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< BASIC INSPECTION > [XENON TYPE]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow INFOID:0000000010576238 В

OVERALL SEQUENCE

D Inspection start Е 1. Get information for symptom Get the detailed information about symptom from the customer 2. Check DTC Print out DTC and freeze frame data (or, write it down). Check related service bulletines. Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Try to confirm the symptom described Try to confirm the symptom described by the customer. by the customer. Also study the normal operation and failsafe related to the symptom. 5. Perform DTC CONFIRMATION PROCEDURE 6. Detect malfunctioning system by K SYMPTOM DIAGNOSIS 7. Detect malfunctioning part by Diagnosis Procedure Symptom is **EXL** Symptom is not described. 8. Repair or replace the malfunctioning part Check input/output signal or voltage DTC is 9. Final check Ν Symptom remains. detected. Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction is repaired. DTC is not detected. Symptom does not remain. Р INSPECTION END

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > [XENON TYPE]

1.GET INFORMATION FOR SYMPTOM

- 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 CONFIR-MATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-47, "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 CON-SULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW [XENON TYPE] < BASIC INSPECTION > Inspect according to Diagnosis Procedure of the system. Α Is malfunctioning part detected? YES >> GO TO 8. NO >> Check according to GI-47, "Intermittent Incident". В 8.repair or replace the malfunctioning part Repair or replace the malfunctioning part. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement. Check DTC. If DTC is detected, erase it. D >> GO TO 9. 9. FINAL CHECK When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the Е 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. F Is DTC detected and does symptom remain? YES-1 >> DTC is detected: GO TO 7. YES-2 >> Symptom remains: GO TO 4. >> Before returning the vehicle to the customer, always erase DTC. NO Н K **EXL** M Ν

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION > [XENON TYPE]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000010576239

Perform levelizer adjustment when replacing the AFS control unit. (For details, refer to <u>EXL-8</u>, "<u>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT</u>: Special Repair Requirement".)

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

1.LEVELIZER ADJUSTMENT

Perform levelizer adjustment. Refer to EXL-8, "LEVELIZER ADJUSTMENT: Description".

>> WORK END

LEVELIZER ADJUSTMENT

LEVELIZER ADJUSTMENT : Description

INFOID:0000000010576241

Perform levelizer adjustment when the following operation is performed. (For details, refer to <u>EXL-8</u>, "<u>LEVEL-IZER ADJUSTMENT</u>: Special Repair Requirement".)

- · Replacing AFS control unit
- Removing, installing or replacing height sensor
- · Adjusting, removing, installing or replacing suspension components

LEVELIZER ADJUSTMENT : Special Repair Requirement

INFOID:0000000010576242

1. CHECK VEHICLE CONDITION

- 1. Park the vehicle in the straight-forward position.
- Unload the vehicle (no passenger aboard).

>> GO TO 2.

2.LEVELIZER ADJUSTMENT

(P)CONSULT WORK SUPPORT

- 1. Select "LEVELIZER ADJUSTMENT" of ADAPTIVE LIGHT work support item.
- 2. Select "START".
- When "ADJUSTMENT IS COMPLETED", select "END".

CAUTION:

If "CAN NOT BE TESTED" is indicated, AFS control unit detects that the height sensor signal changes. The levelizer adjustment is cancelled. In this case, turn the ignition switch OFF to prevent the vehicle from the height change. Perform the levelizer adjustment again.

Is the levelizer adjustment completed?

YES >> GO TO 3.

NO >> Perform the levelizer adjustment again.

3.self-diagnosis result check

Perform self-diagnosis with CONSULT. Check that any DTC is not detected.

Is any DTC detected?

YES >> GO TO 2. NO >> WORK END

[XENON TYPE]

INFOID:0000000010576243

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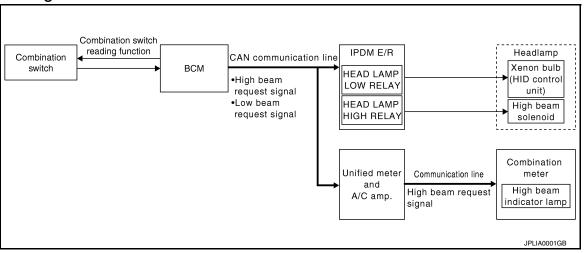
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SYSTEM DESCRIPTION

HEADLAMP SYSTEM

System Diagram



System Description

INFOID:0000000010576244

OUTLINE

- Mobile valve shade type is adopted. Xenon headlamp switches the high beam and the low beam with one xenon bulb each on right and left.
- Headlamp is controlled by combination switch reading function and headlamp control function of BCM, and relay control function of IPDM E/R.

HEADLAMP BASIC 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 ON condition.

Headlamp ON condition

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

HEADLAMP HI/LO SWITCHING OPERATION

• BCM transmits the high beam request signal to IPDM E/R and the combination meter (through the unified meter and A/C amp.) with CAN communication according to the high beam switching condition.

High beam switching condition

- Lighting switch HI with the headlamp ON
- 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.

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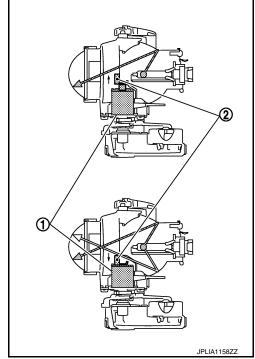
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HEADLAMP SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

- When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (2) is switched to the high beam position.
- When the headlamp high relay is turned OFF, the current stops.
 The mobile valve shade returns to the low beam position automatically.



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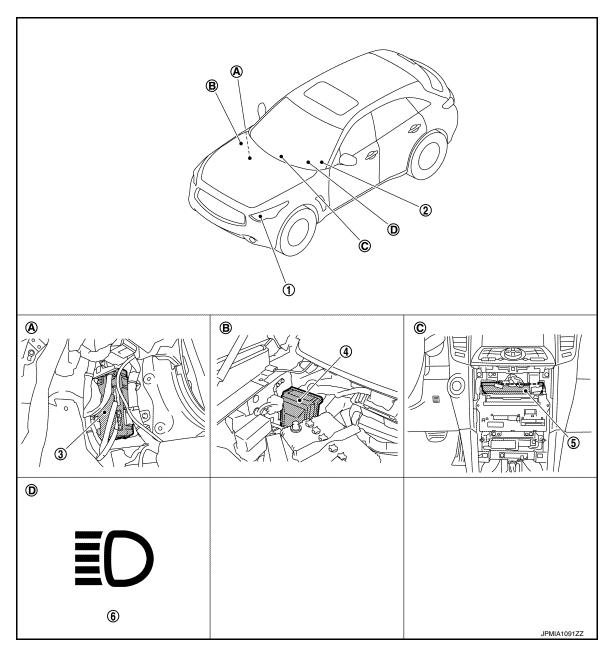
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- 1. Headlamp
- 4. IPDM E/R
- A. Dash side lower (passenger side)
- D. On the combination meter
- 2. Combination switch
- 5. Unified meter and A/C amp.
- B. Engine room dash panel (RH)
- 3. BCM
- 6. High beam indicator lamp
- C. Behind cluster lid C

Component Description

| Part | Description |
|----------|--|
| ВСМ | 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 (through the unified meter and A/C amp.)]. |
| IPDM E/R | Controls the integrated relay, and supplies voltage to the load according to the request from BCM (with CAN communication). |

HEADLAMP SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

| | Part | Description |
|--|---------------------------------|--|
| Combination switch (Lighting & turn sign | | Refer to BCS-11, "System Diagram". |
| Combination meter (High beam indicate | | Turns the high beam indicator lamp ON according to the request from BCM [with CAN communication (through the unified meter and A/C amp.)]. |
| Headlamp assem- | HID control unit Xenon bulb | Refer to EXL-72, "Description". |
| bly | High beam solenoid | Refer to EXL-67, "Description". |

[XENON TYPE]

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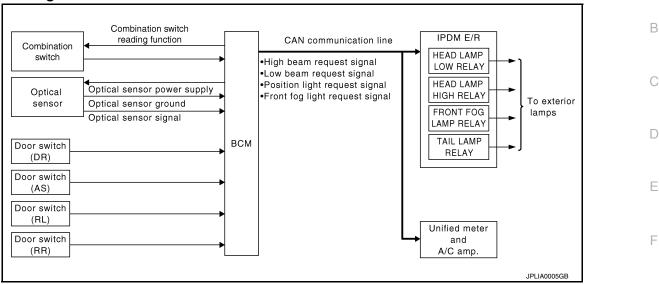
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AUTO LIGHT SYSTEM

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

Control by IPDM E/R

- Relay control function
- Auto light system has the auto light function and the delay timer function.
- Auto light function turns the exterior lamps* and each illumination ON/OFF automatically according to the outside brightness.
- 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, side marker lamp, tail lamp, license plate lamp and front fog lamp (Headlamp HI and front fog lamp depend on the combination switch condition.)

AUTO LIGHT FUNCTION

- BCM detects the combination switch condition with the combination switch reading function.
- BCM supplies voltage to 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 judges outside brightness from the optical sensor signal and judges ON/OFF condition of the exterior lamp and each illumination according to the outside brightness.
- BCM transmits each request signal to IPDM E/R with CAN communication according to ON/OFF condition by the auto light function.

NOTE:

ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT. Refer to EXL-34, "HEADLAMP: CONSULT Function (BCM - HEAD LAMP)".

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).

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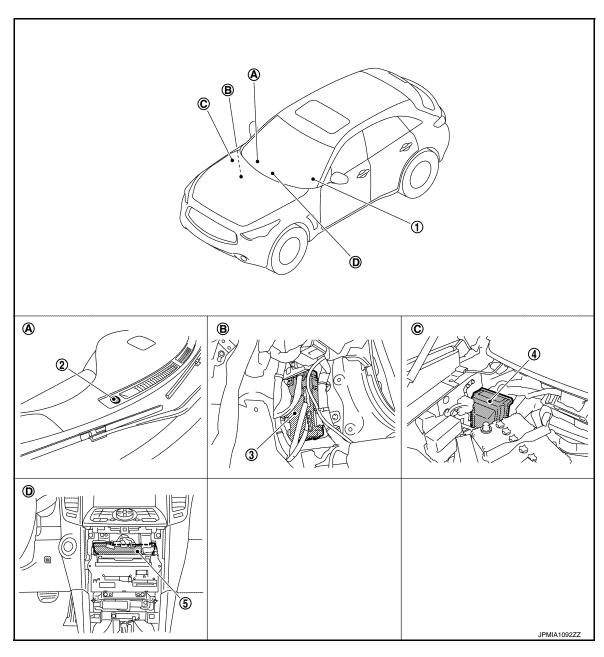
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- Turns the exterior lamp OFF with the ignition switch ACC or the light switch OFF.
- *: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to <u>EXL-34</u>, "<u>HEAD-LAMP</u>: CONSULT Function (BCM HEAD LAMP)".

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



- 1. Combination switch
- 4. IPDM E/R
- A. Instrument upper panel (RH)
- D. Behind cluster lid C
- 2. Optical sensor
- 5. Unified meter and A/C amp.
- B. Dash side lower (passenger side)
- 3. BCM
- C. Engine room dash panel (RH)

AUTO LIGHT SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

Component Description

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| Part | Description |
|--|--|
| BCM | 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". |
| Optical sensor | Refer to EXL-84, "Description". |

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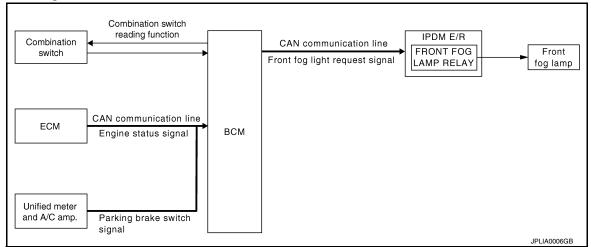
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DAYTIME RUNNING LIGHT SYSTEM

System Diagram

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System Description

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OUTLINE

- Turns the front fog lamp ON as the daytime running light.
- Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and relay control function of IPDM E/R.

DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the vehicle condition depending on the following signals.
- Engine condition signal (received from ECM with CAN communication)
- Parking brake switch signal (received from unified meter and A/C amp. with CAN communication)
- BCM transmits the front fog light request signal to IPDM E/R with CAN communication according to the daytime running light ON condition.

Daytime running light ON condition

While the engine running with the parking brake released

Daytime running light OFF condition

- Engine stopped
- Headlamp ON (passing included)
- IPDM E/R turns the integrated front fog lamp relay ON and turns the front fog lamp ON according to the front fog light request signal.

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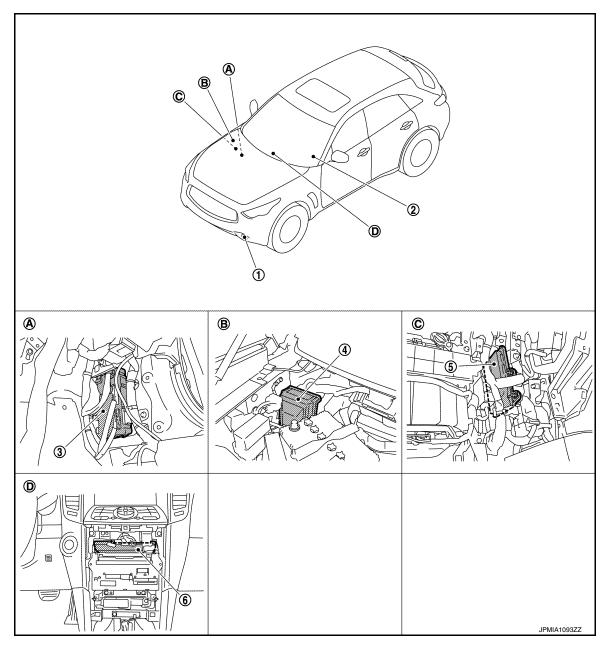
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- 1. Daytime running light (Front fog lamp)
- 4. IPDM E/R
- A. Dash side lower (passenger side)
- D. Behind the cluster lid C
- 2. Combination switch
- 5. ECM
- B. Engine room dash panel (RH)
- 3. BCM
- 6. Unified meter and A/C amp.
- C. Behind the glove box

Component Description

| Part | Description |
|----------|--|
| BCM | Detects each switch condition with the combination switch reading function. Judges the headlamp ON/OFF status according to the vehicle condition. Requests the front fog lamp relay ON 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). |

DAYTIME RUNNING LIGHT SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

| Part | Description |
|--|--|
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| ECM | Transmits the engine condition signal to BCM with CAN communication. |
| Unified meter and A/C amp. | Transmits the parking brake switch signal to BCM with CAN communication. |

< SYSTEM DESCRIPTION >

[XENON TYPE]

ACTIVE ADAPTIVE FRONT-LIGHTING SYSTEM

System Diagram

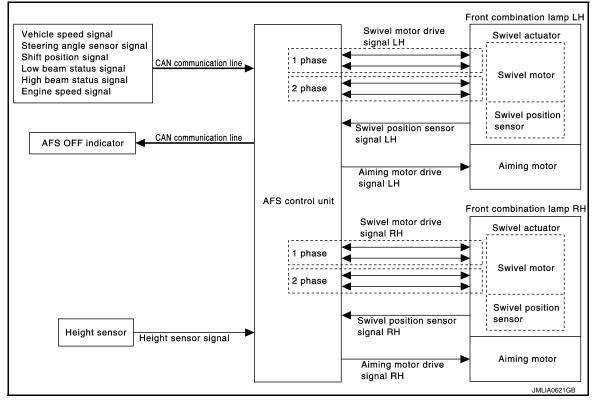
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System Description

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OUTLINE

- AFS (ACTIVE ADAPTIVE FRONT-LIGHTING SYSTEM) is controlled by AFS control unit.
- AFS has AFS control (swivel control) and the headlamp auto aiming control.
- AFS control swivels the headlamp to the steering direction.
- Headlamp auto aiming control moves the headlamp light axis up/down according to the vehicle height.

AFS (ADAPTIVE FRONT-LIGHTING SYSTEM)

AFS Control Description

- AFS control controls the headlamp (right) only when the steering wheel is turned rightward, and the headlamp (left) only when the steering wheel is turned leftward.
- AFS control unit detects the vehicle condition necessary for AFS control with the following signals.
- Steering angle sensor signal (received from steering angle sensor with CAN communication)
- Engine speed signal (received from ECM with CAN communication)
- Shift position signal (received from TCM with CAN communication)
- Low beam status and high beam status (received from IPDM E/R with CAN communication)
- Vehicle speed signal (received from unified meter and A/C amp. with CAN communication)
- · When the operation conditions are satisfied, AFS control unit controls the swivel angle depending on the steering angle and the vehicle speed.

AFS operation condition

- Swivel actuator initialization completed
- Headlamp ON
- While the engine running
- Selector lever position other than "P" or "R"
- Vehicle speed approximately 25 km/h (15.5 MPH) or more (left swivel only; Right swivel activates regardless of the vehicle speed.)

Swivel Actuator Initialization

AFS control unit performs the swivel actuator initialization when detecting that the engine starts.

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ACTIVE ADAPTIVE FRONT-LIGHTING SYSTEM

[XENON TYPE]

< SYSTEM DESCRIPTION >

- Swivels the headlamp to the vehicle-center side until it hits the stopper.
- Returns the swivel angle from the stopper. Completes the initialization with regarding the returned position as the swivel angle 0° (straight-forward position).

Swivel Operation

- AFS control unit transmits the drive signal to the swivel actuator when activation conditions are satisfied. And swivels the headlamp.
- The swivel starts after steering approximately 20° or more from straight-forward position.

NOTE:

The steering angle differs between right turn and left turn.

- The swivel angle becomes the maximum angle toward the driving direction if the steering angle is approximately 90° or more depending on the vehicle speed. The swivel angle is maintained by shutting off the drive signal.
- The swivel starts, and returns to the swivel angle 0° (straight-forward position) when the steering is returned to the straight-forward position.
- AFS control unit returns the swivel angle to the straight-forward position, and stops the swivel regardless of the steering angle if the operation condition is not satisfied while the swivel angle is 0°.

AFS OFF Indicator Lamp

- AFS control unit transmits AFS OFF indicator lamp signal to the combination meter (through the unified meter and A/C amp.) with CAN communication.
- Combination meter turns AFS OFF indicator lamp ON/OFF/blinking according to AFS OFF indicator lamp signal.
- AFS OFF indicator lamp is turned ON for 1 second for the AFS OFF indicator lamp bulb check when the ignition switch is turned ON. AFS OFF indicator lamp is turned OFF within 1 second when the engine starts.
- AFS OFF indicator lamp blinks (1 second each) if AFS control unit detects a specific DTC.
 NOTE:

Combination meter blinks AFS OFF indicator lamp (approximately 1 second each) if AFS OFF indicator lamp signal is not received from AFS control unit.

HEADLAMP AUTO AIMING

Headlamp Auto Aiming Control Description

- Headlamp auto aiming control controls the headlamp light axis height appropriately according to the vehicle height.
- AFS control unit detects the vehicle condition necessary for headlamp auto aiming control with the following signals.
- Height sensor signal
- Engine speed signal (received from ECM with CAN communication)
- Low beam status signal and high beam status signal (received from IPDM E/R with CAN communication)
- Vehicle speed signal (received from unified meter and A/C amp. with CAN communication)
- When the operation conditions are satisfied, AFS control unit transmits the aiming motor drive signal for adjusting the headlamp axis height.

Headlamp auto aiming operation condition

- Headlamp ON
- While the engine running
- Vehicle speed (Control mode is switched according to the driving condition.)

Headlamp Auto Aiming Operation

 AFS control unit calculates the vehicle pitch angle from the height sensor signal. AFS control unit judges the angle for adjusting the axis gap from the preset position.
 CAUTION:

Adjusted axis position may differ from the preset position although the headlamp auto aiming activates properly if the suspension is replaced or worn.

- AFS control unit controls the headlamp axis by changing the aiming motor drive signal output according to the vehicle-rearward height when detecting the following vehicle condition. Output is maintained if other condition than following is detected.
- Engine starts.
- Headlamp is turned ON.
- Vehicle posture becomes stable after changing the vehicle posture change is detected with the headlamp ON and the vehicle stopped.
- Vehicle speed is maintained with the headlamp ON and the vehicle driven.

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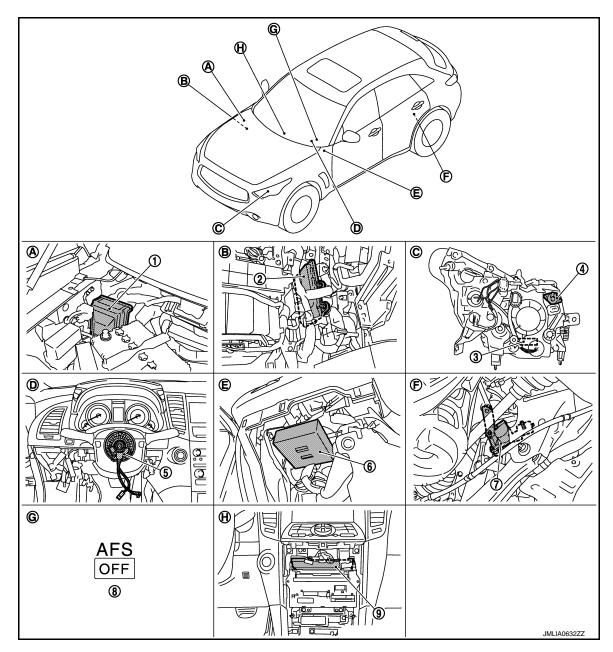
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- 1. IPDM E/R
- 4. Aiming motor
- 7. Height sensor
- A. Engine room dash panel (RH)
- D. Steering column cover (inside)
- G. On the combination meter
- 2. ECM
- 5. Steering angle sensor
- 8. AFS OFF indicator lamp
- B. Behind the glove box
- E. Behind the instrument driver lower panel
- H. Behind the cluster lid C

- Swivel actuator
- 6. AFS control unit
- 9. Unified meter and A/C amp.
- C. Front combination lamp (back)
- F. Rear suspension member (LH)

Component Description

| Part | Description |
|------------------|---------------------------------|
| AFS control unit | Refer to EXL-57, "Description". |
| Swivel actuator | Refer to EXL-45, "Description". |

ACTIVE ADAPTIVE FRONT-LIGHTING SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

| Part | Description |
|----------------------------|---|
| Aiming motor | Refer to EXL-74, "Description". |
| Height sensor | Refer to EXL-51, "Description". |
| Steering angle sensor | Refer to EXL-60, "Description". |
| IPDM E/R | Transmits the headlamp (LO) ON signal and the headlamp (HI) ON signal to AFS control unit with CAN communication. |
| ECM | Transmits the engine speed signal to AFS control unit with CAN communication. |
| TCM | Refer to EXL-54, "Description". |
| Unified meter and A/C amp. | Refer to EXL-55, "Description". |
| Combination meter | Turns AFS OFF indicator lamp ON/OFF/blinking according to AFS control unit request [with CAN communication (through the unified meter and A/C amp.)]. |

[XENON TYPE]

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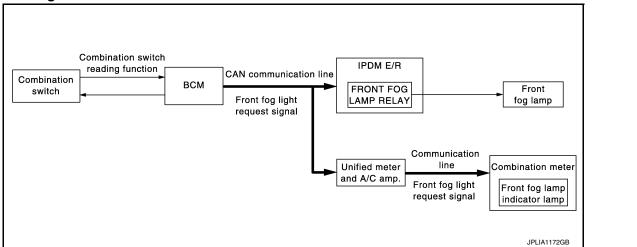
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FRONT FOG LAMP SYSTEM

System Diagram



System Description

INFOID:0000000010576260

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.

NOTE:

For Canada models, the front fog lamp is turned ON as the daytime running light. Refer to <u>EXL-16</u>, "System <u>Diagram"</u> for the detail.

FRONT FOG LAMP OPERATION

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

Front fog lamp ON condition

- Front fog lamp switch ON with the headlamp ON (except for the high beam ON)
- IPDM E/R turns the integrated front fog lamp relay ON, and turns the front fog lamp ON according to the front fog light request signal.
- Combination meter turns the front fog lamp indicator lamp ON according to the front fog light request signal.

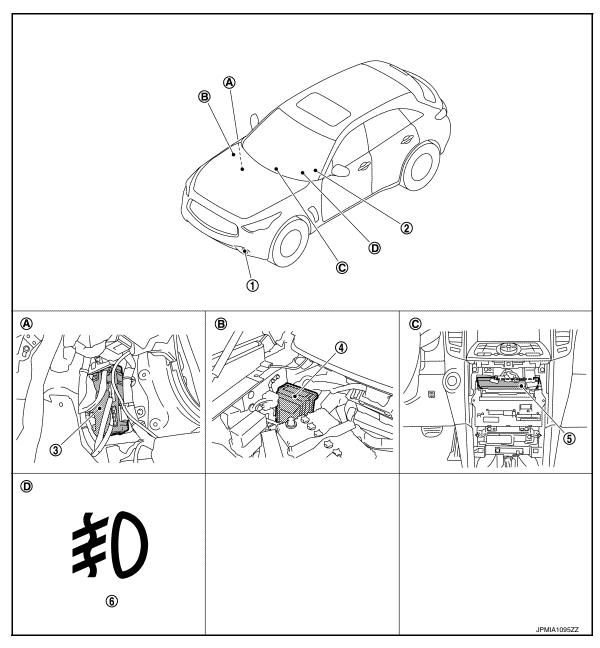
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- 1. Front fog lamp
- 4. IPDM E/R
- A. Dash side lower (passenger side)
- D. On the combination meter
- 2. Combination switch
- 5. Unified meter and A/C amp.
- B. Engine room dash panel (RH)
- 3. BCM
- 6. Front fog lamp indicator lamp
- C. Behind the cluster lid C

Component Description

| Part | Description |
|----------|--|
| BCM | 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). |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the request from BCM (with CAN communication). |

FRONT FOG LAMP SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

| Part | Description |
|--|---|
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". |
| Combination meter (Front fog lamp indicator lamp) | Turns the front fog lamp indicator lamp ON according to the request from BCM [with CAN communication (through the unified meter and A/C amp.)]. |

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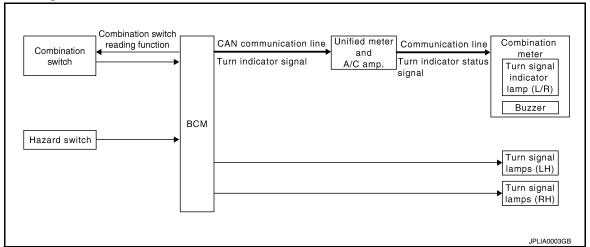
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

System Diagram

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System Description

INFOID:0000000010576264

OUTLINE

Turn signal 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 SOUND OPERATION

- BCM transmits the turn signal indicator lamp signal to the combination meter (through the unified meter and A/C amp.) with CAN communication while the turn signal lamp and the hazard warning lamp 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 (FAIL-SAFE)

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

NOTE:

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

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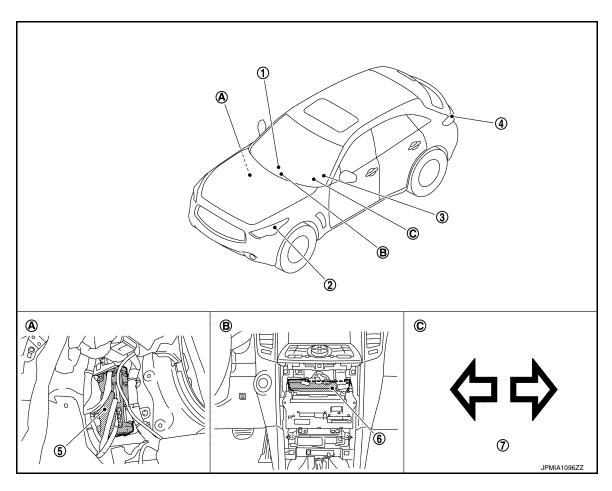
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- 1. Hazard switch
- 4. Rear turn signal lamp
- 7. Turn signal indicator lamp
- A. Dash side lower (passenger side)
- 2. Front turn signal lamp
- 5. BCM
- B. Behind the cluster lid C
- 3. Combination switch
- 6. Unified meter and A/C amp.
- C. On the combination meter

Component Description

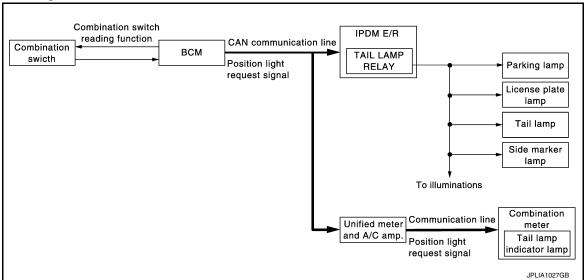
| Part | Description | | |
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| ВСМ | Detects each switch condition by the combination switch reading function. Judges the blinks of the turn signal lamp and the hazard warning lamp from each switch status. The applicable turn signal lamp blinks. Requests 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". | | |
| Hazard switch (Multifunction switch) | Refer to EXL-87, "Description". | | |
| 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 (through the unified meter and A/C amp.)]. | | |

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

System Diagram

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System Description

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OUTLINE

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

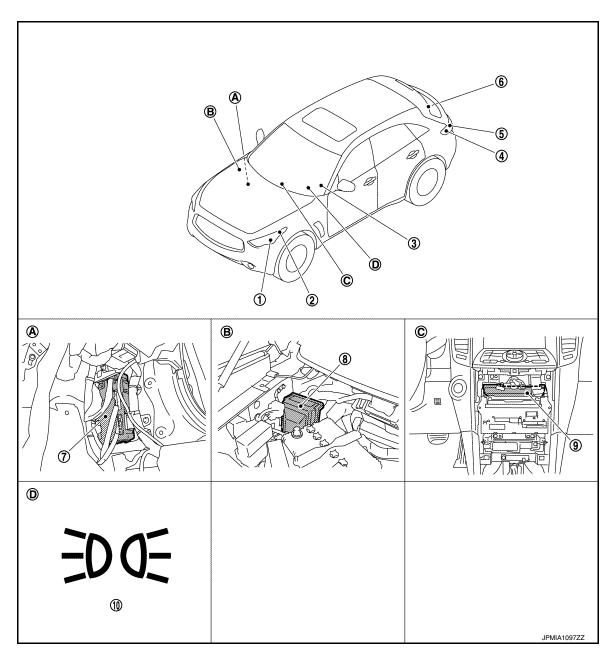
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS OPERATION

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

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

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO, and the auto light function ON judgment
- IPDM E/R turns the integrated tail lamp relay ON and turns the parking lamp, license plate, side marker and tail 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.

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- 1. Parking lamp
- 4. Rear side marker lamp
- 7. BCM
- 10. Tail lamp indicator lamp
- A. Dash side lower (passenger side)
- D. On the combination meter
- Front side marker lamp
- 5. Tail lamp
- 8. IPDM E/R
- B. Engine room dash panel (RH)
- 3. Combination switch
- 6. License plate lamp
- 9. Unified meter and A/C amp.
- C. Behind the cluster lid C

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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< SYSTEM DESCRIPTION >

[XENON TYPE]

Component Description

| Part | Description | |
|--|---|--|
| ВСМ | Detects each switch condition by the combination switch reading function. Judges the ON/OFF status of the parking, license plate, side marker and tail lamps according to the vehicle condition. Requests the tail lamp relay ON to IPDM E/R (with CAN communication). | |
| IPDM E/R | Controls the integrated relay and supplies voltage to the load according to the requestrom BCM (with CAN communication). | |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". | |
| Combination meter (Tail lamp indicator lamp) | Turn the tail lamp indicator lamp ON according to the request from BCM [with CAN communication (through the unified meter and A/C amp.)]. | |

[XENON TYPE]

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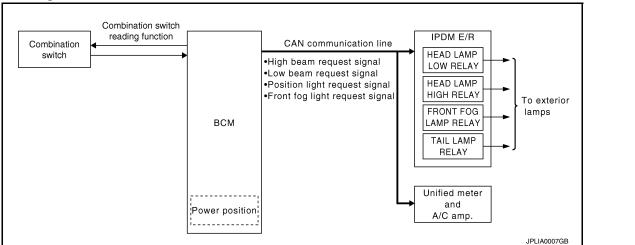
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EXTERIOR LAMP BATTERY SAVER SYSTEM

System Diagram



System Description

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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 lamp, tail lamp, side marker lamp, license plate lamp and front fog lamp **NOTE:**

When the lighting switch is turned AUTO, the exterior lamp battery saver switches to the auto light system. Refer to <u>EXL-13</u>, "System Diagram".

EXTERIOR LAMP BATTERY SAVER ACTIVATION

BCM activates the timer and turns the exterior lamp OFF 5 minutes after the ignition switch is turned from ON → OFF with the exterior lamps ON.

NOTE:

- 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.

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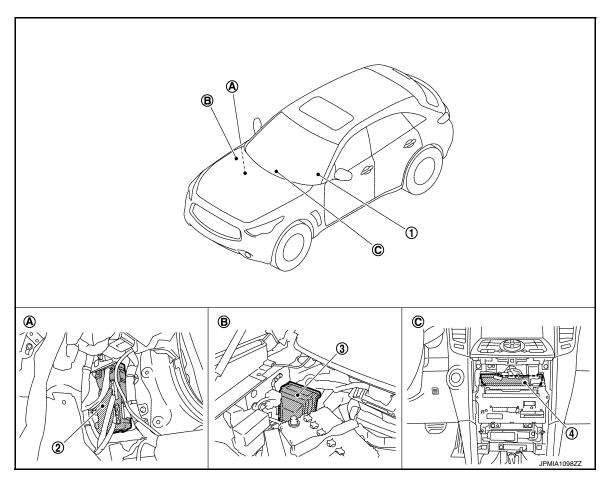
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- 1. Combination switch
- 4. Unified meter and A/C amp.
- A. Dash side lower (passenger side)
- 2. BCM
- B. Engine room dash panel (RH)
- 3. IPDM E/R
- C. Behind cluster lid C

Component Description

| Part | Description | | |
|--|---|--|--|
| всм | Detects each switch condition by the combination switch reading function. Judges the exterior lamp 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 commucation). | | |
| Combination switch (Lighting & turn signal switch) | Refer to BCS-11, "System Diagram". | | |

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[XENON TYPE]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011009262

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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 | 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

| Cuetom | Sub avatam calcation item | Diagnosis mode | | |
|--|---------------------------|----------------|--------------|-------------|
| System | Sub system selection item | Work Support | Data Monitor | Active Test |
| Door lock | DOOR LOCK | × | × | × |
| Rear window defogger | REAR DEFOGGER | | × | × |
| Warning chime | BUZZER | | × | × |
| Interior room lamp timer | INT LAMP | × | × | × |
| Exterior lamp | HEAD LAMP | × | × | × |
| Wiper and washer | WIPER | × | × | × |
| Turn signal and hazard warning lamps | FLASHER | × | × | × |
| _ | AIR CONDITONER* | | | |
| Intelligent Key system Engine start system | INTELLIGENT KEY | × | × | × |
| Combination switch | COMB SW | | × | |
| Body control system | ВСМ | × | | |
| IVIS - NATS | IMMU | | × | × |
| Interior room lamp battery saver | BATTERY SAVER | × | × | × |
| Back door open | TRUNK | | × | × |
| Vehicle security system | THEFT ALM | × | × | × |
| RAP system | RETAINED PWR | | × | |
| Signal buffer system | SIGNAL BUFFER | | × | × |

NOTE:

FREEZE FRAME DATA (FFD)

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

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

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

NOTE:

- *: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, 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 supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEAD LAMP)

INFOID:0000000010576276

WORK SUPPORT

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| Service item | Setting item | Setting | | | |
|---------------------|--------------|--|---|--|--|
| | MODE 1* | Normal | | | |
| CUSTOM A/LIGHT SET- | MODE 2 | More sensitive setting than normal setting (Turns ON earlier than normal operation.) | | | |
| TING | MODE 3 | More sensitive setting than MODE 2 (Turns ON earlier than MODE 2.) | | | |
| | MODE 4 | Less sensitive setting than normal setting (Turns ON later than normal operation.) | | | |
| BATTERY SAVER SET | On* | With the exterior la | amp battery saver function | | |
| DATTERT SAVER SET | Off | Without the exterior lamp battery saver function | | | |
| | MODE 1* | 45 sec. | | | |
| | MODE 2 | Without the function | | | |
| | MODE 3 | 30 sec. | | | |
| ILL DELAY SET | MODE 4 | 60 sec. | Sets delay timer function timer operation time. | | |
| | MODE 5 | 90 sec. | (All doors closed) | | |
| | MODE 6 | 120 sec. | | | |
| | MODE 7 | 150 sec. | | | |
| | MODE 8 | 180 sec. | | | |

^{*:} 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] | The switch status input from push-button ignition switch |
| ENGINE STATE [Stop/Stall/Crank/Run] | The engine status received from ECM with CAN communication |
| VEH SPEED 1 [km/h] | The value of the vehicle speed received from unified meter and A/C amp. with CAN communication |
| KEY SW-SLOT [On/Off] | Key switch status input from key slot |
| TURN SIGNAL R [On/Off] | |
| TURN SIGNAL L [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| HI BEAM SW [On/Off] | |
| HEAD LAMP SW1 [On/Off] | Each switch status that BCM judges from the combination switch reading function |
| HEAD LAMP SW2 [On/Off] | |
| PASSING SW [On/Off] | |
| AUTO LIGHT SW [On/Off] | |
| FR FOG SW [On/Off] | |

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| Monitor item [Unit] | Description |
|-------------------------|--|
| DOOR SW-DR [On/Off] | The switch status input from front door switch (driver side) |
| DOOR SW-AS [On/Off] | The switch status input from front door switch (passenger side) |
| DOOR SW-RR [On/Off] | The switch status input from rear door switch RH |
| DOOR SW- RL [On/Off] | The switch status input from rear door switch LH |
| DOOR SW-BK [On/Off] | NOTE: The item is indicated, but not monitored. |
| OPTICAL SENSOR [V] | The value of exterior brightness voltage input from the optical sensor |

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 position light request signal transmission. | | |
| | Hi | Transmits the high beam request signal with CAN communication to turn the headlamp (HI). | | |
| HEAD LAMP | Low | 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 | Transmits the front fog light request signal to IPDM E/R with CAN communication to turn the front fog lamp ON. | | |
| | Off | Stops the front fog light request signal transmission. | | |
| RR FOG LAMP | On | NOTE: | | |
| RR FOG LAWIF | Off | The item is indicated, but cannot be tested. | | |
| | RH | | | |
| CORNERING LAMP | LH | NOTE: The item is indicated, but cannot be tested. | | |
| | Off | , | | |
| ILL DIM SIGNAL | On | NOTE: | | |
| ILL DIM SIGNAL | Off | The item is indicated, but cannot be tested. | | |

FLASHER

FLASHER: CONSULT Function (BCM - FLASHER)

INFOID:0000000010576277

WORK SUPPORT

| Service item | Setting item | Setting | | |
|-----------------------|--------------|------------------------|---|--|
| Lock/Unlk* | | With locking/unlocking | | |
| HAZARD ANSWER BACK | Unlk Only | With unlocking only | Sets the hazard warning lamp answer back function when the door is lock/unlock with the request switch or | |
| | Lock Only | With locking only | the key fob. | |
| | Off | Without the function | | |

^{*:} Factory setting

DATA MONITOR

NOTE:

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

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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] | The switch status input from the request switch (driver side) | |
| REQ SW-AS [On/Off] | The switch status input from the request switch (passenger side) | |
| PUSH SW [On/Off] | The switch status input from the push-button ignition switch | |
| TURN SIGNAL R [On/Off] | Each quitab condition that DCM judges from the combination quitab reading for | |
| TURN SIGNAL L [On/Off] | Each switch condition that BCM judges from the combination switch reading function | |
| HAZARD SW [On/Off] | The switch status input from the hazard switch | |
| RKE-LOCK [On/Off] | Lock signal status received from the remote keyless entry receiver | |
| RKE-UNLOCK [On/Off] | Unlock signal status received from the remote keyless entry receiver | |
| RKE-PANIC [On/Off] | Panic alarm signal status received from the remote keyless entry receiver | |

ACTIVE TEST

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

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[XENON TYPE]

DIAGNOSIS SYSTEM (IPDM E/R)

Diagnosis Description

INFOID:0000000011009263

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
- Front wiper (LO, HI)
- Parking lamps
- · License plate lamps
- Side marker lamps
- Tail lamps
- Front fog lamps
- Headlamps (LO, HI)
- A/C compressor (magnet clutch)
- Cooling fan (cooling fan control module)

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.

- 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 ignition switch OFF. **CAUTION**:

If auto active test mode cannot be actuated, check door switch system. Refer to <u>DLK-107</u>, "Component Function Check".

Do not start the engine.

Inspection in Auto Active Test Mode

When auto active test mode is actuated, the following 5 steps are repeated 3 times.

| Operation sequence | Inspection location | Operation |
|--------------------|--|--|
| Α | Oil pressure warning lamp | Blinks continuously during operation of auto active test |
| 1 | Front wiper | LO for 5 seconds → HI for 5 seconds |
| 2 | Parking lampsLicense plate lampsSide marker lampsTail lampsFront fog lamps | 10 seconds |
| 3 | Headlamps | LO 10 seconds HI ON ⇔ OFF 5 times |
| 4 | A/C compressor (magnet clutch) | ON ⇔ OFF 5 times |
| 5* | Cooling fan | MID for 5 seconds → HI for 5 seconds |

^{*:} Outputs duty ratio of 50% for 5 seconds \rightarrow duty ratio of 100% for 5 seconds on the cooling fan control module.

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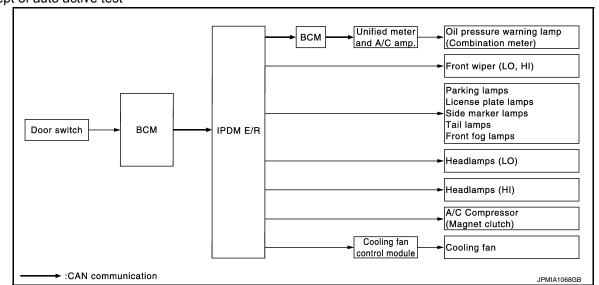
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Concept of auto active test



- 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

Revision: 2015 February

| Symptom | Inspection contents | | Possible cause |
|--|---|-----|---|
| Any of the following components do not operate | | YES | BCM signal input circuit |
| Parking lamps License plate lamps Side marker lamps Tail lamps Front fog lamps Headlamp (HI, LO) Front wiper | Perform auto active test. Does the applicable system operate? | NO | 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 | Unified meter and A/C amp. signal input circuit CAN communication signal between unified meter and A/C amp. and ECM CAN communication signal between ECM and IPDM E/R |
| | | NO | Magnet clutch Harness or connector between IPDM E/R and magnet clutch IPDM E/R |
| | Perform auto active test. | YES | Harness or connector between IPDM E/R and oil pressure switch Oil pressure switch IPDM E/R |
| Oil pressure warning lamp does not operate | Does the oil pressure warning lamp blink? | NO | CAN communication signal between IPDM E/R and BCM CAN communication signal between BCM and unified meter and A/C amp. Combination meter |

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DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

| Symptom | Inspection contents | | Possible cause |
|------------------------------|---|-----|--|
| | | YES | ECM signal input circuit CAN communication signal between ECM and IPDM E/ R |
| Cooling fan does not operate | Perform auto active test. Does the cooling fan operate? | NO | Cooling fan Harness or connector between cooling fan and cooling fan control module Cooling fan control module Harness or connector between IPDM E/R and cooling fan control module Cooling fan relay Harness or connector between IPDM E/R and cooling fan relay IPDM E/R |

CONSULT Function (IPDM E/R)

INFOID:0000000011009264

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-194, "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 SIG- NALS | Description |
|----------------------------------|-------------------|--|
| RAD FAN REQ [%] | × | Displays the value of the cooling fan speed 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. |
| 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 stop position signal judged by IPDM E/R. |

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

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| Monitor Item [Unit] | MAIN SIG- NALS | Description |
|--------------------------------------|-------------------|---|
| 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 shift position 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 /INHI/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 A/T 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] | | 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] | | Displays the status of the hood switch judged by IPDM E/R. |
| HL WASHER REQ [Off] | | 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. |
| CRNRNG LMP REQ [Off] | | NOTE: The item is indicated, but not monitored. |

ACTIVE TEST

Test item

| Test item | Operation | Description |
|----------------|-----------|--|
| | Off | |
| CORNERING LAMP | LH | NOTE: The item is indicated, but cannot be tested. |
| | RH | |
| HORN | On | Operates horn relay 1 and horn relay 2 for 20 ms. |
| | Off | OFF |
| FRONT WIPER | Lo | Operates the front wiper relay. |
| | Hi | Operates the front wiper relay and front wiper high relay. |

DIAGNOSIS SYSTEM (IPDM E/R)

< SYSTEM DESCRIPTION >

[XENON TYPE]

| Test item | Operation | Description |
|------------------|-----------|---|
| | 1 | OFF |
| MOTOR FAN | 2 | Outputs 50% pulse duty signal (PWM signal) to the cooling fan control module. |
| MOTOR FAN | 3 | Outputs 80% pulse duty signal (PWM signal) to the cooling fan control module. |
| | 4 | Outputs 100% pulse duty signal (PWM signal) to the cooling fan control module. |
| HEAD LAMP WASHER | On | NOTE: The item is indicated, but cannot be tested. |
| | Off | OFF |
| EXTERNAL LAMPS | 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. |

DIAGNOSIS SYSTEM (AFS)

< SYSTEM DESCRIPTION >

[XENON TYPE]

DIAGNOSIS SYSTEM (AFS)

CONSULT Function (ADAPTIVE LIGHT)

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APPLICATION ITEM

| Diagnostic mode | Description |
|------------------------|--|
| ECU Identification | Allows confirmation of AFS control unit part number. |
| Self Diagnostic Result | Displays the diagnosis results judged by AFS control unit. |
| Work support | Sets each sensor. |
| Data monitor | Indicates AFS control unit input data in real time. |
| Active test | Provides the drive signal to the load. Checks operation. |

WORK SUPPORT

| Service item | Description |
|------------------------|--|
| ST ANG SEN ADJUSTMENT* | _ |
| LEVELIZER ADJUSTMENT | Adjusts the height sensor signal output value (AFS control unit recognized) in the unloaded vehicle condition. |

^{*:} Adjusts the steering angle sensor neutral position on ABS actuator and electrical unit (control unit) side. Refer to BRC-9, "ADJUST-MENT OF STEERING ANGLE SENSOR NEUTRAL POSITION: Special Repair Requirement".

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 |
|-----------------------------------|--|
| STR ANGLE SIG [°] | The steering angle value judged by the steering angle sensor signal received from the steering angle sensor with CAN communication |
| VHCL SPD [km/h] | The vehicle speed signal value from the unified meter and A/C amp. with CAN communication |
| SLCT LVR POSI [P - 1] | The selector lever status judged by the position indicator signal received from TCM with CAN communication |
| HEAD LAMP [On/Off] | The headlamp On/Off status judged by the low beam headlamp (ON) signal received from IPDM E/R with CAN communication |
| AFS SW [On/Off] | NOTE: The item is indicated, but not monitored. |
| HI SEN OTP RR [V] | The height sensor signal voltage value input from the height sensor |
| LEV ACTR VLTG [%] | The ratio value to the battery voltage generated by the levelizer activation signal control value judged by AFS control unit |
| SWVL SEN RH [*] [°] | The head lamp swivel angle value judged by AFS control unit received from the swiv- |
| SWVL SEN LH [*] [°] | el position sensor signal input from the swivel actuator |
| SWVL ANGLE RH [*] [°] | The quivel angle command value to the quivel mater judged by AFC control wait |
| SWVL ANGLE LH * [°] | The swivel angle command value to the swivel motor judged by AFS control unit |

^{*:} The swivel angle "0°" (feedback value) of the swivel position sensor signal may differ from the swivel angle "0°" of the swivel motor (AFS control unit command value). This causes that the swivel motor initializes the value based on the step number from the stopper.

ACTIVE TEST

CAUTION:

Start the engine when using "ACTIVE TEST".

| Test item | Operation Item | Description |
|---------------------|---|--|
| | Origin Fast | Swivels the right headlamp to the swivel angle 0° in the normal speed. |
| | Peak Fast | Swivels the right headlamp to the swivel angle approximately 15° in the normal speed. |
| LOW BEAM TEST RIGHT | Origin Slow | Swivels the right headlamp to the swivel angle 0° in the speed at the initialization. |
| | Peak Slow | Swivels the right headlamp to the swivel angle approximately 15° in the speed at the initialization. |
| | Origin Fast Swivels the left headlamp to the swivel angle | |
| | Peak Fast | Swivels the left headlamp to the swivel angle approximately 17° in the normal speed. |
| LOW BEAM TEST LEFT | Origin Slow | Swivels the left headlamp to the swivel angle 0° in the speed at the initialization. |
| | Peak Slow | Swivels the left headlamp to the swivel angle approximately 17° in the speed at the initialization. |
| Origin | | Changes the aiming motor drive signal to approximately 70% of the battery voltage. Moves the headlamp upward and downward. |
| LLVLLIZLIN ILOI | Peak | Changes the aiming motor drive signal to approximately 15% of the battery voltage. Moves the headlamp upward and downward. |

NOTE:

[&]quot;Fast" operation speed is as three times fast as "Slow".

[XENON TYPE]

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DTC/CIRCUIT DIAGNOSIS

B2503, B2504 SWIVEL ACTUATOR

Description INFOID:0000000010576281

SWIVEL ACTUATOR

The swivel actuator is installed in the headlamp unit. The swivel actuator consists of the swivel motor and the swivel position sensor.

SWIVEL MOTOR

- The swivel motor is the two-phase step motor.
- The swivel motor drives headlamp by exciting the two drive coils according to the drive signal from AFS control unit.
- The rotation direction of the swivel motor is changeable by changing the exciting pattern.

SWIVEL POSITION SENSOR

The swivel position sensor detects the headlamp swivel angle to transmit the swivel position sensor signal to AFS control unit.

DTC Logic

DTC DETECTION LOGIC

- [B2503] Swivel actuator [RH]
- [B2504] Swivel actuator [LH]

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|--|------------------------|---|--------|
| DTC detection condition | DTC erase condition | Possible cause | |
| AFS control unit indicates an applicable DTC when detecting any of the following conditions continuously for 2 seconds or more. AFS control unit-recognized swivel position differs extremely from the swivel position sensor-input value while the swivel operating.* The swivel position sensor signal does not change even though AFS control unit transmits the swivel motor driving signal while the swivel operating*. The swivel motor short and open is detected while the swivel operating*. The swivel position sensor power supply is 6 V or more, or 4 V or less. The swivel position sensor signal is 0.25 V or less, or 4.75 V or more. | Ignition switch OFF | Swivel position sensor Swivel position sensor Harness and connector AFS control unit Swivel motor Swivel motor Harness and connector AFS control unit | J K |

^{*:} initialization is not included.

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

2. CONFIRMATION DTC SELECTION

Select "B2503" or "B2504" for confirmation.

Which DTC is confirmation?

B2503 >> GO TO 3.

B2504 >> GO TO 4.

3.DTC CONFIRMATION (B2503)

- 1. Steer to the straight-forward position.
- Start the engine.
- 3. Turn the headlamp ON.
- Shift the selector lever to "N".
- 5. Steer to the right. (Rotate it once or more.)
- 6. Perform the self-diagnosis with CONSULT.

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Revision: 2015 February EXL-45 2015 QX70

B2503, B2504 SWIVEL ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Is "B2503" detected?

YES >> Refer to EXL-46, "Diagnosis Procedure".

NO >> Refer to GI-47, "Intermittent Incident".

4.DTC CONFIRMATION (B2504)

- 1. Steer to the straight-forward position.
- 2. Start the engine.
- 3. Turn the headlamp ON.
- 4. Drive at 25 km/h (15.5 MPH) or more.
- 5. Steer to the left. (Rotate it once or more.)
- 6. Stop the vehicle.
- 7. Perform the self-diagnosis with CONSULT.

Is "B2504" detected?

YES >> Refer to EXL-46, "Diagnosis Procedure".

NO >> Refer to GI-47, "Intermittent Incident".

Diagnosis Procedure

INFOID:0000000010576283

1. CHECK SWIVEL POSITION SENSOR SIGNAL INPUT

- Turn the ignition switch ON.
- 2. Check the voltage between the AFS control unit harness connector and the ground.

| | Terminals | | | | |
|----|-------------|----------|--------|---------------|--|
| | (+) | | (-) | Voltage | |
| | AFS control | unit | Ground | (Approx.) | |
| C | Connector | Terminal | | | |
| RH | M16 | 9 | | 0.25 - 4.75 V | |
| LH | IVITO | 29 | | | |

Is the measurement value within the standard value?

YES >> GO TO 2.

Less than the standard value >>GO TO 6.

Higher than the standard value>>GO TO 9.

2. CHECK SWIVEL MOTOR

Check the swivel motor. Refer to EXL-49, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the front combination lamp.

3. CHECK SWIVEL MOTOR OPEN CIRCUIT

- Turn the ignition switch OFF.
- 2. Disconnect AFS control unit connector and the headlamp swivel actuator connector.
- Check continuity between the AFS control unit harness connector and the headlamp swivel actuator harness connector.

B2503, B2504 SWIVEL ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| | AFS control unit | | Headlamp swivel actuator | | Continuity | |
|------|------------------|----------|--------------------------|--------------------|------------|--|
| Co | onnector | Terminal | Connector | Connector Terminal | | |
| | | 11 | | 8 | | |
| RH | | 13 | E29 E59 | 7 | Existed | |
| IXII | | 32 | | 3 | | |
| | M16 | 34 | | 4 | | |
| | IVITO | 15 | | 3 | | |
| LH | | 17 | | 4 | | |
| LIT | | 36 | | 8 | | |
| | | 38 | | 7 | | |

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK SWIVEL MOTOR SHORT CIRCUIT

Check continuity between the AFS control unit harness connector and the ground.

| | AFS contro | l unit | | Continuity | |
|-----|------------|----------|--------|-------------|--|
| | Connector | Terminal | | Continuity | |
| | | 11 | | | |
| RH | | 13 | | Not existed | |
| КП | | 32 | Ground | | |
| | M16 | 34 | | | |
| | IVITO | 15 | | | |
| LH | | 17 | | | |
| LII | | 36 | | | |
| | | 38 | | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> GO TO 5.

5. CHECK SWIVEL MOTOR CIRCUIT VOLTAGE OUTPUT

- Connect AFS control unit connector.
- 2. Turn the ignition switch ON.
- 3. Turn the headlamp ON.
- 4. Select "LOW BEAM TEST RIGHT" or LOW BEAM TEST LEFT" of ADAPTIVE LIGHT active test item.
- 5. With operating the test item, check the voltage between the AFS control unit harness connector and the ground.

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| | | Terminals | | Condition | | |
|-----|-----------|-----------|--------|--------------|---------------------------------------|--|
| | (+) | | (-) | Condition | Voltage | |
| , | AFS contr | ol unit | | Swivel motor | (Approx.) | |
| Cor | nector | Terminal | | Swiverinotor | | |
| RH | | 11 | | | | |
| КΠ | | 32 | | | (V) 15 | |
| | | 15 | | | 10 | |
| LH | M16 | 36 | Ground | Active | 0 → 100µs SKIB2408J 8 - 12 V | |
| RH | | 13 | | | | |
| КΠ | | 34 | | Ston | 9.5 - 11.5 V | |
| LH | | 17 | | Stop | | |
| LN | | 38 | | | | |

Is the measurement value within the standard value?

YES >> Replace the front combination lamp.

NO >> Replace AFS control unit.

6.CHECK SWIVEL POSITION SENSOR SIGNAL OUTPUT

Check the voltage between the AFS control unit harness connector and the ground.

| | Terminals | | | |
|----|------------|----------|--------|----------------------|
| | (+) | | (-) | Voltage (Approx.) |
| | AFS contro | l unit | Ground | (Approx.) |
| | Connector | Terminal | | |
| RH | M16 | 4 | | 5 V |
| LH | IVITO | 24 | | |

Is the measurement value normal?

YES >> GO TO 7.

NO >> GO TO 9.

7.CHECK SWIVEL POSITION SENSOR POWER SUPPLY CIRCUIT INPUT VOLTAGE

- Turn the ignition switch OFF.
- 2. Disconnect the headlamp swivel actuator connector.
- 3. Turn the ignition switch ON.
- 4. Check the voltage between the headlamp swivel actuator harness connector and the ground.

| | | Terminals | | | |
|----|----------------|-------------|---------|-----------|--|
| | (+) (-) | | (-) | Voltage | |
| | Headlamp swive | el actuator | | (Approx.) | |
| | Connector | Terminal | Ground | | |
| RH | E29 | 2 | Giodila | 5 V | |
| LH | E59 | 2 | | 5 V | |

Is the measurement value normal?

YES >> GO TO 8.

NO >> Repair the harnesses or connectors.

8.CHECK SWIVEL POSITION SENSOR SIGNAL SHORT CIRCUIT

B2503, B2504 SWIVEL ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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- 1. Turn the ignition switch OFF.
- 2. Disconnect AFS control unit connector.
- Check continuity between the AFS control unit harness connector and the headlamp swivel actuator harness connector.

| Continuity | Headlamp swivel actuator | | AFS control unit | | |
|------------|--------------------------|-----------|------------------|---------|----|
| Continuity | Terminal | Connector | Terminal | nnector | Со |
| Existed | 1 | E29 | 9 | M16 | RH |
| LAISIEU | 1 | E59 | 29 | IVITO | LH |

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

9.check swivel position sensor ground circuit voltage output

Check the voltage between the AFS control unit harness connector and the ground.

| | Terminals | | | |
|----|------------|----------|--------|----------------------|
| | (+) | | (-) | Voltage (Approx.) |
| | AFS contro | l unit | Ground | |
| - | Connector | Terminal | | |
| RH | M16 | 2 | | |
| LH | IVITO | 27 | | |

Is the measurement value normal?

YES >> GO TO 10.

NO >> Replace AFS control unit.

10.check swivel position sensor short ground circuit

- Turn the ignition switch OFF.
- 2. Disconnect AFS control unit connector and the headlamp swivel actuator connector.
- Check continuity between the AFS control unit harness connector and the headlamp swivel actuator harness connector.

| Continuity | Headlamp swivel actuator | | AFS control unit | | |
|------------|--------------------------|-----------|------------------|----------|----|
| Continuity | Terminal | Connector | Terminal | onnector | Co |
| Existed | 6 | E29 | 2 | M16 | RH |
| LAISIEU | 6 | E59 | 27 | IVITO | LH |

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

Component Inspection

1. CHECK SWIVEL MOTOR SINGLE PART

- 1. Disconnect the swivel actuator connector.
- Check the resistance among each swivel actuator connector terminal.

| Swivel | actuator | Resistance |
|----------|----------|-----------------------|
| Terminal | Terminal | (Approx.) |
| 3 | 7 | 7.2 Ω |
| 4 | 8 | 7.2 Ω |
| 3 | 4 | 10 M Ω or more |
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INFOID:0000000010576284

B2503, B2504 SWIVEL ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Is the measurement value normal?

YES >> Swivel actuator is normal.

NO >> Replace the front combination lamp.

B2514 HEIGHT SENSOR UNUSUAL [RR]

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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B2514 HEIGHT SENSOR UNUSUAL [RR]

Description INFOID:0000000010576285

The height sensor is installed to the rear suspension arm. The height sensor detects the suspension arm displacement as the vehicle height change. The height sensor transmits the height sensor signal to AFS control unit.

NOTE:

The sensor angle of the unloaded vehicle position is the reference value.

DTC Logic INFOID:0000000010576286

DTC DETECTION LOGIC

[B2514] Height sensor unusual [RR]

| DTC detection condition | DTC erase condition | Possible cause |
|---|---------------------|---|
| An applicable DTC is indicated when any of the following conditions is detected continuously for 2 seconds or more. The height sensor power supply is 6 V or more, or 4 V or less. The height sensor signal is 0.25 V or less, or 4.75 V or more. | Ignition switch OFF | Height sensor • Height sensor • Harness and connector • AFS control unit |

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

2.DTC CONFIRMATION

- Start the engine.
- 2. Turn the headlamp ON.
- Select the self-diagnosis with CONSULT.
- Check the self-diagnosis result. Refer to EXL-207, "DTC Index".

Is "B2514" detected?

YES >> Refer to EXL-51, "Diagnosis Procedure".

>> Refer to GI-47, "Intermittent Incident". NO

Diagnosis Procedure

1.check height sensor power supply output

Turn the ignition switch ON.

Check the voltage between the AFS control unit harness connector and the ground.

| Terminals | | | |
|------------------|----------|--------|-----------|
| (+) (-) | | | Voltage |
| AFS control unit | | | (Approx.) |
| Connector | Terminal | Ground | |
| M16 | 6 | | 5 V |

Is the measurement value within the standard value?

YES >> GO TO 2.

NO >> Replace AFS control unit.

2.CHECK HEIGHT SENSOR POWER SUPPLY INPUT

Check the voltage between the AFS control unit harness connector and the ground.

EXL-51

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< DTC/CIRCUIT DIAGNOSIS >

| Terminals | | | |
|--------------------|----|---------|---------------|
| (+) (-) | | Voltage | |
| AFS control unit | | | (Approx.) |
| Connector Terminal | | Ground | |
| M16 | 28 | | 0.25 - 4.75 V |

Is the measurement value within the standard value?

YES >> Replace AFS control unit.

Less than the standard value >>GO TO 3.

Higher than the standard value>>GO TO 6.

$3.\mathrm{c}$ Leck height sensor power supply circuit output voltage

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

| Terminals | | | |
|---------------|----------|---------|-----------|
| (+) (-) | | Voltage | |
| Height sensor | | | (Approx.) |
| Connector | Terminal | Ground | |
| B32 | 1 | | 5 V |

Is the measurement value within the standard value?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK HEIGHT SENSOR SIGNAL OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- Disconnect AFS control unit connector.
- Check continuity between the AFS control unit harness connector and the height sensor harness connector.

| AFS control unit | | Height sensor | | Continuity |
|------------------|----------|---------------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M16 | 28 | B32 | 2 | Existed |

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

${f 5.}$ CHECK HEIGHT SENSOR SIGNAL SHORT CIRCUIT

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

| Height sensor | | | Continuity |
|---------------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity |
| B32 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace the height sensor.

$oldsymbol{6}$.CHECK HEIGHT SENSOR GROUND

Check the voltage between the AFS control unit harness connector and the ground.

B2514 HEIGHT SENSOR UNUSUAL [RR]

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

| Terminals | | | |
|------------------|----------|--------|-----------|
| (+) (-) | | | Voltage |
| AFS control unit | | | (Approx.) |
| Connector | Terminal | Ground | |
| M16 | 8 | | 0 V |

Is the measurement value within the standard value?

YES >> GO TO 7.

NO >> Replace AFS control unit.

7.CHECK HEIGHT SENSOR GROUND CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect AFS control unit connector and the height sensor connector.
- 3. Check continuity between the AFS control unit harness connector and the height sensor harness connector.

| AFS co | AFS control unit | | Height sensor | |
|-----------|------------------|-----------|---------------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M16 | 8 | B32 | 3 | Existed |

Does continuity exist?

YES >> Replace the height sensor.

NO >> Repair the harnesses or connectors.

Component Inspection

1. CHECK HEIGHT SENSOR

- 1. Remove the height sensor (the height sensor connector is connected).
- 2. Start the engine.
- 3. Turn the light switch 2ND.
- 4. Select "HI SEN OTP RR" of AFS data monitor item.
- 5. With moving the sensor lever, check the monitor status.

| Monitor item | Condition | | Monitor status [Standard value (Approx.)] |
|---------------|-----------------------|--|---|
| | | Contact with stopper | 0.9 V |
| HI SEN OTP RR | Sensor lever position | Moving be- tween two posi- tions | Smooth move- ment |
| | | 90° from stopper | 4.5 V |

Is the output value normal?

YES >> Height sensor is normal.

NO >> Replace the height sensor.

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[XENON TYPE]

INFOID:0000000010576291

B2516 SHIFT SIGNAL [P, R]

Description INFOID:000000010576288

AFS control unit receives the shift position signal from TCM with CAN communication.

DTC Logic

DTC DETECTION LOGIC

[B2516] Shift signal [P, R]

| DTC detection condition | DTC erase condition | Possible causes |
|--|---------------------|--------------------------|
| The shift position signal is not received. | Ignition switch OFF | TCM AFS control unit |

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

2.DTC CONFIRMATION

- 1. Turn the ignition ON.
- 2. Select the self-diagnosis with CONSULT.
- Check the self-diagnosis result. Refer to EXL-207, "DTC Index".

Is "B2516" detected?

YES >> Refer to <u>EXL-54</u>, "<u>Diagnosis Procedure</u>".

NO >> Refer to GI-47, "Intermittent Incident".

Diagnosis Procedure

1.TCM SELF-DIAGNOSIS

Check the self-diagnosis result with CONSULT. Check that TCM does not detect any DTCs.

Is any DTC detected?

YES >> Check TCM. Refer to TM-140, "Reference Value".

NO >> GO TO 2.

2.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

Is the memory erased?

YES >> Inspection end.

NO >> Replace AFS control unit.

B2517 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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B2517 VEHICLE SPEED SIGNAL

Description INFOID:0000000010576292

AFS control unit receives the vehicle speed signal from the unified meter and A/C amp. with CAN communication.

DTC Logic INFOID:0000000010576293

DTC DETECTION LOGIC

[B2517] Vehicle speed signal

| DTC detection condition | DTC erase condition | Possible causes |
|---|---------------------|---|
| The vehicle speed signal is not received. | Ignition switch OFF | Unified meter and A/C amp. AFS control unit |

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

2.DTC CONFIRMATION

- Turn the ignition ON.
- Select the self-diagnosis with CONSULT.
- Check the self-diagnosis result. Refer to EXL-207, "DTC Index".

Is "B2517" detected?

YES >> Refer to EXL-55, "Diagnosis Procedure".

>> Refer to GI-47, "Intermittent Incident". NO

Diagnosis Procedure

 ${f 1}$.UNIFIED METER AND A/C AMP. SELF-DIAGNOSIS

Check the self-diagnosis result with CONSULT. Check that the unified meter and A/C amp. does not detect any DTCs.

Is any DTC detected?

YES >> Check the unified meter and A/C amp. Refer to MWI-95, "DTC Index".

NO >> GO TO 2.

2.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

Is the memory erased?

YES >> Inspection end.

NO >> Replace AFS control unit. **EXL**

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INFOID:0000000010576294

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B2519 LEVELIZER CALIBRATION

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

B2519 LEVELIZER CALIBRATION

Description INFOID:000000010576295

AFS control unit transmits the height sensor signal from the height sensor.

DTC Logic

[B2519] Levelizer calibration

| DTC detection condition | DTC erase condition | Possible causes |
|--|--|------------------|
| The height sensor adjustment position is not recognized. | When the levelizer adjustment is completed | AFS control unit |

Diagnosis Procedure

INFOID:0000000010576297

1.LEVELIZER ADJUSTMENT

Perform the levelizer adjustment.

>> Refer to EXL-8, "LEVELIZER ADJUSTMENT : Description".

[XENON TYPE]

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B2521 ECU CIRCUIT

Description INFOID:0000000010576298

AFS control unit judges the vehicle condition from each signal. AFS control unit controls AFS function and the headlamp aiming.

DTC Logic INFOID:0000000010576299

DTC DETECTION LOGIC

[B2521] ECU circuit

| Error detection condition | DTC erase condition | Possible cause |
|--|---------------------|---|
| AFS control unit indicates an applicable DTC when detecting any of the following conditions continuously for 2 seconds or more. The swivel position sensor is shorted to the power supply or the ground. The swivel position sensor signal is shorted to the ground. The height sensor power supply is shorted to the power supply or the ground. The height sensor signal is shorted to the ground. AFS control unit RAM/ROM error | Ignition switch OFF | Swivel position sensor Swivel position sensor Harness and connector AFS control unit Height sensor Height sensor Harness and connector AFS control unit AFS control unit AFS control unit (RAM/ROM) AFS control unit |

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

$2. \mathtt{DTC}$ CONFIRMATION PROCEDURE

- Turn the ignition ON.
- Select the self-diagnosis with CONSULT. 2.
- Check the self-diagnosis result. Refer to EXL-207, "DTC Index".

Is "B2521" detected?

YES >> Refer to EXL-57, "Diagnosis Procedure".

>> Refer to GI-47, "Intermittent Incident".

Diagnosis Procedure

1. CHECK EACH SENSOR POWER SUPPLY

- Turn the ignition switch ON.
- Check the voltage between the AFS control unit harness connector and the ground.

| | Terminals | | |
|-----------|------------|--------|-----------|
| (| (+) | | Voltage |
| AFS co | ntrol unit | | (Approx.) |
| Connector | Terminal | | |
| | 4 | Ground | |
| M16 | 6 | | 5 V |
| | 24 | | |

Is the measurement value within the standard value?

>> GO TO 2.

Less than the standard value >>GO TO 3.

Higher than the standard value>>GO TO 4.

EXL-57 Revision: 2015 February 2015 QX70 **EXL**

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2.CHECK EACH SENSOR SIGNAL

Check the voltage between the AFS control unit harness connector and the ground.

| | Terminals | | |
|-----------|------------|--------|---------------|
| (| (+) (-) | | Voltage |
| AFS co | ntrol unit | | (Approx.) |
| Connector | Terminal | | |
| | 9 | Ground | |
| M16 | 28 | | 0.25 - 4.75 V |
| | 29 | | |

Is the measurement value within the standard value?

YES >> Replace AFS control unit.

Less than the standard value >>GO TO 5.

Higher than the standard value>>GO TO 6.

3.check each sensor power supply short circuit

- Turn the ignition switch OFF.
- Disconnect AFS control unit connector.
- 3. Check continuity between the AFS control unit harness connector and the ground.

| AFS co | ntrol unit | | Continuity |
|-----------|------------|--------|-------------|
| Connector | Terminal | | Continuity |
| | 4 | Ground | |
| M16 | 6 | | Not existed |
| | 24 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace AFS control unit.

4. CHECK EACH SENSOR POWER SUPPLY CIRCUIT

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

| Terminals | | | |
|-----------|------------|--------|-----------|
| (| (+) (-) | | Voltage |
| AFS co | ntrol unit | | (Approx.) |
| Connector | Terminal | | |
| | 4 | Ground | |
| M16 | 6 | | 0 V |
| | 24 | | |

Is the measurement value normal?

YES >> Replace AFS control unit.

NO >> Repair the harnesses or connectors.

5. CHECK EACH SENSOR SIGNAL SHORT CIRCUIT

- Turn the ignition switch OFF.
- Disconnect AFS control unit connector.
- Check continuity between the AFS control unit harness connector and the ground.

B2521 ECU CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| AFS co | ntrol unit | | Continuity |
|-----------|------------|--------|-------------|
| Connector | Terminal | | Continuity |
| | 9 | Ground | |
| M16 | 28 | | Not existed |
| | 29 | | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace AFS control unit.

6. CHECK EACH SENSOR SIGNAL SHORT CIRCUIT

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

| Terminals | | | |
|-----------|------------|--------|----------------------|
| (| (+) (-) | | Voltage (Approx.) |
| AFS co | ntrol unit | | (Approx.) |
| Connector | Terminal | | |
| | 9 | Ground | |
| M16 | 28 | | 0 V |
| | 29 | | |

Is the measurement value normal?

YES >> Replace AFS control unit.

NO >> Repair the harnesses or connectors.

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C0126 STEERING ANGLE SENSOR SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

C0126 STEERING ANGLE SENSOR SIGNAL

Description INFOID:000000010576301

AFS control unit receives the steering angle sensor signal from the steering angle sensor with CAN communication.

DTC Logic

DTC DETECTION LOGIC

[C0126] Steering angle sensor signal

| DTC detection condition | DTC erase condition | Possible causes |
|--|-------------------------|--|
| In any of the following conditions The steering angle sensor signal is not received. The steering angle sensor signal error is received. Out-of-standard signal (-900°- +900°) is received. | The ignition switch OFF | Steering angle sensor AFS control unit |

DTC CONFIRMATION PROCEDURE

1.DTC ERASE

Erase the DTC memory of AFS with CONSULT.

>> GO TO 2.

2.DTC CONFIRMATION

- Start the engine.
- Turn the steering wheel to the maximum right/left.
- Select the self-diagnosis with CONSULT.
- 4. Check the self-diagnosis result. Refer to EXL-207, "DTC Index".

Is "C0126" detected?

YES >> Refer to <u>EXL-60</u>, "<u>Diagnosis Procedure</u>". NO >> Refer to <u>GI-47</u>, "<u>Intermittent Incident</u>".

Diagnosis Procedure

INFOID:0000000010576303

$1.\mathsf{abs}$ actuator and electrical unit (control unit) self-diagnosis

Check the self-diagnosis result with CONSULT. Check that ABS actuator and electrical unit (control unit) does not detect any DTCs.

Is any DTC detected?

YES >> Check ABS actuator and electrical unit (control unit).Refer to BRC-120, "DTC Index".

NO >> GO TO 2.

2.DTC ERASE

Erase DTC memory of AFS with CONSULT.

Is the memory erased?

YES >> Inspection end.

NO >> Replace AFS control unit.

C0428 STEERING ANGLE SENSOR CALIBRATION

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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C0428 STEERING ANGLE SENSOR CALIBRATION

Description INFOID:000000010576304

AFS control unit receives the steering angle sensor signal from the steering angle sensor with CAN communication.

DTC Logic

[C0428] Steering angle sensor calibration

| DTC detection condition | DTC erase condition | Possible causes |
|---|---|-----------------------|
| The steering angle sensor neutral position is not recognized. | When the steering angle sensor neutral position registration is completed | Steering angle sensor |

Diagnosis Procedure

INFOID:0000000010576306

1. STEERING ANGLE SENSOR NEUTRAL POSITION ADJUSTMENT

Perform the steering angle sensor neutral position adjustment.

Perform the steering angle sensor neutral position adjustment on VDC side. VDC may activate incorrectly.

>> Refer to <u>BRC-9</u>, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : <u>Description"</u>.

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[XENON TYPE]

U1000 CAN COMM CIRCUIT

Description INFOID:000000010576307

CAN (Controller Area Network) is the serial transmission for real time application. CAN is the multiplex communication for the vehicle with superior data transmission speed and error detection ability. Many electronic control units are equipped on the vehicle. These control units do not operate individually, but associates with other control units by sharing information. In CAN communication, each control unit is connected with two communication lines (CAN-H and CAN-L). Much information is transmitted with fewer communication lines than before. Each control unit transmits/receives data and reads the necessary data only. CAN Communication Signal Chart. Refer to LAN-35, "CAN Communication Signal Chart".

DTC Logic

DTC DETECTION LOGIC

[U1000] CAN communication circuit

| DTC detection condition | DTC erase condition | Possible causes |
|---|---------------------|--------------------------|
| When AFS control unit does not transmit/receive CAN communication signal continuously for 2 seconds or more | Ignition switch OFF | CAN communication system |

Diagnosis Procedure

INFOID:0000000010576309

1.PERFORM SELF DIAGNOSTIC

- 1. Turn the ignition switch ON and wait for 2 seconds or more.
- Select the self-diagnosis with CONSULT.
- Check the self-diagnosis result.

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-25, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-47, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC [U1000] CAN communication circuit

| DTC | CONSULT display description | DTC detection condition | Possible causes |
|-------|-----------------------------|---|------------------|
| U1010 | CONTROL UNIT (CAN) | AFS control unit detected internal CAN communication circuit malfunction. | AFS control unit |

Diagnosis Procedure

INFOID:0000000010576311

1. REPLACE AFS CONTROL UNIT

When DTC [U1010] is detected, replace AFS control unit.

>> Replace AFS control unit.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000011009265

1. CHECK FUSE AND FUSIBLE LINK

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

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

Is the fuse fusing?

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

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

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

| (+) (-) | | | Voltage |
|-----------|----------|--------|-----------------|
| В | СМ | | (Approx.) |
| Connector | Terminal | Ground | |
| M118 | 1 | Giouna | Battery voltage |
| M119 | 11 | | Ballery Vollage |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

| ВСМ | | | Continuity | |
|--------------------|----|--------|------------|--|
| Connector Terminal | | Ground | Continuity | |
| M119 | 13 | | Existed | |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

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

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

1. CHECK FUSES AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| Signal name | Fuses and fusible link No. |
|----------------------|----------------------------|
| Battery power supply | D |
| | 50 |
| | 51 |

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

- Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.
- 3. Check voltage between IPDM E/R harness connector and ground.

| Terminals | | | |
|-----------|----------|--------|-----------------|
| (| (+) | | Voltage |
| IPDM E/R | | (-) | (Approx.) |
| Connector | Terminal | Ground | |
| E4 | 1 | Ground | Battery voltage |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

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

| IPDM E | IPDM E/R | | Continuity |
|-----------|----------|----------------|------------|
| Connector | Terminal | Cround | Continuity |
| E5 | 12 | Ground Existed | Existed |
| E6 | 41 | | LXISted |

Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

AFS CONTROL UNIT

AFS CONTROL UNIT: Diagnosis Procedure

1. FUSE INSPECTION

Check that the following fuses are not fusing.

| Signal name | Connection position | Fuse No. | Capacity |
|-----------------------|---------------------|----------|----------|
| Ignition power supply | FUSE BLOCK (J/B) | 3 | 10 A |

Is the fuse fusing?

YES >> Repair the applicable circuit. And then replace the fuse.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- Turn the ignition switch OFF.
- Disconnect AFS control unit harness connector.
- 3. Turn the ignition switch ON.
- 4. Check voltage between the AFS control unit harness connector and the ground.

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Revision: 2015 February EXL-65 2015 QX70

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

| (+) (–) | | | Voltage |
|-----------|------------|--------|-----------------|
| AFS co | ntrol unit | | (Approx.) |
| Connector | Terminal | Ground | |
| M16 | 1 | | Battery voltage |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair the harness or connector.

3. CHECK GROUND CIRCUIT

1. Turn the ignition switch OFF.

2. Check continuity between the AFS control unit harness connectors and the ground.

| AFS co | ntrol unit | | Continuity |
|--------------------|------------|--------|------------|
| Connector Terminal | | Ground | Continuity |
| M16 | 25 | | Existed |

Does continuity exist?

YES >> Repair the harness or connector.

NO >> Power supply and ground circuit are normal.

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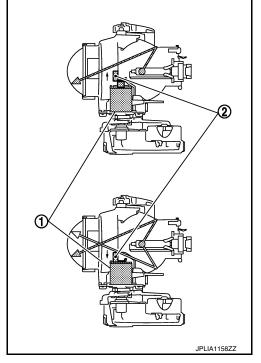
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HEADLAMP (HI) CIRCUIT

Description INFOID:0000000010576317

The high beam solenoid drives the mobile valve shade. And the mobile valve shade switches the high beam and low beam of headlamp.

- · When the headlamp high relay is turned ON, magnetic force is applied to the high beam solenoid (1) by a current. The mobile valve shade (2) is switched to the high beam position.
- When the headlamp high relay is turned OFF, the current stops. The mobile valve shade returns to the low beam position automatically.



Component Function Check

1. CHECK HEADLAMP (HI) OPERATION

RIPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".

Check that the headlamp switches to the high beam.

(P)CONSULT ACTIVE TEST

Select "EXTERNAL LAMPS" of IPDM E/R active test item.

With operating the test items, check that the headlamp switches to the high beam.

Ηi : Headlamp switches to the high beam.

Off : Headlamp OFF

HI/LO is repeated 1 second each when using the IPDM E/R auto active test.

Does the headlamp switch to the high beam?

YES >> Headlamp (HI) circuit is normal.

>> Refer to EXL-67, "Diagnosis Procedure". NO

Diagnosis Procedure

1. CHECK HEADLAMP (HI) OUTPUT VOLTAGE

(P)CONSULT ACTIVE TEST

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

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| Terminals | | | Test item | | | | |
|-----------|---------|----------|------------|-----------|--------------------|-----|--------------------|
| (+) | | (-) | iest itemi | Voltage | | | |
| IPDM E/R | | | EXTERNAL | (Approx.) | | | |
| Cor | nnector | Terminal | | LAMPS | | | |
| RH | | | | 89 Ground | Ground | Hi | Battery voltage |
| | E8 | | | | Off | 0 V | |
| LH | Lo | | | 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 IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

| Continuity | Front combination lamp | | IPDM E/R | | |
|------------|------------------------|-----------|----------|--------|-----|
| Continuity | Terminal | Connector | Terminal | nector | Con |
| Existed | 1 | E28 | 89 | E8 | RH |
| Existed | 1 | E58 | 90 | LO | LH |

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 | #55 | 10 A |
| Headlamp HI (LH) | IPDM E/R | #54 | 10 A |

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK FRONT COMBINATION LAMP (HI) SHORT CIRCUIT

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

| IPDM E/R | | | | Continuity |
|----------------|------|----------|--------|-------------|
| Connector Terr | | Terminal | Ground | Continuity |
| RH | - E8 | 89 | Ground | Not existed |
| LH | | 90 | | NOI EXISIEU |

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.)

HEADLAMP (HI) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

$5.\mathsf{CHECK}$ HEADLAMP (HI) GROUND OPEN CIRCUIT

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

| Front combination lamp | | | | Continuity |
|------------------------|-----|----------|---------|------------|
| Connector | | Terminal | Ground | Continuity |
| RH | E28 | 3 | Giodila | Existed |
| LH | E58 | 3 | | Existed |

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

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[XENON TYPE]

HEADLAMP (LO) CIRCUIT

Description INFOID.000000010576320

Headlamp (LO) circuit is connected to HID control unit integrated in the headlamp. Headlamp (LO) circuit turns xenon headlamp ON.

For the details of HID control unit and the xenon headlamp, refer to EXL-72, "Description".

Component Function Check

INFOID:0000000010576321

1. CHECK HEADLAMP (LO) OPERATION

PIPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
- Check that the headlamp is turned ON.
- (P)CONSULT ACTIVE TEST
- 1. Select "EXTERNAL LAMPS" of IPDM E/R active test item.
- With operating the test items, check that the headlamp is turned ON.

Low: Headlamp ON
Off: Headlamp OFF

Is the headlamp turned ON?

YES >> Headlamp (LO) is normal.

NO >> Refer to EXL-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010576322

1.CHECK HEADLAMP (LO) OUTPUT VOLTAGE

(P)CONSULT ACTIVE TEST

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

| Terminals | | | | Test item | | |
|--------------------|----|----|--------|----------------|----------------------|--|
| (+) | | | (-) | TOST ITCH | Voltage (Approx.) | |
| IPDM E/R | | | | EXTERNAL LAMPS | | |
| Connector Terminal | | | | | | |
| RH | | 83 | Ground | Low | Battery voltage | |
| | E8 | | | Off | 0 V | |
| LH | LO | 84 | | Low | Battery voltage | |
| | | | | Off | 0 V | |

Is the measurement value normal?

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

$2.\mathsf{CHECK}$ HEADLAMP (LO) OPEN CIRCUIT

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

HEADLAMP (LO) CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| IPDM E/R | | | Headla | Continuity | | |
|-----------|----|----------|-----------|------------|------------|--|
| Connector | | Terminal | Connector | Terminal | Continuity | |
| RH | E8 | 83 | E25 | 1 | Existed | |
| LH | □0 | 84 | E55 | 1 | LAISIGU | |

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 | Lotion | Fuse No. | Capacity |
|------------------|----------|----------|----------|
| Headlamp LO (RH) | IPDM E/R | #57 | 15 A |
| Headlamp LO (LH) | IPDM E/R | #56 | 15 A |

Is the fuse fusing?

YES >> GO TO 4.

NO >> Replace IPDM E/R.

4. CHECK HEADLAMP (LO) SHORT CIRCUIT

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

| IPDM E/R | | | | Continuity |
|-------------------|----|----------|--------|-------------|
| Connector Termina | | Terminal | Ground | Continuity |
| RH | E8 | 83 | Ground | Not existed |
| LH | E0 | 84 | | Not existed |

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.

| | Headlan | np | | Continuity |
|-----|---------|----------|--------|------------|
| Con | nector | Terminal | Ground | Continuity |
| RH | E25 | 2 | Ground | Existed |
| LH | E55 | 2 | | LAISIEU |

Does continuity exist?

YES >> Perform the xenon headlamp diagnosis. Refer to EXL-72, "Description".

NO >> Repair the harnesses or connectors.

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XENON HEADLAMP

Description INFOID:000000010576323

OUTLINE

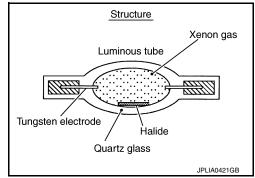
- The lamp light source is by the arch discharge by applying high voltage into the xenon gas-filled bulb instead
 of the halogen bulb filament.
- Sight becomes more natural and brighter because the amount of light are gained adequately and the color of light is sunshine-like white.
- The xenon bulb drops the amount of light, repeats blinking, and illuminates in red if the bulb reaches the service life.

ILLUMINATION PRINCIPLE

- Discharging starts in high voltage pulse between bulb electrodes.
- 2. Xenon gas is activated by current between electrodes. Pale light is emitted.
- The luminous tube (bulb) temperature elevates. Evaporated halide is activated by discharge. The color of light changes into white.

NOTE:

- Brightness and the color of light may change slightly immediately after the headlamp turned ON until the xenon bulb becomes stable. This is not malfunction.
- Illumination time lag may occur between right and left. This is not malfunction.



PRECAUTIONS FOR TROUBLE DIAGNOSIS

Representative malfunction examples are, "Light does not turn ON", "Light blinks", and "Brightness is inadequate." The cause often be the xenon bulb. Such malfunctions, however, are occurred occasionally by HID control unit malfunction or lamp case malfunction. Specify the malfunctioning part with diagnosis procedure.

WARNING.

- Never touch the harness, HID control unit, the inside and metal part of lamp when turning the headlamp ON or operating the light switch.
- · Never work with wet hands.

CAUTION:

- Never perform HID control unit circuit diagnosis with a circuit tester or an equivalent.
- Temporarily install the headlamp on the vehicle. Connect the battery to the connector (vehicle side) when checking ON/OFF status.
- Disconnect the battery negative terminal before disconnecting the lamp socket connector or the harness connector.
- Check for fusing of the fusible link(s), open around connector, short, disconnection if the symptom is caused by electric error.

NOTE:

- Turn the switch OFF once before turning ON, if the ON/OFF is inoperative.
- The xenon bulb drops the amount of light, repeats blinking, and illuminates in red if the bulb reaches the service life.

Diagnosis Procedure

INFOID:0000000010576324

1. CHECK XENON BULB

Install the normal bulb to the applicable headlamp. Check that the xenon bulb is turned ON.

Is the headlamp turned ON?

YES >> Replace the xenon bulb.

NO >> GO TO 2.

2.CHECK HID CONTROL UNIT

Install the normal HID control unit to the applicable headlamp. Check that the lamp is turned ON.

Is the headlamp turned ON?

XENON HEADLAMP

< DTC/CIRCUIT DIAGNOSIS > YES >> Replace HID control unit.

[XENON TYPE]

NO >> GO TO 3.

3. CHECK XENON HEADLAMP HOUSING ASSEMBLY

Install the normal xenon headlamp housing assembly to the applicable headlamp. Check that the xenon headlamp is turned ON.

Is the headlamp turned ON?

YES >> Replace the front combination lamp. (Xenon headlamp housing voltage converter malfunctions.)

NO >> Xenon headlamp is normal. Check the headlamp control system.

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[XENON TYPE]

HEADLAMP LEVELIZER CIRCUIT

Description INFOID:000000010576325

The headlamp levelizer adjusts the headlamp light axis upward and downward with the aiming motor integrated in the front combination lamp.

Component Function Check

INFOID:0000000010576326

1. CHECK AIMING MOTOR OPERATION

(P)CONSULT ACTIVE TEST

- 1. Start the engine.
- 2. Turn the lighting switch 2ND.
- 3. Select "LEVELIZER TEST" of ADAPTIVE LIGHT active test item.
- 4. With operating the test item, check the operation.

| Test item | Litabilita da asala | 10 m (32.8 ft)-forward |
|----------------|---------------------------------------|--|
| LEVELIZER TEST | Light axis angle (Reference value) | light axis change reference quantity (Approx.) |
| Origin | 0° | _ |
| Peak | 2.5° | 450 mm (17.9 in) |

Is the operation normal?

YES >> Headlamp levelizer circuit is normal.

NO >> Refer to <u>EXL-74</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010576327

1. CHECK AIMING MOTOR DRIVE SIGNAL OUTPUT

©CONSULT ACTIVE TEST

- 1. Start the engine.
- Turn the light switch 2ND.
- 3. Select "LEVELIZER TEST" of ADAPTIVE LIGHT active test item.
- 4. With operating the test item, check the voltage between the AFS control unit harness connector and the ground.

| | | Terminals | | Test item | |
|------|--------|-----------|--------|----------------|-----------|
| | (+ |) | (-) | rest item | Voltage |
| Α | FS con | trol unit | | LEVELIZER TEST | (Approx.) |
| Con | nector | Terminal | | LEVELIZER 1E31 | |
| RH | | 19 | Ground | Origin | 8.8 V |
| IXII | M16 | | Oround | Peak | 1.9 V |
| LH | IVITO | 40 | | Origin | 8.8 V |
| LII | 40 | | Peak | 1.9 V | |

Is the measurement value normal?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK AIMING MOTOR DRIVE SIGNAL CIRCUIT INPUT

- Turn the ignition switch OFF.
- Disconnect AFS control unit connector and aiming motor connector.
- Check continuity between the AFS control unit harness connector and the aiming motor harness connector.

HEADLAMP LEVELIZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

| Continuity | Aiming motor | | l unit | AFS contro | |
|------------|--------------|-----------|----------|------------|----|
| Continuity | Terminal | Connector | Terminal | nnector | Со |
| Existed | 2 | E26 | 19 | M16 | RH |
| LAISIEU | 2 | E56 | 40 | IVITO | LH |

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses and connectors.

${f 3.}$ CHECK AIMING MOTOR DRIVE SIGNAL SHORT CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect AFS control unit connector and aiming motor connector.
- 3. Check continuity between the AFS control unit harness connector and the ground.

| | AFS contro | ol unit | | Continuity |
|-----|------------|----------|--------|--------------|
| Con | nector | Terminal | Ground | Continuity |
| RH | M16 | 19 | Ground | Not existed |
| LH | IVITO | 40 | | inot existed |

Does continuity exist?

YES >> Repair the harness and connectors.

NO >> Replace AFS control unit.

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[XENON TYPE]

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FRONT FOG LAMP CIRCUIT

Component Function Check

1. CHECK FRONT FOG LAMP OPERATION

RIPDM E/R AUTO ACTIVE TEST

1. Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".

Check that the front fog lamp is turned ON.

PCONSULT 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-76, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK FRONT FOG LAMP FUSE

Turn the ignition switch OFF.

2. Check that the following fuses are not fusing.

| Unit | Location | Fuse No. | Capacity |
|----------------|----------|----------|-----------|
| Front fog lamp | IPDM E/R | #58 | 10 A/15A* |

*: TYPE 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 lamp connector.
- 2. Check continuity between the IPDM E/R harness connector and the ground.

| IPDM E/R | | | Continuity | |
|----------|--------|----------|------------|-------------|
| Conr | nector | Terminal | Ground | Continuity |
| RH | E8 | 86 | Ground | Not existed |
| LH | Ε0 | 87 | | Not existed |

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

(P)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 >

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

| | Terminals | | | | |
|----------|-----------|----------|-----------|--------------------|--------------------|
| (+) | | (-) | Test item | Voltage | |
| IPDM E/R | | | EXTERNAL | (Approx.) | |
| Cor | nector | Terminal | | LAMPS | |
| RH | 86 | Ground | Fog | Battery voltage | |
| | E8 | | Off | 0 V | |
| LH | | 87 | | Fog | 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.
- 2. Disconnect IPDM E/R connector.
- 3. Check continuity between the IPDM E/R harness connector and the front fog lamp harness connector.

| Continuity | Front fog lamp | | /R | IPDM E | |
|------------|----------------|-----------|----------|--------|------|
| Continuity | Terminal | Connector | Terminal | nector | Conr |
| Existed | 1 | E34 | 86 | E8 | RH |
| LXISIEU | 1 | E64 | 87 | LO | LH |

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

$\mathsf{6}.$ CHECK FRONT FOG LAMP GROUND CIRCUIT OPEN CIRCUIT

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

| Front fog lamp | | | Continuity | |
|----------------|--------|----------|------------|------------|
| Conr | nector | Terminal | Ground | Continuity |
| RH | E34 | 2 | Ground | Existed |
| LH | E64 | 2 | | Existed |

Does continuity exist?

YES >> Replace the front fog lamp.

NO >> Repair the harnesses or connectors.

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[XENON TYPE]

PARKING LAMP CIRCUIT

Component Function Check

INFOID:0000000010576330

1. CHECK PARKING LAMP OPERATION

PIPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
- 2. Check that the parking lamp is turned ON.

PCONSULT 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-78, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010576331

1. CHECK PARKING LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|--------------|----------|----------|----------|
| Parking lamp | IPDM E/R | #52 | 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 front combination lamp connector.
- 2. Check continuity between the IPDM E/R harness connector and the ground.

TYPE A

| IPDM E/R | | | Continuity | |
|----------|--------|----------|------------|--------------|
| Conr | nector | Terminal | Ground | Continuity |
| RH | E9 | 91 | Ground | Not existed |
| LH | E9 | 92 | | INOL EXISTED |

TYPE B

| IF | PDM E/R | | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity |
| E9 | 91 | | Not existed |

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.

PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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4. CHECK PARKING LAMP OUTPUT VOLTAGE

®CONSULT ACTIVE TEST

- 1. Disconnect the front 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.

TYPE A

| | Terminals | | | | | |
|-----|--------------------|----|--------|-----------|--------------------|--|
| | (+) | | | Test item | Voltage | |
| | IPDM E | /R | | EXTERNAL | (Approx.) | |
| Cor | Connector Terminal | | | LAMPS | | |
| RH | E9 | 91 | Ground | TAIL | Battery voltage | |
| | | | | Off | 0 V | |
| | | 92 | | TAIL | Battery voltage | |
| | | | | Off | 0 V | |

TYPE B

| | Terminals | Test item | | |
|-----------|-----------|-----------|------------|----------------------|
| | (+) | (-) | iest itemi | Voltage (Approx.) |
| IPI | DM E/R | | EXTERNAL | |
| Connector | Terminal | | LAMPS | |
| E9 | 91 | Ground | TAIL | Battery voltage |
| | | | Off | 0 V |

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.
- Check continuity between the IPDM E/R harness connector and the front combination lamp harness connector.

TYPE A

| IPDM E/R | | Front combin | Continuity | | | |
|-----------------|----|--------------|--------------------|---|------------|--|
| Connector Termi | | Terminal | Connector Terminal | | Continuity | |
| RH | E9 | 91 | E28 | 4 | Existed | |
| LH | Lg | 92 | E58 | 4 | LAISIEU | |

TYPE B

| IPDM E/R | | | /R | Front combin | Continuity | | |
|----------|------|---------------|----|--------------------|------------|------------|--|
| | Conr | Connector Ter | | Connector Terminal | | Continuity | |
| | RH | E9 | 91 | E28 | 4 | Existed | |
| | LH | Lo | 31 | E58 | 4 | LAISICU | |

Does continuity exist?

YES >> GO TO 6.

NO >> Repair the harnesses or connectors.

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PARKING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

$6.\mathsf{CHECK}$ PARKING LAMP GROUND OPEN CIRCUIT

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

| Fro | nt combinat | ion lamp | | Continuity |
|-----------|-------------|----------|--------|------------|
| Connector | | Terminal | Ground | Continuity |
| RH | E28 | 3 | Ground | Existed |
| LH | E58 | 3 | | Existed |

Does continuity exist?

YES >> Replace the front combination lamp.

NO >> Repair the harnesses or connectors.

TURN SIGNAL LAMP CIRCUIT [XENON TYPE] < DTC/CIRCUIT DIAGNOSIS > TURN SIGNAL LAMP CIRCUIT Α Description INFOID:0000000010576332 BCM performs the high flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is NOTE: Turn signal lamp blinks at normal speed when using the hazard warning lamp. Component Function Check INFOID:0000000010576333 1. CHECK TURN SIGNAL LAMP D **PCONSULT ACTIVE TEST** Select "FLASHER" of BCM (FLASHER) active test item. With operating the test items, check that the turn signal lamp blinks. Е LH : Turn signal lamp LH blinking RH : Turn signal lamp RH blinking Off : The turn signal lamp OFF Does the turn signal lamp blink? YES >> Turn signal lamp circuit is normal. >> Refer to EXL-81, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:0000000010576334 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 OUTPUT VOLTAGE **PCONSULT ACTIVE TEST** K Turn the ignition switch OFF. Disconnect the front combination lamp connector or the rear combination lamp connector. Turn the ignition switch ON. EXL Select "FLASHER" of BCM (FLASHER) active test item. With operating the turn signal switch, check the voltage between the BCM harness connector and the ground. M

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| Front | | | | | | |
|-----------|-------|----------|--------|-----------|----------------------------------|--|
| Terminals | | | | Test item | | |
| | (+) | | (-) | iest item | Voltage (Amprey) | |
| | ВСМ | | | FLACUED | Voltage (Approx.) | |
| Conn | ector | Terminal | | FLASHER | | |
| RH | | 17 | Ground | RH | (V) 15 10 5 0 1 s | |
| | M119 | | Giound | Off | 0 V | |
| LH | WILLS | 18 | | LH | (V) 15 10 5 0 1 s | |
| | | | | Off | 0 V | |
| Rear | | | | | | |

| Terminals | | | | Test item | | |
|-----------|--------|----------|---------|-----------|----------------------------------|--|
| (+) | | | (-) | rest item | Voltage (Approx.) | |
| | BCM | | | FLASHER | voltage (Approx.) | |
| Conne | ector | Terminal | | TEAGILIE | | |
| RH | | 20 | Ground | RH | (V) 15 10 5 0 1 s | |
| | - M120 | | Giouria | Off | 0 V | |
| LH | | 25 | | LH | (V) 15 10 5 0 1 s | |
| | | | | Off | 0 V | |

Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace BCM.

$3. \mathsf{CHECK} \ \mathsf{TURN} \ \mathsf{SIGNAL} \ \mathsf{LAMP} \ \mathsf{OPEN} \ \mathsf{CIRCUIT}$

- 1. Turn the ignition switch OFF.
- 2. Disconnect BCM connector.
- 3. Check the continuity between the BCM harness connector and the front combination lamp or the rear combination lamp harness connector.

TURN SIGNAL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| ВСМ | | | Front comb | Continuity | |
|------|-----------|----|------------|------------|------------|
| Conr | Connector | | Connector | Terminal | Continuity |
| RH | M119 | 17 | E28 | 2 | Existed |
| LH | IVITIO | 18 | E58 | 2 | LAISIEU |

Rear turn signal lamp

| ВСМ | | Rear comb | Continuity | | |
|------|-----------|-----------|------------|----------|------------|
| Conr | Connector | | Connector | Terminal | Continuity |
| RH | M120 | 20 | B232 | 3 | Existed |
| LH | WIZO | 25 | B60 | 3 | LAISIEU |

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

Check continuity between the BCM harness connector and the ground.

Front

| | BCM | | | Continuity | |
|-----------|--------|----------|--------|--------------|--|
| Connector | | Terminal | Ground | Continuity | |
| RH | M119 | 17 | Glound | Not existed | |
| LH | IVITIS | 18 | | inot existed | |

Rear

| ВСМ | | | | Continuity | |
|-----------|---------|----------|--------|--------------|--|
| Connector | | Terminal | Ground | Continuity | |
| RH | M120 | 20 | Glound | Not existed | |
| LH | IVI 120 | 25 | | inot existed | |

Does continuity exist?

YES >> Repair the harnesses or connectors.

>> GO TO 5. NO

CHECK TURN SIGNAL LAMP GROUND OPEN CIRCUIT

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

Front turn signal lamp

| Front combination lamp | | | | Continuity |
|------------------------|-----------------|---|--------|------------|
| Cor | Connector Termi | | Ground | Continuity |
| RH | E28 | 3 | Glound | Existed |
| LH | E58 | 3 | | Existed |

Rear turn signal lamp

| Rear combination lamp | | | | Continuity |
|-----------------------|--------|----------|--------|------------|
| Con | nector | Terminal | Ground | Continuity |
| RH | B232 | 4 | Glound | Evistad |
| LH | B60 | 4 | | Existed |

Does continuity exist?

YES >> Replace the front combination lamp or the rear combination lamp.

NO >> Repair the harnesses or connectors. **EXL**

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[XENON TYPE]

OPTICAL SENSOR

Description INFOID.000000010576335

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

Component Function Check

INFOID:0000000010576336

1. CHECK OPTICAL SENSOR SIGNAL BY CONSULT

(P)CONSULT DATA MONITOR

- 1. Turn the ignition switch ON.
- Select "OPTICAL SENSOR" 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.) |
|-------------------------------|-------------------------|---------------------------------|-------------------|
| OPTICAL SENSOR Optical sensor | Ontical 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-84, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010576337

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.

| (| Voltage | | |
|--------------------|----------|--------|-----------|
| Optica | l sensor | | (Approx.) |
| Connector Terminal | | Ground | |
| M94 | 1 | | 5 V |

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.

| (| Voltage | | |
|--------------------|---------|--------|-----------|
| Optica | sensor | | (Approx.) |
| Connector Terminal | | Ground | |
| M94 | 3 | | 0 V |

Is the measurement value normal?

YES >> GO TO 3.

NO >> GO TO 6.

3. CHECK OPTICAL SENSOR SIGNAL OUTPUT

[XENON TYPE]

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

| Terminals | | | Condition | |
|----------------|----------|------------------------|------------------------------|---------------|
| (+) | | (-) | Condition | Voltage |
| Optical sensor | | | Optical sen- | (Approx.) |
| Connector | Terminal | | sor | |
| MO4 2 | Ground | When illumi- nating | 3.1 V or more * | |
| M94 2 | | | When shut- ting 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

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

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M94 | 1 | M123 | 138 | Existed |

Does continuity exist?

YES >> GO TO 5.

NO >> Repair the harnesses or connectors.

${f 5}$.CHECK OPTICAL SENSOR SHORT CIRCUIT

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

| Optica | l sensor | | Continuity |
|-----------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity |
| M94 | 1 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

$oldsymbol{6}.$ CHECK OPTICAL SENSOR GROUND OPEN CIRCUIT

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

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M94 | 3 | M123 | 137 | Existed |

Does continuity exist?

YES >> Replace BCM.

NO >> Repair the harnesses or connectors.

7.CHECK OPTICAL SENSOR SIGNAL OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the optical sensor connector and the BCM connector.

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EXL-85 Revision: 2015 February 2015 QX70

OPTICAL SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

3. Check continuity between the optical sensor harness connector and the BCM harness connector.

| Optical sensor | | BCM | | Continuity |
|----------------|----------|-----------|----------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| M94 | 2 | M123 | 113 | 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 | | | Continuity |
|----------------|----------|--------|-------------|
| Connector | Terminal | Ground | Continuity |
| M94 | 2 | | Not existed |

Does continuity exist?

YES >> Repair the harnesses or connectors.

NO >> Replace BCM.

[XENON TYPE]

INFOID:0000000010576339

INFOID:0000000010576340

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HAZARD SWITCH

Description INFOID:0000000010576338

Hazard switch is integrated in the multifunction switch. Hazard switch inputs the signals to BCM when pressing the switch.

Component Function Check

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 | Hazard switch | While pressing the switch | On |
| | While not pressing the switch | Off | |

Is the item status normal?

YES >> Hazard switch circuit is normal.

NO >> Refer to EXL-87, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK HAZARD SWITCH SIGNAL INPUT

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

| | Terminals | | Condition | Voltage (Approx.) | | | | | | |
|-----------|-----------|--------|-------------------------------|---|--|--|--|--|--|--|
| (- | +) | (-) | Condition | | | | | | | |
| ВС | CM | | Hazard switch | Voltage (Approx.) | | | | | | |
| Connector | Terminal | | Hazaru Switch | | | | | | | |
| | | | While pressing the switch | 0 V | | | | | | |
| M122 | 110 | Ground | While not pressing the switch | (V) 15 10 5 0 10 ms JPMIA0012GB | | | | | | |

Is the measurement value normal?

YES >> Replace BCM.

NO >> GO TO 2.

2.CHECK HAZARD SWITCH SIGNAL OPEN CIRCUIT

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

| Multifunc | tion switch | В | Continuity | | | | | |
|-----------|-------------|-----------|------------|------------|--|--|--|--|
| Connector | Terminal | Connector | Terminal | Continuity | | | | |
| M72 | 16 | M122 | 110 | Existed | | | | |

Does continuity exist?

HAZARD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

YES >> GO TO 3.

NO >> Repair the harnesses or connectors.

3. CHECK HAZARD SWITCH SIGNAL SHORT CIRCUIT

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

| Multifunct | tion switch | | Continuity |
|------------|-------------|--------|-------------|
| Connector | Terminal | Ground | Continuity |
| M72 | 16 | | 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 multifunction switch harness connector and the ground.

| Multifunc | tion switch | | Continuity |
|-----------|-------------|--------|------------|
| Connector | Terminal | Ground | Continuity |
| M72 | 1 | | Existed |

Does continuity exist?

YES >> Replace the hazard switch (multifunction switch).

NO >> Repair the harnesses or connectors.

[XENON TYPE]

TAIL LAMP CIRCUIT

Component Function Check

INFOID:0000000010576341

${f 1}$.CHECK TAIL LAMP OPERATION

■IPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
- 2. Check that the tail lamp is turned ON.

(P)CONSULT ACTIVE TEST

- 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

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Is the tail lamp turned ON?

YES >> Tail lamp circuit is normal.

>> Refer to EXL-89, "Diagnosis Procedure". NO

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Diagnosis Procedure

INFOID:0000000010576342

1. CHECK TAIL LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|--|----------|----------|----------|
| Tail lamp Rear side marker lamp License plate lamp | IPDM E/R | #53 | 10 A |

Is the fuse fusing?

YES >> Repair the malfunctioning part before replacing the fuse.

NO >> GO TO 2.

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2.CHECK TAIL LAMP OUTPUT VOLTAGE

©CONSULT ACTIVE TEST

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

| | Terminals | | Test item | | | | | |
|-----------|-----------|--------|-----------|--------------------|--|--|--|--|
| (- | +) | (-) | rest item | Voltage | | | | |
| IPDN | 1 E/R | | EXTERNAL | (Approx.) | | | | |
| Connector | Terminal | | LAMPS | | | | | |
| E5 | 7 | Ground | TAIL | Battery voltage | | | | |
| | | | Off | 0 V | | | | |

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Is the measurement value normal?

YES >> GO TO 3.

NO >> Replace IPDM E/R.

3.CHECK TAIL LAMP OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector.

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TAIL LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

3. Check continuity between the IPDM E/R harness connector and the rear combination lamp harness connector.

| | IPDM E | /R | Rear comb | Continuity | |
|----|-----------|----------|-----------|------------|------------|
| C | Connector | Terminal | Connector | Terminal | Continuity |
| RH | E5 | 7 | B232 | 1 | Existed |
| LH | E3 | , | B60 | 1 | Existed |

Does continuity exist?

YES >> GO TO 4.

NO >> Repair the harnesses or connectors.

4. CHECK TAIL LAMP GROUND OPEN CIRCUIT

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

| | Rear combinat | ion lamp | | Continuity |
|----|---------------|----------|--------|------------|
| | Connector | Terminal | Ground | Continuity |
| RH | B232 | 4 | Ground | Existed |
| LH | B60 | 4 | | Existed |

Does continuity exist?

YES >> Replace the rear combination lamp.

NO >> Repair the harnesses or connectors.

LICENSE PLATE LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

LICENSE PLATE LAMP CIRCUIT

Component Function Check

INFOID:0000000010576343

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NOTE:

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

1. CHECK LICENSE PLATE LAMP OPERATION

®IPDM E/R AUTO ACTIVE TEST

- Activate IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
- Check that the license plate lamp is turned ON.

PCONSULT 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-91, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010576344

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

- 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 p | late lamp | Continuity | | | | | |
|----|----------|----------|-----------|-----------|------------|--|--|--|--|--|
| С | onnector | Terminal | Connector | Terminal | Continuity | | | | | |
| RH | E5 | 7 | D117 | 1 | Existed | | | | | |
| LH | LJ | , | D112 | 1 | LXISICU | | | | | |

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 | amp | | Continuity |
|----|---------------|----------|--------|------------|
| | Connector | Terminal | Ground | Continuity |
| RH | D117 | 2 | Ground | Existed |
| LH | D112 | 2 | | LAISIEU |

Does continuity exist?

YES >> Replace the license plate lamp.

NO >> Repair the harnesses or connectors.

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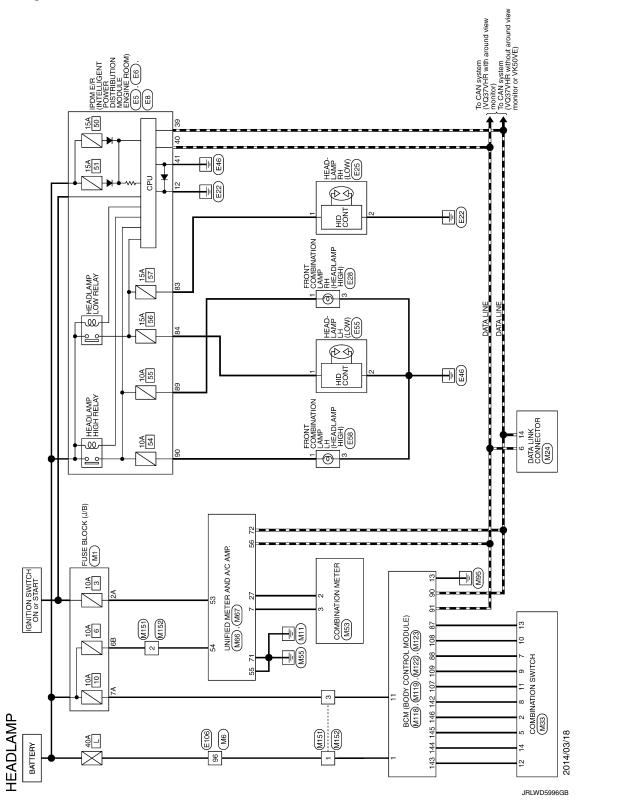
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HEADLAMP SYSTEM

Wiring Diagram - HEADLAMP -



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| Corrector No. E56 Corrector Name FRONT COMBINATION LAMP LH Corrector Type RSG4FB-FR | ₹. ** | Terminal Color Of Signal Name [Specification] No. Wire Y Y 2 G | Corrector No. E106 Corrector Name WIRE TO WIRE Corrector Type TH90FW-CS16-TN4 TH90FW-CS16-TN4 TH90FW-CS16-TN4 TH90FW-CS16-TN4 TH90FW-CS16-TN4 TH90FW-CS16-TN4 | Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] Signal Name [Specification] Signal Name [Specification] No. Signal Name No. Signal Name S |
|--|---|--|--|--|
| edor No. E28 E29 FRONT COMBINATION LAMP RH ECOT Type RSSMFB-PR | H.S. | Terminal Color Of Signal Name (Specification) No. Wire NR 1 RR 2 V | Connector No. E55 Connector Name HEADLAMP LH Connector Type E02FGY-RS H.S. | Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] 1 P |
| | Comedor No. E8 Connector No. Connector No. Connector No. Connector Name Institute Revoke to Streamon violate Connector Type NSOSEW.CS | ∕ i <u>□</u> | 84 P | Terminal Color Of Signal Name (Specification) No. White 1 R 2 B |
| HEADLAMP Cornector No. Es Perus Res Instructors Proves Democrate Perus Respector Notes P | 10 12 13 13 13 13 13 13 13 | Sgnal Name [Specification] | 910-00 NOLIDINISIA DARANCA JARAH HERITA HARA | Connector Name Equate Reconstruction Former as insulation accounts |

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|---|---------------|----------------|----------------|-----------------|-----|-----------|---|------------------|-----|-------|----------|----|---------------------|-----------------------------|---------------------|--------|---------|------------------------------|---|----------|------|--------|--------|-----------|---------|----|------|------------------|--|--------|--------------------------|-------|------|----------|----------|-----------------|--------------|--------------|-----------------|-----------------|--------------|---------|--------------|-----------------|-----------------|--------------|----|--------|----------|-------|----|
| | Υ | 1 | 9 | α | O | _ | > | ~ | : 0 | 2 8 | <u> </u> | > | 7 | Ь | BG | ΓG | SB | > | BG | BR | SB | SB | SB | ۸ | Ь | œ | 7 | BG | ۸ | SHIELD | BG | GR | Μ | SB | > | ^ | ٨ | BG | 7 | W | > | ٦ | Ь | BR | ۵ | > | O | ۵ | œ | ď | GR |
| | 33 | 34 | 37 | 38 | 93 | 4 | 42 | 43 | 2 | 48 | 3 | 46 | 47 | 48 | 49 | 20 | 21 | 52 | 23 | 24 | 22 | 29 | 09 | 61 | 62 | 83 | 64 | 65 | 69 | 70 | 71 | 72 | 73 | 74 | 9/ | 77 | 78 | 80 | 81 | 82 | 83 | 84 | 82 | 98 | 87 | 88 | 8 | 6 | 91 | 95 | 93 |
| | M6 | MIRE TO WIRE | WINE IO WINE | TH80MW-CS16-TM4 | | | 8 | | | 00 M | | | | Signal Name [Specification] | Indiana and Company | | | - [Without Auto aircon seat] | [With Auto aircon seat] | | | | | | | | | | | | | | | | | - [Without ICC] | - [With ICC] | - [With ICC] | - [Without ICC] | - [Without ICC] | - [With ICC] | | - [With ICC] | - [Without ICC] | - [Without ICC] | - [With ICC] | | | | | |
| | Connector No. | Connector Name | | Connector Type | Ш | Œ | Ţ | Ś | Ī | | | | | <u>a</u> | No. Wire | 1 G | 2 BG | 3 LG | 3 SB | 4 LG | 5 GR | M 9 | 9 2 | W 8 | 9 b | F | 11 B | 12 G | 13 R | | 15 SHIELD | 16 BR | 17 L | \dashv | - | _ | 20 W | 21 BR | 21 R | 22 L | | 23 G | 24 L | 24 P | 25 W | П | S | _ | \dashv | 30 BG | |
| | | BR . | - 1 9 <i>t</i> | | · · | 85 | | * | : 0 | 21 89 | Ó | 9 | | | \dashv | 89 F.G | 90 BR . | GR | - | 93 SB . | _ | - M 96 | - M 26 | 98 SHIELD | - 100 Y | | | Connector No. M1 | (a) I SO I I SO I I SO I SO I SO I SO I SO | | Connector Type NS06FW-M2 | 4 | | | Lio. | 8A 7A 6A 5A 4A | |] | | Jal | Wire | 1A BG . | 2A G . | 3A L | 4A R - | 5A V - | + | 7A R . | 8A L | | |
| 위 | 16 SB - | Н | 18 P - | 9 | w - | <u></u> ≻ | BB | 2 R - [With ICC] | : > | > 0 | p . | _ | 4 P - [Without ICC] | 7 | > | S | Н | - PT 6 | \dashv | \dashv | Н | | H | H | H | 97 | H | ⊢ | Н | GR - | Н | Н | | \dashv | \dashv | Н | | Н | Н | Н | Н | _ | Н | Н | Н | Н | BG | \neg | SHIELD | | |

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| HEADLAMP | | | | | | | |
|--|----------|----------------|--|----------------|--|----------------|--|
| Н | Terminal | inal Color O | | 34 B | ILLUMINATION CONTROL SIGNAL | Connector No. | M67 |
| H | Š | Wire | oignal Name [opecinication] | 36 LG | SELECT SWITCH SIGNAL | | |
| - M 6 | - | ۵ | FR WASHER (-) | 37 SB | ENTER SWITCH SIGNAL | Connector Name | |
| 98 SHIELD | 2 | g | OUTPUT 4 | H | TRIP A/B RESET SWITCH SIGNAL | Connector Type | TH32FW-NH |
| | e | H | FR WASHER (+) | 39 P | = | <u></u> | |
| | 4 | ჟ | <u>I</u> | 40 BG | ILLUMINATION CONTROL SWITCH SIGNAL (+) | C C | |
| | 5 | _ | OUTPUT 3 | | | ¥. | <u> </u> |
| Connector No. M24 | 9 | В | GROUND | | | Ų. | 24 120 123 124 125 125 125 125 125 125 125 125 125 125 |
| Connector Name DATA LINK CONNECTOR | 7 | > | INPUT 3 | Connector No. | M66 | | 3 8 |
| | ∞ | 8 | OUTPUT 5 | Connector Name | LINIFIED METER AND A/C AMP. | | 200 |
| Connector Type BD16FW | 6 | + | INPUT 2 | | \neg | | |
| ģ | 2 | + | INPUT 4 | Connector Type | TH40FW-NH | | |
| 国 | # | P. | INPUT 1 | þ | | la D | Signal Name (Specification) |
| 14 14 14 14 14 14 14 14 14 14 14 14 14 1 | 12 | \dashv | OUTPUT 1 | B | | No. Wire | li composido de la composido d |
| 1 01 410171111 | 13 | BR | INPUT 5 | ŧ | | 41 \ | ACC POWER SUPPLY |
| 3 1 5 8 7 8 | 14 | G | OUTPUT 2 | Ż E | 2 8 9 10 14 | 42 Y | FUEL LEVEL SENSOR SIGNAL |
| 000 | | | | | 8 | 43 R | INTAKE SENSOR SIGNAL |
| | | | | | | 44 LG | IN-VEHICLE SENSOR SIGNAL |
| | Conn | Connector No. | M53 | | | \dashv | AMBIENT SENSOR SIGNAL |
| la I | Cong | Connector Name | COMBINATION METER | | | 46 BG | SUNLOAD SENSOR SIGNAL |
| ol output marifolo | 8 | | | la I | Of Signal Name [Specification] | 47 V | GAS SENSOR SIGNAL |
| 3 LG - | Conne | Connector Type | TH40FW-NH | No. Wire | | 53 G | IGNITION POWER SUPPLY |
| 4 B - | | | | 2 F | MANUAL MODE SHIFT UP SIGNAL | 54 BG | BATTERY POWER SUPPLY |
| 5 B | Ø | • | | 9 9 | PADDLE SHIFTER UP SIGNAL | 55 B | GROUND |
| - I 9 | 7 | 3 | | 7 GR | COMMUNICATION SIGNAL (AMP>METER) | 7 99 1 | CAN-H |
| 7 GR - | 4 | 2 | | 8 | VEHICLE SPEED SIGNAL (2-PULSE) | M 25 | BRAKE FLUID LEVEL SWITCH SIGNAL |
| - B | | | 91 C1 00 00 00 00 00 00 00 00 00 00 00 00 00 | es 6 | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) | 28 B | FUEL LEVEL SENSOR GROUND |
| 11 SB - | | | [21] [24] [25] [25] [25] [25] [25] [25] [25] [25 | 10 W | MANUAL MODE SIGNAL | 59 GR | INTAKE SENSOR GROUND |
| 12 P | | | | 11 G | NON-MANUAL MODE SIGNAL | 7 09 | IN-VEHICLE SENSOR GROUND |
| 13 L | | | | 14 BR | COMMUNICATION SIGNAL (LCD->AMP.) | 61 BR | AMBIENT SENSOR GROUND |
| 14 P | Terminal | inal Color O | L | 20 L | ION SENSOR SIGNAL | 62 SB | SUNLOAD SENSOR GROUND |
| 16 BG . | Š | Wire | olgnar Marine [opecinication] | 23 Y | AT SNOW SWITCH SIGNAL | 63 R | ION MODE SIGNAL |
| | - | BG | BATTERY POWER SUPPLY | 25 V | MANUAL MODE SHIFT DOWN SIGNAL | 65 BG | ECV SIGNAL |
| | 2 | FG | COMMUNICATION SIGNAL (METER->AMP.) | 26 G | PADDLE SHIFTER DOWN SIGNAL | 7 69 | A/C LAN SIGNAL |
| Connector No. M33 | 3 | GR | COMMUNICATION SIGNAL (AMP>METER) | 27 LG | 0 | 70 R | EACH DOOR MOTOR POWER SUPPLY |
| HOTIMS INCITANIAMOO | 5 | В | GROUND | 28 R | VEHICLE SPEED SIGNAL (8-PULSE) | 71 B | GROUND |
| | 9 | * | ALTERNATOR SIGNAL | 30 ^ | PARKING BRAKE SWITCH SIGNAL | 72 P | CAN-L |
| Connector Type TH16FW-NH | 7 | ۵ | AIR BAG SIGNAL | 34 | COMMUNICATION SIGNAL (AMP>LCD) | | |
| | 10 | 9 | SECURITY INDICATOR SIGNAL | 38 L | BLOWER MOTOR CONTROL SIGNAL | | |
| | 15 | В | GROUND | | | | |
| | 16 | В | METER CONTROL SWITCH GROUND | | | | |
| 13.0 | 21 | ď | IGNITION SIGNAL | | | | |
| t 1 | 24 | BR | COMMUNICATION SIGNAL (LCD->AMP.) | | | | |
| 7 8 9 10 11 12 13 14 | 25 | > | COMMUNICATION SIGNAL (AMP>LCD) | | | | |
| 11 | 26 | 2 | VEHICLE SPEED SIGNAL (8-PULSE) | | | | |
| | 27 | > | PARKING BRAKE SWITCH SIGNAL | | | | |
| | 28 | | BRAKE FLUID LEVEL SWITCH SIGNAL | | | | |
| | 59 | SB | SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) | | | | |
| | 30 | o | PASSENGER SEAT BELT WARNING SIGNAL | | | | |
| | 31 | _ | WASHER LEVEL SWITCH SIGNAL | | | | |

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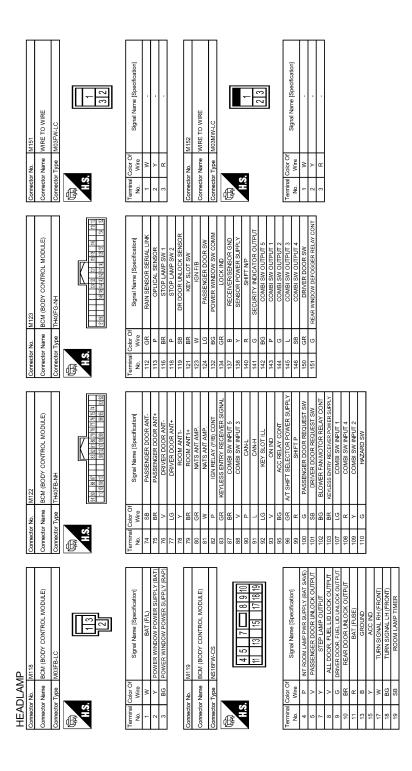
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AUTO LIGHT SYSTEM

Wiring Diagram - AUTO LIGHT SYSTEM -

В To CAN system

(VQ37VHR with around view monitor)

To CAN system
(VQ37VHR without around view monitor or VK50VE) IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (ES). (EO). С TAIL OF TAIL O D IGNITION SWITCH ON or START W Е 15A 50 CPU - N95 15A 51 F G 용 HEADLAMP I LOW RELAY 15A 57 FRONT DOOR SWITCH (PASSENGER SIDE) (B216) Н M117 B201 15A 56 HEADLAMP HIGH RELAY 10A REAR DOOR SWITCH LH (B23) BCM (BODY CONTROL MODULE) (M118) (M119) (M123) (M123) 10A 54 J 79 | FRONT DOOR | SWITCH | (DRIVER SIDE) | B16 DATA LINK CONNECTOR M24 K [M] EXL FUSE BLOCK (J/B) (M1) OPTICAL SENSOR M94 M COMBINATION SWITCH AUTO LIGHT SYSTEM 10A Ν M153 M152 E106 Me 0 40A BATTERY 2014/03/18 Р JRLWD6007GB

| <u>.</u> | | | | | | | | |
|---|--------|-------------|---|--|----------|---------------|--------------------------------|---|
| Connector No. B1 | 25 | ۵ | | Connector No. B16 | <u>_</u> | nal | Of Signal Name (Specification) | |
| Connector Name WIRE TO WIRE | 82 2 | _ [| | Connector Name FRONT DOOR SWITCH (DRIVER SIDE) | | No. | | |
| Connector Type THROEW, CS16, TM4 | 8 8 | SHIELD - | | Connector Type A03EW | Т | - c | | |
| | 6 | ۵. | | | 1 | F | | |
| 100 10 | 62 | G. | - | | <u> </u> | H | | _ |
| 8 | 63 | 9 | | | | e BG | | _ |
| 2 6 | 99 | BG | | ė | | 7 GR | | _ |
| # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 92 | ≥ : | | 2 | | + | | |
| 2 2 2 2 2 | 99 | > . | | | | 10 | | _ |
| | ۵ و | 2 > | |] | | - SHE | | _ |
| Terminal Color Of | 8 8 | - o | | Terminal Color Of | Г | ╀ | | _ |
| No. Wire Signal Name [Specification] | 70 | GR | | No. Wire Signal Name [Specification] | | 22 GR | | _ |
| 1 6 | 71 | 9 | - | 2 GR - | | H | - | _ |
| _ | 72 | В | - | | | | • | _ |
| 3 W - | 73 | ۸ | - | | | 25 V | - | _ |
| | 74 | > | | Connector No. B23 | | | | _ |
| 7 P - | 75 | BG | - | H LHOTIMS GOOD BEAD BONTON | | | - | _ |
| \dashv | 9/ | re | | | | ம் | | _ |
| 10 SB - | 7.7 | ٦ | - | Connector Type A03FW | | 31 W | | _ |
| 11 SB - | 78 | GR | - | | | 32 GR | - | _ |
| 12 B - | 62 | Μ | | K | | H | | _ |
| 13 6 | 80 | ٦ | | K | | 36 L | | _ |
| H | 81 | ۵ | | Ž. | <u> </u> | | | _ |
| 15 W | 82 | ٦ | ٠ | C | <u> </u> | 38 L | | _ |
| ŝ | 83 | ۵ | | 7 | <u> </u> | 39 P | | _ |
| 17 L - | 84 | SB | | | <u> </u> | 40 LG | - [With ICC] | |
| 18 P | 85 | ď | | | <u> </u> | 40 \ | - [Without ICC] | _ |
| H | 98 | ٨ | | lal | | 41 SB | | _ |
| 20 Y - | 87 | В | | No. Wire Signal rathe [Specification] | | 41 Y | - [Without ICC] | _ |
| H | 88 | 9 | | 2 W | | H | | _ |
| 23 V - | 88 | BR | - | | | 42 W | - [Without ICC] | _ |
| | 91 | œ | - | | | 43 B | - [Without ICC] | _ |
| 25 BR - | 92 | BG | | Connector No. B201 | | \dashv | - [With ICC] | _ |
| \dashv | 93 | æ | | Connector Name WIRE TO WIRE | | \dashv | • | _ |
| \dashv | 95 | > | | _ | _ _ | \dashv | | _ |
| \dashv | 96 | BG | | Connector Type TH80FW-CS16-TM4 | _ | 7 | | _ |
| \dashv | 26 | ≥ | | | | 46 SHIELD | | _ |
| 39 B - | 98 | GR | - | | | 47 B | | _ |
| _ | 66 | > | | *** | | 47 L | - [With ICC] | _ |
| H | | | | | | 48 P | | _ |
| 45 GR - | | | | 00 00 00 00 00 00 00 00 00 00 00 00 00 | <u> </u> | 48 R | | _ |
| | | | | # 00 A 10 10 10 10 10 10 10 10 10 10 10 10 10 | | 49 G | - [With ICC] | _ |
| 52 SB - | | | | 200 日本 | | П | - [Without ICC] | _ |
| S | | | | M N S W | | 20 SHIELD | - 07 | _ |
| 54 BR - | | | | | | 51 W | | _ |
| - × × 22 | | | | | | | | _ |
| S6 SHELD | | | | | | 53 G | | _ |
| 1 | | | | | J | $\frac{1}{1}$ | | _ |

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| Peofication) | В |
| Signal Name [5] | С |
| Corrector No. EB | D |
| On Only | Е |
| Signal Name [Specification] E8 THOSPW-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N-N | F |
| | G |
| Terminal Color O No. Wire No. Wire 10 88 12 12 88 12 13 89 11 15 18 11 16 11 1 | Н |
| Signal Name [Specification] Theorem (Cont.) | I |
| Signal Name Special Name Speci | J |
| Connector No. B Connector No. B Connector No. Wire 2 GR Connector No. Connec | K |
| | EXL |
| AUTO LIGHT SYSTEM 55 SB 60 CG | M |
| D = | Ν |
| AUT | 0 |
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| | 33 Y - | WIRE TO WIRE | 37 | TH80MW-CS16-TM4 38 R | . 9 6 | | * * * * * * * * * * * * * * * * * * * | | 25 SS | 45 | 46 | | Signal Name [Specification] | Ognativent Copouncation 49 | - 20 | | tt] 52 | - [With Auto aircon seat] 53 BG - | - 54 | - 22 | . 59 SB . | | . 61 V | - 62 P | - 63 R | . 64 L | . 65 BG . | · | - 20 SHIELD - | 71 BG . | - 72 | H | . 74 SB . | · \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | - [Without ICC] | - [With ICC] 78 Y - | - [With ICC] | | | - [With ICC] 83 Y - | | - [With ICC] 85 P | - [Without ICC] 86 BR - | - [Without ICC] 87 P | - [With ICC] 88 V - | | - d 06 | | - 92 | |
|-------------------|---------------|----------------|----------|----------------------|-------|--------------|---------------------------------------|----|---|-----------------|----|--------------|-----------------------------|----------------------------|--------------|--------|--------|-----------------------------------|------|------|-----------|-----|----------|--------|-------------|--------|-----------|---------------|---|------------------|----------------|---------|-----------|---|-----------------|---------------------|--------------|------|------|-----------------------------|----------------------------|-------------------|-------------------------|----------------------|---------------------|-----------|--------|----|-------|-----|
| | Connector No. | Connector Name | | Connector Type | | | ľ | Į. | | | | | nal C | No. Wire | ط ص | 2 BG | 3 LG | 3 SB | 4 LG | 5 GR | W 9 | 7 G | W W | а 6 | 10 BR | 11 B | 12 G | 13 R | 14 W | 15 SHIELD | Г | 17 L | 18 P | 19 G | 20 GR | 20 W | 21 BR | 21 R | 22 L | 22 R | 23 G | 24 L | 24 P | 25 W | 25 Y | 26 SHIELD | 28 GR | Н | 30 BG | H |
| - | S | | <u> </u> | S | | | • | | | _ | | | Ten | _ | | _ | _ | | | | | | | | Ľ | Ľ | Ľ | | Ľ | Ľ | Ľ | L_ 1 | | Ľ | L'` | | L'' | L`* | | `` | Ľ | Ľ | L'` | `` | <u> </u> | | L`` | | | Ľ |
| | • | | | - | | | | | | 1 | - | | - | | - | | - | | | - | | - | | - | | | | LM1 | (0)17/200101010101010101010101010101010101010 | FUSE BLOCK (J/B) | NS06FW-M2 | | [| V6 | JA ZA TA | OA 74 64 54 44 | A WANTER |] | | [adjacijjacaS] smally landS | ognal Name [opecinication] | | | | | | - | | | |
| | 9 | œ | R | ٦ | Μ | > | SB | _ | Μ | 97 | GR | 9 | Ь | ≯ | BG | 9 | BR | GR | BR | SB | Υ | W | Μ | SHIELD | > | | | | | Connector Name | Connector Type | | _ | | <i>7</i> . | | | | | O | Wire | BG | ŋ | 7 | œ | > | ٨ | œ | _ | |
| | 72 | 73 | 74 | 9/ | 22 | 78 | 8 | 8 | 82 | 83 | 8 | 82 | 98 | 87 | 88 | 8 | 90 | 91 | 92 | 93 | 92 | 96 | 26 | 86 | 100 | | | Connector No. | | Connect | Connect | ļ | | • | Ų. | | | | | Terminal | No. | 4 | 2A | 3A | 4 4 | 2A | 9 9 | 7A | 8A | |
| AUTO LIGHT SYSTEM | | | | • | | - [With ICC] | - [Without ICC] | | - [With ICC] | - [Without ICC] | | - [With ICC] | - [Without ICC] | - [Without ICC] | - [With ICC] | | - | | | | | - | | | | | | | | | | | | | | • | | • | | • | | | | | | | | | | |
| 9 [9 | SHIELD | SB | _ | Ь | 9 | ≥ | > | æ | œ | > | ტ | ٦ | Ь | _ | > | SHELD | O | re | BG | Α | ٨ | BG | \ | GR | PP | PI | > | ٣ | Ø | GR | 8 | _ | ۵ | SB | BR | a | > | BG | Я | SB | ۵ | SB | > | Ь | 9 ₁ | _ | BG | _ | SHELD | ď |
| AC | | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 22 | 23 | 24 | 24 | 52 | 22 | 56 | 28 | 59 | 30 | 32 | 33 | 34 | 37 | 38 | 39 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 20 | 51 | 52 | 53 | 24 | 22 | 29 | 09 | 61 | 62 | 63 | 64 | 92 | 69 | 20 | 7.1 |

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| d C | ۷ ـ | 9] (| ۵ | BR | 14 G OUTPUT 2 | | | Connector No. M94 | 0.000 | Connector Name OPTICAL SENSOR | Connector Type TK03FW | | | | | 0 0 7 | 0 7 1 | | | Terminal Color Of | | t | | ł | | | Connector No. M117 | Manual Ma | | Connector Type TH80MW-CS16-TM4 | | M 80 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4) | | | 1100 Stell 916 Trig | 22 23 24 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 | | 20 21 21 | Signal Name [Specification] | $^{+}$ | $^{+}$ | X : | + | 7 | | 7 B . | - | ┪ | ά | 20 R . |
|----------------|------|------------------------------------|---|-----------------------|---------------|--------|--------------|-------------------|---|-------------------------------|--------------------------------|-------|-------------------|--------------------------------------|------|----------------|-------|---------|------|-------------------|--------------------------------------|---|--------------------------------|---|-----|---|--------------------|--|----------------------|--------------------------------|--------------------------|--|----------|---|---------------------|---|---|----------|-----------------------------|----------------------------------|--------|-----------------|-------------|---------------|---------|--------|----------|-----------|-------------|-------------|
| Communitor No. | Wi24 | Connector Name DATA LINK CONNECTOR | | Connector Type BD16FW | | F | 1 1101010111 | 13 14 10 | 0 2 0 7 | × | Cor | | Terminal Color Of | No. Wire Signal Name [Specification] | 3 LG | H | | + | 7 GR | | | | ŀ | , | - 8 | 1 | I S | Connector No. M33 | COMPINATION SIMILARI | | Connector Type TH16FW-NH | B | | | 1 2 3 4 5 6 | | 2 | | Γ | Mire Signal Name [Specification] | | P FK WASHEK (-) | SB OUIPUI 4 | FR WASHER (+) | NSI 9 | | B GROUND | V INPUT 3 | BG OUTPUT 5 | 9 Y INPUT 2 |
| a yr | + | + | 1 | S | 54 BR - | 55 Y - | S6 SHIELD - | 57 P - | - · · · · · · · · · · · · · · · · · · · | S9 SHELD | - | 61 BR | H | - × × × × | 64 L | | ╁ | . 51 29 | + | 9 | + | F | H | ╀ | + | H | - Te Te | | 78 GR - | 79 R - | 80 L | 81 P | + | + | + | 85 W | + | | | + | $^{+}$ | 92 B6 | + | + | 96 BG - | + | - | - BG BC | | |
| 가 | 200 | M : | ┪ | 98 SHIELD - | 100 Y | | | Connector No. M7 | | Connector Name WIRE TO WIRE | Connector Type TH80MW-CS16-TM4 | | | | | 60 BB CC 75 | | B 2 | | Terminal Color Of | No. Wire Signal Name [Specification] | 9 | 1 × IMithout Auto aircon seat1 | | ł | H | ┝ | 8 BG - | 10 W - | 11 BG - | 12 B - | 13 G | + | Т | 16 SHELD | + | + | 5 4 5 | Z0 K | + | ^ 4 | + | + | + | 27 BG - | 28 W - | _ | . B - | \dashv | 44 W - |

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| | 1 | BG REAR | 97 | + | 69 B REAR KHUDOR SW | | | Connector No. M122 | Connector Name BCM (BODY CONTROL MODILLE) | | Connector Type TH40FB-NH | Q. | MHI | | 9190 88 87 81 82 82 81 80 18 18 17 18 17 18 17 18 | 11/1 [19] 118 [11] 110 | | | Terminal Color Of Signal Nama (Spacetical | Wire | SB | 75 BR PASSENGER DOOR ANT+ | > | <u>ة</u> 2 | 78 Y ROOM ANT1- | K 88 | W | Н | GR KEYLES | HH: | 88 V COMBI SW INPOL 3 | + | | > | BG ACC | 96 GR A/T SHIFT SELECTOR POWER SUPPLY | 99 R SHIFTP | Н | SB | BG | 103 BR KEYLESS ENTRY RECEIVER POWER SUPPLY | 97 | 108 R COMBI SW INPUT 4 | 109 Y COMBI SW INPUT 2 | 110 G HAZARD SW |
|-------------------|--------------------|--|-----|--------------------------|---------------------|---|--------------|--------------------|---|------|--------------------------|---------|------|---|---|--|-----|-----------------|---|----------------|----|-----------------------------|--|-----------------------|-------------------------|-------------------|---------------|-----|---------------------------|------------------|-----------------------|-------------------|--------|-------------------------|-------------|---------------------------------------|-------------|------|-------------------------|-----|--|---------------------|--------------------------------|--------------------------|--------------------|
| | Connector No. M119 | Connector Name BCM (BODY CONTROL MODULE) | т | Connector Type NS16+W-CS | 1 | | 4 5 7 8 9 10 | 11 13 15 17 18 19 | | | | la C | wire | 1 | 5 V PASSENGER DOOR UNLOCK OUTPUT | A ALL BOOD ELECTRON OCKOLIED | > 0 | æ | 11 R BAT (FUSE) | В | > | 17 W TURN SIGNAL RH (FRONT) | BG T∪ | 19 SB ROOM LAMP TIMER | | Connector No M121 | | | Connector Type TH40FGY-NH | A | 在打 | S | | 69 68 67 66 65 64 61 60 | | | la | Wire | 34 SB LUGGAGE ROOM ANT- | ۸ ا | 38 B BACK DOOR ANT- | 39 W BACK DOOR ANT+ | 47 Y IGN RELAY (IPDM E/R) CONT | 52 LG STARTER RELAY CONT | 60 SB ENG_START_SW |
| | Н | Н | 7 | + | S) (4 | + | 83 BG - | 84 W | 85 SB . | | 87 P | 91 L | 92 . | + | 94 BG . | + | + | H | - 91 66 | | ſ | Connector No. M118 | Connector Name BCM (BODY CONTROL MODULE) | Т | Connector Type M03FB-LC | | | 1.3 | | 1 | | Torminal Color Of | | 1 W BAT (F/L) | POWER WINDO | 3 BG POWER WINDOW POWER SUPPLY (RAP) | | | | | | | | | |
| - | | | | | T | | | | | | | | | Ī | | Ī | | | - | | | 0 | | | 0 (| J _ | | O) | | 0 | | | | | | | | | | | | | | | |
| AUTO LIGHT SYSTEM | 9 | GR - | > : | | χ α | | SHIELD - | | | SB - | | - · | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | even. | W | W [Without ICC] | | P - [With ICC] | | G - [Without ICC] | | | SHIELD - [Without ICC] | | P - [With ICC | | W] - | W - [Without ICC | SHELD | | KD (5) | 1 | | | | SB - | ۸ . | - | - | BG . | - | . g | |

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| M151 | WIRE TO WIRE | M03FW-LC | 3 1 | Signal Name [Specification] | | | | | | M152 | adiw of adiw | | M03MW-LC | | | | _ | 0 | 2 3 | | | Signal Name (Specification) | orginal realite [openinoation] | | | |
|--|---------------------------|----------------|-----------|-------------------------------|-------------------------|----------------|----------------|----------------|-----------------------|---------------|----------------|-------------------|----------------------|----------|---------------------|---------------------|-----------|---------------------------|-------------------|-------------------|-------------------|-----------------------------|--------------------------------|----------------|---------------------------------|---|
| | | П | | Ferminal Color Of No. Wire | W | Y | Я | | | | | | П | | | | | | | | | Color Of | Wire | W | Υ | œ |
| Connector No. | Connector Name | Connector Type | E.S. | Terminal No. | - | 2 | 3 | | | Connector No. | Connector Nome | COLLINGO | Connector Type | 4 | 修 | ŧ | Ģ | | | | | Terminal Color Of | No. | 1 | 2 | ဗ |
| AUTO LIGHT SYSTEM Connector No. Mr23 | BCM (BODY CONTROL MODULE) | TH40FG-NH | | f Signal Name [Specification] | RAIN SENSOR SERIAL LINK | OPLICAL SENSOR | STOP LAMP SW 1 | STOP LAMP SW 2 | DR DOOR UNLOCK SENSOR | KEY SLOT SW | IGN F/B | PASSENGER DOOR SW | POWER WINDOW SW COMM | LOCK IND | RECEIVER/SENSOR GND | SENSOR POWER SUPPLY | SHIFT N/P | SECURITY INDICATOR OUTPUT | COMBI SW OUTPUT 5 | COMBI SW OUTPUT 1 | COMBI SW OUTPUT 2 | COMBI SW OUTPUT 3 | COMBI SW OUTPUT 4 | DRIVER DOOR SW | REAR WINDOW DEFOGGER RELAY CONT | |
| O S | or Name | r Type | | Color O Wire | GR | Ы | BR | а | 8S | BR | Μ | PC | 98 | GR | Ф | > | œ | 9 | BG | Ы | 9 | 7 | SB | SR | 9 | |
| AUTO L | Connector Name | Connector Type | ₽ H.S. | Terminal Color Of No. Wire | 112 | 113 | 116 | 118 | 119 | 121 | 123 | 124 | 132 | 134 | 137 | 138 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 150 | 151 | |

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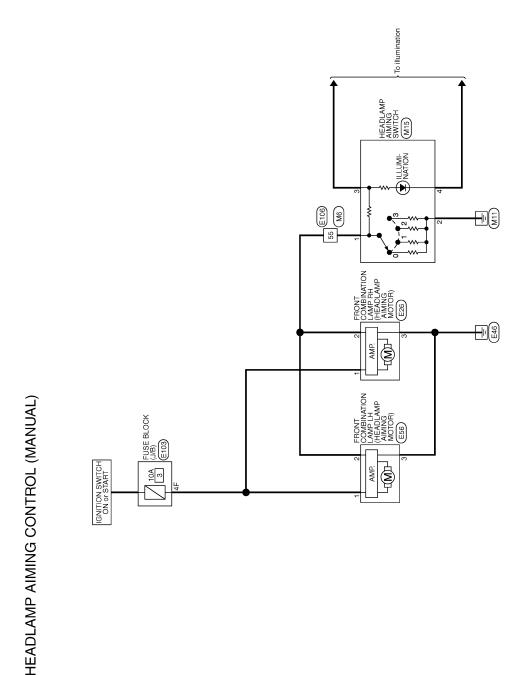
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HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

Description INFOID:000000010576347

The headlamp levelizer adjusts the headlamp light axis upward and downward with the aiming motor integrated in the front combination lamp.

Wiring Diagram - HEADLAMP AIMING CONTROL SYSTEM (MANUAL) - INFOID:000000010576348



HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

| Big Big Corrector Name Corrector | |
|--|-------------|
| 14 W W 15 SHELD 20 W 21 BR 21 BR 22 V 24 L 25 L 26 C 27 R 27 R 28 C 29 V 20 W 20 W 21 BR 22 R 24 L 25 R 26 C 27 R 27 R 28 C 29 C 29 C 20 | |
| Cornector Name FUSE BLOCK (J/B) Cornector Name Cornector Name Specification Cornector Name Name Name Cornector Name | |
| HEADLAMP AIMING CONTROL (MANUAL) Connector Name FRONT COMBINATION LAMP EH Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification] Terminal Color Of Signal Name [Specification] Term | |
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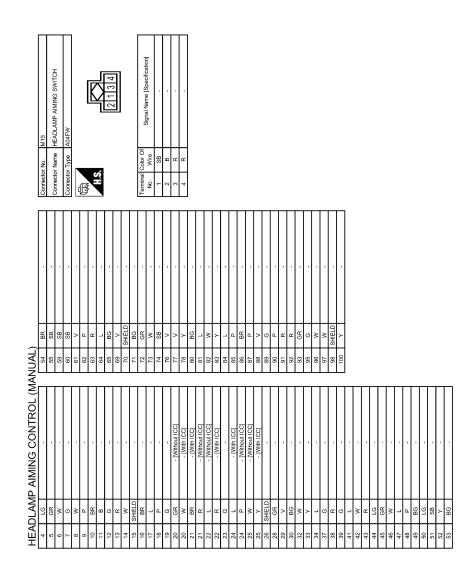
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Component Inspection

1. CHECK HEADLAMP AIMING SWITCH

1. Remove the headlamp aiming switch.

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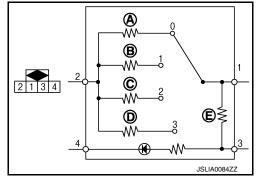
HEADLAMP AIMING CONTROL SYSTEM (MANUAL)

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

Check the resistance among each headlamp aiming switch terminal.

| Headlamp | aiming switch | Condition | Resistance |
|----------|---------------|-----------------|------------|
| Ter | minal | Switch position | (Approx.) |
| | | 0 | Α: 910 Ω |
| | 2 | 1 | Β: 680 Ω |
| 1 | | 2 | C: 510 Ω |
| | | 3 | D: 390 Ω |
| | 3 | _ | E: 390 Ω |



Is the measurement value normal?

YES >> Headlamp aiming switch is normal.

NO >> Replace the headlamp aiming switch.

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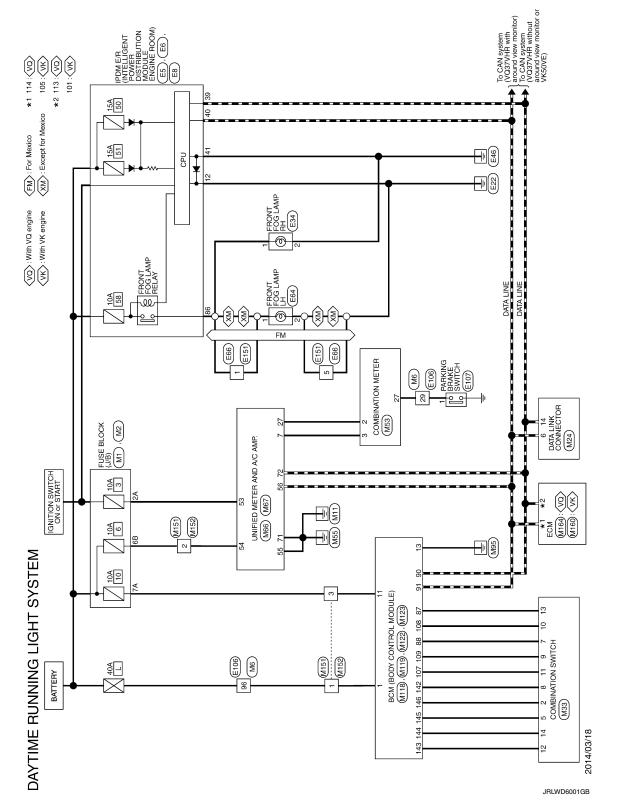
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DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram - DAYTIME LIGHT SYSTEM -



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| DAYTIME RUNNING LIGHT SYSTEM | Σ | | |
|--|--|---|--|
| Connector No. E5 | Ш | Connector No. E64 | Connector No. E106 |
| Connector Name PROPERTY POWER DISTRIBUTION MODULE ENSINE ROOM) | 45 G . | Connector Name FRONT FOG LAMP LH | Connector Name WIRE TO WIRE |
| Connector Type TH20FW-CS12-M4-1V | 1 | Connector Type FHZ02FB | Connector Type TH80FW-CS16-TM4 |
| 10 0 | Connector No. E8 Connector Name Pow ER (VIELLGEN' POWER DSTRBUTON MODILE Connector Name Broke (ROM). | (C) | |
| 7 7 7 18 | Connector Type NS08FW-CS | | |
| Terminal Color Of Signal Name [Specification] | H.S. | Terminal Color Of Signal Name [Specification] | Terminal Color Of Signal Name [Specification] No. Wire |
| 4 V | | 1 GR - [Without around view monitor] | 1 6 |
| \forall | | 7 | H |
| 7 R | Towning Off | 2 B/W - [Without around view monitor] | 3 SB . |
| + | | 45 | + |
| + | H | | - M 9 |
| Н | Н | Connector No. E66 | |
| \dashv | \dashv | Connector Name WIRE TO WIRE | _ |
| + | + | | + |
| 26 R | 89 BK | Connector Type RS08FB-PR | 10 BK |
| 28 BG - | - | | + |
| 30 GR - | | 2 | 13 R |
| 36 G - | Connector No. E34 | (4 3 2 1) | ┪ |
| | Connector Name FRONT FOG LAMP RH | 8 7 6 5 | Ś |
| Commonster No. | Connection T. on | · | 16 SB - |
| COLLECCIO INC. | 1 | | - 2 |
| | G | lal | 19 G - |
| Connector Type TH08FW-NH | | | W |
| <u> </u> | _ | 1 GR | + |
| B | | + | BR |
| T.S.H. | | ÷ 2 4 | 22 K : [With ICC] |
| | | ۳ | · 0 |
| 46 45 44 43 | Terminal Color Of Size 1 Manual Color Of | 6 BR | 24 L - [With ICC] |
| | No. Wire Signal Name (Specification) | - M 2 | Ь |
| | 1 W | 8 SHIELD - | |
| <u>a</u> | 2 B/W - | | П |
| Wire | | | Ϋ́ |
| 39 P | | | + |
| 4 | | | + |
| 41 B - | | | 30 BG - |
| 43 SB | | | + |
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| <u></u> | TIME | DAYTIME RUNNING LIGHT SYSTEM | Į | | | |
|---------|----------|------------------------------|---------------------------------------|--|------------------|--|
| 34 | BG | - | - M 96 | Connector No. M1 | Connector No. | M6 |
| 37 | \ | | | (GII) YOU IS IS IS IN A SHOWN TO SHOW THE SHOWING THE | Editor OT Editor | DOWN OF DOWN |
| 38 | GR | | SHIELD - | CONTRECTOR NATIVE PLOCE DECOR (3/D) | COLLECTOR NAME | WIRE IO WIRE |
| 39 | PI | | 100 Y - | Connector Type NS06FW-M2 | Connector Type | Connector Type TH80MW-CS16-TM4 |
| 41 | FIG | | | Ġ. | 4 | |
| 45 | > | - | | | 厚 | |
| 43 | œ | | Connector No. E107 | 34 T 100 14 | \ <u>\</u> | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 44 | G | - | Connector Name DABKING BDAKE SWITCH | Ś | 2 | 26 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 42 | GR | | . 1 | 8a 7A 6A 5A 4A | | 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| 46 | > | - | Connector Type TB01FW | | | 22 22 23 24 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26 |
| 47 | _ | | ¢ |] | | |
| 48 | ۵ | | | | | |
| 46 | SB | | | la l | la La | Singl Name (Specification) |
| 20 | BR | | | | No. Wire | orginal reality [openingation] |
| 21 | В | • | | 1A BG - | 1 G | - |
| 25 | Υ | | | 2A G . | 2 BG | |
| 23 | BG | | | 3A L - | 3 16 | - [Without Auto aircon seat] |
| 54 | œ | | | 4A R | 3 SB | - [With Auto aircon seat] |
| 22 | SB | | Terminal Color Of | 5A V | 4 LG | |
| 99 | ۵ | | No. Wire Signal Name [Specification] | , Y V9 | 5 GR | |
| 90 | 85 | | | 7A R | H | |
| 2 | > | | | ╀ | ╀ | |
| C | | | | | ł | |
| 20 5 | | | 777 | | $^{+}$ | |
| 8 | 2 | | Conhector No. E131 | Γ | + | |
| 64 | - | | Connector Name WIRE TO WIRE | Connector No. M2 | + | - |
| 99 | g | | | Connector Name FUSE BLOCK (J/B) | + | - |
| 69 | _ | | Connector Type RS08MB-PR | П | \dashv | |
| 20 | SHELD | | 4 | Connector Type NS10FW-CS | \dashv | |
| 71 | 9 | • | | | 14 W | - |
| 72 | 9 | | () | | 15 SHIELD | |
| 73 | ď | | (1121314) | | 16 BR | - |
| 74 | æ | | | Helse Hels | 17 L | |
| 76 | _ | | 8 / 9 6 | 9R 8R 7R 8B | 18 P | |
| 77 | > | |) | | 19 G | |
| 78 | > | | | | 20 GR | - [Without ICC] |
| 8 | SB | | Terminal Color Of | | 20 W | - [With ICC] |
| 81 | _ | | No. Wire Signal Name [Specification] | Terminal Color Of | 21 BR | - [With ICC] |
| 88 | > | | | No. Wire Signal Name [Specification] | 21 R | - [Without ICC] |
| 88 | 97 | | 2 SHIELD - | 1B LG . | 22 L | - [Without ICC] |
| 84 | GR | | 3 - | L | 22 R | - [With ICC] |
| 88 | ŋ | | А. | 48 G | ┝ | , |
| 90 | ٥ | | ľ | ľ | ł | [30] 4890 |
| 3 6 | . 3 | | + | + | 1 0 | DAMAPORT ICCI |
| õ | > 0 | | p : | 900 | + | [SOLUTION] - |
| 8 | 22 | | - M | + | M 62 | - [without ICC] |
| 88 | 9 | | | 88 R | ┪ | - [With ICC] |
| 6 | 뚪 | | | 9B BR | S | |
| 9 | æ | - | | | 28 GR | • |
| 95 | BR | | | | + | |
| 93 | SB | | | | 30 BG | |
| 92 | > | | | | Н | |
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| ILLUMINATION CONTROL SIGNAL SELECT SWITCH SIGNAL FRITER SWITCH SIGNAL TRIP AS RESET SWITCH SIGNAL THILMMANTON CONTROL SWITCH SIGNAL ILLUMANTON CONTROL SWITCH SIGNAL SWITCH SIGNAL SWITCH SIGNAL SWITCH SWITC | M666 UNFIED METER AND AC AMP. TH40FW-AH TH40FW-AH Signal Name (Specification) Signal Name (Specification) MANUAL MODE SHIFT UP SIGNAL PADDLE SHFITER LUP SIGNAL MANUAL MODE SIGNAL COMMUNICATION SIGNAL (LCDAMP.) TON SENSOR SIGNAL (LCDAM |
|--|--|
| 34 B 16 16 36 16 37 SB 37 SB 38 P P 9 P 9 P 9 P 9 P 9 P 9 P 9 P 9 P 9 | Corrector No. Corrector No. Corrector No. Corrector No. No. No. No. No. No. No. No. |
| Of Signal Name (Specification) FR WASHER (-) OUTPUT 4 FR WASHER (-) IGN | 100 |
| Terminal Color Ol No. Wire No. Wire No. Ol No | 10 11 11 12 13 14 15 15 15 15 15 15 15 |
| | M24 BD16FW R33 COMBINATION SWITCH TH16FWANH TH16FWANH T 8 9 1/0 [1] [2] 3 4 5 6 7 8 |
| 7EM 95 G 96 97 W 97 W 97 W 98 SHELD 100 Y | Cornector No. Cornector No |
| DAYTIME RUNNING LIGHT SYSTEM 33 Y 37 G 38 R 41 L | |
| DAYTIME F 33 | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |

Revision: 2015 February EXL-111 2015 QX70

| Competer No M123 | e. | Connector Type TH40FG-NH | | Terminal Color Of Signal Name [Specification] | 112 GR RAIN SENSOR SERIAL LINK | 113 P OPLICAL SENSOR | 116 BR STOP LAMP SW 1 | ۵ | SB DR DO | | × | PC | BG POWER V | GR | ш; | Y SENSOR | TAU THE CONTROLL OF CONTROL OF CONTRO | 9 Y | 2 0 | Ø | 145 L COMBI SW OUTPUT 3 | 146 SB COMBI SW OUTPUT 4 | 150 GR DRIVER DOOR SW | 151 G REAR WINDOW DEFOGGER RELAY CONT | | | | | | | | | |
|------------------|--|--------------------------|--|--|--------------------------------|-----------------------------------|------------------------------------|--------------------------------|----------|--|---------------------------------------|-------------------------|--|----------|---------------------|-----------------------------------|--|--|-----------------------|-----------------------|-------------------------------------|----------------------------------|---------------------------------------|---------------------------------------|--------------------|--|-------------|----------------------------|--------------------|-------------|-----------|------------|---|
| M123 | | Type TH40FB-NH | (S) (S) (N) (N) (N) (N) (N) (N) (N) (N) (N) (N | Solor Of Signal Name [Specification] | SB PASSENGER DOOR ANT- | | V DRIVER DOOR ANT- | LG DRIVER DOOR ANT+ | | | | W NATS ANT AMP. | \dashv | KEYLES | BR COMBI SW INPUT 5 | COMB | CANT | LG KEV SIOT III | | BG ACC RELAY CONT | GR AT SHIFT SELECTOR POWER SUPPLY | R SHIFT P | G PASSENGER DOOR REQUEST SW | \dashv | \dashv | BR KEYLESS ENTRY RECEIVER POWER SUPPLY | | R COMBI SW INPUT 4 | Y COMBI SW INPUT 2 | G HAZARD SW | | | |
| Connector No | Connector Name | Connector Type | H.S. | Terminal Color Of No. Wire | 74 | 75 | 92 | 77 | 78 | \dashv | \dashv | 81 | \dashv | | 87 | 88 8 | 90 | 5 6 | 583 | ╁ | H | 66 | 100 | \dashv | \dashv | 103 | 107 | 108 | 109 | 110 | | | |
| | DULE) | | | ation] | | UPPLY (BAT) | JPPLY (RAP) | | | | 9 | ,, | | | | 0 10 | 2 9 | 1/ 18 19 | | | lastical | cationi | Y (BAT SAVE) | OCK OUTPUT | PUT | CK OUTPUT | LOCK OUTPUT | OUTPUT | | 0 | QV | RH (FRONT) | LH (FRONT) |
| 8118 8118 | | Type M03FB-LC | 113 | color Of Signal Name [Specification] | W BAT (F/L) | Y POWER WINDOW POWER SUPPLY (BAT) | BG POWER WINDOW POWER SUPPLY (RAP) | | ١ | No. M119 | Name BCM (BODY CONTBOL MODULE) | | Type NS16FW-CS | | | 4 5 7 7 8 | - S | 11 13 15 | | | | Wire Signal Name [Specification] | P INT ROOM LAMP PWR SUPPLY (BAT SAVE) | V PASSENGER DOOR UNLOCK OUTPUT | Y STEP LAMP OUTPUT | V ALL DOOR, FUEL LID LOCK OUTPUT | DRN | BR REAR DOOR UNLOCK OUTPUT | R BAT (FUSE) | B GROUND | Y ACC IND | | BG TURN SIGNAL LH (FRONT) SB ROOM I AMP TIMER |
| Connector No | ше | Connector Type M03FB-LC | H.S. | Terminal Color Of Signal Name [Specific | | Г | П | | ١ | Connector No. M119 | Connector Name BCM (BODY CONTROL MODI | | Connector Type NS16FW-CS | ģ | 断 | | - S | 11 13 15 | | | Terminal Color Of Signal Manager | | П | 5 V PASSENGER DOOR UNLC | 7 Y STEP LAMP OUT | > | g | | | | 15 Y ACCI | M. | 1 |
| LIGHT SYSTEM | A/C AMP. Connector Name | П | <u>~</u> | Signal Name [Specification] Terminal Color Of No. Wire | | NAL 2 Y | 3 BG | IN-VEHICLE SENSOR SIGNAL | | AL Connector No. | Connector Name | | SUPPLY Connector Type | | <u> </u> | | - S | | AMBIENT SENSOR GROUND | SUNLOAD SENSOR GROUND | Color Of | No. Wire | Ь | > | 7 Y | > | g | H | œ | В | λ | M. | S BC |
| Connector No | me UNIFIED METER AND A/C AMP. Connector Name | Connector Type | H 13 (88) | Specification] Terminal Color Of No. Wire | W | 2 Y | 3 BG | 44 LG IN-VEHICLE SENSOR SIGNAL | | BG SUNLOAD SENSOR SIGNAL Connector No. | V GAS SENSOR SIGNAL | G IGNITION POWER SUPPLY | BG BATTERY POWER SUPPLY Connector Type | B GROUND | CANH | W BRAKE FLUID LEVEL SWITCH SIGNAL | S FUEL LEVEL SENSOR GROUND | INTAKE SENSOR GROUND INTAHIC E SENSOR GROUND | BR AMBIENT SEN | SB | R ION MODE SIGNAL Terminal Color Of | No. Wire | 4 P | > | B GROUND 7 Y | > 8 | g | H | œ | В | λ | M. | S BC |

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| M151 Connector No M160 | | | DAYTIME BLINNING LIGHT SYSTEM |
|--|--|--|--|
| WINEE TO WINEE Connector Name COM | Mission | Miss Corrector Name ECM Corrector Name C | Mist Cornector No. Mist Mist Cornector No. Mist Cornec |
| Signal Name Specification Wine | Mission | Miscape Cornector Name ECM Cornector Type In In In In In In In I | MosFW.LC |
| Signal Name [Specification] Sign | Mist | MIST Corrector Name ECM | MoSFW.LC Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Cor |
| MINE TO WIRE Corrector Name ECM Corrector Name Corrector Name Corrector Name Corrector Type RIPAFFSY-RZB-RLH-Z Corrector Type RIPAFFSY-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB | Miss | Miss Corrector Name ECM Corrector Name C | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct |
| Signal Name Specification Wire TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE Signal Name Specification Wire | Missing | Misc Cornector Name ECM | Miss Corrector No. Miso Corrector Type C |
| Signal Name Specification Wire TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE Signal Name Specification Name Name Specification Name Na | Mission | Misc Cornector Name ECM Cornector Name Experimental Experim | Miss Corrector No. Miso Corrector Type Corrector Ty |
| Signal Name [Specification] Wine | Mission Connector Name ECM Connector Name CONNECTOR Connector Name CONNECTOR CO | Miss Corrector Name ECM Corrector Name Corrector Na | MosFW.LC |
| MINE TO WIRE Corrector Name ECM Corrector Type RIPAFFSY-RZB-RLH-Z Corrector Type RIPAFFSY-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB | Mission | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | Miss Corrector Name ECM Corrector Name C |
| Signal Name [Specification] Signal Name [Specification] No. Wire Signal Name [Specification] No. | Miss | MIST Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | MoSFW.LC Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Cor |
| Signal Name [Specification] Wine Connector Name C | Mission | Misc Cornector Name ECM Cornector Type In In In In In In In I | Miss Corrector No. Miso Corrector Type C |
| Signal Name Specification Mossww.LC | Mist Connector Name ECM Connector Name ECM GROUND ECM E | Miss Corrector Name ECM Corrector Name C | Miss Corrector Name ECM Corrector Name ECM Corrector Name Co |
| Signal Name Specification Sign | Miscape Connector Name ECM Connector Name Connector Name ECM Connector Name Connect | MIST Corrector Name ECM | MoSFW.LC Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Cor |
| Signal Name [Specification] Wire TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE | Mission | Mist Cornector Name ECM E | Miss Corrector No. Miso Corrector No. Miso Corrector No. Miso Corrector No. Miso Corrector Type Correct |
| MINE TO WIRE Corrector Name ECM Corrector Name Corrector Name Corrector Type RIPAFFSY-RZB-RLH-Z Corrector Type RIPAFFSY-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB | Miss | Miss Corrector Name ECM Corrector Name C | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct |
| Signal Name Specification Signal Name Specification Signal Name Specification Signal Name Specification No. Wine Specification | Mist Connector Name ECM EC | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | Miss Corrector Name ECM Corrector Name C |
| Signal Name Specification Wire TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE TO WIRE Signal Name Specification Wire | Mission | Miss Corrector Name ECM Corrector Name END | Miss Corrector No. Miso Corrector Type C |
| MINE TO WIRE Corrector Name ECM MOSPWALC MOSPWALC Signal Name Specification Wire Signal Name Si | Mist Connector Name ECM | Miss Corrector Name ECM Corrector Name C | Miss Corrector No. Miso Miso Corrector No. Miso M |
| Signal Name [Specification] No. Wire | Mist Connector Name ECM | MIST Corrector Name ECM ECM | Miss Corrector Name ECM Corrector Name C |
| Signal Name Specification Wine Signal Name Specification Wine Signal Name Specification No. Wine Signal Name No. Wine Signal Name No. Wine No. Wine Signal Name No. Wine | M151 Connector Name ECM Connector Name CM Connector Name CM CM CM CM CM CM CM C | MISE TO WIRE Corrector Name ECM | Miss Corrector No. Miso Mis |
| Signal Name Specification | Mission | Miss Corrector Name ECM Corrector Name C | Miss Corrector No. Miss Miss Corrector No. Miss |
| Signal Name Specification Sign | Mist Connector Name ECM | MIST Corrector Name ECM ECM | Miss Corrector No. Corrector Type Correcto |
| MINE TO WIRE Corrector Name ECM Corrector Name | Mission Connector Name ECM Connector Name CONNECTOR Connector Name Con | MISE TO WIRE Corrector Name ECM Corrector Name | Miss Corrector No. Miso Corrector Type |
| MINE TO WIRE Corrector Name ECM Corrector Type RIPAFFGY-RZB-R.LH-Z RIPAFFGY-RZB-RZB-R.LH-Z RIPAFFGY-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB-RZB | Mission | Miss Corrector Name ECM Corrector Name C | Miss Corrector Name ECM Corrector Name ECM Corrector Name Co |
| MosPW.LC Corrector Name ECM Corrector Name COMMISSION Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type Correcto | Miss | MISE TO WIRE Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Corre | MoSFW.LC Corrector Name ECM Corrector Name Correcto |
| MosPW.LC | Mission Connector Name ECM Connector Name Con | Misc Cornector Name ECM ECM Cornector Name ECM EC | Miss Corrector No. Miso Corrector Type C |
| MINE TO WIRE Corrector Name ECM MOSFWULC | Mission | Miss Corrector Name ECM Corrector Name C | Miss Corrector No. Miso Mi |
| MosPW.LC Corrector Name ECM Corrector Name ECM Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type Right Corrector Type Correct | Miss | Misc Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | Miss Corrector Name ECM Corrector Name Corrector Name ECM Corrector Name EC |
| MosPW.LC Corrector Name ECM Corrector Name ECM Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type RIPATES R.L.H.Z Corrector Type | Mission | Mist Cornector Name ECM Cornector Name Cornector | Miss Corrector No. Miso Corrector Type Correc |
| MINEE TO WIRE Cornector Name ECM | Missing | MIST Corrector Name ECM Corrector Type Image Ima | Miss Corrector No. Miso Corrector No. Miso Corrector No. Wine Corrector Type |
| Signal Name Specification Wire TO WIRE WIRE WIRE WINCH TO WIRE TO WIRE TO WIRE WIRE WINCH WITH WE CONTROL WOUNG EPOND WINCH TO WIRE TO WIRE WINCH TO WIRE WINCH TO WIRE WINCH WITH WITH WE WINCH WITH WE WINCH WITH WE WINCH WITH WE WIRE WINCH WITH WE WINCH WITH WINCH WITH WE WINCH WITH WITH WE WINCH WITH WE WINCH WITH WE WINCH WITH WE WINCH WITH WITH WITH WE WINCH WITH WITH WITH WITH WITH WITH WITH WIT | M151 Connector Name ECM | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Corrector Nam |
| MosPWALC Corrector Name ECM Corrector Name ECM Corrector Name Corrector Name Corrector Name Corrector Name Corrector Type RIPATES RALHZ Corrector Type RIPATES RALHZ Corrector Type | M151 Connector Number ECM ECM Connector Number ECM ECM Connector Number ECM ECM Connector Number ECM E | Misc Corrector Name ECM Corrector Name Ecpeditional Name Especification Name Name Name Especification Name Name Especification Name Name | MoSFW.LC Corrector No. M160 Corrector No. M160 Corrector No. M160 Corrector No. Corrector No. Corrector No. Corrector No. Corrector Type Corrector Typ |
| MINEE TO WIRE Corrector Name ECM | M151 Connector Name ECM Connector Name CM Connector Name CM CM CM CM CM CM CM C | MISE TO WIRE Corrector Name ECM ECM | Miss Corrector No. Miso Corrector No. C |
| MINE TO WIRE Corrector Name ECM | M151 Connector Name ECM E | Miss Corrector Name ECM Corrector Name C | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name CM CM CM CM CM CM CM C |
| MosPW.LC Corrector Name ECM Corrector Name ECM Corrector Name Corrector Name Corrector Type RIPATES R.L.H.Z Corrector Type RIPATES R.L.H.Z Corrector Type Corrector Typ | Miscape Connector Name ECM Connector Name Con | MIST Corrector Name ECM ECM Corrector Name ECM EC | Miss |
| MUSE TO WIRE Corrector Name ECM | Mission | MISE TO WIRE Corrector Name ECM Corrector Type In In In In In In In I | Mist Corrector No. Misto |
| MINE TO WIRE Corrector Name ECM | M151 Connector Name ECM E | Miss Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name ECM Corrector Name Correct | Miss Corrector No. |
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| WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Name Connector Name Connector Name Connector Name | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FN/LC Connector Type RHZ4FGY-RZ5-RLH-Z Connector Type Connector Type Connector Type Connector Type | M151 | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. |
| WIRE TO WIRE MOSFW4.C WORSTALLY CONNECTOR Type RPG4FGY-RZB-R-LH-Z CONNECTOR Type RPG4FGY-RZB-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RHC4FGY-RZ6-RLH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW.LC Connector Type RREAFGY.RZB.R.LH.Z Connector Type Connector Type Connector Type Connector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. |
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| WIRE TO WIRE MOSFW4.C Connector Name ECM MOSFW4.C Connector Type RHZ4FGY-RZ9.R-LH-Z Connector Type Connector Type Connector Type Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH2AFCY-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RR64FGY-R22-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector Name ECM Connector Name CONNect |
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| WIRE TO WIRE MOSFW1.C Corrector Name ECM MOSFW1.C Corrector Type RHZ4FGY-RZ8-RLH-Z Corrector Type Corrector Type [28] [28] [48] [48] [48] [48] [48] | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH24FGY-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. M160 Connector Name ECM Connector Name ECM Connector Name COnnector Type RPQ4FGY-RZ8.RLH-Z Connector Type Conn | M151 Connector No. M160 Connector No. M160 Connector Name ECM Connector Name COnnector Name COnnector Type RPC4FSY-RZ8-R-LH-Z Connector Type Connector |
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| WIRE TO WIRE MOSFW4LC Corrector Name ECM Corrector Name ECM Corrector Name Corrector Type Correc | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW4.C Connector Type RRA4F67-RZ3-RLH-Z Connector Type | M151 Connector No. M160 Connector No. M160 Connector Name ECM Connector Name CM Connector Name CM COnnector Name CM COnnector Name CM CM CM CM CM CM CM C | M151 WIRE TO WIRE M0SFW4.C Cornector Type RECAFGY-RZS-R-LH-Z Cornector Type |
| WIRE TO WIRE Corrector Name ECM Corrector Name M03FW.LC Corrector Type RHC4FGV-RZ8-R.LH-Z Corrector Type | M151 Connector No. M160 Connector Num. WIRE TO WIRE Connector Name ECM Connector Name MOSFW4.C Connector Type RH24FG7-RZ3-R1.H-Z Connector Type | M151 Connector No. M160 Connector Name Connector Name WIRE TO WIRE Connector Type RHZ4FGV-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIFE Connector Name ECM Connector Name M05FW1.C Connector Type RHZ4FGY-RZ5R-LH-Z Connector Type |
| WIRE TO WIRE Corrector Name Corrector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name EC/M Corrector Name M03FW.LC Connector Type RH64FGV-R23-R-LH-Z Connector Type | M151 Connector No. M160 Connector Name Connector Name M05FW4.C Connector Type RHZ4FGY-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE MASEWALC Connector Name ECM Connector Name M03FWALC Connector Type RPK4FGY-RZB-R-LH-Z Connector Type |
| WIRE TO WIRE Corrector Name Corrector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name EC/M Corrector Name M03FW.LC Connector Type RH24FGV-R22-R-LH-Z Connector Type | M151 Connector No. M160 Connector Name Connector Name Connector Name Connector Name M03FW4.LC Connector Type RHC4FGV-RZ8-RLH-Z Connector Type | M151 Connector No. M150 Connector No. M150 Connector No. M151 Connector No. Connector No. Connector Name ECM Connector Name Connector Name Connector Name Connector Type RHC4FGY-RZ5R-LIHZ Connector Type Connec |
| WIRE TO WIRE Corrector Name | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name EC/M Cornector Name MASPW.LC Connector Type RH24FGY-RZB-RLH-Z Connector Type | M151 Connector No. M160 Connector Name Connector Name Connector Name Connector Name M03FW1.C Connector Type RHZ4FGY-RZ5.R.LH-Z Connector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. Connector No. Connector Name ECM Connector Name Connector Name Connector Type RHC4FGV-RZ8-R-LH-Z Connector Type Conne |
| WIRE TO WIRE Corrector Name ECM Corrector Name M05FW.LC Corrector Type RHZAFGY-RZB-R.LHZ Corrector Name | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name EC/M Cornector Name MASFW.LC Connector Type RHZ4FGY-RZ8.R.LHZ Connector Type | M151 Connector No. M160 Connector Name Connector Name Connector Name Connector Name M03FW.LC Connector Type RHZ4FGV-RZ8-RLH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05FW.LC Connector Type RHCAFGV-RZB-R-LH-Z Connector Type |
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| WIRE TO WIRE Corrector Name ECM Corrector Name M05FW1.C Corrector Type RH24FGY-RZB-R-LH-Z Corrector Name | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name EC/M Cornector Name MosFW.LC Cornector Type RHCAFGY-RZB-R:LHZ Cornector Type | M151 Cornector No. M160 Cornector No. M160 Cornector Name COM CORNECTOR CORNE | M151 Connector No. M160 Connector No. |
| WIRE TO WIRE Corrector Name ECM Corrector Name MOSFW4.C Corrector Type RH24FGY-RZB-R-LH-Z Corrector Name | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name ECM Cornector Name MOSFW.LC Cornector Type RHZ4FGV-RZ9-R:LHZ Cornector Type | M151 Cornector No. M160 Cornector No. M160 Cornector Name COM CORNECTOR CORNECT | M151 Connector No. M160 Connector No. |
| WIRE TO WIRE Corrector Name ECM Corrector Name M03FW.LC Corrector Type RHZ4FGV-RZ3-R-LH-Z Corrector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFWLC Connector Type RHZ4FGV-RZ9-R-LHZ Connector Type | M151 | M151 Connector No. M160 Connector No. |
| WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH24FGV-RZ9-R:LH-Z Connector Name | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW4.C Connector Type RHZ4FGY-RZ5-R1.HZ Connector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name ECM Cornector Name M05FW.LC Cornector Type RHC4FGV-RZ6-R-LH-Z Cornector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. M161 Connector No. Connector |
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| WIRE TO WIRE Corrector Name ECM Corrector Name M05FW.LC Connector Type RH2AFGV-RZB-R-LHZ Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RHC4FGY-RZ6-RLH-Z Connector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name ECM Corrector Name M03FW.LC Cornector Type RH:G4FGV-RZB-R-LH-Z Cornector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. |
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| WIRE TO WIRE Connector Name ECM Connector Name M0SFW.LC Connector Type RHZ4FSV-RZ8-R:LHZ Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RHC4FGV-RZ6-R-LH-Z Connector Type Inch Inch Inch Inch | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW.LC Connector Type RH24FSY-RZ5-R-LHZ Connector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. |
| WIRE TO WIRE Connector Name ECM Connector Name M0SFW.LC Connector Type RHZ4FSV-RZ8-R:LHZ Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RHC4FGV-RZ6-R-LH-Z Connector Type Inch Inch Inch Inch | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW.LC Connector Type RH24FSY-RZ5-R-LHZ Connector Type | M151 Connector No. M160 Connector No. M160 Connector No. M161 Connector No. |
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| WIRE TO WIRE Cornector Name ECM MOSFW4.C Connector Type RHZ4FGV-RZ9.R-LH-Z Connector Type RHZ4FGV-RZ9.R-LH-Z Connector Type RHZ4FGV-RZ9.R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RRAFIGY-RZB-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH24FGY-RZ3.R-LH.Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW.LC Connector Type RHZ4FGY-RZ9.FL.H.Z Connector Type |
| WIRE TO WIRE Cornector Name ECM Cornector Name MOSFW-LC Cornector Type RPCAFCN-RZS-R-LH-Z Cornector Type RPCAFCN-RZS-R-LH-Z Cornector Type RPCAFCN-RZS-R-LH-Z Cornector Type RPCAFCN-RZS-R-LH-Z CORNECTOR Name | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RR44FGY-RZ8-RLH-Z Connector Type | M151 Connector No. M160 Connector Name WIRE TO WIRE Connector Type RHZ4FGY-RZ9.FL.H-Z Connector Type M0SFW.LC RPZ4FGY-RZ9.FL.H-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M0SFW.LC Connector Type RHZ4FGY-RZ8-R-LH-Z Connector Type |
| WIRE TO WIRE Corrector Name ECM Corrector Name M05FW.LC Corrector Type RH24FGV-RZ6-RLH-Z Corrector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05FW.LC Connector Type RPQ4FGV-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector Name WIRE TO WIRE Connector Name ECM Connector Name M0SFW-LC Connector Type RHZ4FGV-RZ8-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIFE Connector Name ECM Connector Name M03FW-LC Connector Type RHZ4FGY-RZ9-RLH-Z Connector Type |
| WIRE TO WIRE Corrector Name ECM Corrector Name MOSFW.LC Corrector Type RHCAFGV-RZB-R-LH-Z Corrector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW4.C Connector Type RRPQ4F67-RZDR-LH-Z Connector Type | M151 Connector No. M160 Connector Name Connector Name Connector Name M03FW1.C Connector Type RHZ4FGY-RZ8-RLH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RHC4FGY-RZ8-R-LH-Z Connector Type |
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| WIRE TO WIRE Corrector Name ECM Corrector Name MOSFW4.C Corrector Type RH24FGV-RZB-R-LH-Z Corrector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name EC/M Corrector Name M03FW.LC Connector Type RH24FGF-R22.FLH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05FW-LC Connector Type RHEAFGY-RZB-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RPGAFGV-RZB-R-LH-Z Connector Type |
| WIRE TO WIRE Corrector Name ECM Corrector Name M03FW.LC Connector Type RH24FGV-RZB-R.LH.Z Connector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFWLC Connector Type RHZ4FGV-RZ8-R.LH-Z Connector Type | M151 Connector No. Mri60 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05FW4.C Connector Type RHZ4FGY-RZ8-R1.HZ Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH24F6V-RZB-R.LH-Z Connector Name |
| WIRE TO WIRE Corrector Name ECM Corrector Name M0SFW-LC Connector Type RHZ4FGV-RZ8-R:LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW-LC Connector Type RHZ4FGY-RZ5-RLH-Z Connector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name ECM Cornector Name M03FW.LC Cornector Type RHC4FGY-RZ6-RLH-Z Cornector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05PW.LC Connector Type RHZ4FGV-RZ8-R.LH-Z Connector Type |
| WIRE TO WIRE Connector Name ECM Connector Name M03FW-LC Connector Type RHZ4FGV-RZ6-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSFW.LC Connector Type RHZ4FGVFRZ6.RLHZ Connector Type | M151 Cornector No. M160 Cornector No. WIRE TO WIRE Cornector Name ECM Corrector Name M03FW.LC Cornector Type RHSAFGVFRZB.R.LHZ Cornector Type | M151 Connector No. M160 Connector No. M160 Connector No. Connector No. Connector Name Conn |
| WIRE TO WIRE Connector Name ECM Connector Name M05FW.LC Connector Type RH2AFGY-RZ8-R.LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RH24FGY-RZ3-R-LH-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M03FW.LC Connector Type RR424FGY-RZ3-R-L.H-Z Connector Type | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name M05FW.LC Connector Type RR484FGY-RZ3-R-LH-Z Connector Type |
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| WIRE TO WIRE Connector Name ECM Connector Name COMPANY NAME CONNECTOR NAME OF CONNEC | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MADDEM I.O. Connector Total DEVASED DE LEZ Connector Total | M151 Connector No. M160 Connector No. WIRE TO WIRE Connector Name ECM Connector Name MOSEMA C Connector Tona Connector Tona | M151 |
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| | M451 | M454 Connector No M460 | |

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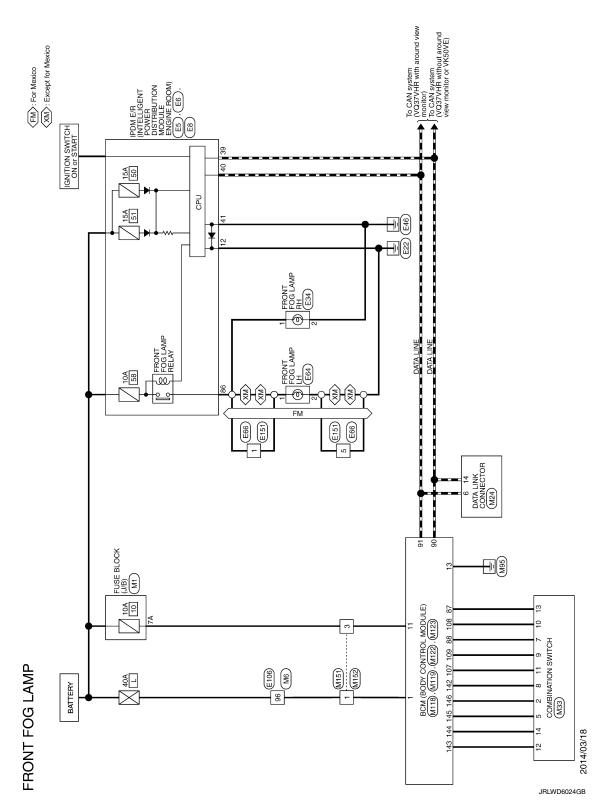
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FRONT FOG LAMP SYSTEM

Wiring Diagram - FRONT FOG LAMP -



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| Connector No. E5 | Н | Cornector No. E64 | Connector No. | E106 |
|--|---|--|------------------------------|--------------------------------|
| Connector Name PDM EIR (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | 45 G 46 BR | Connector Name FRONT FOG LAMP LH | Connector Name | WIRE TO WIRE |
| Connector Type TH20FW-CS12-M4-1V | ł | Connector Type FHZ02FB | Connector Type | Connector Type TH80FW-CS16-TM4 |
| 10 12 13 13 13 13 13 13 13 | Connector No. E8 Connector Name Broke Robust Connector Type NSOBFWLCS | H.S. | 语. S.H | |
| Terminal Color Of Signal Name [Specification] | H.S. | Terminal Color Of Signal Name [Specification] No. Wire | Terminal Color O No. Wire | Of Signal Name [Specification] |
| | ᅦ | 1 GR - [Without around view monitor] | 1 | |
| | | | 2 BG | |
| | | B/W | 3 SB | |
| | Tg. | 2 GR - [With around view monitor] | 7 | |
| | Wire | | + | |
| | 4 | | 9 | |
| 91 | + | Connector No. E66 | 2 C | |
| | 4 | Connector Name WIRE TO WIRE | 8 | |
| | \dashv | | \dashv | |
| - | 89 BR - | Connector Type RS08FB-PR | _ | |
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| | Connector No. E34 | (4 3 2 1) | 14 W | |
| | Consequence Name EBONT FOCI AMP BH | 3 2 0 | 15 SHIELD | |
| | | | 16 SB | • |
| E6 | Connector Type FHZ02FB |) | 17 L | • |
| Power Name IPOW ER (INTELLIGENT POWER DISTRIBUTION MODULE | 4 | | 18 P | • |
| ENGINE ROOM) | | la l | 19 G | - |
| Connector Type TH08FW-NH | | No. Wire | 20 W | - [With ICC] |
| | | 1 GR . | 20 Y | - [Without ICC] |
| E | ((2)1) | 2 L . | 21 BR | • |
| |) | 3 × | 22 R | - [With ICC] |
| Ş | | 4 R | 22 ^ | - [Without ICC] |
| 42 4 1 40 38 | | 5 B/W | 23 G | |
| 46 45 44 43 | Terminal Color Of Size 1812 | 6 BR | 24 L | - [With ICC] |
| 2 | No. Wire Signal Name [Specification] | - M 2 | 24 P | - [Without ICC] |
| | | 8 SHIELD | 25 L | - [Without ICC] |
| Terminal Color Of Signal Manual Consideration | 2 B/W - | | 25 Y | - [With ICC] |
| Wire Ognial Name [Specification] | | | 26 SHIELD | |
| | | | 28 G | |
| | | | 29 LG | |
| - | | | Н | - |
| | | | 32 W | - |
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| | \dashv | 30 BG . | 32 W - | * | ٦ | ø | 38 R | 39 G | | 42 W - | 43 R . | 97 | GR | M | 7 | 48 P | 49 BG - | . 51 05 | 51 SB . | 52 Y . | 53 BG . | Н | SB | 59 SB - | | \dashv | Н | ď | \dashv | ٦ | ┪ | S | \dashv | - | + | <u>"</u> | + | 4 | \dashv | 80 BG - | 81 L . | 82 W - | * | 7 | 85 P . | 7 | | \dashv | . · · · · · · · · · · · · · · · · · · · | 90 P |
|---|----------|---------|-------------|------------------|--|---------------------------------|--------------------------------|------|---------|--------------------------|--------|--|---|-------|---|--------------|-------------------------------------|---------|---|--|--------------------------------|------------|--------|---------|--------|----------|-------|---|----------|------------------|------------------------------------|----------|--------------------------|---------|----------|----------|----------|-----------------------|----------|--------------------|----------------------|----------------------|--|---------|-------------------|----------|---|----------|---|---------|
| | 8A L | | | Connector No. M6 | L CONTROL OF L L CONT | Connector Name Wirks 10 Wirks | Connector Type TH80MW-CS16-TM4 | | | | | 88 88 88 88 88 88 88 88 88 88 88 88 88 | 2 × 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | nal Color Of | No. Wire Oglika Name [Opecimoation] | - · | 2 BG . | 3 LG - [Without Auto aircon seat] | 3 SB - [With Auto aircon seat] | 4 LG - | 5 GR . | | 7 G - | - × | - d 6 | 7 | \dashv | \dashv | \dashv | | Ø | 16 BR . | + | + | Ø | GR | W | 21 BR - [With ICC] | 21 R - [Without ICC] | 22 L - [Without ICC] | 22 R - [With ICC] | 23 G - | 24 L - (With ICC) | ۵ | M | ╛ | 26 SHIELD - | 28 GR . |
| | | - M 26 | 98 SHIELD - | 100 Y | | | Connector No. E151 | | | Connector Type RS08MB-PR | | | | 1.5. | 1 | 8 / 90 |) | | Terminal Color Of Signal Name (Specification) | No. Wire Signar Marine [Specification] | 1 1 | 2 SHIELD - | 3 L | 4 R . | 5 GR . | . 9 | 7 W | | ſ | Connector No. M1 | Connector Name FLISE BLOCK (J/B) | \neg | Connector Type NS06FW-M2 | φ | | 34 | 5 | RA 7A 6A 5A 4A | |] | | Terminal Color Of | No. Wire Signal Marine (Specification) | 1A BG - | 2A G - | \dashv | | \dashv | 6A Y - | 7A R - |
| 8 | 34 BG - | 37 Y - | Н | Н | 41 LG - | \vdash | 43 R - | _ | 45 GR - | ⊢ | 47 L | H | ┝ | 50 BR | ⊢ | H | H | ┝ | Н | Н | Н | Н | H | 63 LG - | Н | 65 BG - | | ψ | \dashv | \dashv | 73 R - | \dashv | \dashv | 4 | \dashv | 80 SB - | \dashv | \dashv | \dashv | Н | Н | H | H | Н | Н | 90 BR - | + | ┥ | 93 SB - | Н |

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| FRONT FOG LAMP | G LAMP | | | | | | | | | |
|------------------|------------------------------------|----------------|---------------------|--|-------------------|--|---|-------------------|----------------|--|
| 91 R | | Connector No. | or No. M33 | | Connector No. | M119 | | 82 | ۵ | IGN RELAY (F/B) CONT |
| 92 R | | | | | | $\overline{}$ | 1 | 83 | GR | KEYLESS ENTRY RECEIVER SIGNAL |
| 93 GR | | Connector Name | | COMBINATION SWITCH | Connector Name | BCM (BODY CONTROL MODULE) | OL MODULE) | 87 | BR | COMBI SW INPUT 5 |
| ╁ | | Connecto | Connector Type TH16 | TH16FW-NH | Connector Tvp | Connector Type NS16FW-CS | | 88 | > | COMBLSW INPLES |
| ╀ | | | 7,50 | | | | | 6 | | I-NeC |
| ╀ | | Œ | | | Œ | | | 9 5 | - | TAN C |
| T | | 生艺 | | 7 | 生艺 | | | 5 | , . | 11000 |
| 38 SHIELD | | S : \ | | | S . | 45 7 | 8 9 10 | 38 | 2 ; | KEY SLUI ILL |
| 7 00r | | | • | 1 2 3 4 5 6 | | • | ֓֞֜֞֜֟֝֟֝֟֝֟֟֝֟֓֓֟֟֓֓֟֟֓֓֟֟֟ | 28 | > | ONIND |
| | | | | 7 | | 11 13 15 | 5 17 18 19 | 32 | + | ACC RELAY CONT |
| - | | | | 7 8 8 10 11 17 13 14 | | | | 96 | _ | AT SHIFT SELECTOR POWER SUPPLY |
| Connector No. M | M24 | | | | | | | 66 | œ | SHIFT P |
| Onnector Name | Connector Name DATA LINK CONNECTOR | | | | | | | 100 | g | PASSENGER DOOR REQUEST SW |
| | | Terminal | Color Of | Signal Name Consideration | Terminal Color Of | Of Signal Name (Specification) | Cnosification | 101 | SB | DRIVER DOOR REQUEST SW |
| Connector Type B | BD16FW | No. | Wire | Signal realife [Specification] | No. Wire | | openicationi | 102 | BG | BLOWER FAN MOTOR RELAY CONT |
| | | - | Ь | FR WASHER (-) | 4 P | | SUPPLY (BAT SAVE) | 103 | BR | KEYLESS ENTRY RECEIVER POWER SUPPLY |
| | | 2 | SB | OUTPUT 4 | 2 N | PASSENGER DOOR UNLOCK OUTPUT | R UNLOCK OUTPUT | 107 | 97 | COMBI SW INPUT 1 |
| Į | 7 77 97 | е | BG | FR WASHER (+) | 7 | STEP LAMP OUTPUT | P OUTPUT | 108 | œ | COMBI SW INPUT 4 |
| ξĊ | 11 12 13 14 10 | 4 | ŋ | <u>G</u> N | 8 | ALL DOOR, FUEL LID LOCK OUTPUT | ID LOCK OUTPUT | 109 | > | COMBI SW INPUT 2 |
| | 7 | 2 | _ | OUTPUT 3 | 6 | DRIVER DOOR, FUEL LID UNLOCK OUTPUT | LID UNLOCK OUTPUT | 110 | o | HAZARD SW |
| | 0 / 0 6 + 6 | 9 | a | GROUND | 10 BR | REAR DOOR UNLOCK OUTPUT | LOCK OUTPUT | | | |
| | | 7 | > | NPUT 3 | ± | BAT (FUSE) | :USE) | | | |
| | | 80 | BG | OUTPUT 5 | ╀ | | ONO | Connector No. | l | M123 |
| erminal Color Of | | ď | > | NPLT 2 | H | | CN | | Ī | |
| No. | Signal Name [Specification] | 1 | · a | NPI T 4 | 17 W | TI INN SI | RH (FRONT) | Connecto | r Name | Sonnector Name BCM (BODY CONTROL MODULE) |
| t | | 1 | 91 | INPUT 1 | H | | LH (FRONT) | Connector Type | Т | TH40FG-NH |
| H | | 12 | ۵ | OUTPUT 1 | H | | WP TIMER | | 1 | |
| ┝ | | 13 | R | INPUT 5 | ł | | | Œ | | |
| 7 9 | | 14 | 9 | OUTPUT 2 | | | | ŧ | | [|
| 7 GR | - | | | | Connector No. | M122 | | Ş | | 31 21 21 |
| \dashv | | | | | Connector Name | BCM (BODY CONTROL MODILE) | (HINDOM IC | | 1 % | 21 21 21 21 21 21 21 21 21 21 21 21 21 2 |
| | - | Connector No. | or No. M118 | | | | (| | ا | |
| 12 P | | Connecto | Consector Name BCM | (3 III IOOM IOBINOS AGOB) MSB | Connector Type | B TH40FB-NH | | | | |
| 13 L | - | | | (SOCI SOUTH SOCIETY) | ¢ | | | | | |
| Н | | Connector Type | or Type M03FB-LC | B-LC | F | | | Terminal Color Of | Color Of | Signal Name (Specification) |
| 16 BG | | 4 | | | Ę | <u>L</u> | 17 | ġ. | Wire | Odina real of opening |
| | | 多 | | | į | 01 01 88 87 87 88 88 | 14 80 74 87 87 87 87 84 14 | 112 | GR | RAIN SENSOR SERIAL LINK |
| | | Ě | | Ŧ | | 1101001181181181181181181181181181181181 | 60 50 50 50 50 50 50 50 50 50 50 50 50 50 | 113 | ۵ | OPLICAL SENSOR |
| | | 5 | | 13 | | | 2000 | 116 | BR | STOP LAMP SW 1 |
| | | | | 1 | | | | 118 | ۵ | STOP LAMP SW 2 |
| | | | | 7 | | | | 119 | SB | DR DOOR UNLOCK SENSOR |
| | | | | | Terminal Color Of | | | 121 | R | KEY SLOT SW |
| | | | | | No. Wire | e signal Name [Specification] | specification | 123 | Α | IGN F/B |
| | | Terminal | Color Of | Constant Name (Special Constant Constan | 74 SB | 3 PASSENGER DOOR ANT- | DOOR ANT- | 124 | 9 ₁ | PASSENGER DOOR SW |
| | | No | Wire | orginal ivalile [opecification] | 75 BR | PASSENGER DOOR ANT+ | DOOR ANT+ | 132 | BG | POWER WINDOW SW COMM |
| | | 1 | Μ | BAT (F/L) | Λ 92 | DRIVER DOOR ANT- | OOR ANT- | 134 | GR | LOCK IND |
| | | 2 | Y POW | POWER WINDOW POWER SUPPLY (BAT) | 77 LG | DR | OOR ANT+ | 137 | В | RECEIVER/SENSOR GND |
| | | က | BG POW | POWER WINDOW POWER SUPPLY (RAP) | 78 Y | ROOM ANT1- | ANT1- | 138 | Υ. | SENSOR POWER SUPPLY |
| | | | | | + | | ANT1+ | 140 | ď | SHIFT N/P |
| | | | | | + | | VT AMP. | 141 | ŋ | SECURITY INDICATOR OUTPUT |
| | | | | | 81 W | NATS ANT AMP. | T AMP. | 142 | BG | COMBI SW OUTPUT 5 |

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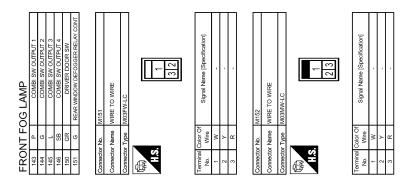
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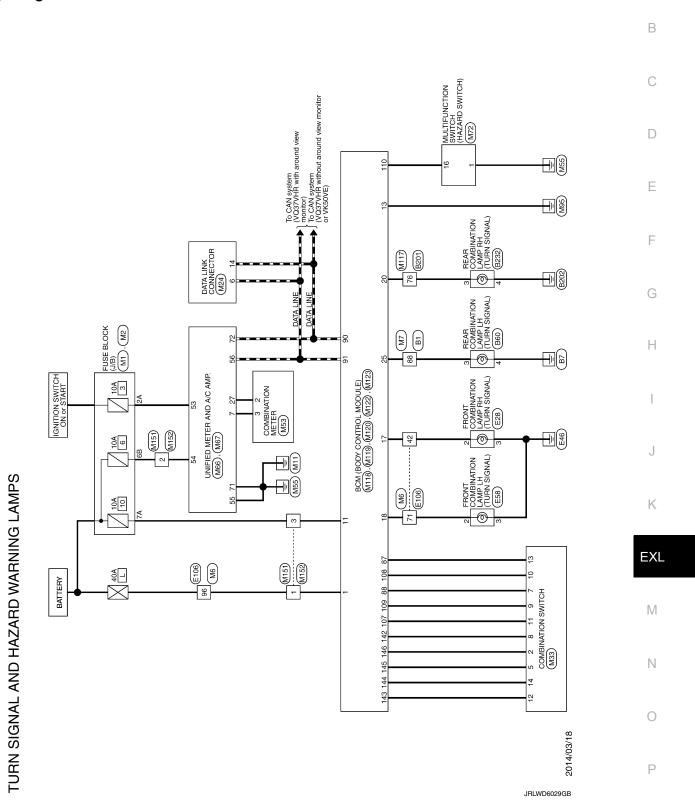
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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram - TURN AND HAZARD WARNING LAMPS -



Revision: 2015 February EXL-119 2015 QX70

| The Company of the | Connector Name WIRE TO WIRE | 'n | | | | | 07 | 9 | | |
|--|--|------|----------|--------------|----------------|---|----------|----------------|------------------|---|
| State Conventor Name REAR COMBINATION LAMP LH A State Conventor Name Convento | Name WIRE TO WIRE | 5 | + | COLLECTO 140 | Ι | 000 | 3 | 9 : | , | Τ |
| Standing Standing | | 8 8 | T | Connect | | REAR COMBINATION LAMP LH | 72 | - <u>i</u> | | Τ |
| Specification Part Part | TURN TURNETAL COAR TALL | 8 9 | Ť | , tours | T Supply | TUD ARMY NEU | 2 20 | OUIL W | | Τ |
| Signature Shortfredford No. No | | 8 8 | + | Cornec | or 1ype | LICHINA-IALI | 5 | > 6 | | Τ |
| Signat Name Source Catology 1 1 2 2 2 2 2 2 2 2 | Ιœ | 5 6 | + | Œ | | | 32 | 5 8 | | Τ |
| Signal Name (Specification) 10 Corrector Name (Name (Name (Specification) 10 Corrector Name (Name (Nam | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30 6 | $^{+}$ | 封 | | [| 3 8 | 3 - | | Τ |
| Signate Name (Specification) 1 | 20 100 EVEN 200 100 EVEN 200 100 EVEN 200 EVEN 2 | 3 8 | + | H | | 4 | 37 39 | ۵ د | | Τ |
| Signate Name (Specification) 170 CR | 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 5 4 | + | | 1 | 7 | 5 8 | - | | Τ |
| Signate Name (Specification) 17 0 GR 18 0 CR 17 1 GR 18 1 CR 17 1 GR 18 1 CR 18 1 CR | 100 | CO S | + | | | 1 2 3 4 | 8 8 | | | Τ |
| Signal Manne (Specification) 170 GR 171 G G G G G G G G G G G G G G G G G G | | 00 2 | + | | | | 8 | | : Sol Haller | Τ |
| Signati Name (Specification) 77 68 6 7 7 7 6 7 7 | ah | 5 6 | + | | | | 5 | 2 > | - [willing] | T |
| Signal Name (Specification) | | 8 8 | + | F | | | ; - | > 8 | - [williour Ice] | Τ |
| 17 17 18 18 18 18 18 18 | Signal Name | 9 | + | all lemme | 5 Join 1 | Signal Name [Specification] | 47 | у > | - [with ICC] | Τ |
| 77 6 9 1 1 1 1 1 1 1 1 1 | | 2 | + | 2 | D I | | 4 | - | - [without Icc.] | Т |
| 77 8 9 4 8 7 7 1 1 1 1 1 1 1 1 | 9 | ٦ | + | | ~ | | 42 | > | - [with ICC] | Τ |
| 77 W Corrector No. Corrector No. Corrector No. | | 12 | + | 2 | 9 | | 45 | > | - [Without ICC] | T |
| 74 B Corrector Name REDITION Corrector Name C | | 73 | - | 3 | g | - | 43 | В | - [Without ICC] | 1 |
| 75 80 Corrector Name WIRE TO WIRE CONTROLOR Name CO | 9 | 74 | _ | 4 | В | | 43 | BR | - [With ICC] | |
| 770 LG LG LG LG LG LG LG L | ٠. | 75 | | | | | 44 | ۲ | | |
| 77 L | BG - | 9/ | _ | | | | 45 | 9 | | |
| 73 678 | - as | 77 | _ | Connect | | B201 | 46 | BG | - [With ICC] | |
| 73 W Corrector Name WRE 10 WIRE 81 P Corrector Type Theoretical Plane WIRE 10 WIRE 81 P Corrector Type Theoretical Plane WIRE 10 WIRE 82 L C C C C 82 R C C C C 83 P C C C C 84 SS C C C 85 R C C C C 85 R C C C C C C C 85 R C C C C C C C 85 R C C C C C C C 85 R C C C C C C C C 85 R C C C C C C C C 85 R C C C C C C C C 85 R C C C C C C C C 85 R C C C C C C C C C | 88 | 78 | H | | | | 46 | SHIELD | - [Without ICC] | Γ |
| Signature Sign | | 62 | ╁ | Conneci | or Name | WIRE TO WIRE | 47 | | - IWithout ICCI | Γ |
| 15 15 15 15 15 15 15 15 | | æ | ł | Journal | Т | THROEW, CS16, TM4 | 47 | - | - IWith ICCI | Τ |
| State Control Contro |) a | 8 8 | ╁ | 2 | | | 48 | ۵ ر | - [With ICC] | Τ |
| Signature Sign | : M | 8 | ╁ | Œ | _ | | 84 | . ~ | - IWithout ICCI | Τ |
| Secondaria Sec | - 000 | 8 | ╁ | 手 | | | 49 | | - [With ICC] | Γ |
| Signature Sign | | 88 | ┢ | 1 | , | 2 | 49 | > | - IWithout ICCI | |
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| 19 | M : | 8 | + | | | | 22 | · 0 | | T |
| 91 R 10 10 10 10 10 10 | ^ | 200 | + | lerming | 5 | Signal Name [Specification] | 4 | 7 | | Τ |
| 92 BG 94 N 95 N | ٠, | 91 | \dashv | ė | Wire | | 22 | SB | | T |
| Secondary Seco | BR - | 92 | | - | g | | 9 | GR | - | 1 |
| 94 V | GR - | 93 | | 2 | œ | | 61 | 97 | ı | |
| 96 BG 64 SB 64 S | BG . | 98 | | 3 | BR | | 62 | SB | | |
| State Stat | - M | 96 | H | 4 | SB | | 63 | ۵ | | Γ |
| 98 GR | | 97 | | 9 | BG | | 8 | BR | | |
| Second S | | 86 | H | 7 | GR | | 65 | BG | | |
| 10 G G G G G G G G G G G G G G G G G G G | SS | 66 | H | 00 | > | | 99 | >- | | |
| | | | ł | 5 | ď | | 67 | Ņ | , | Γ |
| 20 LG P | - 0 | | | ; | 0 11 | | 5 8 | : (| | Τ |
| 22 GR 772 22 GR 774 23 LG 774 24 W 775 25 C | - CAN | | | - 8 | OLIEP OLIEP | | 1 00 | 9 8 | i) | T |
| 23 GR - 73 73 73 74 75 75 75 75 75 75 76 76 76 76 76 76 76 76 76 76 76 76 76 | ^ | | | ρ | - | | 1 | 9 | | Т |
| 2 GR 73 2 1G | SB - | | | 21 | ۵. | | 72 | > | | ٦ |
| 23 LG - 74 75 75 75 76 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 76 77 77 | HELD - | | | 22 | GR | | 73 | PI | | 1 |
| 24 W 75 75 76 76 76 76 76 76 77 76 77 76 77 77 77 | BR - | | | 23 | P | | 74 | × | - | |
| 25 V - 76 | · · | | | 24 | W | | 75 | BR | | |
| | | | | 25 | > | | 76 | > | , | Γ |

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TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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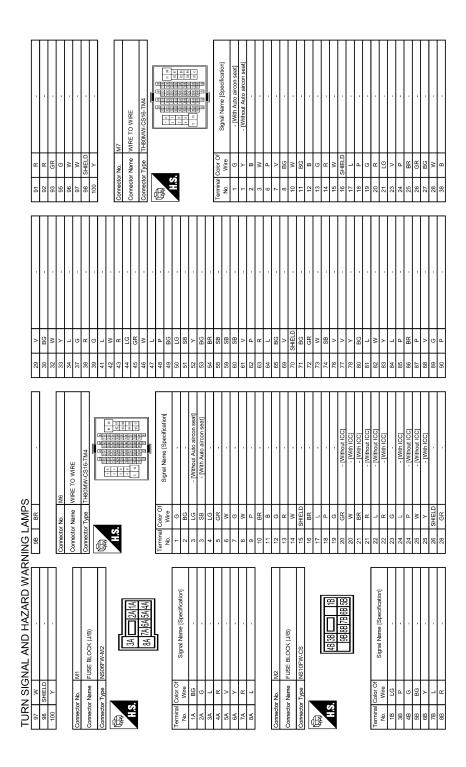
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| 33 39 39 39 41 42 44 45 45 46 46 46 46 47 48 48 48 48 48 48 48 48 48 48 48 48 48 | 9 |
| Corrector No. E106 Corrector Name WIRE THOU-W-CS16-TM4 H.S. E. C. | Terminal Color Of Nure 1 G G 2 BG 3 SB 4 LG 5 V 7 G G 9 R 11 B R 11 B R 11 B R 11 C G 12 C C C C C C C C C C C C C C C C C C C |
| RNING LAMPS Connector No. E28 Connector Name FRONT COMBINATION LAMP RH Connector Type RSudfB-PR | Terminal Color Of No. Wire Signal Name Specification 1 BR |
| TURN SIGNAL AND HAZARD WARNING LAMPS 10 10 10 10 10 10 10 1 | 10 10 10 10 10 10 10 10 |

Revision: 2015 February EXL-121 2015 QX70



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|--------------|-------------------|--------------------------------------|----------|----------------|---|-----|-------|-----------------|-------------------|--|
| ¥ | ٥ | AMBIENT SE | | | | 47 | a | [O] Without [O] | | |
| 46 | - 88 | SUNLOADS | Conneci | Connector Name | WIRE TO WIRE | 47 | ر ، | - [With ICC] | Connector Name | HECM (BODY CONTROL MODULE) |
| 47 | > | | Connect | Connector Type | TH80MW-CS16-TM4 | 48 | ۵ | - [With ICC] | Connector Type | e M03FB-LC |
| 23 | 9 | | ¢ | | | 48 | ď | - [Without ICC] | 4 | |
| 54 | BG | BATTER | F | _ | 200 E | 49 | ტ | - [With ICC] | 修 | |
| 22 | В | | ŧ | , | # 1 | 49 | ≷ | - [Without ICC] | Ę | T |
| 26 | 4 | \dashv | 2 | 5 | 1 1 1 1 1 1 1 1 1 1 | 20 | SHELD | - | 2 | 13 |
| 22 | ≥ | H | | | のないのでは、大学のは、大学のは、大学のは、大学のは、大学のは、大学のは、大学のは、大学の | 21 | BG | | | <u>}</u> |
| 28 | В | ш | | | (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | 52 | ВR | • | | 7 |
| 29 | GR | | | | | 23 | O | | | |
| 9 | _ | _ | | | | 54 | _ | | | |
| 61 | BR | | Termina | 0 | Signal Name [Specification] | 22 | ۵ | - | la D | Of Signal Name (Specification) |
| 62 | SB | SUNI | No. | Wire | orginal reality [Opcompanion] | 9 | P | | No. Wire | |
| 63 | æ | ION MC | - | GR | - | 61 | æ | - | - M | |
| 99 | BB | | 2 | BR | | 62 | SB | | 2 Y | POWER WINDOW POWER SUPPLY (BAT) |
| 99 | _ | A/C LAN SIGNAL | က | > | | 63 | > | | 3 BG | POWER WINDOW POWER SUPPLY (RAP) |
| 20 | œ | EACH DOC | 4 | SB | | 64 | > | | | |
| 71 | 8 | H | 9 | > | | 92 | HH. | | 1 | |
| 72 | ۵ | | _ | m | | 99 | 88 | | Connector No. | M119 |
| | | | α | 3 | | 67 | 3 | | | т |
| | | | 9 5 | . > | | 8 | : 0 | | Connector Name | ne BCM (BODY CONTROL MODULE) |
| Connector No | of No. | M72 | 7 | : 10 | | 4 | 9 | | Cont.T. | NO JECHW CO |
| | 100 | Τ | - 8 | | | - 6 | 9 3 | | CONTINUE IND | ٦. |
| Connec | Connector Name | ne MULTIFUNCTION SWITCH | 2 2 | χ (| | 7) | > ; | | 1 | |
| | | _ | 17 | 9 ; | | 2 | > ! | | 季 | |
| Connec | Connector Type | e TH16FW-NH | 22 | g B | | 74 | 2 | |) II | 7 7 7 8 9 10 |
| ą | • | | 23 | > | | 75 | æ | | 2 |] |
| F | Ţ | | 54 | ≥ | | 9/ | > | | | 11 13 15 17 18 19 |
| | e | <u></u> | 52 | œ | | 77 | ၅ | • | | |
| | 5 | 1 6 8 1/1/16 | 56 | ۵ | | 8 | œ | | | |
| | |)) | 27 | _ | - | 82 | > | - | | |
| | | 135 | 28 | SHIELD | | 83 | BG | | Terminal Color Of | Political Specification of the second specification of the |
| | | | 31 | Α | - | 84 | Μ | | No. Wire | |
| | | | 32 | × | | 82 | SB | | 4 P | INT ROOM LAMP PWR SUPPLY (BAT SAVE) |
| Termina | Terminal Color Of | r Of Signal Name (Specialized) | 33 | SB | | 98 | В | | 2 | PASSENGER DOOR UNLOCK OUTPUT |
| ō. | Wire | olgika ivalite | 36 | ٦ | - | 87 | Ь | • | 7 Y | Н |
| - | 8 | GF | 37 | ۵ | - | 91 | ٦ | | 8 | ALL DOOR, FUEL LID LOCK OUTPUT |
| 3 | ^ | / ACC | 38 | ٦ | | 92 | 7 | • | 9 | DRIVER DOOR, FUEL LID UNLOCK OUTPUT |
| 4 | ď | | 38 | ۵. | | 93 | ტ | | 10 BR | REAR DOOR UNLOCK OUTPUT |
| 2 | œ | ILL CONT | 40 | > | | 94 | BG | | = | BAT (FUSE) |
| 9 | SB | B AV COMM (H) | 41 | SB | - [With ICC] | 92 | > | | 13 B | GROUND |
| 8 | PP | 3 AV COMM (L) | 4 | > | - [Without ICC] | 96 | O | | 15 Y | ACC IND |
| თ | H | | 45 | > | - [With ICC] | 97 | O | | 17 W | TURNSIC |
| 14 | SB | SIG | 45 | * | - [Without ICC] | 86 | _ | | 18 BG | |
| 16 | Ű | | 43 | æ | - [Without ICC] | 66 | 9 | | ┝ | 3 ROOM LAMP TIMER |
| | | | 43 | ۵ | - Iwith Iccl | | | |] | |
| | | | 44 | . ~ | | | | | | |
| | | | 45 | : o | - [Without ICC] | | | | | |
| | | | 45 | _ | - [With ICC] | | | | | |
| | | | 46 | g | - [With ICC] | | | | | |
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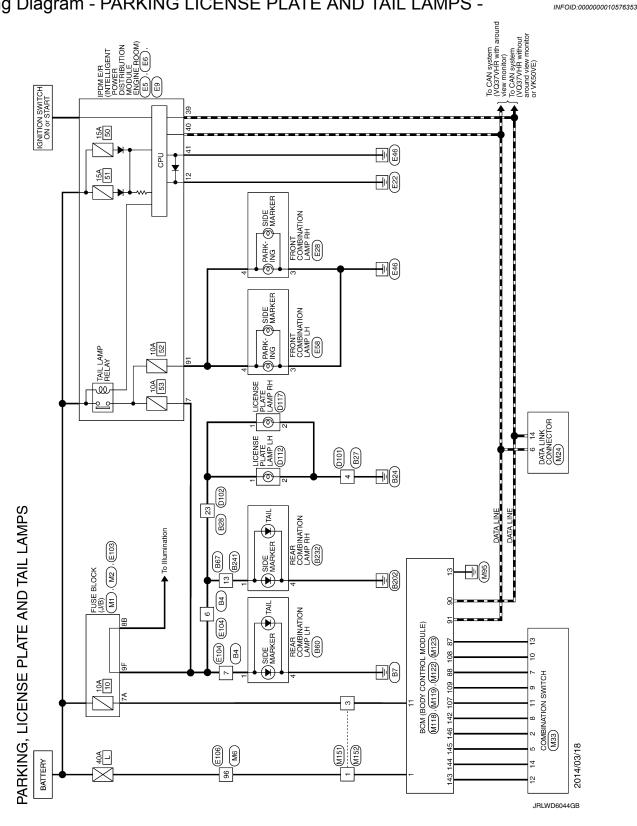
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram - PARKING LICENSE PLATE AND TAIL LAMPS -



PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[XENON TYPE]

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| | Α |
|--|-------------|
| 2 2 1 1/10 9 8 1 1/10 9 1/ | В |
| ThoMMV-NH ThoMMV-NH ThoMMV-NH Signal Name Specification Specification Signal Name Specification Signal Name Specification Specif | С |
| Corrector No. B223 | D |
| | Е |
| Signal Name Specification Specificatio | F |
| The B60 Cober Of Wire The B67 Cober Of Wire The B67 Cober Of Wire B7 Cober Of Cober Of Wire B7 Cober Of Cober Of Cober Of Wire B7 Cober Of Cob | G |
| Corrector Name Corrector Name Corrector Name No. Wire No. Wire No. Corrector Type Corrector Type No. Wire | Н |
| 0 WIRE W-NH 4 5 6 7 8 9 0 11 12 13 14 15 5 7 8 9 0 11 12 13 14 15 15 5 6 7 8 9 0 11 12 13 14 15 15 6 7 8 9 14 15 15 14 15 15 7 8 9 14 15 15 15 15 8 9 14 15 15 15 15 9 15 15 15 15 15 10 15 15 15 15 10 15 15 15 10 15 15 15 10 15 15 10 15 15 10 15 15 10 15 15 10 | I |
| 1 HS28M | J |
| Connector Name Connec | К |
| reaton] | EXL |
| E TO WIRE Signal Name Special | M |
| Connector Name WIR | N |
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| PARKING, LICENSE PLATE AND TAIL LAMPS | AIL LAMPS | | |
|---|--|--|---|
| Connector No. D101 | 14 LG - | la l | Connector No. E6 |
| Connector Name WIRE TO WIRE | 15 BG . | No. Wire Ognan van Eupeomoanon | Connector Name PDM &IR (NTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type M08EW.GY-LC | + | - c | Connector Type THOSEW.NH |
| | ┞ | ┨ | |
| | H | | |
| | 20 R . | Connector No. E5 | |
| 4 3 2 1 | + | Connector Name IPDM E/R (INTELLISENT POWER DISTRIBUTION MODULE | 1.35 |
| 2 2 2 | _ | ENGINE ROOM) | 00 01 11 71 |
| > | + | Connector Type TH20FW-CS12-M4-1V | 46 45 44 43 |
| | + | Q | |
| | + | | |
| <u>ام</u> | 26 GR - | I | Tg. |
| No. Wire | \dashv | 10 12/13 [25/26/27/28 33] | Wire |
| + | 32 BG - | 4 5 7 16 19 36 | 39 P |
| \dashv | | | \dashv |
| 3 R | ١ | | 41 B - |
| 4 GR - | Connector No. D112 | | 42 Y - |
| 9 | Competer Name IOENGE BLATE AMB II | Terminal Color Of Signal Name (Specification) | 43 SB - |
| 7 L/B - | | No. Wire Signal ratio [Specification] | 44 W |
| 8 SHIELD - | Connector Type TK02FBR | 4 V | 45 G - |
| | | - · | F |
| | | 7 R | |
| Connector No. D102 | | 10 SB - | |
| | 2 | 12 B . | Connector No. E9 |
| Connector Name WIRE TO WIRE | 2 1 | H | PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE |
| Connector Type TH32FW-NH | | 16 LG | Connector Name Engine Room) |
| | | H | Connector Type TH16FW-NH |
| | | 25 G - | |
| |) Jai | 26 R | |
| 1.3 | No. Wire Signal Name [Specification] | 27 Y - | |
| 4 0 | 1 P . | _ | 70 10 |
| 11 01 61 107 17 177 167 147 167 107 107 187 106 116 126 | 2 B - | 30 GR - | |
| | | 36 G | 104 |
| | | | |
| Signal Name [Specification] | Connector No. D117 | | |
| \top | Connector Name LICENSE PLATE LAMP RH | | Signal Name [Specification] |
| - c | Contraction of the contraction o | | + |
| 7 2 | Collifector Type TN0ZFBR | | |
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PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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| | Е |
| Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) Signal Name (Specification) - (Without (CC) - (Without | F |
| | G |
| Connector No. Connector Name Connector Name Connector Name No. Wine No. Wi | Н |
| Corrector Name FLOSE BLOCK (JB) Corrector Name FLOSE BLOCK (JB) Corrector Type NS15FW-CS Corrector Type NS12MW-CS | J K |
| Cornector No. E38 Cornector No. E38 Cornector No. No | M N |
| JRLWD60- | O |
| JHEMPOR. | ,, GD |

Revision: 2015 February EXL-129 2015 QX70

| | 91 R - | L | GR | U | × | * | SHIELD | > | 4 | | 200 | CONTRECTOR INC. | Connector Name DATA LINK CONNECTOR | П | Connector Type BD16FW | d | | 24 14 14 14 14 14 | + | 1 5 5 7 | 0 / 0 0 + 0 | | | Terminal Color Of | | t | 3 0 | 2 u u | n - | - 1 9 | YS (| | 200 | | 7 ' | T (| ┨ | | | | | | | | | | | | | | |
|---------------------------------------|---------|-------|----|------------------|----|--------------------------------|--------------------------------|---------------------------------|--------------------------|-----------------|-----|---|---------------------------------------|---------------------------------------|-------------------------|----------|----------|--------------------------------|----|---------|-----------------------------------|----|----|-------------------|----|-----|--------|-------|-----|-------|------|-----|---------------------------------|-------------|----------------------------|------|---|--|----|----------------|-------------------|--------------------|----------------------|----|--------------------------------------|-----|-----|--------|------|----------------------|--------|
| | - | | | | | | | | | • | | | | - | | | | - | | | | | | | | | | | | | | | | | | | | | | - | | | | | | | | | | • | |
| | ^ | BG | H | > | - | 9 | H | ┞ | + | + | + | + | + | + | 8 | \dashv | \dashv | | 97 | SB | > | F | ┝ | H | ╀ | 8 8 | $^{+}$ | + | ł | + | + | 2 > | ā | Ť | $^{+}$ | + | + | 4 | 4 | > | > | BG | ٦ | * | ╀ | ł | , , | $^{+}$ | 7 | 1 | $^{+}$ |
| | 58 | 8 | 32 | 33 | 34 | 37 | 38 | 30 | 3 = | ç | 7 | 3 : | 1 | 42 | 46 | 47 | 48 | 49 | 20 | 51 | 52 | 53 | 55 | 55 | ů, | 9 | 8 6 | 9 | 3 8 | 2 2 | 5 8 | 8 8 | 8 6 | 0 2 | 1 | 7 6 | 1 | 74 | 9/ | 77 | 78 | 80 | 81 | 82 | 8 | 84 | 8 | 5 6 | 8 | ò | ľ |
| FAIL LAMPS | 9B BR - | | | Connector No. M6 | | Connector Name WIRE O WIRE | Connector Type TH80MW-CS16-TM4 | | | 1 0 100 346 866 | | \$ 20 00 00 00 00 00 00 00 00 00 00 00 00 | महरू जान जान गाँउ तहा जान जान गाँउ | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 50 E | | g E | No. Wire Ognal Marie Operatori | | 2 BG - | 3 LG - [Without Auto aircon seat] | | | 5 GR | * | : 0 | 0 3 | × a | - 0 | HA a | n (| 5 0 | x 3 | | STIELD | X6 - | + | + | ဖ | | 20 W - [With ICC] | 21 BR - [With ICC] | 21 R - [Without ICC] | 1 | 02 | : @ | + | J (| a. : | Z5 W - [Without ICC] | |
| PARKING, LICENSE PLATE AND TAIL LAMPS | | SHELD | | | | Connector No. M1 | | Connector Name FUSE BLOCK (J/B) | Connector Type NSOREWAND | Section with | | | 3A 7 2A 1A | 11 | RA 7A 6A 5A 4A | ш |] | | P(| | BG . | | | | | | | r - | | | CPA | | Connector Name FUSE BLOCK (J/B) | NEGOTIAN CO | COLLIECTOL Type INSTOLWAYS | | | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 | 1 | 98 88 78 68 58 | | | | | No. Wire Signal Name [Specification] | | | | | | |

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| PARKING, LICENSE PI | ISE PLATE AND TAIL LAMPS | | Г | | | | | | ŀ | |
|-----------------------------------|---|----------------|----------------|---|----------------|--|----------|------------------------|----------|---------------------------------|
| Connector No. M33 | | Connector No. | Τ | M119 | + | + | | 143 | ٠, | COMBI SW OUTPUT 1 |
| Connector Name COMBINATION SWITCH | ON SWITCH | Connector Name | | BCM (BODY CONTROL MODULE) | 8 8 | GR KEYLESS ENIRY RECEIVER SIGNAL RR COMBISW INPITS | SIGNAL | 144 | ၁ – | COMBLSW OUTPULZ |
| Connector Type TH16FW-NH | | Connector Type | Т | NS16FW-CS | t | | | 146 | , g | COMBI SW OUTPUT 4 |
| | | | 1 | | 06 | CAN-L | | 150 | GR | DRIVER DOOR SW |
| | | | | | 91 | L CAN-H | | 151 | H | REAR WINDOW DEFOGGER RELAY CONT |
| | _ / <u>\</u> | | | ا اعالا | Н | LG KEY SLOT ILL | | | | |
| 4.3 | 7 3 / 1 5 6 | 2 | | 0 8 9 10 | 93 | V ON IND | | | | |
| | 5 F | | | 11 13 15 17 18 19 | 92 | BG ACC RELAY CONT | | Connector No. | lo. M151 | 51 |
| 7 8 | 8 9 10 11 12 13 14 | | | 1 | + | : A/T SHIFT SELE | SUPPLY | Connector Name | | WIRE TO WIRE |
|] | | | | | 33 | SHIFT P SASSENGER DOOR BEOLIEST SW | CT CIM | Connector Type M03EWLL | MOS | 3EW-I C |
| Terminal Color Of | | Terminal | Color Of | | ╀ | ╀ | SW | | 2 | |
| Wire | Signal Name [Specification] | No. | | Signal Name [Specification] | ╁ | BLO | Y CONT | Œ | | |
| а. | FR WASHER (-) | 4 | ۵ | INT ROOM LAMP PWR SUPPLY (BAT SAVE) | ┝ | ┞ | R SUPPLY | | | |
| | OUTPUT 4 | 2 | ^ | PASSENGER DOOR UNLOCK OUTPUT | 107 | LG COMBI SW INPUT 1 | | Ź | | _ |
| 3 BG | FR WASHER (+) | 7 | \ | STEP LAMP OUTPUT | L | R COMBI SW INPUT 4 | | | | . (|
| ъ О | IGN | œ | > | ALL DOOR, FUEL LID LOCK OUTPUT | 109 | Y COMBI SW INPUT 2 | | | | 3 2 |
| 2 L | OUTPUT 3 | 6 | g | DRIVER DOOR, FUEL LID UNLOCK OUTPUT | 110 | G HAZARD SW | | | | |
| 8 9 | GROUND | 10 | R | REAR DOOR UNLOCK OUTPUT | | | | | | |
| V 7 | INPUT 3 | 11 | œ | BAT (FUSE) | | | | Terminal Co | Color Of | 9 |
| 8 BG | OUTPUT 5 | 13 | В | GROUND | Connector No. | o. M123 | | ġ | Wire | oignal Ivanie [opecincation] |
| × 6 | INPUT 2 | 15 | ٨ | ACC IND | | | í | 1 | W | |
| 10 R | INPUT 4 | 17 | М | TURN SIGNAL RH (FRONT) | Connector Name | ame BCM (BODY CONTROL MODULE) | Î) | 2 | > | |
| F | INPUT 1 | 18 | BG | TURN SIGNAL LH (FRONT) | Connector Ty | Connector Type TH40FG-NH | | 3 | œ | |
| 12 P | OUTPUT 1 | 19 | SB | ROOM LAMP TIMER | (| | | | | |
| H | INPUT 5 | | | | E | | | | | |
| 14 G | OUTPUT 2 | | - | | Ě | [| | Connector No. | lo. M152 | 52 |
| | | Connector No. | | M122 | 2 | 11 81 811 11 121 121 121 | 110 112 | Connector Name | | WIRE TO WIRE |
| Connector No. M118 | | Connecto | Connector Name | BCM (BODY CONTROL MODULE) | | 1511S NENEW NEW 1312 HT NE 13813 | 133 | Connector Type | \top | M03MW-LC |
| 8 | E I I I I I I I I I I I I I I I I I I I | Connecto | Connector Type | TH40FB-NH | | | | 1 | 1 | |
| | CONTROL MODOLE) | 4 | | | | | | 修 | | |
| Connector Type M03FB-LC | | 厚 | | | la | Color Of Signal Name [Specification] | 7 | Ę | | |
| d) | | A P | | | + | 4 | | 2 | | _ |
| 医 | | = | 9 | 和部門部部8182888 | + | RAIL | ž | | | 0 3 |
| SH | Į (| | | 25 55 55 55 55 100 100 30 100 100 30 30 30 30 30 30 30 30 30 30 30 30 3 | + | | | | | 6 7 |
| | 2 | | | | 116 | BK STOP LAMP SW 1 | | | | |
| | 72 | | | | + | C ac | 800 | Terminal Co | Color Of | |
| |]] | Termina | Color Of | | ╀ | | | ė | Wire | Signal Name [Specification] |
| | | N | | Signal Name [Specification] | ┝ | | | - | 3 | 1 |
| Terminal Color Of | | 74 | SB | PASSENGER DOOR ANT- | ┞ | LG PASSENGER DOOR SW | > | 2 | > | |
| No. Wire Signe | olgnai ivame [opecinication] | 75 | BR | PASSENGER DOOR ANT+ | H | BG POWER WINDOW SW COMM | MM | 3 | ۳ | |
| 1 W | BAT (F/L) | 92 | ^ | DRIVER DOOR ANT- | 134 | GR LOCK IND | | | | |
| Υ | POWER WINDOW POWER SUPPLY (BAT) | 77 | ٦C | DRIVER DOOR ANT+ | 137 | B RECEIVER/SENSOR GND | 9 | | | |
| 3 BG POWER WIN | MDOW POWER SUPPLY (RAP) | 78 | > | ROOM ANT1- | 138 | Y SENSOR POWER SUPPLY | | | | |
| | | 79 | BR | ROOM ANT1+ | + | _ | | | | |
| | | 80 | GR | NATS ANT AMP. | 4 | SEC | TPCT | | | |
| | | 81 | W | NATS ANT AMP. | 142 | BG COMBI SW OUTPUT 5 | | | | |
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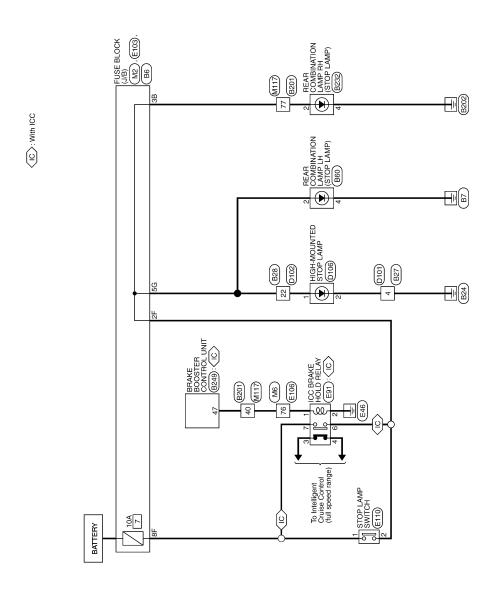
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STOP LAMP

Wiring Diagram - STOP LAMP -

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STOP LAMP



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|------|---------------|----------------------------|--------|-----------------|----|-----|----|-----|-------------------------|--|-------------------------------|------------|--------------|-----------------|------------|-----------------------------|-----------------|--------------|-----------------|------------|-----------------|--------------|------|----|---------------|-----------------|-----------------|-----------------------|-------------------|------------------|---------------------------------------|--|-----------------|---------|---------|--|----------|-----|--|--------------------------------|----------------------------------|----------|-----|-----|------|-----|----|----|-----|-------|-------|----|----|----|----|------|----------|
| | 9 | > | SHIELD | × | GR | SB | 7 | ٥ | 1 | 7 | ۵ | | - FG | > | 8 | 5 | Υ | > | W | : (| n | Æ | œ | ŋ | BG | SHIFLD | a | , - | ، د | _ | œ | 9 | M | 2 1 | SHIELD | * | œ | 9 | _ | SB | GR | <u>.</u> | 0 | 200 | a. | BR | BG | > | | s (| o | SB | ^ | Pl | × | HR H | <u> </u> |
| | 56 | 27 | 28 | 31 | 32 | 33 | 36 | 27 | ò | 38 | 39 | 3 | 40 | 40 | 44 | 4 | 41 | 42 | 42 | | 5 | 43 | 44 | 45 | 46 | ı | 27 | П | ÷ | 48 | 48 | 49 | 49 | Ę | 6 | 19 | 52 | 53 | 24 | 55 | 09 | 61 | 53 | 700 | 63 | 64 | 65 | 99 | 918 | /9 | 69 | 71 | 72 | 73 | 74 | 75 | 92 |
| | B60 | REAR COMBINATION I AMP I H | | TH04MW-NH | | | Ī | | | 1 2 3 4 | | | | | | Signal Name [Specification] | | | | | | | | | B201 | | WIRE TO WIRE | TI DOCUMENTO CONTRACT | BOI W-CO IO-1 MI+ | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - 00 00 00 00 00 00 00 00 00 00 00 00 00 | | | 3 3 | の 20 世界 20 | N 3 2 00 | | 91 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | olgital ivalle [opecification] | | | | | | | | | | | | | • | | | | |
| | | | П | ٦ | | | | | | | | | | | John Of | 5 5 5 | Wire | ď | ď | 2 | 9 | 9 | | | | Γ | | Т | ٦. | | | | | • | | | | | Color Of | Wire | O | œ | 0 | 40 | SB | BG | GR | M | : (| 9 | SHELD | ٦ | Ь | GR | PC | A | : > |
| | Connector No. | Connector Name | | Connector Type | Ç | | ŧ | 2 | | | | | | | Torminol | B B B | ō. | - | c | 1 | 9 | 4 | | | Connector No. | | Connector Name | | collisciol Type | ą | | ŧ | N. | | | | | | Terminal | ž | - | ٥ | ı c | , | 4 | 9 | 7 | œ | Ş | 2 | = | 50 | 21 | 22 | 23 | 24 | 25 |
| | No. B28 | Name WIRE TO WIRE | П | Type TH32MW-NH | | | | | 1 2 3 4 5 6 7 8 9 10 11 | 0 20 20 20 20 20 20 20 20 20 20 20 20 20 | 77 07 07 67 67 77 17 07 61 01 | | | | ال المالية | Signal Name [Specification] | Wire | ~ | a | | M. | SHIELD - | | | | SHIFLD | W | | | | | | | | 50 | | BG - | ۸ . | . · · | | | | | | BG - | BR. | | | | BG - | | | | | | | |
| | Connector No. | Connector Name | | Connector Type | 4 | | Į | 2 | | | | | | | Tomino | | No. | - | c | , (| Ť | 1 | 2 | 9 | 2 | α. | T | , ; | 2 ; | - | 12 | 13 | 14 | Ļ | 2 : | 91 | 17 | 18 | 19 | 50 | 21 | 22 | 3 | 2 3 | 54 | 52 | 56 | 27 | 1 8 | 35 | | | | | | | |
| ₹ | No. B6 | Name FLISE BLOCK (J/B) | (20) | Type NS12FBR-CS | | | | 999 | ŀ | - 150 160 100 - 150 160 100 - 150 160 160 160 160 160 160 160 160 160 16 | 1 | | | | | Signal Name [Specification] | | | W | : 6 | Y5 | . 97 | BG - | | | No R27 | 1 | Name WIRE TO WIRE | Т | Type MUSMW-GY-LC | | | | 7 0 0 7 | 1 2 3 4 | 7 2 7 | 0 100 | | | | Wire Signal Name [Specification] | | | | M | | BR | | | HELD. | | | | | | | |
| STOP | Connector No. | Connector Name | | Connector Type | (| I I | • | Ŷ | | | | | | | Torminol | G G G | No | 106 | 110 | 2 | 4 | 4 | 76 | | | Connector No | | Connector Name | | Connector Type | (| | Ī | ₹ \ | | | | | | Terminal C | No. Wire | ,- | · c | 4 0 | m | 4 | 9 | | - 0 | 20 | | | | | | | |

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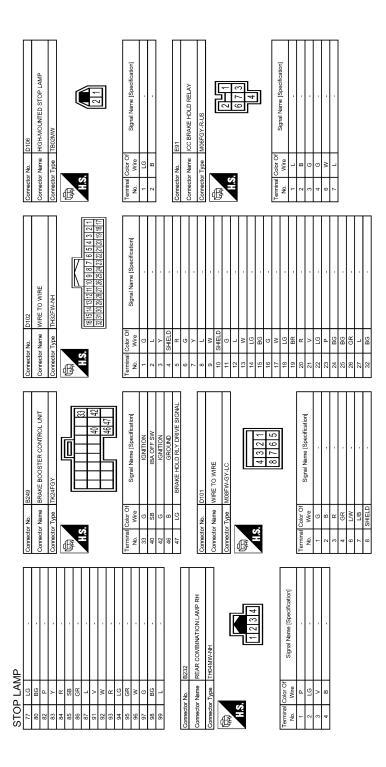
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| Ī | Connector No. M2 | | Connector Name FUSE BLOCK (J/B) | Connector Type NS10FWLCS | | Œ | | 48 38 18 | 40 | 96 99 97 98 96 | | | | Ferminal Color Of | No. Wire ognia i vane [opecinication] | 1B LG . | 38 P | 4B G . | F | | 78 L . | 8B R - | F | | | Connector No. M6 | Connector Name WIRE TO WIRE | The control regular to the control of the control o | Connector Type TH80MW-CS16-TM4 | | 2 E E E E E E E E E E E E E E E E E E E | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | erminal Color Of Signal Name (Specification) | No. Wire Signal Name (Specification) | 1 6 | | | 3 SB - [With Auto aircon seat] | 4 LG | 5 GR . | - M 9 | 7 6 | | H | ŀ |
|--------|--------------------|-----|---------------------------------|--------------------------|----|-----|---------------|----------------------|-------------|-----------------|--------|--------------|-----------------|-------------------|--|-----------------|-----------------|--------------|--------|--------|---------|--------|---------|------|------|--------------------|-------------------------------|--|--------------------------------|-----------------|--|---|---|---------------------------------------|----|-----|--|--------------------------------------|-----|--------|--------|---|-----------------------------|---------|-------|---------|----------------|-------|----|
| | - | | | | | | | | | | | | | - | | | | | | | | | | | • | | | , | তা | | E110 | STOP LAMP SWITCH | M04FW-LC | | | | 3 4 | | 71 |] | | 31 - 31 - 31 - 31 - 31 - 31 - 31 - 31 - | Signal Name [Specification] | , | | | | | |
| [| 70 SHIELD | 7.1 | + | F | ł | + | 4 2 | + | + | 98 . | + | 82 W | 83 LG | 84 GR | 85 G | 86 P | W 78 | F | H | 90 BR | H | 92 BR | 93 SB | 95 Y | M 96 | Н | 98 SHIELD | 100 Y | | | Connector No. | Connector Name | Connector Type | ı | (Z | ĺ | ĝ E | | | | | Ferminal Color Of | No. Wire | 1 L | 2 W | 3 G | \vdash | | |
|]] | _ | L | L T | L | L | T | L T | 1 T | 1 T | <u>Т</u> | _ | _ | | | | | <u>Ц</u> | | | L | <u></u> | | <u></u> | | | П | | | 7 | _ <u>[.</u> | <u>의</u> T | <u>ვ</u> | J∂ T | J Ľ | | ř ` | 1 | | | | | Tei | | <u></u> | | <u></u> | L |] | Г |
| | - | | | | | | | : ::Wil | - [with Col | - [without ICC] | | - [With ICC] | - [Without ICC] | | - [With ICC] | - [Without ICC] | - [Without ICC] | - [With ICC] | | | | | 1 | | 1 | | | | | | | | | | | | | | | | - | 1 | | , | | | | | |
| - | <u>«</u> | ŀ | φ | t | ł | + | $\frac{1}{1}$ | + | + | + | + | œ | > | 9 | - | 4 | | > | SHIELD | ڻ ص | ┝ | BG (| > | ۸ ۸ | 9g | Н | Н | \dashv | 7 | + | + | ی و | + | H | ۵. | SB | BR BR | В | | | | SB | L | SB | > | ۵ | 9 ₇ | - | |
| | 13 | 14 | 15 | 4 | 17 | - 4 | 9 | 2 6 | ¥ [8 | 2 | 21 | 22 | 22 | 23 | 24 | 54 | 25 | 25 | 28 | 28 | 58 | 30 | 32 | 33 | 35 | 37 | 38 | 38 | 4 | 42 | 43 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 55 | 53 | 54 | 55 | 29 | 9 | 61 | 62 | 63 | 99 | 98 |
| 1 | Connector No. E103 | _ | Connector Name FUSE BLOCK (J/B) | Connector Type NS16FW_CS | | Œ | | - S 6F 4F 1 3F 2F 1F | | 12 16 12 | | | | nal Color Of | No. Wire olgikal realite [obecilication] | 10F L - | 1F SB - | H | ┝ | H | 6F BG - | 8F L | 9F R | | | Connector No. E106 | Connector Name WIRE TO WIRE | The control of the co | Connector Type TH80FW-CS16-TM4 | | THE STATE OF THE S | 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | - マ マ マ マ マ マ マ マ マ マ マ マ マ マ マ マ マ マ マ | | | | Jal | olgiidi ivalie o | 1 6 | 2 BG - | 3 SB - | 4 LG - | H | - M 9 | 7 6 - | ^ 8 | H | H | H |

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| | | | Н | 71 SB . | 72 V . | 73 V | 74 LG . | 75 BR - | ⊦ | - FG | 80 R | | 83 BG - | Н | 85 SB - | - B 98 | 87 P . | 91 L . | 92 L | | | - N 96 | . 9 96 | 97 G - | | - 91 66 | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|-------|------|-----------|---------|---------------|------|---------|---------|-----------------|--------------|--------------|-----------------|-----------------|--------------|---------|--------------|-----------------|-----------------|------|--------|---------|--------------|-----------------|-------------|-----------------|-----------------|-------------------|-----------|-----------------|--------------|----|---------------|-----------------|-----------------------|-------------------|-----------------|---|-----------------|---|-------------------|--|-------|--------------|----------------------------------|----------|----------|------|---------------|------|
| | | | | - | | | | | | | | | | | | | | | | · | , | - [With ICC] | - [Without ICC] | [OOI HIM] - | - [Without ICC] | - [Without ICC] | [[() - [()] | | - [Without ICC] | - [With ICC] | | | - [Without ICC] | [[[] - [] [] [] | [ODI HIM] - | - [Without ICC] | - [With ICC] | - [Without ICC] | | | | | |] | | | | | |
| | В | W | W | SHIELD | ď | g | GR | > | Μ | œ | ۵ | ٦ | SHIELD | W | W | SB | ٦ | ۵ | ٦ | Ь | > | SB | Υ | ٨ | W | В | Ь | œ | 9 | ٦ | BG | SHIELD | В | 7 | Ь | œ | g | W | SHIELD | BG | GR | 9 | ٦ | Ь | PT | œ | SB | > | > |
| | 7 | 80 | 10 | 11 | 20 | 21 | 22 | 23 | 24 | 22 | 56 | 27 | 28 | 31 | 32 | 33 | 36 | 37 | 38 | 39 | 40 | 41 | 41 | 42 | 42 | 43 | 43 | 44 | 45 | 45 | 46 | 46 | 47 | 47 | 48 | 48 | 49 | 49 | 20 | 51 | 25 | 23 | 54 | 92 | 09 | 61 | 62 | 63 | 64 |
| | | | ITD | - 6 | | | | | | | | | , | | - | | | | | | | - | | | | - | - | TID | - | | | M117 | AMPE TO WIPE | wine to wine | e TH80MW-CS16-TM4 | | 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | \$ 20 00 00 00 00 00 00 00 00 00 00 00 00 | # 0 # 0 # 0 | (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | E E E | | · Of Signal Name [Specification] | | | | | |
| | 65 BG | ۸ 69 | 70 SHIELD | 71 BG | 72 GR | 73 W | 74 SB | 76 V | ۷ / 2 | 78 Y | 80 BG | 81 L | 82 W | 83 Y | 84 L | Н | 86 BR | 87 P | 88 \ | | 90 P | 91 R | 92 R | 93 GR | 95 G | M 96 | П | 98 SHIELD | 100 Y | | | Connector No. | Connector Name | IECTO INGIL | Connector Type | ŀ | | Ę | Ź E | | | | | lal | No. Wire | 1 GR | 2 BR | H | 4 SB |
| | 9 | 9 | 7 | 7 | 7 | _ | Ľ | _ | Ľ | _ | L | | L | | 8 | 80 | 80 | æ | ٣ | æ | ٥, | o, | 55 | 5 | 5 | 55 | o | တ | _ | | | S | 2 | 3 | 8 |] [| ß | _ | • | | | | - | Terr | z | Ш | | <u>П</u> | _ |
| /IP | • | | | • | | | | | - [Without ICC] | - [With ICC] | - [With ICC] | - [Without ICC] | - [Without ICC] | - [With ICC] | - | - [With ICC] | - [Without ICC] | - [Without ICC] | | • | | - | | - | | | - | | - | , | • | | | | | | | - | | • | | - | | | | | - | | |
| STOP LAMP | G | R | W | SHIELD | BR | - | а | g | GR | ^ | BR | ď | _ | Я | G | П | Ь | W | Υ | SHIELD | GR | > | BG | W | Υ | L | G | Я | G | _ | W | R | LG | GR | W | _ | Ь | BG | LG | SB | \ | BG | BR | SB | SB | SB | > | а | ۵ |
| اب | Н | Н | - | - | $\overline{}$ | ⊢ | - | - | - | - | - | - | - | - | - | _ | - | _ | | _ | _ | _ | - | - | - | - | - | - | Н | - | Н | - | \vdash | - | - | - | - | _ | | - | _ | Н | ${} \mapsto$ | \vdash | ч | \vdash | Н | \rightarrow | _ |

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BACK-UP LAMP

BACK-UP LAMP

Wiring Diagram - BACK-UP LAMP -

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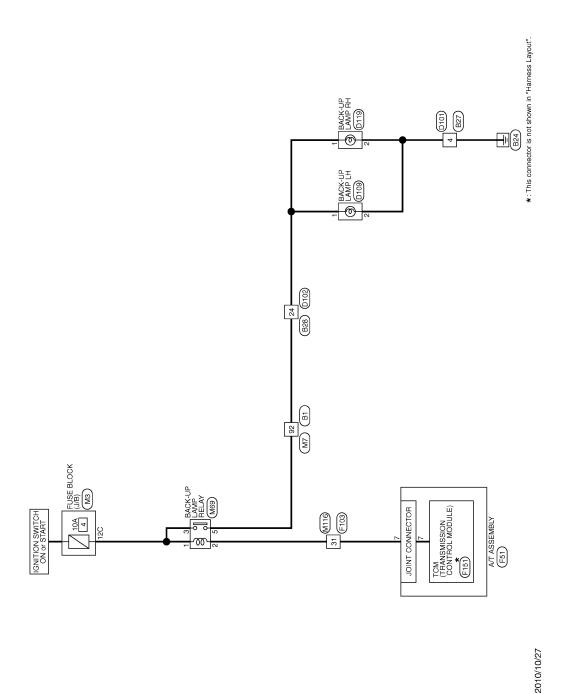
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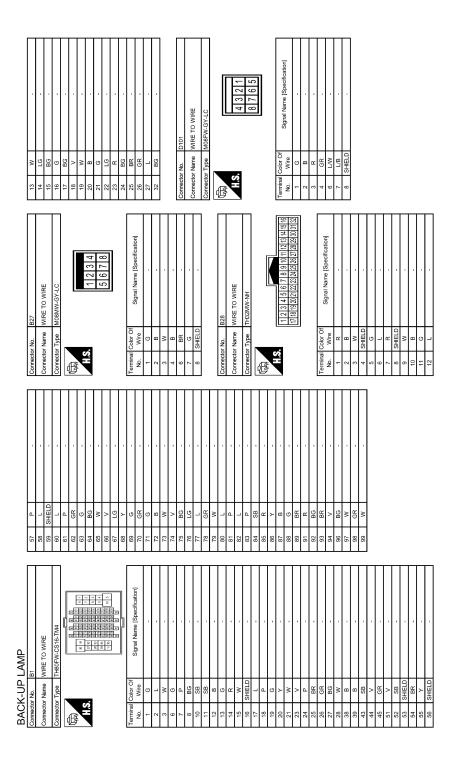
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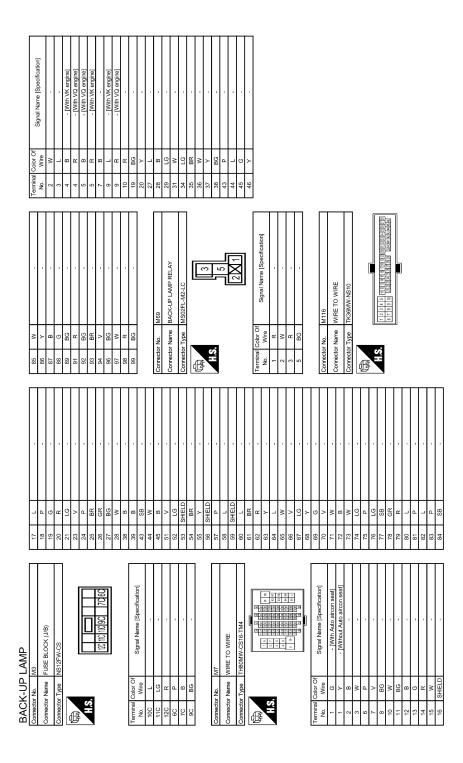
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ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

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 |
|----------------|---|----------------------------|
| FR WIPER HI | Other than front wiper switch HI | Off |
| FR WIFER HI | Front wiper switch HI | On |
| | Other than front wiper switch LO | Off |
| FR WIPER LOW | Front wiper switch LO | On |
| FR WASHER SW | Front washer switch OFF | Off |
| FR WASHER SW | Front washer switch ON | On |
| ED WIDED INT | Other than front wiper switch INT/AUTO | Off |
| FR WIPER INT | Front wiper switch INT/AUTO | On |
| FR WIPER STOP | Front wiper is not in STOP position | Off |
| -R WIPER STOP | Front wiper is in STOP position | On |
| NT VOLUME | Wiper volume dial is in a dial position 1 - 7 | Wiper volume dial position |
| RR WIPER ON | Other than rear wiper switch ON | Off |
| RR WIPER ON | Rear wiper switch ON | On |
| | Other than rear wiper switch INT | Off |
| RR WIPER INT | Rear wiper switch INT | On |
| | Rear washer switch OFF | Off |
| RR WASHER SW | Rear washer switch ON | On |
| | Rear wiper is in STOP position | Off |
| RR WIPER STOP | Rear wiper is not in STOP position | On |
| TUDNI CIONAL D | Other than turn signal switch RH | Off |
| TURN SIGNAL R | Turn signal switch RH | On |
| TUDNI CIONAL I | Other than turn signal switch LH | Off |
| TURN SIGNAL L | Turn signal switch LH | On |
| TALL LANAD OVA | Other than lighting switch 1ST and 2ND | Off |
| TAIL LAMP SW | Lighting switch 1ST or 2ND | On |
| II DE AM CW | Other than lighting switch HI | Off |
| HI BEAM SW | Lighting switch HI | On |
| HEAD LAMB OW 4 | Other than lighting switch 2ND | Off |
| HEAD LAMP SW 1 | Lighting switch 2ND | On |
| IEAD LAMB OW O | Other than lighting switch 2ND | Off |
| HEAD LAMP SW 2 | Lighting switch 2ND | On |
| DA COING OVA | Other than lighting switch PASS | Off |
| PASSING SW | Lighting switch PASS | On |
| ALITO LICUT OW | Other than lighting switch AUTO | Off |
| AUTO LIGHT SW | Lighting switch AUTO | On |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| Monitor Item | Condition | Value/Status |
|-----------------------|--|--------------|
| FR FOG SW | Front fog lamp switch OFF | Off |
| | Front fog lamp switch ON | On |
| RR FOG SW | NOTE: The item is indicated, but not monitored. | Off |
| DOOR SW-DR | Driver door closed | Off |
| DOOK SW-DK | 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 |
| OOD SW BK | Back door closed | Off |
| DOOR SW-BK | Back door opened | On |
| CDL LOCK SW | Other than power door lock switch LOCK | Off |
| | Power door lock switch LOCK | On |
| | Other than power door lock switch UNLOCK | Off |
| CDL UNLOCK SW | Power door lock switch UNLOCK | On |
| VEV CVI LIK CVV | Other than driver door key cylinder LOCK position | Off |
| EY CYL LK-SW | Driver door key cylinder LOCK position | On |
| (E) (O) (LIN O) () | Other than driver door key cylinder UNLOCK position | Off |
| (EY CYL UN-SW | Driver door key cylinder UNLOCK position | On |
| KEY CYL SW-TR | NOTE: The item is indicated, but not monitored. | Off |
| HAZARD SW | Hazard switch is OFF | Off |
| | Hazard switch is ON | On |
| REAR DEF SW | NOTE: The item is indicated, but not monitored. | Off |
| TR CANCEL SW | NOTE: The item is indicated, but not monitored. | Off |
| TR/BD OPEN SW | Back door opener switch OFF | Off |
| R/BD OPEN SW | While the back door opener switch is turned ON | On |
| FRNK/HAT MNTR | NOTE: The item is indicated, but not monitored. | Off |
| REVERSE SW | NOTE: The item is indicated, but not monitored. | Off |
| RKE-LOCK | LOCK button of the Intelligent Key is not pressed | Off |
| RRE-LOCK | LOCK button of the Intelligent Key is pressed | On |
| DE UNI OCK | UNLOCK button of the Intelligent Key is not pressed | Off |
| RKE-UNLOCK | UNLOCK button of the Intelligent Key is pressed | On |
| RKE-TR/BD | NOTE: The item is indicated, but not monitored. | Off |
| DKE DVIIC | PANIC button of the Intelligent Key is not pressed | Off |
| RKE-PANIC | PANIC button of the Intelligent Key is pressed | On |
| RKE-P/W OPEN | UNLOCK button of the Intelligent Key is not pressed | Off |
| | UNLOCK button of the Intelligent Key is pressed and held | On |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

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| Monitor Item | Condition | Value/Status |
|-------------------|--|--------------|
| RKE-MODE CHG | LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously | Off |
| | LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously | On |
| OPTICAL SENSOR | Bright outside of the vehicle | Close to 5 V |
| | Dark outside of the vehicle | Close to 0 V |
| REQ SW -DR | Driver door request switch is not pressed | Off |
| | Driver door request switch is pressed | On |
| REQ SW -AS | Passenger door request switch is not pressed | Off |
| | Passenger door request switch is pressed | On |
| REQ SW -RR | NOTE: The item is indicated, but not monitored. | Off |
| REQ SW -RL | NOTE: The item is indicated, but not monitored. | Off |
| REU SW. BD/ID | Back door request switch is not pressed | Off |
| REQ SW -BD/TR | Back door request switch is pressed | On |
| DITCH C/M | Push-button ignition switch (push switch) is not pressed | Off |
| PUSH SW | Push-button ignition switch (push switch) is pressed | On |
| IGN RLY2 -F/B | NOTE: The item is indicated, but not monitored. | Off |
| ACC RLY -F/B | NOTE: The item is indicated, but not monitored. | Off |
| CLUCH SW | NOTE: The item is indicated, but not monitored. | Off |
| BRAKE SW 1 | The brake pedal is depressed when No. 7 fuse is blown | Off |
| DRAKE SW I | The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal | On |
| BRAKE SW 2 | The brake pedal is not depressed | Off |
| BRANE SW Z | The brake pedal is depressed | On |
| DETE/CANCL SW | Selector lever in P position | Off |
| DETE/CANCL SW | Selector lever in any position other than P | On |
| SET DNI/NI SVA/ | Selector lever in any position other than P and N | Off |
| SFT PN/N SW | Selector lever in P or N position | On |
| S/L -LOCK | NOTE: The item is indicated but not monitored. | Off |
| 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 |
| UNLK SEN -DR | Driver door is unlocked | Off |
| ONER OEN -DR | Driver door is locked | On |
| PUSH SW -IPDM | Push-button ignition switch (push-switch) is not pressed | Off |
| - 03H 3VV -IPDIVI | Push-button ignition switch (push-switch) is pressed | On |
| ICN DIV1 E/D | Ignition switch in OFF or ACC position | Off |
| IGN RLY1 -F/B | Ignition switch in ON position | On |
| DETE SW -IPDM | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| OET DN IDDM | Selector lever in any position other than P and N | Off |
| SFT PN -IPDM | Selector lever in P or N position | On |

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| Monitor Item | Condition | Value/Status |
|----------------|--|--|
| SFT P -MET | Selector lever in any position other than P | Off |
| | Selector lever in P position | On |
| SET N. MET | Selector lever in any position other than N | Off |
| SFT N -MET | 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 speed- ometer reading |
| VEH SPEED 2 | While driving | Equivalent to speed- ometer reading |
| | Driver door is locked | LOCK |
| DOOR STAT-DR | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Driver door is unlocked | UNLOCK |
| | Passenger door is locked | LOCK |
| DOOR STAT-AS | Wait with selective UNLOCK operation (5 seconds) | READY |
| | Passenger door is unlocked | UNLOCK |
| ID OK FLAG | Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position) | Reset |
| | Ignition switch ON | Set |
| PRMT ENG STRT | The engine start is prohibited | Reset |
| FINITIENG SIKI | The engine start is permitted | Set |
| PRMT RKE STRT | NOTE: The item is indicated, but not monitored. | Reset |
| KEY SW -SLOT | The Intelligent Key is not inserted into key slot | Off |
| | The Intelligent Key is inserted into key slot | On |
| RKE OPE COUN1 | During the operation of the Intelligent Key | Operation frequency of the Intelligent Key |
| RKE OPE COUN2 | NOTE: The item is indicated, but not monitored. | _ |
| CONFRM ID ALL | The key ID that the key slot receives is not recognized by any key ID registered to BCM. | Yet |
| | The key ID that the key slot receives accords with any key ID registered to BCM. | Done |
| CONFIRM ID4 | The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM. | Yet |
| CONFIRM ID4 | The key ID that the key slot receives is recognized by the fourth key ID registered to BCM. | Done |
| CONEIDM ID3 | The key ID that the key slot receives is not recognized by the third key ID registered to BCM. | Yet |
| CONFIRM ID3 | The key ID that the key slot receives is recognized by the third key ID registered to BCM. | Done |

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| 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 |
| CONTINUEDZ | The key ID that the key slot receives is recognized by the second key ID registered to BCM. | Done |
| CONFIRM ID1 | The key ID that the key slot receives is not recognized by the first key ID registered to BCM. | Yet |
| CON INVITED | The key ID that the key slot receives is recognized by the first key ID registered to BCM. | Done |
| TP 4 | The ID of fourth Intelligent Key is not registered to BCM | Yet |
| 164 | The ID of fourth Intelligent Key is registered to BCM | Done |
| TP 3 | The ID of third Intelligent Key is not registered to BCM | Yet |
| IF 3 | The ID of third Intelligent Key is registered to BCM | Done |
| TP 2 | The ID of second Intelligent Key is not registered to BCM | Yet |
| IF Z | The ID of second Intelligent Key is registered to BCM | Done |
| TP 1 | The ID of first Intelligent Key is not registered to BCM | Yet |
| IF I | The ID of first Intelligent Key is registered to BCM | Done |

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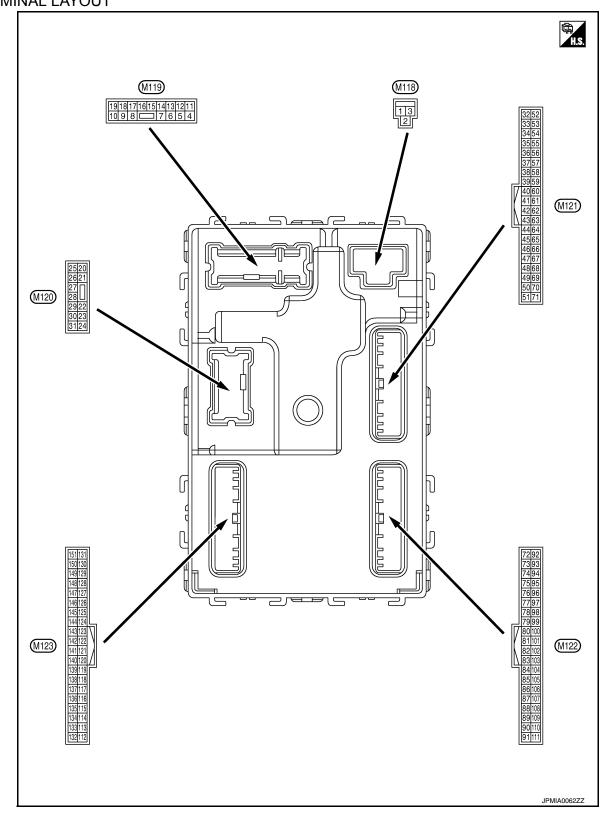
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TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS INFORMATION >

| | inal No. e color) | Description | ı | | 0 1111 | Value |
|-----------|----------------------|-----------------------------------|------------------|------------------------|---|---------------------------|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 1 (W) | Ground | Battery power supply | Input | Ignition switch OF | F | Battery voltage |
| 2 (Y) | Ground | P/W power supply (BAT) | Output | Ignition switch OF | F | 12 V |
| 3 (BG) | Ground | P/W power supply (IGN) | Output | Ignition switch ON | N. | 12 V |
| | | | | | p battery saver is activated. room lamp power supply) | 0 V |
| 4 (P) | Ground | Interior room lamp power supply | Output | ed. | battery saver is not activat- ior room lamp power sup- | 12 V |
| 5 | Ground | Passenger door UN- | Output | Passanger door | UNLOCK (Actuator is activated) | 12 V |
| (V) | Ground | LOCK | Output | utput Passenger door - | Other than UNLOCK (Actuator is not activated) | 0 V |
| 7 | Cround | Stan Jama central | Output | Stan Jama | ON | 0 V |
| (Y) | Ground | Step lamp control | Output | Step lamp | OFF | 12 V |
| 8 | Ground | All doors, fuel lid | Output | All doors, fuel lid | LOCK (Actuator is activated) | 12 V |
| (V) | | LOCK | 7 iii doore, | , | Other than LOCK (Actuator is not activated) | 0 V |
| 9 | Ground | Driver door, fuel lid | Output | Driver door, fuel | UNLOCK (Actuator is activated) | 12 V |
| (G) | Ground | UNLOCK | Output | lid | Other than UNLOCK (Actuator is not activated) | 0 V |
| 10 | Ground | Rear RH door and rear LH door UN- | Output | Rear RH door | UNLOCK (Actuator is activated) | 12 V |
| (BR) | Ground | LOCK | Output | and rear LH door | Other than UNLOCK (Actuator is not activated) | 0 V |
| 11 (R) | Ground | Battery power supply | Input | Ignition switch OF | F | Battery voltage |
| 13 (B) | Ground | Ground | _ | Ignition switch ON | N | 0 V |
| 15 (Y) | Ground | ACC indicator lamp | Output | Ignition switch | OFF (LOCK indicator is not illuminated) | Battery voltage |
| (1) | | | | | ACC or ON | 0 V |
| | | | | | Turn signal switch OFF | 0 V |
| 17 (W) | Ground | Turn signal RH (Front) | Output | Ignition switch ON | Turn signal switch RH | (V) 15 10 5 0 |
| 17 | Ground | | Output | | Turn signal switch OFF | 15 10 5 0 |

< ECU DIAGNOSIS INFORMATION >

| | nal No. | Description | | | | Value |
|------------|---------|----------------------------|------------------|--------------------------------------|--|--|
| (Wire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | Turn signal switch OFF | 0 V |
| 18 (BG) | Ground | Turn signal LH (Front) | Output | Ignition switch ON | Turn signal switch LH | 15 10 5 0 1 s PKID0926E 6.5 V |
| | | | | Other than under | condition | 5.0 V |
| 19 (SB) | Ground | Interior room lamp control | Output | Interior room la (Door is unlock) | mp timer is activated. | 0 V |
| | | | | | Turn signal switch OFF | 0 V |
| 20 (V) | Ground | Turn signal RH (Rear) | Output | Ignition switch ON | Turn signal switch RH | (V) 15 10 5 0 1 s PKID0926E 6.5 V |
| | | | | | Turn signal switch OFF | 0 V |
| 25 (G) | Ground | Turn signal LH (Rear) | Output | Ignition switch ON | Turn signal switch LH | (V) 15 10 5 0 1 s PKID0926E 6.5 V |
| 26 | 0 | Danassinas | 0 | Danning | OFF (Stopped) | 0 V |
| (P) | Ground | Rear wiper | Output | Rear wiper | ON (Operated) | 12 V |
| 34 | Ground | Luggage room anten- | Output | Ignition switch | When Intelligent Key is in the passenger compart- ment | (V) 15 10 5 0 1 s JMKIA0062GB |
| (SB) | | na (–) | • | OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB |

< ECU DIAGNOSIS INFORMATION >

| | Terminal No. Description (Wire color) | | Condition | | Value | |
|-----|---------------------------------------|----------------------|------------------|---|---|---|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 35 | Count | Luggage room anten- | 0.4.4 | Ignition switch | When Intelligent Key is in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0062GB |
| (V) | Ground | na (+) | Output | ŌFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 1 s JMKIA0063GB |
| 38 | | Back door antenna (- | Output | When the back door opener re- | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 JMKIA0062GB |
| (B) | Ground | | | | Output quest switch is operated with ignition switch OFF | When Intelligent Key is not in the antenna detection area |
| 39 | Ground | Back door antenna | Output | When the back door opener request switch is | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 JMKIA0062GB |
| (W) | Glound | (+) | Output | operated with ig- nition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0063GB |
| | | Ignition relay (IPDM | | | OFF or ACC | 12 V |

< ECU DIAGNOSIS INFORMATION >

| Count Coun | | nal No. | Description | | | | |
|---|------|---------|-------------------------|---------|------------------|----------------------|--------------------|
| Sarter relay control Output On | | 1 | Signal name | | | Condition | Value (Approx.) |
| CLG Ground Sarier relay control Cutput ON When selector lever is not in P or N position Pressed Pressed Not pressed Not pressed | 52 | 0 | Otanta a ralas a santas | Outroit | Ignition switch | | 12 V |
| Second S | (LG) | Ground | Starter relay control | Output | ON | | 0 V |
| Switch (Push switch) Ground Switch (Push switch) Ground Ground Ground Guest switch Ground Ground Ground Ground Guest Switch Ground Ground Ground Ground Ground Guest Switch Ground | 60 | | Push-button ignition | | | Pressed | 0 V |
| Ground Ground Back door opener request switch | | Ground | | Input | | Not pressed | 12 V |
| 61 (W) Ground Back door opener request switch 62 (L) Ground Intelligent Key warning buzzer (Engine room) 63 (BG) Ground Rear wiper stop position 64 (LG) Ground Back door switch 65 (BG) Ground Back door switch 66 (LG) Ground Back door opener switch 67 (P) Ground Back door opener switch 68 (P) Ground Back door opener switch 69 (P) Ground Back door opener switch 60 (P) Ground Back door opener switch 60 (P) Ground Back door opener switch 61 (P) Ground Back door opener switch 62 (V) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S | | | | | (11 1 1) | ON (Pressed) | 0 V |
| Ground Rear wiper stop position Rear wiper stop position Rear wiper stop position Rear wiper stop position Not in stop position Not in stop position OFF (Door close) ON (Door open) Pressed Ground Back door opener switch Rear wiper Not in stop position Not (C) 15 10 Not in stop position OFF (Door close) ON (Door open) Pressed (V) 15 10 Not pressed | | Ground | | Input | | OFF (Not pressed) | 15 |
| Ground Rear wiper stop position Rear wiper stop position Rear wiper stop position Rear wiper stop position Not in stop position Not in stop position OFF (Door close) ON (Door open) Pressed Ground Back door opener switch Rear wiper Not in stop position Not (C) 15 10 Not in stop position OFF (Door close) ON (Door open) Pressed (V) 15 10 Not pressed | | | Intelligent Kev warn- | | Intelligent Kev | Soundina | 0 V |
| 65 (BG) Ground Rear wiper stop position Rear wiper In stop position Not in stop position OFF (Door close) ON (Door open) Pressed 67 (P) Ground Back door opener switch Back door opener switch Input Back door opener switch Not pressed (V) 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | | Ground | ing buzzer (Engine | Output | warning buzzer | | 12 V |
| 66 (LG) Ground Back door switch Input Back door switch OFF (Door close) ON (Door open) Pressed (V) 15 10 5 10 5 10 5 10 5 10 5 10 5 10 5 | | Ground | | Input | Rear wiper | In stop position | 15 10 0 |
| (LG) Ground Back door switch Input Back door switch ON (Door open) Pressed Ground Back door opener switch Input Back door opener er switch Not pressed (V) 15 10 (V) 15 10 10 10 10 10 10 10 10 10 | | | | | | Not in stop position | 0 V |
| Ground Back door opener switch Input Back door opener switch Not pressed ON (Door open) Pressed (V) 15 10 10 10 10 10 10 10 | | Ground | Back door switch | Input | Back door switch | | 12 V |
| Ground Back door opener switch Input Back door opener switch Not pressed (V) 15 10 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (LG) | | Dack door switch | IIIput | | , , | 0 V |
| Ground Back door opener switch Input Back door opener er switch Not pressed 8 (V) 15 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | Pressed | 0 V |
| 10 5 | | Ground | | Input | | Not pressed | 10 |
| | | Ground | Rear RH door switch | Input | | | 10 5 |

< ECU DIAGNOSIS INFORMATION >

| | nal No. e color) | Description | | | Condition | Value |
|------------|--|---------------------|---|---|---|--|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 69 (R) | Ground | Rear LH door switch | Input | Rear LH door switch | OFF (Door close) | (V) ₁₅ 10 5 0 + 10ms JPMIA0594GB |
| | | | | | ON (Door open) | 8.5 - 9.0 V 0 V |
| | | | | | ON (Door open) | (V) |
| | | | | When the pas- | When Intelligent Key is in the antenna detection area | 15 10 5 0 |
| 74 (SB) | 74 SB) Ground Passenger door antenna (–) Output | senger door re- | | JMKIA0062GB | | |
| | | | nition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 | |
| | | | | | | JMKIA0063GB |
| | | | | | When Intelligent Key is in the antenna detection area | (V) 15 10 5 |
| 75 | 75 Ground Passenger door an-Output senger door request switch is | | | When the passenger door re- | arca | 1 s |
| | | | Output | operated with ig- nition switch | | (V) 15 |
| | | | When Intelligent Key is not in the antenna detection area | 10 5 0 | | |
| | | | | | | JMKIA0063GB |

| | inal No. e color) | Description | I | | | Value |
|------|----------------------|---------------------|------------------|---|--|---|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 76 | Ground | Driver door antenna | Output | When the driver door request | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB |
| (V) | (V) Ground (-) | (-) | Cutput | switch is operat- ed with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0063GB |
| 77 | Ground | Driver door antenna | Output | When the driver door request | When Intelligent Key is in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0062GB |
| (LG) | (-round | (+) | Output | switch is operat- ed with ignition switch OFF | When Intelligent Key is not in the antenna detection area | (V) 15 10 5 0 1 s JMKIA0063GB |
| 78 | Cround | Room antenna (–) | Output | Ignition switch | When Intelligent Key is in the passenger compart- ment | (V) 15 10 5 0 JMKIA0062GB |
| (Y) | Ground | (Instrument panel) | Output | OFF | When Intelligent Key is not in the passenger compartment | (V) 15 10 5 0 JMKIA0063GB |

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| Signal name Input Output Input Input | | nal No. | Description | | | | Value |
|--|------------|---------|-------------------|--------|-----------------|-------------------------------|----------------------------------|
| Ground G | | | Signal name | | | Condition | |
| Stround Continued Contin | 79 | | Room antenna (+) | | Ignition switch | the passenger compart- | 15 10 5 0 |
| Ground NATS antenna amp. Output Outpu | (BR) | Ground | | Output | | not in the passenger com- | 15 10 5 0 |
| Ground (W) Ground (W) Qutput (W) | 80 (GR) | Ground | NATS antenna amp. | | During waiting | while inserting the Intelli- | switch. Pointer of tester should |
| Ground Ground block (J/B)] control Output Ignition switch ON 12 V Remote keyless entry receiver communication Remote keyless entry receiver communication When operating either button on the Intelligent Key When operating either button on the Intelligent Key | | Ground | NATS antenna amp. | | During waiting | while inserting the Intelli- | switch. Pointer of tester should |
| Remote keyless entry receiver communication Remote keyless entry receiver communication Remote keyless entry receiver communication Unput/ Output When operating either button on the Intelligent Key When operating either button on the Intelligent Key | | Ground | | Output | Ignition switch | | |
| When operating either button on the Intelligent Key When operating either button on the Intelligent Key | | Ground | | | During waiting | | 15 10 5 0 |
| | (GR) | Ground | | | | either button on the Intelli- | 15 10 5 0 |

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< ECU DIAGNOSIS INFORMATION >

| | inal No. | Description | | | | Value |
|----------|----------|--------------------|------------------|-------------|---|---|
| + (VVire | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switches OFF (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0041GB |
| 87 | Ground | Combination switch | Input | Combination | Front fog lamp switch ON (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0037GB |
| (BR) | | INPUT 5 | | switch | Rear wiper switch ON (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V |
| | | | | | Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 6 Wiper volume dial 7 | (V) 15 10 5 0 2 ms JPMIA0040GB |

< ECU DIAGNOSIS INFORMATION >

| | inal No. | Description | | | | Value | А |
|-----------|----------|----------------------------|------------------|--------------------|--|---|-------------|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) | Α |
| | | | | | All switches OFF (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0041GB | B C D |
| | | | | | Lighting switch HI (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0036GB | E |
| 88 (V) | Ground | Combination switch INPUT 3 | Input | Combination switch | Lighting switch 2ND (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0037GB | G H |
| | | | | | Rear washer switch ON (Wiper volume dial 4) | (V) 15 10 5 0 JPMIA0039GB 1.3 V | J K |
| | | | | | Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 | (V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V | M |
| 90 (P) | Ground | CAN-L | Input/ Output | | _ | _ | 0 |
| 91 (L) | Ground | CAN-H | Input/ Output | | _ | _ | Р |

< ECU DIAGNOSIS INFORMATION >

| | nal No. | Description | | | | Value |
|-------------|------------------------|--|------------------|-------------------------------|---|---|
| + (Wire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | OFF | 12 V |
| 92 (LG) | Ground | Key slot illumination | Output | Key slot illumina- tion | Blinking | (V) 15 10 5 0 1 s JPMIA0015GB |
| | | | | | ON | 0 V |
| 93 (V) | Ground | ON indicator lamp | Output | Ignition switch | OFF (LOCK indicator is not illuminated) | Battery voltage |
| | , | | | ON or ACC | 0 V | |
| 95 | Ground | ACC relay control | Output | Ignition switch | OFF | 0 V |
| (BG) | | | | .g | ACC or ON | 12 V |
| 96 (GR) | Ground | A/T shift selector (Detention switch) power supply | Output | | - | 12 V |
| 99 | Cround | Selector lever P posi- | Input | Selector lever | P position | 0 V |
| (R) | (R) Ground tion switch | tion switch | трис | Selector level | Any position other than P | 12 V |
| | | | | | ON (Pressed) | 0 V |
| 100 (G) | Ground | Passenger door request switch | Input | Passenger door request switch | OFF (Not pressed) | (V) 15 10 5 0 10 ms JPMIA0016GB |
| | | | | | ON (Pressed) | 0 V |
| 101 (SB) | Ground | Driver door request switch | Input | Driver door request switch | OFF (Not pressed) | (V) 15 10 5 0 10 ms JPMIA0016GB |
| 102 | 0 | Blower fan motor re- | 0 | 190 | OFF or ACC | 0 V |
| (BG) | Ground | lay control | Output | Ignition switch | ON | 12 V |
| 103 (BR) | Ground | Remote keyless entry receiver power supply | Output | Ignition switch OF | F | 12 V |

< ECU DIAGNOSIS INFORMATION >

| Terminal No. Description (Wire color) | | | | 0 111 | Value | |
|---------------------------------------|---------|----------------------------|------------------|---|------------------------|---|
| + (vvire coi | - - | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switches OFF | (V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V |
| | | | | | Turn signal switch LH | (V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V |
| 107 (LG) Gr | round | Combination switch INPUT 1 | Input | Combination switch (Wiper volume dial 4) | Turn signal switch RH | (V) 15 10 5 0 JPMIA0036GB 1.3 V |
| | | | | | Front wiper switch LO | (V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V |
| | | | | | Front washer switch ON | (V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V |

< ECU DIAGNOSIS INFORMATION >

| | nal No. | Description | | | | Value |
|------------|---------|----------------------------|------------------|--------------------|--|---|
| + (vvire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switches OFF (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V |
| | | | | | Lighting switch AUTO (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V |
| 108 (R) | Ground | Combination switch INPUT 4 | Input | Combination switch | Lighting switch 1ST (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0036GB |
| | | | | | Rear wiper switch INT (Wiper volume dial 4) | (V) 15 10 5 0 2 ms JPMIA0040GB |
| | | | | | Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 5 Wiper volume dial 6 | (V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V |

< ECU DIAGNOSIS INFORMATION >

| | inal No. | Description | 1 | | | Value |
|------------|----------|----------------------------|------------------|---|---------------------------------|--|
| + | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switches OFF | (V) 15 10 5 0 2 ms JPMIA0041GB |
| | | | | | Lighting switch PASS | (V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V |
| 109 (Y) | Ground | Combination switch INPUT 2 | Input | Combination switch (Wiper volume dial 4) | Lighting switch 2ND | (V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V |
| | | | | | Front wiper switch INT/ AUTO | (V) 15 10 5 0 2 ms JPMIA0038GB |
| | | | | | Front wiper switch HI | (V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V |
| | | | | | ON | 0 V |
| 110 (G) | Ground | Hazard switch | Input | Hazard switch | OFF | (V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V |

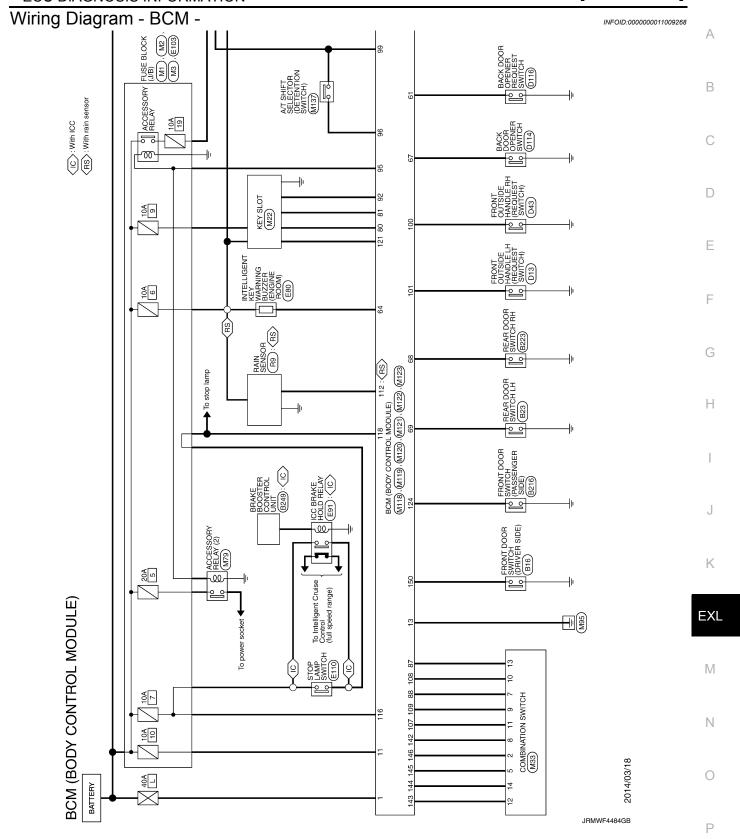
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|-------------|----------|--|------------------|--------------------------------|--|---------------------------------------|
| | nal No. | Description | | | | Value |
| + (VVire | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 112 (GR) | Ground | Rain sensor serial link | Input/ Output | Ignition switch ON | N | (V) 15 10 5 0 |
| 113 | Ground | Optical sensor | Input | Ignition switch | When bright outside of the vehicle | Close to 5 V |
| (P) | Gloulia | Optical serisor | Input | ON | When dark outside of the vehicle | Close to 0 V |
| 116 (BR) | Ground | Stop lamp switch 1 | Input | | _ | Battery voltage |
| | | Stop lamp switch 2 | | Stop lamp switch | OFF (Brake pedal is not depressed) | 0 V |
| 118 | Ground | (Without ICC) | - Input | Ctop idinip ownon | ON (Brake pedal is depressed) | Battery voltage |
| (P) | G. Gaile | Stop lamp switch 2 | | | OFF (Brake pedal is not debrake hold relay OFF | 0 V |
| | | (With ICC) | | | ON (Brake pedal is de- brake hold relay ON | Battery voltage |
| 119 (SB) | Ground | Front door lock assembly driver side (Unlock sensor) | Input | Driver door | LOCK status (Unlock sensor switch OFF) | (V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V |
| | | | | | UNLOCK status (Unlock switch sensor ON) | 0 V |
| 121 | Ground | Key slot switch | Input | When the Intellige slot | ent Key is inserted into key | 12 V |
| (BR) | Ground | rtoy olot omicin | mpac | When the Intellige key slot | ent Key is not inserted into | 0 V |
| 123 | Ground | IGN feedback | Input | Ignition switch | OFF or ACC | 0 V |
| (W) | | | | | ON | Battery voltage |
| 124 (LG) | Ground | Passenger door switch | Input | Passenger door switch | OFF (Door close) | (V) 15 10 5 0 JPMIA0594GB 8.5 - 9.0 V |
| | | | | | ON (Door open) | 0 V |
| | | | 1 | | . , , | |

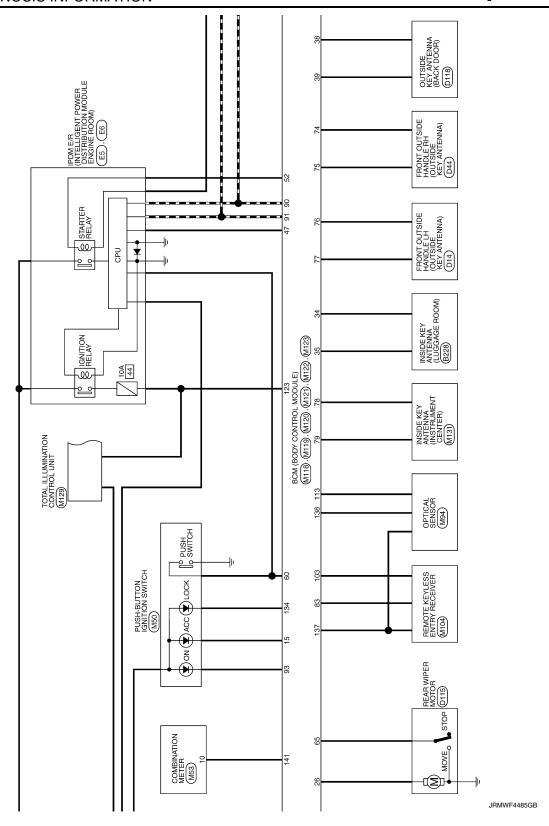
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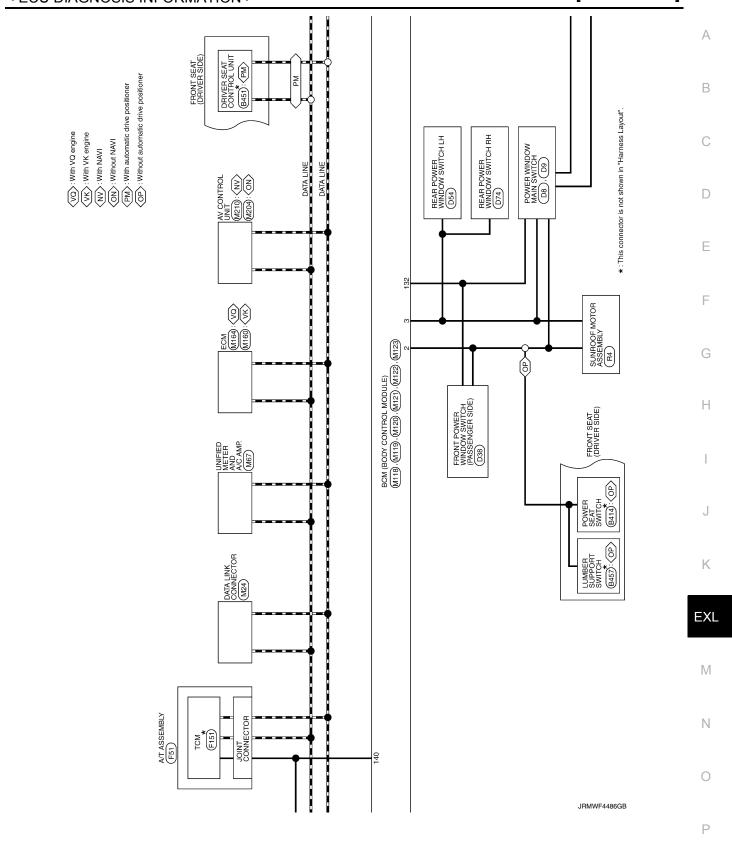
| | nal No. | Description | | | - | Value |
|-------------|---------|-----------------------------------|------------------|--------------------------|--|---|
| + | color) | Signal name | Input/ Output | | Condition | (Approx.) |
| 132 (BG) | Ground | Power window switch communication | Input/ Output | Ignition switch Of | N | (V) 15 10 5 0 10 ms JPMIA0013GB 10.2 V |
| | | | | Ignition switch Of | F or ACC | 12 V |
| 134 | 0 | LOCK in director leave | 0 | LOCK indicator | OFF | Battery voltage |
| (GR) | Ground | LOCK indicator lamp | Output | lamp | ON | 0 V |
| 137 (B) | Ground | Receiver and sensor ground | Input | Ignition switch Of | N | 0 V |
| 138 | Ground | Sensor power supply | Output | Ignition switch | OFF | 0 V |
| (Y) | Ground | Serisor power supply | Output | ignition switch | ACC or ON | 5.0 V |
| 140 | Ground | Selector lever P/N | Input | Selector lever | P or N position | 12 V |
| (R) | | position | | 2112300.13701 | Except P and N positions | 0 V |
| | | | | | ON | 0 V |
| 141 (G) | Ground | Security indicator lamp | Output | Security indicator lamp | Blinking | 15 10 5 0 |
| | | | | | OFF | 11.3 V 12 V |
| | | | | | All switches OFF | 0 V |
| | | | | | Lighting switch 1ST | |
| | | | | Combination | Lighting switch HI | (V) 15 |
| 142 | Ground | Combination switch | Output | switch | Lighting switch 2ND | 10 |
| (BG) | | OUTPUT 5 | - 50000 | (Wiper volume dial 4) | Turn signal switch RH | 0 JPMIA0031GB |
| | | | | | | 10.7 V |
| | | | | | All switches OFF (Wiper volume dial 4) | 0 V |
| | | | | | Front wiper switch HI (Wiper volume dial 4) | |
| 143 (P) | Ground | Combination switch OUTPUT 1 | Output | Combination switch | Rear wiper switch INT (Wiper volume dial 4) Any of the conditions below with all switches OFF Wiper volume dial 1 Wiper volume dial 2 Wiper volume dial 3 Wiper volume dial 6 | (V) 15 10 5 0 2 ms JPMIA0032GB |

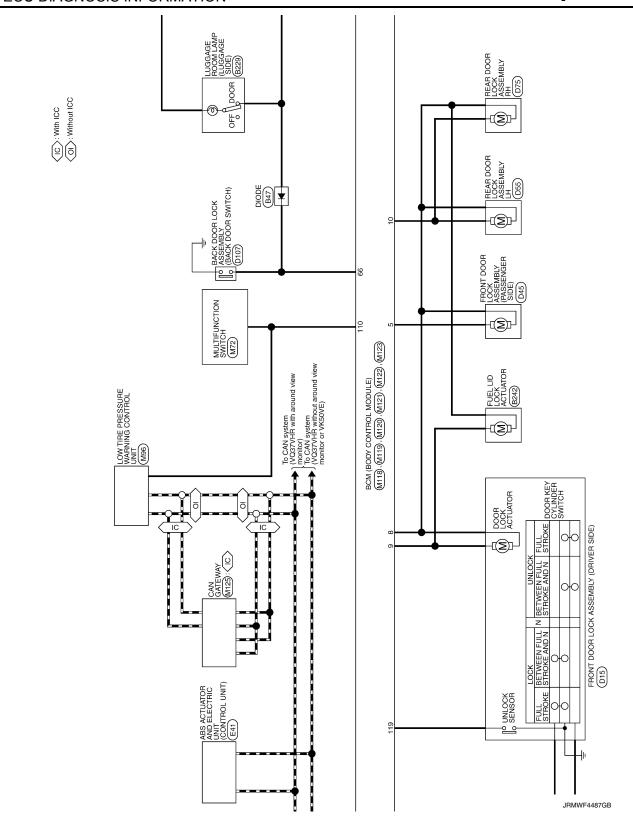
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| | inal No. | Description | | | | Value |
|-------------|----------|--------------------|------------------|--------------------------|--|---|
| + (vvire | e color) | Signal name | Input/ Output | | Condition | (Approx.) |
| | | | | | All switches OFF (Wiper volume dial 4) | 0 V |
| | | | | | Front washer switch ON (Wiper volume dial 4) | |
| 144 | | Combination switch | | Combination | Rear wiper switch ON (Wiper volume dial 4) | (V) 15 10 |
| (G) | Ground | OUTPUT 2 | Output | switch | Rear washer switch ON (Wiper volume dial 4) | 0 |
| | | | | | Any of the conditions below with all switches OFF • Wiper volume dial 1 • Wiper volume dial 5 • Wiper volume dial 6 | 2 ms JPMIA0033GB |
| | | | | | All switches OFF | 0 V |
| 145 | Ground | Combination switch | Output | Combination switch | Front wiper switch INT/ AUTO Front wiper switch LO | (V) 15 10 5 |
| (L) | | OUTPUT 3 | · | (Wiper volume dial 4) | Lighting switch AUTO | 0 |
| | | | | | | 10.7 V |
| | | | | | All switches OFF | 0 V |
| | | | | | Front fog lamp switch ON Lighting switch 2ND | (V) |
| 146 | | Combination switch | | Combination switch | Lighting switch PASS | 15 |
| (SB) | Ground | OUTPUT 4 | Output | (Wiper volume dial 4) | Turn signal switch LH | 5 0 2 ms 10.7 V |
| 150 (GR) | Ground | Driver door switch | Input | Driver door switch | OFF (Door close) | (V) 15 10 5 0 + 10ms JPMIA0594GB 8.5 - 9.0 V |
| | | | | | ON (Door open) | 0 V |
| 151 | Ground | Rear window defog- | Output | Rear window de- | Active | 0 V |
| (G) | | ger relay control | -1 | fogger | Not activated | Battery voltage |





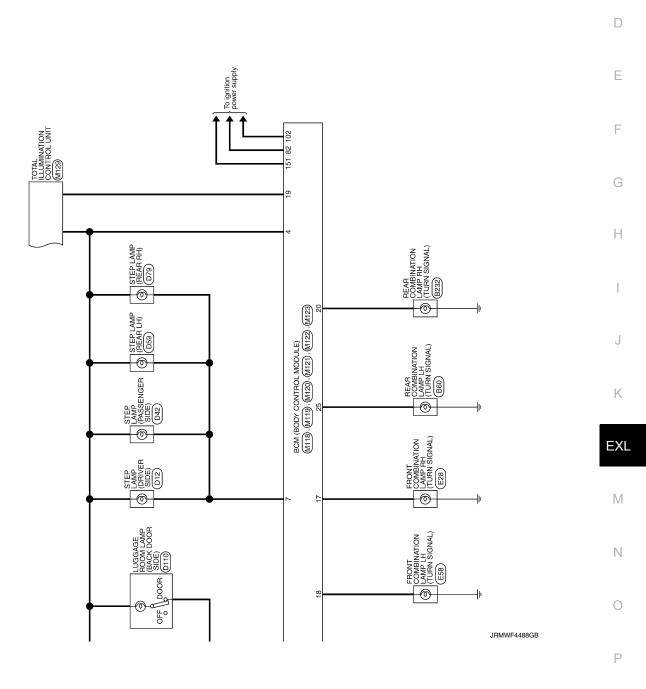


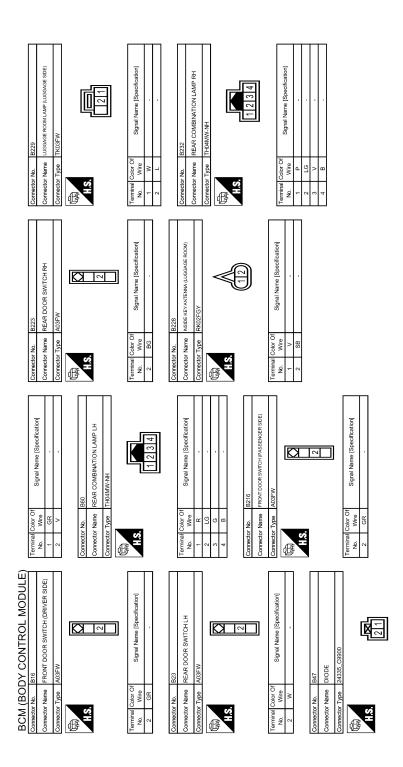


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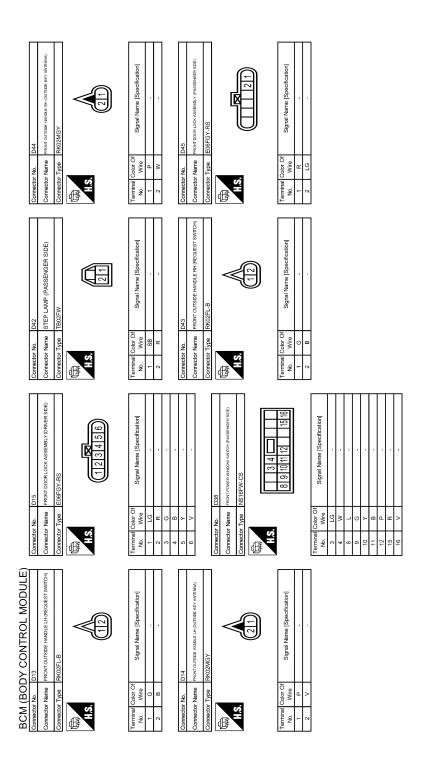
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| 5 SB | Cornector No. D9 | |
|--|--|-------------|
| 19 V | Cornector No. B457 | |
| Connector No. 8414 Connector Name POWER SEAT SWITCH Connector Type NSTOFW-CS 48 33 | Corrector No. Coursector No. Cours | |
| BCM (BODY CONTROL MODULE) Commetor Name FLEL LID LOCK ACTUATOR Commetor Type MOMPWLC ALS. | Terminal Color Ol | |
| | | JRMWF4490GB |



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| Corrector No. D107 Corrector Name BACK DOOR LOCK ASSEMBLY Corrector Type NS08FW.CS H.S. 1 1 2 4 5 6 7 8 | Terminal Color Of Signal Name Specification 1 | |
|---|--|--|
| Corrector No. D75 Corrector Name REAR DOOR LOCK ASSEMBLY RH Corrector Type E09FGY-RS H.S. | Terminal Color Of Signal Name Specification No. Wire G | |
| Corrector No. D59 Connector Name STEP LAMP (REAR LH) Connector Type TB02FW H.S. | Terminal Color Of Signal Name Specification No. Wire L | |
| BCM (BODY CONTROL MODULE) Cornector No. D54 Cornector Name REAR POWER WINDOW SWITCH LH Cornector Type INSOBPW-CS H.S. | Terminal Color Of No. Signal Name [Specification] No. Wire Signal Name [Specification] No. Wire | |

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| 45 G C Corrector No. E28 Corrector Name FRONT COMBINATION LAMP RH Corrector Type RSO4FB-PR Corrector Type Corrector | Terminal Color Of Signal Name [Specification] | ct let | Corrector Type BAAA2FB-A4624.1H A.S. RETTINE TO THE | Signal Nar | 6 BG DP RI. 7 BR DP FR 9 B DP FR 10 W DS FR 12 L VAC 14 P CANL 15 SHBLD AGND |
|--|--|---|--|-----------------------|--|
| Corrector No. E5 Corrector Name Evers several central corrector Name Everse Rock Corrector Type THZ0FW-CS12-M4-1V H.S. [16] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2 | Terminal Color Of Signal Name [Specification] No. Wire V V S L C C C C C C C C C | ++++++ | actor h | ⊘ . <u>□</u> □ | Nb. Wire Signal related (Special Candout) |
| Connector No. D116 Connector Name SWITCH Connector Type IT/02/MBR-P H.S. | Terminal Color Of Signal Name (Specification) No. Wire | Comedor No. D118 Comedor Name Ourside KEY ANTENNA (BACK DOOR) Comedor Type RN02FGY H.S. | Terminal Cobin Off Signal Name Specification No. Wife No. Wife 1 BR | | |
| BCM (BODY CONTROL MODULE) Corrector Name BACK DOOR OPENER SWITCH Corrector Type IntQ2MBR-P | Terminal Color Of Signal Name (Specification) No. Wire W 1 W 2 B | Cornector No. D115 Cornector Name REAR WIPER MOTOR Cornector Type CLOAFW-1V | 4 3 Terminal Color Of No. Wire Sprail Name (Specification) 2 G 2 G 3 B G 4 B 6 C C C C C C C C C | - | |

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| Connector No. F151 | Connector Name TCM | Connector Type SP10FG | 4 | | H.S. | - o | 5 | Terminal Color Of Signal Name (Constitution) | 0 | > | B BATTERY POWER | 3 R CANH | 0 | OFINE | <u> </u> | 8 BR CANL | Y STAF | 10 W/B GROUND | | Connector No M4 | П | | Connector Type NS06FW-M2 | | 34 | | 8A 7A 6A 5A 4A | | | nal | | 1A BG . | 2A G - | 3A L - | 4A R | H | + | 7A R | |
|---------------------------|-------------------------------------|----------------------------|---------|----------|------|-------------------------|------------|--|--|---|--------------------------|----------|---|--------|--------------|-----------|-----------------------------|---------------------------|-------|--------------------------|------|---|--|---|-------------------|---|---|-----|------------|------------|---------------------------|------------------------|-----------|-------------------------------------|-------------------------------------|-------------|---|-----------------------|-----------|
| Connector No. E110 | Connector Name STOP LAMP SWITCH | Connector Type M04FW-LC | Q | | H.S. | 1 2 | | Terminal Color Of Circuit Name (Consideration) | No. Wire | + | + | 3 O | ┨ | | Connector No | | Connector Name A/T ASSEMBLY | Connector Type RK10FG-DGY | · d | | H.S. | 긹 | 9 2 8 5 0 | | lal | No. Wire | 1 Y IGNITION POWER SUPPLY 2 RATTERVENMED SUDDI VARIANDIN RACKLIDI | : _ | 4 V K-LINE | 5 B GROUND | 6 Y IGNITION POWER SUPPLY | 7 R BACK-UP LAMP RELAY | 8 P CAN-L | 9 GR STARTER RELAY [With VQ engine] | 9 LG STARTER RELAY [With VK engine] | 10 B GROUND | | | |
| Connector No. E91 | Connector Name ICC BRAKE HOLD RELAY | Connector Type M06FGY-R-US | <u></u> | | H.S. | . 4 | . | Terminal Color Of Committee Constitution | No. Wire ognarie opconication | + | + | 3 3 9 | + | $^{+}$ | | | Connector No. E103 | | | Connector Type NS16FW-CS | | | 17 17 17 17 17 17 17 17 17 17 17 17 17 1 | [18] HI HI BF BF BF BF BF BF BF B | | | I erminal Color Of Signal Name [Specification] | t | 1F SB . | 2F W - | 3F Y - | 4F G . | 6F BG - | 8F L - | 9F R | | | | |
| BCM (BODY CONTROL MODULE) | 25 Y BUS-L | GR | 9 | 91 88 | 8 × | 35 L CANH 45 B RIS-H | | Connector No. E58 | Connector Name FRONT COMBINATION I AMP I H | | Connector Type RS04FB-PR | | | | | <u>~</u> | | |) lal | No. Wire | 2 6 | H | 4 BG - | | Connector No. E80 | Connector Name Intelligent key warving Buzzer (engine Room) | Connector Type RKO3EBB | 7 | | | | (1 3) | | | | lal | | 1 LG +BAT (VOL SMALL) | GR BUZZER |

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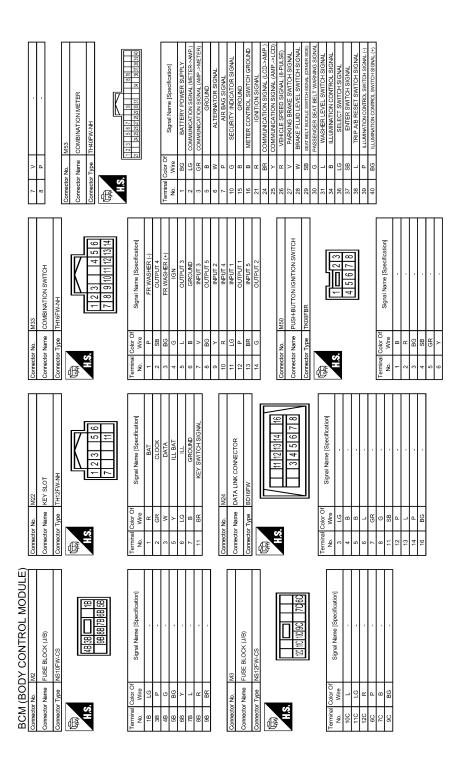
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| 25 W FFTUNER(GND) 28 P FLTUNER(GND) 30 L/G BCM HASHER 32 B GROLND CROLND CAROLND CAROLND | ε _Φ | | Ferminal Lodor Off Signal Name [Specification] Ferminal Lodor Off Signal Name [Specification] No. Wire GROUND 1 B GROUND 2 GR SIGNAL OUTPUT 4 BR BATTERY | Corrector No. M118 Corrector Name BCM (B Corrector Type M03FB. H.S. | |
|--|-----------------------|---|--|---|--|
| Corrector No. M94 Corrector Name OPTICAL SENSOR Corrector Type TK03FW | | Terminal Color Of Signal Name Specification No. Wire POWER 1 Y POWER 2 P OUTPUT 3 B GROUND | Cornector No. M96 Cornector Name Low The PRESSURE WARNAG COATROL UNIT Cornector Type THQZFW-NH | 12 3 4 5 6 7 8 9 10 | |
| Corrector No. MTZ Connector Name MULTIFUNCTION SWITCH Connector Type TH16FW-NH | H.S. 4 6 8 1416 | nal Color Of Wire B B V V R R R | S | Corrector No. M79 Corrector Name ACCESSORY RELAY (2) Corrector Type MSIGEL-M2-LC MSIGNAL-M2-LC Tammel Color Of I | Out of Wire Signal Name [Specification] 1 |
| BCM (BODY CONTROL MODULE) Connector No. M67 Connector Name UNIFIED METER AND A/C AMP. Connector Type TH22FW-NH | (1/22/43/44/45/44/77) | Signal Name [Specification] ACC POWER SUPPLY FUEL ELEC ENEXORS SIGNAL INTAKE SENSOR SIGNAL IN-VEHICLE SENSOR SIGNAL | AMBIENT SERVOR SIGNAL SUNLOND SERVOR SIGNAL SUNLOND POWER SUPPLY BATTERY POWER SUPPLY GROUND GROUND CARH | BRAKE FLUID LEVEL SWITCH SIGNAL FIGEL LENGER AGROUND INTAKE SENSOR GROUND INTAKE SENSOR GROUND AMBIENT SENSOR GROUND SUNLOAD SENSOR GROUND SUNLOAD SENSOR GROUND AMBIENT SENSOR GROUND AMBIENT SENSOR GROUND SUNLOAD SENSOR GROUND ACL LAN SIGNAL ECV SIGNAL FACH DOOR MUTOR POWER SUPPLY GROUND CANL | |
| BCM (BOL Connector No. Connector Name Connector Type | | lar Col | 45 P P P P P P P P P P P P P P P P P P P | 957 W 858 B B B B B B B B B B B B B B B B B B | |

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| BC | M (BC | BCM (BODY CONTROL MODULE) | | | | | | | | |
|---------|-------------------|--------------------------------|---------------|----------------|---|----------------|----------------|--|------------------|---------------------------------|
| Connec | Connector No. | M119 | Connector No. | | M121 | 80 | GR | NATS ANT AMP. | 141 G | SECURITY INDICATOR OUTPUT |
| Connec | Connector Name | BCM (BODY CONTROL MODULE) | Connect | Connector Name | BCM (BODY CONTROL MODILLE) | 81 | Α | NATS ANT AMP. | _ | COMBI SW OUTPUT 5 |
| | | П | | | (11000) | 82 | ۵ | IGN RELAY (F/B) CONT | 4 | COMBI SW OUTPUT 1 |
| Connec | Connector Type | NS16FW-CS | Connect | Connector Type | TH40FGY-NH | 83 | g. | KEYLESS ENTRY RECEIVER SIGNAL | 144 G | COMBI SW OUTPUT 2 |
| 9 | | | 9 | | | 87 | BR | COMBI SW INPUT 5 | 145 L | COMBI SW OUTPUT 3 |
| ß | _ | | ß | _ | | 88 | > | COMBI SW INPUT 3 | Н | COMBI SW OUTPUT 4 |
| Ŧ | | 1 | ŧ | | | 06 | а | CAN-L | 150 GR | DRIVER DOOR SW |
| 1 | ń | 4 5 7 6 8 9 10 | 4 | ج. | 10,00 | 91 | ٦ | CANH | 151 G | REAR WINDOW DEFOGGER RELAY CONT |
| | | 11 13 15 17 18 19 | | | 20 00 00 00 00 00 00 00 00 00 00 00 00 0 | 95 | PP | KEY SLOT ILL | | |
| | | | | | | 93 | > | ON IND | | |
| | | | | | | 92 | BG | ACC RELAY CONT | Connector No. | M125 |
| | | | | | | 96 | GR | A/T SHIFT SELECTOR POWER SUPPLY | Connector Name | Can GATEMAY |
| Termin | Terminal Color Of | Of Signal Name (Specification) | Termina | 0 | Signal Name (Specification) | 66 | œ | SHIFT P | | |
| ġ. | Wire | ┪ | ġ | Wire | Frompounded output music | 100 | ß | PASSENGER DOOR REQUEST SW | Connector Type | TH12FW-NH |
| 4 | ۵ | INT ROOM LAMP PV | 34 | SB | LUGGAGE ROOM ANT- | 101 | SB | DRIVER DOOR REQUEST SW | þ | |
| 2 | > | PASSENGER DOOR UNLOCK OUTPUT | 32 | > | LUGGAGE ROOM ANT+ | 102 | BG | BLOWER FAN MOTOR RELAY CONT | 厚 | |
| 7 | > | STEP LAMP OUTPUT | 38 | В | BACK DOOR ANT- | 103 | æ | KEYLESS ENTRY RECEIVER POWER SUPPLY | Ę | _[|
| 80 | > | | 38 | × | BACK DOOR ANT+ | 107 | 9 | COMBI SW INPUT 1 | į | 1 3 4 5 6 |
| 6 | Ø | DRIV | 47 | ≻ | IGN RELAY (IPDM E/R) CONT | 108 | œ | COMBI SW INPUT 4 | | ۶ ۲ |
| 10 | Ж | REAR DO | 25 | ГG | STARTER RELAY CONT | 109 | > | COMBI SW INPUT 2 | | 7 9 10 11 12 |
| 11 | ď | BAT (FUSE) | 9 | SB | ENG_START_SW | 110 | O | HAZARD SW | | |
| 13 | В | GROUND | 19 | W | TRUNK_REQUEST_SW | | | | | |
| 15 | ٨ | ACC IND | 64 | 7 | I-KEY WARN BUZZER (ENG ROOM) | | | | Terminal Color O | L |
| 17 | > | TURN SIGNAL RH (FRONT) | 65 | BG | REAR WIPER STOP POSITION | Connector No. | or No. | M123 | No. Wire | Signal Name [Specification] |
| 18 | BG | F | 99 | PT | BACK DOOR SW | | | | 1 | CAN-H |
| 19 | SB | ROOM LAMP TIMER | 29 | Ь | BACK DOOR OPENER SW | Connecto | Connector Name | BCM (BODY CONTROL MODULE) | 3 GR | BATTERY |
| | | | 89 | BR | REAR RH DOOR SW | Connector Type | or Type | TH40FG-NH | 4 | CAN-H |
| | | | 69 | Я | REAR LH DOOR SW | 4 | | | 5 B | GROUND |
| Connec | Connector No. | M120 | | | | | | | 9 9 | CAN-H |
| Journal | Coppector Name | G II IGOM LOGENOO YOOM WOO | | | | ŧ | | | 7 P | CANL |
| 500 | an i | | Connector No. | | M122 | 2 E | | Con (201) Con (2 | 97 6 | IGNITION |
| Connec | Connector Type | NS12FW-CS | Connect | Connector Name | BCM (BODY CONTROL MODILLE) | | | 21 A1 B1 | 10 P | CANL |
| 4 | | | | | Com (con) | | | Fig. 1001 100 1001 100 100 100 100 100 100 | 11 B | GROUND |
| 厚 | _ | | Connect | Connector Type | TH40FB-NH | | | | 12 P | CAN-L |
| | ď | | þ | | | | - [3 | | | |
| | 3 | 600 | 车 | | | E G | Wir. | Signal Name [Specification] | | |
| | | 07(27 | Y | · | 7 | 112 | e e | RAIN SENSOR SERIAL LINK | | |
| | | | | | 9190 88 67 83 82 81 80 79 78 77 78 75 74 | 113 | á | OPLICAL SENSOR | | |
| | | | | | 110[10][10][10] 110[10][10][29] 26[35] 53[50] | 116 | . 8 | STOP LAMP SW 1 | | |
| Termin | Terminal Color Of | | | | | 118 | ۵ | STOP LAMP SW 2 | | |
| Š | Wire | Signal Name [Specification] | | | | 119 | SB | DR DOOR UNLOCK SENSOR | | |
| 20 | > | TURN SIGNAL RH (REAR) | Terminal | 0 | Constitution Of section (O | 121 | H | KEY SLOT SW | | |
| 25 | 9 | TURN SIGN | Ŋ. | Wire | ognal value [opeomoanorij | 123 | Μ | IGN F/B | | |
| 26 | Ь | REAR WIPER OUTPUT | 74 | SB | PASSENGER DOOR ANT- | 124 | PI | PASSENGER DOOR SW | | |
| | | | 75 | BR | PASSENGER DOOR ANT+ | 132 | BG | POWER WINDOW SW COMM | | |
| | | | 9/ | > | DRIVER DOOR ANT- | 134 | GR | LOCK IND | | |
| | | | 77 | Pl | DRIVER DOOR ANT+ | 137 | В | RECEIVER/SENSOR GND | | |
| | | | 78 | > | ROOM ANT1- | 138 | > | SENSOR POWER SUPPLY | | |
| | | | 79 | BR | ROOM ANT1+ | 140 | ď | SHIFT N/P | | |

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| BCM (B | BOI 5 | BCM (BODY CONTROL MODULE) | Connector No. | . M131 | | Connector No. | M160 | | | Connector No. | lo. M164 | 164 | _ |
|-----------------|-------------------------------|--|--------------------|--|------------|-------------------------------|--------------|--|--------|-------------------------------|-----------------|--|---|
| onnecto | ν Name | Connector Name TOTAL ILLUMINATION CONTROL UNIT | Connector Name | me NSIDE KEY ANTENNA (INSTRUMENT CENTER) | NT CENTER) | Connector Name | De ECM | | 0 | Connector Name | lame ECM | W | |
| Connector Type | | TH40FW-NH | Connector Type | pe RK02MGY | | Connector Type | | RH24FGY-RZ8-R-LH-Z | | Connector Type | | RH24FGY-RZ8-R-LH-Z | |
| Æ.S. | | | H.S. | | | H.S. | | 223 1158 1151 115 115 115 125 115 115 115 115 11 | | 母 S:H | | 25 124 174 172 186 109 109 109 109 109 109 109 109 109 109 | |
| | | | | | | | | | | | | | |
| Terminal No. | Terminal Color Of No. Wire | f Signal Name [Specification] | Terminal Co No. | Color Of Signal Name [Specification] | cation] | Terminal Color Oi No. Wire | Jo | Signal Name [Specification] | | Ferminal Color Of No. Wire | olor Of Wire | Signal Name [Specification] | |
| 3 | > | DDL2 | - | BR - | | 97 R | L | ENGINE SPEED SIGNAL OUTPUT | PUT | 97 | Я, | ACCELERATOR PEDAL POSITION SENSOR 1 | |
| 4 | 1 | TAIL LAMP SIGNAL | 2 | ٠ . | | 9 66 | | SENSOR POWER SUPPLY | | 86 | P vc | ACCELERATOR PEDAL POSITION SENSOR 2 [Without NAVI] | |
| 5 | ^ | ACC SIGNAL | | | | 100 L | | SENSOR POWER SUPPLY | | 98 | Y | ACCELERATOR PEDAL POSITION SENSOR 2 [With NAVI] | |
| 9 | a. | BAT SAVER SIGNAL | | | | + | _ | CAN COMMUNICATION LINE | _ | 66 | o o | SENSOR POWER SUPPLY [With NAVI] | |
| _ | 3 | IGN SIGNAL | Connector No. | . M137 | | + | + | ASCD/ICC STEERING SWITCH | 7 7 | 66 | 1 | SENSOR POWER SUPPLY [Without NAVI] | |
| 80 | 9 | DOOR SW (AS) | Connector Name | me AT SHIFT SELECTOR | | 10t | $^{+}$ | ACCELERATOR PEDAL POSITION SENSOR | ISOR 1 | 100 | × 8 | SENSOR GROUND | |
| D 5 | S | MOOD I AMP (EB ABMBEST BH) | Commonder Time | THYSEM NIL | | 105 | 1 | CAN COMMUNICATION LINE | | 101 | 8 6 | ASCU/ICC STEEKING SWITCH | |
| 1 | 3 > | MOOD LAMP (RR ARMREST RH) | ion land | | | 108 P | + | ACCELERATOR PEDAL POSITION SENSOR 2 | 4SOR 2 | 103 | T | SENSOR POWER SUPPLY [Without NAVI] | |
| 12 | ۵ | MAP LAMP (AS) | Œ | | _ | 110 P | H | STOP LAMP SWITCH | | 103 | Г | SENSOR POWER SUPPLY [With NAVI] | |
| 13 | 9 | PERSONAL LAMP (LH) | \ \ | / \ \ | ٦ | 111 V | | SENSOR GROUND | | 104 | BR | SENSOR GROUND [With NAVI] | |
| 14 | ч | PERSONAL LAMP (RH) | į | 10315 | <u> </u> | 112 LG | Н | FUEL PUMP CONTROL MODULE (FPCM) CHECK | CHECK | 104 | GR | SENSOR GROUND [Without NAVI] | |
| 16 | GR | FOOT LAMP (RH) | | F | <u> </u> | 4 | ~ | DATA LINK CONNECTOR | | 105 | _ | REFRIGERANT PRESSURE SENSOR | |
| 17 | PIG | HSPL ILLUMINATIONS | | 7 8 9 10 11 | | 4 | 4 | SENSOR GROUND | 1 | 106 | + | FUEL TANK TEMPERATURE SENSOR | |
| 18 | _ | MAP LAMP (DR) | | | ī | 116 147 | + | TRANSMISSION RANGE SWITCH | 된. | 107 | BG > | SENSOR POWER SUPPLY | |
| 20 2 | ۲ > | AMBIENCE I AMP | Terminal Co | Color Of | | + | + | POWER SUIPPLY FOR FCM (BACK-LIP) | - K-1 | 9 5 | > (| PNP SIGNAL | |
| 21 | ď | BAT POWER SUPPLY | | Wire Signal Name [Specification] | cation] | L | t | SENSOR GROUND | | 110 | œ | ENGINE SPEED OUTPUT SIGNAL | |
| 23 | В | GROUND | - | . · | | 120 W | H | FUEL TANK TEMPERATURE SENSOR | NSOR | 112 | H | SENSOR GROUND (WITH EVAP CONTROL: SYSTEM PRESSURE SENSOR) | |
| 24 | В | ILL CONT INPUT | 2 | - ^ | | 121 GR | | POWER SUPPLY FOR ECM | - V | 112 | W | SENSOR GROUND (WINDLE BY AP CONTROL, SYSTEM PRESSURE SENSOR) | |
| 25 | BR | DOOR SW (RR) | е | | | Н | П | ECM GROUND | | 113 | ۵ | CAN COMMUNICATION LINE | |
| 56 | H | MAP LAMP SW (DOOR) | 4 | | | - | ┪ | FUEL PUMP CONTROL MODULE (FPCM) | (FPCM) | 114 | _ | CAN COMMUNICATION LINE | |
| 27 | œ | MAP LAMP SW (ALL ON) | 2 | | | 128 B | \downarrow | ECM GROUND | 7 | 117 | ┪ | DATA LINK CONNECTOR | |
| 28 | SB | ROOM LAMP TIMER | 7 | BG . | | | | | | 121 | LG EV | EVAP CANISTER VENT CONTROL VALVE | |
| 59 | GR | DOOR SW (DR) | 8 | SB . | | | | | | 122 | ۵ | STOP LAMP SWITCH | |
| 30 | PI | MOOD LAMP (FR ARMREST LH) | \dashv | | | | | | | 123 | В | ECM GROUND | |
| 31 | BG | MOOD LAMP (RR ARMREST LH) | 10 | GR - | | | | | | 124 | В | ECM GROUND | |
| 33 | > | HSPL POWER SUPPLY 3 | 1 | ۳. | | | | | | 125 | GR. | POWER SUPPLY FOR ECM | |
| 34 | ď | HSPL POWER SUPPLY 2 | | | | | | | | 126 | BR | ASCD/ICC BRAKE SWITCH | |
| 32 | > | HSPL POWER SUPPLY 1 | | | | | | | | 127 | <u></u> | ECM GROUND | |
| 36 | _ | FOOT LAMP (LH) | | | | | | | | 128 | В | ECM GROUND | |
| gg 9 | B 5 | | | | | | | | | | | | |
| 40 | BG | PUDDLE LAMP (LH) | | | | | | | | | | | |

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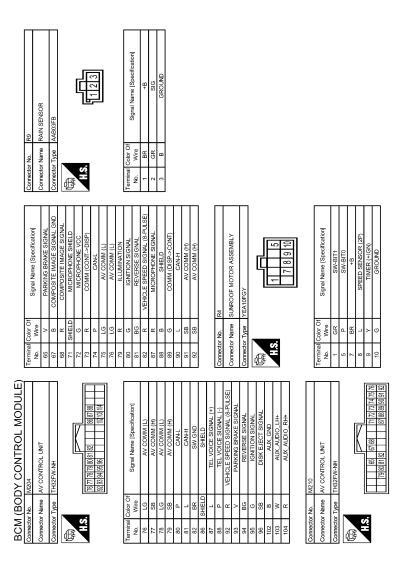
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Fail-safe

FAIL-SAFE CONTROL BY DTC BCM performs fail-safe control when any DTC are detected.

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| 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 |
| B2560: STARTER CONT RELAY | Inhibit engine cranking | 500 ms after the following CAN signal communication status becomes consistent Starter control relay signal Starter relay status signal |
| B2608: STARTER RELAY | Inhibit engine cranking | 500 ms after the following signal communication status becomes consistent • Starter relay control signal • Starter relay status signal (CAN) |
| B260A: IGNITION RELAY | Inhibit engine cranking | 500 ms after the following conditions are fulfilled IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal) |
| B260F: ENG STATE SIG LOST | Maintains the power supply position attained at the time of DTC detection | When any of the following conditions are fulfilled • Power position changes to ACC • Receives engine status signal (CAN) |
| B2617: STARTER RELAY CIRC | Inhibit engine cranking | 1 second after the starter relay control inside BCM becomes normal |
| B2618: BCM | Inhibit engine cranking | 1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal |
| B261E: VEHICLE TYPE | Inhibit engine cranking | BCM initialization |

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

REAR WIPER MOTOR PROTECTION

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

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

Condition of cancellation

- 1. More than 1 minute is passed after the rear wiper stops.
- Turn rear wiper switch OFF.
- Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

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

| Priority | DTC |
|----------|--|
| 1 | B2562: LOW VOLTAGE |
| 2 | U1000: CAN COMM U1010: CONTROL UNIT(CAN) |

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< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| Priority | DTC |
|----------|---|
| 3 | B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2195: ANTI SCANNING |
| 4 | B2553: IGNITION RELAY B2555: STOP LAMP B2556: PUSH-BTN IGN SW B2567: VEHICLE SPEED B2560: STARTER CONT RELAY B2601: SHIFT POSITION B2602: SHIFT POSITION B2603: SHIFT POSITION B2603: SHIFT POSI STATUS B2604: PNP/CLUTCH SW B2605: PNP/CLUTCH SW B2605: STARTER RELAY B2608: STARTER RELAY B2608: IGNITION RELAY B2607: ENG STATE SIG LOST B2614: BCM B2615: BCM B2616: BCM B2617: BCM B2618: BCM B2618: BCM B2618: BCM B2618: WEHICLE TYPE B2628: KEY REGISTRATION U0415: VEHICLE SPEED SIG |
| 5 | B2621: INSIDE ANTENNA B2623: INSIDE ANTENNA |
| 6 | B26E7: TPMS CAN COMM |

DTC Index

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 <u>EXL-33, "COM-MON ITEM"</u>.

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warn- ing lamp ON | Reference |
|--|-----------|---|--------------------------------------|---------------|
| No DTC is detected. Further testing may be required. | _ | _ | _ | _ |
| U1000: CAN COMM | _ | _ | _ | BCS-39 |
| U1010: CONTROL UNIT(CAN) | _ | _ | _ | BCS-40 |
| U0415: VEHICLE SPEED SIG | _ | _ | _ | BCS-41 |
| B2190: NATS ANTENNA AMP | × | _ | _ | <u>SEC-47</u> |
| B2191: DIFFERENCE OF KEY | × | _ | _ | <u>SEC-50</u> |
| B2192: ID DISCORD BCM-ECM | × | _ | _ | <u>SEC-51</u> |
| B2193: CHAIN OF BCM-ECM | × | _ | _ | <u>SEC-53</u> |
| B2195: ANTI SCANNING | × | _ | _ | <u>SEC-54</u> |
| B2553: IGNITION RELAY | _ | × | _ | PCS-53 |
| B2555: STOP LAMP | _ | × | _ | <u>SEC-55</u> |

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

| CONSULT display | Fail-safe | Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition | Intelligent Key warn- ing lamp ON | Reference | А |
|---------------------------|-----------|---|--------------------------------------|----------------|----------|
| B2556: PUSH-BTN IGN SW | _ | × | × | <u>SEC-57</u> | В |
| B2557: VEHICLE SPEED | × | × | × | <u>SEC-59</u> | _ |
| B2560: STARTER CONT RELAY | × | × | × | <u>SEC-60</u> | _ |
| B2562: LOW VOLTAGE | _ | × | _ | BCS-42 | С |
| B2601: SHIFT POSITION | × | × | × | <u>SEC-61</u> | _ |
| B2602: SHIFT POSITION | × | × | × | <u>SEC-64</u> | D |
| B2603: SHIFT POSI STATUS | × | × | × | <u>SEC-66</u> | = |
| B2604: PNP/CLUTCH SW | × | × | × | <u>SEC-69</u> | _ |
| B2605: PNP/CLUTCH SW | × | × | × | <u>SEC-71</u> | Е |
| B2608: STARTER RELAY | × | × | × | <u>SEC-73</u> | = |
| B260A: IGNITION RELAY | × | × | × | PCS-55 | - - F |
| B260F: ENG STATE SIG LOST | × | × | × | <u>SEC-75</u> | - 1 |
| B2614: BCM | _ | × | × | PCS-57 | _ |
| B2615: BCM | _ | × | × | PCS-59 | G |
| B2616: BCM | _ | × | × | PCS-61 | = |
| B2617: BCM | × | × | × | <u>SEC-77</u> | - - Н |
| B2618: BCM | × | × | × | PCS-63 | - 11 |
| B261A: PUSH-BTN IGN SW | _ | × | × | <u>SEC-79</u> | = |
| B261E: VEHICLE TYPE | × | × | × (Turn ON for 15 seconds) | SEC-82 | |
| B2621: INSIDE ANTENNA | _ | × | _ | <u>DLK-101</u> | _ |
| B2623: INSIDE ANTENNA | _ | × | _ | DLK-103 | J |
| B26E7: TPMS CAN COMM | _ | _ | _ | BCS-43 | _ |
| B26EA: KEY REGISTRATION | _ | × | × (Turn ON for 15 seconds) | <u>SEC-76</u> | K |

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< ECU DIAGNOSIS INFORMATION >

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

Reference Value INFOID:0000000011009272

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 | | | |
|---------------|--|---|-----------|--|--|
| RAD FAN REQ | Engine idle speed | Changes depending on engine coolant temperature, air conditioner operation status, vehicle speed, etc. | 0 – 100 % | | |
| | | A/C switch OFF | Off | | |
| AC COMP REQ | Engine running | A/C switch ON (Compressor is operating) | On | | |
| TAIL&CLR REQ | Lighting switch OFF | | Off | | |
| TAIL&CLR REQ | Lighting switch 1ST, 2ND, HI or | AUTO (light is illuminated) | On | | |
| LIL LO DEO | Lighting switch OFF | | Off | | |
| HL LO REQ | Lighting switch 2ND HI or AUTO |) (light is illuminated) | On | | |
| LII LII DEO | Lighting switch OFF | | Off | | |
| HL HI REQ | Lighting switch HI | | On | | |
| | | Front fog lamp switch OFF | Off | | |
| FR FOG REQ | Lighting switch 2ND or AUTO (light is illuminated) | Front fog lamp switch ON Daytime running light activated (Only for Canada) | On | | |
| | Ignition switch ON | Front wiper switch OFF | Stop | | |
| ED WID DEO | | Front wiper switch INT | 1LOW | | |
| FR WIP REQ | | Front wiper switch LO | Low | | |
| | | Front wiper switch HI | Hi | | |
| | | Front wiper stop position | STOP P | | |
| WIP AUTO STOP | Ignition switch ON | Any position other than front wiper stop position | ACT P | | |
| | | Front wiper operates normally | Off | | |
| WIP PROT | Ignition switch ON | Front wiper stops at fail-safe operation | BLOCK | | |
| ION DIVI DEO | Ignition switch OFF or ACC | | Off | | |
| IGN RLY1 -REQ | Ignition switch ON | | On | | |
| ICN DI V | Ignition switch OFF or ACC | | Off | | |
| IGN RLY | Ignition switch ON | | On | | |
| PUSH SW | Release the push-button ignition switch | | Off | | |
| FUSH SW | Press the push-button ignition s | witch | On | | |
| INTER/NP SW | Ignition switch ON | Selector lever in any position other than P or N | Off | | |
| | | Selector lever in P or N position | On | | |
| ST RLY CONT | Ignition switch ON | | Off | | |
| OT INET OOM | At engine cranking | | On | | |

< ECU DIAGNOSIS INFORMATION >

| Monitor Item | Con | ndition | Value/Status | | |
|----------------|---|---|---------------|--|--|
| IHBT RLY -REQ | Ignition switch ON | | Off | | |
| INDI KLI -KEQ | At engine cranking | On | | | |
| | Ignition switch ON | | Off | | |
| | At engine cranking | | $INHI \to ST$ | | |
| ST/INHI RLY | | control relay cannot be recognized by when the starter relay is ON and the | UNKWN | | |
| DETENT SW | Ignition switch ON | Press the selector button with selector lever in P position Selector lever in any position other than P | Off | | |
| | Release the selector button with se | lector lever in P position | On | | |
| S/L RLY -REQ | NOTE: The item is indicated, but not monitor | NOTE: The item is indicated, but not monitored. | | | |
| S/L STATE | NOTE: The item is indicated, but not monitor | UNLOCK | | | |
| DTRL REQ | NOTE: The item is indicated, but not monitor | Off | | | |
| OIL P SW | Ignition switch OFF, ACC or engine | running | Open | | |
| OIL P 3W | Ignition switch ON | | Close | | |
| HOOD SW | Close the hood | | Off | | |
| HOOD 344 | Open the hood | | On | | |
| HL WASHER REQ | NOTE: The item is indicated, but not monit | Off | | | |
| | Not operation | | Off | | |
| THFT HRN REQ | Panic alarm is activated Horn is activated with VEHICLE S TEM | On | | | |
| LIODNI CLIIDD | Not operating | Off | | | |
| HORN CHIRP | Door locking with Intelligent Key (ho | orn chirp mode) | On | | |
| CRNRNG LMP REQ | NOTE: The item is indicated, but not monit | Off | | | |

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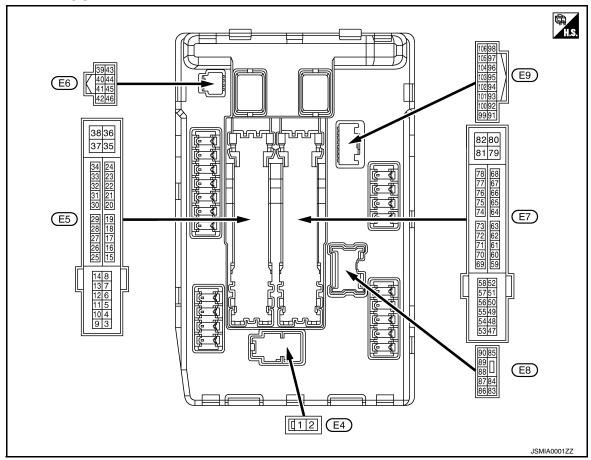
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TERMINAL LAYOUT



PHYSICAL VALUES

| | inal No. | Description | | | | Value | |
|------------------|----------|-----------------------------|---------------------------|---|---|-----------------|--|
| + (Wire | e color) | Signal name | Input/ Output | Condition | | (Approx.) | |
| 1 (W) | Ground | Battery power supply | Input | Ignition swi | itch OFF | Battery voltage | |
| 2 (L) | Ground | Battery power supply | Input | Ignition swi | itch OFF | Battery voltage | |
| 4 | Cround | Front winer LO | Output | Ignition | Front wiper switch OFF | 0 V | |
| (V) | Ground | Front wiper LO | Output | switch ON | Front wiper switch LO | Battery voltage | |
| 5 | Ground | Front wiper HI | Output Ignition switch ON | Front wiper switch OFF | 0 V | | |
| (L) | Ground | Tront wiper til | | switch ON | Front wiper switch HI | Battery voltage | |
| 7 | Ground | Tail, license plate lamps & | Output | Ignition | Lighting switch OFF | 0 V | |
| (R) | Ground | interior lamps | Output | switch ON | Lighting switch 1ST | Battery voltage | |
| 10 ^{*1} | | | | Ignition switch OFF (More than a few seconds after turning ignition switch OFF) | | 0 V | |
| (SB) | Ground | ECM relay power supply | Output | Ignition s | switch ON switch OFF w seconds after turning igni- ch OFF) | Battery voltage | |
| 12 (B) | Ground | Ground | _ | Ignition swi | itch ON | 0 V | |

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< ECU DIAGNOSIS INFORMATION >

| | inal No. e color) | Description | | | Condition | Value |
|------------------|----------------------|---------------------------------------|------------------|--------------------|--|-----------------|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) |
| 13 | | | _ | | tely 1 second or more after ignition switch ON | 0 V |
| (Y) | Ground | Fuel pump power supply | Output | | nately 1 second after turning on switch ON unning | Battery voltage |
| 16 | | | | Ignition | Front wiper stop position | 0 V |
| (LG) | Ground | Front wiper stop position | Input | switch ON | Any position other than front wiper stop position | Battery voltage |
| 19 | Ground | Ignition relay power supply | Output | Ignition swi | tch OFF | 0 V |
| (W) | Ground | ignition relay power supply | Output | Ignition swi | tch ON | Battery voltage |
| 25 | Cround | lanition relevance over events | Outout | Ignition swi | tch OFF | 0 V |
| (G) | Ground | Ignition relay power supply | Output | Ignition swi | tch ON | Battery voltage |
| 26 ^{*2} | | 1 10 | 0 1 1 | Ignition swi | tch OFF | 0 V |
| (R) | Ground | Ignition relay power supply | Output | Ignition swi | tch ON | Battery voltage |
| 27 | | | | Ignition swi | tch OFF or ACC | Battery voltage |
| (Y) | Ground | Ignition relay monitor | Input | Ignition swi | tch ON | 0 V |
| 28 | _ | Push-button ignition | | Press the p | oush-button ignition switch | 0 V |
| (BG) | Ground | switch | Input | | e push-button ignition switch | Battery voltage |
| 30 | Ground | Starter relay control | Input | Ignition | Selector lever in any position other than P or N | 0 V |
| (GR) | | round outlet roley control | | switch ON | Selector lever P or N | Battery voltage |
| 36 (G) | Ground | Battery power supply | Input | Ignition swi | tch OFF | Battery voltage |
| 39 (P) | _ | CAN-L | Input/ Output | | _ | _ |
| 40 (L) | _ | CAN-H | Input/ Output | | _ | _ |
| 41 (B) | Ground | Ground | _ | Ignition swi | tch ON | 0 V |
| 42 | Ground | Cooling fan relay control | Input | Ignition swi | tch OFF or ACC | 0 V |
| (Y) | Ground | Cooling lair relay control | прис | Ignition swi | tch ON | 0.7 V |
| 43 (SB) | Ground | A/T shift selector (Detention switch) | Input | Ignition switch ON | Press the selector button (Selector lever P) Selector lever in any position other than P | Battery voltage |
| | | | | | Release the selector but- ton (selector lever P) | 0 V |
| 44 | Grand | Horn relay control | Innut | The horn is | deactivated | Battery voltage |
| (W) | Ground | Horn relay control | Input | The horn is | activated | 0 V |
| 45 | Cracina | Anti thoft have valous and all | lan:-t | The horn is | deactivated | Battery voltage |
| (G) | Ground | Anti theft horn relay control | Input | The horn is | activated | 0 V |
| 46 (BR) | Ground | Starter relay control | Input | Ignition switch ON | Selector lever in any position other than P or N | 0 V |
| (DK) | | | | SWILCH ON | Selector lever P or N | Battery voltage |
| | | | | | A/C switch OFF | 0 V |
| 48 (L) | Ground | A/C relay power supply | Output | Engine running | A/C switch ON (A/C compressor is operating) | Battery voltage |
| | i . | | | 1 | | |

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< ECU DIAGNOSIS INFORMATION >

| | inal No. e color) | Description | | | 0 1111 | Value | | | |
|---|----------------------|--|------------------|--|--|-----------------|------------------------------|--|----------------------------------|
| + | - | Signal name | Input/ Output | | Condition | (Approx.) | | | |
| 49 | | | | Ignition swi (More than ignition swi | a few seconds after turning | 0 V | | | |
| (W)*1 (SB)*3 | Ground | ECM relay power supply | Output | Ignition s Ignition s (For a fe tion switch | witch OFF w seconds after turning igni- | Battery voltage | | | |
| 51 | Ground | Ignition relay power supply | Output | Ignition sw | tch OFF | 0 V | | | |
| (G) | Ordana | ignition roley power cappiy | Catpat | Ignition sw | tch ON | Battery voltage | | | |
| 52 | Ground | Ignition relay power supply | Output | Ignition sw | tch OFF | 0 V | | | |
| (W) | | 3 | | Ignition sw | | Battery voltage | | | |
| 50 | | | | Ignition swi (More than ignition swi | a few seconds after turning | 0 V | | | |
| 53 (W) | Ground | ECM relay power supply | Output | Ignition s Ignition s (For a fe tion swite) | witch OFF w seconds after turning igni- | Battery voltage | | | |
| F.4 | | Throwing a section of | | Ignition swi (More than ignition swi | a few seconds after turning | 0 V | | | |
| 54 (R) | Ground | Throttle control motor re- lay power supply | Output | Ignition s Ignition s (For a fe tion swite) | witch OFF w seconds after turning igni- | Battery voltage | | | |
| 55 (BR) | Ground | ECM power supply | Output | Ignition sw | tch OFF | Battery voltage | | | |
| 56 | | | | Ignition sw | tch OFF | 0 V | | | |
| (BG) ^{*1} (V) ^{*3} | Ground | Ignition relay power supply | Output | Ignition sw | tch ON | Battery voltage | | | |
| 57 | Ground | Ignition relay power supply | Output | Ignition sw | tch OFF | 0 V | | | |
| (LG) | Ground | ignition relay power supply | Output | Ignition switch ON | | Battery voltage | | | |
| 58 | Ground | Ignition relay power supply | Output | Ignition sw | tch OFF | 0 V | | | |
| (Y) | | 3 | | Ignition sw | | Battery voltage | | | |
| 60 | | | | Ignition swi (More than ignition swi | a few seconds after turning | Battery voltage | | | |
| 69 (W) | Ground | ECM relay control | Output | Ignition switch ON Ignition switch OFF (For a few seconds after turning ignition switch OFF) | | 0 – 1.5 V | | | |
| | | | | | | 0 – 1.0 V | | | |
| 70 (BG) | Ground | Throttle control motor re- lay control | | | ()IIfnii | Output | Ignition switch $ON \to OFF$ | | ↓ Battery voltage ↓ 0 V |
| | | | | Ignition switch ON | | 0 – 1.0 V | | | |
| 74 | Ground | Ignition relay power supply | Output | Ignition sw | tch OFF | 0 V | | | |
| (G) | Ground | ignition relay power supply | Output | Ignition sw | tch ON | Battery voltage | | | |
| 75 | Ground | Oil pressure switch | Input | Ignition | Engine stopped | 0 V | | | |
| (Y) | 2.00110 | | | switch ON | Engine running | Battery voltage | | | |

< ECU DIAGNOSIS INFORMATION >

| | inal No. | Description | Description | | Value | 0 | |
|----------------------|----------|---------------------------------|------------------|--|--|--|--------|
| (Wire | e color) | Signal name | Input/ Output | - | Condition | (Approx.) | Α |
| | | | | Ignition swi | itch ON | (V) 6 4 2 0 2 2ms JPMIA0001GB 6.3 V | B C |
| 76 (P)*1 (V)*3 | Ground | Power generation command signal | Output | | on "ACTIVE TEST", "AL- R DUTY" of "ENGINE" | (V) 6 4 2 0 2ms JPMIA0002GB 3.8 V | E |
| | | | | | on "ACTIVE TEST", "AL- R DUTY" of "ENGINE" | (V) 6 4 2 0 2 2 ms JPMIA0003GB | G H |
| 77 (B)*1 (L)*3 | Ground | Fuel pump relay control | Output | Approximately 1 second after turning the ignition switch ON Engine running Approximately 1 second or more after | | 1.4 V 0 – 1.0 V | J |
| 80 | Ground | Starter motor | Output | turning the | ignition switch ON | Battery voltage | K |
| (W) | Ground | Starter motor | Output | | | Battery voltage | EV |
| 83 (R) | Ground | Headlamp LO (RH) | Output | Ignition switch ON | Lighting switch OFF Lighting switch 2ND | 0 V Battery voltage | EX |
| 84 (P) | Ground | Headlamp LO (LH) | Output | Ignition switch ON | Lighting switch OFF Lighting switch 2ND | 0 V Battery voltage | M |
| 86 (W) | Ground | Front fog lamp | Output | Lighting switch 2ND | Front fog lamp switch ON Daytime running light activated (Only for Canada) | Battery voltage | Ν |
| | | | | | Front fog lamp switch OFF | 0 V | 0 |
| 88 (G) | Ground | Washer pump power supply | Output | Ignition swi | itch ON | Battery voltage | |
| 89 (BR) | Ground | Headlamp HI (RH) | Output | Ignition switch ON | Lighting switch HI Lighting switch PASS Lighting switch OFF | Battery voltage | Р |
| | | | | | Lighting switch OFF • Lighting switch HI | 0 V | |
| 90 (Y) | Ground | Headlamp HI (LH) | Output | Ignition switch ON | Lighting switch PASS | Battery voltage | |
| . , | | | | | Lighting switch OFF | 0 V | |

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< ECU DIAGNOSIS INFORMATION >

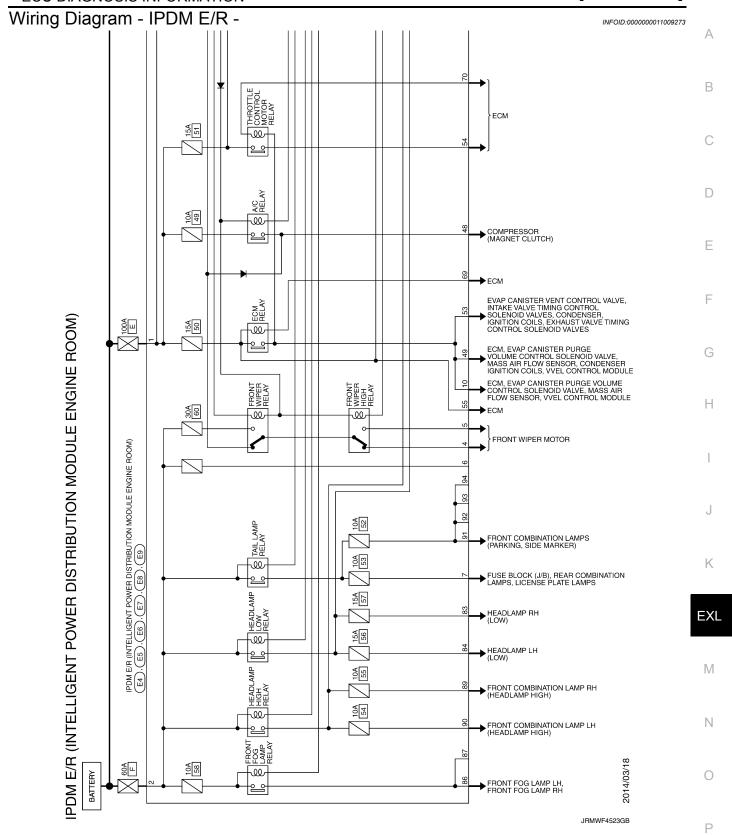
| | inal No. | Description | | | | Value |
|-----------|------------------------------|---------------------|------------------|---------------------|---------------------|-----------------|
| + (Wire | e color) | Signal name | Input/ Output | Condition | | (Approx.) |
| 91 | Cround | Darking lamp | Q to t Ignition | | Lighting switch 1ST | Battery voltage |
| (P) | Ground | Parking lamp | Output switch ON | Lighting switch OFF | 0 V | |
| 97 (V) | Ground | Cooling fan control | Output | Engine idling | | 0 – 5 V |
| 104 | 104 Ground Hood switch Input | | Close the h | nood | Battery voltage | |
| (LG) | Giodila | 11000 SWILCIT | Input | Open the hood | | 0 V |

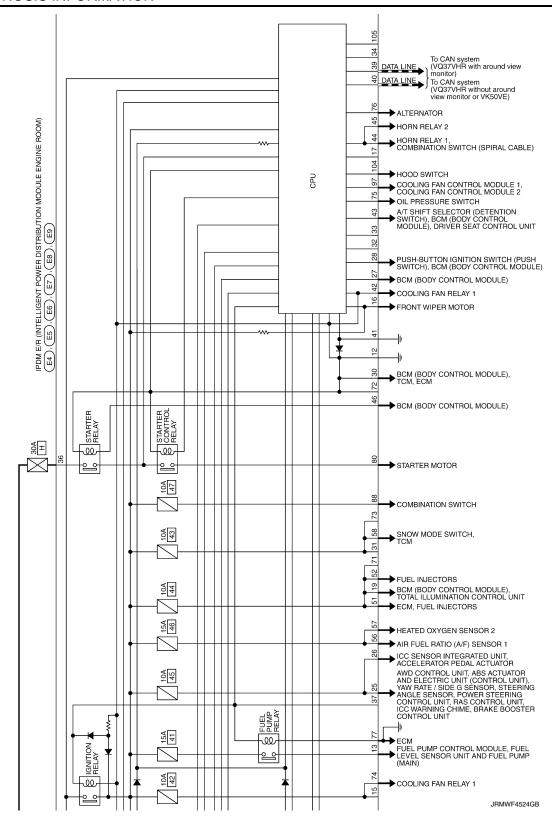
^{*1:} VK engine models

^{*2:} Only for the models with ICC system

^{*3:} VQ engine models

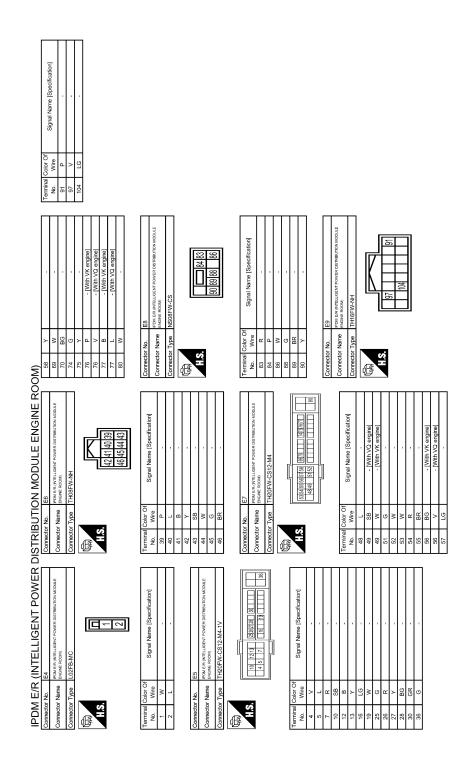
< ECU DIAGNOSIS INFORMATION >





[XENON TYPE] < ECU DIAGNOSIS INFORMATION >

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JRMWF4526GB

Fail-safe INFOID:0000000011009274

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

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< ECU DIAGNOSIS INFORMATION >

| Control part | Fail-safe operation |
|----------------|---|
| Cooling fan | Outputs the pulse duty signal (PWM signal) 100% when the ignition switch is turned ON Outputs the pulse duty signal (PWM signal) 0% 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 | 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 |
| Parking lampsLicense plate lampsSide marker lampsIlluminationsTail lamps | 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 | 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 j | udgment | | | |
|-----------------------------|-------------------------------------|---------------------------|---|--|
| Ignition relay contact side | Ignition relay excitation coil side | IPDM E/R judgment | Operation | |
| ON | ON | Ignition relay ON normal | _ | |
| OFF | OFF | Ignition relay OFF normal | _ | |
| ON | OFF | Ignition relay ON stuck | 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. |

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< 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.

DTC Index INFOID:0000000011009275

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 \rightarrow 2 \cdots 38 \rightarrow 39 after returning to the normal condition whenever IGN OFF \rightarrow
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

x: Applicable

| | | x. Applicable |
|--|-----------|---------------|
| CONSULT display | Fail-safe | Reference |
| 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 | _ | <u>SEC-83</u> |
| B210C: STR CONT RLY OFF CIRC | _ | <u>SEC-84</u> |
| B210D: STARTER RLY ON CIRC | _ | <u>SEC-86</u> |
| B210E: STARTER RLY OFF CIRC | _ | <u>SEC-88</u> |
| B210F: INTRLCK/PNP SW ON | _ | SEC-90 |
| B2110: INTRLCK/PNP SW OFF | _ | <u>SEC-92</u> |

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AFS CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

| Monitor Item | Condition | on | Value/Status |
|-----------------|---|----------------------------|---------------------------------------|
| STR ANGLE SIG | Stooring | Straight-forward | Approx. 0° |
| STR ANGLE SIG | Steering | Steering | Approx900° - +900° |
| VHCL SPD | Driving at 40 km/h (25 MPH) | | 40 km/h |
| SLCT LVR POSI | Selector lever operation | | P - 1 |
| HEAD LAMP | Light quitab | 2ND | On |
| HEAD LAWP | Light switch | Other than 2ND | Off |
| AFS SW | NOTE: The item is indicated, but not monitore | d. | |
| | | Unloaded vehicle condition | Approx. 2.5 V |
| HI SEN OTP RR | Vehicle rear height | Low (Leveling operation | Approx. 1.6 V (With 20-inch wheel) |
| | | downward edge) | Approx. 1.8 V (With 21-inch wheel) |
| | | Unloaded vehicle condition | Approx. 70.0% |
| LEV ACTR VLTG | Headlamp leveling | Low (Leveling operation | Approx. 40.8% (With 20-inch wheel) |
| | | downward edge) | Approx. 41.8% (With 21-inch wheel) |
| CMA/L OFN DU | Diebt handlaman autical activation | Standard position | Approx. 0° |
| SWVL SEN RH | Right headlamp swivel activation | Activation | Positive degree (+°) |
| CMA/I CENTIL | Left headlemn autical activation | Standard position | Approx. 0° |
| SWVL SEN LH | Left headlamp swivel activation | Activation | Positive degree (+°) |
| SWVL ANGLE RH | Dight headlams quivel activation | Standard position | Approx. 0° |
| SWVL ANGLE RA | Right headlamp swivel activation | Activation | Positive degree (+°) |
| SWVL ANGLE LH | Loft headlemp outival activation | Standard position | Approx. 0° |
| SVVVL ANGLE LIT | Left headlamp swivel activation | Activation | Positive degree (+°) |

TERMINAL LAYOUT

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

PHYSICAL VALUES

| | nal No. e color) | Description | | 0 1111 | | Value | | | |
|------------|---------------------|---|----------------------------------|------------------------------|-------------------------------|--|--|--|--|
| + | - | Signal name | Input/ output | Condition | on | (Approx.) | | | |
| 1 (Y) | Ground | Ignition power supply | Input | Ignition switch ON | | Battery voltage | | | |
| 2 (LG) | Ground | Right swivel position sensor ground | Input | Ignition switch ON | | 0 V | | | |
| 4 (Y) | Ground | Right swivel position sensor power supply | Output | Ignition switch ON | | 5 V | | | |
| 6 (W) | Ground | Height sensor power supply | Output | Ignition switch ON | | 5 V | | | |
| 7 (P) | Ground | CAN-L | Input/ output | _ | | _ | | | |
| 8 (B) | Ground | Height sensor ground | Input | Ignition switch ON | | 0 V | | | |
| 9 | Ground | Right swivel position sensor | Output | Right headlamp | 0° | 0.7 V | | | |
| (GR) | Ground | signal | Output | swivel angle | 15° | 2.8 V | | | |
| 11 (R) | Ground | Right swivel motor 1-phase (-) | Output | Right headlamp swivel | Activation | Reference waveform (V) 15 10 5 0 SKIB240BJ 8 - 12 V | | | |
| 13 (B) | Ground | Right swivel motor 2-phase (–) | Output | Right headlamp swivel | Stopped | 9.5 - 11.5 V | | | |
| 15 (G) | Ground | Left swivel motor 1-phase (+) | Output | Left headlamp swivel | Activation | Reference waveform (V) 15 10 5 0 SKIB240BJ 8 - 12 V | | | |
| 17 (W) | Ground | Left swivel motor 2-phase (+) | Output | Left headlamp swivel | Stopped | 9.5 - 11.5 V | | | |
| | | | Unloaded vehicle condition 8.8 V | | | | | | |
| 19 (SB) | Ground | Right levelizer signal | Output | Right headlamp lev- eling | Leveling oper- ation down- | 5.1 V (With 20-inch wheel) 5.2 V | | | |
| | | | | | ward edge | (With 21-inch wheel) | | | |
| 24 (V) | Ground | Left swivel position sensor power supply | Output | Ignition switch ON | | 5 V | | | |
| 25 (B) | Ground | Ground | _ | Ignition switch ON | | 0 V | | | |
| 27 (BR) | Ground | Left swivel position sensor ground | Input | Ignition switch ON | | 0 V | | | |

AFS CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

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| | inal No. e color) | Description | | Condition | | Value |
|------------|----------------------|------------------------------------|------------------|------------------------------|-------------------------------|--|
| + | _ | Signal name | Input/ output | Condition | ווו | (Approx.) |
| | | | | | Unloaded vehicle condition | 2.5 V |
| 28 (SB) | Ground | Height sensor signal | Output | Vehicle rear height | Low (Leveling operation | 1.6 V (With 20-inch wheel) |
| | | | | | downward edge) | 1.8 V (With 21-inch wheel) |
| 29 (BG) | Ground | Left swivel position sensor signal | Output | Left headlamp swivel angle | 0° 17° | 0.7 V 3.0 V |
| 30 (L) | Ground | CAN-H | Input/ output | _ | | _ |
| 32 (G) | Ground | Right swivel motor 2-phase (+) | Output | Right headlamp swivel | Activation | Reference waveform (V) 15 10 5 0 SKIB2408J 8 - 12 V |
| 34 (W) | Ground | Right swivel motor 1-phase (+) | Output | Right headlamp swivel | Stopped | 9.5 - 11.5 V |
| 36 (R) | Ground | Left swivel motor 2-phase (-) | Output | Left headlamp swivel | Activation | Reference waveform (V) 15 15 15 15 15 15 15 15 15 15 15 15 15 |
| 38 (B) | Ground | Left swivel motor 1-phase (-) | Output | Left headlamp swivel | Stopped | 9.5 - 11.5 V |
| | | | | | Unloaded vehicle condition | 8.8 V |
| 40 (BG) | Ground | Left levelizer signal | Output | Right headlamp lev- eling | Leveling oper- ation down- | 5.1 V (With 20-inch wheel) |
| | | | | | ward edge | 5.2 V (With 21-inch wheel) |

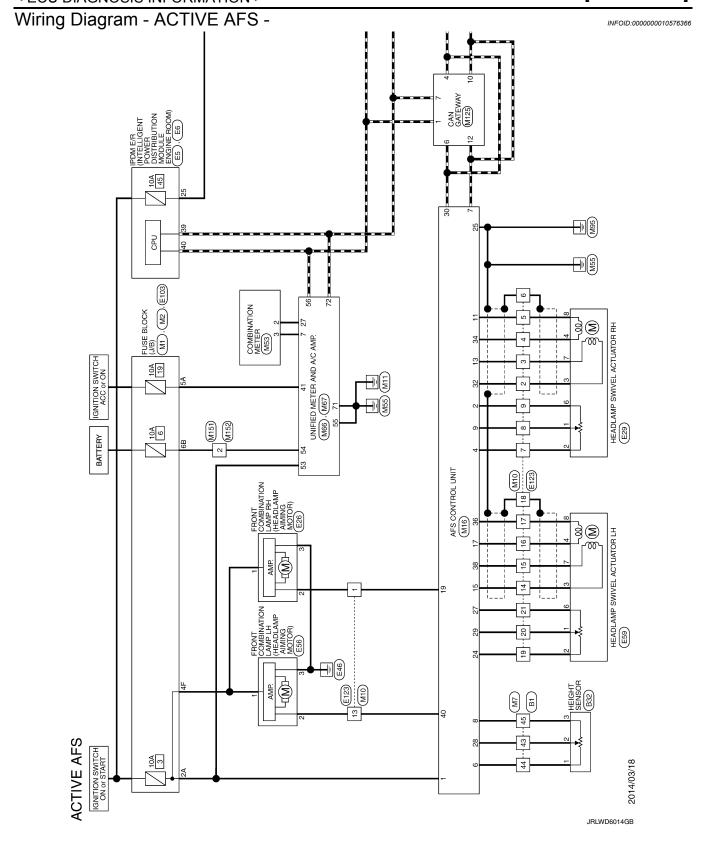
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JOINT CONNECTOR A/T ASSEMBLY (F51) TCM F151 ECM M164 M M DATA LINE DATA LINE DATA LINE DATA LINE JRLWD6015GB

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

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|--------|-------------------|---|------|-------|---|----------------|--|-------------|--------------------|---|---|
| Connec | Connector No. | B1 | 22 | ۵ | - | Connector No. | r No. B32 | | Connector No. | Ш | _ |
| Connec | Connector Name | WIRE TO WIRE | 88 8 | _ i | | Connecto | Connector Name HEIGHT SENSOR | | Connector Name | PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | |
| Connec | stor Type | Connector Type TH80FW-CS16-TM4 | £ 9 | SMELD | | Connecto | Connector Type RH03FB | | Connector Tvi | Connector Type TH08FW-NH | _ |
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| | | \$ 00 BEST SERVICES SE | 99 | > | | | | | | 46 45 44 43 | |
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| Termin | Terminal Color Of | | 8 8 | و. | | Terminal | Ferminal Color Of | | Terminal Color Of | L | _ |
| 2 | Wire | Signal Name [Specification] | 202 | GR | | 2 | Wire Signal Name [Specification] | ation] | No. | Wire Signal Name [Specification] | |
| - | ŋ | | 71 | ŋ | , | - | > | | 39 | | _ |
| 2 | - | | 72 | В | | 2 | SB . | | 40 | | _ |
| 3 | Μ | | 73 | Μ | | 3 | GR . | | 41 | | _ |
| 9 | 9 | | 74 | ^ | | | | | 42 | ٠ . | _ |
| 7 | Ь | | 75 | BG | , | | | | Н | SB . | _ |
| 60 | BG | - | 9/ | re | | Connector No. | r No. E5 | | _ | | _ |
| 10 | Н | | 7.7 | ٦ | | Connector Name | POM E/R (INTELLIGENT POWER DISTRIBUTION MODULE | TION MODULE | Н | . 9 | |
| = | SB | • | 78 | GR | , | 200 | ENGINE ROOM) | | 46 B | BR . | _ |
| 12 | 8 | | 79 | W | | Connecto | Connector Type TH20FW-CS12-M4-1V | | | | |
| 13 | Н | • | 80 | ٦ | • | 4 | | | | | |
| 14 | œ | | 81 | ۵ | , | B | | | Connector No. | . E26 | |
| 15 | Μ | | 82 | ٦ | | ŧ | | E | on and and | LIG GMA INCITANIGMOO TACGO | |
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| 17 | _ | | 8 | SB | , | | 4 5 7 16 19 | 36 | Connector Type | pe RK03FB | _ |
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| 19 | 4 | | 98 | > | | | | | 厚 | < | |
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| 23 | S | Q | | | | 30 | GR | 1 | | | |
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| Connector No. E29 | Connector No. E59 | Connector No. | E106 | 37 | > | |
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| | Γ | I | | 8 | 9 | |
| Connector Name HEADLAMP SWIVEL ACTUATOR RH | Connector Name HEADLAMP SWIVEL ACTUATOR LH | OR LH Connector Name | WIRE TO WIRE | 8 8 | <u> </u> | |
| Connector Type RS08FGY-PR | Connector Type RS08FGY-PR | Connector Type | TH80FW-CS16-TM4 | 4 | 9 | |
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| Signal Name [Specification] | g E | erminal | Signal Name [Specification] | 20 | BK | • |
| , | | No. Wire | - | 2 | В | |
| GR - | 1 BG | 1 0 | | 52 | > | |
| Υ . | 2 V | 2 BG | | 53 | BG | |
| 9 | 3 R | 3 SB | - | 24 | ď | - |
| - M | 4 6 | 4 LG | | 22 | SB | |
| . 91 | . BR | \ \ | | 29 | ۵ | |
| | | 9 | | 9 | SB | |
| | 8 | H | | 61 | > | |
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| Connector No | Connector No E103 | + | | 8 8 | 2 - | |
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| | | _ | - [With ICC] | 78 | Y | |
| | | 20 Y | - [Without ICC] | 80 | SB | |
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| Wire Signal Name [Specification] | No. Wire Signal Name [Specification] | 22 | - PWith ICCI | 82 | * | |
| 9 | 10F | > 22 | - [Without ICC] | 83 | 91 | |
| BG . | JF SB | H | | 8 | GR | |
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| | 9F R - | \dashv | | 06 | BR | |
| | | 29 LG | | 91 | GR | |
| | | 30 BG | • | 92 | BR | |
| | | 32 W | | 93 | SB | |
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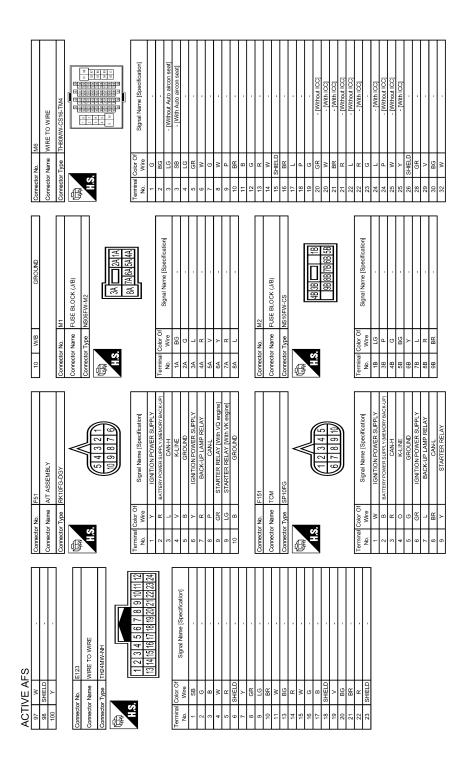
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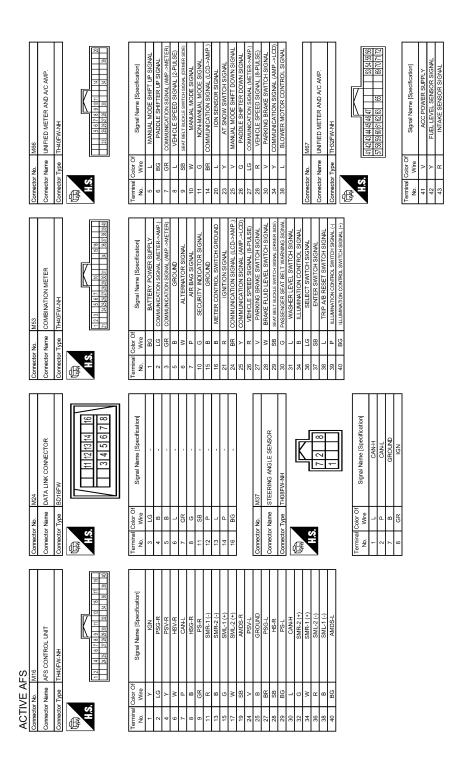
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| | Connector No. M164 | Connector Name ECM | ┱ | Connector Type RH24FGY-RZ8-R-LH-Z | | 1444) | 011 M1 001 711 871 071 | 27 77 | 126 122 114 110 109 102 98 | 125 121 117 113 109 101 97 | | | Terminal Color Of Sinnal Name [Specification] | No. Wire ognericant population | 97 R ACCELERATOR PEDAL POSITION SENSOR 1 | 98 ACCELERATOR PEDAL POSITION SENSOR 2 (Without NAVI) | ` > | 99 G SENSOR POWER SUPPLY [With NAVI] | 99 L SENSOR POWER SUPPLY [Without NAVI] | 100 W SENSOR GROUND | 101 SB ASCD/ICC STEERING SWITCH | EVA | 103 G SENSOR POWER SUPPLY [Without NAVI] | 103 L SENSOR POWER SUPPLY [With NAVI] | 104 BR SENSOR GROUND [With NAVI] | 104 GR SENSOR GROUND [Without NAVI] | 105 L REFRIGERANT PRESSURE SENSOR | FUEL | BG SEN | > SE | 0 | 110 R ENGINE SPEED OUI PUT SIGNAL | 112 W opposition and the common of the commo | a. | | 117 GR DATA LINK CONNECTOR | 121 LG EVAP CANISTER VENT CONTROL VALVE | 122 P STOP LAMP SWITCH | 123 B ECM GROUND | 124 B ECM GROUND | GR POWE | # # | 127 B ECM GROUND | 60 | |
|------------|--------------------------|-----------------------------|-----------------------|-----------------------------------|-----------------------|----------------------|------------------------|----------|---------------------------------|----------------------------|----------------------|--------------------------|---|--------------------------------|--|---|----------------|--------------------------------------|---|---------------------|---------------------------------|--------------------------------|--|---------------------------------------|----------------------------------|-------------------------------------|-----------------------------------|------|--------|-----------|---|-----------------------------------|--|-------------------|-----------------------------|----------------------------|---|------------------------|------------------|------------------|---------|----------|------------------|--------|-------|
| | Connector No. M151 | Connector Name WIRE TO WIRE | ┑ | Connector Type M03FW-LC | Q | | Ī | | c | 35 | | | Terminal Color Of Sinnal Name (Specification) | No. Wire | | 2 Y . | 3 R | | | Connector No. M152 | - | Connector Name WIRE O WIRE | Connector Type M03MW-LC | ſ | | | - T | C | 67 |] | | Signal Name [Specification] | + | 2 × | 2 | | | | | | | | | | |
| FS | IN-VEHICLE SENSOR SIGNAL | AMBIENT SENSOR SIGNAL | SUNLOAD SENSOR SIGNAL | GAS SENSOR SIGNAL | IGNITION POWER SUPPLY | BATTERY POWER SUPPLY | GROUND | CAN-H | BRAKE FLUID LEVEL SWITCH SIGNAL | FUEL LEVEL SENSOR GROUND | INTAKE SENSOR GROUND | IN-VEHICLE SENSOR GROUND | AMBIENT SENSOR GROUND | SUNLOAD SENSOR GROUND | ION MODE SIGNAL | ECV SIGNAL | A/C LAN SIGNAL | EACH DOOR MOTOR POWER SUPPLY | GROUND | CAN-L | | | M125 | CAN CATEMAX | CANGALEWAI | TH12FW-NH | | | | 1 3 4 5 6 | , | 7 1111118 | | | Signal Name [Specification] | CANH | BATTERY | CAN-H | GROUND | CANH | CAN-L | NOILINDI | CAN-L | GROUND | CANFL |
| ACTIVE AFS | 97 t | + | 7 | + | + | _ | B | \dashv | | 9 B | GR GR | \dashv | H | SB | R | 5 BG | ٦ 1 | | _ | Ь | | | Connector No. | Connector Momo | ector ivallie | Connector Type | • | _ | ٤ | 2 | | | | Terminal Color Of | Wire | _ | g | _ | 8 | _ | ۵ | 9 | а | 8 | H |
| AC | 44 | 45 | 46 | 47 | 23 | 54 | 55 | 26 | 22 | 28 | 29 | 9 | 9 | 62 | 63 | 65 | 69 | 70 | 71 | 72 | | | Conn | 1 | 5 | Con | | ß | 7 | 1 | | | | Term | Š | _ | 6 | 4 | 2 | 9 | _ | · 6 | 10 | - | 12 |

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Fail-Safe

| DTC | Fail-safe | AFS OFF indica- tor lamp | Cancellation |
|---|--|-----------------------------|--|
| CAN COMM CIRCUIT [U1000] | Right and left swivel motors stop at the position when DTC is detected. Right and left aiming motors stop at the position when DTC is detected. | Blinks 1 second each. | Ignition switch OFF |
| CONTROL UNIT (CAN) [U1010] | Right and left swivel motors stop at the position when DTC is detected. Right and left aiming motors stop at the position when DTC is detected. | Blinks 1 second each. | Ignition switch OFF |
| SWIVEL ACTUATOR [RH, LH] [B2503, B2504] | Right and left swivel motors stop at the position when DTC is detected. The signal, approximately 2 V decreased from the levelizer signal when DTC detected, is output. | Blinks 1 second each. | Ignition switch OFF |
| HI SEN UNUSUAL [RR] [B2514] | Right and left aiming motors stop at the position when DTC is detected. | _ | Ignition switch OFF |
| ST ANG SEN SIG [C0126] | Right and left swivel motor swivel angle returns to 0° and fixed. | Blinks 1 second each. | Ignition switch OFF |
| SHIFT SIG [P, R] [B2516] | Right and left swivel motor swivel angle returns to 0° and fixed. | Blinks 1 second each. | Ignition switch OFF |
| VEHICLE SPEED SIG [B2517] | Right and left swivel motor swivel angle returns to 0° and fixed. Right and left aiming motors stop at the position when DTC is detected. | Blinks 1 second each. | Ignition switch OFF |
| LEVELIZER CALIB [B2519] | Right and left aiming motors stop at the position when DTC is detected. | _ | When the levelizer adjustment is completed. |
| ST ANGLE SEN CALIB [C0428] | Right and left swivel motor swivel angle returns to 0° and fixed. | Blinks 1 second each. | When the steering angle sensor neutral position registration is competed |
| ECU CIRC [B2521] | Right and left swivel motors stop at the position when DTC is detected. Right and left aiming motors stop at the position when DTC is detected. | Blinks 1 second each. | Ignition switch OFF |

DTC Inspection Priority Chart

INFOID:0000000010576368

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

NOTE:

- If DTC U1000 is displayed with other DTC, first perform the trouble diagnosis for DTC U1000.
- If DTC U1010 is displayed with other DTC, first perform the trouble diagnosis for DTC U1010.

| Priority | Detected items (DTC) |
|----------|---|
| 1 | U1000 CAN COMM CIRCUIT U1010 CONTROL UNIT (CAN) |
| 2 | B2519 LEVELIZER CALIB B2521 ECU CIRC C0428 ST ANG SEN CALIB |
| 3 | B2503 SWIVEL ACTUATOR [RH] B2504 SWIVEL ACTUATOR [LH] B2514 HI SEN UNUSUAL [RR] B2516 SHIFT SIG [P, R] B2517 VEHICLE SPEED SIG C0126 ST ANG SEN SIG |

AFS CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[XENON TYPE]

DTC Index

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| CONSULT indication | Fail-safe | AFS OFF indicator lamp | Reference |
|--|-----------|------------------------|-----------------------|
| U1000: CAN COMM CIRCUIT | × | × | EXL-62, "Description" |
| U1010: CONTROL UNIT (CAN) | × | × | EXL-63, "DTC Logic" |
| B2503, B2504: SWIVEL ACTUATOR [RH, LH] | × | × | EXL-45, "Description" |
| B2514: HI SEN UNUSUAL [RR] | × | | EXL-51, "Description" |
| B2516: SHIFT SIG [P, R] | × | × | EXL-54, "Description" |
| B2517: VEHICLE SPEED SIG | × | × | EXL-55, "Description" |
| B2519: LEVELIZER CALIB | × | | EXL-56, "Description" |
| B2521: ECU CIRC | × | × | EXL-57, "Description" |
| C0126: ST ANG SEN SIG | × | × | EXL-60. "Description" |
| C0428: ST ANGLE SEN CALIB | × | × | EXL-61, "Description" |

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[XENON TYPE]

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

CAUTION:

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

| Symp | otom | Possible cause | Inspection item |
|--|---|--|--|
| Headlamp does not switch to the high beam. | One side | Fuse Harness between IPDM E/R and the front combination lamp Front combination lamp (High beam solenoid) IPDM E/R | Headlamp (HI) circuit Refer to <u>EXL-67</u> . |
| | Both sides | Symptom diagnosis "BOTH SIDE HEADLAMPS DO N Refer to EXL-212. | OT SWITCH TO HIGH BEAM" |
| High beam indicator lamp (Headlamp switches to the | | Combination meter Unified meter and A/C amp. | Unified meter and A/C amp. Data monitor "HI-BEAM IND" BCM (HEAD LAMP) Active test "HEADLAMP" |
| | One side | Front combination lamp (High beam solenoid) | _ |
| Headlamp does not switch to the low beam. | | Combination switch Harness between the combination switch and BCM BCM | Combination switch Refer to BCS-90. |
| | Both sides | High beam request signal BCM IPDM E/R | IPDM E/R Data monitor "HL HI REQ" |
| | | IPDM E/R | _ |
| Headlamp is not turned ON. | One side | Fuse Xenon bulb Harness between IPDM E/R and the front combination lamp Front combination lamp (xenon headlamp) IPDM E/R | Headlamp (LO) circuit Refer to EXL-70. |
| | Both sides | Symptom diagnosis | |
| | When the ignition switch is turned ON | "BOTH SIDE HEADLAMPS (LO) A Refer to EXL-213. | RE NOT TURNED ON" |
| Headlamp is not turned OFF. | The ignition switch is turned OFF (After activating the battery saver.) | IPDM E/R | _ |
| Headlamp is not turned Of | N/OFF with the lighting | Combination switch Harness between the combination switch and BCM BCM | Combination switch Refer to BCS-90. |
| switch AUTO. | | Optical sensor Harness between the optical sensor and BCM BCM | Optical sensor Refer to <u>EXL-84</u> . |

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

| Symptom | | Possible cause | Inspection item | |
|--|---|--|---|--|
| Front fog lamp is not turned ON. | One side | Front fog lamp bulb Harness between IPDM E/R and the front fog lamp IPDM E/R | Front fog lamp circuit Refer to <u>EXL-76</u> . | |
| | Both side | Symptom diagnosis | S ADE NOT TUDNED ON" | |
| Front fog lamp is not turne | ed ON. | "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-215. | | |
| Front fog lamp indicator lamp is not turned ON. (Front fog lamp is turned ON.) | | Combination meter Unified meter and A/C amp. | Unified meter and A/C amp. Data monitor "FR FOG IND" BCM (HEAD LAMP) Active test "FR FOG LAMP" | |
| Parking lamp is not turned ON. | | Fuse Parking lamp bulb Harness between IPDM E/R and the front combination lamp Front combination lamp IPDM E/R | Parking lamp circuit Refer to <u>EXL-78</u> . | |
| Tail lamp is not turned ON. | | Harness between IPDM E/R and the rear combination lamp Rear combination lamp | Tail lamp circuit Refer to EXL-89. | |
| License plate lamp is not turned ON. | | Harness between IPDM E/R and the license plate lamp License plate lamp | License plate lamp circuit Refer to EXL-91. | |
| Tail lamp and license plate lamp are not turned ON. | | Fuse Harness between IPDM E/R and the rear combination lamp IPDM E/R | Tail lamp circuit Refer to EXL-89. | |
| Parking lamp, side mark cense plate lamp are no Parking lamp, side mark cense plate lamp are no (Each illumination is turne | ot turned ON. Ker lamp, tail lamp and li- ot turned OFF. | Symptom diagnosis "PARKING, LICENSE PLATE AND ON" Refer to EXL-214. | TAIL LAMPS ARE NOT TURNED | |
| Tail lamp indicator lamp is not turned ON. (Parking and tail lamps are turned ON.) | | Combination meter Unified meter and A/C amp. | Unified meter and A/C amp. Data monitor "LIGHT IND" BCM (HEAD LAMP) Active test "TAIL LAMP" | |
| Turn signal lamp does not blink. | Indicator lamp is normal. (The applicable side performs the high flasher activation.) | Harness between BCM and each turn signal lamp Turn signal lamp bulb | Turn signal lamp circuit Refer to <u>EXL-81</u> . | |
| | Indicator lamp is included | Combination switchHarness between the combination switch and BCMBCM | Combination switch Refer to BCS-90. | |
| Turn signal indicator lamp does not blink. (The turn signal indicator lamp is normal.) | One side | Combination meter | _ | |
| | Both sides (Always) | Turn signal indicator lamp signal Unified meter and A/C amp. BCM Combination meter | Unified meter and A/C amp. Data monitor "TURN IND" BCM (FLASHER) Active test "FLASHER" | |
| | Both sides (Only when activating the hazard warning lamp with the ignition switch OFF.) | The combination meter power supply and the ground circuit Combination meter | Combination meter Power supply and the ground circuit Refer to MWI-58. | |

Revision: 2015 February EXL-209 2015 QX70

EXTERIOR LIGHTING SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

| Symptom | Possible cause | Inspection item |
|---|--|---|
| Hazard warning lamp does not activate. Hazard warning lamp continues activating. (Turn signal is normal.) | Hazard switch Harness between the hazard switch and BCM BCM | Hazard switch Refer to <u>EXL-87</u> . |
| Headlamp auto aiming does not activate. (AFS is normal.) | Harness between AFS control unit and aiming motor Front combination lamp (Aiming motor) AFS control unit | Headlamp levelizer circuit Refer to EXL-74. |
| AFS OFF indicator lamp is not turned ON. | AFS OFF indicator lamp signal Unified meter and A/C amp. AFS control unit Combination meter | Unified meter and A/C amp. Data monitor "AFS OFF IND" |

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS > [XENON TYPE]

NORMAL OPERATING CONDITION

Description A

XENON HEADLAMP

- Brightness and the color of light may change slightly immediately after turning the headlamp ON until the xenon bulb becomes stable. This is normal.
- Illumination time lag may occur between right and left. This is normal.

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 for the control difference. This is normal.

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BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

BOTH SIDE HEADLAMPS DO NOT SWITCH TO HIGH BEAM

Description INFOID:000000010576372

The headlamp (both sides) does not switch to the high beam when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:0000000010576373

1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-90, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

(E) 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 |
|--------------|-----------------------|-----------------------|----------------|
| | Lighting switch (2ND) | HI or PASS | On |
| HL HI REQ | | Except for HI or PASS | Off |

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-67.

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON [XENON TYPE] < SYMPTOM DIAGNOSIS > BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON Α Description INFOID:0000000010576374 The headlamps (both sides) are not turned ON in any condition. В Diagnosis Procedure INFOID:0000000010576375 1. COMBINATION SWITCH INSPECTION Check the combination switch. Refer to BCS-90, "Symptom Table". Is the combination switch normal? D YES >> GO TO 2. NO >> Repair or replace the malfunctioning part. 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT Е **©CONSULT DATA MONITOR** Select "HL LO REQ" of IPDM E/R data monitor item. With operating the lighting switch, check the monitor status. F Monitor item Condition Monitor status 2ND On **HL LO REQ** Lighting switch OFF Off Is the item status normal? Н YES >> GO TO 3. NO >> Replace BCM. 3.HEADLAMP (LO) CIRCUIT INSPECTION Check the headlamp (LO) circuit. Refer to EXL-70. Is the headlamp (LO) circuit normal?

YES

NO

>> Replace IPDM E/R.

>> Repair or replace the malfunctioning part.

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PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

< SYMPTOM DIAGNOSIS >

[XENON TYPE]

PARKING, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON

Description INFOID:000000010576376

The parking, side marker, license plate, tail lamps and each illumination are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000010576377

1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-90, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

PCONSULT 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.

3. TAIL LAMP CIRCUIT INSPECTION

Check the tail lamp circuit. Refer to EXL-89.

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

[XENON TYPE] < SYMPTOM DIAGNOSIS > BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description INFOID:0000000010576378

The front fog lamps are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000010576379 1. COMBINATION SWITCH INSPECTION

Check the combination switch. Refer to BCS-90, "Symptom Table".

Is the combination switch normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

©CONSULT DATA MONITOR

Select "FR FOG REQ" of IPDM E/R data monitor item.

With operating the front fog lamp switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|--------------|---|-----|----------------|
| FR FOG REQ | Front fog lamp switch (Lighting switch 2ND) | ON | On |
| | | OFF | Off |

Is the item status normal?

YES >> GO TO 3.

NO >> Replace BCM.

3. FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-76.

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R.

NO >> Repair or replace the malfunctioning part.

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< PRECAUTION > [XENON TYPE]

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

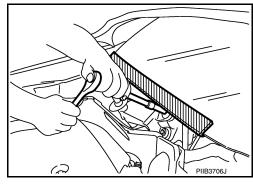
WARNING:

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.

Precaution for Procedure without Cowl Top Cover

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precautions For Xenon Headlamp Service

INFOID:0000000010576381

INFOID:0000000011008273

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- · Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

PRECAUTIONS

[XENON TYPE] < PRECAUTION >

(Turning it ON outside the lamp case may cause fire or visual impairments.)

Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

Precautions for Removing Battery Terminal

When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

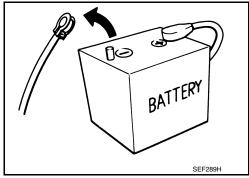
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

· For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

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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PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Description INFOID:0000000010576382

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 luggage room.)

NOTE:

Do not remove the temporary tire, jack and on-vehicle tool.

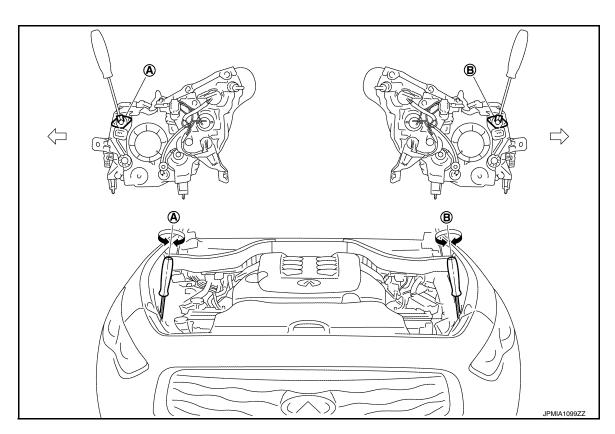
Wipe out dirt on the headlamp.

CAUTION:

Never use organic solvent (thinner, gasoline etc.)

- · Ride alone on the driver seat.
- Headlamp aiming switch sets to "0". (with manual headlamp aiming control system.)

AIMING ADJUSTMENT SCREW



Headlamp RH (UP/DOWN) adjustment screw B. Headlamp LH (UP/DOWN) adjustment screw

⟨
□ : Vehicle center

NOTE:

The figure is the vehicle without AFS. Each adjustment screw is applied to the vehicle with AFS.

HEADLAMP AIMING ADJUSTMENT

[XENON TYPE]

| | Adjustment screw | Screw driver rotation | Facing direction | |
|---|--------------------------|-----------------------|------------------|--|
| ^ | Headlamp RH (UP/DOWN) | Clockwise | UP | |
| Α | neadamp Kn (0F/DOWN) | Counterclockwise | DOWN | |
| В | Headlems I H (LID/DOM/N) | Clockwise | UP | |
| В | Headlamp LH (UP/DOWN) | Counterclockwise | DOWN | |

Aiming Adjustment Procedure

INFOID:0000000010576383

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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 headlamp center and the screen.
- 3. Start the engine. Turn the headlamp (LO) ON.

NOTE:

Shut off the headlamp light with the board to prevent from illuminating the adjustment screen.

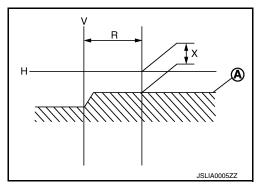
CAUTION:

Never cover the lens surface with a tape etc. The lens is made of resin.

4. 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 \pm 175 mm (13.78 \pm 6.89 in)

Low beam distribution on the screen

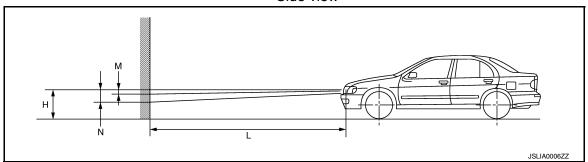


5. Adjust the cutoff line height (X) with the aiming adjustment screw so as to enter in the adjustment range (M–N) according to the horizontal center line of headlamp (H).

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



Distance between the headlamp center and the screen (L) : 10 m (32.8 ft)

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

FRONT FOG LAMP AIMING ADJUSTMENT

Description INFOID:000000010576384

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 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.

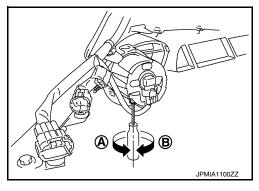
A: UP

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.



INFOID:0000000010576385

Aiming Adjustment Procedure

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. Turn the front fog lamp ON.

NOTE:

Shut off the front fog lamp 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.

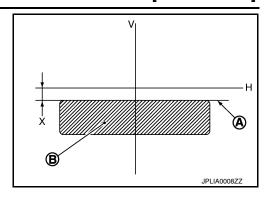
4. Adjust the cutoff line height (A) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and (A) becomes 200 mm (7.87 in).

FRONT FOG LAMP AIMING ADJUSTMENT

< PERIODIC MAINTENANCE >

[XENON TYPE]

Front fog lamp light distribution on the screen



A : Cutoff line

B : High illuminance area

H : Horizontal center line of front fog lampV : Vertical center line of front fog lamp

X : Cutoff line height

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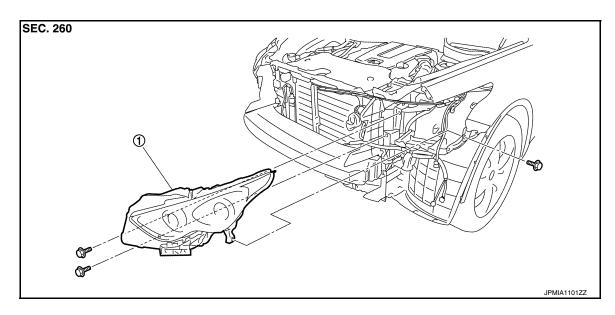
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REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

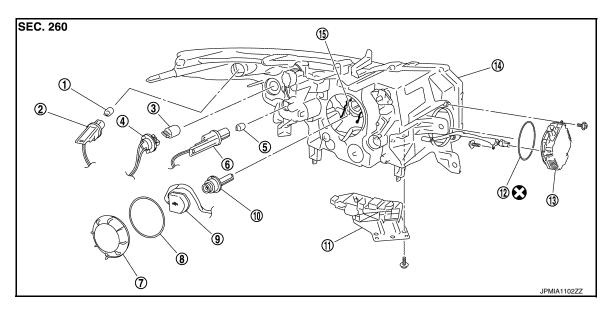
REMOVAL



1. Front combination lamp

DISASSEMBLY

Without AFS



- 1. Front side marker lamp bulb
- 4. Front turn signal lamp bulb socket
- 7. Resin cap
- 10. Xenon bulb
- 13. HID control unit

- 2. Front side marker lamp bulb socket
- 5. Parking lamp bulb
- 8. Seal packing
- 11. Bumper bracket
- 14. Headlamp housing assembly
- . Front turn signal lamp bulb
- 6. Parking lamp bulb socket
- 9. Xenon bulb socket
- 12. Seal packing
- 15. Retaining spring

: Always replace after every disassembly.

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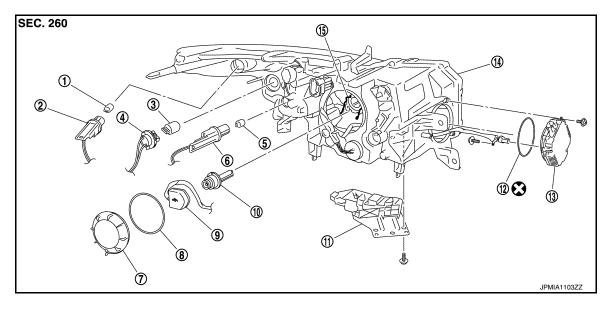
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- 1. Front side marker lamp bulb
- 4. Front turn signal lamp bulb socket
- 7. Resin cap
- 10. Xenon bulb
- 13. HID control unit

- 2. Front side marker lamp bulb socket
- 5. Parking lamp bulb
- 8. Seal packing
- 11. Bumper bracket
- 14. Headlamp housing assembly
- Front turn signal lamp bulb
- 6. Parking lamp bulb socket
- 9. Xenon bulb socket
- 12. Seal packing
- 15. Retaining spring

Removal and Installation

REMOVAL

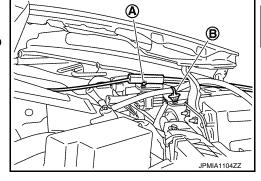
CAUTION:

Disconnect the battery negative terminal or remove the fuse.

- 1. Remove the front bumper fascia. Refer to EXT-12, "Exploded View".
- 2. Remove the headlamp mounting bolts.

: Always replace after every disassembly.

- 3. Remove the holding clip (A)* and the harness clip (B).
 - *: Left side only
- 4. Pull out the headlamp assembly forward the vehicle.
- Disconnect the connector before removing the headlamp assembly.



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to <a>EXL-218, "Description".

Replacement

CAUTION:

Revision: 2015 February

- Disconnect the battery negative terminal or remove 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.

EXL-223

· Never touch bulb by hand while it is lit or right after being turned off.

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2015 QX70

< REMOVAL AND INSTALLATION >

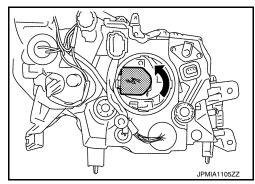
 Never leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.

HEADLAMP BULB

- Remove the engine room cover*. Refer to <u>EM-184, "Exploded View"</u>.
 *: VK Engine Models
- 2. Remove the fender rubber protector. Keep a service area.
- Rotate the resin cap counterclockwise and unlock it.
- 4. Rotate the bulb socket counterclockwise and unlock it.
- 5. Remove the retaining spring lock. Remove the bulb from the headlamp.

CAUTION:

Never break the xenon bulb ceramic tube when replacing the bulb.



PARKING LAMP BULB

- Remove the engine room cover*. Refer to <u>EM-184, "Exploded View"</u>.
 *: VK Engine Models
- 2. Remove the fender rubber protector. Keep a service area.
- 3. Rotate the bulb socket counterclockwise and unlock it.
- 4. Remove the bulb from the bulb socket.

FRONT TURN SIGNAL LAMP BULB

- Remove the engine room cover*. Refer to <u>EM-184, "Exploded View"</u>.
 *: VK Engine Models
- 2. Remove the fender rubber protector. Keep a service area.
- Rotate the bulb socket counterclockwise and unlock it.
- 4. Remove the bulb from the bulb socket.

FRONT SIDE MARKER LAMP BULB

- Remove the engine room cover*. Refer to <u>EM-184, "Exploded View"</u>.
 *: VK Engine Models
- 2. Remove the fender rubber protector. Keep a service area.
- Rotate the bulb socket counterclockwise and unlock it.
- Remove the bulb from the bulb socket.

Disassembly and Assembly

INFOID:0000000010576389

DISASSEMBLY

- Rotate the resin cap counterclockwise and unlock it.
- 2. Rotate the xenon bulb socket counterclockwise and unlock it.
- 3. Remove the retaining spring lock. Remove the xenon bulb.
- Remove the bumper bracket.
- 5. Remove the HID control unit installation screw.
- 6. Remove the screw. Disconnect the connector from HID control unit.
- 7. Pull out the xenon bulb socket from the headlamp housing assembly.
- 8. Rotate the parking lamp bulb socket counterclockwise and unlock it.
- 9. Remove the bulb from the parking lamp bulb socket.
- Rotate the front turn signal lamp bulb socket counterclockwise and unlock it.
- 11. Remove the bulb from the front turn signal lamp bulb socket.

FRONT COMBINATION LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

- 12. Rotate the front side marker lamp bulb socket counterclockwise and unlock it.
- 13. Remove the bulb from the front side marker lamp bulb socket.

ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:

- Install HID control unit securely.
- After installing the bulb, install the resin cap and the bulb socket securely for watertightness.

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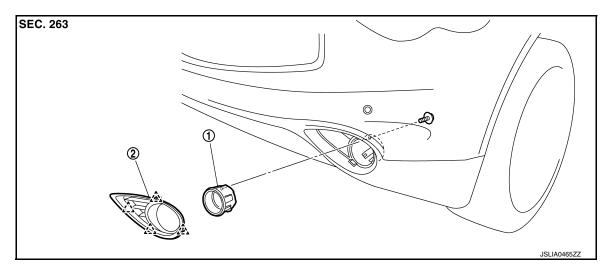
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FRONT FOG LAMP

Exploded View



Front fog lamp

2. Front fog lamp finisher



Removal and Installation

INFOID:0000000010576391

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- Remove the front fender protector. Keep a service area. Refer to <u>EXT-25</u>, "<u>FENDER PROTECTOR</u>: Exploded View".
- 2. Remove the front fog lamp connector.
- 3. Remove the screw.
- 4. Disengage the pawl. And then remove the front fog lamp.

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to EXL-220, "Description".

Replacement

CAUTION:

- · Disconnect the battery negative terminal or remove the fuse.
- Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
 Never touch bulb by hand while it is lit or right after 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

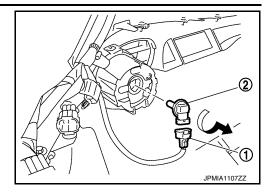
1. Remove the front fender protector. Keep a service area. Refer to EXT-25, "FENDER PROTECTOR: Exploded View".

FRONT FOG LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

- 2. Remove the front fog lamp bulb connector (1).
- 3. Rotate the bulb (2) counterclockwise and unlock it.



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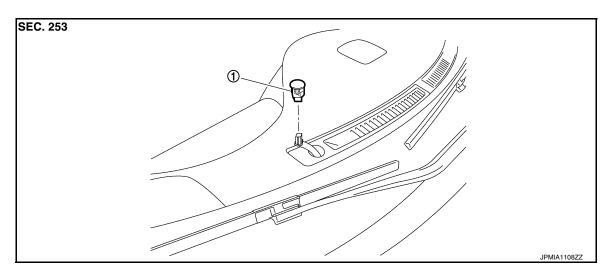
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OPTICAL SENSOR

Exploded View



1. Optical sensor

Removal and Installation

INFOID:0000000010576394

REMOVAL

- Insert an appropriate tool between the optical sensor and the instrument upper panel. Pull out the optical sensor upward.
- 2. Disconnect the connector. Remove the optical sensor.

INSTALLATION

Install in the reverse order of removal.

LIGHTING & TURN SIGNAL SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

LIGHTING & TURN SIGNAL SWITCH

Exploded View

The lighting & turn signal switch is integrated in the combination switch. <u>BCS-94, "Exploded View"</u>.

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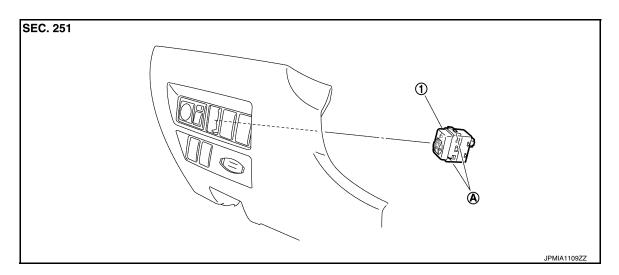
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HEADLAMP AIMING SWITCH

Exploded View



- 1. Headlamp aiming switch
- A. Pawls

Removal and Installation

INFOID:0000000010576397

REMOVAL

- 1. Remove the instrument driver lower panel. Refer to IP-12, "Exploded View".
- 2. Disengage the pawls. And then remove the headlamp aiming switch.

INSTALLATION

Install in the reverse order of removal.

HAZARD SWITCH

< REMOVAL AND INSTALLATION >

[XENON TYPE]

| Н | $\Delta 74$ | RD | N2. | /۱٦ | ГСН |
|---|---------------------------------|-----|--------------|-------|-----|
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Exploded View

The hazard switch is integrated in the multifunction switch. Refer to AV-142, "Exploded View".

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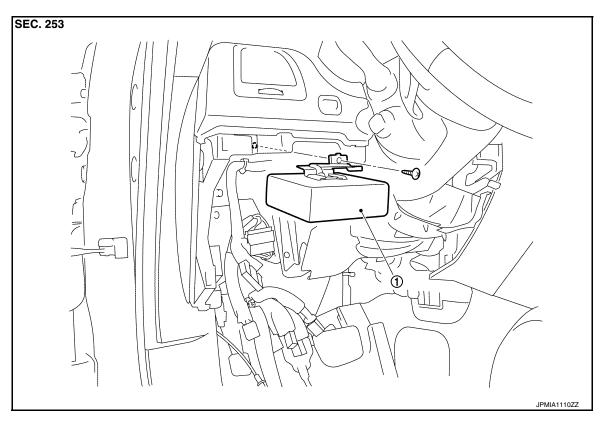
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AFS CONTROL UNIT

Exploded View



1. AFS control unit

Removal and Installation

INFOID:0000000010576400

REMOVAL

- 1. Remove the instrument driver lower panel. Refer to IP-12, "Exploded View".
- 2. Remove the AFS control unit mounting bolt.
- 3. Disconnect the AFS control unit connector.
- Remove the AFS control unit.

INSTALLATION

Install in the reverse order of removal.

STEERING ANGLE SENSOR

< REMOVAL AND INSTALLATION > [XENON TYPE]

STEERING ANGLE SENSOR

Removal and Installation

Refer to SR-14, "Removal and Installation".

Revision: 2015 February EXL-233 2015 QX70

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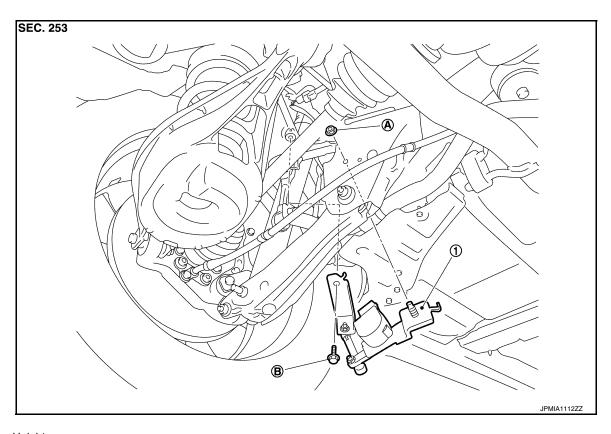
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HEIGHT SENSOR

Exploded View



- Height sensor
- A. Height sensor mounting nut
- B. Height sensor lever link bracket mounting bolt

Removal and Installation

INFOID:0000000010576403

REMOVAL

- 1. Remove the height sensor mounting nut.
- 2. Remove the height sensor lever link bracket mounting bolt.
- 3. Disconnect the height sensor connector.
- 4. Remove the height sensor.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform the levelizer adjustment when removing the height sensor. Refer to <u>EXL-8</u>, <u>"LEVELIZER ADJUSTMENT : Special Repair Requirement"</u>.

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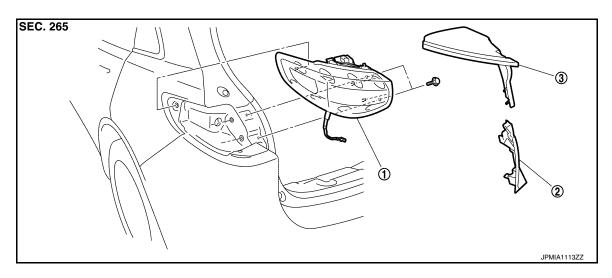
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REAR COMBINATION LAMP

Exploded View INFOID:0000000010576404

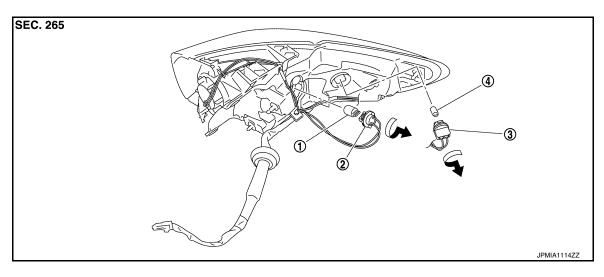
REMOVAL



1. Rear combination lamp

Rear combination lamp lower finisher 3. Rear combination lamp upper finisher

DISASSEMBLY



- Rear turn signal lamp bulb
- Rear side marker lamp bulb
- Rear turn signal lamp bulb socket
- Rear side marker lamp bulb socket

Removal and Installation

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the rear combination lamp lower and upper finisher.
- 2. Remove the rear combination lamp mounting bolts.
- 3. Disconnect the rear combination lamp connector.
- Pull the rear combination lamp toward outside of the vehicle. Remove the rear combination lamp.

INSTALLATION

Install in the reverse order of removal.

EXL-235 Revision: 2015 February 2015 QX70 **EXL**

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INFOID:0000000010576405

REAR COMBINATION LAMP

[XENON TYPE]

< REMOVAL AND INSTALLATION >

Replacement

CAUTION:

- Disconnect the battery negative terminal or remove the fuse.
- · Never touch the glass of bulb directly by hand. Keep grease and other oily matters away from it.
- · Never touch bulb by hand while it is lit or right after 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

Replacement integral with rear combination lamp assembly. Refer to EXL-235, "Exploded View".

REAR SIDE MARKER LAMP BULB

- 1. Remove the rear combination lamp. Refer to <a>EXL-235, "Exploded View".
- 2. Rotate the rear side marker lamp bulb socket counterclockwise and unlock it.
- 3. Remove the bulb from the rear side marker lamp bulb socket.

REAR TURN SIGNAL LAMP BULB

- 1. Remove the rear combination lamp. Refer to EXL-235, "Exploded View".
- 2. Rotate the rear turn signal lamp bulb socket counterclockwise and unlock it.
- 3. Remove the bulb from the rear turn signal lamp bulb socket.

[XENON TYPE]

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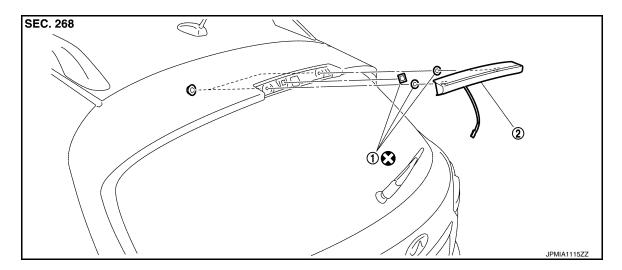
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INFOID:0000000010576408

HIGH-MOUNTED STOP LAMP

Exploded View



1. Seal packing

2. High-mounted stop lamp

: Always replace after every disassembly.

Removal and Installation

REMOVAL

- 1. Remove the back door plate. Refer to INT-34, "Exploded View".
- 2. Remove the high-mounted stop lamp mounting nuts.
- 3. Disconnect the high-mounted stop lamp connector.
- 4. Pull the high-mounted stop lamp toward rear of the vehicle. Remove the high-mounted stop lamp.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

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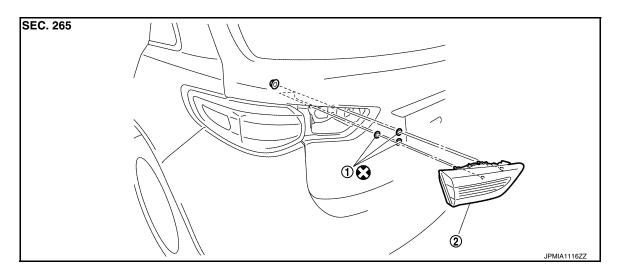
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BACK-UP LAMP

Exploded View INFOID:0000000010576409



Seal packing

Back-up lamp

: Always replace after every disassembly.

Removal and Installation

INFOID:0000000010576410

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- Remove the back door finisher inner. Refer to <u>INT-34, "Exploded View"</u>.
- 2. Remove the back-up lamp mounting nuts.
- Disconnect the back-up lamp connector. And then remove the back-up lamp.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Seal packing cannot be reused.

Replacement INFOID:0000000010576411

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.

BACK-UP LAMP BULB

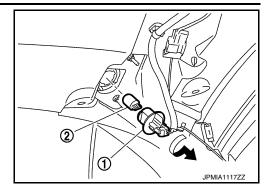
1. Remove the back door finisher inner. Refer to INT-34, "Exploded View".

BACK-UP LAMP

< REMOVAL AND INSTALLATION >

[XENON TYPE]

- 2. Rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



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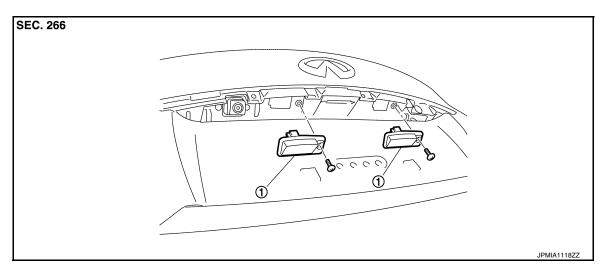
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LICENSE PLATE LAMP

Exploded View



License plate lamp

Removal and Installation

INFOID:0000000010576413

CAUTION:

Disconnect the battery negative terminal or remove the fuse.

REMOVAL

- 1. Remove the door handle cover. Refer to EXT-50, "Exploded View".
- Remove the screw. And then remove the license plate lamp.
- 3. Disconnect the license plate lamp connector.

INSTALLATION

Install in the reverse order of removal.

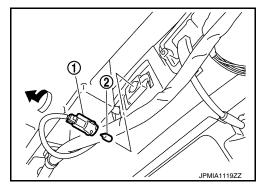
Replacement INFOID:000000010576414

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 back door finisher inner. Refer to INT-34, "Exploded View".
- 2. Rotate the bulb socket (1) counterclockwise and unlock it.
- 3. Remove the bulb (2) from the socket.



SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[XENON TYPE]

INFOID:0000000010576415

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

| Item | | Туре | Wattage (W) |
|------------------------|------------------------|---------------|-------------|
| | Headlamp (HI/LO) | D2S (Xenon) | 35 |
| Front combination lamp | Front turn signal lamp | WY21W (Amber) | 21 |
| Front combination lamp | Parking lamp | W5W | 5 |
| | Front side marker lamp | W5W | 5 |
| Front fog lamp | | H8 | 35 |
| | Stop lamp/Tail lamp | LED | _ |
| Rear combination lamp | Rear turn signal lamp | W21W | 21 |
| | Rear side marker lamp | W5W | 5 |
| Back-up lamp | | W21W | 21 |
| License plate lamp | | W5W | 5 |
| High-mounted stop lamp | | LED | _ |

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