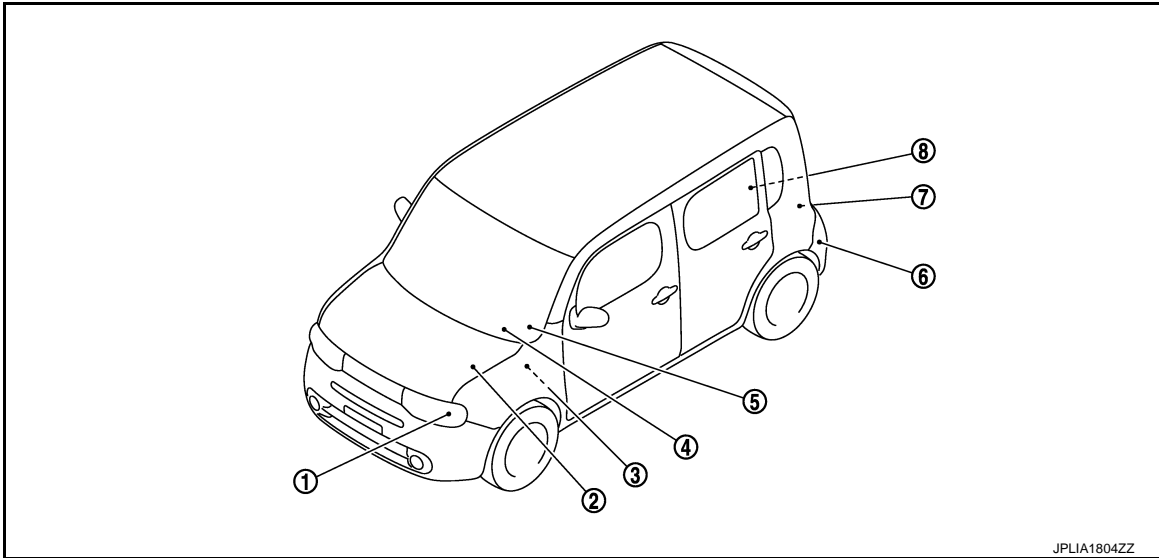
- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment (with auto light system)
- IPDM E/R turns the integrated tail lamp relay ON and turns the parking lamp, the license plate, tail and rear side marker lamps ON according to the position light request signal.
- Combination meter turns the tail lamp indicator lamp ON according to the position light request signal.

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000009945120



- | | | |
|--|---|---|
| <p>1. Parking lamp (Front side marker lamp)</p> <p>4. Combination meter (Tail lamp indicator lamp)</p> <p>7. Tail lamp</p> | <p>2. IPDM E/R Refer to PCS-5, "Component Parts Location" (with Intelligent Key) or PCS-36, "Component Parts Location" (without Intelligent Key).</p> <p>5. Combination switch</p> <p>8. License plate lamp</p> | <p>3. BCM Refer to BCS-10, "Component Parts Location" (with Intelligent Key) or BCS-95, "Component Parts Location" (without Intelligent Key).</p> <p>6. Rear side marker lamp</p> |
|--|---|---|

Component Description

INFOID:000000009945121

| Part | Description |
|---|--|
| BCM | <ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Judges the ON/OFF status of the parking, license plate, tail and rear side marker lamps according to the vehicle condition. - Requests the tail lamp relay ON to IPDM E/R (with CAN communication). - Requests the tail lamp indicator lamp ON to the combination meter (with CAN communication). |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" (with Intelligent Key) or BCS-96, "System Diagram" (without Intelligent Key). |
| Combination meter (Tail lamp indicator lamp) | Turns the tail lamp indicator lamp ON according to the request from BCM (with CAN communication). |

EXTERIOR LAMP BATTERY SAVER SYSTEM

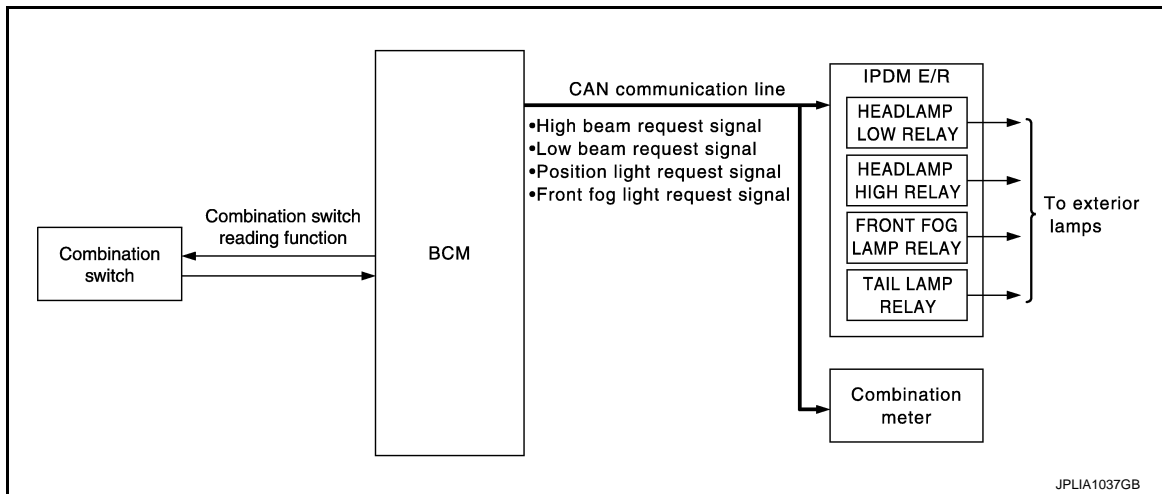
< SYSTEM DESCRIPTION >

EXTERIOR LAMP BATTERY SAVER SYSTEM

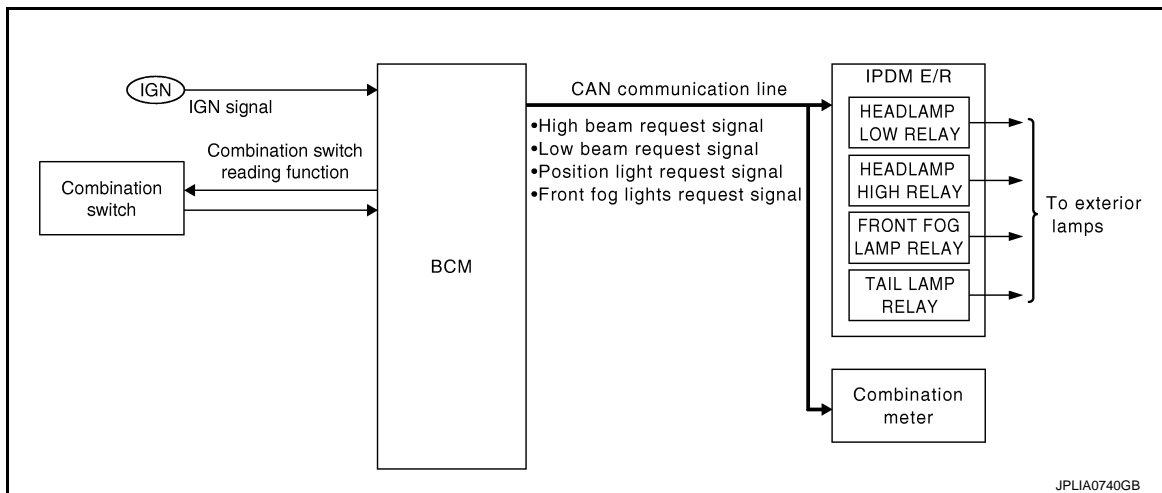
System Diagram

INFOID:000000009945122

WITH INTELLIGENT KEY



WITHOUT INTELLIGENT KEY



System Description

INFOID:000000009945123

OUTLINE

- Exterior lamp battery saver system is controlled by each function of BCM and IPDM E/R.

Control by BCM

- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

Control by IPDM E/R

- Relay control function
 - BCM turns the exterior lamp* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamp ON.
- *: Headlamp (LO/HI), parking (front side marker) lamp, tail lamp, license plate lamp, rear side marker lamp and front fog lamp

EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 45 seconds after the ignition switch is turned from ON → OFF with the exterior lamps ON.

NOTE:

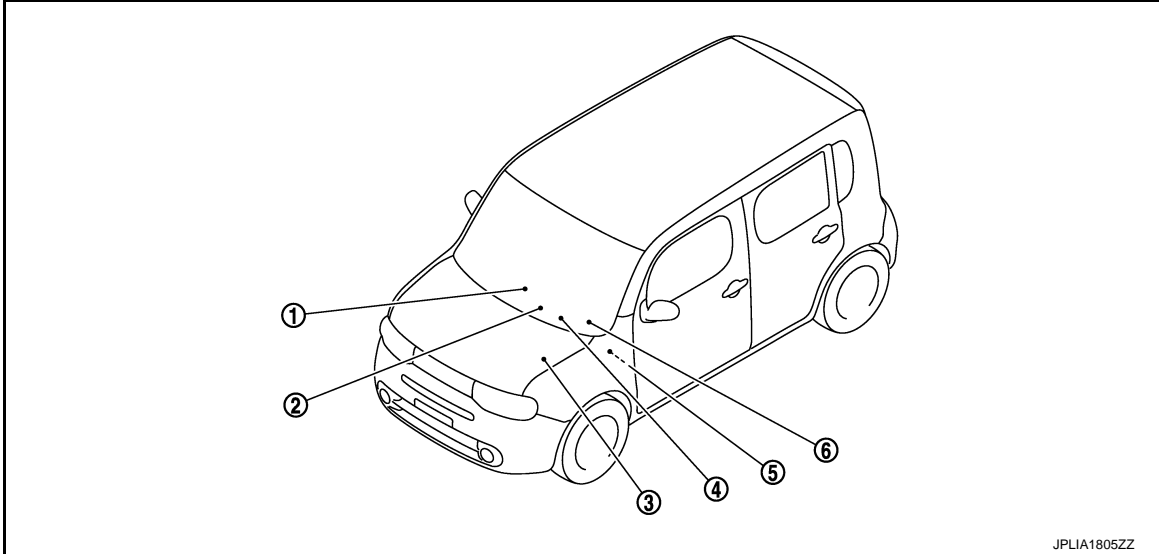
EXTERIOR LAMP BATTERY SAVER SYSTEM

< SYSTEM DESCRIPTION >

- Headlamp control function turns the exterior lamps ON normally when the ignition switch is turned ACC or the engine started (both before and after the exterior lamp battery saver is turned OFF).
- The timer starts at the time that the lighting switch is turned from OFF → 1ST or 2ND with the exterior lamp OFF.

Component Parts Location

INFOID:000000009945124



- | | | |
|--|---|---|
| 1. Push switch (With Intelligent Key) | 2. Key switch (Without Intelligent Key) | 3. IPDM E/R Refer to PCS-5, "Component Parts Location" (with Intelligent Key) or PCS-36, "Component Parts Location" (without Intelligent Key). |
| 4. Combination meter | 5. BCM Refer to BCS-10, "Component Parts Location" (with Intelligent Key) or BCS-95, "Component Parts Location" (without Intelligent Key). | 6. Combination switch |

Component Description

INFOID:000000009945125

| Part | Description |
|---|--|
| BCM | <ul style="list-style-type: none"> • Detects each switch condition by the combination switch reading function. • Activates the battery saver to turn the exterior lamps OFF according to the vehicle condition. - Requests each relay OFF to IPDM E/R (with CAN communication). |
| IPDM E/R | Controls the integrated relay according to the request from BCM (with CAN communication). |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram" (with Intelligent Key) or BCS-96, "System Diagram" (without Intelligent Key). |

EXL

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000010249349

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Diagnosis mode | Function Description |
|--------------------------|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

| System | Sub system selection item | Diagnosis mode | | |
|---|-----------------------------|----------------|--------------|-------------|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp timer | INT LAMP | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | × | × | × |
| Automatic air conditioner | AIR CONDITONER | | × | |
| <ul style="list-style-type: none"> Intelligent Key system Engine start system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| Body control system | BCM | × | | |
| NVIS - NATS | IMMU | × | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door | TRUNK | | × | |
| Vehicle security system | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | | × | |
| Signal buffer system | SIGNAL BUFFER | | × | × |
| TPMS | TPMS (AIR PRESSURE MONITOR) | × | × | × |

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| CONSULT screen item | Indication/Unit | Description | | |
|---------------------|--|--|--|---|
| Vehicle Speed | km/h | Vehicle speed of the moment a particular DTC is detected | | A |
| Odo/Trip Meter | km | Total mileage (Odometer value) of the moment a particular DTC is detected | | |
| Vehicle Condition | SLEEP>LOCK | Power position status of the moment a particular DTC is detected | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*) | B |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".) | C |
| | LOCK>ACC | | While turning power supply position from "LOCK" to "ACC" | |
| | ACC>ON | | While turning power supply position from "ACC" to "IGN" | D |
| | RUN>ACC | | While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.) | |
| | CRANK>RUN | | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it) | E |
| | RUN>URGENT | | While turning power supply position from "RUN" to "ACC" (Emergency stop operation) | F |
| | ACC>OFF | | While turning power supply position from "ACC" to "OFF" | |
| | OFF>LOCK | | While turning power supply position from "OFF" to "LOCK"* | G |
| | OFF>ACC | | While turning power supply position from "OFF" to "ACC" | |
| | ON>CRANK | | While turning power supply position from "IGN" to "CRANKING" | |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode | H |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is "LOCK"*) to low power consumption mode | I |
| | LOCK | | Power supply position is "LOCK"* | |
| | OFF | | Power supply position is "OFF" (Ignition switch OFF) | J |
| | ACC | | Power supply position is "ACC" (Ignition switch ACC) | |
| | ON | | Power supply position is "IGN" (Ignition switch ON with engine stopped) | K |
| | ENGINE RUN | | Power supply position is "RUN" (Ignition switch ON with engine running) | |
| CRANKING | Power supply position is "CRANKING" (At engine cranking) | EXL | | |
| IGN Counter | 0 - 39 | The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. | | M |

NOTE:

*: Power position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (CVT models), and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:000000009945127

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Service item | Setting item | Setting |
|------------------------|--------------|---|
| CUSTOM A/LIGHT SETTING | MODE 1* | Normal |
| | MODE 2 | More sensitive setting than normal setting (Turns ON earlier than normal operation.) |
| | MODE 3 | More sensitive setting than MODE 2 (Turns ON earlier than MODE 2.) |
| | MODE 4 | Without twilight ON custom & less sensitive setting than normal setting (Turns ON later than normal operation.) |
| BATTERY SAVER SET | On* | With the exterior lamp battery saver function |
| | Off | Without the exterior lamp battery saver function |
| ILL DELAY SET | MODE 1* | 45 sec. |
| | MODE 2 | Without the function |
| | MODE 3 | 30 sec. |
| | MODE 4 | 60 sec. |
| | MODE 5 | 90 sec. |
| | MODE 6 | 120 sec. |
| | MODE 7 | 150 sec. |
| | MODE 8 | 180 sec. |
| | | Sets delay timer function timer operation time. (All doors closed) |
| AUTO LIGHT LOGIC SET | MODE 1* | With twilight ON custom & with wiper INT, LO and HI |
| | MODE 2 | With twilight ON custom & with wiper LO and HI |
| | MODE 3 | With twilight ON custom & without |
| | MODE 4 | Without twilight ON custom & with wiper INT, LO and HI |
| | MODE 5 | Without twilight ON custom & with wiper LO and HI |
| | MODE 6 | Without twilight ON custom & without |

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item [Unit] | Description |
|--|--|
| PUSH SW [On/Off] | Indicates [On/Off] condition of push-button ignition switch |
| ENGINE STATE [Stop/Stall/Crank/Run] | Indicates [Stop/Stall/Crank/Run] condition of engine states |
| VEH SPEED 1 [km/h] | Display the vehicle speed signal received from combination meter by numerical value [Km/h] |

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description | |
|----------------------------|---|-----|
| TURN SIGNAL R [On/Off] | Each switch status that BCM judges from the combination switch reading function | A |
| TURN SIGNAL L [On/Off] | | B |
| TAIL LAMP SW [On/Off] | | C |
| HI BEAM SW [On/Off] | | D |
| HEAD LAMP SW1 [On/Off] | | E |
| HEAD LAMP SW2 [On/Off] | | F |
| PASSING SW [On/Off] | | G |
| AUTO LIGHT SW [On/Off] | | H |
| FR FOG SW* [On/Off] | | I |
| DOOR SW-DR [On/Off] | Indicated [On/Off] condition of front door switch (driver side) | J |
| DOOR SW-AS [On/Off] | Indicated [On/Off] condition of front door switch (passenger side) | K |
| DOOR SW-RR [On/Off] | Indicated [On/Off] condition of rear door switch RH | |
| DOOR SW- RL [On/Off] | Indicated [On/Off] condition of rear door switch LH | |
| DOOR SW-BK [On/Off] | Indicated [On/Off] condition of back door switch | |
| OPTI SEN (DTCT) [V] | The value of outside brightness voltage input from the optical sensor | |
| OPTI SEN (FILT) [V] | The value of outside brightness voltage filtered by BCM | |
| OPTICAL SENSOR [On/Off] | NOTE: This item is displayed, but cannot be monitored | EXL |

*: For models without front fog lamp, this item is displayed, but cannot be monitored.

ACTIVE TEST

| Test item | Operation | Description | |
|-------------|-----------|---|---|
| TAIL LAMP | On | Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON. | N |
| | Off | Stops the tail lamp request signal transmission. | |
| HEAD LAMP | Hi | Transmits the high beam request signal with CAN communication to turn the headlamp (HI). | O |
| | Lo | Transmits the low beam request signal with CAN communication to turn the headlamp (LO). | P |
| | Off | Stops the high & low beam request signal transmission. | |
| FR FOG LAMP | On | Transmits the front fog lights request signal to IPDM E/R with CAN communication to turn the front fog lamp ON. | |
| | Off | Stops the front fog lights request signal transmission. | |

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|----------------|-----------|---|
| ILL DIM SIGNAL | On | NOTE: The item is displayed, but cannot be tested |
| | Off | |

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:000000009945128

WORK SUPPORT

| Service item | Setting item | Setting |
|--------------------|--------------|------------------------|
| HAZARD ANSWER BACK | Lock Only | With locking only |
| | Unlk Only | With unlocking only |
| | Lock/Unlk* | With locking/unlocking |
| | Off | Without the function |

Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or the key fob.

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item [Unit] | Description |
|---------------------------|--|
| REQ SW -DR [On/Off] | Indicated [On/Off] condition of door request switch (driver side) |
| REQ SW -AS [On/Off] | Indicated [On/Off] condition of door request switch (passenger side) |
| PUSH SW [On/Off] | Indicates [On/Off] condition of push-button ignition switch |
| TURN SIGNAL R [On/Off] | Each switch status that BCM detects from the combination switch reading function |
| TURN SIGNAL L [On/Off] | |
| HAZARD SW [On/Off] | The switch status input from the hazard switch |
| RKE-LOCK [On/Off] | Indicates [On/Off] condition of LOCK signal from Intelligent Key |
| RKE-UNLOCK [On/Off] | Indicates [On/Off] condition of UNLOCK signal from Intelligent Key |
| RKE-PANIC [On/Off] | Indicates [On/Off] condition of PANIC button of Intelligent Key |

ACTIVE TEST

| Test item | Operation | Description |
|-----------|-----------|--|
| FLASHER | RH | Outputs the voltage to turn the right side turn signal lamps ON. |
| | LH | Outputs the voltage to turn the left side turn signal lamps ON. |
| | Off | Stops the voltage to turn the turn signal lamps OFF. |

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000010249350

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Diagnosis mode | Function Description |
|--------------------------|---|
| Work Support | Changes the setting for each system function. |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. |
| Data Monitor | The BCM input/output signals are displayed. |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. |
| Ecu Identification | The BCM part number is displayed. |
| Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM. |

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

x: Applicable item

| System | Sub system selection item | Diagnosis mode | | |
|--------------------------------------|-----------------------------|----------------|--------------|-------------|
| | | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | x | x | x |
| Rear window defogger | REAR DEFOGGER | | x | x |
| Warning chime | BUZZER | | x | x |
| Interior room lamp control | INT LAMP | x | x | x |
| Remote keyless entry system | MULTI REMOTE ENT | x | x | x |
| Exterior lamp | HEAD LAMP | x | x | x |
| Wiper and washer | WIPER | x | x | x |
| Turn signal and hazard warning lamps | FLASHER | | x | x |
| Manual air conditioner | AIR CONDITONER | | x | x |
| Combination switch | COMB SW | | x | |
| Body control system | BCM | x | | |
| NVIS - NATS | IMMU | x | x | x |
| Interior room lamp battery saver | BATTERY SAVER | x | x | x |
| Back door | TRUNK | | x | |
| Vehicle security system | THEFT ALM | x | x | x |
| RAP system | RETAINED PWR | | x | x |
| Signal buffer system | SIGNAL BUFFER | | x | x |
| TPMS | TPMS (AIR PRESSURE MONITOR) | x | x | x |
| Panic alarm system | PANIC ALARM | | | x |

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000009945130

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Service item | Setting item | Setting |
|----------------------|--------------|--|
| BATTERY SAVER SET | On* | With the exterior lamp battery saver function |
| | Off | Without the exterior lamp battery saver function |
| ILL DELAY SET | MODE 1 | NOTE: This item is displayed, but cannot be used |
| | MODE 2 | |
| | MODE 3 | |
| | MODE 4 | |
| | MODE 5 | |
| | MODE 6 | |
| | MODE 7 | |
| | MODE 8 | |
| AUTO LIGHT LOGIC SET | MODE 1 | NOTE: This item is displayed, but cannot be used |
| | MODE 2 | |
| | MODE 3 | |
| | MODE 4 | |
| | MODE 5 | |
| | MODE 6 | |

*: Factory setting

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item [Unit] | Description |
|----------------------------|---|
| IGN ON SW [On/Off] | Indicated [On/Off] condition of ignition switch in ON position |
| ACC ON SW [On/Off] | Indicates [On/Off] condition of ignition switch in ACC position |
| HI BEAM SW [On/Off] | Each switch status that BCM judges from the combination switch reading function |
| HEAD LAMP SW 1 [On/Off] | |
| HEAD LAMP SW 2 [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| AUTO LIGHT SW* [On/Off] | |
| PASSING SW [On/Off] | |
| FR FOG SW* [On/Off] | |
| DOOR SW-DR [On/Off] | |
| DOOR SW-AS [On/Off] | Indicated [On/Off] condition of front door switch (passenger side) |
| DOOR SW-RR [On/Off] | Indicated [On/Off] condition of rear door switch RH |

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description |
|---------------------------|--|
| DOOR SW- RL [On/Off] | Indicated [On/Off] condition of rear door switch LH |
| BACK DOOR SW [On/Off] | Indicated [On/Off] condition of back door switch |
| TURN SIGNAL R [On/Off] | Each switch status that BCM judges from the combination switch reading function |
| TURN SIGNAL L [On/Off] | |
| KEY ON SW [On/Off] | Indicated [On/Off] condition of key switch |
| KEYLESS LOCK [On/Off] | Indicated [On/Off] condition of lock signal from key fob |
| PKB SW [On/Off] | The parking brake switch status received from combination meter with CAN communication |
| ENGINE RUN [On/Off] | The engine status received from ECM with CAN communication |
| VEHICLE SPEED [km/h] | Display the vehicle speed signal received from combination meter by numerical value [Km/h] |
| OPTI SEN (DTCT) [V] | NOTE: This item is displayed, but cannot be monitored |
| OPTI SEN (FILT) [V] | NOTE: This item is displayed, but cannot be monitored |

*: This item is displayed, but cannot be monitored.

ACTIVE TEST

| Test item | Operation | Description |
|----------------|-----------|--|
| TAIL LAMP | On | Transmits the position light request signal to IPDM E/R with CAN communication to turn the tail lamp ON. |
| | Off | Stops the tail lamp request signal transmission. |
| HEAD LAMP | Hi | Transmits the high beam request signal with CAN communication to turn the headlamp (HI). |
| | Lo | Transmits the low beam request signal with CAN communication to turn the headlamp (LO). |
| | Off | Stops the high & low beam request signal transmission. |
| FR FOG LAMP | On | NOTE: |
| | Off | This item is displayed, but cannot be tested |
| ILL DIM SIGNAL | On | NOTE: |
| | Off | This item is displayed, but cannot be tested |

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:000000009945131

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor item [Unit] | Description |
|---------------------------|--|
| IGN ON SW [On/Off] | Indicated [On/Off] condition of ignition switch in ON position |
| HAZARD SW [On/Off] | The switch status input from the hazard switch |
| TURN SIGNAL R [On/Off] | Each switch status that BCM detects from the combination switch reading function |
| TURN SIGNAL L [On/Off] | |

ACTIVE TEST

| Test item | Operation | Description |
|-----------|-----------|--|
| FLASHER | RH | Outputs the voltage to turn the right side turn signal lamps ON. |
| | LH | Outputs the voltage to turn the left side turn signal lamps ON. |
| | Off | Stops the voltage to turn the turn signal lamps OFF. |

DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

Diagnosis Description

INFOID:000000010249363

AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- Side marker lamp
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan

Operation Procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)
NOTE:
When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
2. Turn the ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.
CAUTION:
Close passenger door.
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
5. The oil pressure warning lamp starts blinking when the auto active test starts.
6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway through test, turn the ignition switch OFF.

CAUTION:

- **If auto active test mode cannot be actuated, check door switch system. Refer to [DLK-55](#), "[Component Function Check](#)".**
- **Do not start the engine.**

Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following 6 steps are repeated 3 times.

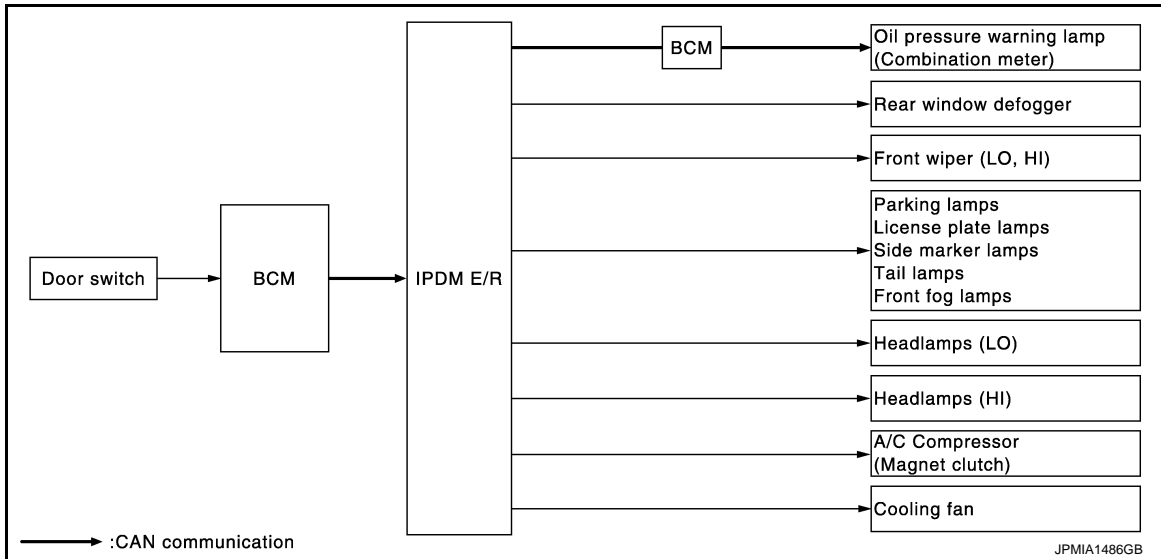
| Operation sequence | Inspection location | Operation |
|--------------------|--|--|
| A | Oil pressure warning lamp | Blinks continuously during operation of auto active test |
| 1 | Rear window defogger | 10 seconds |
| 2 | Front wiper | LO for 5 seconds → HI for 5 seconds |
| 3 | <ul style="list-style-type: none">• Parking lamps• Side marker lamps• License plate lamps• Tail lamps• Front fog lamps | 10 seconds |
| 4 | Headlamps | LO for 10 seconds → HI ON ↔ OFF 5 times |
| 5 | A/C compressor (magnet clutch) | ON ↔ OFF 5 times |
| 6 | Cooling fan | LO for 5 seconds → HI for 5 seconds |

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DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

| Symptom | Inspection contents | Possible cause |
|--|---|---|
| Rear window defogger does not operate | Perform auto active test. Does the rear window defogger operate? | YES BCM signal input circuit |
| | | NO <ul style="list-style-type: none"> • Rear window defogger • Rear window defogger ground circuit • Harness or connector between IPDM E/R and rear window defogger • IPDM E/R |
| Any of the following components do not operate <ul style="list-style-type: none"> • Parking lamps • Side marker lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps (HI, LO) • Front wiper (HI, LO) | Perform auto active test. Does the applicable system operate? | YES BCM signal input circuit |
| | | NO <ul style="list-style-type: none"> • Lamp or motor • Lamp or motor ground circuit • Harness or connector between IPDM E/R and applicable system • IPDM E/R |
| A/C compressor does not operate | Perform auto active test. Does the magnet clutch operate? | YES <ul style="list-style-type: none"> • A/C amp. signal input circuit • CAN communication signal between A/C amp. and ECM • CAN communication signal between ECM and IPDM E/R |
| | | NO <ul style="list-style-type: none"> • Magnet clutch • Harness or connector between IPDM E/R and magnet clutch • IPDM E/R |

DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Symptom | Inspection contents | | Possible cause |
|--|--|-----|--|
| Oil pressure warning lamp does not operate | Perform auto active test. Does the oil pressure warning lamp blink? | YES | <ul style="list-style-type: none"> • Harness or connector between IPDM E/R and oil pressure switch • Oil pressure switch • IPDM E/R |
| | | NO | <ul style="list-style-type: none"> • CAN communication signal between IPDM E/R and BCM • CAN communication signal between BCM and combination meter • Combination meter |
| Cooling fan does not operate | Perform auto active test. Does the cooling fan operate? | YES | <ul style="list-style-type: none"> • ECM signal input circuit • CAN communication signal between ECM and IPDM E/R |
| | | NO | <ul style="list-style-type: none"> • Cooling fan motor • Harness or connector between IPDM E/R and cooling fan motor • IPDM E/R |

CONSULT Function (IPDM E/R)

INFOID:000000010249364

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

| Diagnosis mode | Description |
|--------------------------|---|
| Ecu Identification | Allows confirmation of IPDM E/R part number. |
| Self Diagnostic Result | Displays the diagnosis results judged by IPDM E/R. |
| Data Monitor | Displays the real-time input/output data from IPDM E/R input/output data. |
| Active Test | IPDM E/R can provide a drive signal to electronic components to check their operations. |
| CAN Diag Support Monitor | The results of transmit/receive diagnosis of CAN communication can be read. |

SELF DIAGNOSTIC RESULT

Refer to [EXL-166, "WITH INTELLIGENT KEY : DTC Index"](#).

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item [Unit] | MAIN SIGNALS | Description |
|-------------------------|--------------|---|
| MOTOR FAN REQ [1/2/3/4] | × | Displays the value of the cooling fan speed request signal received from ECM via CAN communication. |
| AC COMP REQ [Off/On] | × | Displays the status of the A/C compressor request signal received from ECM via CAN communication. |
| TAIL&CLR REQ [Off/On] | × | Displays the status of the position light request signal received from BCM via CAN communication. |
| HL LO REQ [Off/On] | × | Displays the status of the low beam request signal received from BCM via CAN communication. |
| HL HI REQ [Off/On] | × | Displays the status of the high beam request signal received from BCM via CAN communication. |
| FR FOG REQ [Off/On] | × | Displays the status of the front fog light request signal received from BCM via CAN communication. |

DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | MAIN SIG- NALS | Description |
|---|-------------------|--|
| FR WIP REQ [Stop/1LOW/Low/Hi] | × | Displays the status of the front wiper request signal received from BCM via CAN communication. |
| WIP AUTO STOP [STOP P/ACT P] | × | Displays the status of the front wiper auto stop signal judged by IPDM E/R. |
| WIP PROT [Off/BLOCK] | × | Displays the status of the front wiper fail-safe operation judged by IPDM E/R. |
| IGN RLY1 -REQ [Off/On] | | Displays the status of the ignition switch ON signal received from BCM via CAN communication. |
| IGN RLY [Off/On] | × | Displays the status of the ignition relay judged by IPDM E/R. |
| PUSH SW [Off/On] | | Displays the status of the push-button ignition switch judged by IPDM E/R. |
| INTER/NP SW [Off/On] | | Displays the status of the clutch interlock switch (M/T models) or shift position (CVT models) judged by IPDM E/R. |
| ST RLY CONT [Off/On] | | Displays the status of the starter relay status signal received from BCM via CAN communication. |
| IHBT RLY -REQ [Off/On] | | Displays the status of the starter control relay signal received from BCM via CAN communication. |
| ST/INHI RLY [Off/ ST ON/INHI ON/UNKWN] | | Displays the status of the starter relay and starter control relay judged by IPDM E/R. |
| DETENT SW [Off/On] | | Displays the status of the CVT shift selector (detention switch) judged by IPDM E/R. |
| S/L RLY -REQ [Off/On] | | NOTE: The item is indicated, but not monitored. |
| S/L STATE [LOCK/UNLOCK/UNKWN] | | NOTE: The item is indicated, but not monitored. |
| DTRL REQ [Off/On] | | NOTE: The item is indicated, but not monitored. |
| OIL P SW [Open/Close] | | Displays the status of the oil pressure switch judged by IPDM E/R. |
| HOOD SW [Off/On] | | NOTE: The item is indicated, but not monitored. |
| THFT HRN REQ [Off/On] | | Displays the status of the theft warning horn request signal received from BCM via CAN communication. |
| HORN CHIRP [Off/On] | | Displays the status of the horn reminder signal received from BCM via CAN communication. |

ACTIVE TEST

| Test item | Operation | Description |
|-------------|-----------|--|
| HORN | On | Operates horn relay for 20 ms. |
| FRONT WIPER | Off | OFF |
| | Lo | Operates the front wiper relay. |
| | Hi | Operates the front wiper relay and front wiper high relay. |
| MOTOR FAN | 1 | OFF |
| | 2 | Operates the cooling fan relay (LO operation). |
| | 3 | Operates the cooling fan relay (HI operation). |
| | 4 | |

DIAGNOSIS SYSTEM (IPDM E/R) (WITH INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|----------------|-----------|---|
| EXTERNAL LAMPS | Off | OFF |
| | TAIL | Operates the tail lamp relay. |
| | Lo | Operates the headlamp low relay. |
| | Hi | Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals. |
| | Fog | Operates the front fog lamp relay. |

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DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)

Diagnosis Description

INFOID:000000010249365

AUTO ACTIVE TEST

Description

In auto active test mode, the IPDM E/R sends a drive signal to the following systems to check their operation.

- Oil pressure warning lamp
- Rear window defogger
- Front wiper (LO, HI)
- Parking lamps
- Side marker lamp
- License plate lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan

Operation Procedure

1. Close the hood and lift the wiper arms from the windshield. (Prevent windshield damage due to wiper operation)

NOTE:

When auto active test is performed with hood opened, sprinkle water on windshield beforehand.

2. Turn the ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch 10 times. Then turn the ignition switch OFF.

CAUTION:

Close passenger door.

4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
5. The oil pressure warning lamp starts blinking when the auto active test starts.
6. After a series of the following operations is repeated 3 times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway through test, turn the ignition switch OFF.

CAUTION:

- **If auto active test mode cannot be actuated, check door switch system. Refer to [DLK-55, "Component Function Check"](#).**
- **Do not start the engine.**

Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following 6 steps are repeated 3 times.

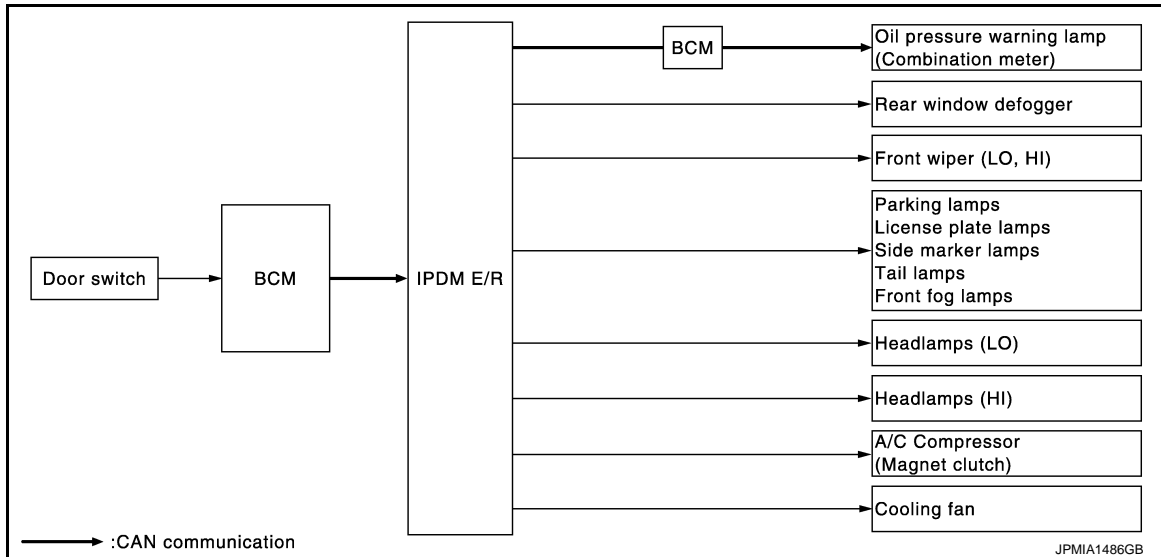
| Operation sequence | Inspection location | Operation |
|--------------------|--|--|
| A | Oil pressure warning lamp | Blinks continuously during operation of auto active test |
| 1 | Rear window defogger | 10 seconds |
| 2 | Front wiper | LO for 5 seconds → HI for 5 seconds |
| 3 | <ul style="list-style-type: none">• Parking lamps• Side marker lamps• License plate lamps• Tail lamps• Front fog lamps | 10 seconds |
| 4 | Headlamps | LO for 10 seconds → HI ON ↔ OFF 5 times |

DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Operation sequence | Inspection location | Operation |
|--------------------|--------------------------------|-------------------------------------|
| 5 | A/C compressor (magnet clutch) | ON ⇔ OFF 5 times |
| 6 | Cooling fan | LO for 5 seconds → HI for 5 seconds |

Concept of auto active test



- IPDM E/R starts the auto active test with the door switch signals transmitted by BCM via CAN communication. Therefore, the CAN communication line between IPDM E/R and BCM is considered normal if the auto active test starts successfully.
- The auto active test facilitates troubleshooting if any systems controlled by IPDM E/R cannot be operated.

Diagnosis chart in auto active test mode

| Symptom | Inspection contents | Possible cause |
|--|---|---|
| Rear window defogger does not operate | Perform auto active test. Does the rear window defogger operate? | YES BCM signal input circuit |
| | | NO <ul style="list-style-type: none"> • Rear window defogger • Rear window defogger ground circuit • Harness or connector between IPDM E/R and rear window defogger • IPDM E/R |
| Any of the following components do not operate <ul style="list-style-type: none"> • Parking lamps • Side marker lamps • License plate lamps • Tail lamps • Front fog lamps • Headlamps (HI, LO) • Front wiper (HI, LO) | Perform auto active test. Does the applicable system operate? | YES BCM signal input circuit |
| | | NO <ul style="list-style-type: none"> • Lamp or motor • Lamp or motor ground circuit • Harness or connector between IPDM E/R and applicable system • IPDM E/R |
| A/C compressor does not operate | Perform auto active test. Does the magnet clutch operate? | YES <ul style="list-style-type: none"> • A/C amp. signal input circuit • CAN communication signal between A/C amp. and ECM • CAN communication signal between ECM and IPDM E/R |
| | | NO <ul style="list-style-type: none"> • Magnet clutch • Harness or connector between IPDM E/R and magnet clutch • IPDM E/R |

DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Symptom | Inspection contents | Possible cause |
|--|--|---|
| Oil pressure warning lamp does not operate | Perform auto active test. Does the oil pressure warning lamp blink? | YES <ul style="list-style-type: none"> • Harness or connector between IPDM E/R and oil pressure switch • Oil pressure switch • IPDM E/R |
| | | NO <ul style="list-style-type: none"> • CAN communication signal between IPDM E/R and BCM • CAN communication signal between BCM and combination meter • Combination meter |
| Cooling fan does not operate | Perform auto active test. Does the cooling fan operate? | YES <ul style="list-style-type: none"> • ECM signal input circuit • CAN communication signal between ECM and IPDM E/R |
| | | NO <ul style="list-style-type: none"> • Cooling fan motor • Harness or connector between IPDM E/R and cooling fan motor • IPDM E/R |

CONSULT Function (IPDM E/R)

INFOID:000000010249366

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with IPDM E/R.

| Diagnosis mode | Description |
|--------------------------|---|
| Ecu Identification | Allows confirmation of IPDM E/R part number. |
| Self Diagnostic Result | Displays the diagnosis results judged by IPDM E/R. |
| Data Monitor | Displays the real-time input/output data from IPDM E/R input/output data. |
| Active Test | IPDM E/R can provide a drive signal to electronic components to check their operations. |
| CAN Diag Support Monitor | The results of transmit/receive diagnosis of CAN communication can be read. |

SELF DIAGNOSTIC RESULT

Refer to [EXL-177, "WITHOUT INTELLIGENT KEY : DTC Index"](#).

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item [Unit] | MAIN SIGNALS | Description |
|----------------------------|--------------|---|
| MOTOR FAN REQ [1/2/3/4] | × | Displays the value of the cooling fan speed request signal received from ECM via CAN communication. |
| AC COMP REQ [Off/On] | × | Displays the status of the A/C compressor request signal received from ECM via CAN communication. |
| TAIL&CLR REQ [Off/On] | × | Displays the status of the position light request signal received from BCM via CAN communication. |
| HL LO REQ [Off/On] | × | Displays the status of the low beam request signal received from BCM via CAN communication. |
| HL HI REQ [Off/On] | × | Displays the status of the high beam request signal received from BCM via CAN communication. |
| FR FOG REQ [Off/On] | × | Displays the status of the front fog light request signal received from BCM via CAN communication. |

DIAGNOSIS SYSTEM (IPDM E/R) (WITHOUT INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

| Monitor Item [Unit] | MAIN SIG- NALS | Description |
|----------------------------------|-------------------|---|
| FR WIP REQ [Stop/1LOW/Low/Hi] | × | Displays the status of the front wiper request signal received from BCM via CAN communication. |
| WIP AUTO STOP [STOP P/ACT P] | × | Displays the status of the front wiper auto stop signal judged by IPDM E/R. |
| WIP PROT [Off/BLOCK] | × | Displays the status of the front wiper fail-safe operation judged by IPDM E/R. |
| IGN RLY [Off/On] | × | Displays the status of the ignition relay judged by IPDM E/R. |
| INTER/NP SW [Off/On] | | Displays the status of the shift position (CVT models) judged by IPDM E/R. |
| ST RLY-REQ [Off/On] | | Displays the status of the starter relay status signal received from BCM via CAN communication. |
| DTRL REQ [Off/On] | | NOTE: The item is indicated, but not monitored. |
| OIL P SW [Open/Close] | | Displays the status of the oil pressure switch judged by IPDM E/R. |
| HOOD SW [Off/On] | | NOTE: The item is indicated, but not monitored. |
| THFT HRN REQ [Off/On] | | Displays the status of the theft warning horn request signal received from BCM via CAN communication. |
| HORN CHIRP [Off/On] | | Displays the status of the horn reminder signal received from BCM via CAN communication. |

ACTIVE TEST

| Test item | Operation | Description |
|----------------|-----------|---|
| HORN | On | Operates horn relay for 20 ms. |
| FRONT WIPER | Off | OFF |
| | Lo | Operates the front wiper relay. |
| | Hi | Operates the front wiper relay and front wiper high relay. |
| MOTOR FAN | 1 | OFF |
| | 2 | Operates the cooling fan relay (LO operation). |
| | 3 | Operates the cooling fan relay (HI operation). |
| | 4 | |
| EXTERNAL LAMPS | Off | OFF |
| | TAIL | Operates the tail lamp relay. |
| | Lo | Operates the headlamp low relay. |
| | Hi | Operates the headlamp low relay and ON/OFF the headlamp high relay at 1 second intervals. |
| | Fog | Operates the front fog lamp relay. |

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000010249351

1. CHECK FUSE AND FUSIBLE LINK

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

| Signal name | Fuse and fusible link No. |
|----------------------|---------------------------|
| Battery power supply | G |
| | 8 |

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

| Terminals | | Voltage (Approx.) |
|-----------|----------|-------------------------------|
| (+) | (-) | |
| BCM | | Ground Battery voltage |
| Connector | Terminal | |
| M70 | 70 | |
| | 57 | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

| BCM | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| M70 | 67 | | Existed |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000010249352

1. CHECK FUSES AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Signal name | Fuses and fusible link No. |
|-----------------------|----------------------------|
| Battery power supply | 8 |
| | G |
| ACC power supply | 20 |
| Ignition power supply | 2 |

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

| Terminals | | (-) | Ignition switch position | | |
|-----------|----------|-------------|--------------------------|-----------------|-----------------|
| (+) | | | OFF | ACC | ON |
| BCM | | Ground | | | |
| Connector | Terminal | | | | |
| 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 harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

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

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

IPDM E/R (WITH INTELLIGENT KEY SYSTEM)

IPDM E/R (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000010249375

1.CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

| Signal name | Fuses and fusible link No. |
|----------------------|----------------------------|
| Battery power supply | C |
| | D |
| | J |

Is the fuse fusing?

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- 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 IPDM E/R connector.
3. Check voltage between IPDM E/R harness connector and the ground.

| Terminals | | (-) | Voltage (Approx.) |
|--------------|----------|--------|-------------------|
| (+) IPDM E/R | | | |
| Connector | Terminal | Ground | Battery voltage |
| E9 | 1 | | |
| | 2 | | |
| E10 | 8 | | |

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between IPDM E/R harness connectors and the ground.

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| E11 | 9 | | Existed |
| E12 | 19 | | |

Does continuity exist?

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

IPDM E/R (WITHOUT INTELLIGENT KEY SYSTEM)

IPDM E/R (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:000000010249376

1.CHECK FUSES AND FUSIBLE LINK

Check that the following IPDM E/R fuses or fusible links are not blown.

| Signal name | Fuses and fusible link No. |
|----------------------|----------------------------|
| Battery power supply | C |
| | D |
| | J |

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 IPDM E/R connector.
3. Check voltage between IPDM E/R harness connector and the ground.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| Terminals | | (-) | Voltage (Approx.) |
|-----------|----------|--------|----------------------|
| (+) | | | |
| IPDM E/R | | Ground | Battery voltage |
| Connector | Terminal | | |
| E9 | 1 | | |
| | 2 | | |
| E10 | 8 | | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK IGNITION POWER SUPPLY CIRCUIT

1. Turn the ignition switch ON.
2. Check voltage between IPDM E/R harness connector and the ground.

| Terminals | | (-) | Voltage (Approx.) |
|-----------|----------|--------|----------------------|
| (+) | | | |
| IPDM E/R | | Ground | Battery voltage |
| Connector | Terminal | | |
| E12 | 18 | | |

Is the measurement value normal?

YES >> GO TO 4.

NO >> Repair the harness or connector.

4. CHECK GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Check continuity between IPDM E/R harness connectors and the ground.

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| E11 | 9 | | Existed |
| E12 | 19 | | |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair the harness or connector.

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HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (HI) CIRCUIT

Component Function Check

INFOID:000000009945140

1. CHECK HEADLAMP (HI) OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the headlamp switches to the high beam.

CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the headlamp (HI) is turned ON.

Hi : Headlamp (HI) ON

Off : Headlamp (HI) OFF

NOTE:

ON/OFF is repeated 1 second each.

Is the headlamp (HI) turned ON?

YES >> Headlamp (HI) circuit is normal.

NO >> Refer to [EXL-42, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945141

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

CONSULT ACTIVE TEST

1. Turn the ignition switch OFF.
2. Disconnect the headlamp connector.
3. Turn the ignition switch ON.
4. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
5. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|-----------|----------|-----|----------------|-------------------|
| (+) | (-) | | | |
| IPDM E/R | | | EXTERNAL LAMPS | Battery voltage |
| Connector | Terminal | | | |
| RH | E15 | 49 | Hi | Battery voltage |
| | | 50 | Off | 0 V |
| LH | E15 | | Hi | Battery voltage |
| | | Off | 0 V | |

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK HEADLAMP (HI) OPEN CIRCUIT

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

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| IPDM E/R | | Headlamp | | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | E15 | 49 | E45 | Existed |
| LH | | 50 | E26 | |

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

3.CHECK HEADLAMP (HI) FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|------------------|----------|----------|----------|
| Headlamp HI (RH) | IPDM E/R | #51 | 10 A |
| Headlamp HI (LH) | IPDM E/R | #52 | 10 A |

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4.CHECK HEADLAMP HIGH (HI) SHORT CIRCUIT

1. Disconnect the IPDM E/R connector.
2. Check continuity between the IPDM E/R harness connector terminal and the ground.

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| RH | E15 | 49 | Not existed |
| LH | | | |

Does continuity exist?

YES >> Repair the harnesses or connectors. And then replace the fuse.

NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

5.CHECK HEADLAMP (HI) GROUND OPEN CIRCUIT

Check continuity between the headlamp harness connector and the ground.

| Headlamp | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| RH | E45 | 2 | Existed |
| LH | E26 | | |

Does continuity exist?

YES >> Replace the headlamp (HI) bulb.

NO >> Repair the harnesses or connectors.

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HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP (LO) CIRCUIT

Component Function Check

INFOID:000000009945142

1. CHECK HEADLAMP (LO) OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the headlamp is turned ON.

Ⓟ CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the headlamp (LO) is turned ON.

Lo : Headlamp (LO) ON
Off : Headlamp (LO) OFF

Is the headlamp (LO) turned ON?

- YES >> Headlamp (LO) is normal.
 NO >> Refer to [EXL-44, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945144

1. CHECK HEADLAMP (LO) OUTPUT VOLTAGE

Ⓟ CONSULT ACTIVE TEST

1. Turn the ignition switch OFF.
2. Disconnect the headlamp connector.
3. Turn the ignition switch ON.
4. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
5. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) | | |
|-----------|----------|----|----------------|-------------------|----|-----------------|
| (+) | (-) | | | | | |
| IPDM E/R | | | EXTERNAL LAMPS | Battery voltage | | |
| Connector | Terminal | | | | | |
| RH | E15 | 52 | | | Lo | 0 V |
| LH | | 51 | | | Lo | Battery voltage |
| | | | Off | 0 V | | |

Is the measurement value normal?

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

2. CHECK HEADLAMP (LO) OPEN CIRCUIT

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

| IPDM E/R | | Headlamp | | Continuity |
|-----------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | E15 | E45 | 3 | Existed |
| LH | | 51 | E26 | |

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Does continuity exist?

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

3.CHECK HEADLAMP (LO) FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|------------------|----------|----------|----------|
| Headlamp LO (RH) | IPDM E/R | #54 | 15 A |
| Headlamp LO (LH) | IPDM E/R | #53 | 15 A |

Is the fuse fusing?

- YES >> GO TO 4.
NO >> Replace IPDM E/R.

4.CHECK HEADLAMP (LO) SHORT CIRCUIT

1. Disconnect the IPDM E/R connector.
2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| RH | E15 | 52 | Not existed |
| LH | | 51 | |

Does continuity exist?

- YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

5.CHECK HEADLAMP (LO) GROUND OPEN CIRCUIT

Check continuity between the headlamp harness connector and the ground.

| Headlamp | | Ground | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal | | |
| RH | E45 | 2 | Existed |
| LH | E26 | 2 | |

Does continuity exist?

- YES >> Replace the headlamp (LO) bulb. (Bulb socket is abnormally.)
NO >> Repair the harnesses or connectors.

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FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP CIRCUIT

Component Function Check

INFOID:000000009945145

1.CHECK FRONT FOG LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#).
2. Check that the front fog lamp is turned ON.

CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the front fog lamp is turned ON.

Fog : Front fog lamp ON
Off : Front fog lamp OFF

Is the front fog lamp turned ON?

- YES >> Front fog lamp circuit is normal.
NO >> Refer to [EXL-46, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945146

1.CHECK FRONT FOG LAMP FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuse is not fusing.

| Unit | Location | Fuse No. | Capacity |
|----------------|----------|----------|----------|
| Front fog lamp | IPDM E/R | #50 | 15 A |

Is the fuse fusing?

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

2.CHECK FRONT FOG LAMP SHORT CIRCUIT

1. Disconnect IPDM E/R connector and the front fog connector.
2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | | Ground | Continuity |
|-----------|----------|----|--------|-------------|
| Connector | Terminal | | | |
| RH | E12 | 21 | | Not existed |
| LH | | 22 | | |

Does continuity exist?

- YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if the fuse is fusing again.)

3.CHECK FRONT FOG LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

- YES >> GO TO 4.
NO >> Replace the bulb.

4.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

1. Disconnect the front fog lamp connector.
2. Turn the ignition switch ON.
3. Select "EXTERNAL LAMPS" of IPDM E/R active test item.

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

- With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|-----------|----------|-----|----------------|-------------------|
| (+) | | (-) | | |
| IPDM E/R | | | EXTERNAL LAMPS | Battery voltage |
| Connector | Terminal | | | |
| RH | E12 | 21 | Fog | 0 V |
| LH | | 22 | Fog | 0 V |
| | | | Off | Battery voltage |
| | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 5.

NO >> Replace IPDM E/R.

5.CHECK FRONT FOG LAMP OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the front fog lamp harness connector.

| IPDM E/R | | | Front fog lamp | | Continuity |
|-----------|----------|----|----------------|----------|------------|
| Connector | Terminal | | Connector | Terminal | |
| RH | E12 | 21 | E48 | 1 | Existed |
| LH | | 22 | E30 | 1 | |

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

6.CHECK FRONT FOG LAMP GROUND CIRCUIT OPEN CIRCUIT

Check continuity between the front fog lamp harness connector and the ground.

| Front fog lamp | | | Ground | Continuity |
|----------------|----------|---|--------|------------|
| Connector | Terminal | | | |
| RH | E48 | 2 | Ground | Existed |
| LH | E30 | 2 | | |

Does continuity exist?

YES >> Replace the front fog lamp.

NO >> Repair the harnesses or connectors.

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PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

PARKING LAMP CIRCUIT

Component Function Check

INFOID:000000009945151

1. CHECK PARKING LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the parking lamp is turned ON.

CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the parking lamp is turned ON.

TAIL : Parking lamp ON
Off : Parking lamp OFF

Is the parking lamp turned ON?

- YES >> Parking lamp circuit is normal.
NO >> Refer to [EXL-48, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945152

1. CHECK PARKING LAMP FUSE

1. Turn the ignition switch OFF.
2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|--|----------|----------|----------|
| <ul style="list-style-type: none">• Parking lamp• License plate lamp• Side marker lamp• Tail lamp | IPDM E/R | #47 | 10 A |

Is the fuse fusing?

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

2. CHECK PARKING LAMP SHORT CIRCUIT

1. Disconnect IPDM E/R connector and the parking lamp connector.
2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| RH | E14 | 37 | Not existed |
| LH | | 36 | |

Does continuity exist?

- YES >> Repair the harnesses or connectors. And then replace the fuse.
NO >> Replace the fuse. (Replace IPDM E/R if fusing is found again.)

3. CHECK PARKING LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

- YES >> GO TO 4.
NO >> Replace the bulb.

4. CHECK PARKING LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

1. Disconnect the parking lamp connector.
2. Turn the ignition switch ON.
3. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
4. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|-----------|----------|-----|----------------|-------------------|
| (+) | | (-) | | |
| IPDM E/R | | | EXTERNAL LAMPS | Battery voltage |
| Connector | Terminal | | | |
| RH | E14 | 37 | TAIL | 0 V |
| LH | | 36 | OFF | |

Is the measurement value normal?

- YES >> GO TO 5.
 NO >> Replace IPDM E/R.

5. CHECK PARKING LAMP OPEN CIRCUIT

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

| IPDM E/R | | | Parking lamp | | Continuity |
|-----------|----------|----|--------------|----------|------------|
| Connector | Terminal | | Connector | Terminal | |
| RH | E14 | 37 | E43 | 1 | Existed |
| LH | | 36 | E24 | 1 | |

Does continuity exist?

- YES >> GO TO 6.
 NO >> Repair the harnesses or connectors.

6. CHECK PARKING LAMP GROUND OPEN CIRCUIT

Check continuity between the parking lamp harness connector and the ground.

| Parking lamp | | | Ground | Continuity |
|--------------|----------|---|--------|------------|
| Connector | Terminal | | | |
| RH | E43 | 2 | Ground | Existed |
| LH | E24 | 2 | | |

Does continuity exist?

- YES >> Replace the front combination lamp.
 NO >> Repair the harnesses or connectors.

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TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL LAMP CIRCUIT

Description

INFOID:000000009945153

BCM performs the high flasher operation if any bulb or harness of the turn signal lamp circuit is open.

NOTE:

The turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:000000009945154

1. CHECK TURN SIGNAL LAMP

Ⓟ CONSULT ACTIVE TEST

1. Select "FLASHER" of BCM (FLASHER) active test item.
2. With operating the test items, check that the turn signal lamps blink.

LH : Turn signal lamps (LH) blink

RH : Turn signal lamps (RH) blink

Off : Turn signal lamps OFF

Does the turn signal lamps blink?

- YES >> Turn signal lamp circuit is normal.
NO >> Refer to [EXL-50, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945155

1. CHECK TURN SIGNAL LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

- YES >> GO TO 2.
NO >> Replace the bulb.

2. CHECK TURN SIGNAL LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect BCM connector.
3. Disconnect the front turn signal lamp connector, side turn signal lamp connector, or the rear combination lamp connector.
4. Check continuity between the BCM harness connector and the front turn signal lamp, side turn signal lamp or the rear combination lamp harness connector.
 - With Intelligent Key

Front turn signal lamp

| BCM | | Front turn signal lamp | | Continuity |
|-----------|----------|------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M70 | 61 | E46 | Existed |
| LH | | 60 | E27 | |

Side turn signal lamp

| BCM | | Side turn signal lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M70 | 61 | E40 | Existed |
| LH | | 60 | E23 | |

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Rear turn signal lamp

| BCM | | Rear combination lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M70 | 61 | B59 | 4 |
| LH | | 60 | B80 | |
| Existed | | | | |

- Without Intelligent Key

Front turn signal lamp

| BCM | | Front turn signal lamp | | Continuity |
|-----------|----------|------------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M67 | 61 | E46 | 1 |
| LH | | 60 | E27 | |
| Existed | | | | |

Side turn signal lamp

| BCM | | Side turn signal lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M67 | 61 | E40 | 1 |
| LH | | 60 | E23 | |
| Existed | | | | |

Rear turn signal lamp

| BCM | | Rear combination lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | M67 | 61 | B59 | 4 |
| LH | | 60 | B80 | |
| Existed | | | | |

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3.CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

With Intelligent Key

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| RH | M70 | 61 | Not existed |
| LH | | 60 | |

Without Intelligent Key

| BCM | | Ground | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | | |
| RH | M67 | 61 | Not existed |
| LH | | 60 | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 4.

4.CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

Check continuity between the BCM harness connector and the front turn signal lamp, side turn signal lamp or the rear combination lamp and the ground.

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TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Front turn signal lamp

| Front turn signal lamp | | Terminal | Ground | Continuity |
|------------------------|-----|----------|--------|------------|
| Connector | | | | Continuity |
| RH | E46 | 2 | | Existed |
| LH | E27 | | | |

Side turn signal lamp

| Side turn signal lamp | | Terminal | Ground | Continuity |
|-----------------------|-----|----------|--------|------------|
| Connector | | | | Continuity |
| RH | E40 | 2 | | Existed |
| LH | E23 | | | |

Rear turn signal lamp

| Rear combination lamp | | Terminal | Ground | Continuity |
|-----------------------|-----|----------|--------|------------|
| Connector | | | | Continuity |
| RH | B59 | 3 | | Existed |
| LH | B80 | | | |

Does continuity exist?

- YES >> Replace BCM. Refer to [BCS-88. "Removal and Installation"](#) (with Intelligent Key) or [BCS-155. "Removal and Installation"](#) (without Intelligent Key).
- NO >> Repair the harnesses or connectors.

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

OPTICAL SENSOR

Description

INFOID:000000009945156

Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.

Component Function Check

INFOID:000000009945157

1.CHECK OPTICAL SENSOR SIGNAL BY CONSULT

CONSULT DATA MONITOR

1. Turn the ignition switch ON.
2. Select "OPTISEN (DTCT)" of BCM (HEADLAMP) data monitor item.
3. Turn the lighting switch AUTO.
4. With the optical sensor illuminating, check the monitor status.

| Monitor item | Condition | | Voltage (Approx.) |
|----------------|----------------|-------------------------|-------------------|
| OPTISEN (DTCT) | Optical sensor | When illuminating | 3.1 V or more * |
| | | When shutting off light | 0.6 V or less |

*: Illuminates the optical sensor. The value may be less than the standard value if brightness is weak.

Is the item status normal?

- YES >> Optical sensor is normal.
 NO >> Refer to [EXL-53, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945158

1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

1. Turn the ignition switch ON.
2. Turn the lighting switch AUTO.
3. Check the voltage between the optical sensor harness connector and the ground.

| Terminals | | | Voltage (Approx.) |
|----------------|--------|--|-------------------|
| (+) | (-) | | |
| Optical sensor | | | 5 V |
| Connector | Ground | | |
| M17 | 1 | | |

Is the measurement value normal?

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

2.CHECK OPTICAL SENSOR GROUND INPUT

Check the voltage between the optical sensor harness connector and the ground.

| Terminals | | | Voltage (Approx.) |
|----------------|--------|--|-------------------|
| (+) | (-) | | |
| Optical sensor | | | 0 V |
| Connector | Ground | | |
| M17 | 3 | | |

Is the measurement value normal?

- YES >> GO TO 3.
 NO >> GO TO 6.

3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

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OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

With illuminating the optical sensor, check the voltage between the optical sensor harness connector and the ground.

| Terminals | | Condition | Voltage (Approx.) | |
|----------------|----------|----------------|-------------------------|-----------------|
| (+) | (-) | | | |
| Optical sensor | | Optical sensor | | |
| Connector | Terminal | | | |
| M17 | 2 | Ground | When illuminating | 3.1 V or more * |
| | | | When shutting off light | 0.6 V or less |

*: Illuminate the optical sensor. The value may be less than the standard if brightness is weak.

Is the measurement value normal?

YES >> GO TO 7.

NO >> Replace the optical sensor.

4. CHECK OPTICAL SENSOR OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 | 1 | M68 | 17 | Existed |

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

5. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check the continuity between the optical sensor harness connector and the ground.

| Optical sensor | | Ground | Continuity |
|----------------|----------|--------|-------------|
| Connector | Terminal | | |
| M17 | 1 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to [BCS-88. "Removal and Installation"](#).

6. CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 | 3 | M68 | 18 | Existed |

Does continuity exist?

YES >> Replace BCM. Refer to [BCS-88. "Removal and Installation"](#).

NO >> Repair the harnesses or connectors.

7. CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

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

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M17 | 2 | M68 | 14 | Existed |

Does continuity exist?

YES >> GO TO 8.

NO >> Repair the harnesses or connectors.

8.CHECK OPTICAL SENSOR SHORT CIRCUIT

Check the continuity between the optical sensor harness connector and the ground.

| Optical sensor | | Ground | Continuity |
|----------------|----------|--------|-------------|
| Connector | Terminal | | |
| M17 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM. Refer to [BCS-88. "Removal and Installation"](#).

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HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

HAZARD SWITCH

Component Function Check

INFOID:000000009945159

1. CHECK HAZARD SWITCH SIGNAL BY CONSULT

CONSULT DATA MONITOR

1. Turn the ignition switch ON.
2. Select "HAZARD SW" of BCM (FLASHER) data monitor item.
3. With operating the hazard switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|--------------|---------------|-----|----------------|
| HAZARD SW | Hazard switch | ON | On |
| | | OFF | Off |

Is the item status normal?

- YES >> Hazard switch circuit is normal.
 NO >> Refer to [EXL-56, "Diagnosis Procedure"](#).

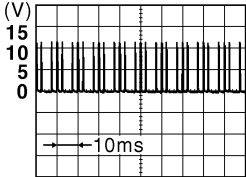
Diagnosis Procedure

INFOID:000000009945160

1. CHECK HAZARD SWITCH SIGNAL INPUT

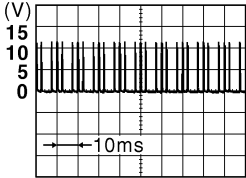
With operating the hazard switch, check the voltage between the BCM harness connector and the ground.

With Intelligent Key

| Terminals | | Condition | Voltage (Approx.) | |
|-----------|----------|---------------|-------------------|--|
| (+) | (-) | | | |
| BCM | | Hazard switch | | |
| Connector | Terminal | ON | 0 V | |
| M68 | 29 | Ground | OFF |  |

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Without Intelligent Key

| Terminals | | Condition | Voltage (Approx.) | |
|-----------|----------|---------------|-------------------|--|
| (+) | (-) | | | |
| BCM | | Hazard switch | | |
| Connector | Terminal | ON | 0 V | |
| M65 | 29 | Ground | OFF |  |

JPMIA0154GB

Is the measurement value normal?

- YES >> Replace BCM. Refer to [BCS-88, "Removal and Installation"](#) (with Intelligent Key) or [BCS-155, "Removal and Installation"](#) (without Intelligent Key).

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2.

2. CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

With Intelligent Key

| Hazard switch | | BCM | | Continuity |
|---------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M45 | 2 | M68 | 29 | Existed |

Without Intelligent Key

| Hazard switch | | BCM | | Continuity |
|---------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| M45 | 2 | M65 | 29 | Existed |

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

Check continuity between the hazard switch harness connector and the ground.

| Hazard switch | | Ground | Continuity |
|---------------|----------|--------|-------------|
| Connector | Terminal | | |
| M45 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 4.

4. CHECK HAZARD SWITCH GROUND OPEN CIRCUIT

Check continuity between the hazard switch harness connector and the ground.

| Hazard switch | | Ground | Continuity |
|---------------|----------|--------|------------|
| Connector | Terminal | | |
| M45 | 1 | | Existed |

Does continuity exist?

YES >> Replace the hazard switch.

NO >> Repair the harnesses or connectors.

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TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TAIL LAMP CIRCUIT

Component Function Check

INFOID:000000009945161

NOTE:

Check the parking lamp circuit if the parking lamp and the tail lamp are not turned ON.

1. CHECK TAIL LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the tail lamp is turned ON.

CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the tail lamp is turned ON.

TAIL : Tail lamp ON

Off : Tail lamp OFF

Is the tail lamp turned ON?

YES >> Tail lamp circuit is normal.

NO >> Refer to [EXL-58, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945162

1. CHECK TAIL LAMP OUTPUT VOLTAGE

CONSULT ACTIVE TEST

1. Disconnect the rear combination lamp connector.
2. Turn the ignition switch ON.
3. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
4. With operating the test items, check the voltage between the IPDM E/R harness connector and the ground.

| Terminals | | | Test item | Voltage (Approx.) |
|-----------|----------|--------|----------------|-------------------|
| (+) | | (-) | | |
| IPDM E/R | | | EXTERNAL LAMPS | |
| Connector | Terminal | Ground | | |
| RH | 38 | | | |
| LH | 41 | | | |
| E14 | | | | |
| | | | TAIL | Battery voltage |
| | | | Off | 0 V |
| | | | TAIL | Battery voltage |
| | | | Off | 0 V |

Is the measurement value normal?

YES >> GO TO 2.

NO >> Replace IPDM E/R.

2. CHECK TAIL LAMP OPEN CIRCUIT

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

TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

| IPDM E/R | | Rear combination lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | E14 | 38 | B59 | Existed |
| LH | | 41 | B80 | |

Does continuity exist?

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK TAIL LAMP GROUND OPEN CIRCUIT

Check continuity between the rear combination lamp harness connector and the ground.

| Rear combination lamp | | Ground | Continuity |
|-----------------------|----------|--------|------------|
| Connector | Terminal | | |
| RH | B59 | 3 | Existed |
| LH | B80 | | |

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

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REAR SIDE MARKER LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

REAR SIDE MARKER LAMP CIRCUIT

Component Function Check

INFOID:000000009945163

NOTE:

Check the parking lamp circuit if the parking lamp and the rear side marker lamp are not turned ON.

1. CHECK REAR SIDE MARKER LAMP OPERATION

⊗ IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the rear side marker lamp is turned ON.

Ⓟ CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the test items, check that the rear side marker lamp is turned ON.

TAIL : Rear side marker lamp ON
Off : Rear side marker lamp OFF

Is the rear side marker lamp turned ON/OFF?

- YES >> Rear side marker lamp circuit is normal.
NO >> Refer to [EXL-60, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945164

1. CHECK REAR SIDE MARKER LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

- YES >> GO TO 2.
NO >> Replace the bulb.

2. CHECK REAR SIDE MARKER LAMP OPEN CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect IPDM E/R connector and the rear side marker lamp connector.
3. Check continuity between the IPDM E/R harness connector and the rear side marker lamp harness connector.

| IPDM E/R | | Rear side marker lamp | | Continuity |
|-----------|----------|-----------------------|----------|------------|
| Connector | Terminal | Connector | Terminal | |
| RH | E14 | T5 | 1 | Existed |
| LH | | T4 | 1 | |

Does continuity exist?

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

3. CHECK REAR SIDE MARKER LAMP GROUND OPEN CIRCUIT

Check continuity between the rear side marker lamp harness connector and the ground.

| Rear side marker lamp | | | Ground | Continuity |
|-----------------------|----------|---|---------|------------|
| Connector | Terminal | | | |
| RH | T5 | 1 | Existed | |
| LH | T4 | 1 | | |

Does continuity exist?

- YES >> Replace the rear side marker lamp assembly.
NO >> Repair the harnesses or connectors.

LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:000000009945165

NOTE:

Check the parking lamp circuit if the parking lamp and the license plate lamp are not turned ON.

1. CHECK LICENSE PLATE LAMP OPERATION

IPDM E/R AUTO ACTIVE TEST

1. Start IPDM E/R auto active test. Refer to [PCS-10, "Diagnosis Description"](#) (with Intelligent Key) or [PCS-41, "Diagnosis Description"](#) (without Intelligent Key).
2. Check that the license plate lamp is turned ON.

CONSULT ACTIVE TEST

1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
2. With operating the lighting switch, check that the license plate lamp is turned ON.

TAIL : License plate lamp ON

Off : License plate lamp OFF

Is the license plate lamp turned ON?

- YES >> License plate lamp circuit is normal.
NO >> Refer to [EXL-61, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009945166

1. CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the bulb normal?

- YES >> GO TO 2.
NO >> Replace the bulb.

2. CHECK LICENSE PLATE LAMP OPEN CIRCUIT

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

| IPDM E/R | | License plate lamp | | Continuity | |
|-----------|----------|--------------------|----------|------------|---------|
| Connector | Terminal | Connector | Terminal | | |
| RH | E14 | 41 | T3 | 1 | Existed |
| LH | | | T2 | | |

Does continuity exist?

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

3. CHECK LICENSE PLATE LAMP GROUND OPEN CIRCUIT

Check continuity between the license plate lamp harness connector and the ground.

| License plate lamp | | | Ground | Continuity |
|--------------------|----------|----------|--------|------------|
| Connector | Terminal | Terminal | | |
| RH | T3 | 2 | Ground | Existed |
| LH | T2 | 2 | | |

Does continuity exist?

- YES >> Replace the license plate lamp.
NO >> Repair the harnesses or connectors.

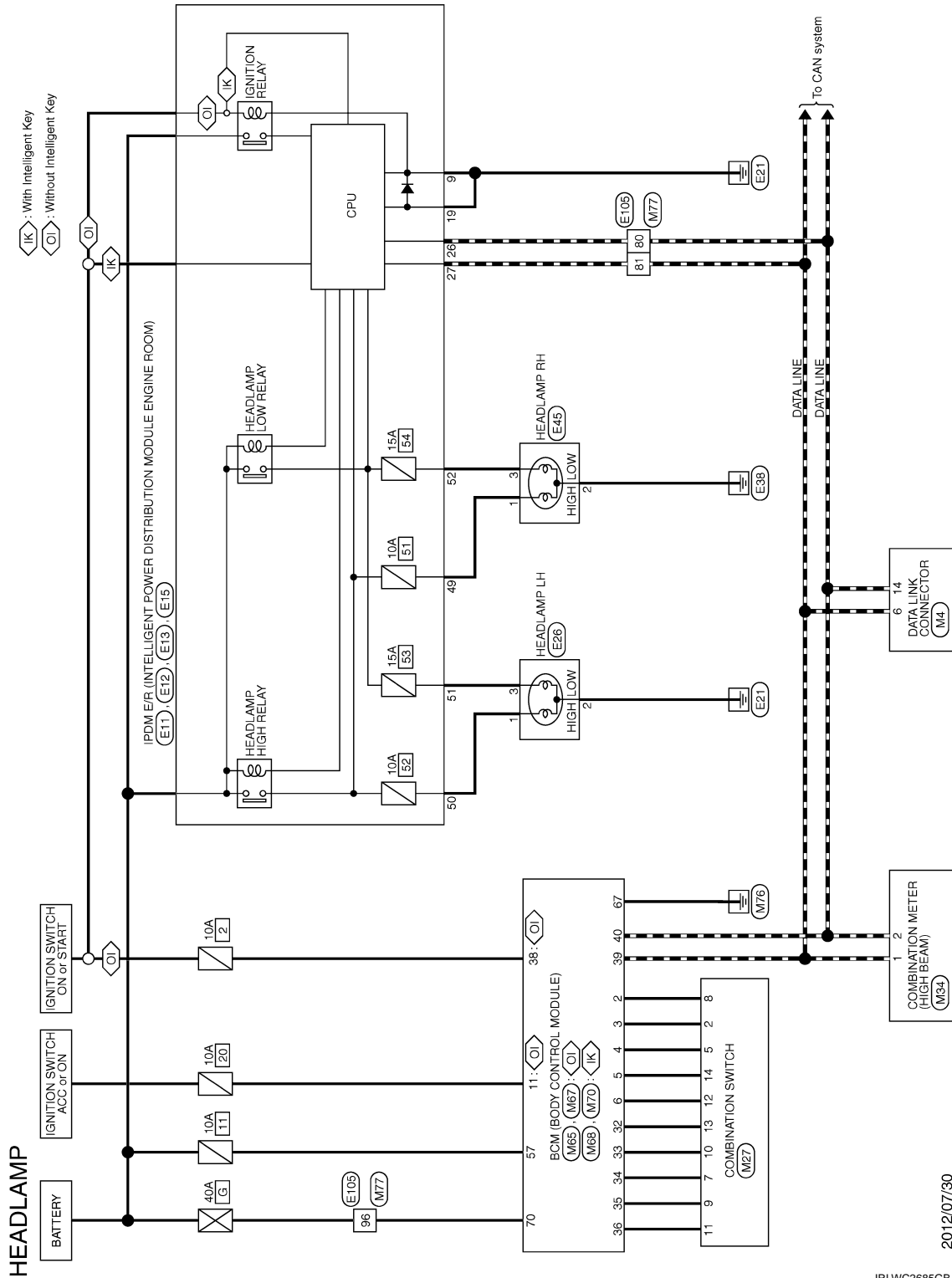
HEADLAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -

INFOID:000000009945167



2012/07/30

JRLWC2685GB

HEADLAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

| HEADLAMP | | | E105 | | |
|---------------|--|-----------------------------|--------------|---------------|-----------------------------|
| Connector No. | Wire | Signal Name [Specification] | Terminal No. | Color Of Wire | Signal Name [Specification] |
| E11 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 1 | V | |
| E12 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 2 | W | |
| E13 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 3 | SB | |
| E14 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 4 | G | |
| E15 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 5 | P | |
| E16 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 6 | L | - [With NAVI] |
| E17 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 7 | R | - [Without NAVI] |
| E18 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 8 | O | |
| E19 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 9 | W | |
| E20 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 10 | SB | |
| E21 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 31 | V | |
| E22 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 32 | R | |
| E23 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 33 | GR | |
| E24 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 34 | P | |
| E25 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 35 | Y | |
| E26 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 36 | BR | |
| E27 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 39 | SB | |
| E28 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 44 | R | |
| E29 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 45 | V | |
| E30 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 46 | P | |
| E31 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 48 | L | |
| E32 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 51 | B | - [With M/T] |
| E33 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 51 | BR | - [With CVT] |
| E34 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 53 | SB | |
| E35 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 54 | O | - [With M/T] |
| E36 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 57 | LG | - [With CVT] |
| E37 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 59 | L | |
| E38 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 60 | O | |
| E39 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 61 | G | |
| E40 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 62 | W | |
| E41 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 63 | L | |
| E42 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 67 | GR | - [With CVT] |
| E43 | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | 67 | V | - [With M/T] |

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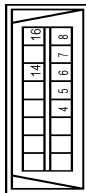
HEADLAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

HEADLAMP

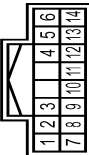
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| 69 | P | - |
| 70 | SHIELD | - |
| 71 | GR | - |
| 72 | LG | - |
| 73 | P | - |
| 74 | V | - |
| 76 | Y | - |
| 77 | LG | - |
| 78 | O | - |
| 79 | G | - |
| 80 | P | - |
| 81 | L | - |
| 82 | W | - |
| 83 | BR | - |
| 84 | B | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | Y | - |
| 94 | R | - |
| 95 | V | - |
| 96 | LG | - |
| 97 | R | - |
| 98 | SB | - |
| 99 | G | - |
| 100 | P | - |

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|----------------|---------------------|
| 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 | GR/R | - |
| 8 | O | - |
| 14 | P | - |
| 16 | LG/R | - |

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| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH8FW-NH |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-----------------------------|
| 1 | O/B | WASHER (RR) OUTPUT 4 |
| 2 | GR | WASHER (FR) |
| 3 | RG | IGN (IGN) |
| 4 | W | OUTPUT 3 |
| 5 | LY | GROUND |
| 6 | B | INPUT 3 |
| 7 | W | OUTPUT 5 |
| 8 | BR/W | INPUT 2 |
| 9 | R/L | INPUT 4 |
| 10 | Y/L | INPUT 1 |
| 11 | L/O | INPUT 1 |
| 12 | L/R | INPUT 5 |
| 13 | LG | INPUT 2 |
| 14 | G | OUTPUT 2 |

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



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|---|
| 1 | L | CANH |
| 2 | P | CANL |
| 3 | V | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | V/R | VEHICLE SPEED SIGNAL (6-PULSE) (Intermittent) |
| 6 | BR/V | FUEL LEVEL SENSOR SIGNAL |

| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|--|
| 7 | RG | AIR BAG SIGNAL |
| 8 | P | OVERDRIVE CONTROL SWITCH SIGNAL |
| 9 | O | SEAT BELT Buckle SWITCH SIGNAL (DRIVER SEAT) |
| 10 | SB | PARKING BRAKE SWITCH SIGNAL |
| 11 | GR | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 13 | BR | ILLUMINATION CONTROL SIGNAL |
| 15 | LY | ACC POWER SUPPLY |
| 18 | RY | SECURITY SIGNAL |
| 19 | PU/W | AMBIENT SENSOR SIGNAL |
| 20 | R/W | AMBIENT SENSOR GROUND |
| 21 | B | GROUND |
| 22 | B | GROUND |
| 23 | B | GROUND |
| 24 | PU | FUEL LEVEL SENSOR GROUND |
| 25 | B | VDC GROUND |
| 27 | LG/R | BATTERY POWER SUPPLY |
| 28 | GR | IGNITION SIGNAL |
| 29 | BR | PASSENGER SEAT BELT WARNING SIGNAL |
| 31 | R | ACCUMULATOR CHARGE REGULATOR SIGNAL |
| 35 | BR | ENGINE COOLANT TEMPERATURE SIGNAL |
| 38 | GR | ALTERNATOR SIGNAL |

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| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FW-NH |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-----------------------------|
| 2 | BR/W | COMBI SW INPUT 5 |
| 3 | GR | COMBI SW INPUT 4 |
| 4 | LY | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | L/R | COMBI SW INPUT 1 |
| 7 | W/R | KEY CYL UNLOCK SW |
| 8 | W/B | KEY CYL LOCK SW |
| 9 | R | STOP LAMP SW |
| 10 | W/L | REAR WINDOW BEFOGGER SW |
| 11 | LY | ACC POWER SUPPLY |
| 12 | SB | PASSENGER DOOR SW |
| 13 | GR/L | REAR RH DOOR SW |
| 18 | V | RECEIVER SENSOR GND |

| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-------------------------------------|
| 19 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 20 | GY | KEYLESS ENTRY RECEIVER COMM |
| 21 | P/L | NATS ANTENNA AMP. |
| 23 | RY | SECURITY INDICATOR LAMP |
| 25 | LG | NATS ANTENNA AMP. |
| 26 | GR | THERMO CONTROL AMP. |
| 27 | Y/G | A/C SW |
| 28 | GW | BLOWER FAN SW |
| 29 | L/W | HAZARD SW |
| 31 | GY | FR DEFROSTER SW |
| 32 | LG | COMBI SW OUTPUT 5 |
| 33 | Y/L | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | R/L | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | ROW | KEY SWITCH |
| 38 | O | IGNITION POWER SUPPLY |
| 39 | S | CANH |
| 40 | P | CANL |

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



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|--|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 59 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | G | PASSENGER LOCK REAR DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (IGN) |
| 69 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (F/L) |

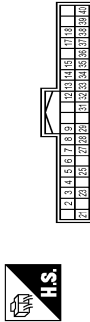
HEADLAMP SYSTEM

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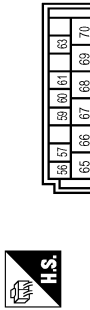
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| Connector No. | M68 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR/W | COMBI SW INPUT 5 |
| 2 | GR | COMBI SW INPUT 4 |
| 3 | LY | COMBI SW INPUT 3 |
| 4 | G | COMBI SW INPUT 2 |
| 5 | L/R | COMBI SW INPUT 1 |
| 6 | W/R | KEY CTL UNLOCK SW |
| 7 | W/B | KEY CTL LOCK SW |
| 8 | R | STOP LAMP SW 1 |
| 9 | GR | CENTRAL DOOR LOCK SW |
| 10 | BR | CENTRAL DOOR UNLOCK SW |
| 11 | L/G | OPTICAL SENSOR |
| 12 | L/G | REAR WINDOW DEFOGGER SW |
| 13 | W/L | OPTICAL SENSOR POWER SUPPLY |
| 14 | RG | SENSOR GND |
| 15 | V | NATS ANTENNA AMP. |
| 16 | P/L | SECURITY INDICATOR LAMP |
| 17 | R/Y | NATS ANTENNA AMP. |
| 18 | LG | AVC SW |
| 19 | O | BLOWER FAN SW |
| 20 | G/W | HAZARD SW |
| 21 | L/W | DR DOOR UNLOCK SENSOR |
| 22 | G/B | COMBI SW OUTPUT 5 |
| 23 | LG | COMBI SW OUTPUT 4 |
| 24 | Y/L | COMBI SW OUTPUT 3 |
| 25 | W | COMBI SW OUTPUT 2 |
| 26 | R/L | COMBI SW OUTPUT 1 |
| 27 | L/O | SHIFT P |
| 28 | G/O | RECEIVER COMM |
| 29 | G/Y | CAN-H |
| 30 | L | CAN-L |
| 31 | P | |

| | |
|----------------|---------------------------|
| Connector No. | M70 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA08FW-FHAG-SA |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 58 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 59 | W/B | TURN SIGNAL LH OUTPUT |
| 60 | W/L | TURN SIGNAL RH OUTPUT |
| 61 | BR | ROOM LAMP TIMER CONTROL |
| 62 | V | ALL DOOR LOCK OUTPUT |
| 63 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 64 | B | GROUND |
| 65 | L | POWER WINDOW POWER SUPPLY (IGN) |
| 66 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 67 | Y | BAT (F/L) |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/O | |
| 2 | R | |
| 3 | G/R | |
| 4 | G/B | |
| 5 | L | |
| 6 | L | |
| 7 | W/R | |
| 8 | G/W | |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | Y/L | |
| 10 | W | |
| 31 | GR/L | |
| 32 | L/B | |
| 33 | R/Y | |
| 34 | SB | |
| 35 | BR | |
| 36 | G | |
| 39 | L/R | |
| 44 | G/O | |
| 45 | L/G/R | |
| 46 | GR/W | |
| 48 | L/O | |
| 51 | B/W | |
| 53 | R/L | |
| 54 | O | |
| 67 | GR | |
| 69 | Y | |
| 80 | R/W | |
| 81 | P/W | |
| 82 | W/L | |
| 83 | W/B | |
| 87 | Y/R | |
| 89 | LG | |
| 70 | SHIELD | |
| 71 | P/B | |
| 72 | R/G | |
| 73 | R | |
| 74 | L/Y | |
| 76 | W/G | |
| 77 | GR/R | |
| 78 | O | |
| 79 | LG | |
| 80 | P | |
| 81 | L | |
| 82 | GR | |
| 83 | G/R | |
| 84 | B | |
| 91 | R | |
| 92 | O | |
| 93 | Y | |
| 94 | R/B | |
| 95 | L/W | |
| 96 | Y | |
| 97 | I | |
| 98 | BR/W | |
| 99 | W | |
| 100 | GR | |

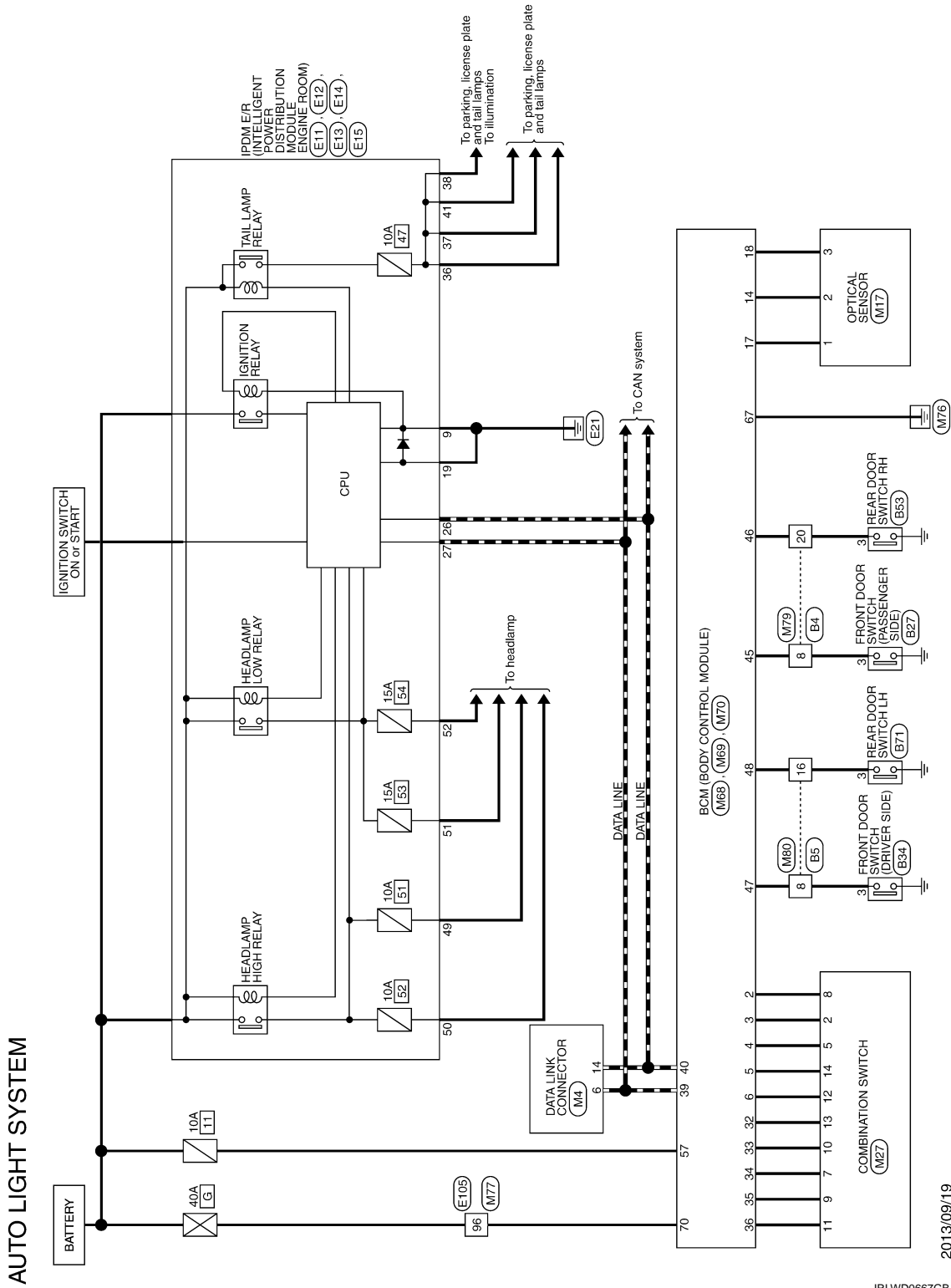
AUTO LIGHT SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

AUTO LIGHT SYSTEM

Wiring Diagram - AUTO LIGHT SYSTEM -

INFOID:000000009945168



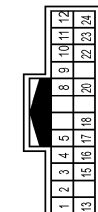

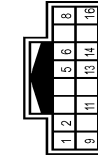
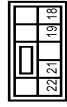



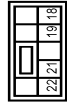



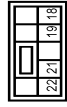
2013/09/19

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AUTO LIGHT SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

AUTO LIGHT SYSTEM

| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B4</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH04FMV-NH</td></tr> </table>  | Connector No. | B4 | Connector Name | WIRE TO WIRE | Connector Type | TH04FMV-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>W</td><td>-</td></tr> <tr><td>2</td><td>V</td><td>-</td></tr> <tr><td>3</td><td>O</td><td>-</td></tr> <tr><td>4</td><td>D</td><td>-</td></tr> <tr><td>5</td><td>W</td><td>-</td></tr> <tr><td>6</td><td>SB</td><td>-</td></tr> <tr><td>7</td><td>GR</td><td>-</td></tr> <tr><td>8</td><td>L</td><td>-</td></tr> <tr><td>9</td><td>G</td><td>-</td></tr> <tr><td>10</td><td>SB</td><td>-</td></tr> <tr><td>11</td><td>G</td><td>-</td></tr> <tr><td>12</td><td>SB</td><td>-</td></tr> <tr><td>13</td><td>L</td><td>-</td></tr> <tr><td>14</td><td>P</td><td>-</td></tr> <tr><td>15</td><td>R</td><td>-</td></tr> <tr><td>16</td><td>GR</td><td>-</td></tr> <tr><td>17</td><td>BR</td><td>-</td></tr> <tr><td>18</td><td>L</td><td>-</td></tr> <tr><td>20</td><td>LG</td><td>-</td></tr> <tr><td>22</td><td>Y</td><td>-</td></tr> <tr><td>23</td><td>BR</td><td>-</td></tr> <tr><td>24</td><td>O</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 1 | W | - | 2 | V | - | 3 | O | - | 4 | D | - | 5 | W | - | 6 | SB | - | 7 | GR | - | 8 | L | - | 9 | G | - | 10 | SB | - | 11 | G | - | 12 | SB | - | 13 | L | - | 14 | P | - | 15 | R | - | 16 | GR | - | 17 | BR | - | 18 | L | - | 20 | LG | - | 22 | Y | - | 23 | BR | - | 24 | O | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>W</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E11</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>M06FB-LC</td></tr> </table>  | Connector No. | E11 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | M06FB-LC |
|---|---|-----------------------------|----------------|------------------------------------|----------------|------------|---|--------------|---------------|-----------------------------|---|----|---|--|-----------------------|------|-----------------------------|---|---|---|--|---------------|-----|----------------|---|----------------|------------|---|---|----|---|---|---|---|---|----|---|----|----|---|----|---|---|----|----|---|----|---|---|----|---|---|----|---|---|----|----|---|---|-----------------------|------|-----------------------------|---|----|----|--|---------------|-----|----------------|---|----------------|------------|---|----|---|---|--|-----------------------|------|-----------------------------|---|---|---|--|---------------|-----|----------------|---|----------------|----------|
| Connector No. | B4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | WIRE TO WIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH04FMV-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | O | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | D | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | R | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | O | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | M06FB-LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B5</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH06MW-NH</td></tr> </table>  | Connector No. | B5 | Connector Name | WIRE TO WIRE | Connector Type | TH06MW-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>GR</td><td>-</td></tr> <tr><td>3</td><td>V</td><td>-</td></tr> <tr><td>4</td><td>W</td><td>-</td></tr> <tr><td>5</td><td>W</td><td>-</td></tr> <tr><td>6</td><td>LG</td><td>-</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>O</td><td>-</td></tr> <tr><td>9</td><td>GR</td><td>-</td></tr> <tr><td>10</td><td>P</td><td>-</td></tr> <tr><td>11</td><td>W</td><td>-</td></tr> <tr><td>12</td><td>W</td><td>-</td></tr> <tr><td>13</td><td>W</td><td>-</td></tr> <tr><td>14</td><td>P</td><td>-</td></tr> <tr><td>15</td><td>W</td><td>-</td></tr> <tr><td>16</td><td>W</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 1 | V | - | 2 | GR | - | 3 | V | - | 4 | W | - | 5 | W | - | 6 | LG | - | 7 | R | - | 8 | O | - | 9 | GR | - | 10 | P | - | 11 | W | - | 12 | W | - | 13 | W | - | 14 | P | - | 15 | W | - | 16 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>LG</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | LG | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E12</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>NS06FB-RCS</td></tr> </table>  | Connector No. | E12 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | |
| Connector No. | B5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | WIRE TO WIRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH06MW-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | R | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | O | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B34</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>TH04FMV-NH</td></tr> </table>  | Connector No. | B34 | Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) | Connector Type | TH04FMV-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 3 | LG | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>W</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E11</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>M06FB-LC</td></tr> </table>  | Connector No. | E11 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | M06FB-LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | B34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH04FMV-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | M06FB-LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B27</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>TH04FMV-NH</td></tr> </table>  | Connector No. | B27 | Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) | Connector Type | TH04FMV-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 3 | LG | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>W</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E12</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>NS06FB-RCS</td></tr> </table>  | Connector No. | E12 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | B27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH04FMV-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B71</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SWITCH LH</td></tr> <tr><td>Connector Type</td><td>TH04FMV-NH</td></tr> </table>  | Connector No. | B71 | Connector Name | REAR DOOR SWITCH LH | Connector Type | TH04FMV-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 3 | LG | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>W</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E11</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>M06FB-LC</td></tr> </table>  | Connector No. | E11 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | M06FB-LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | B71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | REAR DOOR SWITCH LH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH04FMV-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | M06FB-LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>B53</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SWITCH RH</td></tr> <tr><td>Connector Type</td><td>TH04FMV-NH</td></tr> </table>  | Connector No. | B53 | Connector Name | REAR DOOR SWITCH RH | Connector Type | TH04FMV-NH | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Terminal No.</th> <th>Color Of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr><td>3</td><td>LG</td><td>-</td></tr> </tbody> </table> | Terminal No. | Color Of Wire | Signal Name [Specification] | 3 | LG | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal Color Of No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>W</td><td>-</td></tr> </table> | Terminal Color Of No. | Wire | Signal Name [Specification] | 3 | W | - | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>E12</td></tr> <tr><td>Connector Name</td><td>POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>NS06FB-RCS</td></tr> </table>  | Connector No. | E12 | Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | B53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | REAR DOOR SWITCH RH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | TH04FMV-NH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Color Of Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal Color Of No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | E12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS06FB-RCS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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AUTO LIGHT SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

AUTO LIGHT SYSTEM

| | |
|----------------|--|
| Connector No. | E13 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH12FV-NH |



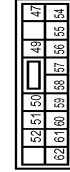
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24 | G | - |
| 25 | Y | - |
| 26 | P | - |
| 27 | L | - |
| 28 | P | - |
| 30 | SB | - |
| 31 | W | - |
| 33 | O | - |
| 34 | R | - |

| | |
|----------------|--|
| Connector No. | E14 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS12FBR-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36 | O | - |
| 37 | V | - |
| 38 | G | - |
| 39 | V | - |
| 40 | R | - |
| 41 | SB | - |
| 43 | G | - |
| 44 | P | - |
| 45 | Y | - |
| 46 | O | - |

| | |
|----------------|--|
| Connector No. | E15 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS16FV-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 47 | BR | - |
| 49 | W | - |
| 50 | GR | - |
| 51 | R | - |
| 52 | P | - |
| 54 | GR | - |
| 55 | P | - |
| 56 | SB | - |
| 57 | G | - |
| 58 | LG | - |
| 59 | R | - |
| 60 | Y | - |
| 61 | W | - |
| 62 | L | - |

| | |
|----------------|-----------------|
| Connector No. | E105 |
| Connector Name | WIRES TO WIRE |
| Connector Type | TH80MW-GS16-TM4 |

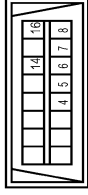


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | G | - |
| 5 | P | - |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6 | L | - |
| 6 | R | - |
| 7 | Y | - |
| 8 | O | - |
| 9 | W | - |
| 10 | SB | - |
| 31 | V | - |
| 32 | R | - |
| 33 | GR | - |
| 34 | P | - |
| 35 | Y | - |
| 36 | BR | - |
| 39 | SB | - |
| 44 | R | - |
| 45 | V | - |
| 46 | P | - |
| 48 | L | - |
| 51 | B | - |
| 51 | BR | - |
| 53 | SB | - |
| 54 | O | - |
| 54 | W | - |
| 57 | LG | - |
| 59 | L | - |
| 60 | O | - |
| 61 | G | - |
| 62 | W | - |
| 63 | L | - |
| 67 | GR | - |
| 67 | V | - |
| 69 | P | - |
| 70 | SHIELD | - |
| 71 | GR | - |
| 72 | LG | - |
| 73 | P | - |
| 74 | V | - |
| 76 | Y | - |
| 77 | LG | - |
| 78 | O | - |
| 79 | G | - |
| 80 | P | - |
| 81 | L | - |
| 82 | W | - |
| 83 | BR | - |
| 84 | B | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | Y | - |
| 84 | R | - |
| 95 | V | - |

| | | |
|-----|----|---|
| 96 | LG | - |
| 97 | R | - |
| 98 | SB | - |
| 99 | G | - |
| 100 | P | - |

| | |
|----------------|---------------------|
| 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 | GRR | - |
| 8 | O | - |
| 14 | P | - |
| 16 | LGR | - |

| | |
|----------------|----------------|
| Connector No. | IM17 |
| Connector Name | OPTICAL SENSOR |
| Connector Type | TK03FW |



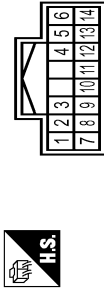
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R/G | POWER OUTPUT |
| 2 | L/B | OUTPUT |
| 3 | V | GROUND |

AUTO LIGHT SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

AUTO LIGHT SYSTEM

| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH40FB-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | OR | WASHER (RR) OUTPUT 4 |
| 2 | GR | WASHER (FR) |
| 4 | W | IGN |
| 5 | LY | OUTPUT 3 |
| 6 | B | GROUND |
| 7 | W | INPUT 3 |
| 8 | BRW | OUTPUT 5 |
| 9 | R/L | INPUT 2 |
| 10 | Y/L | INPUT 4 |
| 11 | LO | INPUT 1 |
| 12 | L/R | OUTPUT 1 |
| 13 | LG | INPUT 5 |
| 14 | G | OUTPUT 2 |

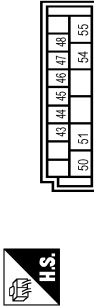
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|----------------|---------------------------|
| Connector No. | M68 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BRW | COMBI SW INPUT 5 |
| 2 | GR | COMBI SW INPUT 4 |
| 3 | LY | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | L/R | COMBI SW INPUT 1 |
| 7 | W/R | KEY CYL UNLOCK SW |

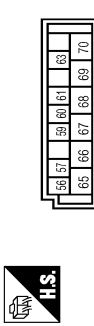
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|----|-----|-----------------------------|
| 8 | W/B | KEY CYL LOCK SW |
| 9 | R | CENTRAL DOOR LOCK SW 1 |
| 12 | GR | CENTRAL DOOR LOCK SW |
| 13 | BR | CENTRAL DOOR UNLOCK SW |
| 14 | L/G | OPTICAL SENSOR |
| 15 | W/L | REAR WINDOW DEFOGGER SW |
| 17 | R/G | OPTICAL SENSOR POWER SUPPLY |
| 18 | V | SENSOR GND |
| 21 | P/L | NATS ANTENNA AMP. |
| 23 | R/Y | SECURITY INDICATOR LAMP |
| 25 | LG | NATS ANTENNA AMP. |
| 27 | O | A/C SW |
| 28 | GW | BLOWER FAN SW |
| 29 | L/W | HAZARD SW |
| 31 | G/B | DR DOOR UNLOCK SENSOR |
| 32 | LG | COMBI SW OUTPUT 5 |
| 33 | Y/L | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | R/L | COMBI SW OUTPUT 2 |
| 36 | LO | COMBI SW OUTPUT 1 |
| 37 | GO | SHIFT P |
| 38 | G/Y | RECEIVER COMM |
| 39 | L | CANH |
| 40 | P | CANL |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | W | BACK DOOR SW |
| 44 | LG | REAR WIPER STOP POSITION |
| 45 | SB | PASSENGER DOOR SW |
| 46 | GR/L | REAR RH DOOR SW |
| 47 | BR/Y | DRIVER DOOR SW |
| 48 | W/G | REAR LH DOOR SW |
| 50 | R/W | BK DR LOCK ACT RELAY CONT |
| 51 | W | BACK DOOR REQUEST SW |
| 54 | LG | REAR WIPER OUTPUT |
| 55 | G | REAR DOOR UNLOCK OUTPUT |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 59 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (IGN) |
| 69 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (F/L) |

| | |
|----------------|-----------------|
| Connector No. | M77 |
| Connector Name | WIPE TO WIRE |
| Connector Type | TH80FW-GS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R/O | - |
| 2 | R | - |
| 3 | G/B | - |
| 4 | G/B | - |
| 5 | L | - |
| 6 | L | - |
| 7 | W/R | - |
| 8 | GW | - |

| | | |
|-----|--------|---|
| 9 | Y/L | - |
| 10 | W | - |
| 31 | GR/L | - |
| 32 | L/B | - |
| 33 | R/Y | - |
| 34 | SB | - |
| 35 | BR | - |
| 36 | G | - |
| 39 | L/R | - |
| 44 | G/O | - |
| 45 | LG/R | - |
| 46 | GRW | - |
| 48 | L/O | - |
| 51 | B/W | - |
| 53 | R/L | - |
| 54 | O | - |
| 57 | GR | - |
| 59 | V | - |
| 60 | R/W | - |
| 61 | P/W | - |
| 62 | W/L | - |
| 63 | W/B | - |
| 67 | Y/R | - |
| 69 | LG | - |
| 70 | SHIELD | - |
| 71 | P/B | - |
| 72 | R/G | - |
| 73 | R | - |
| 74 | L/Y | - |
| 76 | W/G | - |
| 77 | GR/R | - |
| 78 | O | - |
| 79 | LG | - |
| 80 | P | - |
| 81 | L | - |
| 82 | GR | - |
| 83 | G/R | - |
| 84 | B | - |
| 91 | R | - |
| 92 | O | - |
| 93 | Y | - |
| 94 | R/B | - |
| 95 | L/W | - |
| 96 | Y | - |
| 97 | L | - |
| 98 | BR/W | - |
| 99 | W | - |
| 100 | GR | - |

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AUTO LIGHT SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

AUTO LIGHT SYSTEM

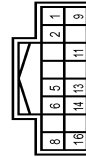
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| Connector No. | M79 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L/B | - |
| 2 | GR/L | - |
| 5 | W | - |
| 6 | W/L | - |
| 8 | BR/Y | - |
| 9 | RY | - |
| 11 | O | - |
| 13 | BR/W | - |
| 14 | W/B | - |
| 16 | W/G | - |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W/G | - |
| 2 | L/Y | - |
| 3 | R | - |
| 4 | P/B | - |
| 5 | W | - |
| 8 | SB | - |
| 9 | LG | - |
| 10 | GR/B | - |
| 11 | GB | - |
| 12 | GR | - |
| 13 | RG | - |
| 15 | RL | - |
| 16 | GR/R | - |
| 17 | BR/Y | - |
| 18 | PU | - |
| 20 | GR/L | - |
| 22 | L | - |
| 23 | Y/L | - |
| 24 | GW | - |

| | |
|----------------|--------------|
| Connector No. | M80 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH16FW-NH |



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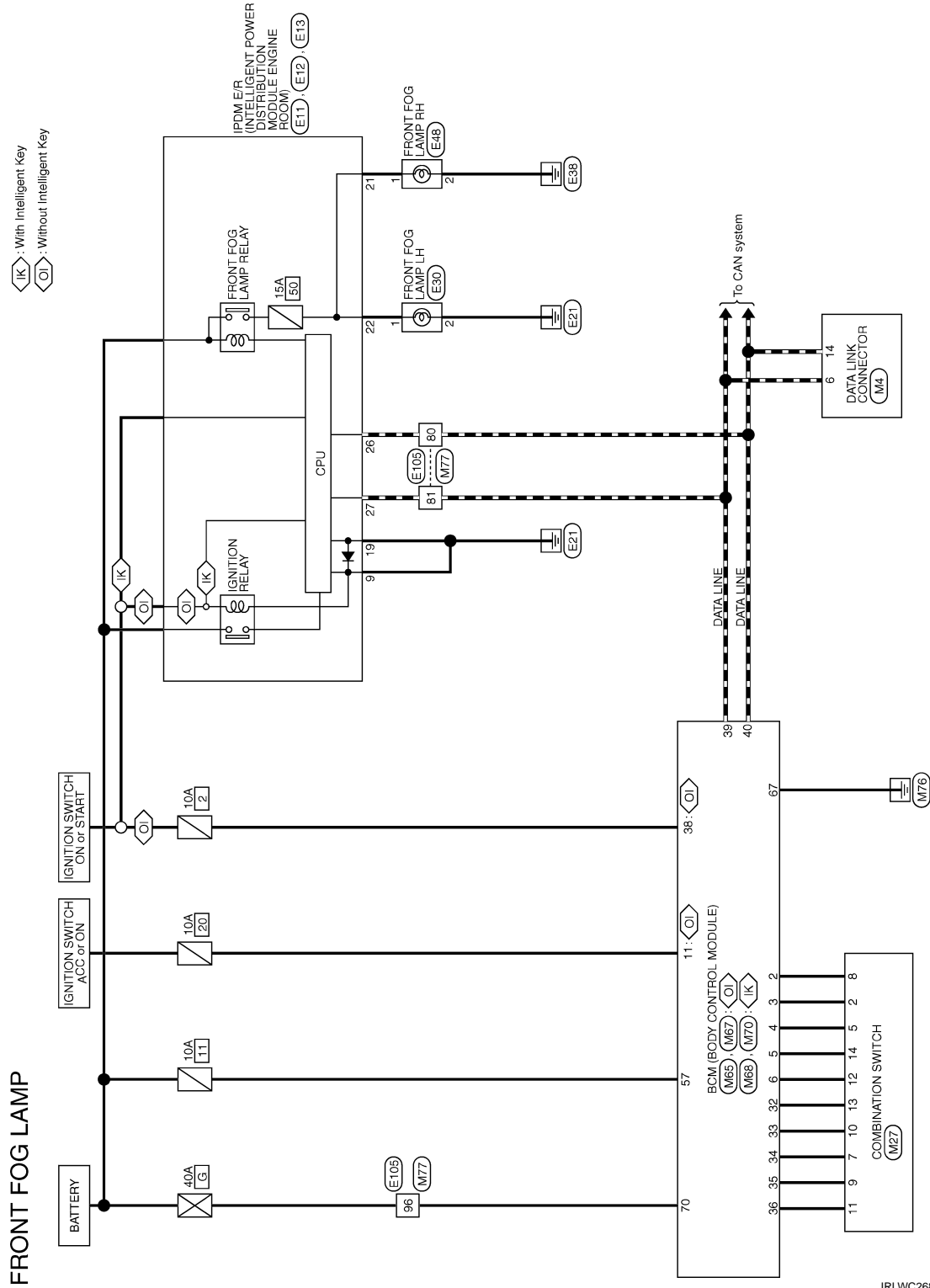
FRONT FOG LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP SYSTEM

Wiring Diagram - FRONT FOG LAMP -

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FRONT FOG LAMP SYSTEM

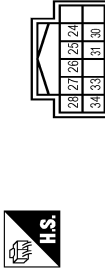
< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP

| | |
|----------------|---|
| Connector No. | E11 |
| Connector Name | FROM ER INTELLIGENT POWER DS TRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | M06FELC |



| | |
|----------------|---|
| Connector No. | E13 |
| Connector Name | FROM ER INTELLIGENT POWER DS TRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH12FM-NH |



| | |
|----------------|-------------------|
| Connector No. | E48 |
| Connector Name | FRONT FOG LAMP RH |
| Connector Type | FCI_240PC023S4019 |



| Terminal Color Of No. | Wire | Signal Name [Specification] |
|-----------------------|------|-----------------------------|
| 9 | BAW | - |
| 10 | L | - |
| 13 | W | - |

| | |
|----------------|---|
| Connector No. | E12 |
| Connector Name | FROM ER INTELLIGENT POWER DS TRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS08FBR-CS |



| Terminal Color Of No. | Wire | Signal Name [Specification] |
|-----------------------|------|-----------------------------|
| 18 | Y | - |
| 19 | BAW | - |
| 21 | W | - |
| 22 | V | - |

| Terminal Color Of No. | Wire | Signal Name [Specification] |
|-----------------------|------|-----------------------------|
| 24 | G | - |
| 25 | Y | - |
| 26 | P | - |
| 27 | L | - |
| 28 | P | - |
| 30 | SB | - |
| 31 | W | - |
| 33 | O | - |
| 34 | R | - |

| | |
|----------------|-------------------|
| Connector No. | E30 |
| Connector Name | FRONT FOG LAMP LH |
| Connector Type | FCI_240PC023S4019 |



| Terminal Color Of No. | Wire | Signal Name [Specification] |
|-----------------------|------|-----------------------------|
| 1 | W | - |
| 2 | BY | - |

| | |
|----------------|------------------|
| Connector No. | E105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR80MNV-CS16-TM4 |



| Terminal Color Of No. | Wire | Signal Name [Specification] |
|-----------------------|------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | G | - |
| 5 | P | - |
| 6 | L | - [With NAVI] |
| 7 | Y | - [Without NAVI] |
| 8 | O | - |
| 9 | W | - |
| 10 | SB | - |
| 31 | V | - |
| 32 | R | - |
| 33 | GR | - |
| 34 | E | - |
| 35 | Y | - |
| 36 | BR | - |

| | | |
|-----|--------|--------------|
| 39 | SB | - |
| 44 | R | - |
| 45 | V | - |
| 46 | P | - |
| 48 | L | - |
| 51 | B | - [With M/T] |
| 51 | BR | - [With CVT] |
| 53 | SB | - |
| 54 | O | - [With M/T] |
| 54 | W | - [With CVT] |
| 57 | LG | - |
| 59 | L | - |
| 60 | O | - |
| 61 | G | - |
| 62 | W | - |
| 63 | L | - |
| 67 | GR | - [With CVT] |
| 67 | V | - [With M/T] |
| 69 | P | - |
| 70 | SHIELD | - |
| 71 | GR | - |
| 72 | LG | - |
| 73 | P | - |
| 74 | V | - |
| 76 | Y | - |
| 77 | LG | - |
| 78 | O | - |
| 79 | G | - |
| 80 | P | - |
| 81 | L | - |
| 82 | W | - |
| 83 | BR | - |
| 84 | B | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | Y | - |
| 94 | R | - |
| 95 | V | - |
| 96 | LG | - |
| 97 | R | - |
| 98 | SB | - |
| 99 | G | - |
| 100 | P | - |

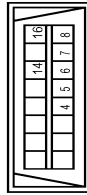
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FRONT FOG LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

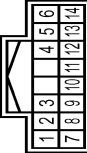
FRONT FOG LAMP

| | |
|----------------|---------------------|
| Connector No. | M4 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FV |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | B | - |
| 5 | B | - |
| 6 | B | - |
| 7 | GR/R | - |
| 8 | O | - |
| 14 | P | - |
| 16 | LG/R | - |

| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH6FV-NH |



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

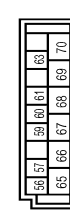
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| Connector No. | G | OUTPUT 2 |
|---------------|---|----------|

| | |
|----------------|---------------------------|
| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FV-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------------|
| 1 | BR/W | COMBI SW INPUT 5 |
| 2 | GR | COMBI SW INPUT 4 |
| 3 | L/Y | COMBI SW INPUT 3 |
| 4 | G | COMBI SW INPUT 2 |
| 5 | L/R | COMBI SW INPUT 1 |
| 6 | W/R | KEY CYL UNLOCK SW |
| 7 | W/B | KEY CYL LOCK SW |
| 8 | R | STOP LAMP SW |
| 9 | W/L | REAR WINDOW DEFOGGER SW |
| 10 | L/Y | ACC POWER SUPPLY |
| 11 | SB | REAR RH DOOR SW |
| 12 | GR/L | PASSENGER DOOR SW |
| 13 | V | RECEIVER / SENSOR GND |
| 14 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 15 | G/Y | KEYLESS ENTRY RECEIVER COMM |
| 16 | P/L | NATS ANTENNA AMP. |
| 17 | R/Y | SECURITY INDICATOR LAMP |
| 18 | LG | NATS ANTENNA AMP. |
| 19 | GR | THERMO CONTROL AMP. |
| 20 | Y/G | A/C SW |
| 21 | G/W | BLOWER FAN SW |
| 22 | L/W | HAZARD SW |
| 23 | G/Y | FR DEFROSTER SW |
| 24 | LG | COMBI SW OUTPUT 5 |
| 25 | Y/L | COMBI SW OUTPUT 4 |
| 26 | W | COMBI SW OUTPUT 3 |
| 27 | R/L | COMBI SW OUTPUT 2 |
| 28 | L/O | COMBI SW INPUT 1 |
| 29 | R/W | KEY SWITCH |
| 30 | O | IGNITION POWER SUPPLY |
| 31 | L | GNDH |
| 32 | P | CANH |
| 33 | P | CANL |

| | |
|----------------|---------------------------|
| Connector No. | M67 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FB-FH4G-SA |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 58 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 59 | W/B | TURN SIGNAL LH OUTPUT |
| 60 | W/L | TURN SIGNAL RH OUTPUT |
| 61 | BR | ROOM LAMP TIMER CONTROL |
| 62 | V | ALL DOOR LOCK OUTPUT |
| 63 | G | PASSENGER DOOR REAR DOOR UNLOCK OUTPUT |
| 64 | B | GROUND |
| 65 | L | POWER WINDOW POWER SUPPLY (GN) |
| 66 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 67 | Y | BAT (F/L) |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR/W | COMBI SW INPUT 5 |
| 2 | GR | COMBI SW INPUT 4 |
| 3 | L/Y | COMBI SW INPUT 3 |
| 4 | G | COMBI SW INPUT 2 |
| 5 | L/R | COMBI SW INPUT 1 |
| 6 | W/R | KEY CYL UNLOCK SW |
| 7 | W/B | KEY CYL LOCK SW |
| 8 | R | STOP LAMP SW 1 |

| | | |
|----|-----|-----------------------------|
| 12 | GR | CENTRAL DOOR LOCK SW |
| 13 | BR | CENTRAL DOOR UNLOCK SW |
| 14 | L/G | OPTICAL SENSOR |
| 15 | W/L | REAR WINDOW DEFOGGER SW |
| 17 | R/G | OPTICAL SENSOR POWER SUPPLY |
| 18 | V | SENSOR GND |
| 21 | P/L | NATS ANTENNA AMP. |
| 23 | R/Y | SECURITY INDICATOR LAMP |
| 25 | LG | NATS ANTENNA AMP. |
| 27 | O | A/C SW |
| 28 | G/W | BLOWER FAN SW |
| 29 | L/W | HAZARD SW |
| 31 | G/B | DR DOOR UNLOCK SENSOR |
| 32 | LG | COMBI SW OUTPUT 5 |
| 33 | Y/L | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | R/L | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | G/O | SHIFT P |
| 38 | G/Y | RECEIVER COMM |
| 39 | L | CANH |
| 40 | P | CANL |

| | |
|----------------|---------------------------|
| Connector No. | M70 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FV-FH4G-SA |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 58 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 59 | W/B | TURN SIGNAL LH OUTPUT |
| 60 | W/L | TURN SIGNAL RH OUTPUT |
| 61 | BR | ROOM LAMP TIMER CONTROL |
| 62 | V | ALL DOOR LOCK OUTPUT |
| 63 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 64 | B | GROUND |
| 65 | L | POWER WINDOW POWER SUPPLY (GN) |
| 66 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 67 | Y | BAT (F/L) |

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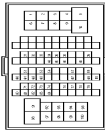
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FRONT FOG LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

FRONT FOG LAMP

| | |
|----------------|-----------------|
| Connector No. | M77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-C516-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/O | - |
| 2 | R | - |
| 3 | G/R | - |
| 4 | G/B | - |
| 5 | L | - |
| 6 | L | - |
| 7 | W/R | - |
| 8 | GW | - |
| 9 | Y/L | - |
| 10 | W | - |
| 31 | GR/L | - |
| 32 | LB | - |
| 33 | RY | - |
| 34 | SB | - |
| 35 | BR | - |
| 36 | G | - |
| 39 | L/R | - |
| 44 | G/O | - |
| 45 | LG/R | - |
| 46 | GRW | - |
| 48 | L/O | - |
| 51 | BW | - |
| 53 | R/L | - |
| 54 | O | - |
| 57 | GR | - |
| 59 | V | - |
| 60 | RW | - |
| 61 | PLW | - |
| 62 | W/L | - |
| 63 | W/B | - |
| 67 | Y/R | - |
| 69 | LG | - |
| 70 | SHIELD | - |
| 71 | P/B | - |
| 72 | RG | - |
| 73 | R | - |

| | | |
|-----|------|---|
| 74 | L/Y | - |
| 76 | W/G | - |
| 77 | GR/R | - |
| 78 | O | - |
| 79 | LG | - |
| 80 | P | - |
| 81 | L | - |
| 82 | GR | - |
| 83 | G/R | - |
| 84 | B | - |
| 91 | R | - |
| 92 | O | - |
| 93 | Y | - |
| 94 | R/B | - |
| 95 | L/W | - |
| 96 | Y | - |
| 97 | L | - |
| 98 | BRW | - |
| 99 | W | - |
| 100 | GR | - |

JRLWD0811GB

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

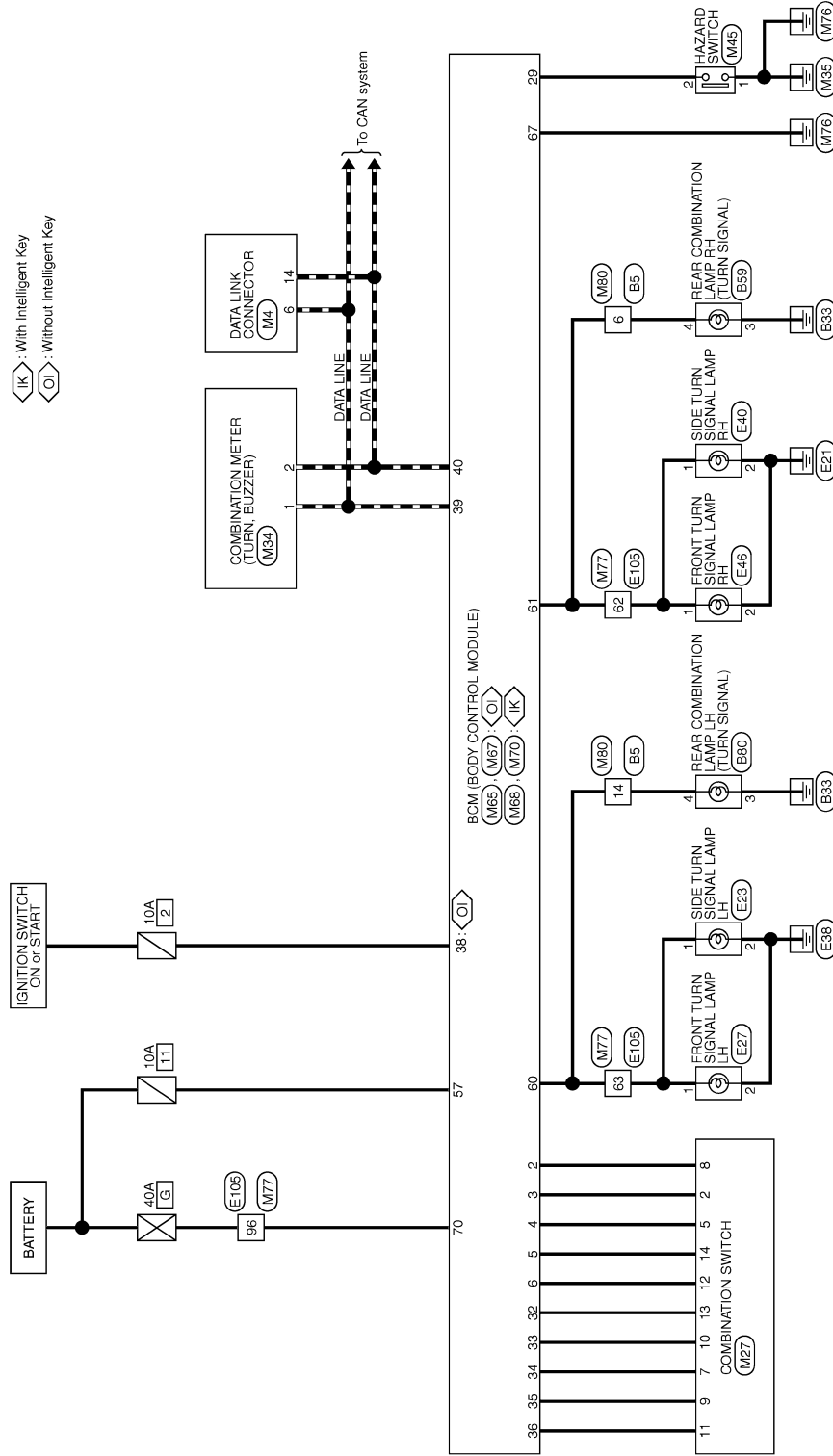
< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -

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TURN SIGNAL AND HAZARD WARNING LAMPS



2012/07/30

JRLWC2690GB

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL AND HAZARD WARNING LAMPS

| | | | |
|---|--|--|---|
| <p>Connector No. B5</p> <p>Connector Name WIRE TO WIRE</p> <p>Connector Type TH86MW-AH</p> <p>H.S.</p> | <p>Connector No. B80</p> <p>Connector Name REAR COMBINATION LAMP LH</p> <p>Connector Type RS06FB-FR</p> <p>H.S.</p> | <p>Connector No. E27</p> <p>Connector Name FRONT TURN SIGNAL LAMP LH</p> <p>Connector Type RS02FB</p> <p>H.S.</p> | <p>Connector No. E46</p> <p>Connector Name FRONT TURN SIGNAL LAMP RH</p> <p>Connector Type RS02FB</p> <p>H.S.</p> |
| <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 V -</p> <p>2 GR -</p> <p>3 W -</p> <p>4 W -</p> <p>5 W -</p> <p>6 LG -</p> <p>7 R -</p> <p>8 O -</p> <p>9 GR -</p> <p>10 P -</p> <p>11 W -</p> <p>12 W -</p> <p>13 GR -</p> <p>14 P -</p> <p>15 W -</p> <p>16 W -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 Y -</p> <p>2 B -</p> <p>3 P -</p> <p>4 R -</p> <p>5 GR -</p> <p>6 GR -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 L -</p> <p>2 B/W -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 W -</p> <p>2 B/Y -</p> |
| <p>Connector No. B59</p> <p>Connector Name REAR COMBINATION LAMP RH</p> <p>Connector Type RS06FB-FR</p> <p>H.S.</p> | <p>Connector No. E23</p> <p>Connector Name SIDE TURN SIGNAL LAMP LH</p> <p>Connector Type STL02FW</p> <p>H.S.</p> | <p>Connector No. E40</p> <p>Connector Name SIDE TURN SIGNAL LAMP RH</p> <p>Connector Type STL02FW</p> <p>H.S.</p> | <p>Connector No. E105</p> <p>Connector Name WIRE TO WIRE</p> <p>Connector Type TH86MW-CS16-TM4</p> <p>H.S.</p> |
| <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 Y -</p> <p>2 B -</p> <p>3 W -</p> <p>4 R -</p> <p>5 V -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 L -</p> <p>2 B/R -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 W -</p> <p>2 B/Y -</p> | <p>Terminal Color Of No. Wire</p> <p>Signal Name [Specification]</p> <p>1 V -</p> <p>2 W -</p> <p>3 SB -</p> <p>4 G -</p> <p>5 P -</p> <p>6 L -</p> <p>7 Y -</p> <p>8 O -</p> <p>9 W -</p> <p>10 SB -</p> <p>11 V -</p> <p>12 R -</p> <p>13 GR -</p> <p>14 F -</p> <p>15 Y -</p> <p>16 BR -</p> |

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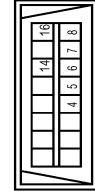
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL AND HAZARD WARNING LAMPS

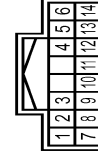
| | | | | |
|-----|--------|---|------------|---|
| 39 | SB | - | - | - |
| 44 | R | - | - | - |
| 45 | V | - | - | - |
| 46 | P | - | - | - |
| 48 | L | - | - | - |
| 51 | B | - | [With M/T] | - |
| 51 | BR | - | [With CVT] | - |
| 53 | SB | - | - | - |
| 54 | O | - | [With M/T] | - |
| 54 | W | - | [With CVT] | - |
| 57 | LG | - | - | - |
| 59 | L | - | - | - |
| 60 | O | - | - | - |
| 61 | G | - | - | - |
| 62 | W | - | - | - |
| 63 | L | - | - | - |
| 67 | GR | - | [With CVT] | - |
| 67 | Y | - | [With M/T] | - |
| 69 | P | - | - | - |
| 70 | SHIELD | - | - | - |
| 71 | GR | - | - | - |
| 72 | LG | - | - | - |
| 73 | P | - | - | - |
| 74 | V | - | - | - |
| 76 | Y | - | - | - |
| 77 | LG | - | - | - |
| 78 | O | - | - | - |
| 79 | G | - | - | - |
| 80 | P | - | - | - |
| 81 | L | - | - | - |
| 82 | W | - | - | - |
| 83 | BR | - | - | - |
| 84 | B | - | - | - |
| 91 | W | - | - | - |
| 92 | Y | - | - | - |
| 93 | Y | - | - | - |
| 94 | R | - | - | - |
| 95 | V | - | - | - |
| 96 | LG | - | - | - |
| 97 | R | - | - | - |
| 98 | SB | - | - | - |
| 99 | G | - | - | - |
| 100 | P | - | - | - |

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



| | | | |
|--------------|-------|------|-----------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 4 | B | B | - |
| 5 | B | B | - |
| 6 | L | L | - |
| 7 | GR/R | GR/R | - |
| 8 | O | O | - |
| 14 | P | P | - |
| 16 | LG/R | LG/R | - |

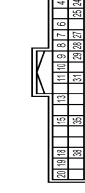
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| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |



| | | | |
|--------------|-------|------|-----------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | O/B | O/B | WASHER (RR) |
| 2 | GR | GR | OUTPUT 4 |
| 3 | RG | RG | WASHER (FR) |
| 4 | W | W | IGN |
| 5 | LY | LY | OUTPUT 3 |
| 6 | B | B | GROUND |
| 7 | W | W | INPUT 3 |
| 8 | BR/W | BR/W | OUTPUT 5 |
| 9 | YL | YL | INPUT 2 |
| 10 | Y/L | Y/L | INPUT 4 |
| 11 | L/O | L/O | INPUT 1 |
| 12 | LR | LR | OUTPUT 1 |
| 13 | LG | LG | INPUT 5 |

| | | |
|----|---|----------|
| 14 | G | OUTPUT 2 |
|----|---|----------|

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



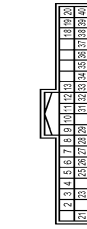
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|--------------|-------|------|--|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | L | L | CAN-H |
| 2 | P | P | CAN-L |
| 3 | V | V | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | L | L | VEHICLE SPEED SIGNAL (PULSE) (Without NAVI) |
| 4 | VR | VR | VEHICLE SPEED SIGNAL (PULSE) (With NAVI) |
| 6 | BRY | BRY | FUEL LEVEL SENSOR SIGNAL |
| 7 | RG | RG | AIR BAG SIGNAL |
| 8 | P | P | OVERDRIVE CONTROL SWITCH SIGNAL |
| 9 | O | O | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SEAT) |
| 10 | SB | SB | PARKING BRAKE SWITCH SIGNAL |
| 11 | GR | GR | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 13 | BR | BR | ILLUMINATION CONTROL SIGNAL |
| 15 | LY | LY | ACC POWER SUPPLY |
| 18 | RY | RY | SECURITY SIGNAL |
| 19 | PU/W | PU/W | AMBIENT SENSOR SIGNAL |
| 20 | R/W | R/W | AMBIENT SENSOR GROUND |
| 21 | B | B | GROUND |
| 22 | B | B | GROUND |
| 23 | B | B | GROUND |
| 24 | PU | PU | FUEL LEVEL SENSOR GROUND |
| 25 | B | B | VDC GROUND |
| 27 | LG/R | LG/R | BATTERY POWER SUPPLY |
| 28 | GR | GR | IGNITION SIGNAL |
| 29 | BR | BR | PASSENGER SEAT BELT WARNING SIGNAL |
| 31 | R | R | ACC AIR-AMP CONNECTION SIGNAL |
| 35 | BR | BR | ENGINE COOLANT TEMPERATURE SIGNAL |
| 38 | GR | GR | ALTERNATOR SIGNAL |

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



| | | | |
|--------------|-------|------|-----------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | B | B | - |
| 2 | L/W | L/W | - |
| 3 | W | W | - |
| 4 | BR | BR | - |

| | |
|----------------|---------------------------|
| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FW-NH |



| | | | |
|--------------|-------|------|-------------------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 2 | BR/W | BR/W | COMBI SW INPUT 5 |
| 3 | GR | GR | COMBI SW INPUT 4 |
| 4 | LY | LY | COMBI SW INPUT 3 |
| 5 | G | G | COMBI SW INPUT 2 |
| 6 | LR | LR | COMBI SW INPUT 1 |
| 7 | W/R | W/R | KEY CYL UNLOCK SW |
| 8 | W/B | W/B | KEY CYL LOCK SW |
| 9 | R | R | STOP LAMP SW |
| 10 | W/L | W/L | REAR WINDOW REEGER SW |
| 11 | LY | LY | ACC POWER SUPPLY |
| 12 | SB | SB | PASSENGER DOOR SW |
| 13 | GR/L | GR/L | REAR RH DOOR SW |
| 18 | V | V | RECEIVER SENSOR GND |
| 19 | BR | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 20 | GY | GY | KEYLESS ENTRY RECEIVER COMM |
| 21 | P/L | P/L | NAVS ANTENNA AMP |

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EXL

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL AND HAZARD WARNING LAMPS

| | | |
|----|-----|-------------------------|
| 23 | RY | SECURITY INDICATOR LAMP |
| 25 | LG | NATS ANTENNA AMP. |
| 26 | GR | THERMO CONTROL AMP. |
| 27 | YG | AC SW |
| 28 | GW | BLOWER FAN SW |
| 29 | LW | HAZARD SW |
| 31 | GY | FR DEFROSTER SW |
| 32 | LG | COMBI SW OUTPUT 5 |
| 33 | YL | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | RL | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | RW | KEY SWITCH |
| 38 | O | IGNITION POWER SUPPLY |
| 39 | L | CANH |
| 40 | P | CANL |



| | |
|----------------|---------------------------|
| Connector No. | M468 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |

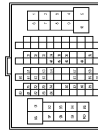
| | |
|----------------|---------------------------|
| Connector No. | M70 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHAG-SA |



| | | |
|--------------|------|-----------------------------|
| Terminal No. | Wire | Signal Name [Specification] |
| 2 | BRW | COMBI SW INPUT 5 |
| 3 | GR | COMBI SW INPUT 4 |
| 4 | LY | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | L/R | COMBI SW INPUT 1 |
| 7 | WR | KEY CYL UNLOCK SW |
| 8 | WB | RE CTL LOCK SW |
| 9 | R | STOP LAMP SW 1 |
| 12 | GR | CENTRAL DOOR LOCK SW |
| 13 | BR | CENTRAL DOOR UNLOCK SW |
| 14 | L/G | OPTICAL SENSOR |
| 15 | WL | REAR WINDOW DEFOGGER SW |
| 17 | R/G | OPTICAL SENSOR POWER SUPPLY |
| 18 | V | SENSOR GND |
| 21 | PL | NATS ANTENNA AMP. |
| 23 | RY | SECURITY INDICATOR LAMP |
| 25 | LG | NATS ANTENNA AMP. |
| 27 | O | AC SW |
| 28 | GW | BLOWER FAN SW |
| 29 | LW | HAZARD SW |
| 31 | G/B | DR DOOR UNLOCK SENSOR |
| 32 | LG | COMBI SW OUTPUT 5 |
| 33 | YL | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | RL | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | G/O | SHIFT P |
| 38 | GY | RECEIVER COMM |
| 39 | L | CANH |
| 40 | P | CANL |



| | | |
|--------------|---------------|---------------------------------|
| Terminal No. | Color Of Wire | Signal Name [Specification] |
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FLSE) |
| 59 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (IGN) |
| 69 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (FL) |



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

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color Of Wire | Signal Name [Specification] |
| 1 | B/O | - |
| 2 | R | - |
| 3 | G/R | - |
| 4 | G/B | - |
| 5 | L | - |
| 6 | L | - |
| 7 | W/R | - |
| 8 | GW | - |

| | | |
|-----|--------|---|
| 9 | Y/L | - |
| 10 | W | - |
| 31 | GR/L | - |
| 32 | L/B | - |
| 33 | RY | - |
| 34 | SB | - |
| 35 | BR | - |
| 36 | G | - |
| 39 | L/R | - |
| 44 | G/O | - |
| 45 | LGR/W | - |
| 46 | GR/W | - |
| 48 | L/O | - |
| 51 | B/W | - |
| 53 | RL | - |
| 54 | O | - |
| 57 | GR | - |
| 59 | Y | - |
| 60 | RW | - |
| 61 | PLW | - |
| 62 | W/L | - |
| 63 | W/B | - |
| 67 | Y/R | - |
| 69 | L/G | - |
| 70 | SHIELD | - |
| 71 | P/B | - |
| 72 | R/G | - |
| 73 | R | - |
| 74 | L/Y | - |
| 76 | W/G | - |
| 77 | GR/R | - |
| 78 | O | - |
| 79 | LG | - |
| 80 | P | - |
| 81 | L | - |
| 82 | GR | - |
| 83 | G/R | - |
| 84 | B | - |
| 91 | R | - |
| 92 | O | - |
| 93 | Y | - |
| 94 | R/B | - |
| 95 | L/W | - |
| 96 | L | - |
| 97 | Y | - |
| 98 | BR/W | - |
| 99 | W | - |
| 100 | GR | - |

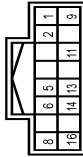
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

TURN SIGNAL AND HAZARD WARNING LAMPS

| | |
|----------------|--------------|
| Connector No. | M800 |
| Connector Name | WIRE TO WIRE |
| Connector Type | THH6FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L/B | - |
| 2 | GR/L | - |
| 3 | W | - |
| 5 | W/L | - |
| 6 | W/L | - |
| 8 | BR/Y | - |
| 9 | R/Y | - |
| 11 | O | - |
| 13 | BR/W | - |
| 14 | W/B | - |
| 16 | W/G | - |

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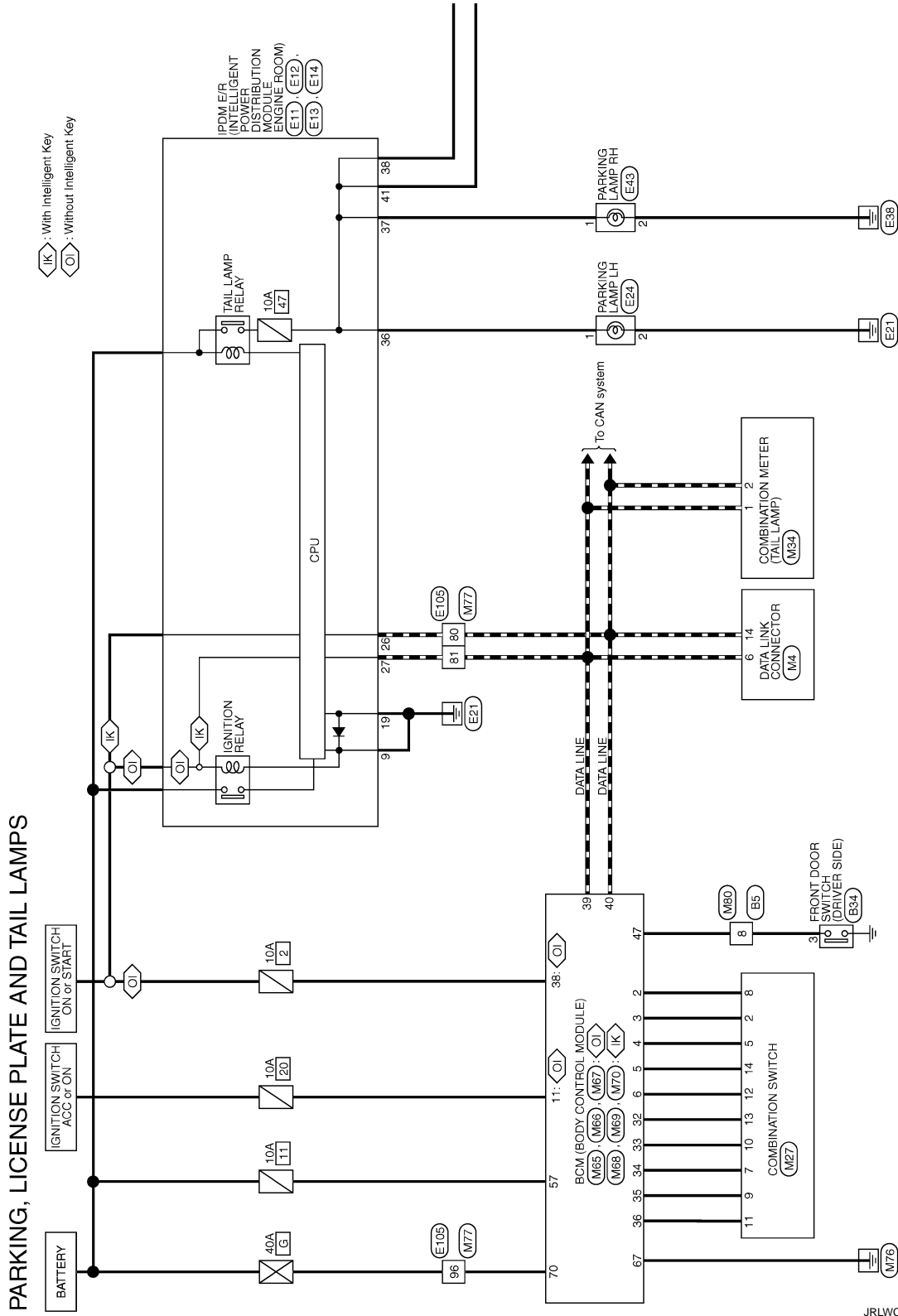
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

Wiring Diagram - PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS -

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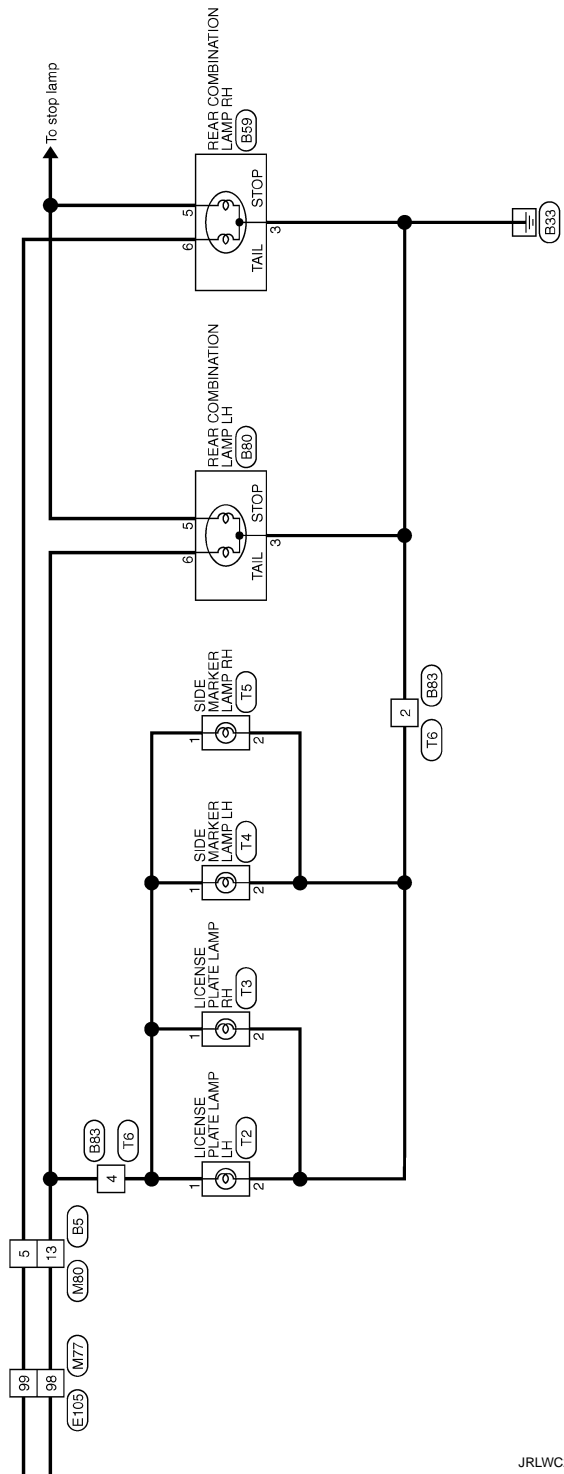


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JRLWC2691GB

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >



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PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS

| | |
|----------------|--------------|
| Connector No. | B5 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH6MW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | GR | - |
| 3 | W | - |
| 4 | W | - |
| 5 | W | - |
| 6 | LG | - |
| 7 | R | - |
| 8 | O | - |
| 9 | GR | - |
| 10 | P | - |
| 11 | W | - |
| 12 | - | - |
| 13 | - | - |
| 14 | - | - |
| 15 | - | - |
| 16 | - | - |

| | |
|----------------|---------------------------------|
| Connector No. | B34 |
| Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Type | TH64FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | LG | - |

| | |
|----------------|--------------------------|
| Connector No. | B59 |
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FB-FR |



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

| | |
|----------------|--------------------------|
| Connector No. | B80 |
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FB-FR |



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

| | |
|----------------|--------------|
| Connector No. | B83 |
| Connector Name | WIRE TO WIRE |
| Connector Type | RH4FB |



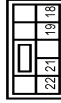
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | B | - |
| 4 | GR | - |

| | |
|----------------|--|
| Connector No. | E11 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | MO6FB-LC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | B/W | - |
| 10 | L | - |
| 13 | W | - |

| | |
|----------------|--|
| Connector No. | E12 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS08FBR-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 18 | Y | - |
| 19 | B/W | - |
| 21 | W | - |
| 22 | V | - |

| | |
|----------------|--|
| Connector No. | E13 |
| Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH2FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24 | G | - |
| 25 | Y | - |
| 26 | P | - |
| 27 | L | - |
| 28 | P | - |
| 30 | SB | - |
| 31 | W | - |
| 33 | O | - |
| 34 | R | - |

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS

| | |
|----------------|--|
| Connector No. | E14 |
| Connector Name | IPDM INTELLENT POWER DIS TRIB/DIM MODULE (ENGINE ROOM) |
| Connector Type | NS12FBR-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36 | O | - |
| 37 | V | - |
| 38 | G | - |
| 39 | V | - |
| 40 | R | - |
| 41 | SB | - |
| 43 | G | - |
| 44 | P | - |
| 45 | Y | - |
| 46 | O | - |



| | |
|----------------|-----------------|
| Connector No. | E24 |
| Connector Name | PARKING LAMP LH |
| Connector Type | RK02FB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 2 | BR | - |

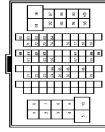
| | |
|----------------|-----------------|
| Connector No. | E13 |
| Connector Name | PARKING LAMP RH |
| Connector Type | RK02FB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | BY | - |



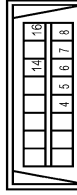
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|----------------|-----------------|
| Connector No. | E105 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | G | - |
| 5 | P | - |
| 6 | L | - [With NAVI] |
| 7 | Y | - [Without NAVI] |
| 8 | O | - |
| 9 | W | - |
| 10 | SB | - |
| 11 | V | - |
| 32 | R | - |
| 33 | GR | - |
| 34 | P | - |
| 35 | Y | - |
| 36 | BR | - |
| 39 | SB | - |

| | | |
|-----|--------|--------------|
| 44 | R | - |
| 45 | V | - |
| 46 | P | - |
| 48 | L | - |
| 51 | B | - [With M/T] |
| 51 | BR | - [With CVT] |
| 53 | SB | - |
| 54 | O | - [With M/T] |
| 54 | W | - [With CVT] |
| 57 | LG | - |
| 59 | L | - |
| 60 | O | - |
| 61 | G | - |
| 62 | W | - |
| 63 | L | - |
| 67 | GR | - [With CVT] |
| 67 | V | - [With M/T] |
| 69 | P | - |
| 70 | SHIELD | - |
| 71 | GR | - |
| 72 | LG | - |
| 73 | P | - |
| 74 | V | - |
| 76 | Y | - |
| 77 | LG | - |
| 78 | O | - |
| 79 | G | - |
| 80 | P | - |
| 81 | L | - |
| 82 | W | - |
| 83 | BR | - |
| 84 | B | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | Y | - |
| 94 | R | - |
| 95 | V | - |
| 96 | LG | - |
| 97 | R | - |
| 98 | SB | - |
| 99 | G | - |
| 100 | P | - |

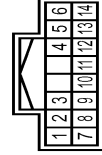
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| Connector No. | M4 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 4 | B | - |
| 5 | B | - |
| 6 | L | - |
| 7 | GR | - |
| 8 | O | - |
| 14 | P | - |
| 16 | LR | - |



| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-LH |



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

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PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS

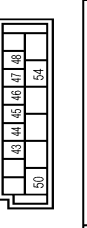
| | | |
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| 14 | G | OUTPUT 2 |
| Connector No. | M34 | |
| Connector Name | COMBINATION METER | |
| Connector Type | TH40FV-NH | |



| | | |
|----------------|---------------------------|--|
| Connector No. | M65 | |
| Connector Name | BCM (BODY CONTROL MODULE) | |
| Connector Type | TH40FV-NH | |



| | | |
|----------------|---------------------------|--|
| Connector No. | M66 | |
| Connector Name | BCM (BODY CONTROL MODULE) | |
| Connector Type | FEA09FV-FHAG-SA | |



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

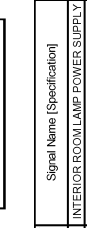


| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | L | CANH |
| 2 | P | CANH |
| 3 | V | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | L | VEHICLE SPEED SIGNAL (8-PULSE) (WITH NAVI) |
| 4 | V/R | VEHICLE SPEED SIGNAL (8-PULSE) (WITH NAVI) |
| 6 | B/Y | FUEL LEVEL SENSOR SIGNAL |
| 7 | R/G | AIR BAG SIGNAL |
| 8 | P | OVERDRIVE CONTROL SWITCH SIGNAL |
| 9 | O | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 10 | S/B | PARKING BRAKE SWITCH SIGNAL |
| 11 | G/R | ILLUMINATION CONTROL SWITCH SIGNAL |
| 13 | B/R | ACC POWER SUPPLY |
| 15 | L/Y | SECURITY SIGNAL |
| 18 | R/Y | SECURITY SIGNAL |
| 19 | P/W | AMBIENT SENSOR SIGNAL |
| 20 | R/W | AMBIENT SENSOR SIGNAL |
| 21 | B | GROUND |
| 22 | B | GROUND |
| 23 | B | GROUND |
| 24 | P/U | FUEL LEVEL SENSOR GROUND |
| 25 | B | VDC GROUND |
| 27 | L/G/R | BATTERY POWER SUPPLY |
| 28 | GR | IGNITION SIGNAL |
| 29 | BR | PASSENGER SEAT BELT WARNING SIGNAL |
| 31 | R | AC/AUTO AMP. CONNECTION RECOGNITION SIGNAL |
| 35 | BR | ENGINE COOLANT TEMPERATURE SIGNAL |
| 38 | GR | ALTERNATOR SIGNAL |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------------|
| 2 | BR/W | COMBI SW INPUT 5 |
| 3 | GR | COMBI SW INPUT 4 |
| 4 | L/Y | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | L/R | COMBI SW INPUT 1 |
| 7 | W/R | KEY CYL UNLOCK SW |
| 8 | W/B | KEY CYL LOCK SW |
| 9 | R | STOP LAMP SW 1 |
| 10 | W/L | REAR WINDOW DEFROGGER SW |
| 11 | L/Y | ACC POWER SUPPLY |
| 12 | S/B | PASSENGER DOOR SW |
| 13 | GR/L | REAR RH DOOR SW |
| 18 | V | RECEIVER SENSOR GND |
| 19 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| 20 | G/Y | KEYLESS ENTRY RECEIVER COMM |
| 21 | P/L | NATS ANTENNA AMP. |
| 23 | R/Y | SECURITY INDICATOR LAMP |
| 25 | L/G | NATS ANTENNA AMP. |
| 26 | GR | THERMO CONTROL AMP. |
| 27 | Y/G | A/C SW |
| 28 | G/W | BLOWER FAN SW |
| 29 | L/W | HAZARD SW |
| 31 | G/Y | FR DEFROSTER SW |
| 32 | L/G | COMBI SW OUTPUT 5 |
| 33 | Y/L | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | R/L | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | R/W | KEY SWITCH |
| 38 | O | IGNITION POWER SUPPLY |
| 39 | L | CANH |
| 40 | P | CANH |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | W | BACK DOOR SW |
| 44 | L/G | REAR WIPER STOP POSITION |
| 45 | GR | CENTRAL DOOR LOCK SW |
| 46 | BR | CENTRAL DOOR UNLOCK SW |
| 47 | B/Y | DRIVER DOOR SW |
| 48 | W/G | REAR LH DOOR SW |
| 50 | S/B | A/C INDICATOR OUTPUT |
| 54 | L/G | REAR WIPER OUTPUT |

| | | |
|----------------|---------------------------|--|
| Connector No. | M67 | |
| Connector Name | BCM (BODY CONTROL MODULE) | |
| Connector Type | FEA09FV-FHAG-SA | |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | BR/W | COMBI SW INPUT 5 |
| 3 | GR | COMBI SW INPUT 4 |
| 4 | L/Y | COMBI SW INPUT 3 |
| 5 | G | COMBI SW INPUT 2 |
| 6 | L/R | COMBI SW INPUT 1 |
| 7 | W/R | KEY CYL UNLOCK SW |
| 8 | W/B | KEY CYL LOCK SW |
| 9 | R | STOP LAMP SW 1 |
| 12 | GR | CENTRAL DOOR LOCK SW |
| 13 | BR | CENTRAL DOOR UNLOCK SW |
| 14 | L/G | OPTICAL SENSOR |
| 15 | W/L | REAR WINDOW DEFROGGER SW |
| 17 | R/G | OPTICAL SENSOR POWER SUPPLY |
| 18 | V | SENSOR GND |
| 21 | P/L | NATS ANTENNA AMP. |
| 23 | R/Y | SECURITY INDICATOR LAMP |
| 25 | L/G | NATS ANTENNA AMP. |
| 27 | O | A/C SW |
| 28 | G/W | BLOWER FAN SW |
| 29 | L/W | HAZARD SW |
| 31 | G/B | DR DOOR UNLOCK SENSOR |
| 32 | L/G | COMBI SW OUTPUT 5 |
| 33 | Y/L | COMBI SW OUTPUT 4 |
| 34 | W | COMBI SW OUTPUT 3 |
| 35 | R/L | COMBI SW OUTPUT 2 |
| 36 | L/O | COMBI SW OUTPUT 1 |
| 37 | G/O | SHIFT P |
| 38 | G/Y | RECEIVER COMM |
| 39 | L | CANH |
| 40 | P | CANH |

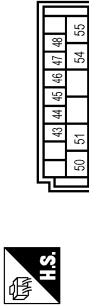
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (FUSE) |
| 59 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | G | PASSENGER LOCK REAR DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (GS) |
| 69 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (F/L) |

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

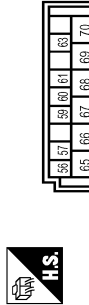
PARKING, LICENSE PLATE AND TAIL LAMPS

| | |
|----------------|---------------------------|
| Connector No. | M69 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FB-FH4G-SA |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 43 | W | BACK DOOR SW |
| 44 | LG | REAR WIPER STOP POSITION |
| 45 | SB | PASSENGER DOOR SW |
| 46 | CS/L | REAR LH DOOR SW |
| 47 | BR/Y | DRIVER DOOR SW |
| 48 | W/G | REAR LH DOOR SW |
| 50 | R/W | BK DR LOCK ACT RELAY CONT |
| 51 | W | BACK DOOR REQUEST SW |
| 54 | LG | REAR WIPER OUTPUT |
| 55 | G | REAR DOOR UNLOCK OUTPUT |

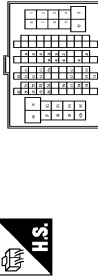
| | |
|----------------|---------------------------|
| Connector No. | M70 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FH4G-SA |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---------------------------------|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (E/L) |
| 59 | G | PASSENGER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (IGN) |

| | | |
|----|---|---------------------------------|
| 70 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (E/L) |

| | |
|----------------|-----------------|
| Connector No. | M77 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FM-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BO | |
| 2 | R | |
| 3 | GR | |
| 4 | G/B | |
| 5 | L | |
| 6 | L | |
| 7 | W/R | |
| 8 | GW | |
| 9 | Y/L | |
| 10 | W | |
| 31 | GR/L | |
| 32 | L/B | |
| 33 | R/Y | |
| 34 | SB | |
| 35 | BR | |
| 36 | G | |
| 39 | L/R | |
| 44 | G/O | |
| 45 | LG/R | |
| 46 | GR/W | |
| 48 | L/O | |
| 51 | B/W | |
| 53 | R/L | |
| 54 | O | |
| 57 | GR | |
| 59 | V | |
| 60 | R/W | |
| 61 | P/W | |
| 62 | W/L | |
| 63 | W/B | |
| 67 | Y/R | |
| 69 | LG | |

| | |
|----------------|--------------|
| Connector No. | M80 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH18FM-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L/B | |
| 2 | GR/L | |
| 5 | W | |
| 6 | W/L | |
| 8 | BR/Y | |
| 9 | R/Y | |
| 11 | G | |
| 13 | BR/W | |
| 14 | W/B | |
| 16 | W/G | |

| | |
|----------------|-----------------------|
| Connector No. | T2 |
| Connector Name | LICENSE PLATE LAMP LH |
| Connector Type | RK02FBR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | |
| 2 | B | |

| | |
|----------------|-----------------------|
| Connector No. | T3 |
| Connector Name | LICENSE PLATE LAMP RH |
| Connector Type | RK02FBR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | |
| 2 | B | |

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PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

PARKING, LICENSE PLATE AND TAIL LAMPS

| | |
|----------------|---------------------|
| Connector No. | T4 |
| Connector Name | SIDE MARKER LAMP LH |
| Connector Type | HS02FG-W |



| | |
|----------------|--------------|
| Connector No. | T6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | RHM4MB |



| Terminal Color Of Wire No. | Signal Name [Specification] |
|----------------------------|-----------------------------|
| 1 GR | - |
| 2 B | - |

| Terminal Color Of Wire No. | Signal Name [Specification] |
|----------------------------|-----------------------------|
| 2 B | - |
| 4 GR | - |

| | |
|----------------|---------------------|
| Connector No. | T5 |
| Connector Name | SIDE MARKER LAMP RH |
| Connector Type | HS02FG-W |



| Terminal Color Of Wire No. | Signal Name [Specification] |
|----------------------------|-----------------------------|
| 1 GR | - |
| 2 B | - |

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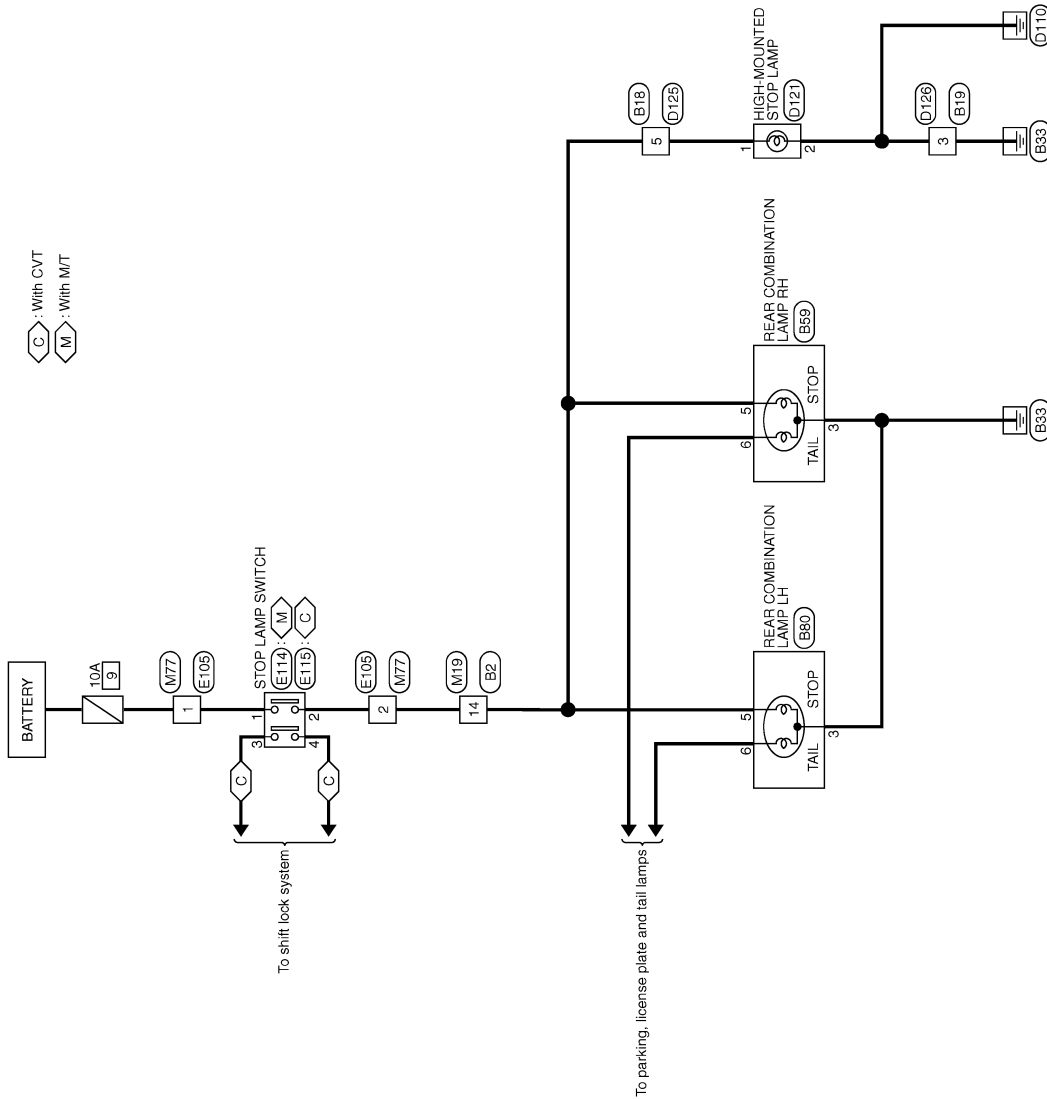
STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

STOP LAMP

Wiring Diagram - STOP LAMP -

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STOP LAMP

2010/10/14

JCLWM6413GB

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STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

STOP LAMP

| | |
|----------------|--------------|
| Connector No. | B2 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |



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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 5 | O | - |
| 6 | R | - |
| 7 | L | - |
| 8 | L | - |
| 9 | O | - |
| 10 | V | - |
| 11 | P | - |
| 12 | LG | - |
| 14 | R | - |
| 15 | Y | - |
| 16 | B | - |

| | |
|----------------|--------------|
| Connector No. | B18 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NH10MW-CS10 |



| | | | |
|----|----|----|----|
| 1 | 3 | 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 | - |
| 3 | BR | - |
| 5 | R | - |
| 6 | P | - |
| 7 | B | - [MM] Intelligent Key |
| 8 | C | - [Without Intelligent Key] |
| | SHIELD | - |

| | | |
|----|----|---|
| 9 | B | - |
| 10 | Y | - |
| 11 | G | - |
| 12 | W | - |
| 13 | R | - |
| 14 | Y | - |
| 15 | O | - |
| 16 | L | - |
| 17 | R | - |
| 18 | BR | - |
| 20 | LG | - |

| | |
|----------------|--------------|
| Connector No. | B19 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M04MW-LC |



| | |
|---|---|
| 1 | 2 |
| 3 | |

| | | |
|--------------|---------------|-----------------------------|
| Terminal No. | Color Of Wire | Signal Name [Specification] |
| 1 | R | - |
| 3 | B | - |

| | |
|----------------|--------------------------|
| Connector No. | B59 |
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS06FB-FR |



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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 3 | B | - |
| 4 | W | - |
| 5 | R | - |

| | | |
|---|---|---|
| 6 | V | - |
|---|---|---|

| | |
|----------------|--------------------------|
| Connector No. | B80 |
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS06FB-FR |



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

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

| | |
|----------------|------------------------|
| Connector No. | D121 |
| Connector Name | HIGH-MOUNTED STOP LAMP |
| Connector Type | HS02FG-W |



| | |
|---|---|
| 1 | 2 |
|---|---|

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | GR | - |
| 2 | B | - |

| | |
|----------------|--------------|
| Connector No. | D125 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NH10FW-CS10 |



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

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 3 | SB | - |
| 5 | GR | - |
| 6 | GR | - |
| 7 | GR | - |
| 8 | SHIELD | - |
| 9 | L | - |
| 10 | Y | - |
| 11 | G | - |
| 12 | BR | - |
| 13 | R | - |
| 14 | Y | - |
| 15 | W | - |
| 16 | L | - |
| 17 | R | - |
| 18 | BR | - |
| 20 | LG | - |

| | |
|----------------|--------------|
| Connector No. | D126 |
| Connector Name | WIRE TO WIRE |
| Connector Type | M04FW-LC |



| | |
|---|---|
| 1 | 3 |
|---|---|

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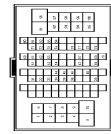
STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

STOP LAMP

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 3 | B | - |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | G | - |
| 5 | P | - |
| 6 | L | - [With NAV] |
| 7 | Y | - [Without NAV] |
| 8 | O | - |
| 9 | W | - |
| 10 | SB | - |
| 31 | V | - |
| 32 | R | - |
| 33 | GR | - |
| 34 | P | - |
| 35 | Y | - |
| 36 | BR | - |
| 39 | SB | - |
| 44 | R | - |
| 45 | V | - |
| 46 | P | - |
| 48 | L | - |
| 51 | B | - [With M/T] |
| 51 | BR | - [With CVT] |
| 53 | SB | - |
| 64 | O | - [With M/T] |
| 64 | W | - [With CVT] |
| 57 | LG | - |
| 59 | L | - |
| 60 | O | - |

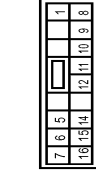
| | | |
|-----|--------|--------------|
| 61 | G | - |
| 62 | W | - |
| 63 | L | - |
| 67 | GR | - [With CVT] |
| 67 | V | - [With M/T] |
| 69 | P | - |
| 70 | SHIELD | - |
| 71 | GR | - |
| 72 | LG | - |
| 73 | P | - |
| 74 | V | - |
| 76 | Y | - |
| 77 | LG | - |
| 78 | O | - |
| 79 | G | - |
| 80 | P | - |
| 81 | L | - |
| 82 | W | - |
| 83 | BR | - |
| 84 | B | - |
| 91 | W | - |
| 92 | Y | - |
| 93 | Y | - |
| 94 | R | - |
| 95 | V | - |
| 96 | LG | - |
| 97 | R | - |
| 98 | SB | - |
| 99 | G | - |
| 100 | P | - |

| | |
|----------------|------------------|
| Connector No. | E115 |
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M04FW-LC |



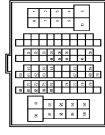
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | O | - |
| 4 | G | - |

| | |
|----------------|--------------|
| Connector No. | M19 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-GS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 5 | L/R | - |
| 6 | R | - |
| 7 | L | - |
| 8 | R/B | - |
| 9 | G | - |
| 10 | V | - |
| 11 | L/W | - |
| 12 | LG | - |
| 14 | R | - |
| 15 | Y/R | - |
| 16 | BR | - |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/O | - |
| 2 | R | - |
| 3 | G/B | - |
| 4 | G/B | - |
| 6 | L | - |
| 6 | L | - |
| 7 | W/R | - |
| 8 | G/W | - |
| 9 | Y/L | - |
| 10 | W | - |
| 31 | GR/L | - |
| 32 | L/B | - |
| 33 | R/Y | - |
| 34 | SB | - |
| 35 | BR | - |
| 36 | G | - |
| 39 | L/R | - |
| 44 | G/O | - |
| 45 | LG/R | - |
| 46 | GR/W | - |
| 48 | L/O | - |
| 51 | B/W | - |
| 53 | R/L | - |
| 54 | O | - |
| 57 | GR | - |
| 59 | V | - |
| 60 | R/W | - |
| 61 | PL/W | - |
| 62 | W/L | - |
| 63 | W/B | - |
| 67 | Y/R | - |
| 69 | LG | - |
| 70 | SHIELD | - |
| 71 | P/B | - |
| 72 | R/G | - |
| 73 | R | - |

| | |
|----------------|------------------|
| Connector No. | E114 |
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M02FB-LC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |

JRLWD0817GB

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STOP LAMP

< DTC/CIRCUIT DIAGNOSIS >

| STOP LAMP | |
|-----------|------|
| 74 | L/Y |
| 76 | W/G |
| 77 | GR/R |
| 78 | O |
| 79 | LG |
| 80 | P |
| 81 | L |
| 82 | GR |
| 83 | G/R |
| 84 | B |
| 91 | R |
| 92 | O |
| 93 | Y |
| 94 | R/B |
| 95 | L/W |
| 96 | Y |
| 97 | L |
| 98 | BR/W |
| 99 | W |
| 100 | G/R |

JRLWD0818GB

BACK-UP LAMP

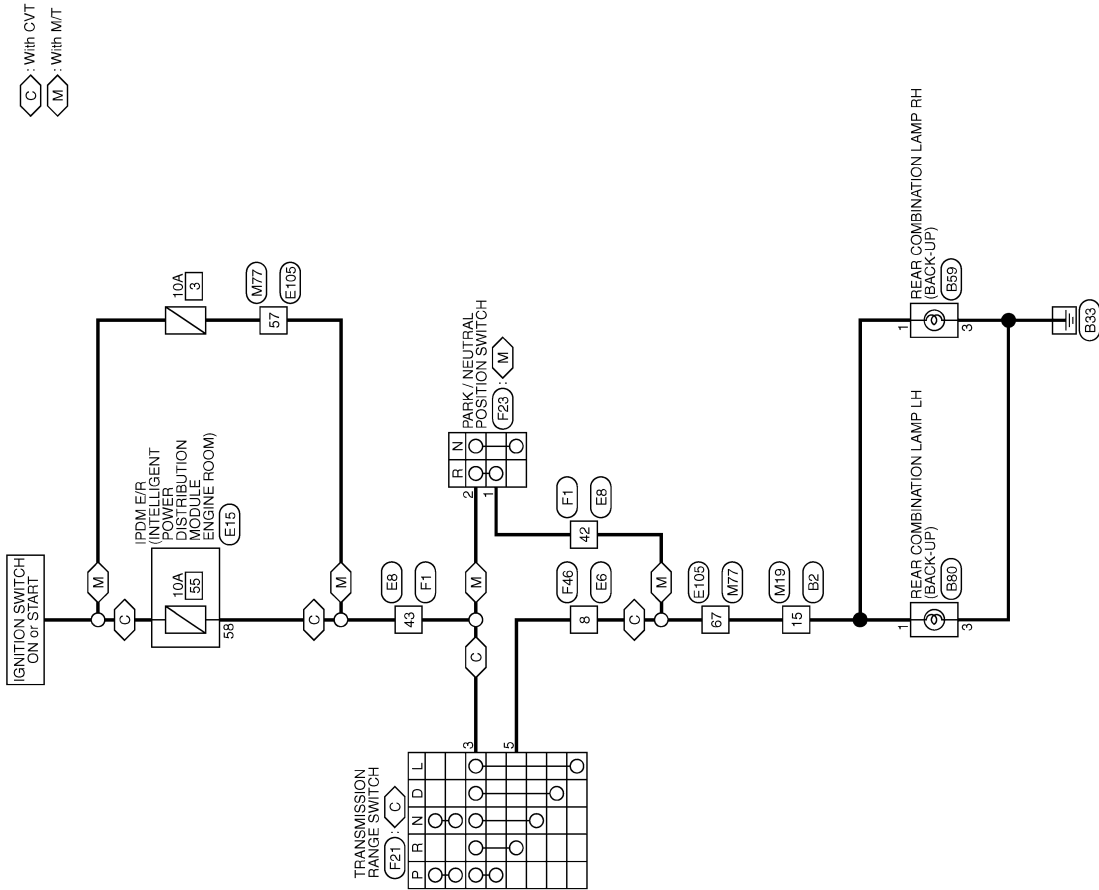
< DTC/CIRCUIT DIAGNOSIS >

BACK-UP LAMP

Wiring Diagram - BACK-UP LAMP -

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BACK-UP LAMP



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JCLWM3511GB

BACK-UP LAMP

< DTC/CIRCUIT DIAGNOSIS >

BACK-UP LAMP

| | |
|----------------|--------------|
| Connector No. | B2 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MV-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 5 | O | - |
| 6 | R | - |
| 7 | L | - |
| 8 | L | - |
| 9 | G | - |
| 10 | V | - |
| 11 | P | - |
| 12 | LG | - |
| 14 | R | - |
| 15 | Y | - |
| 16 | B | - |

| | |
|----------------|--------------------------|
| Connector No. | B50 |
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FB-FR |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | Y | - |
| 3 | B | - |
| 4 | W | - |
| 5 | R | - |
| 6 | V | - |

| | |
|----------------|--------------------------|
| Connector No. | B80 |
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FB-FR |



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

| | |
|----------------|--------------|
| Connector No. | E6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | RHT2FB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | BR | - |
| 3 | P | - |
| 4 | V | - |
| 5 | LG | - |
| 6 | R | - |
| 7 | SB | - |
| 8 | GR | - |
| 9 | LG | - |
| 10 | R | - |
| 11 | W | - |

| | |
|----------------|-------------------|
| Connector No. | E8 |
| Connector Name | WIRE TO WIRE |
| Connector Type | SAA36MB-RS10-SJ22 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | BR | - |
| 2 | LG | - |
| 3 | Y | - |
| 4 | W | - |
| 7 | Y | - |
| 8 | SB | - |
| 9 | L | - |
| 10 | V | - |
| 11 | P | - |
| 12 | BR | - |
| 13 | LG | - |
| 14 | Y | - |
| 15 | SB | - |
| 16 | L | - |
| 17 | W | - |
| 18 | O | - |
| 21 | G | - |
| 22 | Y | - |
| 23 | SB | - |
| 24 | W | - |
| 25 | BR | - |
| 26 | BY | - |
| 27 | GR | - |
| 28 | P | - |
| 29 | V | - |
| 30 | G | - |
| 31 | G | - |
| 32 | O | - |
| 33 | W | - |
| 34 | Y | - |
| 35 | V | - |
| 36 | P | - |
| 37 | LG | - |
| 38 | SB | - |
| 39 | SB | - |
| 40 | GR | - |

| | | |
|----|----|--------------|
| 41 | O | - |
| 42 | V | - |
| 43 | LG | - [With M/T] |
| 43 | R | - [With CVT] |
| 44 | R | - |
| 46 | W | - |
| 47 | G | - |
| 48 | BR | - |

| | |
|----------------|---|
| Connector No. | E15 |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS18FW-CS |



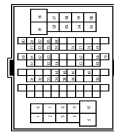
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 47 | BR | - |
| 49 | W | - |
| 50 | GR | - |
| 51 | R | - |
| 52 | P | - |
| 54 | GR | - |
| 55 | P | - |
| 56 | SB | - |
| 57 | G | - |
| 58 | LG | - [With M/T] |
| 58 | R | - [With CVT] |
| 59 | Y | - |
| 60 | V | - |
| 61 | W | - |
| 62 | L | - |

BACK-UP LAMP

< DTC/CIRCUIT DIAGNOSIS >

BACK-UP LAMP

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 2 | W | - |
| 3 | SB | - |
| 4 | G | - |
| 5 | P | - |
| 6 | L | - [With NAVI] |
| 7 | R | - [Without NAVI] |
| 8 | Y | - |
| 9 | W | - |
| 10 | SB | - |
| 31 | V | - |
| 32 | R | - |
| 33 | GR | - |
| 34 | P | - |
| 35 | Y | - |
| 36 | BR | - |
| 39 | SB | - |
| 44 | R | - |
| 45 | V | - |
| 46 | P | - |
| 48 | L | - |
| 51 | B | - [With M/T] |
| 51 | BR | - [With CVT] |
| 53 | SB | - |
| 54 | O | - [With M/T] |
| 54 | W | - [With CVT] |
| 57 | LG | - |
| 59 | L | - |
| 60 | O | - |
| 61 | G | - |
| 62 | W | - |
| 63 | L | - |
| 67 | GR | - [With CVT] |
| 67 | V | - [With M/T] |
| 69 | P | - |

| Terminal No. | SHIELD |
|--------------|--------|
| 70 | SHIELD |
| 71 | GR |
| 72 | LG |
| 73 | P |
| 74 | V |
| 76 | Y |
| 77 | LG |
| 78 | O |
| 79 | G |
| 80 | P |
| 81 | L |
| 82 | W |
| 83 | BR |
| 84 | B |
| 91 | W |
| 92 | Y |
| 93 | Y |
| 94 | R |
| 95 | V |
| 96 | LG |
| 97 | R |
| 98 | SB |
| 99 | G |
| 100 | P |

| | |
|----------------|-----------------|
| Connector No. | F1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | SAA36FRS10-SJ22 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | SB | - |
| 2 | LG | - |
| 3 | R | - |
| 4 | V | - |
| 7 | V | - |
| 8 | G | - |
| 9 | SB | - |
| 10 | L | - |
| 11 | Y | - |
| 12 | GR | - |

| | | |
|----|----|---|
| 13 | BR | - |
| 14 | G | - |
| 15 | W | - |
| 16 | Y | - |
| 17 | P | - |
| 18 | BR | - |
| 21 | G | - |
| 22 | L | - |
| 23 | W | - |
| 24 | R | - |
| 25 | R | - |
| 26 | B | - |
| 27 | SB | - |
| 28 | V | - |
| 29 | V | - |
| 30 | BR | - |
| 31 | GR | - |
| 32 | BR | - |
| 33 | W | - |
| 34 | LG | - |
| 35 | V | - |
| 36 | Y | - |
| 37 | W | - |
| 39 | G | - |
| 40 | P | - |
| 41 | O | - |
| 42 | G | - |
| 43 | R | - |
| 44 | P | - |
| 46 | GR | - |
| 47 | Y | - |
| 48 | BR | - |

| | |
|----------------|---------------------------|
| Connector No. | F21 |
| Connector Name | TRANSMISSION RANGE SWITCH |
| Connector Type | FK08FG |



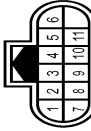
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | W | - |
| 3 | R | - |
| 4 | GR | - |
| 5 | SB | - |
| 6 | W | - |
| 7 | Y | - |
| 8 | G | - |

| | |
|----------------|--------------------------------|
| Connector No. | F23 |
| Connector Name | PARK / NEUTRAL POSITION SWITCH |
| Connector Type | FEA03FG |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | R | - |
| 3 | L | - |

| | |
|----------------|--------------|
| Connector No. | F46 |
| Connector Name | WIRE TO WIRE |
| Connector Type | RHT2MB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | O | - |
| 3 | L | - |
| 4 | V | - |
| 5 | BR | - |

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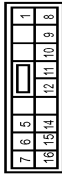
BACK-UP LAMP

< DTC/CIRCUIT DIAGNOSIS >

BACK-UP LAMP

| | | |
|----|----|---|
| 6 | LG | - |
| 7 | Y | - |
| 8 | SB | - |
| 9 | W | - |
| 10 | R | - |
| 11 | G | - |

| | |
|----------------|--------------|
| Connector No. | M19 |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | V | - |
| 5 | L/R | - |
| 6 | R | - |
| 7 | L | - |
| 8 | R/B | - |
| 9 | G | - |
| 10 | V | - |
| 11 | L/W | - |
| 12 | LG | - |
| 14 | R | - |
| 15 | Y/R | - |
| 16 | B/R | - |

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



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B/O | - |
| 2 | R | - |
| 3 | G/R | - |
| 4 | G/B | - |
| 5 | L | - |
| 6 | L | - |
| 7 | W/R | - |
| 8 | G/W | - |
| 9 | Y/L | - |
| 10 | W | - |
| 31 | GR/L | - |
| 32 | L/B | - |
| 33 | R/Y | - |
| 34 | SB | - |
| 35 | BR | - |
| 36 | G | - |
| 39 | L/R | - |
| 44 | G/O | - |
| 45 | LG/R | - |
| 46 | GR/W | - |
| 48 | L/O | - |
| 51 | B/W | - |
| 53 | R/L | - |
| 54 | O | - |
| 57 | GR | - |
| 59 | V | - |
| 60 | R/W | - |
| 61 | PL/W | - |
| 62 | W/L | - |
| 63 | W/B | - |
| 67 | Y/R | - |
| 69 | LG | - |
| 70 | SHIELD | - |
| 71 | P/B | - |
| 72 | R/G | - |
| 73 | R | - |

| | | |
|-----|------|---|
| 74 | L/Y | - |
| 76 | W/G | - |
| 77 | GR/R | - |
| 78 | O | - |
| 79 | LG | - |
| 80 | P | - |
| 81 | L | - |
| 82 | GR | - |
| 83 | G/R | - |
| 84 | B | - |
| 91 | R | - |
| 92 | O | - |
| 93 | Y | - |
| 94 | R/B | - |
| 95 | L/W | - |
| 96 | Y | - |
| 97 | L | - |
| 98 | BR/W | - |
| 99 | W | - |
| 100 | G/R | - |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

WITH INTELLIGENT KEY

WITH INTELLIGENT KEY : Reference Value

INFOID:000000010249353

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

| Monitor Item | Condition | Value/Status |
|----------------|---|----------------------------------|
| FR WIPER HI | Other than front wiper switch HI | Off |
| | Front wiper switch HI | On |
| FR WIPER LOW | Other than front wiper switch LO | Off |
| | Front wiper switch LO | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | Front washer switch ON | On |
| FR WIPER INT | Other than front wiper switch INT | Off |
| | Front wiper switch INT | On |
| FR WIPER STOP | Front wiper is not in STOP position | Off |
| | Front wiper is in STOP position | On |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | Wiper intermittent dial position |
| RR WIPER ON | Other than rear wiper switch ON | Off |
| | Rear wiper switch ON | On |
| RR WIPER INT | Other than rear wiper switch INT | Off |
| | Rear wiper switch INT | On |
| RR WASHER SW | Rear washer switch OFF | Off |
| | Rear washer switch ON | On |
| RR WIPER STOP | Rear wiper is in STOP position | Off |
| | Rear wiper is not in STOP position | On |
| TURN SIGNAL R | Other than turn signal switch RH | Off |
| | Turn signal switch RH | On |
| TURN SIGNAL L | Other than turn signal switch LH | Off |
| | Turn signal switch LH | On |
| TAIL LAMP SW | Other than lighting switch 1ST and 2ND | Off |
| | Lighting switch 1ST or 2ND | On |
| HI BEAM SW | Other than lighting switch HI | Off |
| | Lighting switch HI | On |
| HEAD LAMP SW 1 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| HEAD LAMP SW 2 | Other than lighting switch 2ND | Off |
| | Lighting switch 2ND | On |
| PASSING SW | Other than lighting switch PASS | Off |
| | Lighting switch PASS | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|---------------|--|--------------|
| AUTO LIGHT SW | Other than lighting switch AUTO | Off |
| | Lighting switch AUTO | On |
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| DOOR SW-DR | Driver door closed | Off |
| | Driver door opened | On |
| DOOR SW-AS | Passenger door closed | Off |
| | Passenger door opened | On |
| DOOR SW-RR | Rear RH door closed | Off |
| | Rear RH door opened | On |
| DOOR SW-RL | Rear LH door closed | Off |
| | Rear LH door opened | On |
| DOOR SW-BK | Back door closed | Off |
| | Back door opened | On |
| CDL LOCK SW | Other than power door lock switch LOCK | Off |
| | Power door lock switch LOCK | On |
| CDL UNLOCK SW | Other than power door lock switch UNLOCK | Off |
| | Power door lock switch UNLOCK | On |
| KEY CYL LK-SW | Other than driver door key cylinder LOCK position | Off |
| | Driver door key cylinder LOCK position | On |
| KEY CYL UN-SW | Other than driver door key cylinder UNLOCK position | Off |
| | Driver door key cylinder UNLOCK position | On |
| HAZARD SW | Hazard switch is OFF | Off |
| | Hazard switch is ON | On |
| REAR DEF SW | Rear window defogger switch OFF | Off |
| | Rear window defogger switch ON | On |
| TR/BD OPEN SW | NOTE: The item is indicated, but not monitored. | Off |
| TRNK/HAT MNTR | NOTE: The item is indicated, but not monitored. | Off |
| FAN ON SIG | Blower fan OFF | Off |
| | Blower fan ON | On |
| AIR COND SW | Air conditioner OFF (A/C switch indicator OFF) | Off |
| | Air conditioner ON (A/C switch indicator ON) | On |
| RKE-LOCK | LOCK button of the key is not pressed | Off |
| | LOCK button of the key is pressed | On |
| RKE-UNLOCK | UNLOCK button of the key is not pressed | Off |
| | UNLOCK button of the key is pressed | On |
| RKE-TR/BD | BACK DOOR OPEN button of the key is not pressed | Off |
| | BACK DOOR OPEN button of the key is pressed | On |
| RKE-PANIC | PANIC button of the key is not pressed | Off |
| | PANIC button of the key is pressed | On |
| RKE-MODE CHG | LOCK/UNLOCK button of the key is not pressed and held simultaneously | Off |
| | LOCK/UNLOCK button of the key is pressed and held simultaneously | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|-----------------|--|-----------------|-----|
| OPTI SEN (DTCT) | Bright outside of the vehicle | Close to 5 V | A |
| | Dark outside of the vehicle | Close to 0 V | |
| OPTI SEN (FILT) | Bright outside of the vehicle (Lighting switch AUTO) | Close to 5 V | B |
| | Dark outside of the vehicle (Lighting switch AUTO) | Close to 1.50 V | |
| OPTICAL SENSOR | NOTE: The item is indicated, but not monitored. | Off | C |
| RAIN SENSOR | NOTE: The item is indicated, but not monitored. | Off | |
| REQ SW -DR | Driver door request switch is not pressed | Off | D |
| | Driver door request switch is pressed | On | |
| REQ SW -AS | Passenger door request switch is not pressed | Off | E |
| | Passenger door request switch is pressed | On | |
| REQ SW -RR | NOTE: The item is indicated, but not monitored. | Off | F |
| REQ SW -RL | NOTE: The item is indicated, but not monitored. | Off | |
| REQ SW -BD/TR | Back door request switch is not pressed | Off | G |
| | Back door request switch is pressed | On | |
| PUSH SW | Push-button ignition switch (push switch) is not pressed | Off | H |
| | Push-button ignition switch (push switch) is pressed | On | |
| CLUCH SW | The clutch pedal is not depressed. | Off | I |
| | The clutch pedal is depressed | On | |
| BRAKE SW 1 | The brake pedal is not depressed | Off | J |
| | The brake pedal is depressed | On | |
| BRAKE SW 2 | The brake pedal is depressed when No. 9 fuse is blown | Off | K |
| | The brake pedal is not depressed when No. 9 fuse is blown, or No. 9 fuse is normal | On | |
| DETE/CANCL SW | Selector lever in P position | Off | |
| | Selector lever in any position other than P | On | |
| SFT PN/N SW | Selector lever in any position other than P and N | Off | EXL |
| | Selector lever in P or N position | On | |
| S/L -LOCK | NOTE: The item is indicated, but not monitored. | Off | M |
| S/L -UNLOCK | NOTE: The item is indicated, but not monitored. | Off | |
| S/L RELAY-F/B | NOTE: The item is indicated, but not monitored. | Off | N |
| UNLK SEN -DR | Driver door is locked | Off | O |
| | Driver door is unlocked | On | |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is not pressed | Off | P |
| | Push-button ignition switch (push-switch) is pressed | On | |
| IGN RLY1 -F/B | Ignition switch in OFF or ACC position | Off | |
| | Ignition switch in ON position | On | |
| DETE SW -IPDM | Selector lever in any position other than P | Off | |
| | Selector lever in P position | On | |
| SFT PN -IPDM | Selector lever in any position other than P and N | Off | |
| | Selector lever in P or N position | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|----------------|--|-----------------------------------|
| SFT P -MET | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SFT N -MET | Selector lever in any position other than N | Off |
| | Selector lever in N position | On |
| ENGINE STATE | Engine stopped | Stop |
| | While the engine stalls | Stall |
| | At engine cranking | Crank |
| | Engine running | Run |
| S/L LOCK-IPDM | NOTE: The item is indicated, but not monitored. | Off |
| S/L UNLK-IPDM | NOTE: The item is indicated, but not monitored. | Off |
| S/L RELAY-REQ | NOTE: The item is indicated, but not monitored. | Off |
| VEH SPEED 1 | While driving | Equivalent to speedometer reading |
| VEH SPEED 2 | While driving | Equivalent to speedometer reading |
| DOOR STAT-DR | Driver door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Driver door is unlocked | UNLOCK |
| DOOR STAT-AS | Passenger door is locked | LOCK |
| | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Passenger door is unlocked | UNLOCK |
| ID OK FLAG | Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models) | Reset |
| | Ignition switch ON | Set |
| PRMT ENG STRT | The engine start is prohibited | Reset |
| | The engine start is permitted | Set |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | Reset |
| RKE OPE COUN1 | During the operation of the key | Operation frequency of the key |
| RKE OPE COUN2 | NOTE: The item is indicated, but not monitored. | — |
| CONFIRM ID ALL | The key ID that the key slot receives is not recognized by any key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by any key ID registered to BCM. | Done |
| CONFIRM ID4 | The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. | Done |
| CONFIRM ID3 | The key ID that the key slot receives is not recognized by the third key ID registered to BCM. | Yet |
| | The key ID that the key slot receives is recognized by the third key ID registered to BCM. | Done |

BCM (BODY CONTROL MODULE)

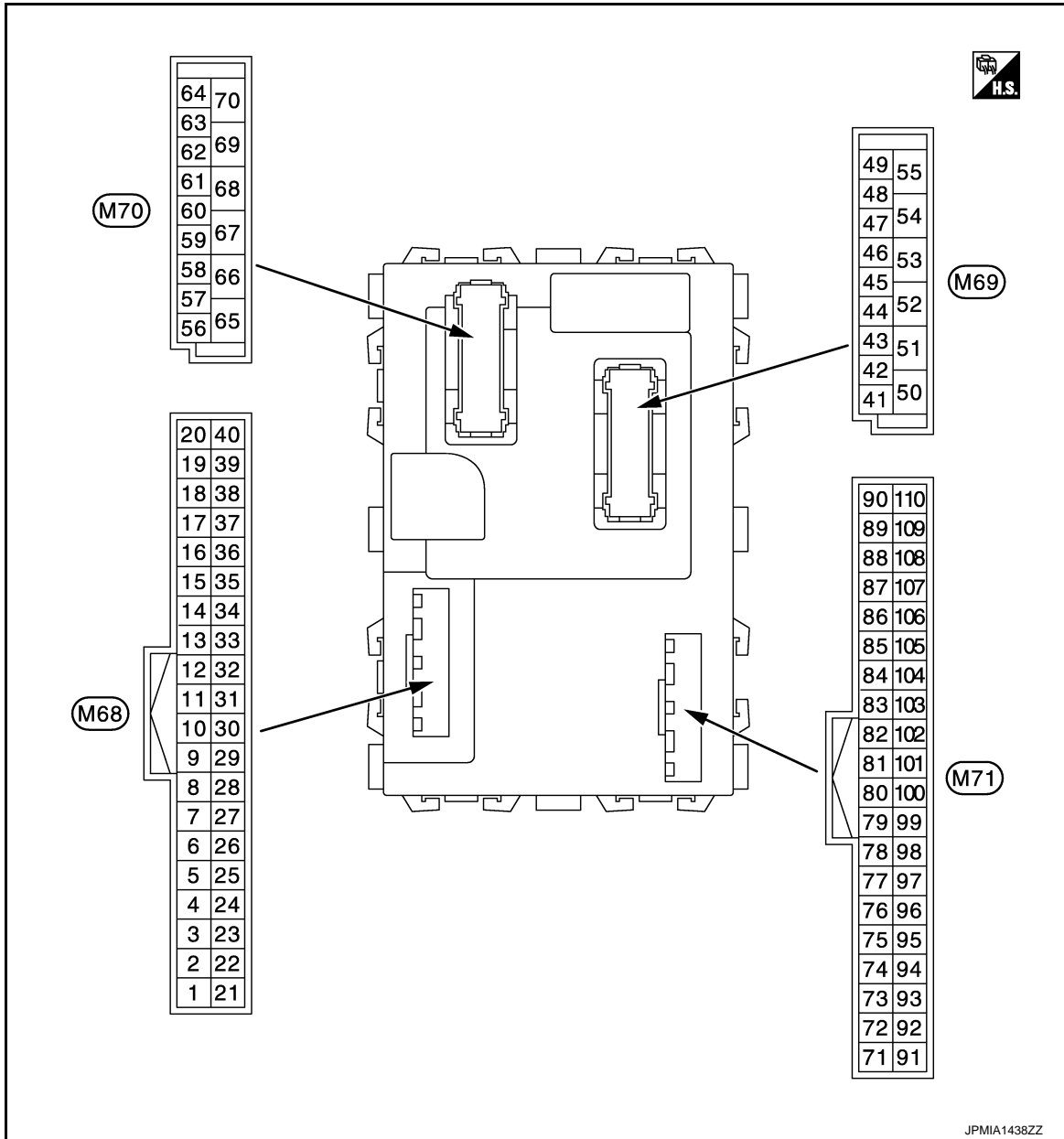
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|---|-------------------------------|-----|
| CONFIRM ID2 | The key ID that the key slot receives is not recognized by the second key ID registered to BCM. | Yet | A |
| | The key ID that the key slot receives is recognized by the second key ID registered to BCM. | Done | B |
| CONFIRM ID1 | The key ID that the key slot receives is not recognized by the first key ID registered to BCM. | Yet | C |
| | The key ID that the key slot receives is recognized by the first key ID registered to BCM. | Done | |
| NOT REGISTERED | BCM detects registered key ID, or BCM does not detect key ID. | ID OK | D |
| | BCM detects non-registration key ID. | ID NG | |
| TP 4 | The ID of fourth key is not registered to BCM | Yet | E |
| | The ID of fourth key is registered to BCM | Done | |
| TP 3 | The ID of third key is not registered to BCM | Yet | F |
| | The ID of third key is registered to BCM | Done | |
| TP 2 | The ID of second key is not registered to BCM | Yet | G |
| | The ID of second key is registered to BCM | Done | |
| TP 1 | The ID of first key is not registered to BCM | Yet | H |
| | The ID of first key is registered to BCM | Done | |
| AIR PRESS FL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front LH tire | I |
| AIR PRESS FR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of front RH tire | J |
| AIR PRESS RR | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear RH tire | K |
| AIR PRESS RL | Ignition switch ON (Only when the signal from the transmitter is received) | Air pressure of rear LH tire | EXL |
| 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 | M |
| WARNING LAMP | Tire pressure indicator OFF | Off | |
| | Tire pressure indicator ON | On | |
| BUZZER | Tire pressure warning alarm is not sounding | Off | N |
| | Tire pressure warning alarm is sounding | On | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



NOTE:

- Connector color
- M68, M70: Black
- M69, M71: White

PHYSICAL VALUES

BCM (BODY CONTROL MODULE)

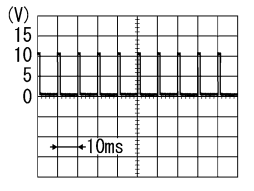
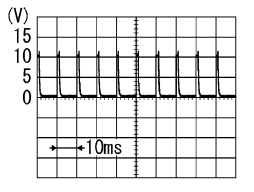
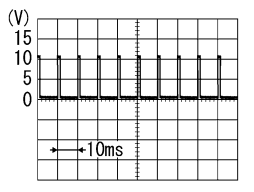
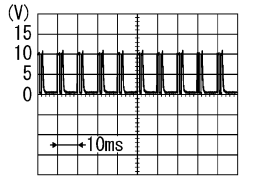
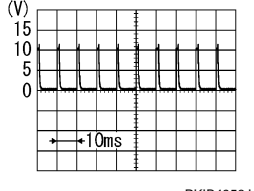
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|---|--------------------------|-----|
| + | - | Signal name | Input/ Output | | | |
| 2 (BR/W) | 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 | |
| | | | | | Lighting switch 2ND | |
| 3 (GR) | 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 | |
| | | | | | Front fog lamp switch ON | |
| 4 (L/Y) | Ground | Combination switch INPUT 3 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V |
| | | | | | Front wiper switch LO | |
| | | | | | Front wiper switch MIST | |
| | | | | | Front wiper switch INT | |
| | | | | | Lighting switch AUTO | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

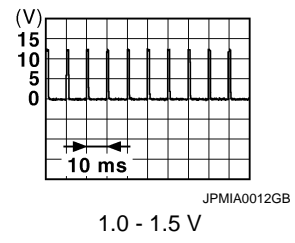
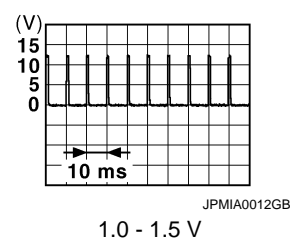
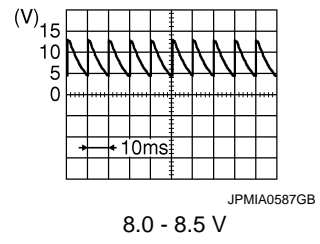
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|--|--|
| + | - | Signal name | Input/ Output | | | |
| 5 (G) | Ground | Combination switch INPUT 2 | Input | 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 (L/R) | 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 1 • Wiper intermittent dial 2 |  1.9 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 |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---------------------------------------|------------------|-------------------------------------|---------------------------------------|
| + | - | Signal name | Input/ Output | | |
| 7 (W/R) | Ground | Door key cylinder switch UNLOCK | Input | Door key cylinder switch | NEUTRAL position |
| | | | | UNLOCK position | 8.0 - 8.5 V |
| 8 (W/B) | Ground | Door key cylinder switch LOCK | Input | Door key cylinder switch | NEUTRAL position |
| | | | | LOCK position | 12 V |
| 9 (R) | Ground | Stop lamp switch 1 | Input | Stop lamp switch | OFF (Brake pedal is not depressed) |
| | | | | ON (Brake pedal is de- pressed) | 0 V |
| 12 (GR) | Ground | Door lock and unlock switch LOCK | Input | Door lock and unlock switch | NEUTRAL position |
| | | | | LOCK position | Battery voltage |
| 13 (BR) | Ground | Door lock and unlock switch UNLOCK | Input | Door lock and unlock switch | NEUTRAL position |
| | | | | UNLOCK position | 0 V |
| 14 (L/G) | Ground | Optical sensor | Input | Ignition switch ON | When bright outside of the vehicle |
| | | | | When dark outside of the vehicle | Close to 5 V |
| 15 (W/L) | Ground | Rear window defog- ger switch | Input | Rear window defogger switch | Not pressed |
| | | | | Pressed | Close to 0 V |
| 17 (R/G) | Ground | Optical sensor pow- er supply | Output | Ignition switch | OFF, ACC |
| | | | | ON | 0 V |

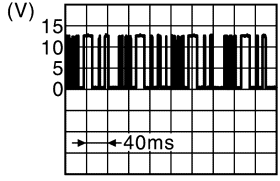
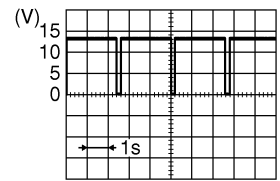
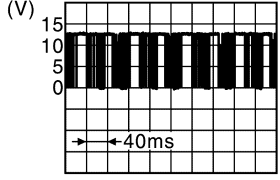
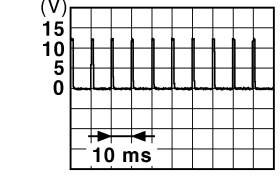
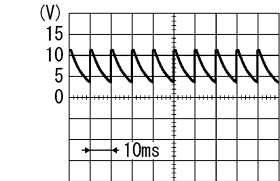
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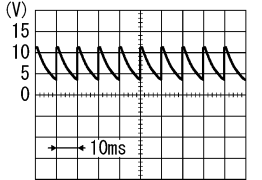
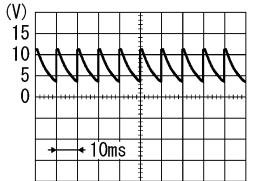
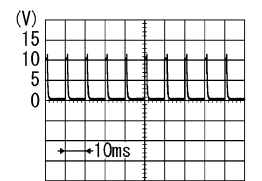
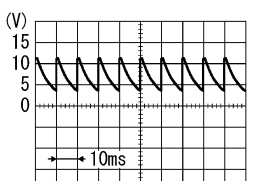
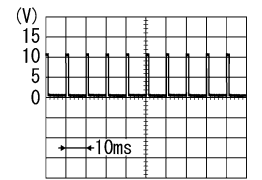
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| 18 (V) | Ground | Sensor ground | Input | Ignition switch ON | 0 V |
| 21 (P/L) | Ground | NATS antenna amp. | Input/ Output | Intelligent Key: Intelligent Key battery is re- moved | Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed  |
| | | | | Brake pedal: Not de- pressed | 12 V |
| 23 (R/Y) | Ground | Security indicator lamp | Output | ON | 0 V |
| | | | | Security indica- tor | Blinking (Ignition switch OFF)  |
| 25 (LG) | Ground | NATS antenna amp. | Input/ Output | During waiting | Brake pedal: Depressed NOTE: Waveform varies each time when brake pedal is depressed  |
| | | | | Brake pedal: Not de- pressed | 12 V |
| 27 (O) | Ground | A/C ON | Input | A/C | OFF (A/C switch indicator: OFF)  |
| | | | | ON (A/C switch indicator: ON) | 1.0 - 1.5 V |
| 28 (G/W) | Ground | Blower fan switch | Input | Fan switch | Blower fan switch OFF 0 V |
| | | | | Blower fan switch ON |  |
| | | | | | 7.0 - 8.0 V |

BCM (BODY CONTROL MODULE)

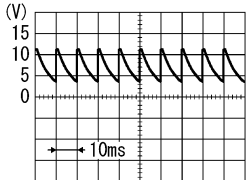
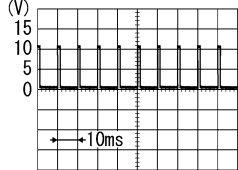
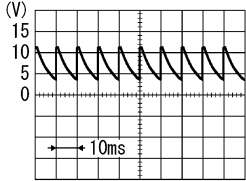
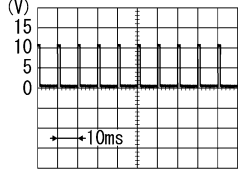
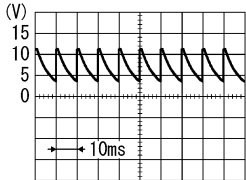
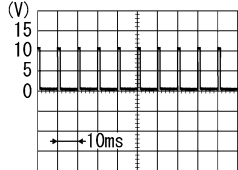
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|---|---|
| + | - | Signal name | Input/ Output | | |
| 29 (L/W) | Ground | Hazard switch | Input | Hazard switch | OFF 12 V |
| | | | | ON | 0 V |
| 31 (G/B) | Ground | Front door lock as- sembly driver side (Unlock sensor) | Input | Driver door | LOCK status (Unlock sen- sor switch OFF)  7.0 - 8.0 V |
| | | | | UNLOCK status (Unlock sensor switch ON) | 0 V |
| 32 (LG) | Ground | Combination switch OUTPUT 5 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4)  7.0 - 8.0 V |
| | | | | Front fog lamp switch ON (Wiper intermittent dial 4) | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  1.0 V |
| | | | | Rear wiper switch ON (Wiper intermittent dial 4) | |
| 33 (Y/L) | Ground | Combination switch OUTPUT 4 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4)  7.0 - 8.0 V |
| | | | | Lighting switch 1ST (Wiper intermittent dial 4) | Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6  1.2 V |
| | | | | Lighting switch AUTO (Wiper intermittent dial 4) | |
| | | | | Rear wiper switch INT (Wiper intermittent dial 4) | |

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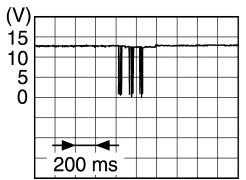
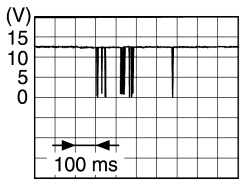
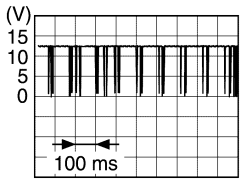
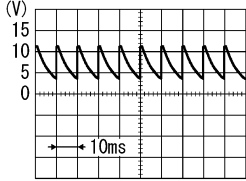
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|---|--------|--------------------------------|------------------|---|--|--|
| + | - | Signal name | Input/ Output | | | |
| 34 (W) | Ground | Combination switch OUTPUT 3 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <small>PKIB4960J</small> 7.0 - 8.0 V |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  <small>PKIB4958J</small> 1.2 V |
| | | | | | 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 | | | | | | |
| 35 (R/L) | Ground | Combination switch OUTPUT 2 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  <small>PKIB4960J</small> 7.0 - 8.0 V |
| | | | | | Lighting switch 2ND |  <small>PKIB4958J</small> 1.2 V |
| | | | | | Lighting switch PASS | |
| | | | | | Front wiper switch INT | |
| Front wiper switch HI | | | | | | |
| 36 (L/O) | Ground | Combination switch OUTPUT 1 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  <small>PKIB4960J</small> 7.0 - 8.0 V |
| | | | | | Turn signal switch RH |  <small>PKIB4958J</small> 1.2 V |
| | | | | | Turn signal switch LH | |
| | | | | | Front wiper switch LO (Front wiper switch MIST) | |
| Front washer switch ON | | | | | | |

BCM (BODY CONTROL MODULE)

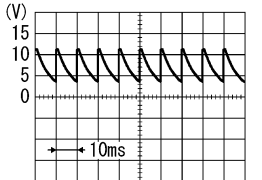
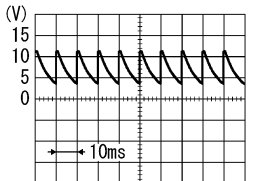
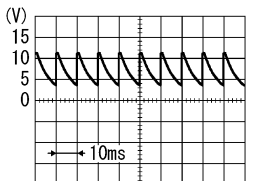
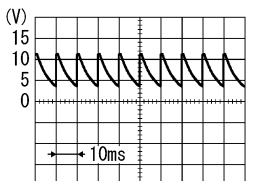
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|----------------------------------|------------------|---|---|---|
| + | - | Signal name | Input/ Output | | | |
| 37 (G/O) | Ground | Selector lever P position switch | Input | Selector lever | P position | 0 V |
| | | | | | Any position other than P | 12 V |
| 38 (G/Y) | Ground | Receiver communication | Input/ Output | Ignition switch OFF (Remote keyless entry communication) | Waiting | 12 V |
| | | | | | When operating either button on Intelligent Key |  |
| | | | | Ignition switch ON (TPMS communication) | Waiting |  |
| | | | | | When receiving signal from tire pressure sensor |  |
| 39 (L) | Ground | CAN-H | Input/ Output | — | — | |
| 40 (P) | Ground | CAN-L | Input/ Output | — | — | |
| 43 (W) | Ground | Back door switch | Input | Back door switch | OFF (When back door closed) |  |
| | | | | | ON (When back door opened) | 9.5 - 10.0 V |
| 44 (LG) | Ground | Rear wiper stop position | Input | Ignition switch ON | Rear wiper stop position | 12 V |
| | | | | | Any position other than rear wiper stop position | 0 V |

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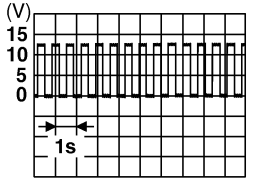
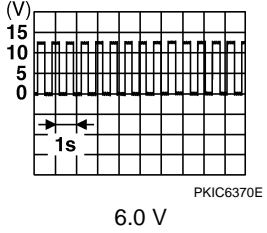
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---------------------------------------|------------------|--------------------------|----------------------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 45 (SB) | Ground | Passenger door switch | Input | Passenger door switch | OFF (When passenger door closed) |  7.0 - 8.0 V |
| | | | | Passenger door switch | ON (When passenger door opened) | 0 V |
| 46 (GR/L) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (When rear RH door closed) |  7.0 - 8.0 V |
| | | | | Rear RH door switch | ON (When rear RH door opened) | 0 V |
| 47 (BR/Y) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closed) |  7.0 - 8.0 V |
| | | | | Driver door switch | ON (When driver door opened) | 0 V |
| 48 (W/G) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (When rear LH door closed) |  7.0 - 8.0 V |
| | | | | Rear LH door switch | ON (When rear door LH opened) | 0 V |
| 50 (R/W) | Ground | Back door lock actuator relay control | Output | Back door | LOCK (Actuator is activated) | 0 V |
| | | | | | Back door | Other than LOCK (Actuator is not activated) |
| 51 (W) | Ground | Back door request switch | Input | Back door request switch | ON (Pressed) | 0 V |
| | | | | | Back door request switch | OFF (Not pressed) |
| 54 (LG) | Ground | Rear wiper | Output | Rear wiper | OFF (Stopped) | 0 V |
| | | | | | Rear wiper | ON (Activated) |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

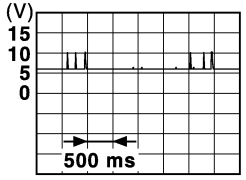
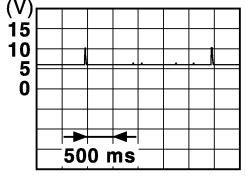
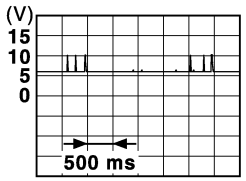
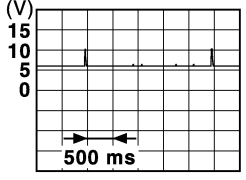
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|-----------------------------------|------------------|---------------------|---|---|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 55 (G) | Ground | Rear door UNLOCK | Output | Rear door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 56 (L) | Ground | Interior room lamp power supply | Output | | Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply) | 0 V |
| | | | | | Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply) | 12 V |
| 57 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | | Battery voltage |
| 59 (G) | Ground | Passenger door UNLOCK | Output | Passenger door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 60 (W/B) | Ground | Turn signal LH | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch LH |  |
| 61 (W/L) | Ground | Turn signal RH | Output | Ignition switch ON | Turn signal switch OFF | 0 V |
| | | | | | Turn signal switch RH |  |
| 63 (BR) | Ground | Interior room lamp control signal | Output | Interior room lamp | OFF | 12 V |
| | | | | | ON | 0 V |
| 65 (V) | Ground | All doors LOCK | Output | All doors | LOCK (Actuator is activated) | 12 V |
| | | | | | Other than LOCK (Actuator is not activated) | 0 V |
| 66 (L/B) | Ground | Driver door UNLOCK | Output | Driver door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |
| 67 (B) | Ground | Ground | Output | Ignition switch ON | | 0 V |
| 68 (L) | Ground | P/W power supply (IGN) | Output | Ignition switch ON | | 12 V |
| 69 (P) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | | 12 V |

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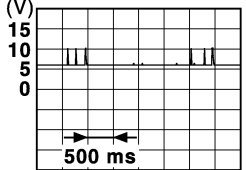
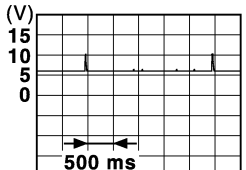
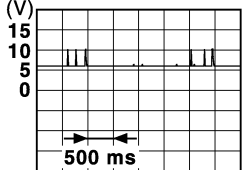
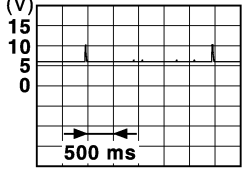
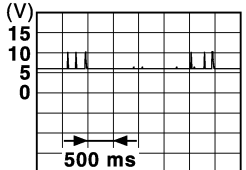
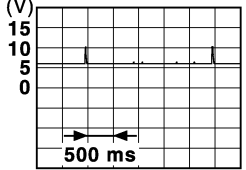
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|---|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | | |
| 70 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage | |
| 72 (SB) | Ground | A/C indicator | Output | A/C indicator | OFF | 12 V |
| | | | | | ON | 0 V |
| 75 (SB) | Ground | Driver door request switch | Input | Driver door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) | 12 V |
| 76 (L/O) | Ground | Push-button ignition switch (push switch) | Input | Push-button ignition switch (push switch) | Pressed | 0 V |
| | | | | | Not pressed | 12 V |
| 78 (LG) | Ground | Driver door antenna (+) | Output | When the driver door request switch is operated with ignition switch ON | When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m) |  <p style="text-align: right; font-size: small;">JMKIA5954GB</p> |
| | | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <p style="text-align: right; font-size: small;">JMKIA5955GB</p> |
| 79 (V) | Ground | Driver door antenna (-) | Output | When the driver door request switch is operated with ignition switch ON | When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m) |  <p style="text-align: right; font-size: small;">JMKIA5954GB</p> |
| | | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <p style="text-align: right; font-size: small;">JMKIA5955GB</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

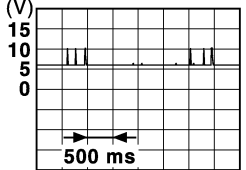
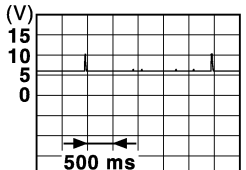
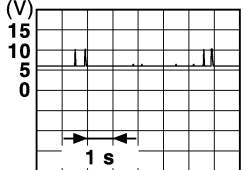
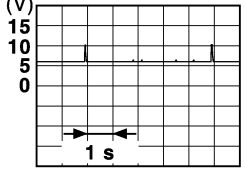
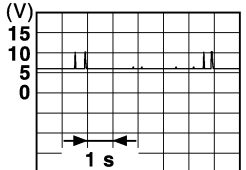
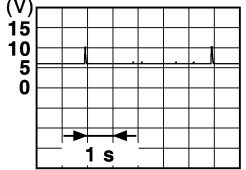
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|----------------------------|------------------|--|--|
| | | Signal name | Input/ Output | | |
| + | - | | | | |
| 80 (BR/Y) | Ground | Passenger door antenna (+) | Output | When the passenger door request switch is operated with ignition switch ON | When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)  <small>JMKIA5954GB</small> |
| | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <small>JMKIA5955GB</small> |
| 81 (L/Y) | Ground | Passenger door antenna (-) | Output | When the passenger door request switch is operated with ignition switch ON | When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)  <small>JMKIA5954GB</small> |
| | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <small>JMKIA5955GB</small> |
| 82 (W/B) | Ground | Back door antenna (+) | Output | When the back door request switch is operated with ignition switch ON | When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)  <small>JMKIA5954GB</small> |
| | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <small>JMKIA5955GB</small> |

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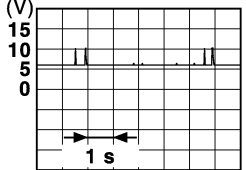
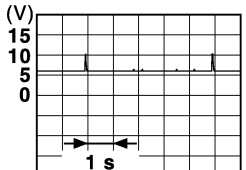
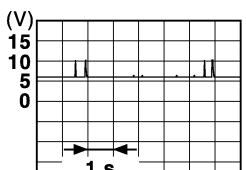
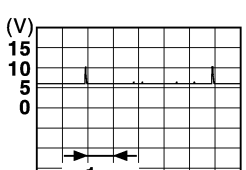
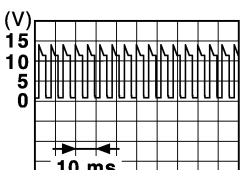
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| 83 (B/W) | Ground | Back door antenna (-) | Output | When the back door request switch is operated with ignition switch ON | <p>When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)</p>  <p style="text-align: right; font-size: small;">JMKIA5954GB</p> |
| | | | | When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less) |  <p style="text-align: right; font-size: small;">JMKIA5955GB</p> |
| 84 (Y/G) | Ground | Room antenna (+) (Instrument center) | Output | Ignition switch ON | <p>When Intelligent Key is not in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA5951GB</p> |
| | | | | When Intelligent Key is in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA3839GB</p> |
| 85 (Y/L) | Ground | Room antenna (-) (Instrument center) | Output | Ignition switch ON | <p>When Intelligent Key is not in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA5951GB</p> |
| | | | | When Intelligent Key is in the antenna detection area |  <p style="text-align: right; font-size: small;">JMKIA3839GB</p> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

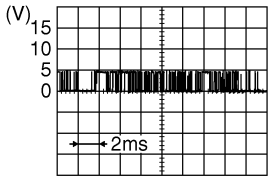
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| 86 (P) | Ground | Luggage room antenna (+) | Output | Ignition switch ON | When Intelligent Key is not in the antenna detection area  <small>JMKIA5951GB</small> |
| | | | | Ignition switch ON | When Intelligent Key is in the antenna detection area  <small>JMKIA3839GB</small> |
| 87 (L) | Ground | Luggage room antenna (-) | Output | Ignition switch ON | When Intelligent Key is not in the antenna detection area  <small>JMKIA5951GB</small> |
| | | | | Ignition switch ON | When Intelligent Key is in the antenna detection area  <small>JMKIA3839GB</small> |
| 90 (W/L) | Ground | Push-button ignition switch illumination | Output | Push-button ignition switch illumination | ON 12 V OFF 0 V |
| 91 (Y) | Ground | ACC/ON indicator lamp | Output | Ignition switch | OFF Battery voltage |
| | | | | Ignition switch | ACC or ON 0.5 V |
| 92 (BR/R) | Ground | Push-button ignition switch illumination ground | Output | Tail lamp | OFF 0 V |
| | | | | Tail lamp | ON NOTE: When the illumination brightening/dimming level is in the neutral position  <small>JPMIA1554GB</small> 6.0 - 7.0 V |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

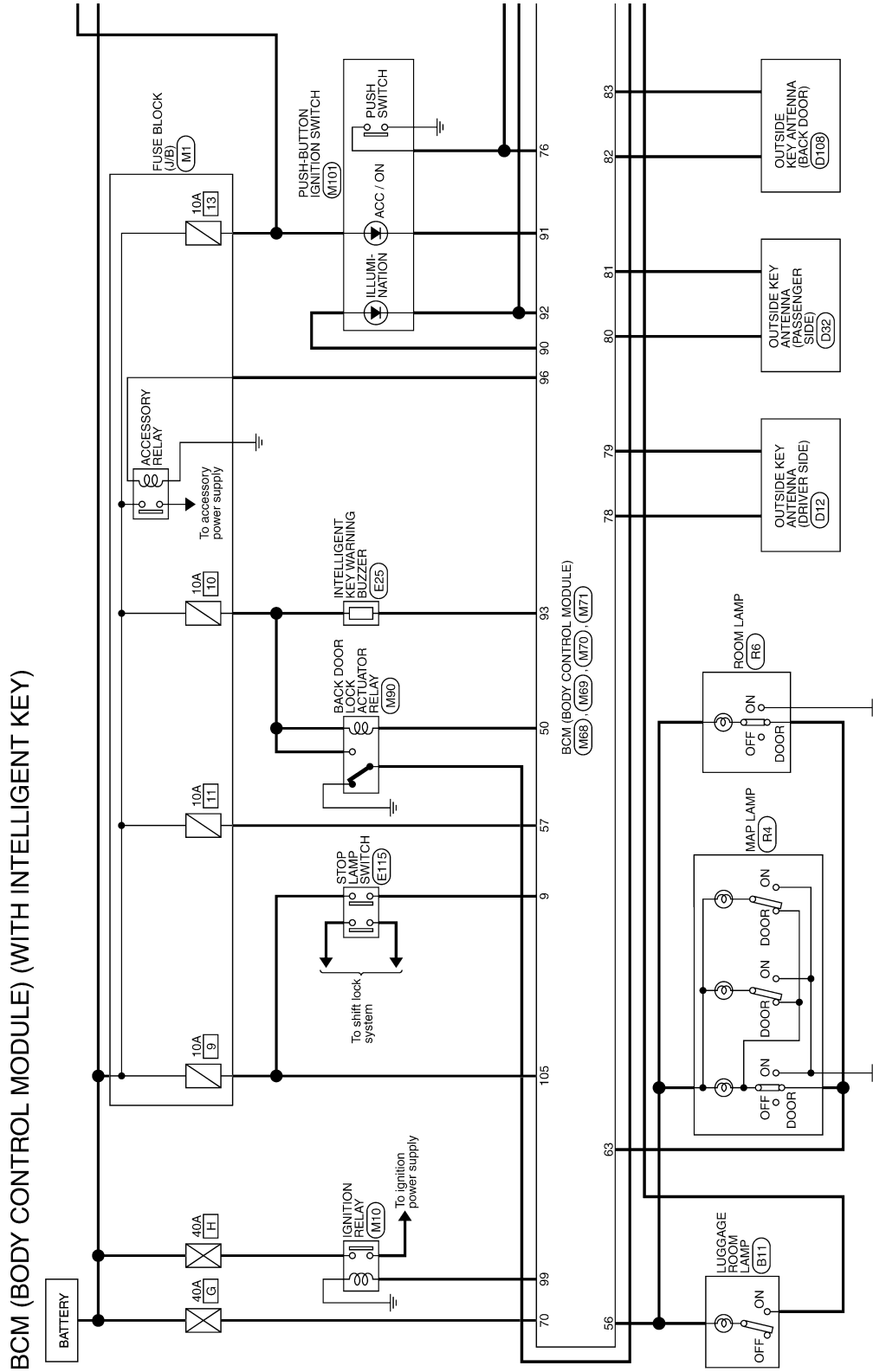
| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|-----------------------------------|--|--|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 93 (GR/W) | Ground | Intelligent Key warn- ing buzzer | Output | Intelligent Key warning buzzer | Sounding | 0 V |
| | | | | | Not sounding | 12 V |
| 96 (BR/W) | Ground | ACC relay control | Output | Ignition switch | OFF | 0 V |
| | | | | | ACC or ON | 12 V |
| 97 (L/R) | Ground | Starter relay control | Output | Ignition switch ON | When selector lever is in P or N position | Battery voltage |
| | | | | | When selector lever is not in P or N position | 0 V |
| 98 (BR) | Ground | Ignition relay (IPDM E/R) control | Output | Ignition switch | OFF or ACC | 12 V |
| | | | | | ON | 0 V |
| 99 (W/R) | Ground | Ignition relay control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | 12 V |
| 100 (G) | Ground | Passenger door re- quest switch | Input | Passenger door request switch | ON (Pressed) | 0 V |
| | | | | | OFF (Not pressed) | 12 V |
| 102 (G) | Ground | Selector lever P/N position | Input | Selector lever | P or N position | Battery voltage |
| | | | | | Except P and N positions | 0 V |
| 103 (G/Y) | Ground | Front defroster switch | Input | Ignition switch ON | A/C mode defroster ON position | 0 V |
| | | | | | Other than A/C mode de- froster ON position |  <p style="text-align: right; font-size: small;">JPMIA0589GB 8.0 - 9.0 V</p> |
| 104 (Y/R) | Ground | CVT shift selector (detention switch) power supply | Output | Ignition switch ON | | 12 V |
| 105 (B/O) | Ground | Stop lamp switch 2 | Input | Ignition switch OFF | | Battery voltage |
| 106 (Y/B) | Ground | Blower fan motor re- lay control | Output | Ignition switch | OFF or ACC | 0 V |
| | | | | | ON | 12 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

WITH INTELLIGENT KEY : Wiring Diagram - BCM -

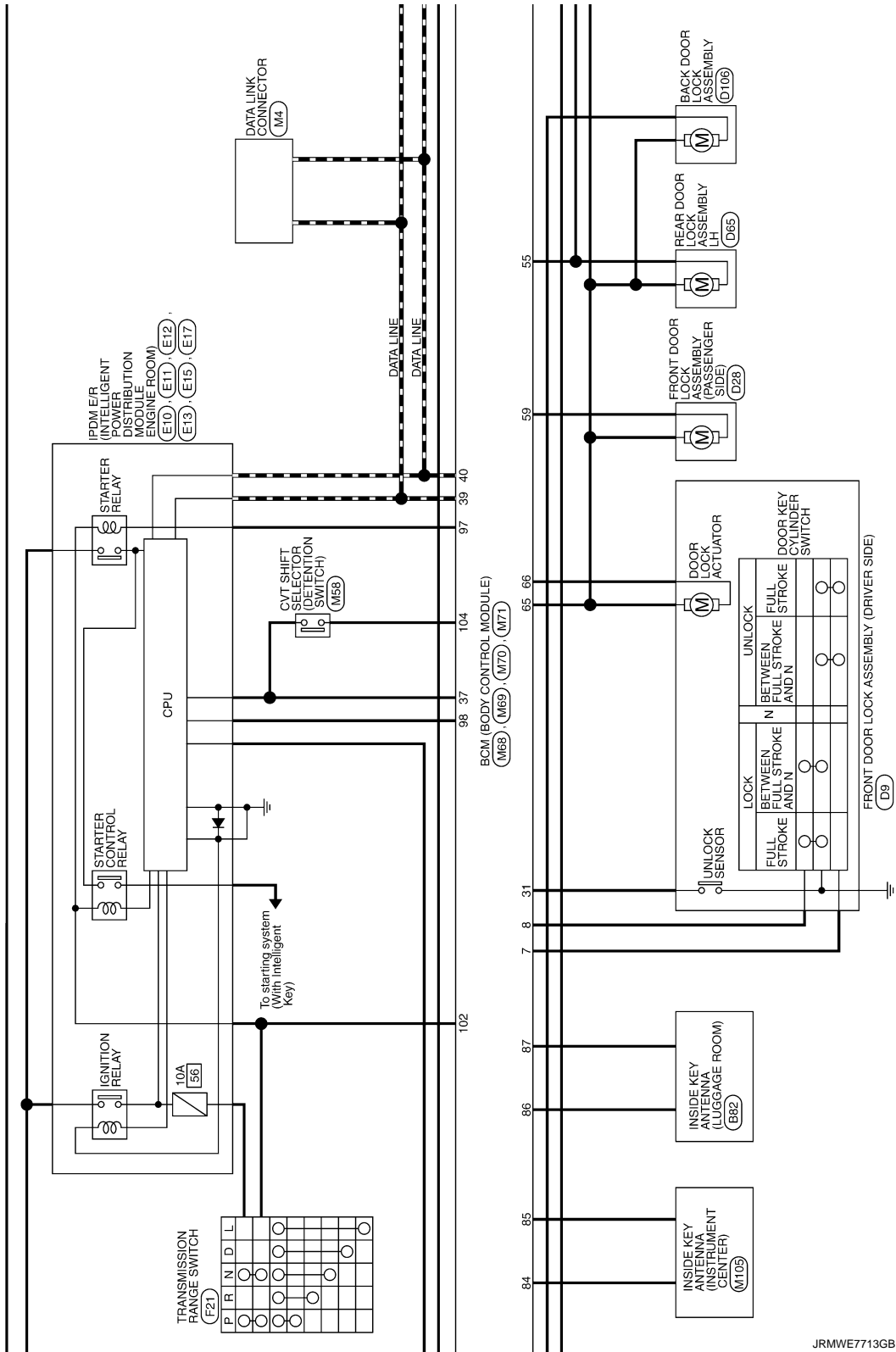
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BCM (BODY CONTROL MODULE)

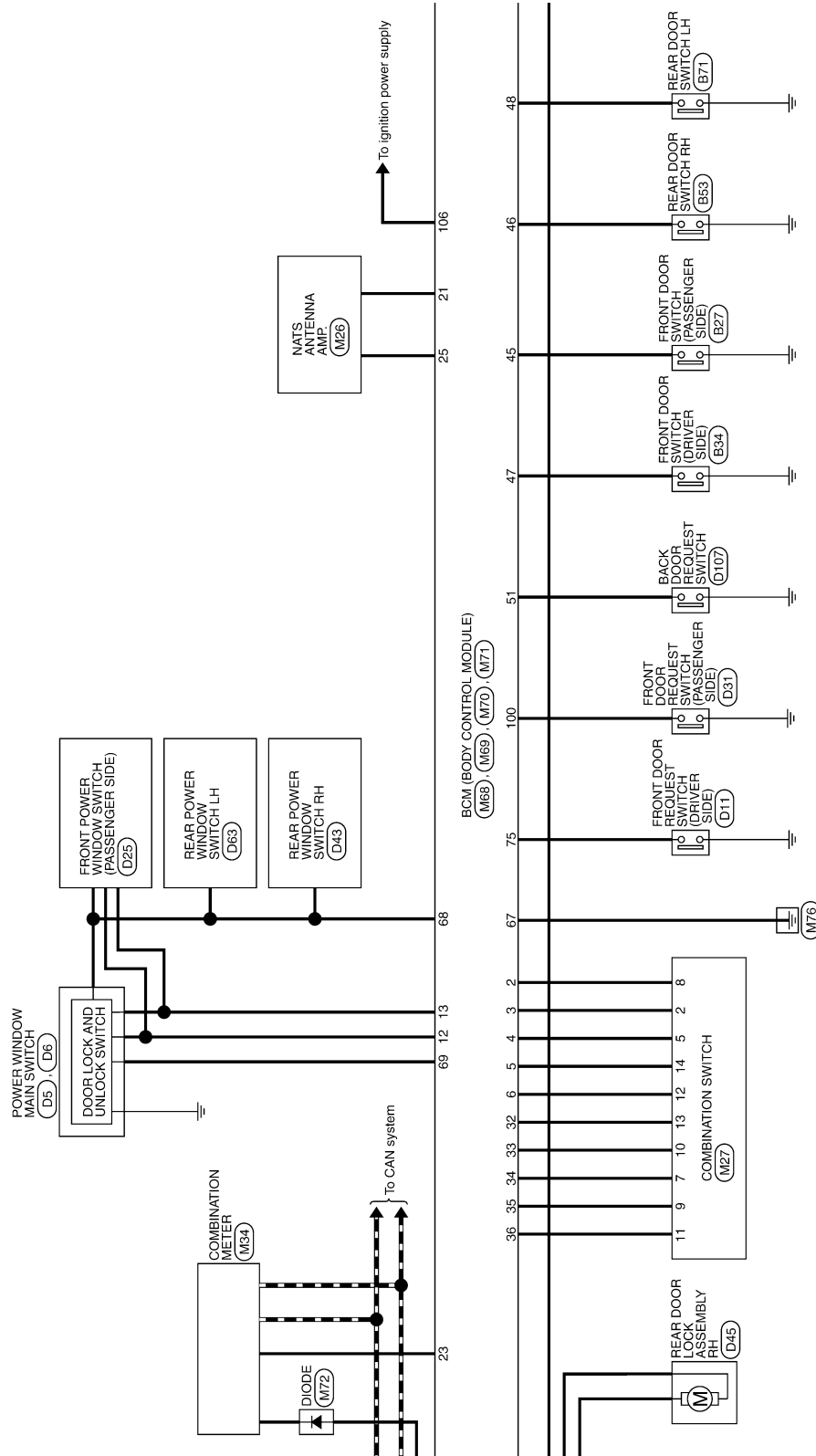
< ECU DIAGNOSIS INFORMATION >



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BCM (BODY CONTROL MODULE)

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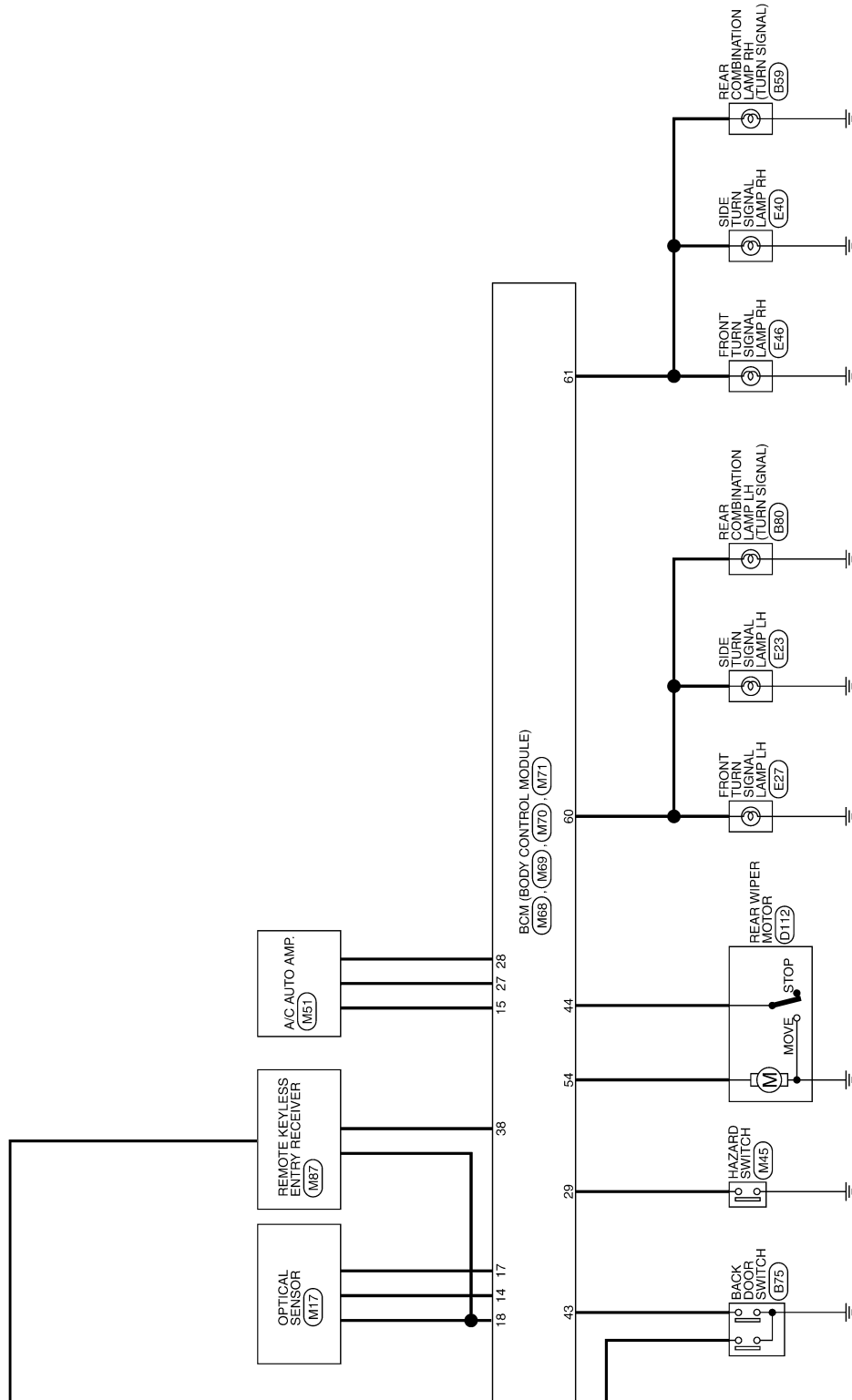


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BCM (BODY CONTROL MODULE)





















< ECU DIAGNOSIS INFORMATION >



JRMWE7715GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) | | | (WITH INTELLIGENT KEY) | | |
|-----------------------------|------------------------------------|--|-----------------------------|---------------------------------|--|
| Connector No. | B11 | | Connector No. | B34 | |
| Connector Name | LUGGAGE ROOM LAMP | | Connector Name | FRONT DOOR SWITCH (DRIVER SIDE) | |
| Connector Type | CJ04FV |  | Connector Type | TH04FV-NH |  |
| | |  | | |  |
| Terminal No. | 1 | Y | Terminal No. | 3 | LG |
| Wire | L | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B27 | | Connector No. | B53 | |
| Connector Name | FRONT DOOR SWITCH (PASSENGER SIDE) | | Connector Name | REAR DOOR SWITCH RH | |
| Connector Type | TH04FV-NH |  | Connector Type | TH04FV-NH |  |
| | |  | | |  |
| Terminal No. | 3 | SB | Terminal No. | 3 | W |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B80 | | Connector No. | B71 | |
| Connector Name | REAR COMBINATION LAMP LH | | Connector Name | REAR DOOR SWITCH LH | |
| Connector Type | RS06FB-FR |  | Connector Type | TH04FV-NH |  |
| | |  | | |  |
| Terminal No. | 1 | Y | Terminal No. | 3 | W |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B82 | | Connector No. | B75 | |
| Connector Name | INSIDE KEY ANTENNA (LUGGAGE ROOM) | | Connector Name | BACK DOOR SWITCH | |
| Connector Type | RK02FL |  | Connector Type | TH04FV-NH |  |
| | |  | | |  |
| Terminal No. | 1 | R | Terminal No. | 2 | L |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 2 | G | Terminal No. | 3 | W |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B59 | | Connector No. | B59 | |
| Connector Name | REAR COMBINATION LAMP RH | | Connector Name | REAR COMBINATION LAMP RH | |
| Connector Type | RS06FB-FR |  | Connector Type | RS06FB-FR |  |
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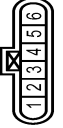





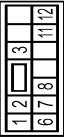




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BCM (BODY CONTROL MODULE)




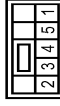












< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Connector No.</td><td>D5</td></tr> <tr><td>Connector Name</td><td>POWER WINDOW MAIN SWITCH</td></tr> <tr><td>Connector Type</td><td>NS16FW-CS</td></tr> </table>   | Connector No. | D5 | Connector Name | POWER WINDOW MAIN SWITCH | Connector Type | NS16FW-CS | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>R</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> <tr><td>3</td><td>O</td><td>-</td></tr> <tr><td>4</td><td>Y</td><td>-</td></tr> <tr><td>5</td><td>V</td><td>-</td></tr> <tr><td>6</td><td>LG</td><td>-</td></tr> <tr><td>7</td><td>V</td><td>-</td></tr> <tr><td>8</td><td>BR</td><td>-</td></tr> <tr><td>9</td><td>V</td><td>-</td></tr> <tr><td>10</td><td>L</td><td>-</td></tr> <tr><td>11</td><td>GR</td><td>-</td></tr> <tr><td>12</td><td>SB</td><td>-</td></tr> <tr><td>13</td><td>W</td><td>-</td></tr> <tr><td>14</td><td>G</td><td>-</td></tr> <tr><td>15</td><td>G</td><td>-</td></tr> <tr><td>16</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | R | - | 2 | LG | - | 3 | O | - | 4 | Y | - | 5 | V | - | 6 | LG | - | 7 | V | - | 8 | BR | - | 9 | V | - | 10 | L | - | 11 | GR | - | 12 | SB | - | 13 | W | - | 14 | G | - | 15 | G | - | 16 | W | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>SB</td><td>-</td></tr> <tr><td>3</td><td>G</td><td>-</td></tr> <tr><td>4</td><td>B</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> <tr><td>6</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | V | - | 2 | SB | - | 3 | G | - | 4 | B | - | 5 | L | - | 6 | W | - |
| Connector No. | D5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER WINDOW MAIN SWITCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS16FW-CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | R | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | O | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D6</td></tr> <tr><td>Connector Name</td><td>POWER WINDOW MAIN SWITCH</td></tr> <tr><td>Connector Type</td><td>NS03FW-CS</td></tr> </table>   | Connector No. | D6 | Connector Name | POWER WINDOW MAIN SWITCH | Connector Type | NS03FW-CS | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>17</td><td>B</td><td>-</td></tr> <tr><td>18</td><td>GR</td><td>-</td></tr> <tr><td>19</td><td>P</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 17 | B | - | 18 | GR | - | 19 | P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | D6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | POWER WINDOW MAIN SWITCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS03FW-CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | P | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D9</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>ED0FFGY-RS</td></tr> </table>   | Connector No. | D9 | Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) | Connector Type | ED0FFGY-RS | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>SB</td><td>-</td></tr> <tr><td>3</td><td>G</td><td>-</td></tr> <tr><td>4</td><td>B</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> <tr><td>6</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | V | - | 2 | SB | - | 3 | G | - | 4 | B | - | 5 | L | - | 6 | W | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>SB</td><td>-</td></tr> <tr><td>3</td><td>G</td><td>-</td></tr> <tr><td>4</td><td>B</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> <tr><td>6</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | V | - | 2 | SB | - | 3 | G | - | 4 | B | - | 5 | L | - | 6 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | D9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | ED0FFGY-RS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | G | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Connector No. | D12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | OUTSIDE KEY ANTENNA (DRIVER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | RK02MGY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D28</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>ED0FFGY-RS</td></tr> </table>   | Connector No. | D28 | Connector Name | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) | Connector Type | ED0FFGY-RS | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>5</td><td>V</td><td>-</td></tr> <tr><td>6</td><td>Y</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 5 | V | - | 6 | Y | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>5</td><td>V</td><td>-</td></tr> <tr><td>6</td><td>Y</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 5 | V | - | 6 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | D28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | ED0FFGY-RS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | V | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D25</td></tr> <tr><td>Connector Name</td><td>FRONT POWER WINDOW SWITCH (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>NS12FM-CS</td></tr> </table>   | Connector No. | D25 | Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) | Connector Type | NS12FM-CS | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>GR</td><td>-</td></tr> <tr><td>2</td><td>BR</td><td>-</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> <tr><td>6</td><td>Y</td><td>-</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>L</td><td>-</td></tr> <tr><td>11</td><td>SB</td><td>-</td></tr> <tr><td>12</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | GR | - | 2 | BR | - | 3 | B | - | 6 | Y | - | 7 | R | - | 8 | L | - | 11 | SB | - | 12 | W | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>GR</td><td>-</td></tr> <tr><td>2</td><td>BR</td><td>-</td></tr> <tr><td>3</td><td>B</td><td>-</td></tr> <tr><td>6</td><td>Y</td><td>-</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>L</td><td>-</td></tr> <tr><td>11</td><td>SB</td><td>-</td></tr> <tr><td>12</td><td>W</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | GR | - | 2 | BR | - | 3 | B | - | 6 | Y | - | 7 | R | - | 8 | L | - | 11 | SB | - | 12 | W | - | | | | | | | | | | | | | | | | | | |
| Connector No. | D25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | NS12FM-CS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | R | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | GR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Y | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | R | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | L | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | SB | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | W | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>RK02FGY</td></tr> </table>   | Connector No. | D31 | Connector Name | FRONT DOOR REQUEST SWITCH (PASSENGER SIDE) | Connector Type | RK02FGY | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>B</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | B | - | 2 | LG | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>B</td><td>-</td></tr> <tr><td>2</td><td>LG</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | B | - | 2 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | D31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR REQUEST SWITCH (PASSENGER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | RK02FGY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | LG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Connector No.</td><td>D11</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR REQUEST SWITCH (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>RK02FGY</td></tr> </table>   | Connector No. | D11 | Connector Name | FRONT DOOR REQUEST SWITCH (DRIVER SIDE) | Connector Type | RK02FGY | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>B</td><td>-</td></tr> <tr><td>2</td><td>BR</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | B | - | 2 | BR | - | <table border="1"> <tr><td>Terminal No.</td><td>Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>B</td><td>-</td></tr> <tr><td>2</td><td>BR</td><td>-</td></tr> </table> | Terminal No. | Wire | Signal Name [Specification] | 1 | B | - | 2 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector No. | D11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Name | FRONT DOOR REQUEST SWITCH (DRIVER SIDE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connector Type | RK02FGY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal No. | Wire | Signal Name [Specification] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BR | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

JRMWE7819GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | | |
|---|-----------------|-----------------------------|--------------------------------------|
| Connector No. | D32 | Connector Name | OUTSIDE KEY ANTENNA (PASSENGER SIDE) |
| Connector Type | RK02MGY | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | P | - | |
| 2 | V | - | |
| Connector No. | D43 | Connector Name | REAR POWER WINDOW SWITCH RH |
| Connector Type | NS08FM-CS | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | L | - | |
| 2 | BR | - | |
| 3 | O | - | |
| 4 | G | - | |
| 5 | R | - | |
| Connector No. | D45 | Connector Name | REAR DOOR LOCK ASSEMBLY RH |
| Connector Type | ED0FCY-RS | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 5 | W | - | |
| 6 | P | - | |
| Connector No. | D63 | Connector Name | REAR POWER WINDOW SWITCH LH |
| Connector Type | NS08FM-CS | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | L | - | |
| 2 | BR | - | |
| 3 | O | - | |
| 4 | G | - | |
| 5 | R | - | |
| Connector No. | D65 | Connector Name | REAR DOOR LOCK ASSEMBLY LH |
| Connector Type | ED0FCY-RS | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | V | - | |
| 2 | G | - | |
| Connector No. | D106 | Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | FEA04FB-FHA2-LC | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 2 | GR | - | |
| 3 | Y | - | |
| Connector No. | D107 | Connector Name | BACK DOOR REQUEST SWITCH |
| Connector Type | RK02FGY | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | W | - | |
| 2 | B | - | |
| Connector No. | D108 | Connector Name | OUTSIDE KEY ANTENNA (BACK DOOR) |
| Connector Type | RK02MGY | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | BR | - | |
| 2 | R | - | |

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JRMWE7820GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | | BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY) | |
|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Connector No. | D112 | Connector No. | E11 | Connector No. | E13 | Connector No. | E15 | Connector No. | E17 | Connector No. | E23 | Connector No. | E10 | Connector No. | E12 |
| Connector Name | REAR WIPER MOTOR | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Name | FROM INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | CJ04FM-TV | Connector Type | M06FELC | Connector Type | TH12FM-NH | Connector Type | NS16FM-CS | Connector Type | TH10FB-NH | Connector Type | STL02FW | Connector Type | M06FV-LC | Connector Type | NS08FBR-CS |
| Terminal No. | 1, 3, 4 | Terminal No. | 9, 10, 13 | Terminal No. | 24, 25, 26, 27, 28, 30, 31, 33, 34 | Terminal No. | 47, 49, 50, 51, 52, 54, 55, 56, 57, 58 | Terminal No. | 66, 64, 63 | Terminal No. | 1, 2 | Terminal No. | 18, 19, 21, 22 | Terminal No. | 5, 6, 7, 8 |
| Color Of Wire | P, BR, LG | Color Of Wire | BAW, L, W | Color Of Wire | G, Y, P, L, B, SB, W, O, R | Color Of Wire | W, GR, R, P, GR, SB, G, LG, R | Color Of Wire | W, R, L, O | Color Of Wire | L, B/R | Color Of Wire | Y, B/W, W | Color Of Wire | P, BR, LG, Y, SB, V |
| Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - | Signal Name [Specification] | - |
| Diagram | | | | | | | | | | | | | | | |
| Notes | | | | | | | | | | | | | | | |



JRMWE7821GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)

| | |
|----------------|--------------------------------|
| Connector No. | E25 |
| Connector Name | INTELLIGENT KEY WARNING BUZZER |
| Connector Type | RK03FBR |



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

| | |
|----------------|---------------------------|
| Connector No. | E27 |
| Connector Name | FRONT TURN SIGNAL LAMP LH |
| Connector Type | RS02FB |



| | | |
|-----------------------------|---|-----|
| Terminal No. | 1 | 2 |
| Color | L | BLV |
| Wire | - | - |
| Signal Name [Specification] | - | - |

| | |
|----------------|--------------------------|
| Connector No. | E40 |
| Connector Name | SIDE TURN SIGNAL LAMP RH |
| Connector Type | STL02FW |



| | | |
|-----------------------------|---|----|
| Terminal No. | 1 | 2 |
| Color | W | BY |
| Wire | - | - |
| Signal Name [Specification] | - | - |

| | |
|----------------|---------------------------|
| Connector No. | E46 |
| Connector Name | FRONT TURN SIGNAL LAMP RH |
| Connector Type | RS02FB |



| | | |
|-----------------------------|---|----|
| Terminal No. | 1 | 2 |
| Color | W | BY |
| Wire | - | - |
| Signal Name [Specification] | - | - |

| | |
|----------------|------------------|
| Connector No. | E115 |
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M04FW-LC |



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

| | |
|----------------|---------------------------|
| Connector No. | E21 |
| Connector Name | TRANSMISSION RANGE SWITCH |
| Connector Type | RK08FG |


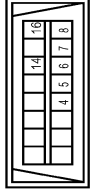
| | | | | | | | | |
|-----------------------------|---|---|---|----|----|---|---|---|
| Terminal No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Color | R | W | R | GR | SB | W | Y | G |
| Wire | - | - | - | - | - | - | - | - |
| Signal Name [Specification] | - | - | - | - | - | - | - | - |

| | |
|----------------|------------------|
| Connector No. | M1 |
| Connector Name | FUSE BLOCK (JIB) |
| Connector Type | 24311-ED000 |

| | |
|-----------------------------|---|
| Terminal No. | 1 |
| Color | W |
| Wire | - |
| Signal Name [Specification] | - |

| | |
|----------------|---------------------|
| Connector No. | M4 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BDT6FW |

| | | | | | | | |
|-----------------------------|---|---|---|------|---|----|------|
| Terminal No. | 4 | 5 | 6 | 7 | 8 | 14 | 16 |
| Color | B | B | L | GR/R | O | P | LG/R |
| Wire | - | - | - | - | - | - | - |
| Signal Name [Specification] | - | - | - | - | - | - | - |

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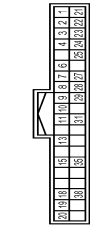
EXL

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

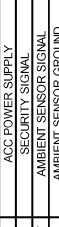
BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)

| | |
|----------------|----------------|
| Connector No. | M10 |
| Connector Name | IGNITION RELAY |
| Connector Type | MS02FL-M2-LC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | W/B | - |
| 3 | W/B | - |
| 5 | L | - |

| | |
|----------------|----------------|
| Connector No. | M17 |
| Connector Name | OPTICAL SENSOR |
| Connector Type | TK03FW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R/G | POWER |
| 2 | L/B | OUTPUT |
| 3 | V | GROUND |

| | |
|----------------|-------------------|
| Connector No. | M34 |
| Connector Name | COMBINATION METER |
| Connector Type | TH04FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | L | CANH |
| 2 | P | CANH |
| 3 | V | VEHICLE SPEED SIGNAL (2-PULSE) |
| 4 | L | VEHICLE SPEED SIGNAL (4-PULSE) |
| 5 | V | VEHICLE SPEED SIGNAL (8-PULSE) |
| 6 | V | VEHICLE SPEED SIGNAL (16-PULSE) |
| 7 | R/G | FUEL LEVEL SENSOR SIGNAL |
| 8 | P | AIR BAG SIGNAL |
| 9 | O | OVERDRIVE CONTROL SWITCH SIGNAL |
| 10 | SB | SEAT BELT Buckle Switch Signal (Driver Side) |
| 11 | GR | PARKING BRAKE SWITCH SIGNAL |
| 12 | BR | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 13 | BR | ILLUMINATION CONTROL SIGNAL |
| 14 | L/Y | ACC POWER SUPPLY |
| 15 | R/Y | SECURITY SIGNAL |
| 16 | R/Y | SECURITY SIGNAL |
| 17 | P/W | AMBIENT SENSOR SIGNAL |
| 18 | R/W | AMBIENT SENSOR SIGNAL |
| 19 | R/W | AMBIENT SENSOR SIGNAL |
| 20 | R/W | AMBIENT SENSOR SIGNAL |
| 21 | B | GROUND |
| 22 | B | GROUND |
| 23 | B | GROUND |
| 24 | P/U | FUEL LEVEL SENSOR GROUND |
| 25 | B | VDC GROUND |
| 26 | L/R | BATTERY POWER SUPPLY |
| 27 | GR | IGNITION SIGNAL |
| 28 | GR | IGNITION SIGNAL |
| 29 | BR | PASSENGER SEAT BELT WARNING SIGNAL |
| 30 | R | A/C AUTO AMP. CONNECTION SIGNAL |
| 31 | R | A/C AUTO AMP. CONNECTION SIGNAL |
| 32 | BR | ENGINE COOLANT TEMPERATURE SIGNAL |
| 33 | GR | ALTERNATOR SIGNAL |

| | |
|----------------|---------------|
| Connector No. | M51 |
| Connector Name | A/C AUTO AMP. |
| Connector Type | TK16FSY |



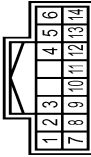
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|----------------------------------|
| 21 | BR | WATER TEMPERATURE SIGNAL |
| 22 | P/W | AMBIENT SENSOR SIGNAL |
| 23 | O | INTAKE SENSOR SIGNAL |
| 24 | G | IN-VEHICLE SENSOR SIGNAL |
| 25 | P | SUNLOAD SENSOR SIGNAL |
| 26 | SB | INTAKE DOOR MOTOR PBR F/B SIGNAL |
| 27 | R | REAR WINDOW DEFOGGER F/B SIGNAL |
| 28 | GR | MODE DRIVE SIGNAL 4 |
| 29 | GR | MODE DRIVE SIGNAL 4 |
| 30 | W | MODE DRIVE SIGNAL 3 |
| 31 | Y | MODE DRIVE SIGNAL 2 |
| 32 | V | MODE DRIVE SIGNAL 1 |
| 33 | W/L | REAR WINDOW DEFOGGER ON SIGNAL |
| 34 | Y/G | A/C COIL SIGNAL |
| 35 | G/W | BLOWER FAN ON SIGNAL |
| 36 | GR/R | POWER TRANSISTOR CONTROL SIGNAL |

| | |
|----------------|-------------------|
| Connector No. | M26 |
| Connector Name | NATS ANTENNA AMP. |
| Connector Type | TH04FW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------|
| 1 | Y | BAT |
| 2 | P/L | CLK |
| 3 | B | GND (Without Intelligent Key) |
| 3 | L/G | DATA (With Intelligent Key) |
| 4 | B | GND (With Intelligent Key) |
| 4 | L/G | DATA (Without Intelligent Key) |

| | |
|----------------|--------------------|
| Connector No. | M27 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH06FW-NH |



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

JRMWE7823GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY)

| Connector No. | M68 |
|----------------|---------------------|
| Connector Name | C/VT SHIFT SELECTOR |
| Connector Type | TH08FV-NH |



| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 8 | 7 | 6 | 5 |

| Terminal No. | Color | Wire | Signal Name [Specification] |
|--------------|-------|------|-----------------------------|
| 1 | P | - | - |
| 2 | B | W | - |
| 3 | W | - | - |
| 4 | BR | - | - |
| 5 | LG | - | - |
| 6 | B | - | - |
| 7 | YR | - | - |
| 8 | G/Y | - | - |

| | |
|----------------|---------------------------|
| Connector No. | M68 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH08FV-NH |



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

| Terminal No. | Color | Wire | Signal Name [Specification] |
|--------------|-------|------|-----------------------------|
| 2 | BR/W | - | COMBI SW INPUT 5 |
| 3 | GR | - | COMBI SW INPUT 4 |
| 4 | L/Y | - | COMBI SW INPUT 3 |
| 5 | G | - | COMBI SW INPUT 2 |
| 6 | L/R | - | COMBI SW INPUT 1 |
| 7 | W/B | - | KEY CYL LOCK SW |
| 8 | W/B | - | KEY CYL LOCK SW |
| 9 | B | - | STOP LAMP SW 1 |
| 12 | GR | - | CENTRAL DOOR LOCK SW |
| 13 | BR | - | CENTRAL DOOR UNLOCK SW |
| 14 | L/G | - | OPTICAL SENSOR |
| 15 | W/L | - | REAR WINDOW DEFOGGER SW |

| Connector No. | M70 |
|----------------|---------------------------|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA08FV-FHAG-SA |



| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 65 | 66 | 67 | 68 | 69 | 70 | | | | | | | |

| Terminal No. | Color | Wire | Signal Name [Specification] |
|--------------|-------|------------|---------------------------------|
| 56 | L | Y | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | L | BAT (FUSE) | BAT (FUSE) |
| 59 | G | - | PASSENGER DOOR UNLOCK OUTPUT |
| 60 | W/B | - | TURN SIGNAL LH OUTPUT |
| 61 | W/L | - | TURN SIGNAL RH OUTPUT |
| 63 | BR | - | ROOM LAMP TIMER CONTROL |
| 65 | V | - | ALL DOOR LOCK OUTPUT |
| 66 | L/B | - | DRIVER DOOR UNLOCK OUTPUT |
| 67 | B | - | GROUND |
| 68 | L | - | POWER WINDOW POWER SUPPLY (IGN) |
| 69 | P | - | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | - | BAT (F/L) |

| | |
|----------------|---------------------------|
| Connector No. | M71 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH08FV-NH |



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

| Terminal No. | Color | Wire | Signal Name [Specification] |
|--------------|-------|------|-----------------------------|
| 72 | SB | - | A/C INDICATOR OUTPUT |
| 75 | SB | - | DRIVER DOOR REQUEST SW |
| 76 | L/O | - | PUSH SW |
| 78 | L/G | - | DRIVER DOOR ANT+ |
| 79 | V | - | DRIVER DOOR ANT |
| 80 | BR/Y | - | PASSENGER DOOR ANT+ |
| 81 | L/Y | - | PASSENGER DOOR ANT- |
| 82 | W/B | - | BACK DOOR ANT+ |

| | | | |
|-----|------|---|-----------------------------------|
| 83 | B/W | - | BACK DOOR ANT- |
| 84 | Y/G | - | ROOM ANT+ |
| 85 | Y/L | - | ROOM ANT- |
| 86 | P | - | LUGGAGE ROOM ANT+ |
| 87 | L | - | LUGGAGE ROOM ANT- |
| 90 | W/L | - | PUSH-BUTTON IGNITION SW ILL POWER |
| 91 | Y | - | ACCION IND |
| 92 | BR/V | - | PUSH-BUTTON IGNITION SW ILL GND |
| 93 | GR/W | - | L-KEY WARN BUZZER |
| 96 | BR/W | - | ACC RELAY CONT |
| 97 | L/R | - | STARTER RELAY CONT |
| 98 | BR | - | IGN RELAY (IPM E/R) CONT |
| 99 | W/R | - | IGN RELAY CONT |
| 100 | G | - | PASSENGER DOOR REQUEST SW |
| 102 | G | - | SHIFT N/P |
| 103 | G/Y | - | FR DISEASER SW |
| 104 | Y/R | - | C/VT SHIFT SELECTOR POWER SUPPLY |
| 105 | B/O | - | STOP LAMP SW 2 |
| 106 | Y/B | - | BLOWER FAN MOTOR RELAY CONT |

| | |
|----------------|-------------|
| Connector No. | M72 |
| Connector Name | DIODE |
| Connector Type | 24335-C9900 |



| | |
|---|---|
| 1 | 2 |
|---|---|

| Terminal No. | Color | Wire | Signal Name [Specification] |
|--------------|-------|------|-----------------------------|
| 1 | BR | - | - |
| 2 | BR/V | - | - |

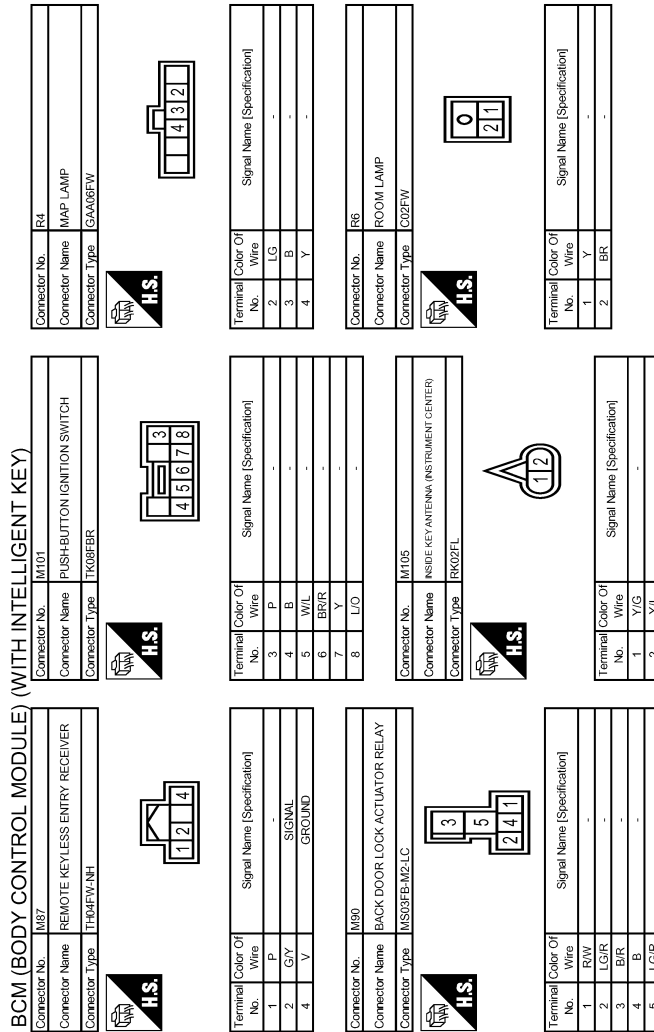
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EXL

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



JRMWE7825GB

INFOID:0000000010249355

WITH INTELLIGENT KEY : Fail-safe

FAIL-SAFE CONTROL BY DTC

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|---|---|
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI-SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |
| B2198: NATS ANTENNA AMP | Inhibit engine cranking | Erase DTC |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter relay control signal • Starter relay status signal (CAN) |
| B260F: ENG STATE SIG LOST | Inhibit engine cranking | When any of the following conditions are fulfilled <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN) |
| B26F1: IGN RELAY OFF | Inhibit engine cranking | When the following conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch ON signal (CAN: Transmitted from BCM): ON • Ignition switch ON signal (CAN: Transmitted from IPDM E/R): ON |
| B26F2: IGN RELAY ON | Inhibit engine cranking | When the following conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch ON signal (CAN: Transmitted from BCM): OFF • Ignition switch ON signal (CAN: Transmitted from IPDM E/R): OFF |
| B26F3: START CONT RLY ON | Inhibit engine cranking | When the following conditions are fulfilled <ul style="list-style-type: none"> • Starter control relay signal (CAN: Transmitted from BCM): OFF • Starter control relay signal (CAN: Transmitted from IPDM E/R): OFF |
| B26F4: START CONT RLY OFF | Inhibit engine cranking | When the following conditions are fulfilled <ul style="list-style-type: none"> • Starter control relay signal (CAN: Transmitted from BCM): ON • Starter control relay signal (CAN: Transmitted from IPDM E/R): ON |
| B26F7: BCM | Inhibit engine cranking by Intelligent Key system | When room antenna and luggage room antenna functions normally |

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal. When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

FAIL-SAFE CONTROL OF COMBINATION SWITCH READING FUNCTION CAUSED BY LOW POWER SUPPLY VOLTAGE

If voltage of battery power supply lower, BCM maintains combination switch reading to the status when input voltage is less than approximately 9 V.

NOTE:

When voltage of battery power supply is approximately 9 V or more, combination switch reading function returns to normal operation.

WITH INTELLIGENT KEY : DTC Inspection Priority Chart

INFOID:0000000010249356

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

| Priority | DTC |
|----------|--|
| 1 | B2562: LOW VOLTAGE |
| 2 | <ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Priority | DTC |
|----------|---|
| 3 | <ul style="list-style-type: none"> • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI-SCANNING • B2198: NATS ANTENNA AMP |
| 4 | <ul style="list-style-type: none"> • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP/CLUTCH SW • B2605: PNP/CLUTCH SW • B2608: STARTER RELAY • B260F: ENG STATE SIG LOST • B2614: BCM • B2615: BCM • B2616: BCM • B2618: BCM • B261A: PUSH-BTN IGN SW • B26F1: IGN RELAY OFF • B26F2: IGN RELAY ON • B26F3: START CONT RLY ON • B26F4: START CONT RLY OFF • B26F6: BCM • B26F7: BCM • B26F8: BCM • B26FC: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED |
| 5 | <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: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL |
| 6 | <ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA |
| 7 | <ul style="list-style-type: none"> • B2626: OUTSIDE ANTENNA • B2627: OUTSIDE ANTENNA • B2628: OUTSIDE ANTENNA |

WITH INTELLIGENT KEY : DTC Index

INFOID:000000010249357

NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to [EXL-20, "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|--|-----------|--|---------------------------------|---------------------------------------|------------------------|
| No DTC is detected. further testing may be required. | — | — | — | — | — |
| U1000: CAN COMM | — | — | — | — | BCS-40 |
| U1010: CONTROL UNIT (CAN) | — | — | — | — | BCS-41 |
| U0415: VEHICLE SPEED | — | — | × | — | BCS-42 |
| B2192: ID DISCORD BCM-ECM | × | — | — | — | SEC-38 |
| B2193: CHAIN OF BCM-ECM | × | — | — | — | SEC-40 |
| B2195: ANTI-SCANNING | × | — | — | — | SEC-41 |
| B2198: NATS ANTENNA AMP | × | — | — | — | SEC-42 |
| B2555: STOP LAMP | — | × | × | — | SEC-46 |
| B2556: PUSH-BTN IGN SW | — | × | × | — | SEC-48 |
| B2557: VEHICLE SPEED | — | × | × | — | SEC-50 |
| B2562: LOW VOLTAGE | — | × | — | — | BCS-43 |
| B2601: SHIFT POSITION | — | × | × | — | SEC-51 |
| B2602: SHIFT POSITION | — | × | × | — | SEC-54 |
| B2603: SHIFT POSI STATUS | — | × | × | — | SEC-57 |
| B2604: PNP/CLUTCH SW | — | × | × | — | SEC-62 |
| B2605: PNP/CLUTCH SW | — | × | × | — | SEC-65 |
| B2608: STARTER RELAY | × | × | × | — | SEC-67 |
| B260F: ENG STATE SIG LOST | × | × | × | — | SEC-69 |
| B2614: BCM | — | × | × | — | PCS-77 |
| B2615: BCM | — | × | × | — | PCS-80 |
| B2616: BCM | — | × | × | — | PCS-83 |
| B2618: BCM | — | × | × | — | PCS-86 |
| B261A: PUSH-BTN IGN SW | — | × | × | — | PCS-87 |
| B2621: INSIDE ANTENNA | — | × | — | — | DLK-44 |
| B2622: INSIDE ANTENNA | — | × | — | — | DLK-46 |
| B2626: OUTSIDE ANTENNA | — | × | — | — | DLK-50 |
| B2627: OUTSIDE ANTENNA | — | × | — | — | DLK-48 |
| B2628: OUTSIDE ANTENNA | — | × | — | — | DLK-52 |
| B26F1: IGN RELAY OFF | × | × | × | — | PCS-89 |
| B26F2: IGN RELAY ON | × | × | × | — | PCS-91 |
| B26F3: START CONT RLY ON | × | × | × | — | SEC-70 |
| B26F4: START CONT RLY OFF | × | × | × | — | SEC-71 |
| B26F6: BCM | — | × | × | — | PCS-93 |
| B26F7: BCM | × | × | × | — | SEC-73 |
| B26F8: BCM | — | × | × | — | SEC-74 |
| B26FC: KEY REGISTRATION | — | × | × | — | SEC-75 |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warning lamp ON | Tire pressure monitor warning lamp ON | Reference page |
|---------------------------|-----------|--|---------------------------------|---------------------------------------|-----------------------|
| C1704: LOW PRESSURE FL | — | — | — | × | WT-26 |
| C1705: LOW PRESSURE FR | — | — | — | × | |
| C1706: LOW PRESSURE RR | — | — | — | × | |
| C1707: LOW PRESSURE RL | — | — | — | × | |
| C1708: [NO DATA] FL | — | — | — | × | WT-28 |
| C1709: [NO DATA] FR | — | — | — | × | |
| C1710: [NO DATA] RR | — | — | — | × | |
| C1711: [NO DATA] RL | — | — | — | × | |
| C1716: [PRESSDATA ERR] FL | — | — | — | × | WT-31 |
| C1717: [PRESSDATA ERR] FR | — | — | — | × | |
| C1718: [PRESSDATA ERR] RR | — | — | — | × | |
| C1719: [PRESSDATA ERR] RL | — | — | — | × | |
| C1729: VHCL SPEED SIG ERR | — | — | — | × | WT-33 |

WITHOUT INTELLIGENT KEY

WITHOUT INTELLIGENT KEY : Reference Value

INFOID:0000000010249358

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| 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 |
| LOCK STATUS | NOTE: The item is indicated, but not monitored. | Off |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|----------------|--|------------------------------------|-----|
| ACC ON SW | Ignition switch OFF | Off | A |
| | Ignition switch ACC or ON | On | |
| KEYLESS LOCK | "LOCK" button of key fob is not pressed | Off | B |
| | "LOCK" button of key fob is pressed | On | |
| KEYLESS UNLOCK | "UNLOCK" button of key fob is not pressed | Off | C |
| | "UNLOCK" button of key fob is pressed | On | |
| SHOCK SENSOR | NOTE: The item is indicated, but not monitored. | NORMAL | D |
| 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 | E |
| | Driver door key cylinder UNLOCK position | On | |
| VEHICLE SPEED | While driving | Equivalent to speed-ometer reading | F |
| REAR DEF SW | Rear window defogger switch OFF | Off | |
| | Rear window defogger switch ON | On | |
| REVERSE SW CAN | NOTE: The item is indicated, but not used. | Off | G |
| | | On | |
| TAIL LAMP SW | Lighting switch OFF | Off | H |
| | Lighting switch 1ST | On | |
| FR FOG SW | NOTE: The item is indicated, but not monitored. | Off | I |
| BUCKLE SW | The seat belt (driver side) is fastened. [Seat belt switch (driver side) OFF] | Off | |
| | The seat belt (driver side) is unfastened. [Seat belt switch (driver side) ON] | On | |
| TRNK/HAT MNTR | NOTE: The item is indicated, but not monitored. | Off | J |
| KYLS TRNK/HAT | NOTE: The item is indicated, but not monitored. | Off | K |
| KEYLESS PANIC | PANIC button of key fob is not pressed | Off | |
| | PANIC button of key fob is pressed | On | EXL |
| HI BEAM SW | Lighting switch OFF | Off | |
| | Lighting switch HI | On | |
| HEAD LAMP SW 1 | Lighting switch OFF | Off | M |
| | Lighting switch 2ND | On | |
| HEAD LAMP SW 2 | Lighting switch OFF | Off | N |
| | Lighting switch 2ND | On | |
| AUTO LIGHT SW | NOTE: The item is indicated, but not monitored. | Off | O |
| PASSING SW | Other than lighting switch PASS | Off | |
| | Lighting switch PASS | On | |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off | P |
| 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 | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|-----------------|---|--------------|
| PKB SW | Parking brake switch is OFF | Off |
| | Parking brake switch is ON | On |
| ENGINE RUN | Engine stopped | Off |
| | Engine running | On |
| OPTI SEN (DTCT) | NOTE: The item is indicated, but not monitored. | Close to 5 V |
| OPTI SEN (FILT) | NOTE: The item is indicated, but not monitored. | Close to 5 V |
| LIG SEN COND | NOTE: The item is indicated, but not monitored. | OFF |
| 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 |
| FR WIPER LOW | Front wiper switch OFF | Off |
| | Front wiper switch LO | On |
| FR WIPER INT | Front wiper switch OFF | Off |
| | Front wiper switch INT | On |
| FR WASHER SW | Front washer switch OFF | Off |
| | 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 |
| | Front wiper stop position | On |
| RR WIPER ON | Rear wiper switch OFF | Off |
| | Rear wiper switch ON | On |
| RR WIPER INT | Rear wiper switch OFF | Off |
| | Rear wiper switch INT | On |
| RR WASHER SW | Rear washer switch OFF | Off |
| | Rear washer switch ON | On |
| RR WIPER STOP | Rear wiper stop position | Off |
| | Other than rear wiper stop position | On |
| RAIN SENSOR | NOTE: The item is indicated, but not monitored. | Off |
| HAZARD SW | Hazard switch OFF | Off |
| | Hazard switch ON | On |
| FAN ON SIG | Blower control dial OFF | Off |
| | Other than blower control dial OFF | On |
| AIR COND SW | A/C switch OFF | Off |
| | A/C switch ON | On |
| THERMO AMP | Ignition switch ON | Off |
| | Evaporator is extremely low temperature | On |
| FR DEF SW | Other than A/C mode defroster ON position | Off |
| | A/C mode defroster ON position | On |
| KEYLESS TRUNK | NOTE: The item is indicated, but not monitored. | Off |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status | |
|---------------|--|--------------|---|
| TRNK OPNR SW | NOTE: The item is indicated, but not monitored. | Off | A |
| TRNK OPN MNTR | NOTE: The item is indicated, but not monitored. | Off | B |
| HOOD SW | Close the hood | Off | C |
| | Open the hood | On | |
| TRANSPONDER | Other than the ignition switch is ON by key registered to BCM. | Off | D |
| | The ignition switch is ON by key registered to BCM. | On | |
| INTELLI KEY | NOTE: The item is indicated, but not used. | Off | E |
| AUTO RELOCK | NOTE: The item is indicated, but not monitored. | Off | F |
| OIL PRESS SW | <ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running | Off | F |
| | Ignition switch ON | On | |
| BRAKE SW | Brake pedal is not depressed | Off | G |
| | Brake pedal is depressed | On | |

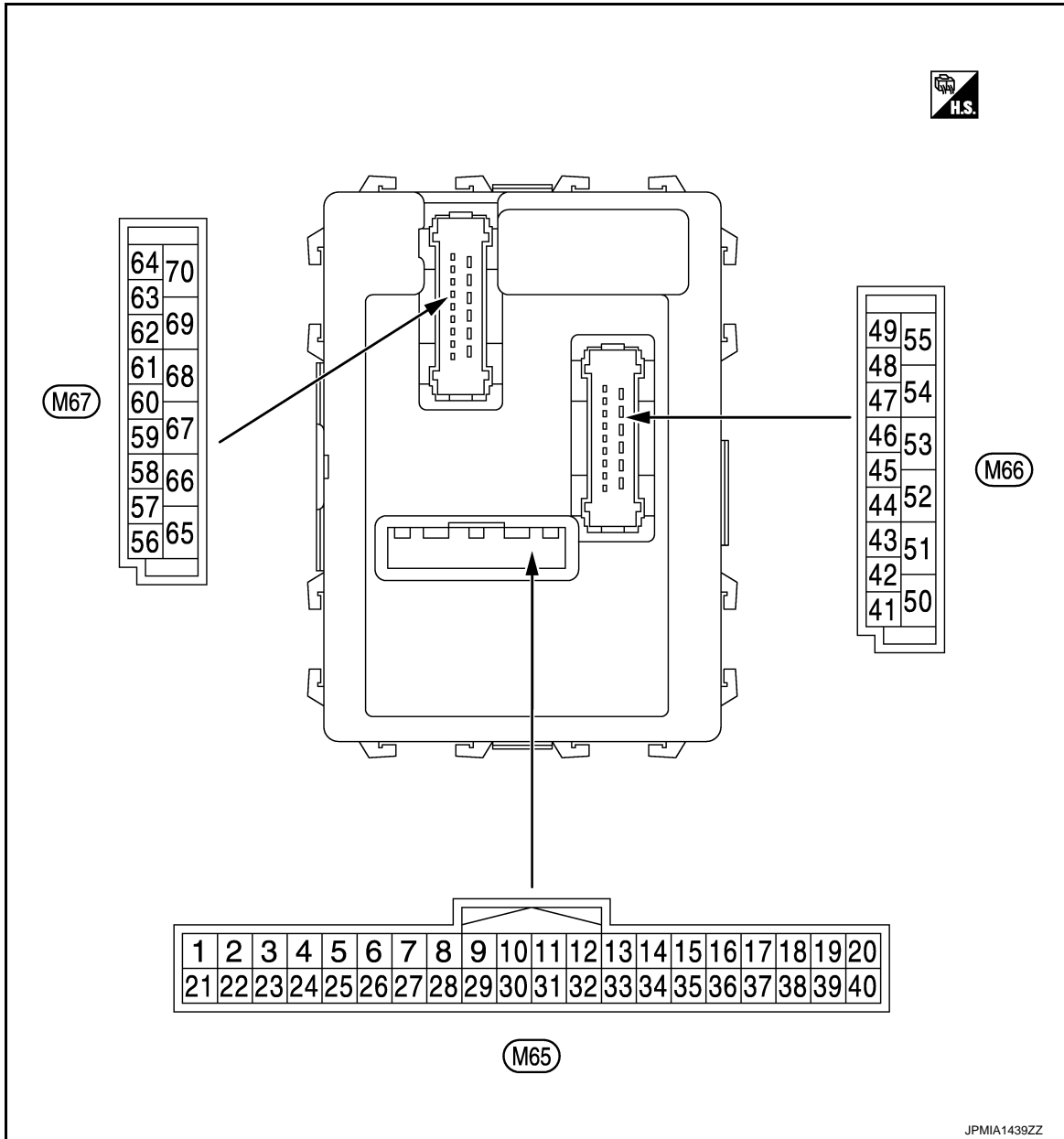
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



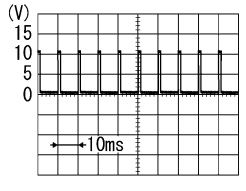
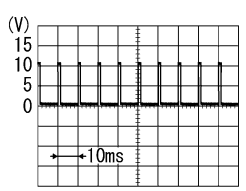
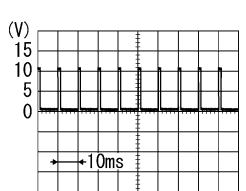
NOTE:

- M65, M66: White
- M67: Black

PHYSICAL VALUES

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

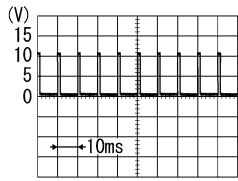
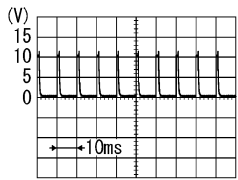
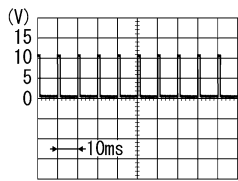
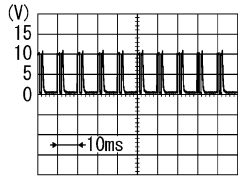
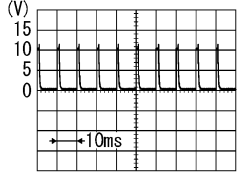
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|---|-------------------------|---|
| + | - | Signal name | Input/ Output | | | |
| 2 (BR/W) | Ground | Combination switch INPUT 5 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V |
| | | | | | Turn signal switch RH |  |
| | | | | | Lighting switch HI | |
| | | | | | Lighting switch 1ST | |
| | | | | | Lighting switch 2ND | |
| 3 (GR) | 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 | |
| 4 (L/Y) | Ground | Combination switch INPUT 3 | Input | Combination switch (Wiper intermit- tent dial 4) | All switch OFF | 0 V |
| | | | | | Front wiper switch LO |  |
| | | | | | Front wiper switch MIST | |
| | | | | | Front wiper switch INT | |

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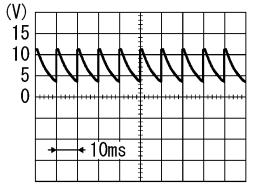
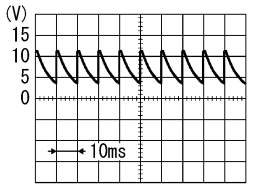
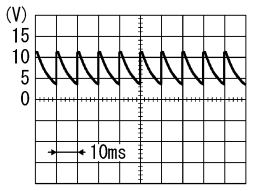
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------|------------------|-----------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 5 (G) | 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 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 5 • Wiper intermittent dial 6 |  PKIB4958J 1.0 V |
| | | | | | Rear wiper switch ON (Wiper intermittent dial 4) |  PKIB4956J 0.8 V |
| 6 (L/R) | 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) |  PKIB4958J 1.0 V |
| | | | | | Any of the condition below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 |  PKIB4952J 1.9 V |
| | | | | | Any of the condition below with all switch OFF <ul style="list-style-type: none"> • Wiper intermittent dial 6 • Wiper intermittent dial 7 |  PKIB4956J 0.8 V |

BCM (BODY CONTROL MODULE)

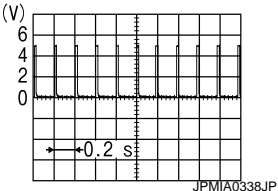
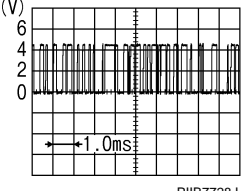
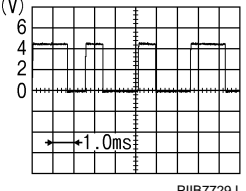
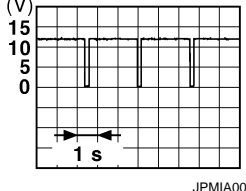
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|------------------------------------|------------------|--------------------------------|---------------------------------------|--|
| + | - | Signal name | Input/ Output | | | |
| 7 (W/R) | Ground | Door key cylinder switch UNLOCK | Input | Door key cylinder switch | NEUTRAL position |  <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | UNLOCK position | |
| 8 (W/B) | Ground | Door key cylinder switch LOCK | Input | Door key cylinder switch | NEUTRAL position | 12 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 (W/L) | Ground | Rear window defog- ger switch | Input | Rear window defogger switch | OFF (Not pressed) | 12 V |
| | | | | | ON (Pressed) | 0 V |
| 11 (L/Y) | Ground | Ignition switch ACC | Input | Ignition switch OFF | | 0 V |
| | | | | Ignition switch ACC or ON | | Battery voltage |
| 12 (SB) | Ground | Passenger door switch | Input | Passenger door switch | OFF (When passenger door closed) |  <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | ON (When passenger door opened) | |
| 13 (GR/L) | Ground | Rear RH door switch | Input | Rear RH door switch | OFF (When rear RH door closed) |  <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | ON (When rear RH door opened) | |
| 18 (V) | Ground | Receiver ground | Input | Ignition switch ON | | 0 V |

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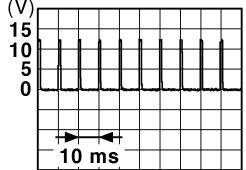
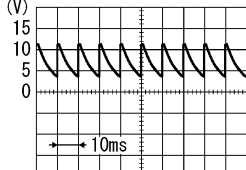
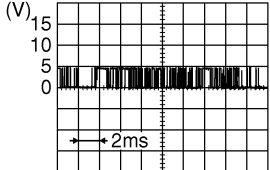
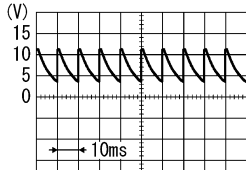
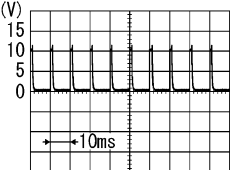
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|--|--|
| + | - | Signal name | Input/ Output | | |
| 19 (BR) | Ground | Remote keyless entry receiver power supply | Input | Insert mechanical key into ignition key cylinder | 0 V |
| | | | | Remove mechanical key from ignition key cylinder (Any door opened) | 5 V |
| | | | | Remove mechanical key from ignition key cylinder (Any door closed) |  <p style="text-align: right; font-size: small;">JPMA0338JP</p> |
| 20 (G/Y) | Ground | Remote keyless entry receiver communication | Input | Insert mechanical key into ignition key cylinder | 0 V |
| | | | | Waiting |  <p style="text-align: right; font-size: small;">PIIB7728J</p> |
| | | | | Signal receiving |  <p style="text-align: right; font-size: small;">PIIB7729J</p> |
| 21 (P/L) | Ground | NATS antenna amp. | Input/ Output | Just after inserting ignition key in key cylinder | Pointer of tester should move |
| | | | | Other than above | 0 V |
| 23 (R/Y) | Ground | Security indicator | Input | ON | 0 V |
| | | | | Blinking (Ignition switch OFF) |  <p style="text-align: right; font-size: small;">JPMA0014GB</p> |
| | | | | OFF | 12 V |
| 25 (LG) | Ground | NATS antenna amp. | Input/ Output | Just after inserting ignition key in key cylinder | Pointer of tester should move |
| | | | | Other than above | 0 V |
| 26 (GR) | Ground | Thermo control amp. | Input | Ignition switch ON | 0 V |
| | | | | Evaporator is extremely low temperature | 12 V |

BCM (BODY CONTROL MODULE)

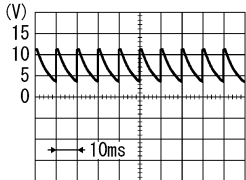
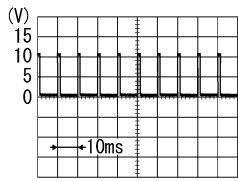
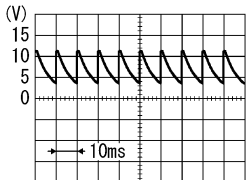
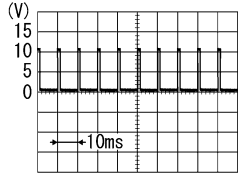
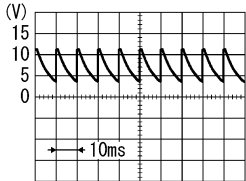
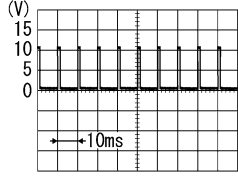
< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-----------------------------|------------------|--------------------|---|--|
| + | - | Signal name | Input/ Output | | | |
| 27 (Y/G) | Ground | A/C switch | Input | A/C switch | OFF |  <small>JPMIA0012GB</small> 1.0 - 1.5 V |
| | | | | A/C switch | ON | 0 V |
| 28 (G/W) | Ground | Blower fan switch | Input | Fan switch | Blower fan switch OFF |  <small>PKIB4960J</small> 7.0 - 8.0 V |
| | | | | Fan switch | Blower fan switch ON | 0 V |
| 29 (L/W) | Ground | Hazard switch | Input | Hazard switch | OFF | Battery voltage |
| | | | | Hazard switch | ON | 0 V |
| 31 (G/Y) | Ground | Front defroster switch | Input | Ignition switch | ON | 0 V |
| | | | | Ignition switch | Other than A/C mode defroster ON position |  <small>JPMIA0589GB</small> 8.0 - 9.0 V |
| 32 (LG) | Ground | Combination switch OUTPUT 5 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <small>PKIB4960J</small> 7.0 - 8.0 V |
| | | | | Combination switch | Rear wiper switch ON (Wiper intermittent dial 4) | 0 V |
| | | | | Combination switch | Any of the condition below with all switch OFF |  <small>PKIB4956J</small> 1.0 V |

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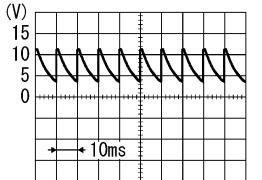
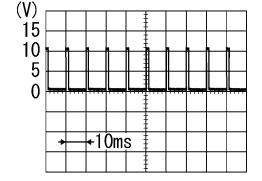
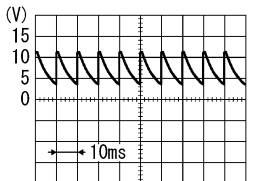
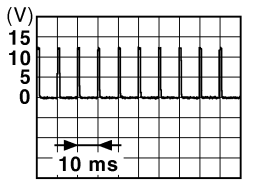
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|---|--------|--------------------------------|------------------|---|---|--|
| + | - | Signal name | Input/ Output | | | |
| 33 (Y/L) | Ground | Combination switch OUTPUT 4 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right;">PKIB4960J</p> <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | Lighting switch 1ST (Wiper intermittent dial 4) |  <p style="text-align: right;">PKIB4958J</p> <p style="text-align: center;">1.2 V</p> |
| | | | | | 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 (W) | Ground | Combination switch OUTPUT 3 | Output | Combination switch | All switch OFF (Wiper intermittent dial 4) |  <p style="text-align: right;">PKIB4960J</p> <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | Lighting switch 2ND (Wiper intermittent dial 4) |  <p style="text-align: right;">PKIB4958J</p> <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 | | | | | | |
| 35 (R/L) | Ground | Combination switch OUTPUT 2 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  <p style="text-align: right;">PKIB4960J</p> <p style="text-align: center;">7.0 - 8.0 V</p> |
| | | | | | Lighting switch 2ND |  <p style="text-align: right;">PKIB4958J</p> <p style="text-align: center;">1.2 V</p> |
| | | | | | Lighting switch PASS | |
| | | | | | Front wiper switch INT | |
| Front wiper switch HI | | | | | | |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

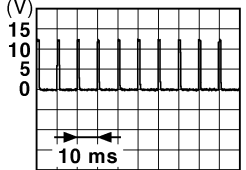
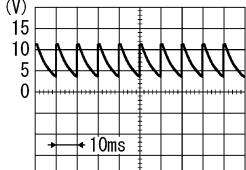
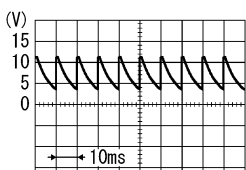
| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) | |
|------------------------------|--------|-------------------------------------|------------------|---|---|--|
| + | - | Signal name | Input/ Output | | | |
| 36 (L/O) | Ground | Combination switch OUTPUT 1 | Output | Combination switch (Wiper intermit- tent dial 4) | All switch OFF |  7.0 - 8.0 V |
| | | | | | Turn signal switch RH |  1.2 V |
| | | | | | Turn signal switch LH | |
| | | | | | Front wiper switch LO (Front wiper switch MIST) | |
| | | | | Front washer switch ON | | |
| 37 (R/W) | Ground | Key switch | Input | Insert mechanical key into ignition key cylinder | Battery voltage | |
| | | | | Remove mechanical key from ignition key cylinder | 0 V | |
| 38 (O) | Ground | Ignition switch ON | Input | Ignition switch OFF or ACC | 0 V | |
| | | | | Ignition switch ON | Battery voltage | |
| 39 (L) | Ground | CAN-H | Input/ Output | — | — | |
| 40 (P) | Ground | CAN-L | Input/ Output | — | — | |
| 43 (W) | Ground | Back door switch | Input | Back door switch | OFF (When back door closed) |  7.0 - 8.0 V |
| | | | | | ON (When back door opened) | 0 V |
| 44 (LG) | Ground | Rear wiper stop po- sition | Input | Ignition switch ON | Rear wiper stop position | 12 V |
| | | | | | Any position other than rear wiper stop position | 0 V |
| 45 (GR) | Ground | Door lock and unlock switch LOCK | Input | Door lock and unlock switch | NEUTRAL position |  1.0 - 1.5 V |
| | | | | | LOCK position | 0 V |

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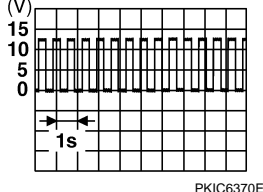
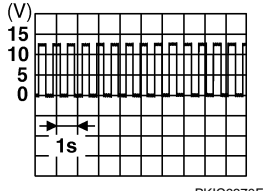
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|------------------------------------|------------------|---|---|---|
| + | - | Signal name | Input/ Output | | | |
| 46 (BR) | Ground | Door lock and unlock switch UNLOCK | Input | Door lock and unlock switch | NEUTRAL position |  1.0 - 1.5 V |
| | | | | | UNLOCK position | 0 V |
| 47 (BR/Y) | Ground | Driver door switch | Input | Driver door switch | OFF (When driver door closed) |  7.0 - 8.0 V |
| | | | | | ON (When driver door opened) | 0 V |
| 48 (W/G) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (When rear LH door closed) |  7.0 - 8.0 V |
| | | | | | ON (When rear LH door opened) | 0 V |
| 50 (SB) | Ground | A/C indicator | Output | A/C indicator | OFF | 12 V |
| | | | | | ON | 0 V |
| 54 (LG) | Ground | Rear wiper | Output | Ignition switch ON | Rear wiper switch OFF | 0 V |
| | | | | | Rear wiper switch ON | 12 V |
| 56 (L) | Ground | Interior room lamp power supply | Output | Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply) | 0 V | |
| | | | | Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply) | 12 V | |
| 57 (Y) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage | |
| 59 (L/B) | Ground | Driver door UNLOCK | Output | Driver door | UNLOCK (Actuator is activated) | 12 V |
| | | | | | Other than UNLOCK (Actuator is not activated) | 0 V |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|--|------------------|--|---|
| + | - | Signal name | Input/ Output | | |
| 60 (W/B) | Ground | Turn signal LH | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch LH |  |
| 61 (W/L) | Ground | Turn signal RH | Output | Ignition switch ON | Turn signal switch OFF 0 V |
| | | | | Turn signal switch RH |  |
| 63 (BR) | Ground | Interior room lamp control signal | Output | Interior room lamp | OFF 12 V |
| | | | | ON | 0 V |
| 65 (V) | Ground | All doors LOCK | Output | All doors | LOCK (Actuator is activat- ed) 12 V |
| | | | | Other than LOCK (Actua- tor is not activated) | 0 V |
| 66 (G) | Ground | Passenger door and rear door UNLOCK | Output | Passenger door and rear door | UNLOCK (Actuator is acti- vated) 12 V |
| | | | | Other than UNLOCK (Ac- tuator is not activated) | 0 V |
| 67 (B) | Ground | Ground | Output | Ignition switch ON | 0 V |
| 68 (L) | Ground | P/W power supply (IGN) | Output | Ignition switch ON | 12 V |
| 69 (P) | Ground | P/W power supply (BAT) | Output | Ignition switch OFF | 12 V |
| 70 (Y) | Ground | Battery power sup- ply | Input | Ignition switch OFF | Battery voltage |

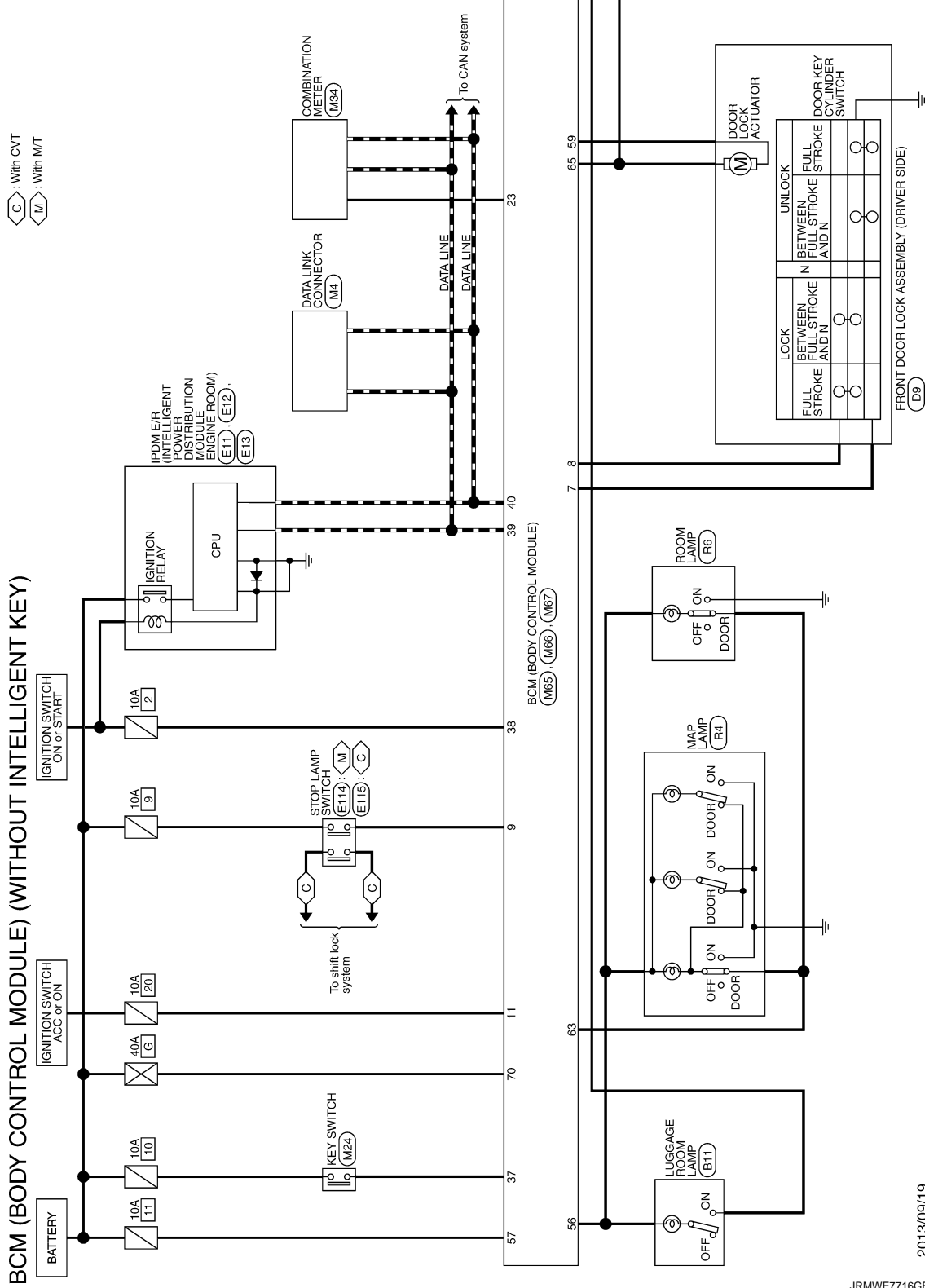
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

WITHOUT INTELLIGENT KEY : Wiring Diagram - BCM -

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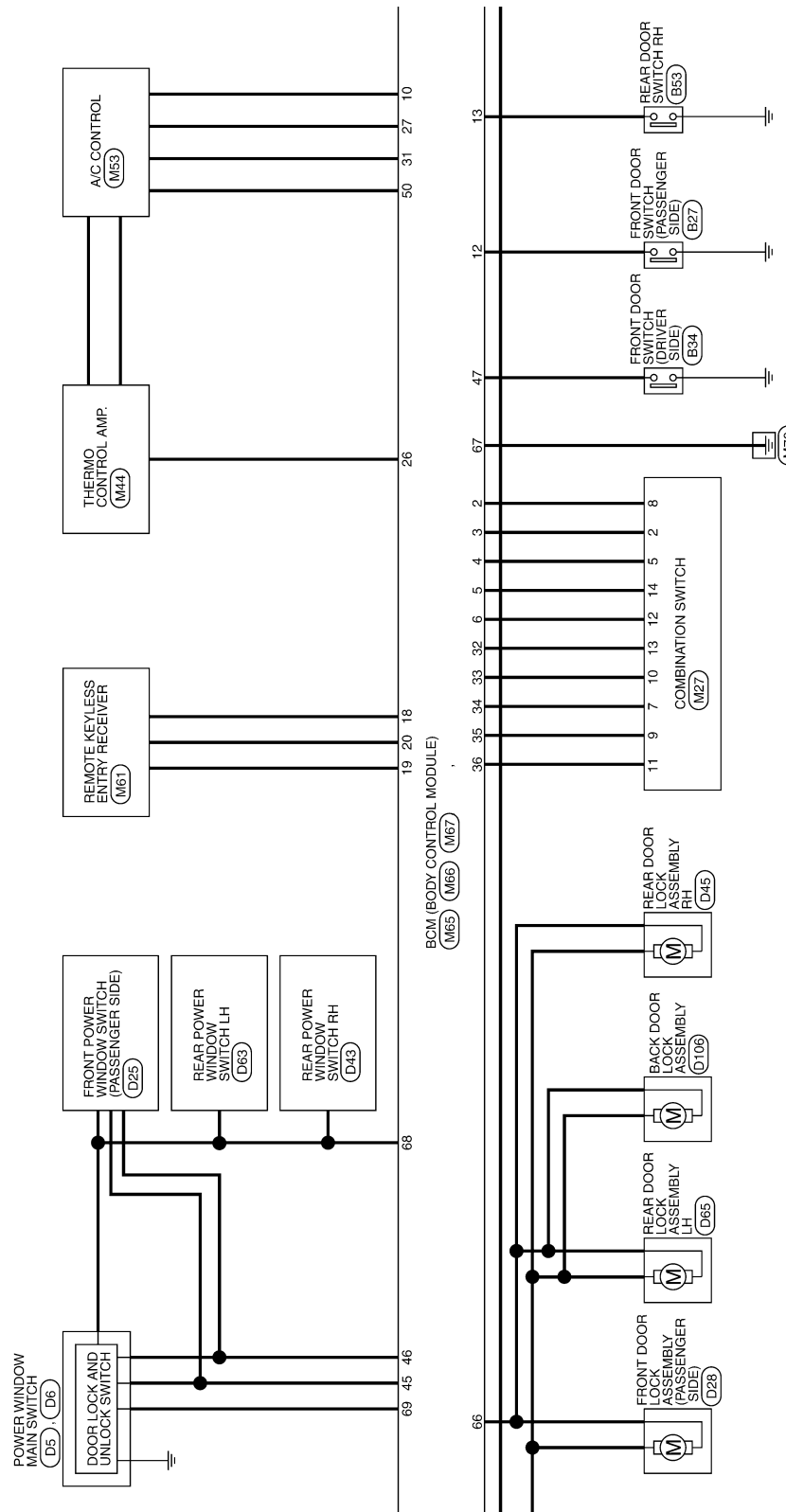


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BCM (BODY CONTROL MODULE)

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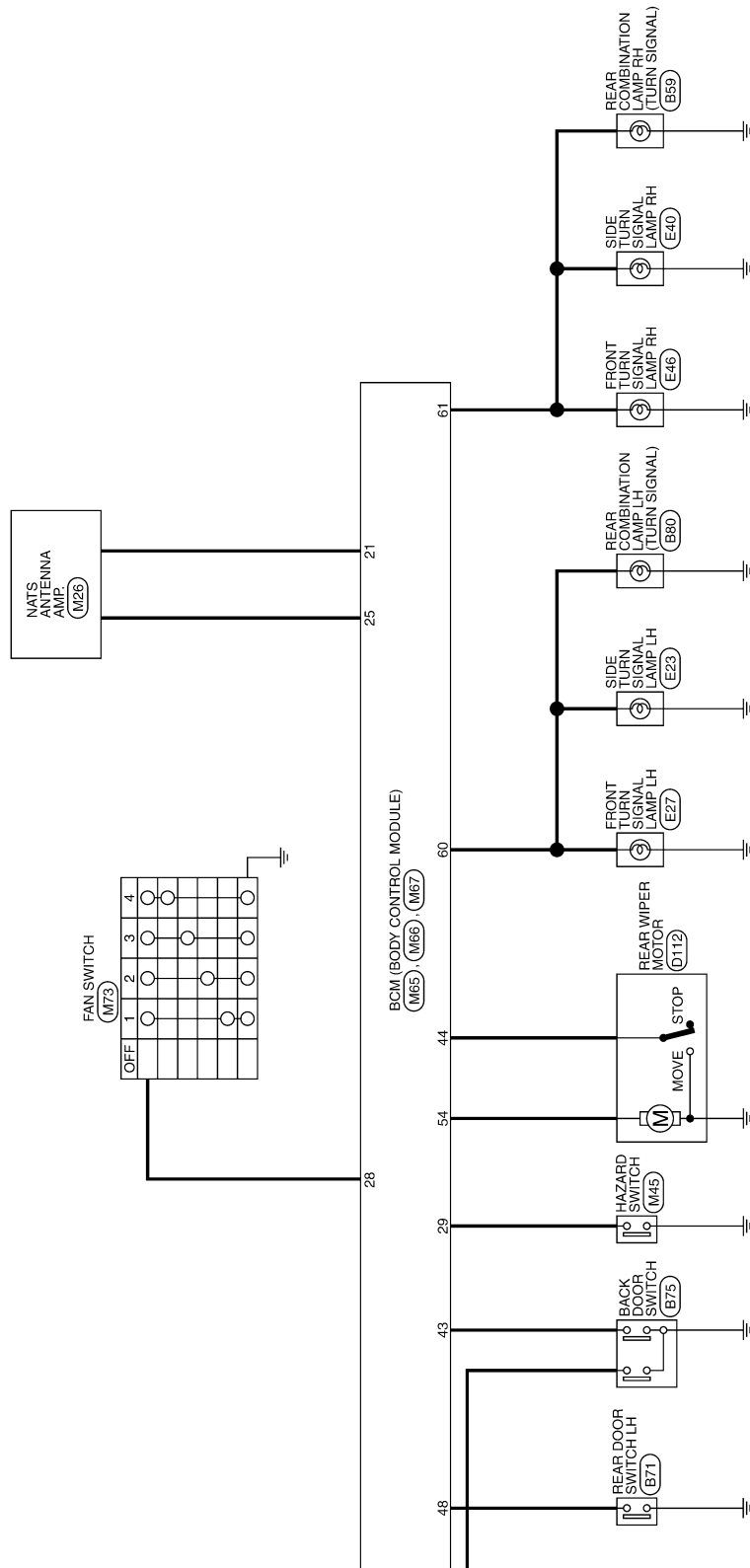


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BCM (BODY CONTROL MODULE)













< ECU DIAGNOSIS INFORMATION >



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BCM (BODY CONTROL MODULE)

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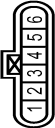

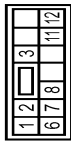

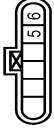

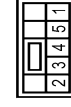

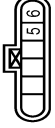

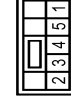


| BCM (BODY CONTROL MODULE) | | | (WITHOUT INTELLIGENT KEY) | | |
|--|-----------|------------------------------------|---|-----------|---------------------------------|
| Connector No. | B11 | LUGGAGE ROOM LAMP | Connector No. | B34 | FRONT DOOR SWITCH (DRIVER SIDE) |
| Connector Name | CJ04FW | | Connector Name | TH04FW-NH | |
| Connector Type | | | Connector Type | | |
|  | | |  | | |
|  | | |  | | |
| Terminal No. | 1 | Y | Terminal No. | 3 | LG |
| Wire | L | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B27 | FRONT DOOR SWITCH (PASSENGER SIDE) | Connector No. | B53 | REAR DOOR SWITCH-RH |
| Connector Name | TH04FW-NH | | Connector Name | TH04FW-NH | |
| Connector Type | | | Connector Type | | |
|  | | |  | | |
|  | | |  | | |
| Terminal No. | 3 | SB | Terminal No. | 3 | LG |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Connector No. | B59 | REAR COMBINATION LAMP RH | Connector No. | D5 | POWER WINDOW MAIN SWITCH |
| Connector Name | RS06FB-FR | | Connector Name | NS16FW-CS | |
| Connector Type | | | Connector Type | | |
|  | | |  | | |
|  | | |  | | |
| Terminal No. | 1 | Y | Terminal No. | 1 | R |
| Wire | L | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 2 | L | Terminal No. | 2 | LG |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 3 | W | Terminal No. | 3 | O |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 5 | Y | Terminal No. | 5 | Y |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 6 | V | Terminal No. | 6 | V |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 7 | LG | Terminal No. | 7 | LG |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 8 | BR | Terminal No. | 8 | BR |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 9 | V | Terminal No. | 9 | V |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 10 | L | Terminal No. | 10 | L |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 11 | GB | Terminal No. | 11 | GB |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 12 | SB | Terminal No. | 12 | SB |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 13 | W | Terminal No. | 13 | W |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 15 | G | Terminal No. | 15 | G |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |
| Terminal No. | 16 | W | Terminal No. | 16 | W |
| Wire | | | Wire | | |
| Signal Name [Specification] | | | Signal Name [Specification] | | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY) | | |
|---|---|---|
| Connector No. | D6 | POWER WINDOW MAIN SWITCH |
| Connector Name | POWER WINDOW MAIN SWITCH | |
| Connector Type | NS08FM-CS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 17 | B | - |
| 18 | GR | - |
| 19 | P | - |
| Connector No. | D9 | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) | |
| Connector Type | E06F-GY-RS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 1 | V | - |
| 2 | SB | - |
| 3 | G | - |
| 4 | B | - |
| 5 | L | - |
| 6 | W | - |
| Connector No. | D25 | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) |
| Connector Name | FRONT POWER WINDOW SWITCH (PASSENGER SIDE) | |
| Connector Type | NS12FM-CS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 1 | GR | - |
| 2 | BR | - |
| 3 | B | - |
| 4 | Y | - |
| 7 | R | - |
| 8 | L | - |
| 11 | SB | - |
| 12 | W | - |
| Connector No. | D28 | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) |
| Connector Name | FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE) | |
| Connector Type | E06F-GY-RS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 5 | V | - |
| 6 | Y | - |
| Connector No. | D43 | REAR POWER WINDOW SWITCH RH |
| Connector Name | REAR POWER WINDOW SWITCH RH | |
| Connector Type | NS08FM-CS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 1 | L | - |
| 2 | BR | - |
| 3 | O | - |
| 4 | G | - |
| 5 | R | - |
| Connector No. | D45 | REAR DOOR LOCK ASSEMBLY RH |
| Connector Name | REAR DOOR LOCK ASSEMBLY RH | |
| Connector Type | E06F-GY-RS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 5 | W | - |
| 6 | P | - |
| Connector No. | D63 | REAR POWER WINDOW SWITCH LH |
| Connector Name | REAR POWER WINDOW SWITCH LH | |
| Connector Type | NS08FM-CS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 1 | L | - |
| 2 | BR | - |
| 3 | O | - |
| 4 | G | - |
| 5 | R | - |
| Connector No. | D65 | REAR DOOR LOCK ASSEMBLY LH |
| Connector Name | REAR DOOR LOCK ASSEMBLY LH | |
| Connector Type | E06F-GY-RS | |
| |  |  |
| Terminal Color Of No. | Signal Name [Specification] | |
| 1 | V | - |
| 2 | G | - |

JRMWE7827GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)

| | |
|----------------|-------------------------|
| Connector No. | D106 |
| Connector Name | BACK DOOR LOCK ASSEMBLY |
| Connector Type | FEA04FB-FH2-LC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2 | GR | - |
| 3 | Y | - |

| | |
|----------------|------------------|
| Connector No. | D112 |
| Connector Name | REAR WIPER MOTOR |
| Connector Type | CJ04FM-TV |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | P | - |
| 3 | BR | - |
| 4 | LG | - |

| | |
|----------------|---|
| Connector No. | E11 |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | M06FELC |



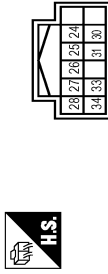
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | BTW | - |
| 10 | BTW | - |
| 13 | W | - |

| | |
|----------------|---|
| Connector No. | E12 |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS08FBCS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 18 | Y | - |
| 19 | BTW | - |
| 21 | W | - |
| 22 | V | - |

| | |
|----------------|---|
| Connector No. | E13 |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH12FM-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24 | G | - |
| 25 | Y | - |
| 26 | P | - |
| 27 | L | - |
| 28 | P | - |
| 30 | SB | - |
| 31 | W | - |
| 33 | O | - |
| 34 | R | - |

| | |
|----------------|--------------------------|
| Connector No. | E23 |
| Connector Name | SIDE TURN SIGNAL LAMP LH |
| Connector Type | STL02FW |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | BR | - |

| | |
|----------------|---------------------------|
| Connector No. | E27 |
| Connector Name | FRONT TURN SIGNAL LAMP LH |
| Connector Type | RS02FB |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | BTW | - |

| | |
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| Connector No. | E40 |
| Connector Name | SIDE TURN SIGNAL LAMP RH |
| Connector Type | STL02FW |


















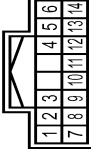











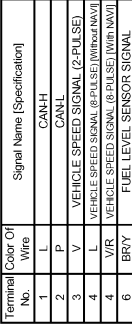
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | W | - |
| 2 | BY | - |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| BCM (BODY CONTROL MODULE) | | (WITHOUT INTELLIGENT KEY) | |
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| Connector No. | E146 | Connector No. | E115 |
| Connector Name | FRONT TURN SIGNAL LAMP RH | Connector Name | STOP LAMP SWITCH |
| Connector Type | RS02FB | Connector Type | M04FW-LC |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | W | - | |
| 2 | BY | - | |
| Connector No. E114 | | Connector No. M26 | |
| Connector Name STOP LAMP SWITCH | | Connector Name NATS ANTENNA AMP. | |
| Connector Type M02PE-LC | | Connector Type TH04FW-NH | |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | V | - | |
| 2 | W | - | |
| 3 | O | - | |
| 4 | G | - | |
| Connector No. E115 | | Connector No. M24 | |
| Connector Name FRONT TURN SIGNAL LAMP RH | | Connector Name KEY SWITCH | |
| Connector Type RS02FB | | Connector Type TK06MGY | |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | V | - | |
| 2 | W | - | |
| 3 | O | - | |
| 4 | G | - | |
| Connector No. E115 | | Connector No. M27 | |
| Connector Name FRONT TURN SIGNAL LAMP RH | | Connector Name COMBINATION SWITCH | |
| Connector Type RS02FB | | Connector Type TH04FW-NH | |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | O/B | WASHER (RR) | |
| 2 | GR | OUTPUT 4 | |
| 3 | R/G | WASHER (FR) | |
| 4 | W | IGN | |
| 5 | L/Y | OUTPUT 3 | |
| 6 | B | GROUND | |
| 7 | V | INPUT 3 | |
| 8 | BRW | OUTPUT 5 | |
| 9 | R/L | INPUT 2 | |
| 10 | Y/L | INPUT 4 | |
| 11 | L/O | INPUT 1 | |
| 12 | L/R | OUTPUT 1 | |
| 13 | LG | INPUT 5 | |
| 14 | G | OUTPUT 2 | |
| Connector No. E115 | | Connector No. M34 | |
| Connector Name FRONT TURN SIGNAL LAMP RH | | Connector Name COMBINATION METER | |
| Connector Type RS02FB | | Connector Type TH04FW-NH | |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | Y | BAT | |
| 2 | P/L | CLK | |
| 3 | B | GND (Without Intelligent Key) | |
| 4 | B | DATA (With Intelligent Key) | |
| 5 | B | GND (With Intelligent Key) | |
| 6 | L | DATA (Without Intelligent Key) | |
| 7 | GR/R | - | |
| 8 | O | - | |
| 14 | P | - | |
| 16 | LG/R | - | |
| Connector No. E115 | | Connector No. M34 | |
| Connector Name FRONT TURN SIGNAL LAMP RH | | Connector Name COMBINATION METER | |
| Connector Type RS02FB | | Connector Type TH04FW-NH | |
|  | |  | |
|  | |  | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | L | CANH | |
| 2 | P | CANL | |
| 3 | V | VEHICLE SPEED SIGNAL (2-PULSE) | |
| 4 | L | VEHICLE SPEED SIGNAL (8-PULSE) (Without NAV) | |
| 4 | VR | VEHICLE SPEED SIGNAL (8-PULSE) (With NAV) | |
| 6 | BRY | FUEL LEVEL SENSOR SIGNAL | |
| Connector No. E115 | | Connector No. M34 | |
| Connector Name FRONT TURN SIGNAL LAMP RH | | Connector Name COMBINATION METER | |
| Connector Type RS02FB | | Connector Type TH04FW-NH | |
|  | |  | |
|  | |  | |

JRMWE7829GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY)

| Connector No. | Signal Name | Terminal No. | Wire | Color | Specification |
|---------------|-------------|--------------|------|-------|--|
| 7 | R/G | | | | AIR BAG SIGNAL |
| 8 | P | | | | OVERDRIVE CONTROL SWITCH SIGNAL |
| 9 | O | | | | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) |
| 10 | SB | | | | PARKING BRAKE SWITCH SIGNAL |
| 11 | G/R | | | | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 13 | B/R | | | | ILLUMINATION CONTROL SIGNAL |
| 15 | L/Y | | | | ACC POWER SUPPLY |
| 18 | R/Y | | | | SECURITY SIGNAL |
| 19 | P/W | | | | AMBIENT SENSOR SIGNAL |
| 20 | R/W | | | | AMBIENT SENSOR GROUND |
| 21 | B | | | | GROUND |
| 22 | B | | | | GROUND |
| 23 | B | | | | GROUND |
| 24 | P/U | | | | FUEL LEVEL SENSOR GROUND |
| 25 | B | | | | VDC GROUND |
| 27 | L/G/R | | | | BATTERY POWER SUPPLY |
| 28 | GR | | | | IGNITION SIGNAL |
| 29 | BR | | | | PASSENGER SEAT BELT WARNING SIGNAL |
| 31 | R | | | | AC AUTO AMP CONNECTOR (ELECTRICAL SOURCE) |
| 35 | BR | | | | ENGINE COOLANT TEMPERATURE SIGNAL |
| 38 | GR | | | | ALTERNATOR SIGNAL |

| | |
|----------------|---------------------|
| Connector No. | M44 |
| Connector Name | THERMO CONTROL AMP. |
| Connector Type | 30PFW |



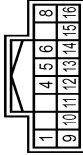
| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-------------|---------------|
| 1 | Y | | |
| 2 | GR | | |
| 3 | B | | |
| 4 | V | | |
| 5 | B/W | | |

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



| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-------------|---------------|
| 1 | B | | |
| 2 | L/W | | |
| 3 | W | | |
| 4 | B/R | | |

| | |
|----------------|-------------|
| Connector No. | M53 |
| Connector Name | A/C CONTROL |
| Connector Type | TH6FW-NH |



| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-------------|---------------|
| 1 | W | | |
| 4 | R | | |
| 5 | W/L | | |
| 6 | G/Y | | |
| 8 | G | | |
| 9 | B/R | | |
| 10 | B/W | | |
| 11 | V | | |
| 12 | Y/R | | |
| 13 | SB | | |
| 14 | Y | | |
| 15 | B | | |
| 16 | L | | |

| | |
|----------------|-------------------------------|
| Connector No. | M61 |
| Connector Name | REMOTE KEYLESS ENTRY RECEIVER |
| Connector Type | TK04FW |



| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-------------|---------------|
| 1 | V | | |
| 2 | G/Y | | |
| 4 | BR | | |

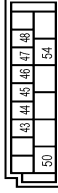
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| Connector No. | M65 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FW-NH |



| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-------------------------------------|---------------|
| 2 | BR/W | COMBI SW INPUT 5 | |
| 3 | GR | COMBI SW INPUT 4 | |
| 4 | L/Y | COMBI SW INPUT 3 | |
| 5 | G | COMBI SW INPUT 2 | |
| 6 | L/R | COMBI SW INPUT 1 | |
| 7 | W/R | KEY CYL LOCK SW | |
| 8 | W/B | KEY CYL LOCK SW | |
| 9 | R | STOP LAMP SW | |
| 10 | W/L | REAR WINDOW DEFOGGER SW | |
| 11 | L/Y | ACC POWER SUPPLY | |
| 12 | SB | PASSENGER DOOR SW | |
| 13 | GB/L | REAR RH DOOR SW | |
| 14 | V | RECEIVER SENSOR GND | |
| 19 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY | |
| 20 | G/Y | KEYLESS ENTRY RECEIVER COMM | |
| 21 | P/L | NAIS ANTENNA AMP. | |
| 23 | R/Y | SECURITY INDICATOR LAMP | |

| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|-----------------------|---------------|
| 25 | LG | NAIS ANTENNA AMP. | |
| 26 | GR | THERMO CONTROL AMP. | |
| 27 | Y/G | A/C SW | |
| 28 | G/W | BLOWER FAN SW | |
| 29 | L/W | HAZARD SW | |
| 31 | G/Y | FR DEFROSTER SW | |
| 32 | LG | COMBI SW OUTPUT 5 | |
| 33 | Y/L | COMBI SW OUTPUT 4 | |
| 34 | W | COMBI SW OUTPUT 3 | |
| 35 | R/L | COMBI SW OUTPUT 2 | |
| 36 | L/O | COMBI SW OUTPUT 1 | |
| 37 | R/W | KEY SWITCH | |
| 38 | O | IGNITION POWER SUPPLY | |
| 39 | L | CANH | |
| 40 | P | CANL | |

| | |
|----------------|---------------------------|
| Connector No. | M66 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FE40PFW-FH46-SA |



| Terminal No. | Color Of Wire | Signal Name | Specification |
|--------------|---------------|--------------------------|---------------|
| 43 | W | BACK DOOR SW | |
| 44 | LG | REAR WIPER STOP POSITION | |
| 45 | GR | CENTRAL DOOR LOCK SW | |
| 46 | BR | CENTRAL DOOR UNLOCK SW | |
| 47 | B/R | DRIVER DOOR SW | |
| 48 | W/G | REAR LH DOOR SW | |
| 50 | SB | A/C INDICATOR OUTPUT | |
| 54 | LG | REAR WIPER OUTPUT | |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >



BCM (BODY CONTROL MODULE)

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

| Terminal No. | Wire | Signal Name [Specification] |
|--------------|------|--|
| 56 | L | INTERIOR ROOM LAMP POWER SUPPLY |
| 57 | Y | BAT (ELISE) |
| 59 | L/B | DRIVER DOOR UNLOCK OUTPUT |
| 60 | W/B | TURN SIGNAL LH OUTPUT |
| 61 | W/L | TURN SIGNAL RH OUTPUT |
| 63 | BR | ROOM LAMP TIMER CONTROL |
| 65 | V | ALL DOOR LOCK OUTPUT |
| 66 | G | PASSENGER DOOR REAR DOOR UNLOCK OUTPUT |
| 67 | B | GROUND |
| 68 | L | POWER WINDOW POWER SUPPLY (IGN) |
| 69 | P | POWER WINDOW POWER SUPPLY (BAT) |
| 70 | Y | BAT (FL) |


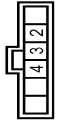
| | |
|----------------|------------|
| Connector No. | M73 |
| Connector Name | FAN SWITCH |
| Connector Type | M08FW-LC |

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



(WITHOUT INTELLIGENT KEY)

| | |
|----------------|----------|
| Connector No. | R4 |
| Connector Name | MAP LAMP |
| Connector Type | GAA06FW |

| Terminal No. | Wire | Signal Name [Specification] |
|--------------|------|-----------------------------|
| 2 | LG | - |
| 3 | B | - |
| 4 | Y | - |

| | |
|----------------|-----------|
| Connector No. | R6 |
| Connector Name | ROOM LAMP |
| Connector Type | C02FW |

| Terminal No. | Wire | Signal Name [Specification] |
|--------------|------|-----------------------------|
| 1 | Y | - |
| 2 | BR | - |

WITHOUT INTELLIGENT KEY : Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JRMWE7831GB

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| Display contents of CONSULT | Fail-safe | Cancellation |
|-----------------------------|-------------------------|--------------------------|
| B2190: NATS ANTENNA AMP | Inhibit engine cranking | Erase DTC |
| B2191: DIFFERENCE OF KEY | Inhibit engine cranking | Erase DTC |
| B2192: ID DISCORD BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2193: CHAIN OF BCM-ECM | Inhibit engine cranking | Erase DTC |
| B2195: ANTI SCANNING | Inhibit engine cranking | Ignition switch ON → OFF |

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal.

When the rear wiper auto stop 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

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

WITHOUT INTELLIGENT KEY : DTC Inspection Priority Chart

INFOID:0000000010249361

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

| Priority | DTC |
|----------|---|
| 1 | <ul style="list-style-type: none"> • U1000: CAN COMM • U1010: CONTROL UNIT (CAN) |
| 2 | <ul style="list-style-type: none"> • B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING |
| 3 | C1735: IGN CIRCUIT OPEN |
| 4 | <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: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1729: VHCL SPEED SIG ERR |

WITHOUT INTELLIGENT KEY : DTC Index

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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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

| CONSULT display | Fail-safe | Tire pressure monitor warn- ing lamp ON | Reference |
|----------------------------|-----------|---|-------------------------|
| U1000: CAN COMM | — | — | BCS-120 |
| U1010: CONTROL UNIT (CAN) | — | — | BCS-121 |
| B2190: NATS ANTENNA AMP | × | — | SEC-197 |
| B2191: DIFFERENCE OF KEY | × | — | SEC-200 |
| B2192: ID DISCORD BCM-ECM | × | — | SEC-201 |
| B2193: CHAIN OF BCM-ECM | × | — | SEC-202 |
| B2195: ANTI SCANNING | × | — | SEC-203 |
| C1704: LOW PRESSURE FL | — | × | WT-26 |
| C1705: LOW PRESSURE FR | — | × | |
| C1706: LOW PRESSURE RR | — | × | |
| C1707: LOW PRESSURE RL | — | × | |
| C1708: [NO DATA] FL | — | × | WT-28 |
| C1709: [NO DATA] FR | — | × | |
| C1710: [NO DATA] RR | — | × | |
| C1711: [NO DATA] RL | — | × | |
| C1716: [PRESS DATA ERR] FL | — | × | WT-31 |
| C1717: [PRESS DATA ERR] FR | — | × | |
| C1718: [PRESS DATA ERR] RR | — | × | |
| C1719: [PRESS DATA ERR] RL | — | × | |
| C1729: VHCL SPEED SIG ERR | — | × | WT-33 |
| C1735: IGN CIRCUIT OPEN | — | — | BCS-122 |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

WITH INTELLIGENT KEY

WITH INTELLIGENT KEY : Reference Value

INFOID:0000000010249367

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item | Condition | | Value/Status |
|---------------|---|--|--------------|
| MOTOR FAN REQ | Engine idle speed | Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc. | 1/2/3/4 |
| AC COMP REQ | Engine running | A/C switch OFF | Off |
| | | A/C switch ON (Compressor is operating) | On |
| TAIL&CLR REQ | Lighting switch OFF | | Off |
| | Lighting switch 1ST, 2ND, HI or AUTO (Light is illuminated) | | On |
| HL LO REQ | Lighting switch OFF | | Off |
| | Lighting switch 2ND, HI or AUTO (Light is illuminated) | | On |
| HL HI REQ | Lighting switch OFF | | Off |
| | Lighting switch HI | | On |
| FR FOG REQ | Lighting switch 2ND or AUTO (Light is illuminated) | Front fog lamp switch OFF | Off |
| | | Front fog lamp switch ON | On |
| FR WIP REQ | Ignition switch ON | Front wiper switch OFF | Stop |
| | | Front wiper switch INT | 1LOW |
| | | Front wiper switch LO | Low |
| | | Front wiper switch HI | Hi |
| WIP AUTO STOP | Ignition switch ON | Front wiper stop position | STOP P |
| | | Any position other than front wiper stop position | ACT P |
| WIP PROT | Ignition switch ON | Front wiper operates normally | Off |
| | | Front wiper stops at fail-safe operation | BLOCK |
| IGN RLY1 -REQ | Ignition switch OFF or ACC | | Off |
| | Ignition switch ON | | On |
| IGN RLY | Ignition switch OFF or ACC | | Off |
| | Ignition switch ON | | On |
| PUSH SW | Release the push-button ignition switch | | Off |
| | Press the push-button ignition switch | | On |
| INTER/NP SW | Ignition switch ON | <ul style="list-style-type: none"> Selector lever in any position other than P or N (CVT models) Release clutch pedal (M/T models) | Off |
| | | <ul style="list-style-type: none"> Selector lever in P or N position (CVT models) Depress clutch pedal (M/T models) | On |

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

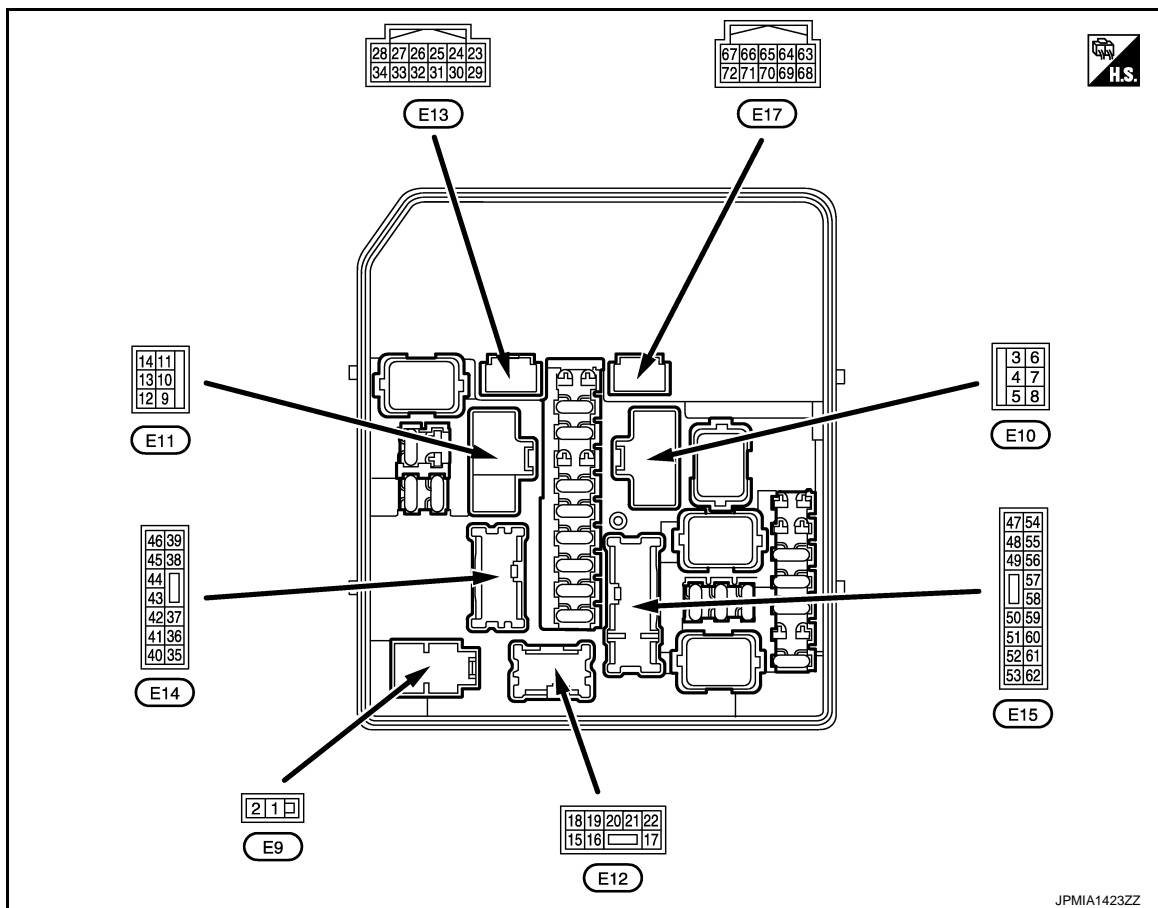
< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Condition | Value/Status |
|---------------|---|-----------------|
| ST RLY CONT | Ignition switch ON | Off |
| | At engine cranking | On |
| IHBT RLY -REQ | Ignition switch ON | Off |
| | At engine cranking | On |
| ST/INHI RLY | Ignition switch ON | Off |
| | At engine cranking | INHI ON → ST ON |
| | The status of starter relay or starter control relay cannot be recognized by the battery voltage malfunction, etc. when the starter relay is ON and the starter control relay is OFF | UNKWN |
| DETENT SW | Ignition switch ON <ul style="list-style-type: none"> • Pull the selector lever with selector lever in P position • Selector lever in any position other than P | Off |
| | Release the selector lever with selector lever in P position NOTE: Fixed On for M/T models | On |
| S/L RLY -REQ | NOTE: The item is indicated, but not monitored. | Off |
| S/L STATE | NOTE: The item is indicated, but not monitored. | UNLOCK |
| DTRL REQ | NOTE: The item is indicated, but not monitored. | Off |
| OIL P SW | Ignition switch OFF, ACC or engine running | Open |
| | Ignition switch ON | Close |
| HOOD SW | NOTE: The item is indicated, but not monitored. | Off |
| THFT HRN REQ | Not operation | Off |
| | <ul style="list-style-type: none"> • Panic alarm is activated • Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM | On |
| HORN CHIRP | Not operating | Off |
| | Door locking with Intelligent Key (horn chirp mode) | On |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT



PHYSICAL VALUES

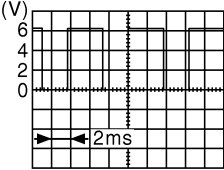
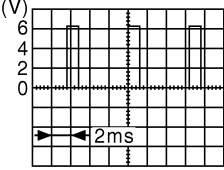
| Terminal NO. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------------|------------------|-------------------------|--------------------|
| + | - | Signal name | Input/ Output | | |
| 1 (R) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 2 (G) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 3 (BR) | Ground | Starter motor | Output | Ignition switch ON | 0 V |
| | | | | At engine cranking | Battery voltage |
| 4 (P) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 5 (LG) | Ground | Cooling fan relay-1 power supply | Output | Cooling fan OFF | 0 V |
| | | | | Cooling fan operated | Battery voltage |
| 7 (Y) | Ground | Cooling fan relay-2 power supply | Output | Cooling fan OFF | 0 V |
| | | | | Cooling fan LO operated | 9.0 V |
| | | | | Cooling fan HI operated | Battery voltage |
| 8 (V) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 9 (B/W) | Ground | Ground | — | Ignition switch ON | 0 V |
| 10 (L) | Ground | Cooling fan motor ground | Output | Cooling fan OFF | 0 V |
| | | | | Cooling fan LO operated | 5.0 V |
| | | | | Cooling fan HI operated | 0 V |

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---------------------------------|------------------|--|---|--------------------|
| | | | | | | |
| | | Signal name | Input/ Output | | | |
| 13 (W) | Ground | Rear window defogger | Output | Ignition switch OFF | Rear window defogger switch OFF | 0 V |
| | | | | Ignition switch ON | Rear window defogger switch ON | Battery voltage |
| 19 (B/W) | Ground | Ground | — | Ignition switch ON | | 0 V |
| 21 (W) | Ground | Front fog lamp (RH) | Output | Lighting switch 2ND OFF | Front fog lamp switch OFF | 0 V |
| | | | | Lighting switch 2ND ON | Front fog lamp switch ON | Battery voltage |
| 22 (V) | Ground | Front fog lamp (LH) | Output | Lighting switch 2ND OFF | Front fog lamp switch OFF | 0 V |
| | | | | Lighting switch 2ND ON | Front fog lamp switch ON | Battery voltage |
| 24 (G) | Ground | Oil pressure switch | Input | Ignition switch ON | Engine stopped | 0 V |
| | | | | Ignition switch OFF | Engine running | Battery voltage |
| 25 (Y) | Ground | Front wiper auto stop | Input | Ignition switch ON | Front wiper stop position | 0 V |
| | | | | Ignition switch OFF | Any position other than front wiper stop position | Battery voltage |
| 26 (P) | Ground | CAN-L | Input/ Output | — | | — |
| 27 (L) | Ground | CAN-H | Input/ Output | — | | — |
| 30 (SB) | Ground | Starter relay control | Output | At engine cranking | | 0 V |
| | | | | Ignition switch ON | | Battery voltage |
| 31 (W) | Ground | Fuel pump relay control | Output | <ul style="list-style-type: none"> • Approximately 1 second after turning the ignition switch ON • Engine running | | 0 - 1.5 V |
| | | | | Approximately 1 second or more after turning the ignition switch ON | | Battery voltage |
| 33 (O) | Ground | Power generation command signal | Output | Ignition switch ON | | Battery voltage |
| | | | | 40 % is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"  <small style="float: right;">JPMIA0002GB</small> | | 3.8 V |
| | | | | 80 % is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE"  <small style="float: right;">JPMIA0003GB</small> | | 1.4 V |
| 34 (R) | Ground | Horn relay control | Output | The horn is deactivated | | Battery voltage |
| | | | | The horn is activated | | 0 V |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | | Value (Approx.) | |
|------------------------------|--------|---|------------------|--------------------|---|--------------------|-----|
| + | - | Signal name | Input/ Output | | | | |
| 36 (O) | Ground | Parking lamp (LH) | Output | Ignition switch ON | Lighting switch OFF | 0 V | A |
| | | | | | Lighting switch 1ST | Battery voltage | B |
| 37 (V) | Ground | Parking lamp (RH) | Output | Ignition switch ON | Lighting switch OFF | 0 V | C |
| | | | | | Lighting switch 1ST | Battery voltage | |
| 38 (G) | Ground | Tail lamp (RH) & illuminations | Output | Ignition switch ON | Lighting switch OFF | 0 V | D |
| | | | | | Lighting switch 1ST | Battery voltage | |
| 39 (V) | Ground | Front wiper HI | Output | Ignition switch ON | Front wiper switch OFF | 0 V | E |
| | | | | | Front wiper switch HI | Battery voltage | |
| 40 (R) | Ground | ECM relay control | Output | | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | Battery voltage | F |
| | | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | 0 - 1.5 V | G |
| 41 (SB) | Ground | Tail lamp (LH) & license plate lamps | Output | Ignition switch ON | Lighting switch OFF | 0 V | H |
| | | | | | Lighting switch 1ST | Battery voltage | |
| 43 (G) | Ground | ECM relay power supply | Output | | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | 0 V | I |
| | | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | Battery voltage | J |
| 44 (P) | Ground | ECM relay power supply | Output | | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | 0 V | K |
| | | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | Battery voltage | EXL |
| 45 (Y) | Ground | TCM power supply | Output | | Ignition switch OFF | Battery voltage | M |
| 46 (O) | Ground | Front wiper LO | Output | Ignition switch ON | Front wiper switch OFF | 0 V | |
| | | | | | Front wiper switch LO | Battery voltage | N |
| 47 (BR) | Ground | Transmission range switch ^{*1} | Input | | Select lever in any position other than P or N (Ignition switch ON) | 0 V | |
| | | | | | Select lever P or N (Ignition switch ON) | Battery voltage | O |
| | | Clutch interlock switch ^{*2} | | | Release the clutch pedal | 0 V | |
| | | | | | Depress the clutch pedal | Battery voltage | P |
| 49 (W) | Ground | Headlamp HI (RH) | Output | Ignition switch ON | Lighting switch OFF | 0 V | |
| | | | | | <ul style="list-style-type: none"> Lighting switch HI Lighting switch PASS | Battery voltage | |
| 50 (GR) | Ground | Headlamp HI (LH) | Output | Ignition switch ON | Lighting switch OFF | 0 V | |
| | | | | | <ul style="list-style-type: none"> Lighting switch HI Lighting switch PASS | Battery voltage | |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|--|------------------|--------------------------|---|---|
| + | - | Signal name | Input/ Output | | | |
| 51 (R) | Ground | Headlamp LO (LH) | Output | Ignition switch ON | Lighting switch OFF | 0 V |
| | | | | | Lighting switch 2ND | Battery voltage |
| 52 (P) | Ground | Headlamp LO (RH) | Output | Ignition switch ON | Lighting switch OFF | 0 V |
| | | | | | Lighting switch 2ND | Battery voltage |
| 54 (GR) | Ground | Throttle control motor relay power supply | Output | | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | 0 V |
| | | | | | • Ignition switch ON • Ignition switch OFF (For a few seconds after turning ig- nition switch OFF) | Battery voltage |
| 55 (P) | Ground | Fuel pump power sup- ply | Output | | Approximately 1 second or more than after turning the ignition switch ON | 0 V |
| | | | | | • Approximately 1 second after turn- ing the ignition switch ON • Engine running | Battery voltage |
| 56 (SB) | Ground | A/C relay power supply | Output | Engine running | A/C switch OFF | 0 V |
| | | | | | A/C switch ON (A/C compressor is oper- ating) | Battery voltage |
| 57 (G) | Ground | Throttle control motor relay control | Output | | Ignition switch ON → OFF | 0 - 1.0 V ↓ Battery voltage ↓ 0 V |
| | | | | | Ignition switch ON | 0 - 1.0 V |
| 58 (R) | Ground | Ignition relay power supply | Output | | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 59 (Y) | Ground | Ignition relay power supply | Output | | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 60 (V) | Ground | Ignition relay power supply | Output | | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 61 (W) | Ground | Ignition relay power supply | Output | | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 62 (L) | Ground | Ignition relay power supply | Output | | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 64*1 (R) | Ground | CVT shift selector (Detention switch) | Input | Ignition switch ON | Select lever P | 0 V |
| | | | | | Select lever in any posi- tion other than P | Battery voltage |
| 66 (L) | Ground | Push-button ignition switch | Input | | Press the push-button ignition switch | 0 V |
| | | | | | Release the push-button ignition switch | Battery voltage |
| 69 (O) | Ground | Ignition relay monitor | Input | | Ignition switch OFF or ACC | Battery voltage |
| | | | | | Ignition switch ON | 0 V |

*1: CVT models

*2: M/T models

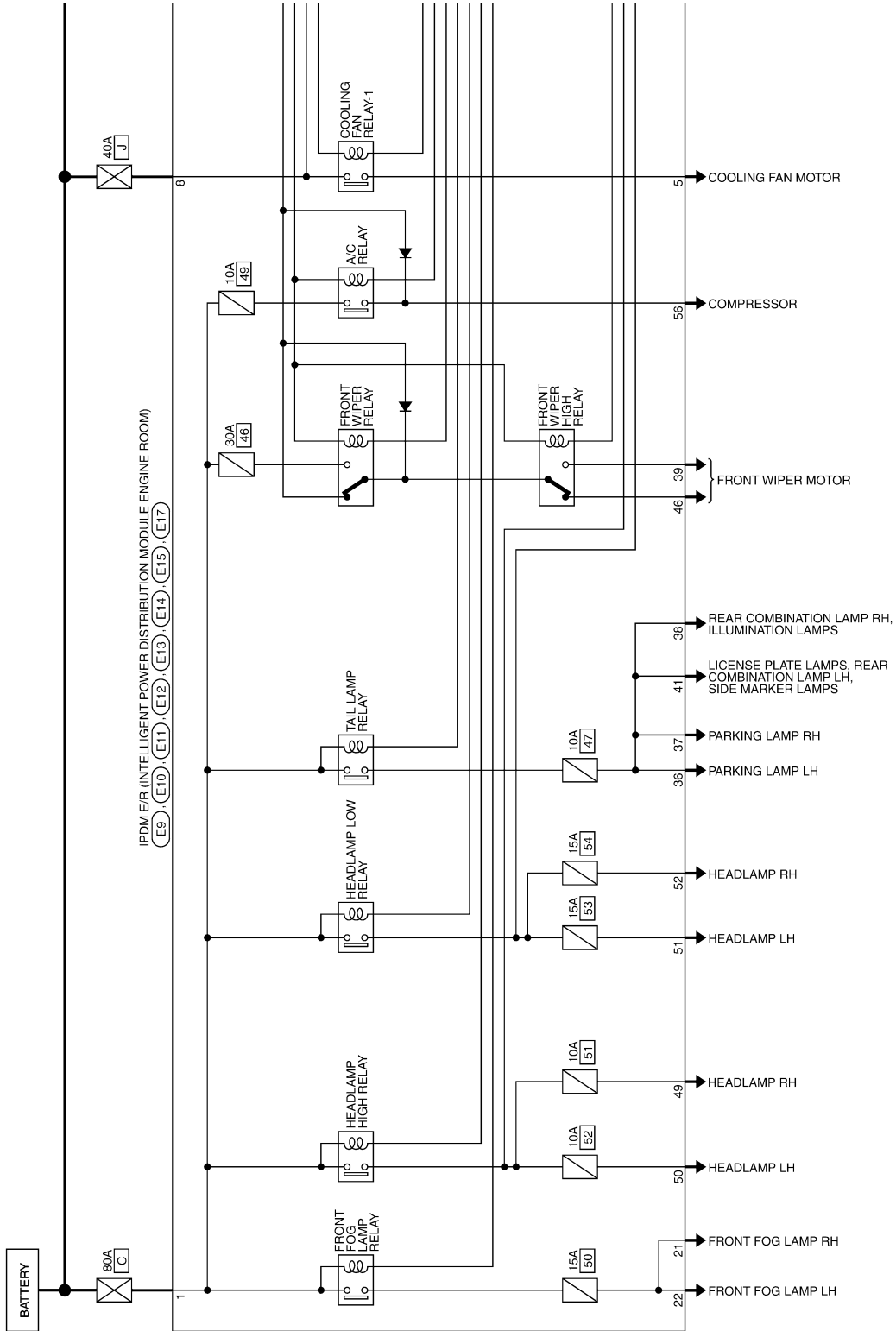
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

WITH INTELLIGENT KEY : Wiring Diagram — IPDM E/R —

INFOID:000000010249368

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (WITH INTELLIGENT KEY)



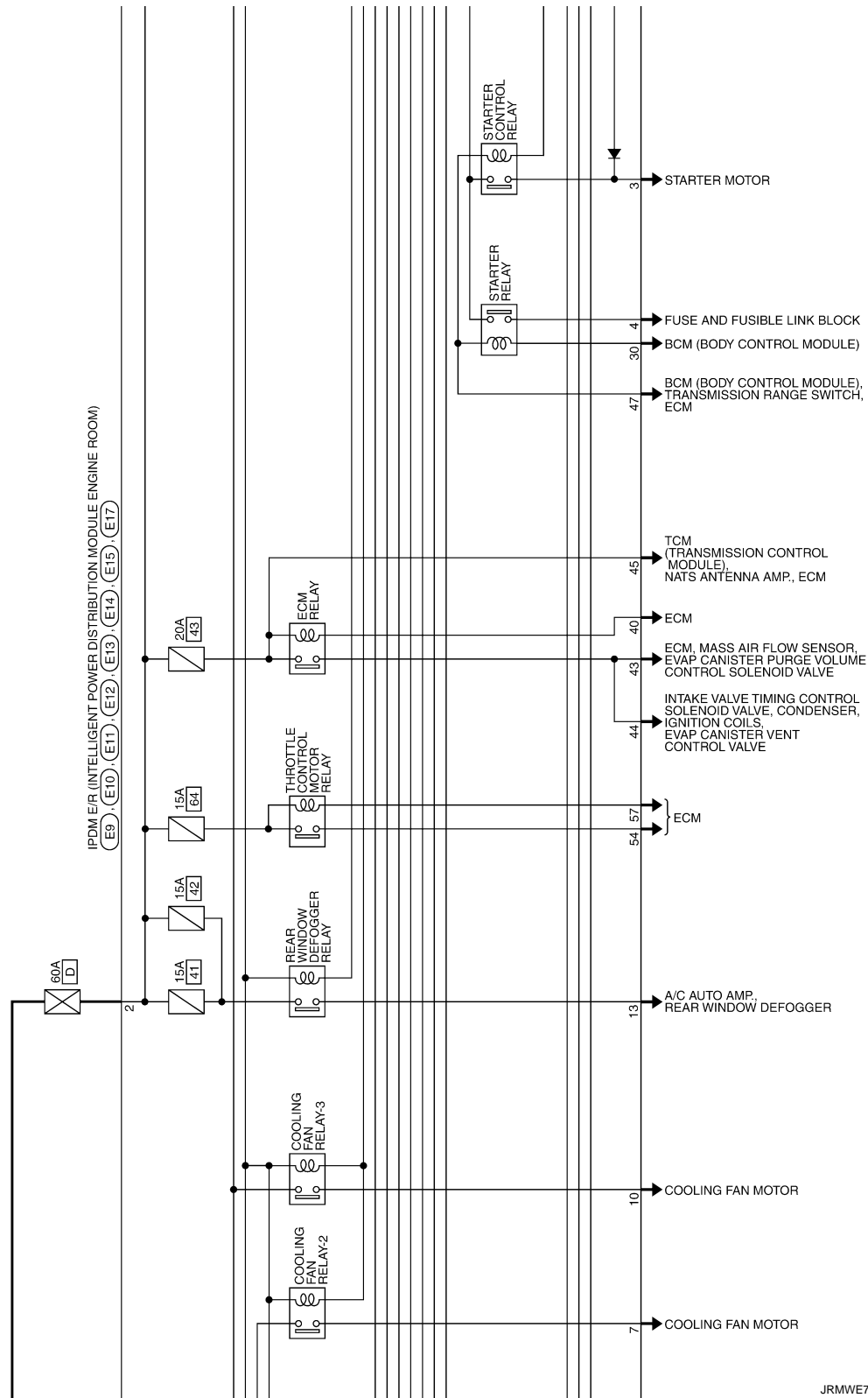
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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

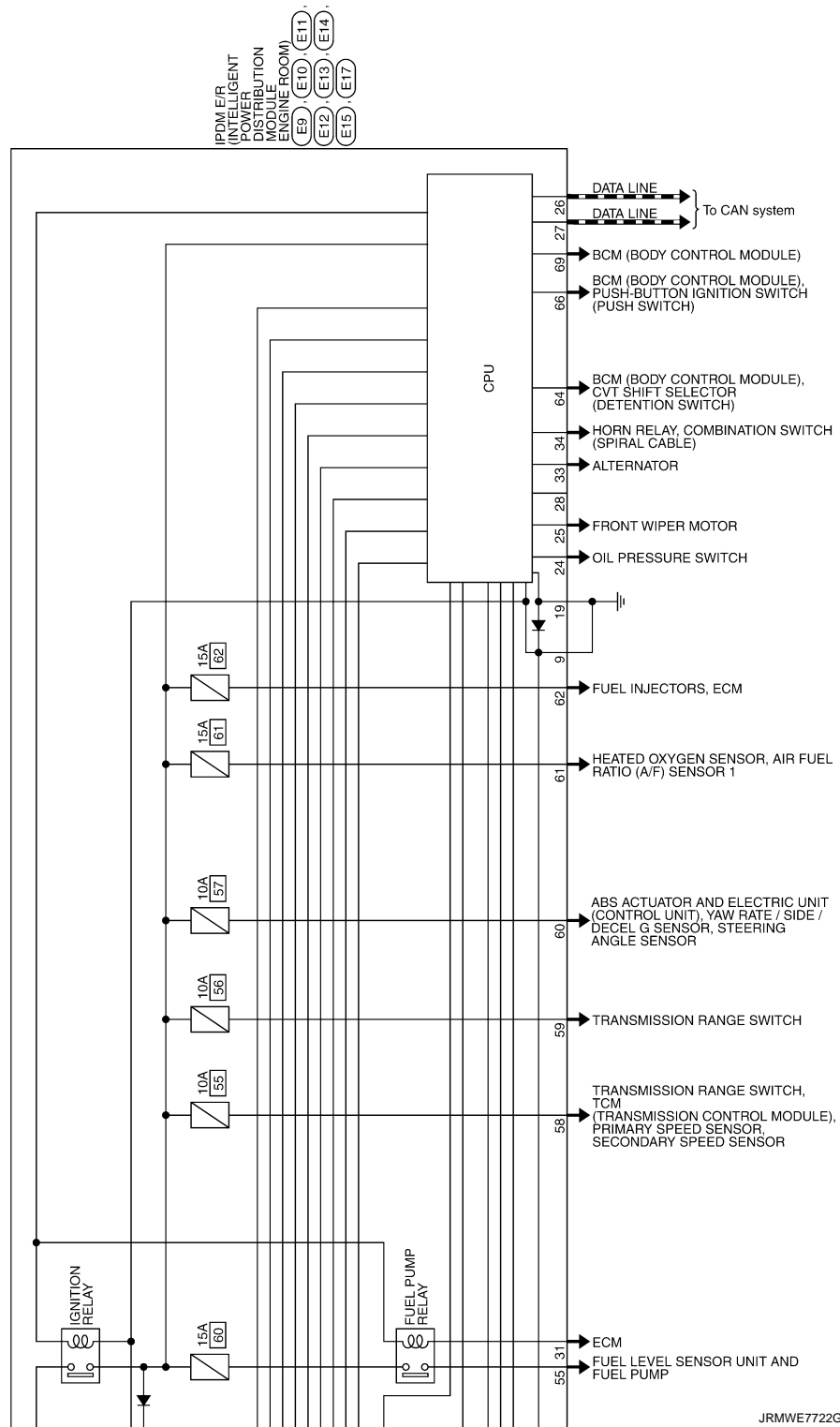
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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >








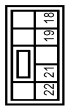





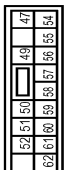

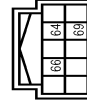


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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (WITH INTELLIGENT KEY) | | | |
|---|------------|--|--|
| Connector No. | E9 | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | |
| Connector Name | L02FB-MC | | |
| Connector Type | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 1 | R | - | |
| 2 | G | - | |
| Connector No. E10 Connector Name IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) Connector Type M06FB-LC | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 3 | BR | - | |
| 4 | P | - | |
| 5 | LG | - | |
| 6 | SB | - | |
| 7 | Y | - | |
| 8 | V | - | |
| Connector No. | E11 | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | |
| Connector Name | M06FB-LC | | |
| Connector Type | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 9 | BAW | - | |
| 10 | L | - | |
| 13 | W | - | |
| Connector No. E12 Connector Name IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) Connector Type NS08FB-RCS | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 18 | Y | - | |
| 19 | BAW | - | |
| 21 | W | - | |
| 22 | V | - | |
| Connector No. | E13 | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | |
| Connector Name | TH12FB-NH | | |
| Connector Type | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 24 | G | - | |
| 25 | Y | - | |
| 26 | P | - | |
| 27 | L | - | |
| 28 | B | - | |
| 30 | SB | - | |
| 31 | W | - | |
| 33 | O | - | |
| 34 | R | - | |
| Connector No. E14 Connector Name IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) Connector Type NS12FB-RCS | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 36 | O | - | |
| 37 | V | - | |
| 38 | G | - | |
| 39 | V | - | |
| 40 | R | - | |
| 41 | SB | - | |
| 43 | G | - | |
| 44 | B | - | |
| 45 | Y | - | |
| 46 | O | - | |
| Connector No. | E15 | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | |
| Connector Name | NS18FB-LCS | | |
| Connector Type | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 47 | BR | - | |
| 49 | W | - | |
| 50 | GR | - | |
| 51 | R | - | |
| 52 | B | - | |
| 54 | GR | - | |
| 55 | P | - | |
| 56 | SB | - | |
| 57 | G | - | |
| 58 | LG | - [With M/T] | |
| 59 | R | - [With CVT] | |
| 60 | V | - | |
| 61 | W | - | |
| 62 | L | - | |
| Connector No. E17 Connector Name IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) Connector Type TH10FB-NH | | | |
|   | | | |
| Terminal No. | Wire | Signal Name [Specification] | |
| 64 | R | - | |
| 66 | L | - | |
| 69 | O | - | |

JRMWE7835GB

INFOID:000000010249369

WITH INTELLIGENT KEY : Fail-Safe

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Control part | Fail-safe operation |
|----------------|---|
| Cooling fan | <ul style="list-style-type: none"> The cooling fan relay-1, the cooling fan relay-2 and the cooling fan relay-3 turn ON when the ignition switch is turned ON (Cooling fan HI operation) The cooling fan relay-1, the cooling fan relay-2 and the cooling fan relay-3 turn OFF when the ignition switch is turned OFF |
| A/C compressor | A/C relay OFF |
| Alternator | Outputs the power generation command signal (PWM signal) 0% |

If No CAN Communication Is Available With BCM

| Control part | Fail-safe operation |
|--|--|
| Headlamp | <ul style="list-style-type: none"> Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF |
| <ul style="list-style-type: none"> Parking lamps Side marker lamps License plate lamps Illuminations Tail lamps | <ul style="list-style-type: none"> Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF |
| Front wiper | <ul style="list-style-type: none"> The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating. |
| Front fog lamps | Front fog lamp relay OFF |
| Horn | Horn OFF |
| Ignition relay | The status just before activation of fail-safe is maintained. |
| Starter motor | Starter control relay OFF |

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit and excitation coil circuit of the ignition relay inside it.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the excitation coil circuit.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

| Voltage judgment | | IPDM E/R judgment | Operation |
|-----------------------------|-------------------------------------|---------------------------|--|
| Ignition relay contact side | Ignition relay excitation coil side | | |
| ON | ON | Ignition relay ON normal | — |
| OFF | OFF | Ignition relay OFF normal | — |
| ON | OFF | Ignition relay ON stuck | <ul style="list-style-type: none"> Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay for 10 minutes |
| OFF | ON | Ignition relay OFF stuck | Detects DTC "B2099: IGN RELAY OFF" |

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal. When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

| Ignition switch | Front wiper switch | Front wiper stop position signal |
|-----------------|--------------------|--|
| ON | OFF | The front wiper stop position signal (stop position) cannot be input for 10 seconds. |
| | ON | The front wiper stop position signal does not change for 10 seconds. |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

NOTE:

This operation status can be confirmed on the IPDM E/R “Data Monitor” that displays “BLOCK” for the item “WIP PROT” while the wiper is stopped.

STARTER MOTOR PROTECTION FUNCTION

IPDM E/R turns OFF the starter control relay to protect the starter motor when the starter control relay remains active for 90 seconds.

WITH INTELLIGENT KEY : DTC Index

INFOID:0000000010249370

NOTE:

- The details of time display are as follows.
 - CRNT: A malfunction is detected now.
 - PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
 - The number is 0 when is detected now.
 - The number increases like 1 → 2 ... 38 → 39 after returning to the normal condition whenever IGN OFF → ON.
 - The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

×: Applicable

| CONSULT display | Fail-safe | Refer to |
|--|-----------|------------------------|
| No DTC is detected. further testing may be required. | — | — |
| U1000: CAN COMM CIRCUIT | × | PCS-15 |
| B2098: IGN RELAY ON CIRC | × | PCS-16 |
| B2099: IGN RELAY OFF CIRC | — | PCS-18 |
| B210B: STR CONT RLY ON CIRC | — | SEC-76 |
| B210C: STR CONT RLY OFF CIRC | — | SEC-77 |
| B210D: STARTER RLY ON CIRC | — | SEC-78 |
| B210E: STARTER RLY OFF CIRC | — | SEC-79 |
| B210F: INTRLCK/PNP SW ON | — | SEC-81 |
| B2110: INTRLCK/PNP SW OFF | — | SEC-83 |

WITHOUT INTELLIGENT KEY

WITHOUT INTELLIGENT KEY : Reference Value

INFOID:0000000010249371

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor Item | Condition | | Value/Status |
|---------------|---|--|--------------|
| MOTOR FAN REQ | Engine idle speed | Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc. | 1/2/3/4 |
| AC COMP REQ | Engine running | A/C switch OFF | Off |
| | | A/C switch ON (Compressor is operating) | On |
| TAIL&CLR REQ | Lighting switch OFF | | Off |
| | Lighting switch 1ST, 2ND, HI or AUTO (Light is illuminated) | | On |
| HL LO REQ | Lighting switch OFF | | Off |
| | Lighting switch 2ND, HI or AUTO (Light is illuminated) | | On |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

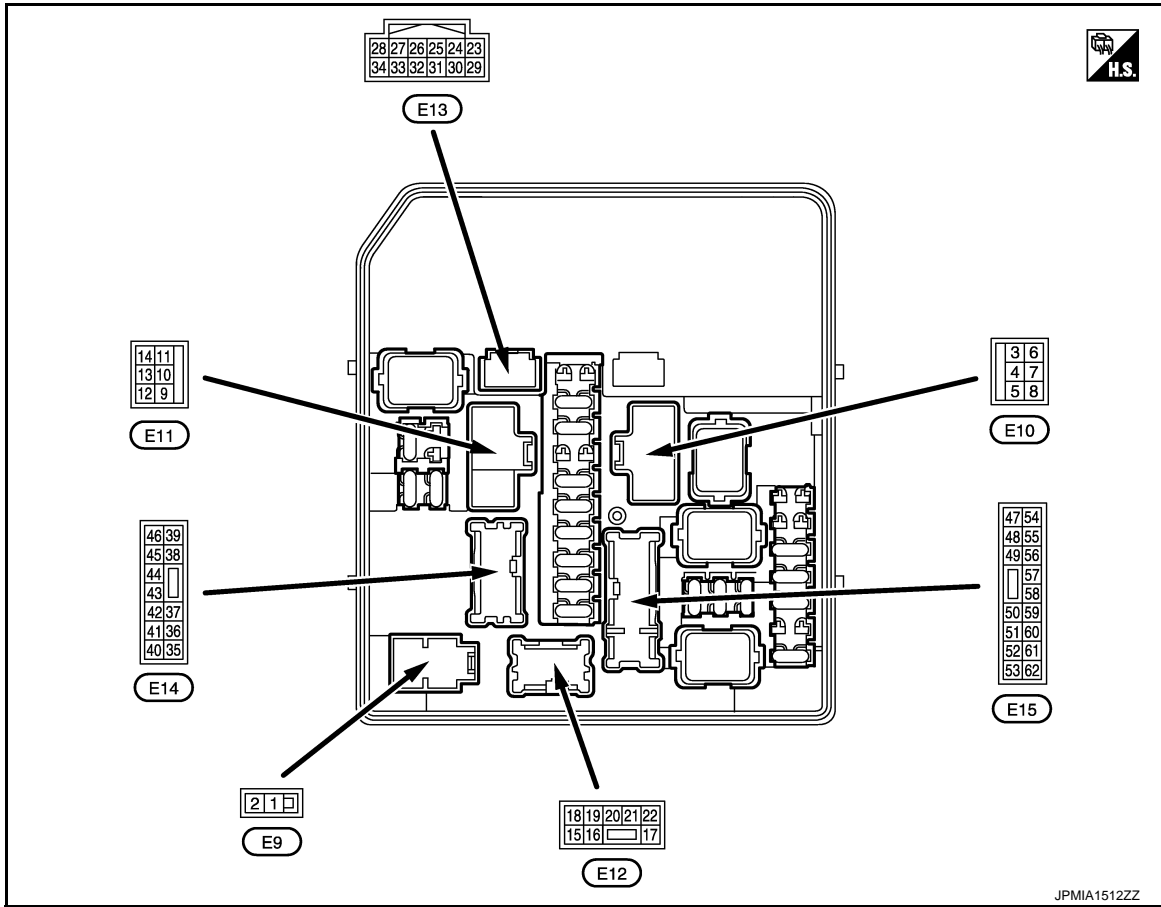
| Monitor Item | Condition | | Value/Status | |
|---------------|--|---|--------------|-----|
| HL HI REQ | Lighting switch OFF | | Off | A |
| | Lighting switch HI | | On | |
| FR FOG REQ | Lighting switch 2ND or AUTO (Light is illuminated) | Front fog lamp switch OFF | Off | B |
| | | Front fog lamp switch ON | On | |
| FR WIP REQ | Ignition switch ON | Front wiper switch OFF | Stop | C |
| | | Front wiper switch INT | 1LOW | |
| | | Front wiper switch LO | Low | |
| | | Front wiper switch HI | Hi | D |
| WIP AUTO STOP | Ignition switch ON | Front wiper stop position | STOP P | |
| | | Any position other than front wiper stop position | ACT P | E |
| WIP PROT | Ignition switch ON | Front wiper operates normally | Off | |
| | | Front wiper stops at fail-safe operation | BLOCK | F |
| IGN RLY | Ignition switch OFF or ACC | | Off | |
| | Ignition switch ON | | On | |
| INTER/NP SW | Ignition switch ON | Selector lever in any position other than P or N (CVT models) | Off | G |
| | | Selector lever in P or N position (CVT models) | On | H |
| ST RLY -REQ | Ignition switch OFF or ACC | | Off | |
| | Ignition switch ON | | On | I |
| DTRL REQ | NOTE: The item is indicated, but not monitored. | | Off | |
| OIL P SW | Ignition switch OFF, ACC or engine running | | Open | J |
| | Ignition switch ON | | Close | |
| HOOD SW | NOTE: The item is indicated, but not monitored. | | Off | K |
| THFT HRN REQ | Not operation | | Off | |
| | <ul style="list-style-type: none"> Panic alarm is activated Horn is activated with VEHICLE SECURITY (THEFT WARNING) SYSTEM | | On | EXL |
| HORN CHIRP | Not operating | | Off | |
| | Door locking with key fob (horn chirp mode) | | On | M |

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

TERMINAL LAYOUT

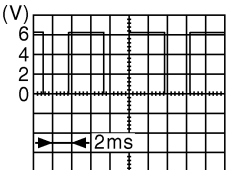
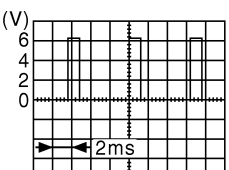


PHYSICAL VALUES

| Terminal NO. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|-------------------------------------|------------------|---|--------------------|
| + | - | Signal name | Input/ Output | | |
| 1 (R) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 2 (G) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 3 (BR) | Ground | Starter motor | Output | Ignition switch ON | 0 V |
| | | | | At engine cranking | Battery voltage |
| 5 (LG) | Ground | Cooling fan relay-1 power supply | Output | Cooling fan OFF | 0 V |
| | | | | Cooling fan operated | Battery voltage |
| 6 (SB) | Ground | Ignition switch START | Output | Any position other ignition switch START | 0 V |
| | | | | Ignition switch START | Battery voltage |
| 7 (Y) | Ground | Cooling fan relay-2 power supply | Output | Cooling fan OFF | 0 V |
| | | | | Cooling fan LO operated | 9.0 V |
| | | | | Cooling fan HI operated | Battery voltage |
| 8 (V) | Ground | Battery power supply | Input | Ignition switch OFF | Battery voltage |
| 9 (B/W) | Ground | Ground | — | Ignition switch ON | 0 V |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---------------------------------|------------------|---|---|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 10 (L) | Ground | Cooling fan motor ground | Output | Cooling fan OFF | | 0 V |
| | | | | Cooling fan LO operated | | 5.0 V |
| | | | | Cooling fan HI operated | | 0 V |
| 13 (W) | Ground | Rear window defogger | Output | Ignition switch OFF | 0 V | |
| | | | | Ignition switch ON | Battery voltage | |
| 18 (Y) | Ground | Ignition switch | Output | Ignition switch OFF | 0 V | |
| | | | | Ignition switch ON | Battery voltage | |
| 19 (B/W) | Ground | Ground | — | Ignition switch ON | 0 V | |
| 21 (W) | Ground | Front fog lamp (RH) | Output | Lighting switch 2ND OFF | 0 V | |
| | | | | Lighting switch 2ND ON | Battery voltage | |
| 22 (V) | Ground | Front fog lamp (LH) | Output | Lighting switch 2ND OFF | 0 V | |
| | | | | Lighting switch 2ND ON | Battery voltage | |
| 24 (G) | Ground | Oil pressure switch | Input | Ignition switch ON Engine stopped | 0 V | |
| | | | | Ignition switch ON Engine running | Battery voltage | |
| 25 (Y) | Ground | Front wiper auto stop | Input | Ignition switch ON Front wiper stop position | 0 V | |
| | | | | Ignition switch ON Any position other than front wiper stop position | Battery voltage | |
| 26 (P) | Ground | CAN-L | Input/ Output | — | — | |
| 27 (L) | Ground | CAN-H | Input/ Output | — | — | |
| 31 (W) | Ground | Fuel pump relay control | Output | <ul style="list-style-type: none"> Approximately 1 second after turning the ignition switch ON Engine running | 0 - 1.5 V | |
| | | | | Approximately 1 second or more after turning the ignition switch ON | Battery voltage | |
| 33 (O) | Ground | Power generation command signal | Output | Ignition switch ON | Battery voltage | |
| | | | | 40 % is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE" |  <p style="text-align: right;">JPMIA0002GB</p> | |
| | | | | 80 % is set on "ACTIVE TEST", "ALTERNATOR DUTY" of "ENGINE" |  <p style="text-align: right;">JPMIA0003GB</p> | |

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | Value (Approx.) |
|------------------------------|--------|---|------------------|---|--------------------|
| + | - | Signal name | Input/ Output | | |
| 34 (R) | Ground | Horn relay control | Output | The horn is deactivated | Battery voltage |
| | | | | The horn is activated | 0 V |
| 36 (O) | Ground | Parking lamp (LH) | Output | Ignition switch ON Lighting switch OFF | 0 V |
| | | | | Lighting switch 1ST | Battery voltage |
| 37 (V) | Ground | Parking lamp (RH) | Output | Ignition switch ON Lighting switch OFF | 0 V |
| | | | | Lighting switch 1ST | Battery voltage |
| 38 (G) | Ground | Tail lamp (RH) & illuminations | Output | Ignition switch ON Lighting switch OFF | 0 V |
| | | | | Lighting switch 1ST | Battery voltage |
| 39 (V) | Ground | Front wiper HI | Output | Ignition switch ON Front wiper switch OFF | 0 V |
| | | | | Front wiper switch HI | Battery voltage |
| 40 (R) | Ground | ECM relay control | Output | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | Battery voltage |
| | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | 0 - 1.5 V |
| 41 (SB) | Ground | Tail lamp (LH) & license plate lamps | Output | Ignition switch ON Lighting switch OFF | 0 V |
| | | | | Lighting switch 1ST | Battery voltage |
| 43 (G) | Ground | ECM relay power supply | Output | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | 0 V |
| | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | Battery voltage |
| 44 (P) | Ground | ECM relay power supply | Output | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | 0 V |
| | | | | <ul style="list-style-type: none"> Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | Battery voltage |
| 45 (Y) | Ground | TCM power supply | Output | Ignition switch OFF | Battery voltage |
| 46 (O) | Ground | Front wiper LO | Output | Ignition switch ON Front wiper switch OFF | 0 V |
| | | | | Front wiper switch LO | Battery voltage |
| 47 (BR) | Ground | Transmission range switch ^{*1} | Input | Select lever in any position other than P or N (Ignition switch ON) | 0 V |
| | | | | Select lever P or N (Ignition switch ON) | Battery voltage |
| | | Clutch interlock switch ^{*2} | Input | Release the clutch pedal | 0 V |
| | | | | Depress the clutch pedal | Battery voltage |
| 49 (W) | Ground | Headlamp HI (RH) | Output | Ignition switch ON Lighting switch OFF | 0 V |
| | | | | <ul style="list-style-type: none"> Lighting switch HI Lighting switch PASS | Battery voltage |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Terminal NO. (Wire color) | | Description | | Condition | | Value (Approx.) |
|------------------------------|--------|---|------------------|--|---|--------------------|
| | | Signal name | Input/ Output | | | |
| + | - | | | | | |
| 50 (GR) | Ground | Headlamp HI (LH) | Output | Ignition switch ON | Lighting switch OFF | 0 V |
| | | | | | <ul style="list-style-type: none"> • Lighting switch HI • Lighting switch PASS | Battery voltage |
| 51 (R) | Ground | Headlamp LO (LH) | Output | Ignition switch ON | Lighting switch OFF | 0 V |
| | | | | | Lighting switch 2ND | Battery voltage |
| 52 (P) | Ground | Headlamp LO (RH) | Output | Ignition switch ON | Lighting switch OFF | 0 V |
| | | | | | Lighting switch 2ND | Battery voltage |
| 54 (GR) | Ground | Throttle control motor relay power supply | Output | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | | 0 V |
| | | | | | <ul style="list-style-type: none"> • Ignition switch ON • Ignition switch OFF (For a few seconds after turning ignition switch OFF) | Battery voltage |
| 55 (P) | Ground | Fuel pump power supply | Output | Approximately 1 second or more than after turning the ignition switch ON | | 0 V |
| | | | | | <ul style="list-style-type: none"> • Approximately 1 second after turning the ignition switch ON • Engine running | Battery voltage |
| 56 (SB) | Ground | A/C relay power supply | Output | Engine running | A/C switch OFF | 0 V |
| | | | | | A/C switch ON (A/C compressor is operating) | Battery voltage |
| 57 (G) | Ground | Throttle control motor relay control | Output | Ignition switch ON → OFF | 0 - 1.0 V | |
| | | | | | ↓ Battery voltage ↓ 0 V | |
| 58 (R) | Ground | Ignition relay power supply | Output | Ignition switch ON | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 59 (Y) | Ground | Ignition relay power supply | Output | Ignition switch ON | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 60 (V) | Ground | Ignition relay power supply | Output | Ignition switch ON | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 61 (W) | Ground | Ignition relay power supply | Output | Ignition switch ON | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |
| 62 (L) | Ground | Ignition relay power supply | Output | Ignition switch ON | Ignition switch OFF | 0 V |
| | | | | | Ignition switch ON | Battery voltage |

*2: CVT models

*3: M/T models

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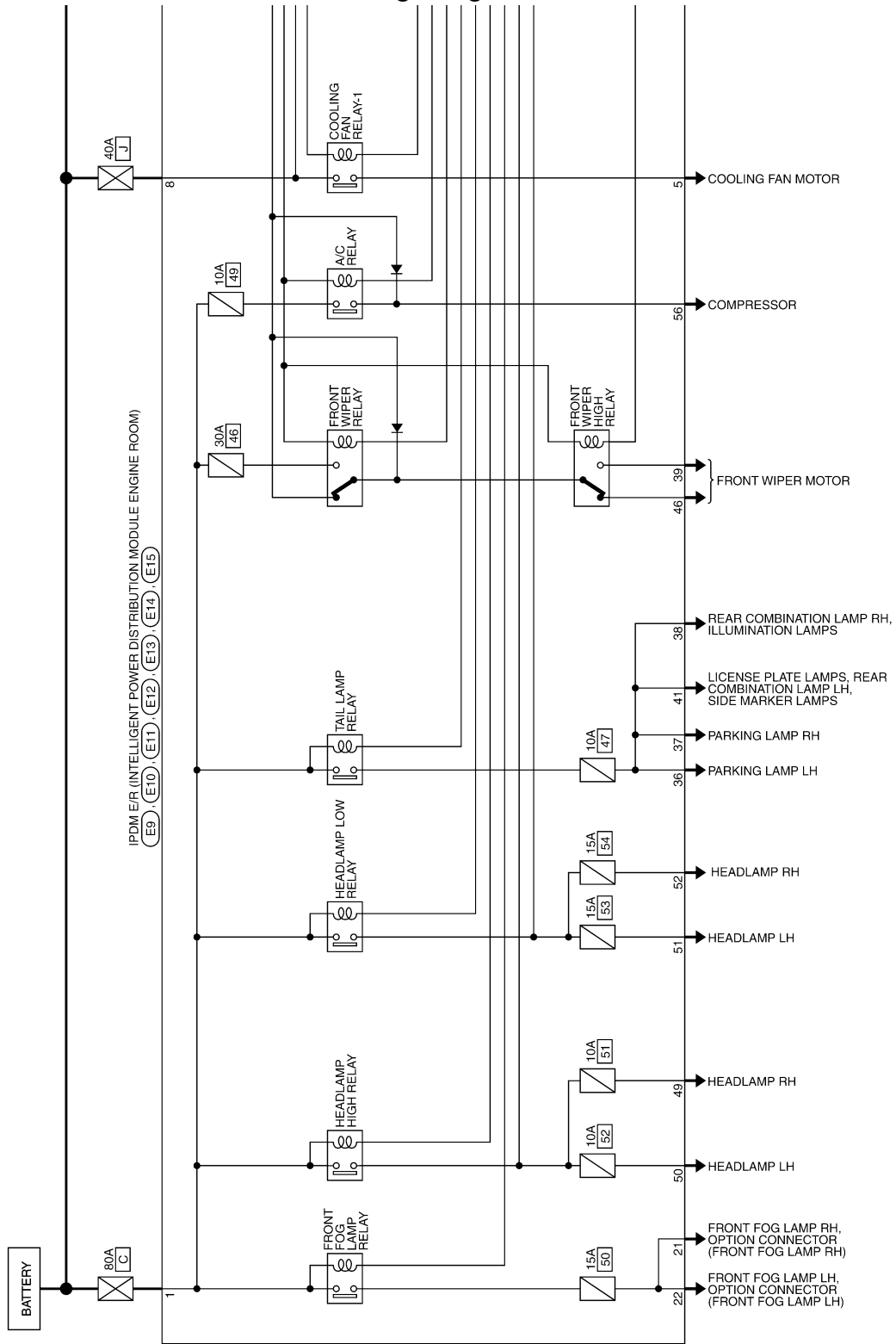
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

WITHOUT INTELLIGENT KEY : Wiring Diagram — IPDM E/R —

INFOID:000000010249372

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (WITHOUT INTELLIGENT KEY)

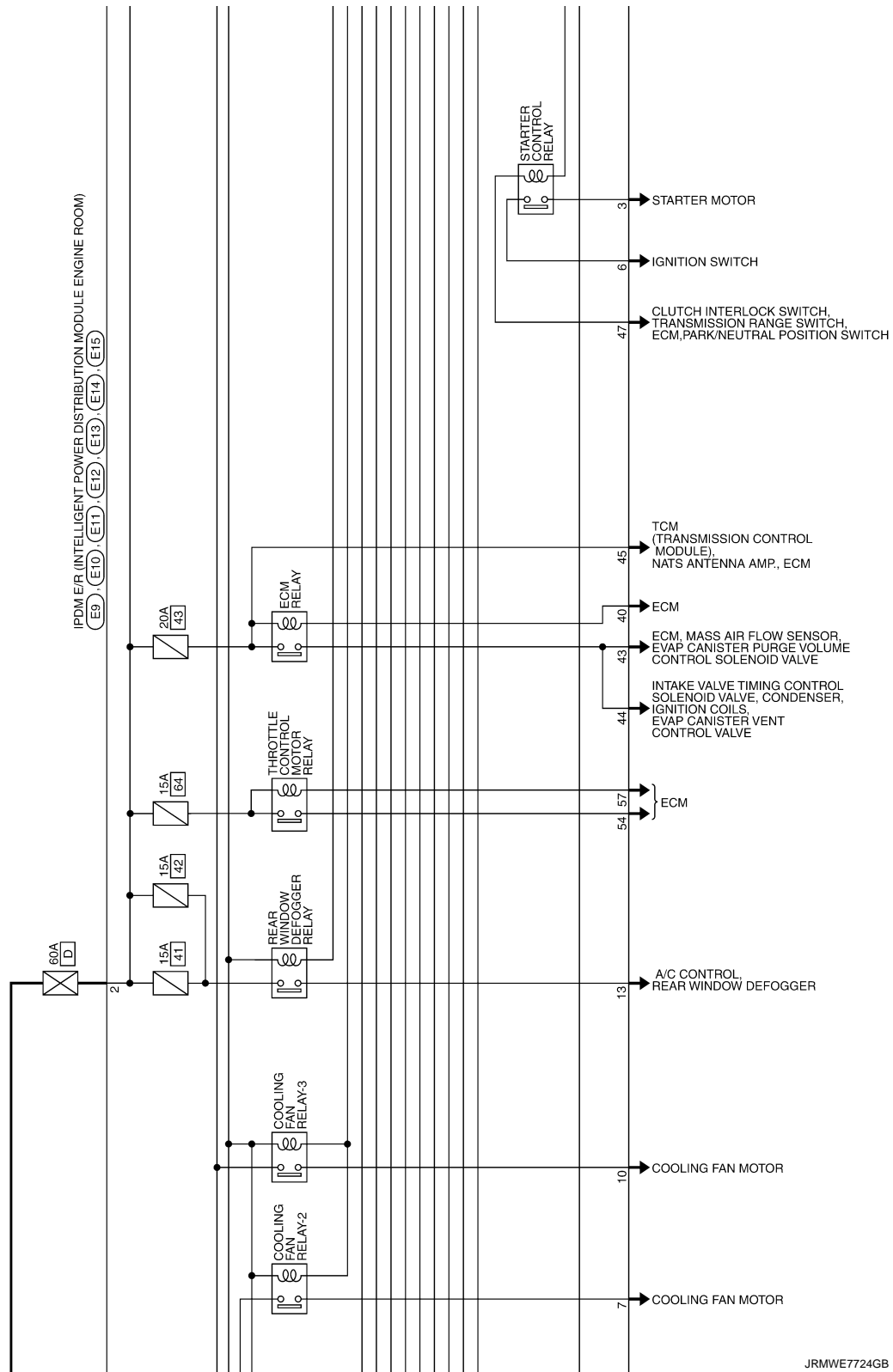


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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >



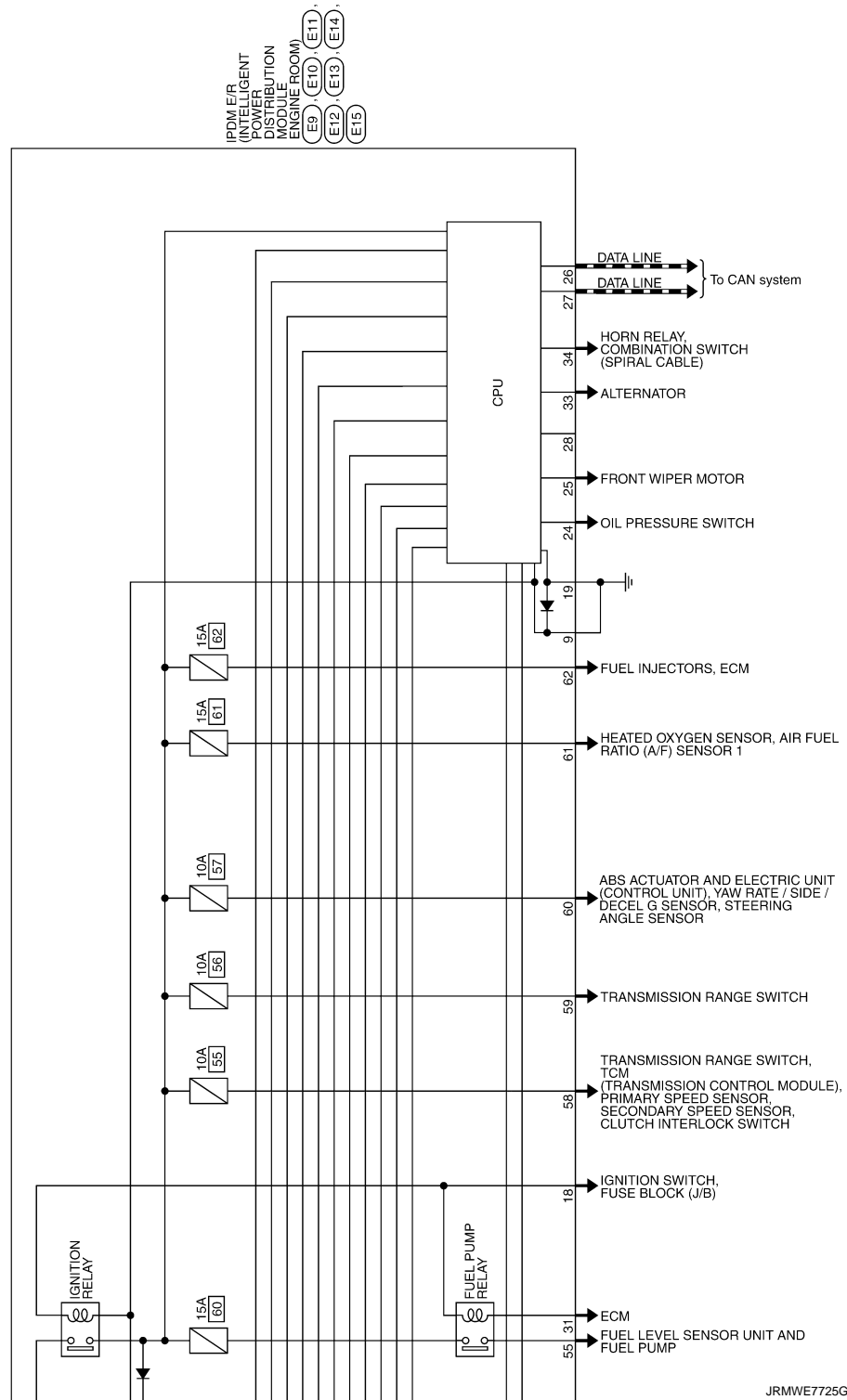
JRMWE7724GB

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >





IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >



IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (WITHOUT INTELLIGENT KEY)

| | |
|----------------|--|
| Connector No. | E15 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS16FM-CS |


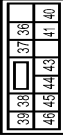
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 47 | BR | - |
| 49 | W | - |
| 50 | GR | - |
| 51 | R | - |
| 52 | R | - |
| 54 | GR | - |
| 55 | P | - |
| 56 | SB | - |
| 57 | G | - |
| 58 | LG | - [With M/T] |
| 59 | R | - [With CVT] |
| 60 | Y | - |
| 61 | W | - |
| 62 | L | - |

| | |
|----------------|--|
| Connector No. | E13 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH12FM-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24 | G | - |
| 25 | Y | - |
| 26 | P | - |
| 27 | L | - |
| 28 | P | - |
| 30 | SB | - |
| 31 | W | - |
| 33 | O | - |
| 34 | R | - |

| | |
|----------------|--|
| Connector No. | E14 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS12FBR-CS |


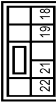
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36 | O | - |
| 37 | V | - |
| 38 | G | - |
| 39 | V | - |
| 40 | R | - |
| 41 | SB | - |
| 43 | G | - |
| 44 | P | - |
| 45 | Y | - |
| 46 | O | - |

| | |
|----------------|--|
| Connector No. | E11 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | M06FELC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9 | BR | - |
| 10 | W | - |
| 13 | W | - |

| | |
|----------------|--|
| Connector No. | E12 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | NS08FBR-CS |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 18 | Y | - |
| 19 | BR | - |
| 21 | W | - |
| 22 | V | - |

| | |
|----------------|--|
| Connector No. | E10 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | M06FW-LC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | G | - |

| | |
|----------------|--|
| Connector No. | E09 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | L02FB-MC |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | G | - |

| | |
|----------------|--|
| Connector No. | E08 |
| Connector Name | IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | M06FW-LC |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3 | BR | - |
| 4 | P | - |
| 5 | LG | - |
| 6 | SB | - |
| 7 | Y | - |
| 8 | V | - |

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EXL

JRMWE7836GB

INFOID:000000010249373

WITHOUT INTELLIGENT KEY : Fail-Safe

CAN COMMUNICATION CONTROL

When CAN communication with ECM and BCM is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.

If No CAN Communication Is Available With ECM

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

| Control part | Fail-safe operation |
|----------------|---|
| Cooling fan | <ul style="list-style-type: none"> The cooling fan relay-1, the cooling fan relay-2 and the cooling fan relay-3 turn ON when the ignition switch is turned ON (Cooling fan HI operation) The cooling fan relay-1, the cooling fan relay-2 and the cooling fan relay-3 turn OFF when the ignition switch is turned OFF |
| A/C compressor | A/C relay OFF |
| Alternator | Outputs the power generation command signal (PWM signal) 0% |

If No CAN Communication Is Available With BCM

| Control part | Fail-safe operation |
|--|--|
| Headlamp | <ul style="list-style-type: none"> Turns ON the headlamp low relay when the ignition switch is turned ON Turns OFF the headlamp low relay when the ignition switch is turned OFF Headlamp high relay OFF |
| <ul style="list-style-type: none"> Parking lamps Side marker lamps License plate lamps Illuminations Tail lamps | <ul style="list-style-type: none"> Turns ON the tail lamp relay when the ignition switch is turned ON Turns OFF the tail lamp relay when the ignition switch is turned OFF |
| Front wiper | <ul style="list-style-type: none"> The status just before activation of fail-safe control is maintained until the ignition switch is turned OFF while the front wiper is operating at LO or HI speed. The wiper is operated at LO speed until the ignition switch is turned OFF if the fail-safe control is activated while the front wiper is set in the INT mode and the front wiper motor is operating. |
| Front fog lamps | Front fog lamp relay OFF |
| Rear window defogger relay | Rear window defogger relay OFF |
| Horn | Horn OFF |

IGNITION RELAY MALFUNCTION DETECTION FUNCTION

- IPDM E/R monitors the voltage at the contact circuit of the ignition relay inside and ignition switch status from BCM via CAN communication.
- IPDM E/R judges the ignition relay error if the voltage differs between the contact circuit and the ignition switch status from BCM via CAN communication.
- If the ignition relay cannot turn OFF due to contact seizure, it activates the tail lamp relay for 10 minutes to alert the user to the ignition relay malfunction when the ignition switch is turned OFF.

| Voltage judgment | | IPDM E/R judgment | Operation |
|-----------------------------|---------------------------------|---------------------------|--|
| Ignition relay contact side | Ignition switch status from BCM | | |
| ON | ON | Ignition relay ON normal | — |
| OFF | OFF | Ignition relay OFF normal | — |
| ON | OFF | Ignition relay ON stuck | <ul style="list-style-type: none"> Detects DTC "B2098: IGN RELAY ON" Turns ON the tail lamp relay for 10 minutes |
| OFF | ON | Ignition relay OFF stuck | Detects DTC "B2099: IGN RELAY OFF" |

FRONT WIPER CONTROL

IPDM E/R detects front wiper stop position by a front wiper stop position signal.

When a front wiper stop position signal is in the conditions listed below, IPDM E/R stops power supply to wiper after repeating a front wiper 10 seconds activation and 20 seconds stop five times.

| Ignition switch | Front wiper switch | Front wiper stop position signal |
|-----------------|--------------------|--|
| ON | OFF | The front wiper stop position signal (stop position) cannot be input for 10 seconds. |
| | ON | The front wiper stop position signal does not change for 10 seconds. |

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< ECU DIAGNOSIS INFORMATION >

NOTE:

This operation status can be confirmed on the IPDM E/R “Data Monitor” that displays “BLOCK” for the item “WIP PROT” while the wiper is stopped.

WITHOUT INTELLIGENT KEY : DTC Index

INFOID:0000000010249374

NOTE:

- The details of time display are as follows.
- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.
- IGN counter is displayed on FFD (Freeze Frame data).
- The number is 0 when is detected now.
- The number increases like 1 → 2 ... 38 → 39 after returning to the normal condition whenever IGN OFF → ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

×: Applicable

| CONSULT display | Fail-safe | Refer to |
|--|-----------|------------------------|
| No DTC is detected. further testing may be required. | — | — |
| U1000: CAN COMM CIRCUIT | × | PCS-15 |
| B2098: IGN RELAY ON CIRC | × | PCS-16 |
| B2099: IGN RELAY OFF CIRC | — | PCS-47 |

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EXL

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:000000009945193

NOTE:

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

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Headlamp (HI) is not turned ON. | One side | <ul style="list-style-type: none"> • Fuse • Halogen bulb (HI) • Harness between IPDM E/R and the headlamp • Harness between headlamp and the ground • IPDM E/R | Headlamp (HI) circuit Refer to EXL-42 . |
| | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to EXL-181 . | |
| High beam indicator lamp is not turned ON. [Headlamp (HI) is turned ON.] | | Combination meter | <ul style="list-style-type: none"> • Combination meter • Data monitor "HI-BEAM IND" • BCM (HEADLAMP) • Active test "HEADLAMP" |
| Headlamp (LO) is not turned ON. | One side | <ul style="list-style-type: none"> • Fuse • Halogen bulb (LO) • Harness between IPDM E/R and the headlamp • Harness between headlamp and the ground • IPDM E/R | Headlamp (LO) circuit Refer to EXL-44 . |
| | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-182 . | |
| Headlamp is not turned OFF. | When ignition switch is turned ON. | "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer to EXL-182 . | |
| | When ignition switch is turned OFF. | IPDM E/R | — |
| Headlamp is not turned ON/OFF with the lighting switch AUTO. | <ul style="list-style-type: none"> • Combination switch • Harness between the combination switch and BCM • BCM | | Combination switch Refer to BCS-85 . |
| | <ul style="list-style-type: none"> • Optical sensor • Harness between the optical sensor and BCM • BCM | | Optical sensor Refer to EXL-53 . |
| Front fog lamp is not turned ON. | One side | <ul style="list-style-type: none"> • Front fog lamp bulb • Harness between IPDM E/R and the front fog lamp • Front fog lamp • IPDM E/R | Front fog lamp circuit Refer to EXL-46 . |
| | Both side | Symptom diagnosis "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-184 . | |
| Front fog lamp is not turned ON. | | | |
| Parking lamp is not turned ON. | | <ul style="list-style-type: none"> • Parking lamp bulb • Harness between IPDM E/R and the parking lamp • Front combination lamp assembly • IPDM E/R | Parking lamp circuit Refer to EXL-48 . |

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

| Symptom | Possible cause | Inspection item | | |
|---|--|--|--|-----|
| Tail lamp is not turned ON. | <ul style="list-style-type: none"> • Tail lamp bulb • Harness between IPDM E/R and the rear combination lamp • Rear combination lamp assembly | Tail lamp circuit Refer to EXL-58 . | A | |
| Rear side marker lamp is not turned ON. | <ul style="list-style-type: none"> • Rear side marker lamp bulb • Harness between IPDM E/R and the rear side marker lamp • Rear side marker lamp assembly | Rear side marker lamp circuit Refer to EXL-60 . | B C | |
| License plate lamp is not turned ON. | <ul style="list-style-type: none"> • License plate lamp bulb • Harness between IPDM E/R and the license plate lamp • License plate lamp assembly | License plate lamp circuit Refer to EXL-61 . | D | |
| <ul style="list-style-type: none"> • Parking lamp, tail lamp, rear side marker lamp and license plate lamp are not turned ON. • Parking lamp, tail lamp, rear side marker lamp and license plate lamp are not turned OFF. (Each illumination is turned ON/OFF.) | Symptom diagnosis "PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-183 . | | E | |
| Tail lamp indicator is not turned ON. (Parking and tail lamps are turned ON.) | Combination meter | <ul style="list-style-type: none"> • Combination meter Data monitor "LIGHT IND" • BCM (HEADLAMP) Active test "TAIL LAMP" | F G | |
| Turn signal lamp does not blink. | Indicator lamp is normal. (Applicable side performs the high flasher activation.) | <ul style="list-style-type: none"> • Harness between BCM and each turn signal lamp • Turn signal lamp bulb | Turn signal circuit Refer to EXL-50 . | H |
| | Indicator lamp is included. | <ul style="list-style-type: none"> • Combination switch • Harness between the combination switch and BCM • BCM | Combination switch Refer to BCS-85 (with Intelligent Key) or BCS-153 (without Intelligent Key). | I |
| Turn signal indicator lamp does not blink. (Turn signal lamp is normal.) | One side | Combination meter | — | J |
| | Both sides (Always) | <ul style="list-style-type: none"> • Turn signal indicator lamp signal - BCM • Combination meter | <ul style="list-style-type: none"> • Combination meter Data monitor "TURN IND" • BCM (FLASHER) Active test "FLASHER" | K |
| | Both sides (Only when activating hazard warning lamp with the ignition switch OFF.) | <ul style="list-style-type: none"> • Combination meter power supply and the ground circuit • Combination meter | Combination meter Power supply and the ground circuit Refer to MWI-39 . | EXL |
| <ul style="list-style-type: none"> • Hazard warning lamp does not activate. • Hazard warning lamp continues activating. (Turn signal is normal.) | <ul style="list-style-type: none"> • Hazard switch • Harness between the hazard switch and BCM • BCM | Hazard switch Refer to EXL-56 . | M N O P | |

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000009945195

AUTO LIGHT SYSTEM

The headlamp may not be turned ON/OFF immediately after passing dark area or bright area (short tunnel, sky bridge, shadowed area etc.) while using the auto light system. This causes the control difference. This is normal.

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description

INFOID:000000009945196

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:000000009945197

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-85, "Symptom Table"](#) (with Intelligent Key) or [BCS-153, "Symptom Table"](#) (without Intelligent Key).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

CONSULT DATA MONITOR

1. Select "HL HI REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|--------------|-----------------------|------------|----------------|
| HL HI REQ | Lighting switch (2ND) | HI or PASS | ON |
| | | LO | OFF |

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to [BCS-88, "Removal and Installation"](#) (with Intelligent Key) or [BCS-155, "Removal and Installation"](#) (without Intelligent Key).

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to [EXL-42, "Component Function Check"](#).

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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EXL

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description

INFOID:000000009945198

Both side headlamps (LO) are not turned ON in any condition.

Diagnosis Procedure

INFOID:000000009945199

1. CHECK COMBINATION SWITCH

Check the combination switch. Refer to [BCS-85, "Symptom Table"](#) (with Intelligent Key) or [BCS-153, "Symptom Table"](#) (without Intelligent Key).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2. CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

CONSULT DATA MONITOR

1. Select "HL LO REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | Monitor status | |
|--------------|-----------------|----------------|-----|
| HL LO REQ | Lighting switch | 2ND | ON |
| | | OFF | OFF |

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to [BCS-88, "Removal and Installation"](#) (with Intelligent Key) or [BCS-155, "Removal and Installation"](#) (without Intelligent Key).

3. HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to [EXL-44, "Component Function Check"](#).

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

Description

INFOID:000000009945200

The parking, license plate, tail, rear side marker lamps and each illumination are not turned ON in any condition.

Diagnosis Procedure

INFOID:000000009945201

1.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-85. "Symptom Table"](#) (with Intelligent Key) or [BCS-153. "Symptom Table"](#) (without Intelligent Key).

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

CONSULT DATA MONITOR

1. Select "TAIL & CLR REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | Monitor status | |
|----------------|-----------------|----------------|-----|
| TAIL & CLR REQ | Lighting switch | 1ST | ON |
| | | OFF | OFF |

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM. Refer to [BCS-88. "Removal and Installation"](#) (with Intelligent Key) or [BCS-155. "Removal and Installation"](#) (without Intelligent Key).

3.TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to [EXL-58. "Component Function Check"](#).

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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EXL

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description

INFOID:000000009945202

The front fog lamps are not turned ON in any condition.

Diagnosis Procedure

INFOID:000000009945203

1.CHECK FUSE

Check that the following fuse is fusing.

| Unit | Location | Fuse No. | Capacity |
|----------------|----------|----------|----------|
| Front fog lamp | IPDM E/R | #65 | 15 A |

Is the fuse fusing?

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

2.COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to [BCS-153, "Symptom Table"](#).

Is the combination switch normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning part.

3.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

ⓅCONSULT DATA MONITOR

1. Select "FR FOG REQ" of IPDM E/R data monitor item.
2. With operating the front fog lamp switch, check the monitor status.

| Monitor item | Condition | Monitor status | |
|--------------|---|----------------|-----|
| FR FOG REQ | Front fog lamp switch (With lighting switch 1ST) | ON | ON |
| | | OFF | OFF |

Is the item status normal?

- YES >> GO TO 4.
- NO >> Replace BCM. Refer to [BCS-155, "Removal and Installation"](#).

4.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to [EXL-46, "Component Function Check"](#).

Is the front fog lamp circuit normal?

- YES >> Replace IPDM E/R.
- NO >> Repair or replace the malfunctioning part.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009945204

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:

Always observe the following items for preventing accidental activation.

- 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:

Always observe the following items for preventing accidental activation.

- 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.

Precautions for Removing of Battery Terminal

INFOID:0000000010239711

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

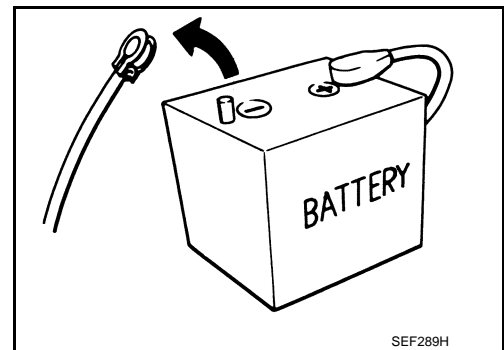
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



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HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description

INFOID:000000009945205

PREPARATION BEFORE ADJUSTING

NOTE:

- For details, refer to the regulations in your own country.
- Perform aiming if the vehicle front body has been repaired and/or the headlamp assembly has been replaced.

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to the specification.
- Fill with fuel, engine coolant and each oil.
- Maintain the unloaded vehicle condition. (Remove luggage from the passenger compartment and the trunk room.)

NOTE:

Do not remove the temporary tire, jack and on-vehicle tool.

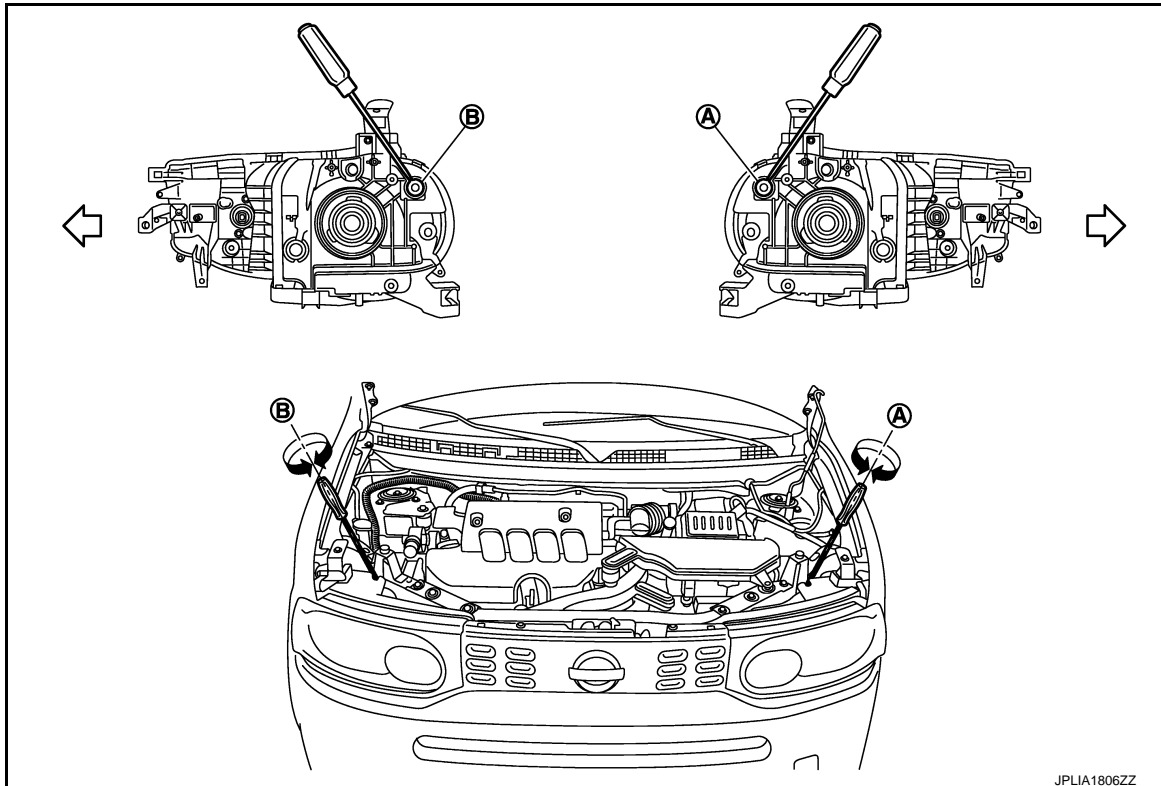
- Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW



A Headlamp (RH) UP/DOWN adjustment screw

B. Headlamp (LH) UP/DOWN adjustment screw

↔: Vehicle center

JPLIA1806ZZ

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

| Adjustment screw | | Screw driver rotation | Facing direction |
|------------------|-----------------------|-----------------------|------------------|
| A | Headlamp (RH) UP/DOWN | Clockwise | DOWN |
| | | Counterclockwise | UP |
| B | Headlamp (LH) UP/DOWN | Clockwise | DOWN |
| | | Counterclockwise | UP |

Aiming Adjustment Procedure

INFOID:000000009945206

- Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.

- Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the headlamp center and the screen.
- Start the engine. Turn the headlamp (LO) ON.

NOTE:

Shut off the headlamp light with the board to prevent from illuminating the adjustment screen.

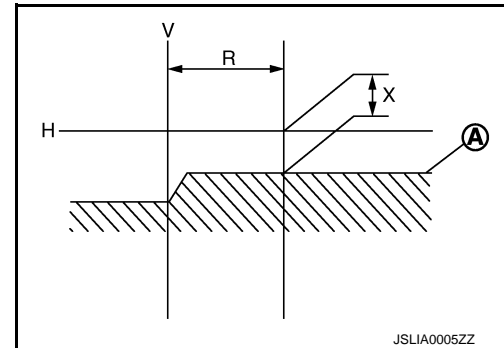
CAUTION:

Never cover the lens surface with a tape etc. The lens is made of resin.

- Measure the distance (X) between the horizontal center line of headlamp (H) and the cutoff line (A) within the light axis measurement range (R) from the vertical center line ahead of headlamp (V).

Light axis measurement range (R) : 350 ± 175 mm (13.78 ± 6.89 in)

Low beam distribution on the screen

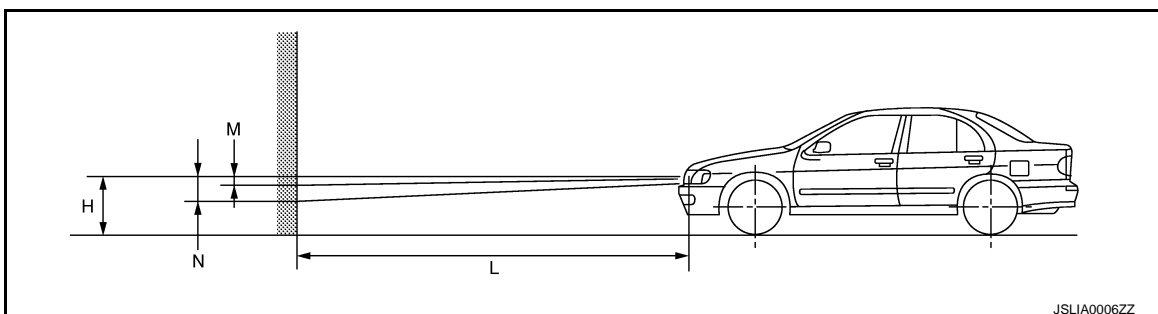


- Adjust the cutoff line height (X) with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

unit: mm (in)

| Horizontal center line of headlamp (H) | Highest cutoff line height (M) | Lowest cutoff line height (N) |
|--|--------------------------------|-------------------------------|
| 700 (27.56) or less | 4 (0.16) | 30 (1.18) |
| 701 (27.60) – 800 (31.50) | 4 (0.16) | 30 (1.18) |
| 801 (31.54) or more | 17 (0.67) | 44 (1.73) |

Side view



JSLIA006ZZ

HEADLAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

Distance between the headlamp center and the screen (L) : 10 m (32.8 ft)

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

FRONT FOG LAMP AIMING ADJUSTMENT

Description

INFOID:000000009945207

PREPARATION BEFORE ADJUSTING

NOTE:

- For details, refer to the regulations in your own country.

Before performing aiming adjustment, check the following.

- Adjust the tire pressure to the specification.
- Fill with fuel, engine coolant and each oil.
- Maintain the unloaded vehicle condition. (Remove luggage from the passenger compartment and the luggage room.)

NOTE:

Do not remove the temporary tire, jack and on-vehicle tool.

- Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- Ride alone on the driver seat.

AIMING ADJUSTMENT SCREW

- Turn the aiming adjusting screw for adjustment.

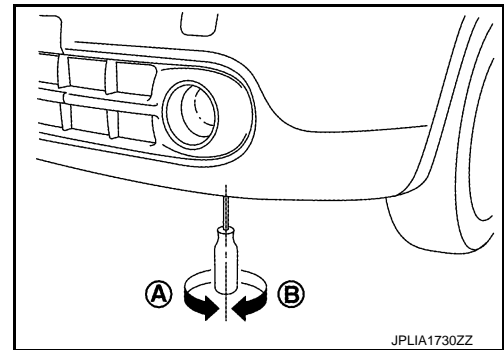
A: UP

B: DOWN

- For the position and direction of the adjusting screw, refer to the figure.

NOTE:

A screwdriver or hexagonal wrench [6 mm (0.24 in)] can be used for adjustment.



Aiming Adjustment Procedure

INFOID:000000009945208

1. Place the screen.

NOTE:

- Stop the vehicle facing the wall.
- Place the board on a plain road vertically.

2. Face the vehicle with the screen. Maintain 10 m (32.8 ft) between the front fog lamp center and the screen.

3. Start the engine. Illuminate the front fog lamp.

CAUTION:

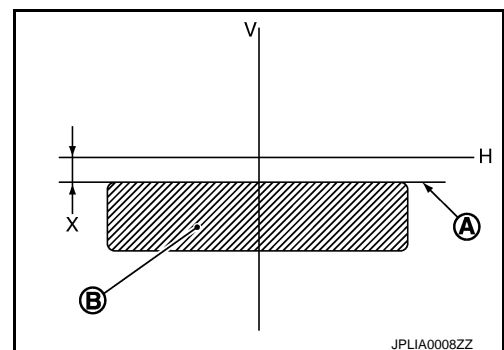
Never cover the lens surface with a tape etc. The lens is made of resin.

NOTE:

Shut off the headlamp light with the board to prevent from illuminating the adjustment screen.

4. Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 200 mm (7.87 in).

Front fog lamp light distribution on the screen



FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

- A : Cutoff line
- B : High illuminance area
- H : Horizontal center line of front fog lamp
- V : Vertical center line of front fog lamp
- X : Cutoff line height

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

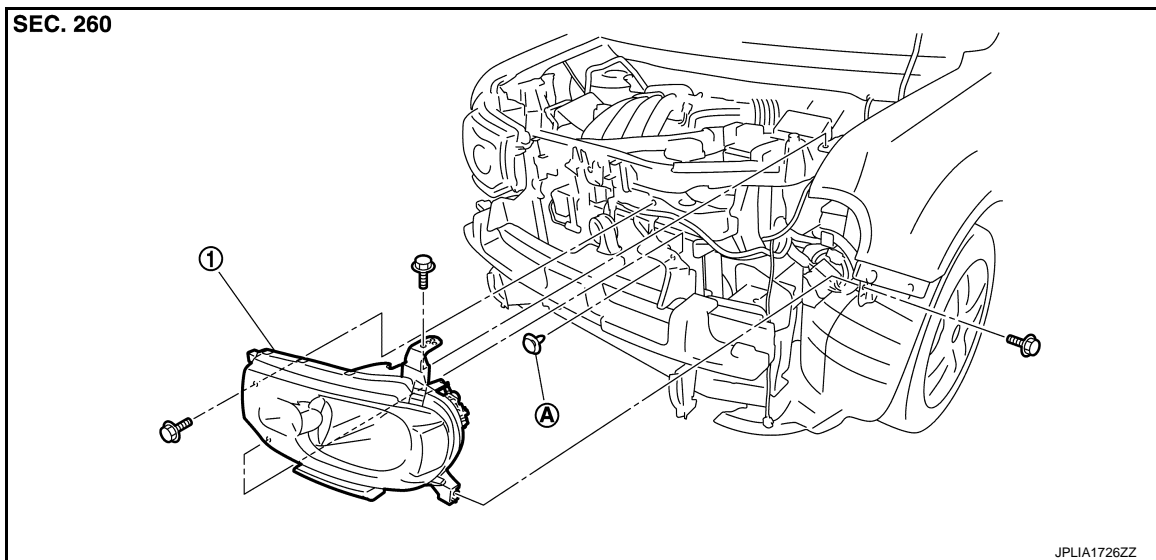
REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

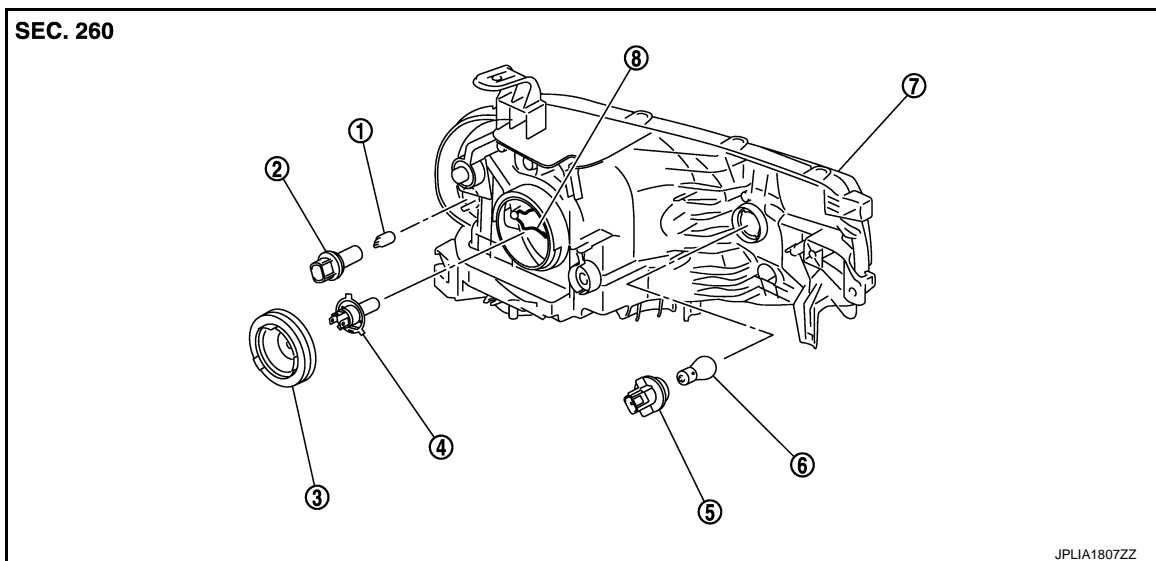
INFOID:000000009945209

REMOVAL



- 1. Front combination lamp
- A. Air duct clip(only left)

DISASSEMBLY



- 1. Parking(side marker) lamp bulb
- 2. Parking(side marker)lamp bulb socket
- 3. Back cover
- 4. Halogen bulb
- 5. Front turn signal lamp bulb socket
- 6. Front turn signal lamp bulb
- 7. Headlamp housing assembly
- 8. Retaining spring

Removal and Installation

INFOID:000000009945210

REMOVAL

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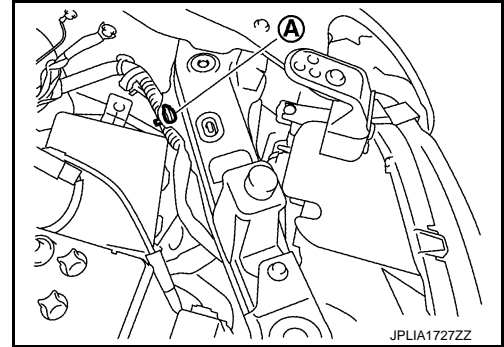
FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

CAUTION:

Disconnect the battery negative terminal or the fuse.

1. Remove front bumper fascia. Refer to [EXT-11, "Exploded View"](#).
2. Remove the harness clips (A)*.
*: When replace a left.
3. Remove the air duct clip*.
*: When replace a left.
4. Remove the headlamp mounting bolts.
5. Pull out the headlamp assembly forward the vehicle.
6. Disconnect the connector before removing the headlamp assembly.



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to [EXL-186, "Description"](#).

Replacement

INFOID:000000009945211

CAUTION:

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

HEADLAMP BULB

1. Disconnect the headlamp bulb connector.
2. Remove the back cover.
3. Remove the retaining spring lock. And remove the bulb from the headlamp housing assembly.

PARKING(FRONT SIDE MARKER) LAMP BULB

1. Remove the fender protector. Refer to [EXT-21, "FENDER PROTECTOR : Exploded View"](#). Keep a service area.
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

FRONT TURN SIGNAL LAMP BULB

1. Rotate the bulb socket counterclockwise and unlock it.
2. Remove the bulb from the bulb socket.

Disassembly and Assembly

INFOID:000000009945212

DISASSEMBLY

1. Remove the back cover.
2. Remove the retaining spring lock. And remove the bulb from the headlamp housing assembly.
3. Rotate the parking(front side marker) lamp bulb socket counterclockwise and unlock it.
4. Remove the bulb from the parking(front side marker) lamp bulb socket.
5. Rotate the front turn signal lamp bulb socket counterclockwise and unlock it.
6. Remove the bulb from the front turn signal lamp bulb socket.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

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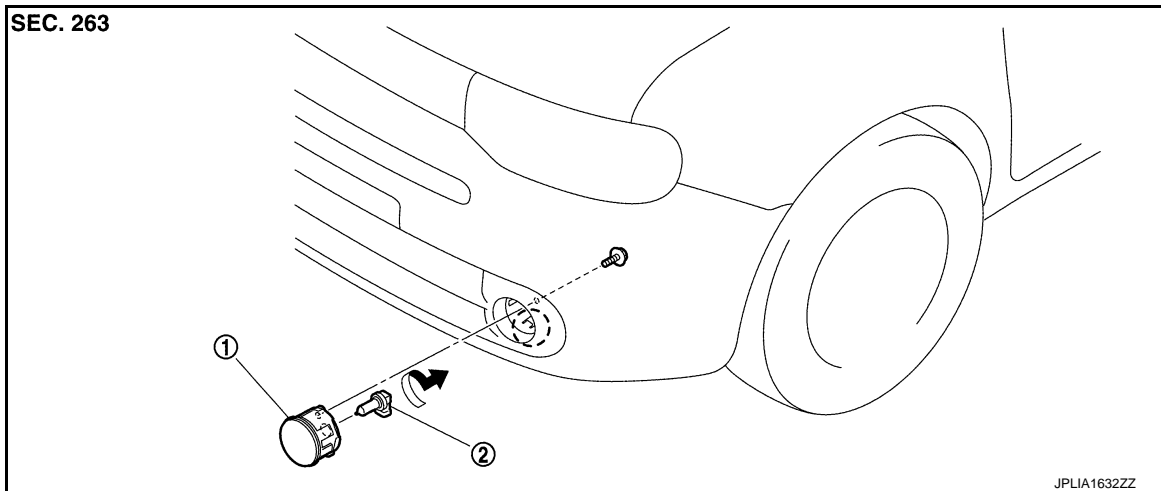
FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

FRONT FOG LAMP

Exploded View

INFOID:000000009945213



1. Front fog lamp
2. Front fog lamp bulb

○ : Pawl

Removal and Installation

INFOID:000000009945214

CAUTION:

Disconnect the battery negative terminal or the fuse.

REMOVAL

1. Remove the fender protector. Refer to [EXT-21, "FENDER PROTECTOR : Exploded View"](#).
2. Remove the front fog lamp connector.
3. Remove the front fog lamp mounting bolt.
4. While pressing pawls, remove the front fog lamp.

INSTALLATION

Installation is the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to [EXL-189, "Description"](#).

Replacement

INFOID:000000009945215

CAUTION:

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

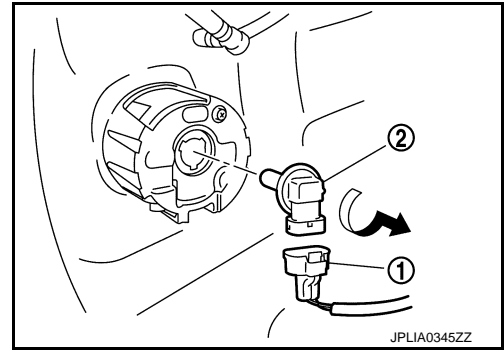
FRONT FOG LAMP BULB

1. Remove the fender protector. Keep the service area. Refer to [EXT-21, "FENDER PROTECTOR : Exploded View"](#).

FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

2. Remove the front fog lamp bulb connector (1).
3. Rotate the bulb (2) counterclockwise and unlock it.



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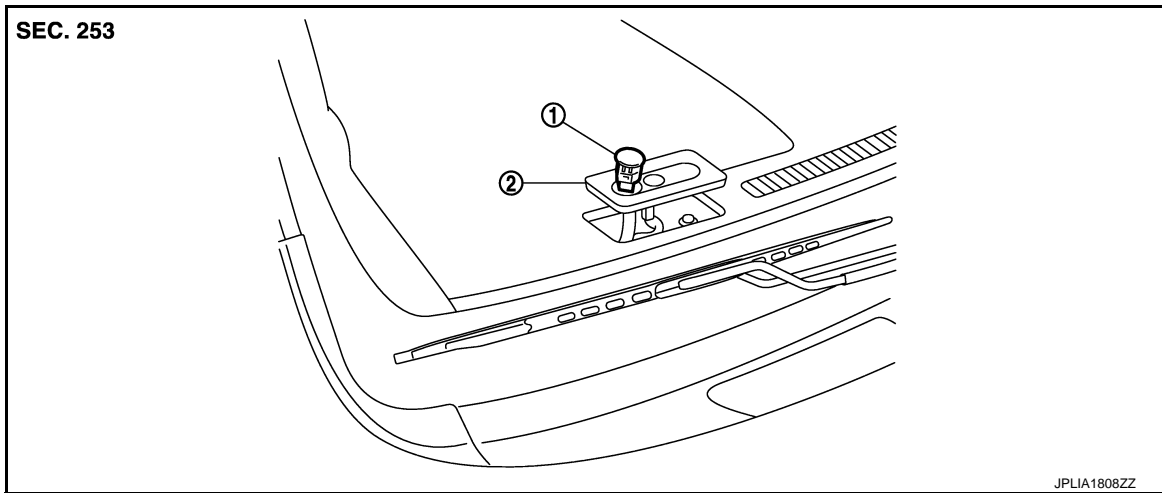
OPTICAL SENSOR

< REMOVAL AND INSTALLATION >

OPTICAL SENSOR

Exploded View

INFOID:000000009945216



1. Optical sensor

2. Instrument mask

Removal and Installation

INFOID:000000009945217

REMOVAL

1. Remove the instrument mask.
2. Disconnect the connector. Remove the optical sensor.

INSTALLATION

Install in the reverse order of removal.

LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

LIGHTING & TURN SIGNAL SWITCH

Exploded View

INFOID:000000009945218

The lighting & turn switch is integrated in the combination switch. Refer to [BCS-89. "Exploded View"](#).

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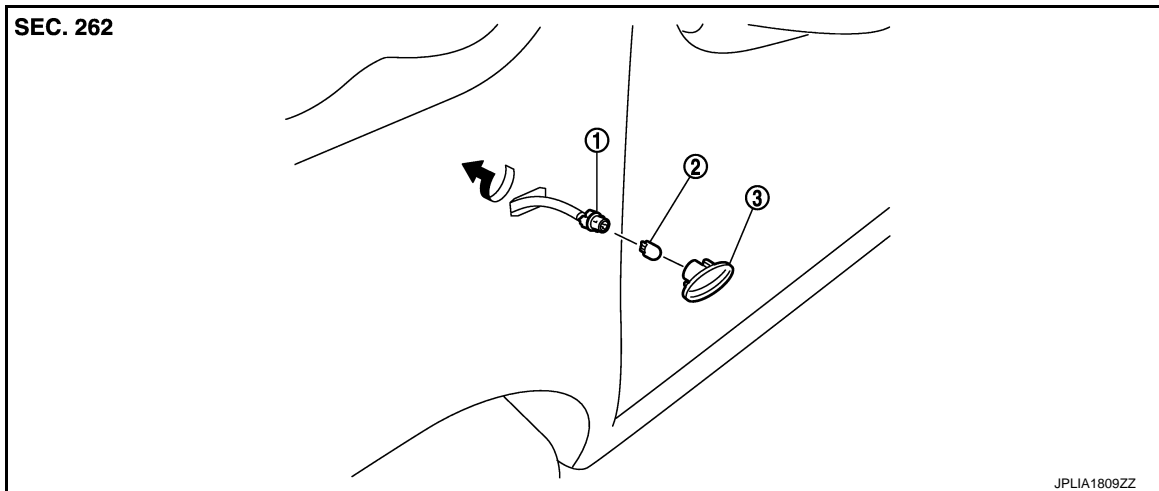
SIDE TURN SIGNAL LAMP

< REMOVAL AND INSTALLATION >

SIDE TURN SIGNAL LAMP

Exploded View

INFOID:000000009945219



1. Side turn signal lamp bulb socket
2. Side turn signal lamp bulb
3. Side turn signal lamp housing

Removal and Installation

INFOID:000000009945220

CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

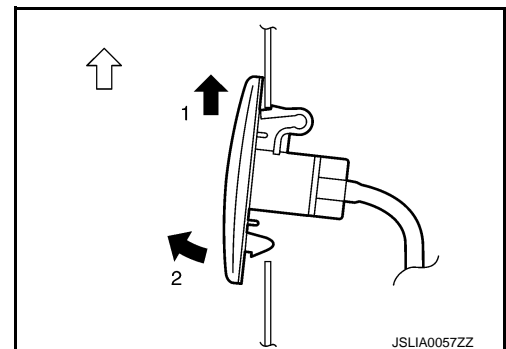
1. Remove the side turn signal lamp in numerical order shown in the figure.

↔ : Installable both direction

2. Rotate the bulb socket counterclockwise and unlock it.

NOTE:

Support side turn signal lamp harness with tape so that it won't fall into the front fender.



INSTALLATION

1. Rotate the bulb socket clockwise and lock it.
2. Fix the pawl-side behind the side turn signal lamp housing first, then push the resin clip-side.

Replacement

INFOID:000000009945221

CAUTION:

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

SIDE TURN SIGNAL LAMP BULB

1. Remove the side turn signal lamp.
2. Rotate the bulb socket counterclockwise and unlock it.

NOTE:

SIDE TURN SIGNAL LAMP

< REMOVAL AND INSTALLATION >

Support the vehicle-side harness of the side turn signal lamp with tape so that it does not drop inside the front fender.

3. Remove the bulb from the bulb socket.

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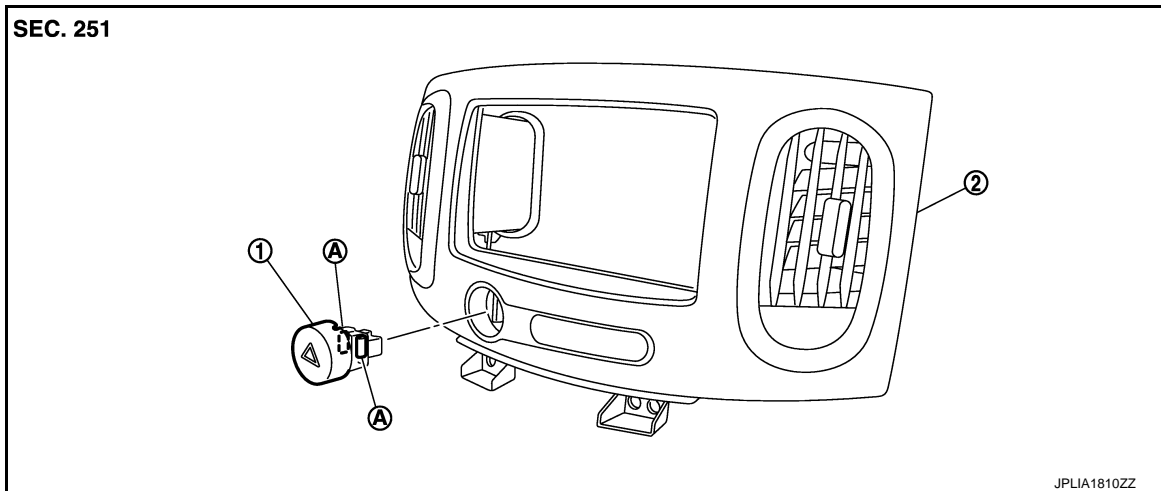
HAZARD SWITCH

< REMOVAL AND INSTALLATION >

HAZARD SWITCH

Exploded View

INFOID:000000009945222



- 1. Hazard switch
- 2. Cluster lid C
- A. Pawl

Removal and Installation

INFOID:000000009945223

REMOVAL

1. Remove the cluster lid C. Refer to [IP-13. "Exploded View"](#).
2. While pressing pawls, push the hazard switch. And remove it.

INSTALLATION

Install in the reverse order of removal.

REAR COMBINATION LAMP

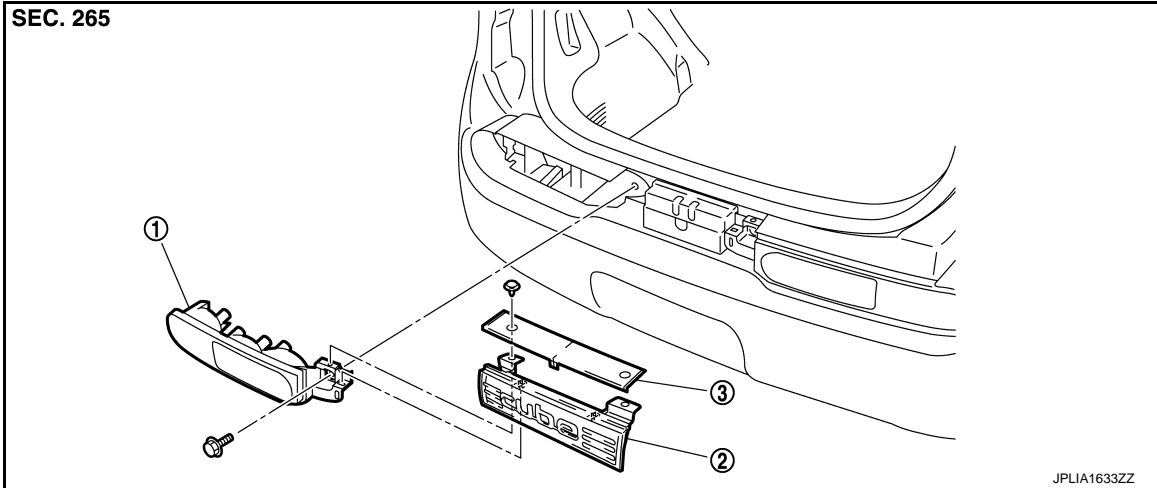
< REMOVAL AND INSTALLATION >

REAR COMBINATION LAMP

Exploded View

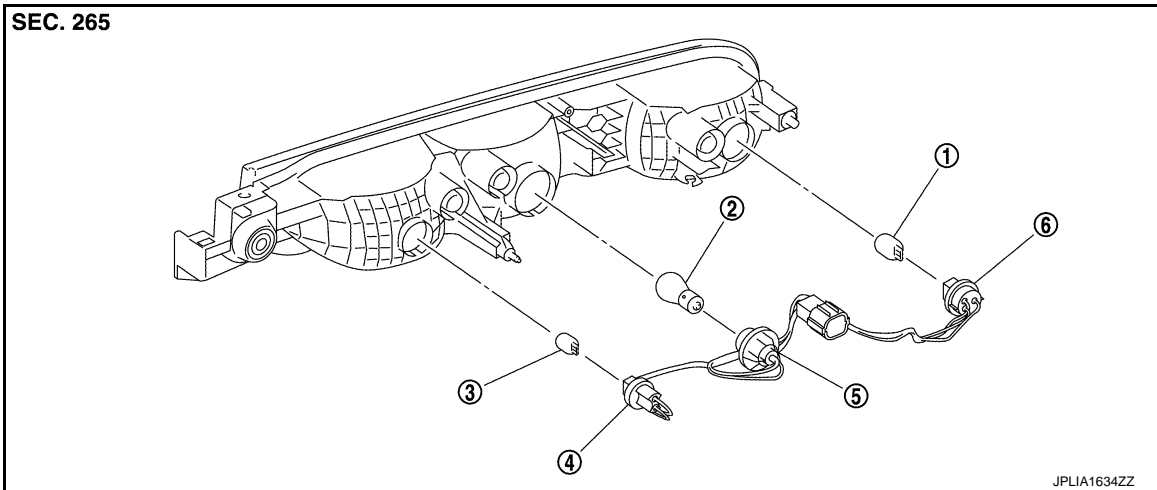
INFOID:000000009945224

REMOVAL



1. Rear combination lamp 2. Back door finisher 3. Back door finisher cover

DISASSEMBLY



1. Stop/tail lamp bulb 2. Rear turn signal lamp bulb 3. Reverse lamp bulb
4. Reverse lamp bulb socket 5. Rear turn signal lamp bulb socket 6. Stop/tail lamp bulb socket

Removal and Installation

INFOID:000000009945225

CAUTION:

- Disconnect the battery negative terminal or the fuse.
- Wrap the tip of remover tool with a cloth to protect the body from damage.

REMOVAL

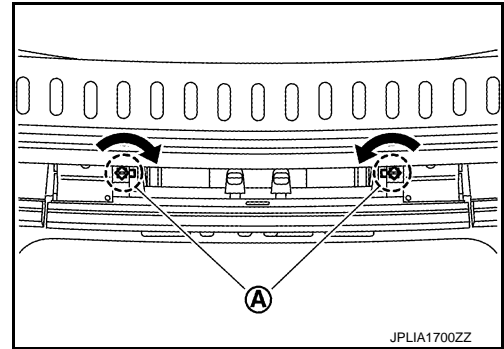
1. Remove rear back door finisher cover.

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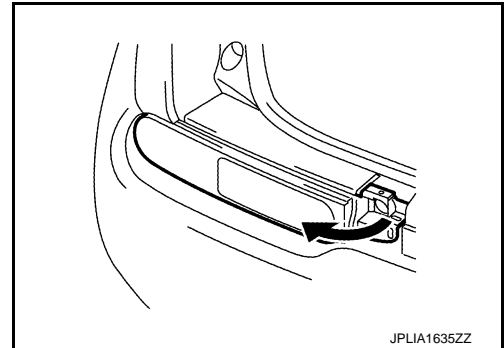
REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

2. Disengage backdoor finisher mounting fastener (A) to remove the back door finisher.



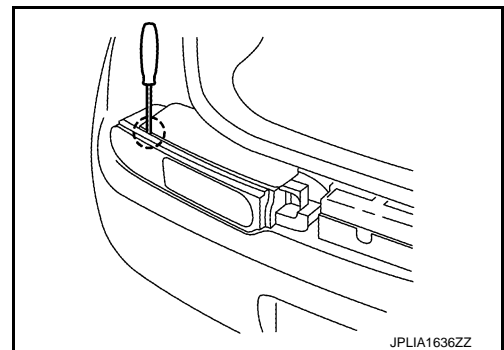
3. Remove rear combination lamp mounting bolts.
4. Slightly turn the rear combination lamp to leave a clearance.



5. Insert an appropriate tool into the clearance between the rear combination lamp and the rear bumper side bracket.

CAUTION:

Since the rear combination lamp has another clip at the lower center, be careful when removing the outer clip.



6. Pull rear combination lamp rearward to remove.
7. Disconnect rear combination lamp connector.

INSTALLATION

Install in the reverse order of removal.

NOTE:

The back door finisher mounting fastener remains on the rear combination lamp side after removing the back door finisher. Therefore, be sure to install the mounting fastener on the back door finisher side.

Replacement

INFOID:000000009945226

CAUTION:

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

STOP/TAIL LAMP BULB

1. Remove rear combination lamp assembly.
2. Rotate the stop/tail lamp bulb socket counterclockwise, and unlock it.
3. Remove bulb from the bulb socket.

REAR COMBINATION LAMP

< REMOVAL AND INSTALLATION >

REAR TURN SIGNAL LAMP BULB

1. Remove rear combination lamp assembly.
2. Rotate the rear turn signal lamp bulb socket counterclockwise, and unlock it.
3. Remove bulb from the bulb socket.

BACK-UP LAMP BULB

1. Remove rear combination lamp assembly.
2. Rotate the back-up lamp bulb socket counterclockwise, and unlock it.
3. Remove bulb from the bulb socket.

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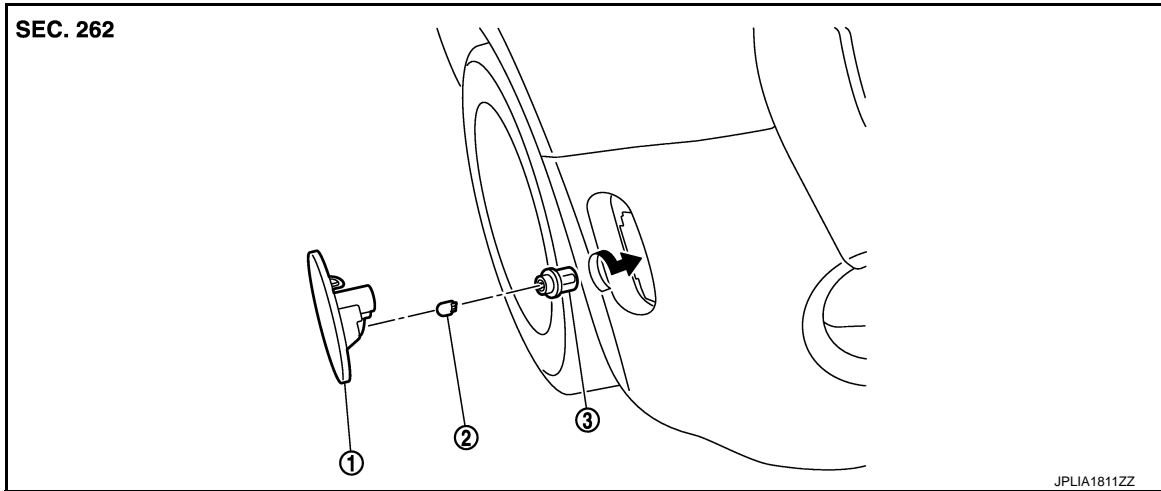
REAR SIDE MARKER LAMP

< REMOVAL AND INSTALLATION >

REAR SIDE MARKER LAMP

Exploded View

INFOID:000000009945227



1. Rear side marker lamp housing 2. Rear side marker lamp 3. Rear side marker lamp socket

Removal and Installation

INFOID:000000009945228

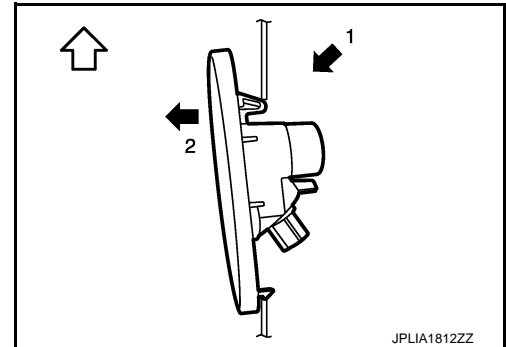
REMOVAL

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

1. Remove rear bumper closing. Refer to [EXT-14, "Exploded View"](#).
2. Disconnect rear side marker lamp connector.
3. Remove rear side marker lamp in numerical order shown in the figure.

← :Vehicle front



INSTALLATION

Install in the reverse order of removal.

Replacement

INFOID:000000009945229

CAUTION:

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

REAR SIDE MARKER LAMP BULB

1. Remove the rear side marker lamp.
2. Rotate the bulb socket counterclockwise and unlock it.
3. Remove the bulb from the bulb socket.

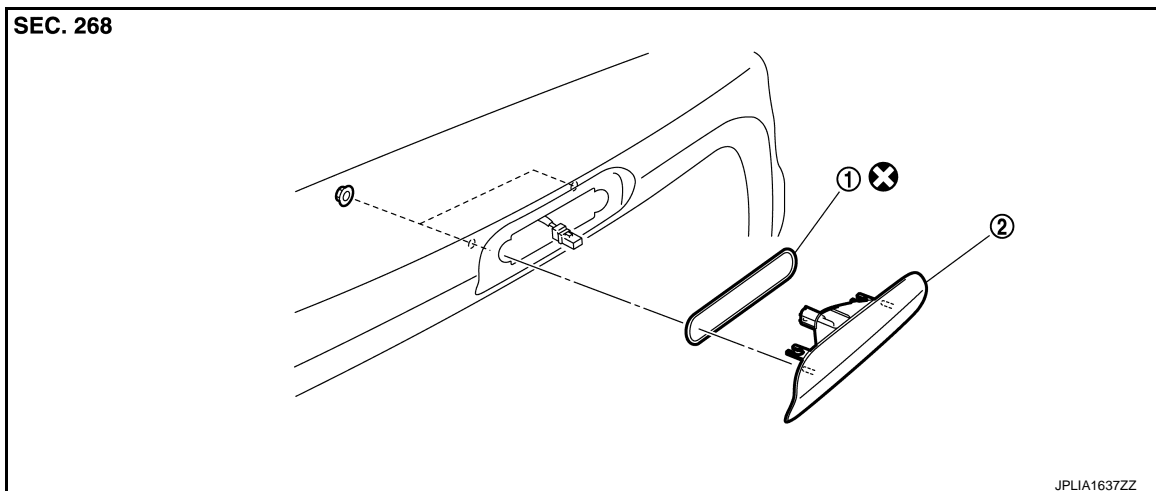
HIGH-MOUNTED STOP LAMP

< REMOVAL AND INSTALLATION >

HIGH-MOUNTED STOP LAMP

Exploded View

INFOID:000000009945230



1. Seal packing
2. High-mounted stop lamp

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000009945231

CAUTION:

Disconnect battery negative terminal or remove the fuse.

REMOVAL

1. Remove the back door finisher upper. Refer to [INT-27, "Exploded View"](#).
2. Remove the mounting nuts.
3. Disconnect the high-mounted stop lamp connector.
4. Pull the high-mounted stop lamp toward rear of the vehicle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

Replacement

INFOID:000000009945232

CAUTION:

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

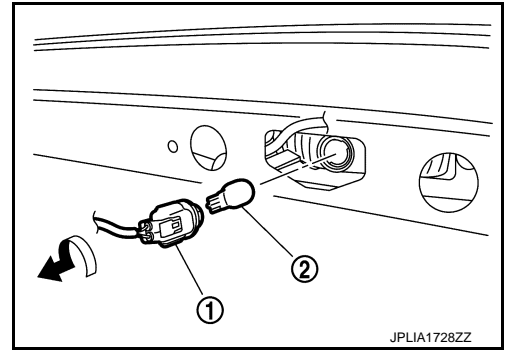
HIGH-MOUNTED STOP LAMP BULB

1. Remove the back door finisher upper. Refer to [INT-27, "Exploded View"](#).

HIGH-MOUNTED STOP LAMP

< REMOVAL AND INSTALLATION >

2. Rotate the bulb socket(1) counterclockwise, and unlock it.
3. Remove the bulb from the bulb(2) socket.



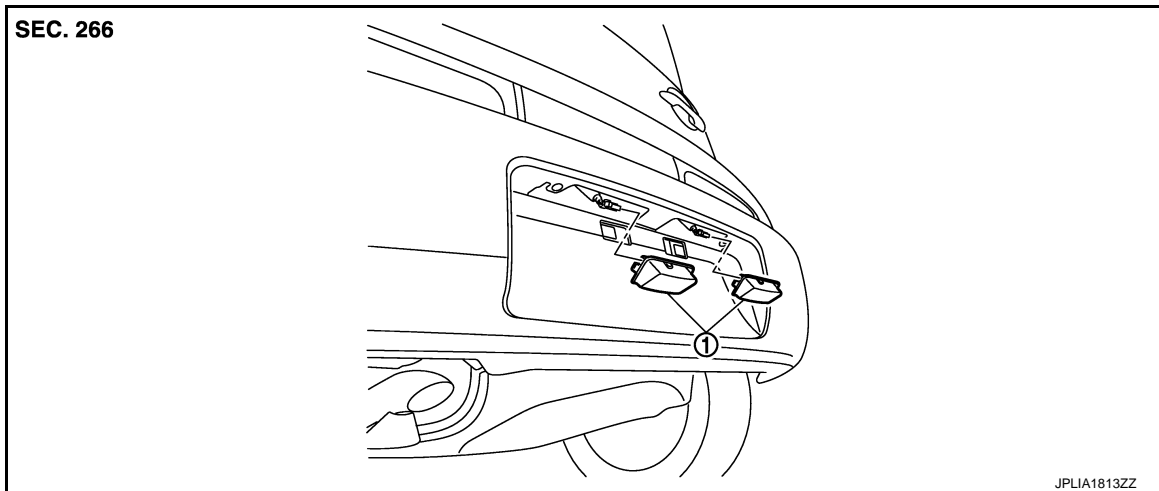
LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

LICENSE PLATE LAMP

Exploded View

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1. License plate lamp

Removal and Installation

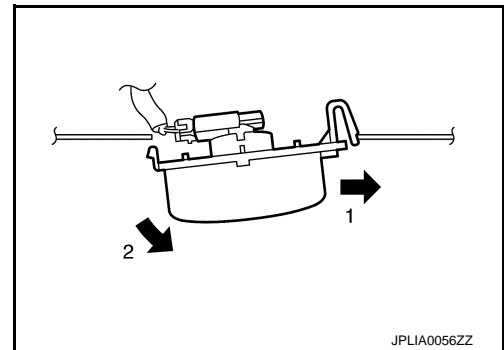
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CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

1. Remove the license plate lamp in numerical order.
2. Disconnect the license plate lamp connector.
3. Remove the license plate lamp.



INSTALLATION

1. Connect the license plate lamp connector.
2. Fix the pawl side. And then push the resin clip side.

Replacement

INFOID:000000009945235

CAUTION:

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

LICENSE PLATE LAMP BULB

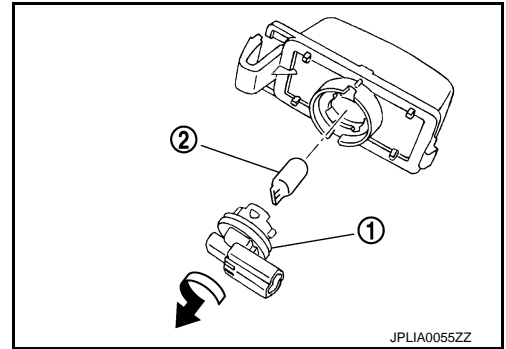
1. Remove the license plate lamp.

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LICENSE PLATE LAMP

< REMOVAL AND INSTALLATION >

2. Turn the bulb socket (1) counterclockwise and unlock it.
3. Remove the bulb (2) from the socket.



SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000009945236

| Item | Type | Wattage (W) |
|------------------------|---------------------------------|---------------------|
| Front combination lamp | Headlamp (HI/LO) | H4 60/55 |
| | Front turn signal lamp | PY21W (Amber) 21 |
| | Parking(front side marker) lamp | W5W 5 |
| Front fog lamp | H8 35 | |
| Side turn signal lamp | WY5W (Amber) 5 | |
| Rear combination lamp | Stop lamp/Tail lamp | W21/5W 21/5 |
| | Rear turn signal lamp | PY21W 16 |
| | Back-up lamp | W16W 21 |
| License plate lamp | W5W 5 | |
| High-mounted stop lamp | W16W — | |
| Rear side marker lamp | W5W 5 | |

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