# SECTION EXL
# EXTERIOR LIGHTING SYSTEM

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# PRECAUTION

## PRECAUTIONS

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

INFOID:0000000014388704

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

**WARNING:**

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service.**

### Precaution for Work

INFOID:0000000014388705

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

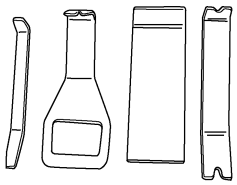
# PREPARATION

## PREPARATION

### Special Service Tool

INFOID:0000000014388706

The actual shape of the tools may differ from those illustrated here.

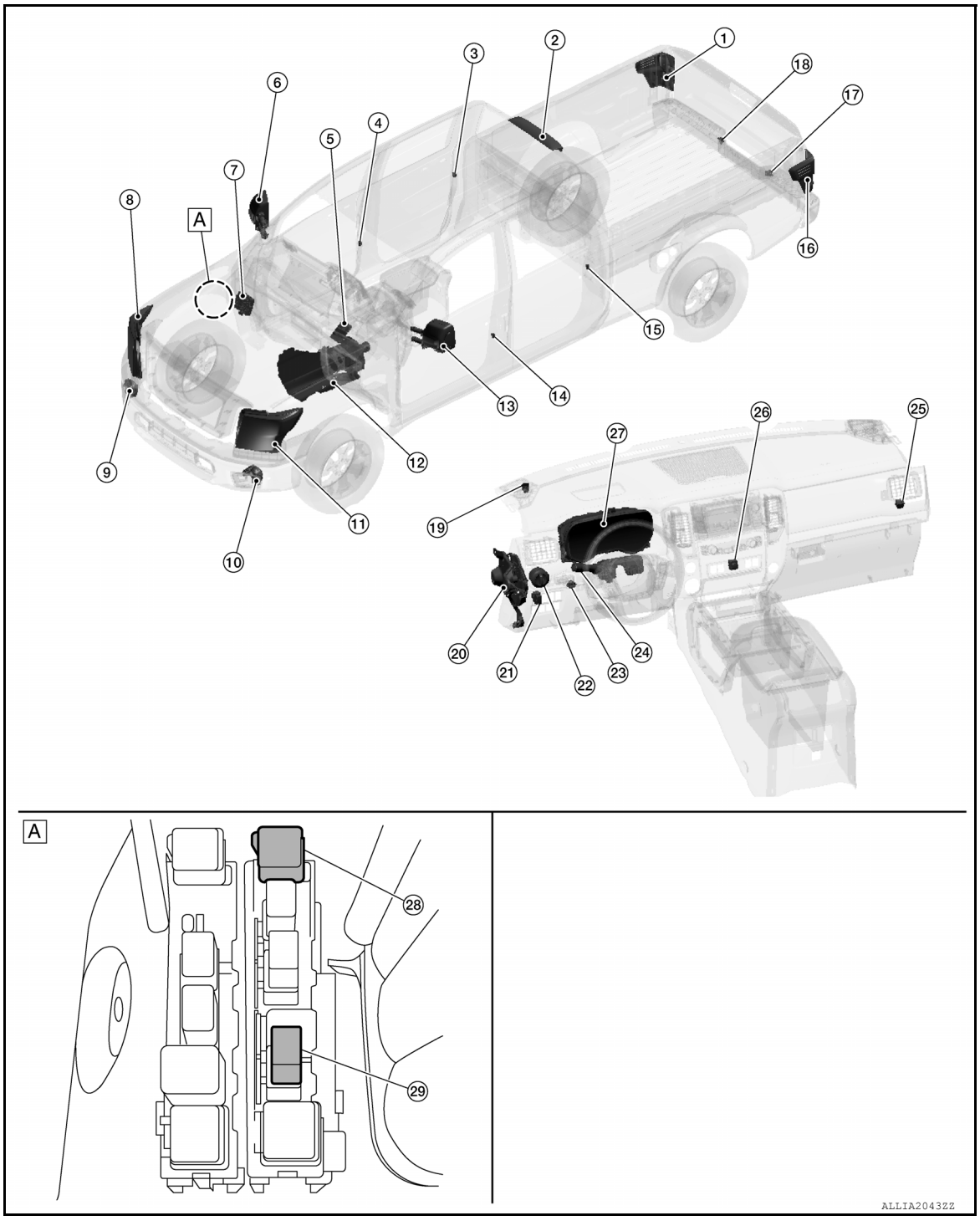
| Tool number<br>(TechMate No.)<br>Tool name | Description |
|---|---|
| —<br>(J-46534)<br>Trim Tool Set<br>  <br>AWJIA0483ZZ | Removing trim components |

# SYSTEM DESCRIPTION

## COMPONENT PARTS

### Component Parts Location

INFOID:0000000014388707




A. Relay box

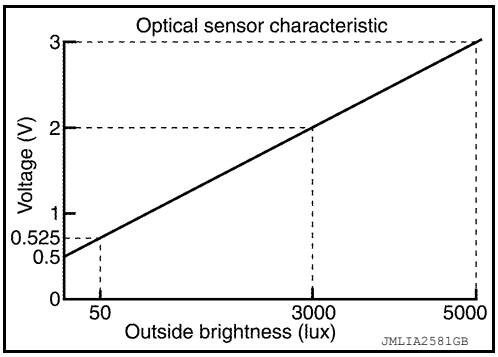
| No. | Part | Function |
|---|---|---|
| 1. | Rear combination lamp RH | Refer to EXL-152, "Bulb Specifications". |
| 2. | High-mounted stop lamp assembly | Refer to EXL-152, "Bulb Specifications". |
| 3. | Rear door switch RH | Transmits the door open signal to the BCM to operate the autolight system.<br>Refer to DLK-15, "Front Door Switch" for front door switch or DLK-16, "Rear Door Switch" for rear door switch. |
| 4. | Front door switch RH | |
| 5. | BCM | • Detects each switch condition by the lighting switch, front fog lamp switch, and combination switch reading function.<br>• Judges that the exterior lamps are turned ON according to the vehicle condition.<br>• Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication).<br>• Requests high beam indicator lamp ON to the combination meter (via CAN communication).<br>• Judges the outside brightness from the optical sensor signal.<br>• Judges the ON/OFF timing according to the vehicle condition.<br>• Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition.<br>• Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| 6. | Door mirror RH (turn signal) | Refer to EXL-152, "Bulb Specifications". |
| 7. | IPDM E/R | • Supplies voltage to the load according to the request from BCM (via CAN communication).<br>• Refer to PCS-5, "Component Parts Location" for detailed installation location. |
| 8. | Front combination lamp RH | Refer to EXL-152, "Bulb Specifications". |
| 9. | Front fog lamp assembly RH | Refer to EXL-152, "Bulb Specifications". |
| 10. | Front fog lamp assembly LH | Refer to EXL-152, "Bulb Specifications". |
| 11. | Front combination lamp LH | Refer to EXL-152, "Bulb Specifications". |
| 12. | Transmission range switch (Cummins 5.0L) | • Supplies ground to the back-up lamp relay to illuminate the back-up lamps.<br>• Refer to TM-15, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| | TCM (VK56VD) | • Supplies ground to the back-up lamp relay to illuminate the back-up lamps.<br>• Refer to TM-266, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| 13. | Door mirror LH (turn signal) | Refer to EXL-152, "Bulb Specifications". |
| 14. | Front door switch LH | Transmits the door open signal to the BCM to operate the autolight system.<br>Refer to DLK-15, "Front Door Switch" for front door switch or DLK-16, "Rear Door Switch" for rear door switch. |
| 15. | Rear door switch LH | |
| 16. | Rear combination lamp LH | Refer to EXL-152, "Bulb Specifications". |
| 17. | License plate lamp LH | Refer to EXL-152, "Bulb Specifications". |
| 18. | License plate lamp RH | Refer to EXL-152, "Bulb Specifications". |
| 19. | Optical sensor | Refer to EXL-10, "Optical Sensor". |
| 20. | Parking brake switch | • Transmits the parking brake switch signal to the combination meter to operate the daytime running light system.<br>• Refer to PB-12, "Removal and Installation" for detailed installation location. |
| 21. | Front fog lamp switch | Sends signals to the BCM for fog lamp operation. |
| 22. | Lighting switch | Sends signals to the BCM for headlamp operation. |
| 23. | Stop lamp switch | • Transmits power to the stop lamp relay to illuminate the stop lamps.<br>• Refer to BR-21, "Exploded View" for detailed installation location. |
| 24. | Combination switch (Lighting and turn signal switch) | Refer to MWI-8, "METER SYSTEM : Component Parts Location" for detailed installation location. |
| 25. | Back-up lamp relay | Supplies voltage to the back-up lamps according to control from transmission range switch (Cummins 5.0L) or TCM (VK56VD). |
| 26. | Hazard switch | Refer to EXL-10, "Hazard Switch". |

| No. | Part | Function |
|---|---|---|
| 27. | Combination meter | Refer to MWI-12, "METER SYSTEM : Combination Meter". |
| 28. | Stop lamp relay | Supplies voltage to the stop lamps according to stop lamp switch operation. |
| 29. | Daytime running light relay | Refer to EXL-10, "Daytime Running Light Relay". |

## Optical Sensor

INFOID:0000000014388708

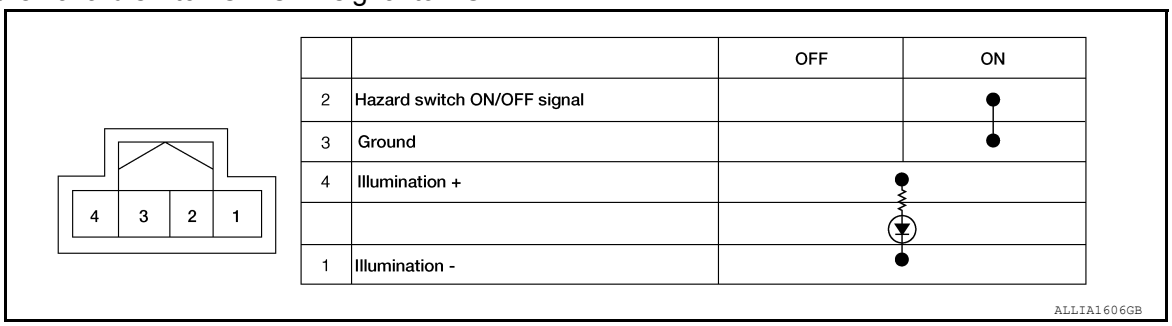
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.




## Hazard Switch

INFOID:0000000014388709

Inputs the hazard switch ON/OFF signal to BCM.




## Daytime Running Light Relay

INFOID:0000000014388710

Power is provided to the daytime running light relay according to request from IPDM E/R.

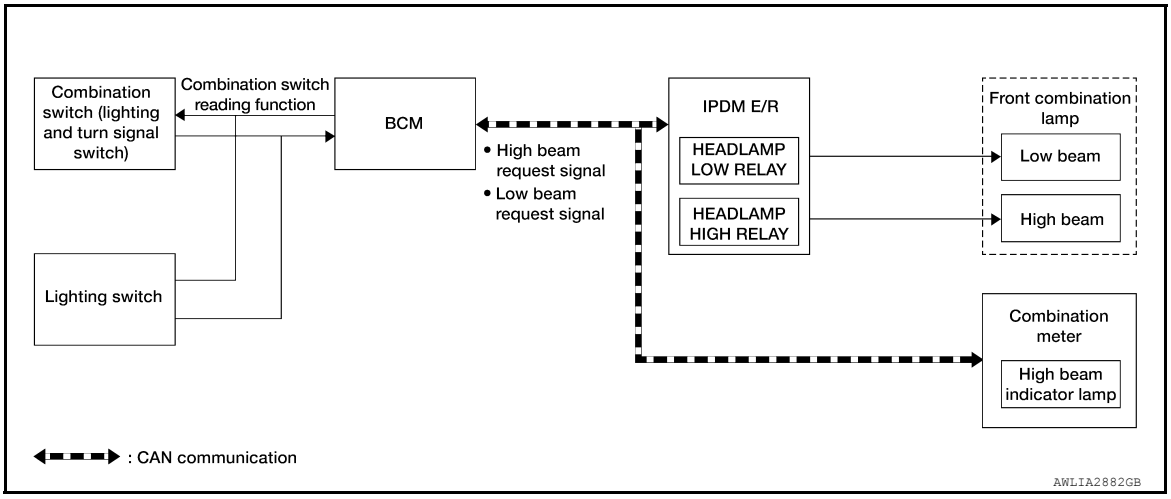
# SYSTEM

## HEADLAMP SYSTEM

### HEADLAMP SYSTEM : System Description

INFOID:0000000014388711

#### SYSTEM DIAGRAM




#### SYSTEM DESCRIPTION

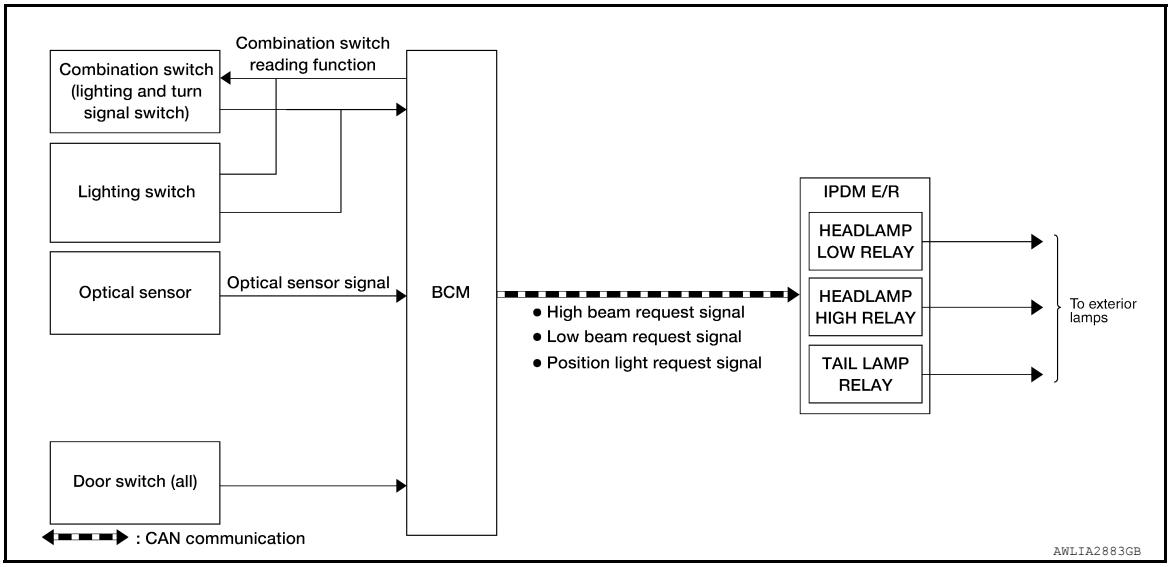
Control of the headlamp system operation is dependent upon the position of the lighting switch and combination switch (lighting and turn signal switch). When the lighting switch is placed in the 2nd position, the BCM (body control module) receives input requesting the headlamps and park lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. When energized, these relays direct power to the respective headlamps, which then illuminate.

## AUTO LIGHT SYSTEM

### AUTO LIGHT SYSTEM : System Description

INFOID:0000000014388712

#### SYSTEM DIAGRAM




#### SYSTEM DESCRIPTION

- BCM (Body Control Module) controls auto light operation according to signals from optical sensor, lighting switch, and ignition switch.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, side marker, license plate, tail and headlamps according to CAN communication signals from BCM.

- Optical sensor detects ambient brightness of 800 to 2,500 lux. And optical sensor converts light (lux) to voltage, then sends the optical sensor signal to BCM.

OUTLINE

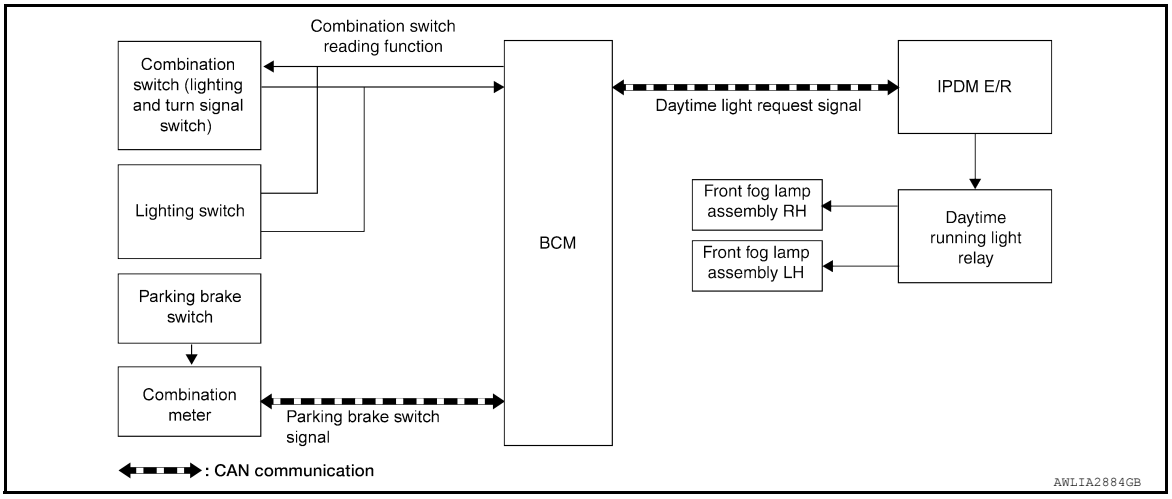
The auto light control system has an optical sensor that detects outside brightness.
When the lighting switch is in AUTO position, it automatically turns ON/OFF the parking, side marker, license plate, tail and headlamps in accordance with the ambient light. Sensitivity can be adjusted in four steps. For the details of the setting, Refer to BCS-23, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

# DAYTIME RUNNING LIGHT SYSTEM

## DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:0000000014388713

### SYSTEM DIAGRAM




### SYSTEM DESCRIPTION

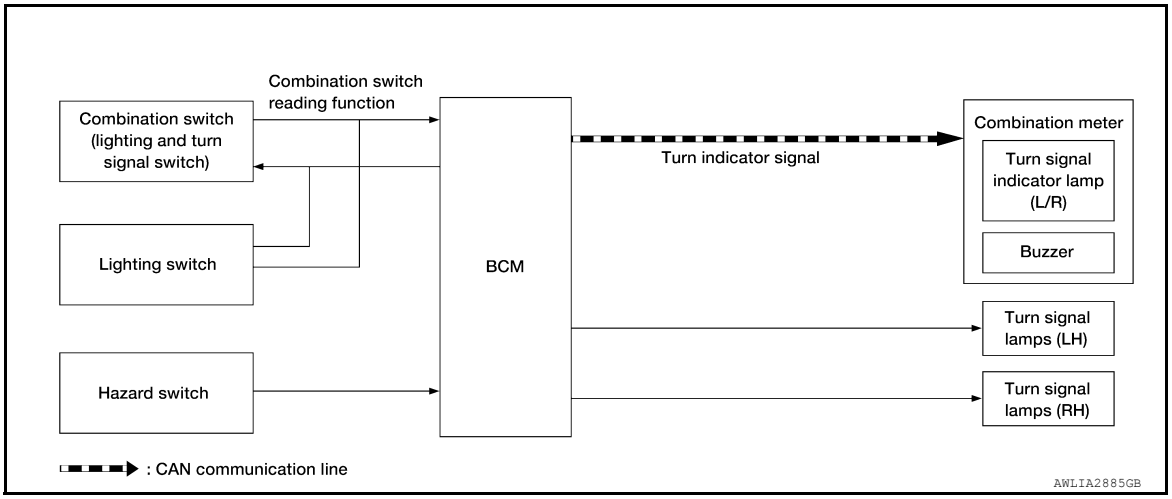
The headlamp system for Canada vehicles is equipped with a daytime running light relay that activates the front fog lamps whenever the engine is operating. If the parking brake is applied before the engine is started the daytime running lights will not be illuminated. The daytime running lights will illuminate once the parking brake is released. Thereafter, the daytime running lights will continue to operate when the parking brake is applied.

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

INFOID:0000000014388714

### SYSTEM DIAGRAM




### OUTLINE

Turn signal lamp and the hazard warning lamp are controlled by combination switch (lighting and turn signal switch) reading function and the flasher control function of BCM.

### TURN SIGNAL LAMP OPERATION

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

### TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL OPERATION

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

### 3-TIME FLASH FUNCTION

- By a short touch of the turn signal lever, BCM blinks the turn signal three times in the selected direction.
- Cancels the operation with a short touch of the turn signal lever in the reverse direction during the 3-time flasher function operation.

### HIGH FLASHER OPERATION

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

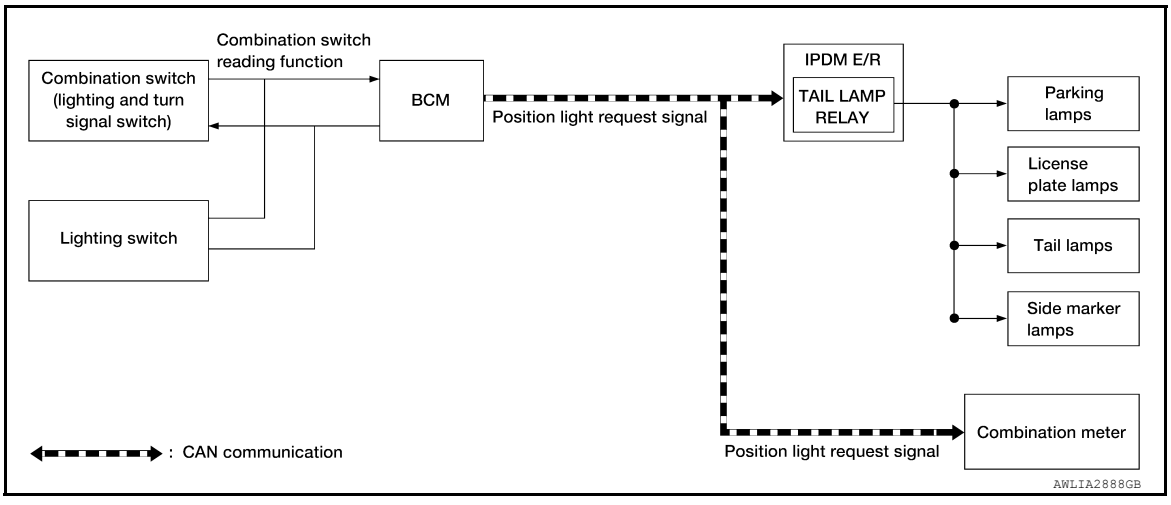
**NOTE:**
The blinking speed is normal while operating the hazard warning lamp.

## PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

## PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description

INFOID:0000000014388715

### SYSTEM DIAGRAM




### OUTLINE

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

### PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP OPERATION

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

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO and the auto light function ON judgment
- Lighting switch AUTO with the front fog lamp switch ON and the ignition switch ON

• IPDM E/R turns the integrated tail lamp relay ON and turns the parking, 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.

## PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : Fail-Safe

*INFOID:0000000014388716*

### CAN COMMUNICATION CONTROL

When CAN communication with 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 BCM

| Control part | Fail-safe operation |
|---|---|
| • Parking lamps<br>• License plate lamps<br>• Illumination<br>• Tail lamps<br>• Side marker lamps | • Turns ON the tail lamp relay when the ignition switch is turned ON<br>• Turns OFF the tail lamp relay when the ignition switch is turned OFF |

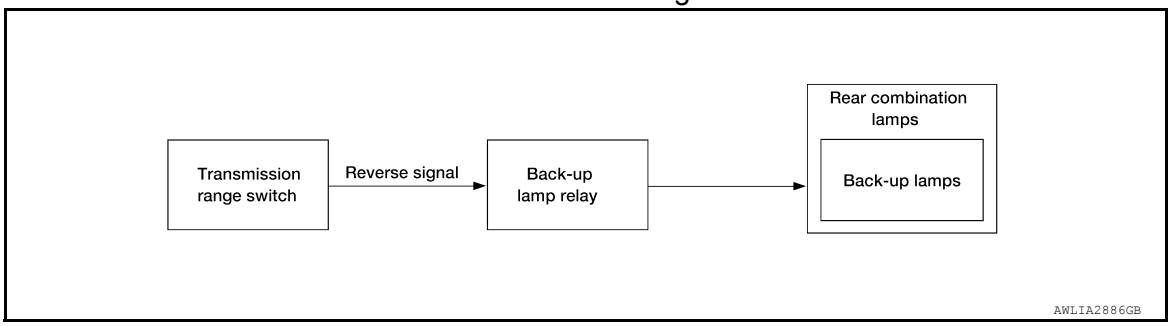
# BACK-UP LAMP SYSTEM

## BACK-UP LAMP SYSTEM : System Description

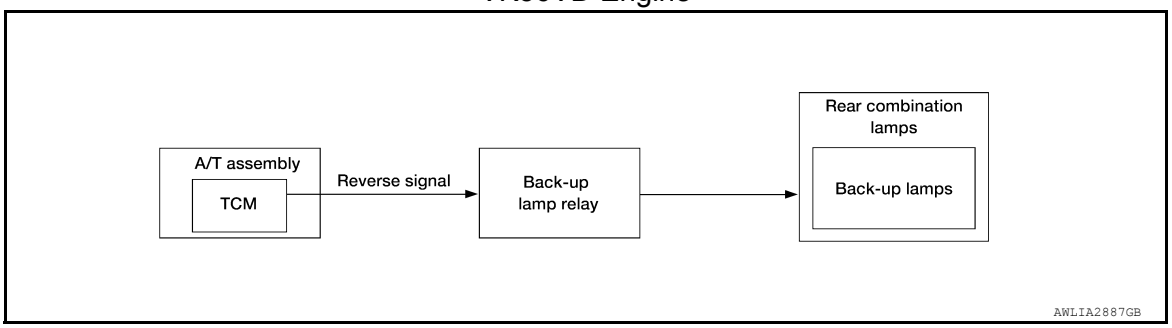
*INFOID:0000000014388717*

### SYSTEM DIAGRAM

Cummins 5.0L Engine




VK56VD Engine




### OUTLINE

Back-up lamp is controlled by transmission range switch (Cummins 5.0L engine) or TCM (VK56VD engine) control function of back-up lamp relay.

### BACK-UP LAMP OPERATION

• Back-up lamp relay detects the transmission range switch signal (Cummins 5.0L engine) or TCM signal (VK56VD engine).
• Back-up lamp relay then powers back-up lamps.

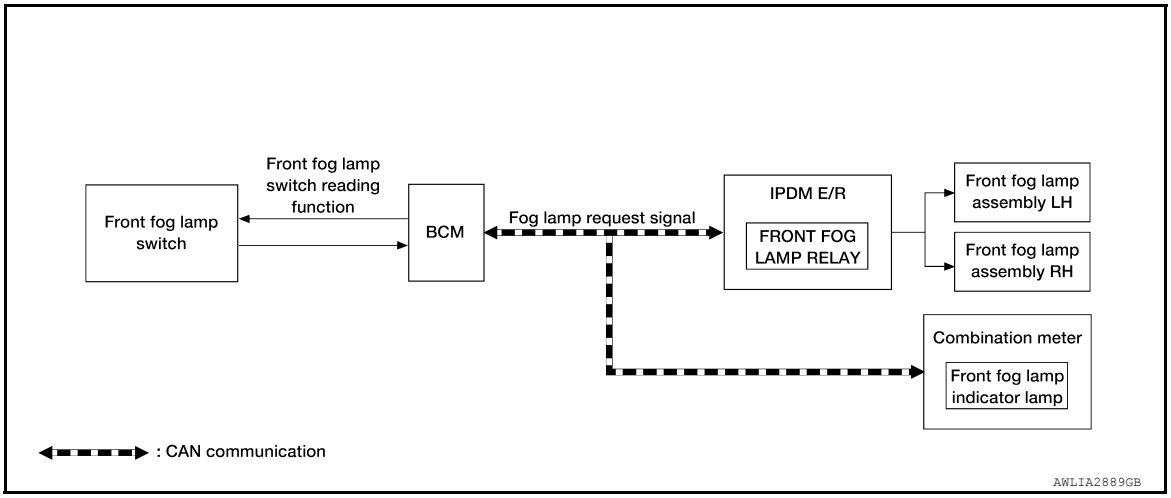
Back-up lamp ON condition:
- Ignition switch ON
- A/T shift selector position R

# FRONT FOG LAMP SYSTEM

## FRONT FOG LAMP SYSTEM : System Description

INFOID:0000000014388718

### SYSTEM DIAGRAM




### OUTLINE

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

### FRONT FOG LAMP OPERATION

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

Front fog lamp ON condition:
- Front fog lamp switch ON, and any of the following conditions are satisfied (except for the high beam ON):
- Lighting switch 2ND
- Lighting switch AUTO and the ignition switch ON

IPDM E/R turns the integrated front fog lamp relay ON and turns the front fog lamps ON according to the front fog lights request signal.
Combination meter turns the front fog lamp indicator lamp ON according to the front fog lights request signal.

## FRONT FOG LAMP SYSTEM : Fail-Safe

INFOID:0000000014388719

### CAN COMMUNICATION CONTROL

When CAN communication with 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 BCM

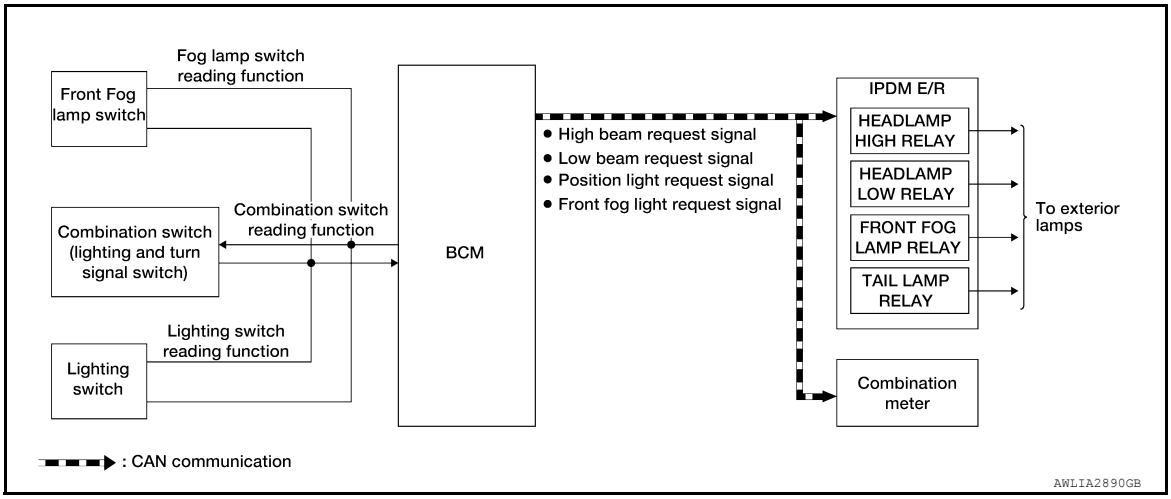
| Control part | Fail-safe operation |
|---|---|
| Front fog lamp | Front fog lamp relay OFF |

# EXTERIOR LAMP BATTERY SAVER SYSTEM

# EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000014388720

## SYSTEM DIAGRAM




## OUTLINE

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

Control by BCM:

- Combination switch (lighting and turn signal switch) reading function
- Lighting switch reading function
- Exterior lamp battery saver function

Control by IPDM E/R:

- Relay control function
- BCM turns the exterior lamp OFF* according to the vehicle status when ignition switch is turned OFF while exterior lamp is ON to prevent battery discharge.

*: Headlamp (HI/LO), front fog lamp, parking lamp. license plate lamp, side marker lamp and tail lamp.

## EXTERIOR LAMP BATTERY SAVER ACTIVATION

- BCM activates the timer and turns the exterior lamp OFF 45 seconds after the ignition switch is turned from ON→OFF with the exterior lamps ON.
- When in any of following conditions (after the exterior lamp battery saver is activated), exterior lamps can be turned ON:

- Ignition switch is turned from OFF→ACC/ON.
- Lighting switch is changed.
- Front fog lamp switch is changed.

# DIAGNOSIS SYSTEM (BCM)
## COMMON ITEM
### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000014666283

#### APPLICATION ITEM
CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|---|---|
| ECU Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | • The vehicle specification can be read and saved.<br>• The vehicle specification can be written when replacing BCM. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

#### SYSTEM APPLICATION
BCM can perform the following functions:

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | ECU Identification | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock | DOOR LOCK | | × | × | × | × | | |
| Rear window defogger | REAR DEFOGGER | | | × | × | × | | |
| Warning chime | BUZZER | | | × | × | | | |
| Interior room lamp timer | INT LAMP | | | × | × | × | | |
| Exterior lamp | HEADLAMP | | | × | × | × | | |
| Wiper and washer | WIPER | | | × | × | × | | |
| Turn signal and hazard warning lamps | FLASHER | | | × | × | × | | |
| Air conditioner | AIR CONDITIONER | | | × | | | | |
| Intelligent Key system | INTELLIGENT KEY | | × | × | × | × | | |
| Combination switch | COMB SW | | | × | | | | |
| BCM | BCM | × | × | | | × | × | × |
| Immobilizer | IMMU | | × | × | × | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | × | × | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| Signal buffer system | SIGNAL BUFFER | | | × | | | | |

#### FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays it on CONSULT.

| CONSULT screen item | Indication/Unit | Description | |
|---|---|---|---|
| Vehicle Speed | km/h | Vehicle speed at the moment a particular DTC is detected | |
| Odo/Trip Meter | km | Total mileage (Odometer value) at the moment a particular DTC is detected | |
| Vehicle Condition | SLEEP>LOCK | Power position status at the moment a particular DTC is detected* | 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 stopped and selector lever is in 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 | | While turning power supply position from “OFF” to “LOCK”* |
| | OFF>ACC | | While turning power supply position from “OFF” to “ACC” |
| | ON>CRANK | | While turning power supply position from “IGN” to “CRANKING” |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is “OFF”.) to low power consumption mode |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is “LOCK”*.) to low power consumption mode |
| | LOCK | | Power supply position is “LOCK” (Ignition switch OFF)* |
| | 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<br>• The number is 0 when a malfunction is detected now.<br>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON.<br>• 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 - HEADLAMP)

INFOID:0000000014666284

DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| ENGINE STATE [Stop/Stall/Crank/Run] | Indicates engine status received from ECM on CAN communication line. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| TURN SIGNAL R [On/Off] | Indicates condition of combination switch. |
| TURN SIGNAL L [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| HI BEAM SW [On/Off] | |
| HEAD LAMP SW 1 [On/Off] | |
| HEAD LAMP SW 2 [On/Off] | |
| PASSING SW [On/Off] | |
| AUTO LIGHT SW [On/Off] | |
| FR FOG SW [On/Off] | |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| OPTI SEN (DTCT) [V] | Indicates outside brightness voltage signal from optical sensor. |
| OPTI SEN (FILT) [V] | Indicates outside brightness voltage signal from optical sensor filtered by BCM. |

## ACTIVE TEST

| Test Item | Description |
|---|---|
| FR FOG LAMP | This test is able to check front fog lamp operation [On/Off]. |
| DAYTIME RUNNING LIGHT | This test is able to check daytime running lamp operation [On/Off]. |
| ILL DIM SIGNAL | This test is able to check head lamp illumination dimming operation [On/Off]. |

## WORK SUPPORT

| Support Item | Setting | Description |
|---|---|---|
| TWILIGHT ON | MODE2* | Auto lamp function ON. |
| | MODE1 | Auto lamp function OFF. |
| WIPER LINK | MODE4 | This mode is not used. |
| | MODE3* | Wiper link function operates in INT, LOW and HI. |
| | MODE2 | Wiper link function operates in LOW and HI. |
| | MODE1 | Wiper link function OFF. |
| CUSTOM A/LIGHT SETTING | MODE4 | Less sensitive than normal setting (turns ON later). |
| | MODE3 | More sensitive than MODE2. |
| | MODE2 | More sensitive than normal setting (turns ON earlier). |
| | MODE1* | Normal setting. |

| Support Item | Setting | Description |
|---|---|---|
| ILL DELAY SET | MODE 8 | Auto lamp delay timer. |
| | MODE 7 | |
| | MODE 6 | |
| | MODE 4 | |
| | MODE 5 | |
| | MODE 3 | |
| | MODE 2 | |
| | MODE 1* | |

*: Initial setting

# FLASHER

## FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000014666285

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination switch. |
| TURN SIGNAL L [On/Off] | |
| HAZARD SW [On/Off] | Indicates condition of hazard switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |
| RKE-PANIC [On/Off] | Indicates condition of panic alarm signal from Intelligent Key. |

### ACTIVE TEST

| Test Item | Description |
|---|---|
| FLASHER | This test is able to check turn signal lamp operation [Off/LH/RH]. |

### WORK SUPPORT

| Support item | Setting | Description |
|---|---|---|
| 3-TIME FLASHER SETTING | ON* | 3-Time flasher setting ON. |
| | OFF | 3-Time flasher setting OFF. |

* : Initial setting

# COMB SW

## COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:0000000014666286

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| FR WIPER HI [On/Off] | Indicates condition of wiper operation of combination switch. |
| FR WIPER LOW [On/Off] | |
| FR WASHER SW [On/Off] | |
| FR WIPER INT [On/Off] | |

| Monitor Item [Unit] | Description |
|---|---|
| INT VOLUME [1 - 5] | Indicates condition of intermittent wiper [1 - 5] or auto wiper [1 - 4] operation of combination switch. |
| TURN SIGNAL R [On/Off] | Indicates condition of right turn signal operation of combination switch. |
| TURN SIGNAL L [On/Off] | Indicates condition of left turn signal operation of combination switch. |
| TAIL LAMP SW [On/Off] | Indicates condition of tail lamp switch operation of combination switch. |
| HI BEAM SW [On/Off] | Indicates condition of high beam switch operation of combination switch. |
| HEAD LAMP SW 1 [On/Off] | Indicates condition of head lamp switch 1 operation of combination switch. |
| HEAD LAMP SW 2 [On/Off] | Indicates condition of head lamp switch 2 operation of combination switch. |
| PASSING SW [On/Off] | Indicates condition of passing switch operation of combination switch. |
| AUTO LIGHT SW [On/Off] | Indicates condition of auto light switch operation of combination switch. |
| FR FOG SW [On/Off] | Indicates condition of front fog lamp switch operation of combination switch. |

# BATTERY SAVER

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

INFOID:0000000014666287

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

### ACTIVE TEST

| Test item | Description |
|---|---|
| BATTERY SAVER | This test is able to check battery saver operation [On/Off]. |

# DIAGNOSIS SYSTEM (IPDM E/R)

## Diagnosis Description

INFOID:0000000014666288

### 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:

- Rear window defogger
- Front wipers (HI, LO)
- Front fog lamps (if equipped)
- Tail, license and parking lamps
- Daytime running lamps (if equipped)
- Headlamps (HI, LO)
- A/C compressor (magnetic clutch)

Operation Procedure

1. Close the hood and front door RH, and lift the wiper arms from the windshield (to prevent windshield damage due to wiper operation).
   **NOTE:**
   When auto active test is performed with hood opened, sprinkle water on windshield before hand.
2. Turn ignition switch OFF.
3. Turn the ignition switch ON and, within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
5. 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:**

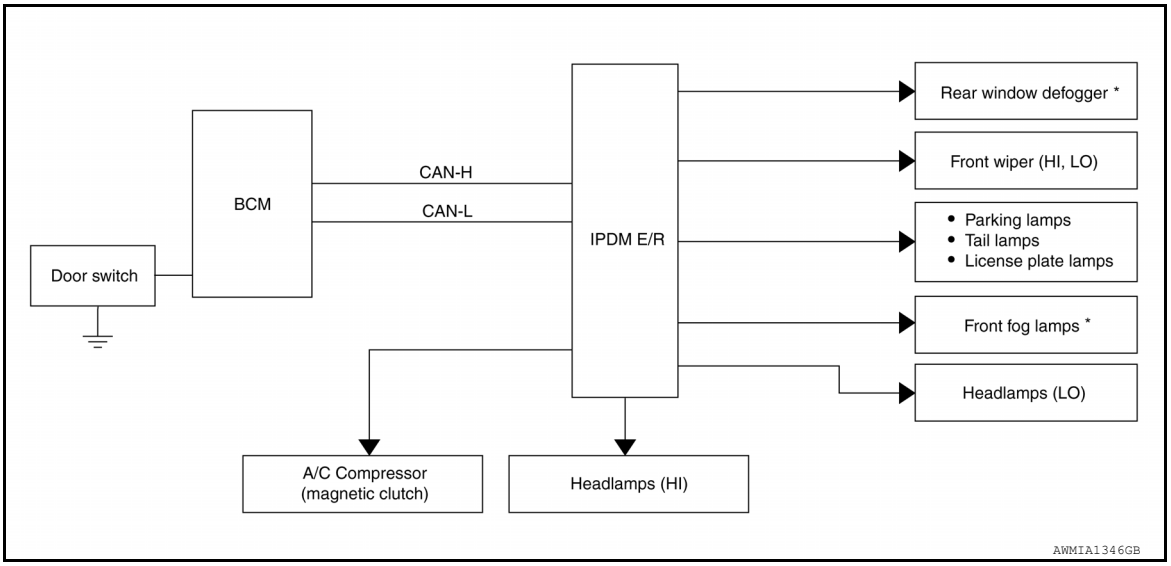
- **If auto active test mode cannot be actuated, check door switch system. Refer to DLK-98, "Component Function Check".**
- **Do not start the engine.**

Inspection in Auto Active Test Mode

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

| Operation sequence | Inspection Location | Operation |
|---|---|---|
| 1 | Rear window defogger | 10 seconds |
| 2 | Front wipers | HI for 5 seconds → LO for 5 seconds |
| 3 | Front fog lamps (if equipped), tail, license and parking lamps and daytime running lamps (if equipped) | 10 seconds |
| 4 | Headlamps | LO for 10 seconds → HI on-off for 5 seconds |
| 5 | A/C compressor (magnetic clutch) | ON ⇔ OFF 5 times |

Concept of auto active test




*: If equipped

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

Diagnosis chart in auto active test mode

| Symptom | Inspection contents | | Possible cause |
|---|---|---|---|
| Rear window defogger does not operate | Perform auto active test. Does the rear window defogger (if equipped) operate? | YES | BCM signal input circuit |
| | | NO | CAN communication signal between BCM and IPDM E/R |
| Any of the following components do not operate:<br>• Front wipers (HI, LO)<br>• Front fog lamps (if equipped)<br>• Tail lamps<br>• License plate lamps<br>• Parking lamps<br>• Daytime running lamps (if equipped)<br>• Headlamps (HI, LO) | Perform auto active test. Does the applicable system operate? | YES | BCM signal input system |
| | | NO | • Lamp or front wiper motor malfunction<br>• Lamp or front wiper motor ground circuit<br>• Harness or connector between IPDM E/R and applicable system<br>• IPDM E/R (integrated relay malfunction) |
| A/C compressor does not operate | Perform auto active test. Does the A/C compressor operate? | YES | • BCM signal input circuit<br>• CAN communication signal between BCM and ECM<br>• CAN communication signal between ECM and IPDM E/R |
| | | NO | • Magnetic clutch malfunction<br>• Harness or connector between IPDM E/R and magnetic clutch<br>• IPDM E/R (integrated relay malfunction) |

## CONSULT Function (IPDM E/R)

INFOID:0000000014666289

### APPLICATION ITEM

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

| Direct Diagnostic Mode | Description |
|---|---|
| Self Diagnostic Result | The IPDM E/R self diagnostic results are displayed. |
| Data Monitor | The IPDM E/R input/output data is displayed in real time. |
| Active Test | The IPDM E/R activates outputs to test components. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

## SELF DIAGNOSTIC RESULT

Refer to PCS-23, "DTC Index".

## DATA MONITOR

| Monitor Item [Unit] | Main Signals | Description |
|---|---|---|
| AC COMP REQ [On/Off] | × | Indicates A/C compressor request signal received from ECM on CAN communication line |
| TAIL&CLR REQ [On/Off] | × | Indicates position light request signal received from BCM on CAN communication line |
| HL LO REQ [On/Off] | × | Indicates low beam request signal received from BCM on CAN communication line |
| HL HI REQ [On/Off] | × | Indicates high beam request signal received from BCM on CAN communication line |
| FR FOG REQ [On/Off] | × | Indicates front fog light request signal received from BCM on CAN communication line |
| FR WIP REQ [Stop/1LOW/Low/Hi] | × | Indicates front wiper request signal received from BCM on CAN communication line |
| WIP AUTO STOP [STOP P/ACT P] | × | Indicates condition of front wiper auto stop signal |
| WIP PROT [Off/BLOCK] | × | Indicates condition of front wiper fail-safe operation |
| IGN RLY1 -REQ [On/Off] | | Indicates ignition switch ON signal received from BCM on CAN communication line. |
| IGN RLY [On/Off] | × | Indicates condition of ignition relay |
| PUSH SW [On/Off] | | Indicates condition of push-button ignition switch. |
| INTER/NP SW [On/Off] | | Indicates condition of AT shift position. |
| ST RLY CONT [On/Off] | | Indicates starter relay status signal received from BCM on CAN communication line. |
| IHBT RLY -REQ [On/Off] | | Indicates starter control relay signal received from BCM on CAN communication line. |
| ST/INHI RLY [Off/ ST /INHI] | | Indicates condition of starter relay and starter control relay. |
| DETENT SW [On/Off] | | Indicates condition of AT shift selector (park position switch). |
| DTRL REQ [Off] | | Indicates daytime light request signal received from BCM on CAN communication line |
| HOOD SW [On/Off] | | Indicates condition of hood switch. |
| THFT HRN REQ [On/Off] | | Indicates theft warning horn request signal received from BCM on CAN communication line |
| HORN CHIRP [On/Off] | | Indicates horn reminder signal received from BCM on CAN communication line |
| HOOD SW 2 [On/Off] | | Indicates condition of hood switch 2. |

## ACTIVE TEST

| Test item | Description |
|---|---|
| REAR DEFOGGER | This test is able to check rear defogger operation [On/Off]. |
| FRONT WIPER | This test is able to check wiper motor operation [Hi/Lo/Off]. |

| Test item | Description |
|---|---|
| EXTERNAL LAMPS | This test is able to check external lamp operation [Fog/Hi/Lo/TAIL/Off]. |
| HORN | This test is able to check horn operation [On]. |

# ECU DIAGNOSIS INFORMATION

## BCM, IPDM E/R

### List of ECU Reference

INFOID:0000000014388728

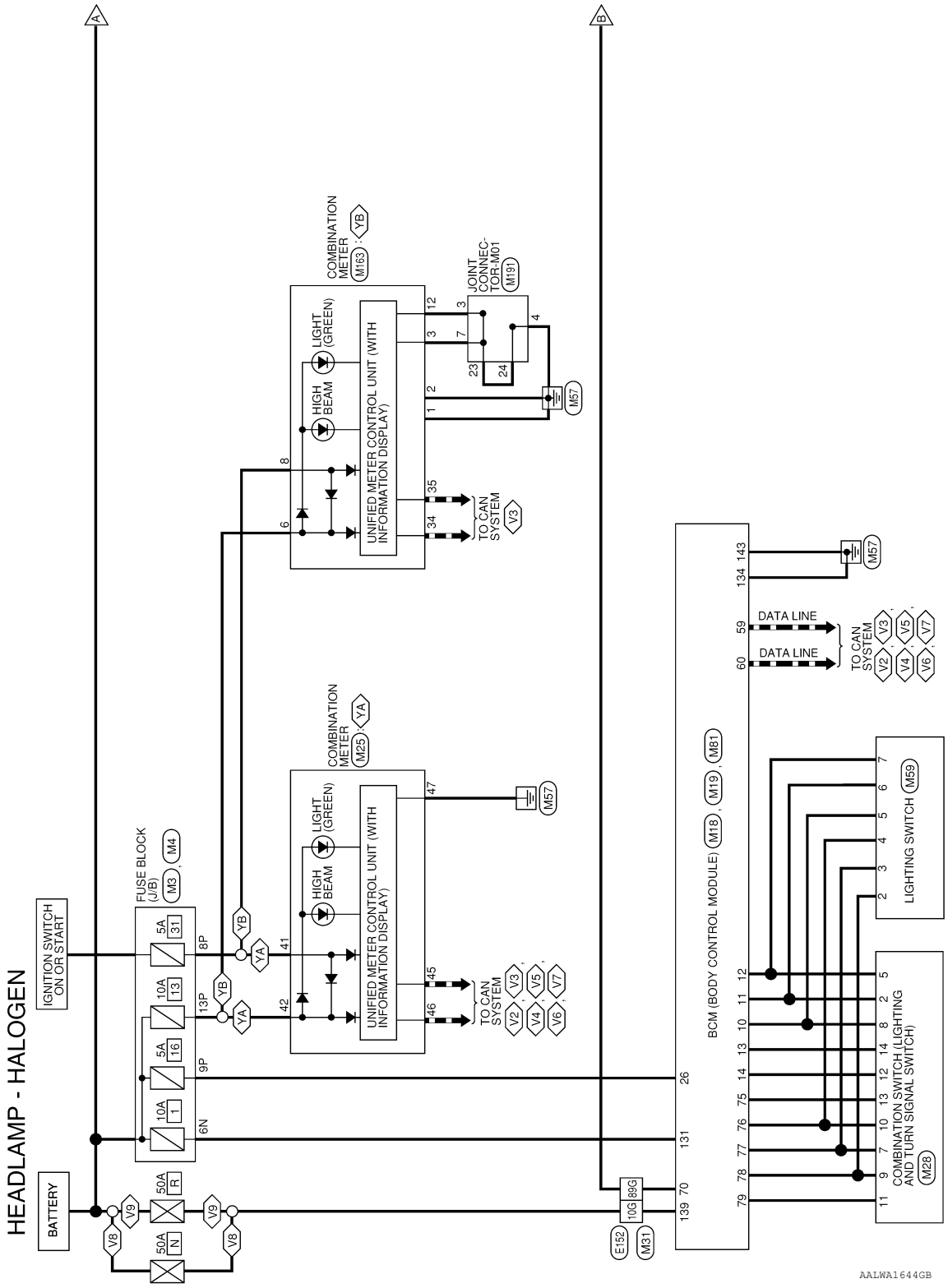
| ECU | Reference |
|---|---|
| BCM | BCS-32, "Reference Value" |
| | BCS-51, "Fail Safe" |
| | BCS-51, "DTC Inspection Priority Chart" |
| | BCS-52, "DTC Index" |
| IPDM E/R | PCS-14, "Reference Value" |
| | PCS-22, "Fail Safe" |
| | PCS-23, "DTC Index" |

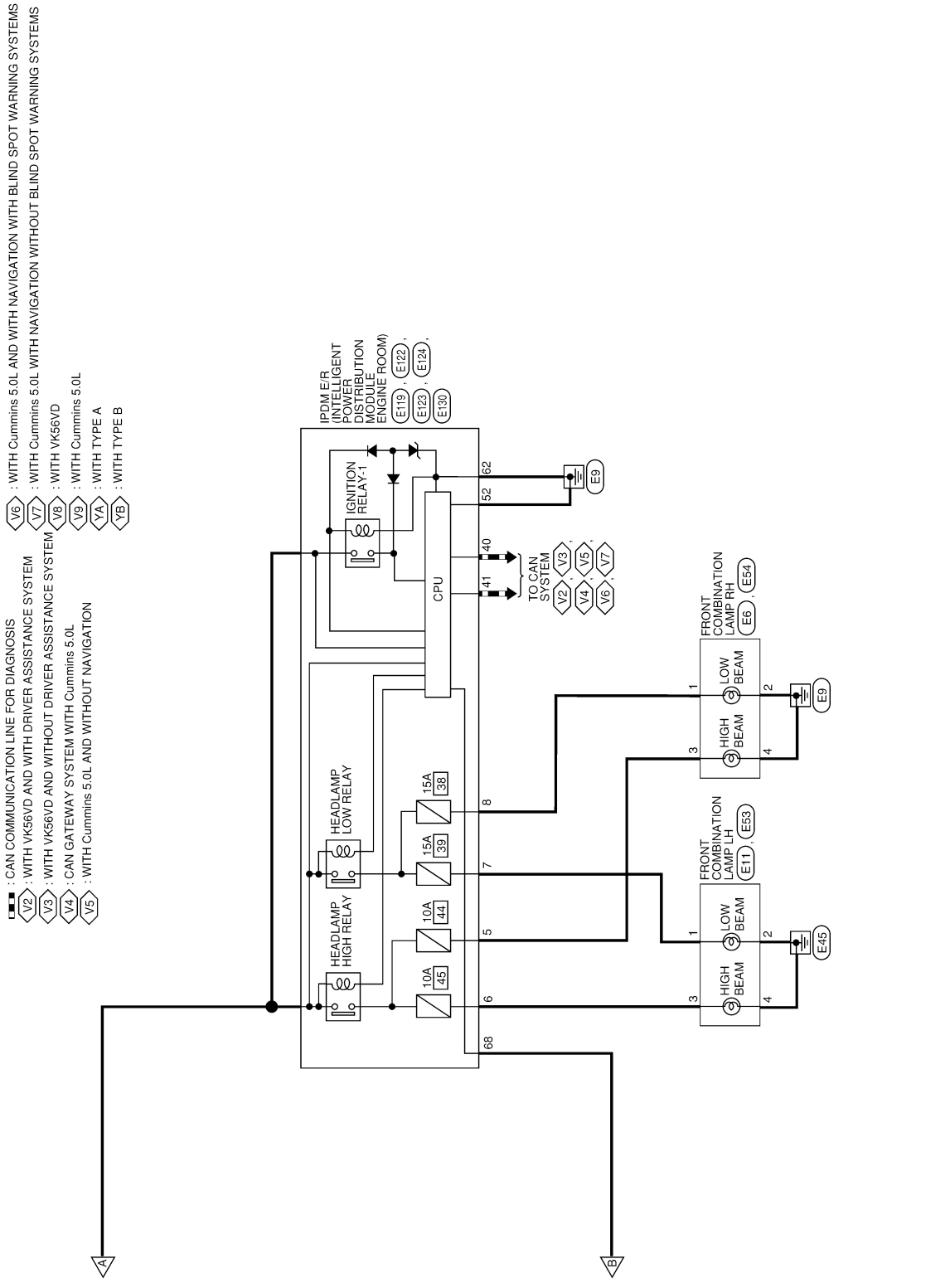
# WIRING DIAGRAM

## HEADLAMP

### Wiring Diagram

INFOID:0000000014388729




: CAN COMMUNICATION LINE FOR DIAGNOSIS
V2 : WITH VK56VD AND WITH DRIVER ASSISTANCE SYSTEM
V3 : WITH VK56VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
V4 : CAN GATEWAY SYSTEM WITH Cummins 5.0L
V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
YA : WITH TYPE A
YB : WITH TYPE B
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E119, E122, E123, E124, E130
IGNITION RELAY-1
CPU
62
52
40
41
68
E9
TO CAN SYSTEM
V3, V5, V7, V2, V4, V6
HEADLAMP LOW RELAY
HEADLAMP HIGH RELAY
15A 38
15A 39
10A 44
10A 45
8
7
5
6
FRONT COMBINATION LAMP RH
E6, E54
LOW BEAM
HIGH BEAM
FRONT COMBINATION LAMP LH
E11, E53
E45
A
B
AALWA1659GB

HEADLAMP CONNECTORS - HALOGEN

| Connector No. | E6 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | NU02FB |
| Connector Color | BLACK |

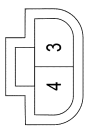
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | L/W | HIGH BEAM |
| 4 | B | GND |

| Connector No. | E11 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | NU02FB |
| Connector Color | BLACK |

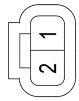
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | G | HIGH BEAM |
| 4 | B | GND |

| Connector No. | E53 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

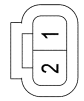
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | LOW BEAM |
| 2 | B | GND |

| Connector No. | E54 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/Y | LOW BEAM |
| 2 | B | GND |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

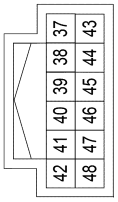
H.S.

| 51 | | 50 | 49 |
|---|---|---|---|
| 56 | 55 | 54 | 53 | 52 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | – | – |
| 52 | B | S-GND |
| 53 | – | – |
| 54 | – | – |
| 55 | – | – |
| 56 | – | – |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

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# HEADLAMP CONNECTORS - HALOGEN

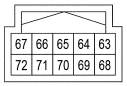
| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | – | – |
| 60 | – | – |
| 61 | – | – |
| 62 | B | P GND |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

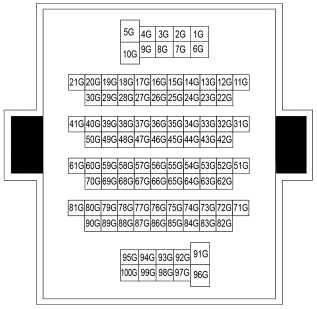
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

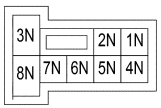
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

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HEADLAMP CONNECTORS - HALOGEN

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |

| 7 | – | – |
|---|---|---|
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| 43 | – | – |
|---|---|---|
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

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HEADLAMP CONNECTORS - HALOGEN

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

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HEADLAMP CONNECTORS - HALOGEN

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | – | – |
| 5 | – | – |
| 6 | R | BAT |
| 7 | V | SECURITY |
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | GR | ILL CONT OUT |

| Connector No. | M191 |
|---|---|
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.

| 4 | 3 | 2 | 1 |
|---|---|---|---|
| 8 | 7 | 6 | 5 |
| 12 | 11 | 10 | 9 |
| 16 | 15 | 14 | 13 |
| 20 | 19 | 18 | 17 |
| 24 | 23 | 22 | 21 |

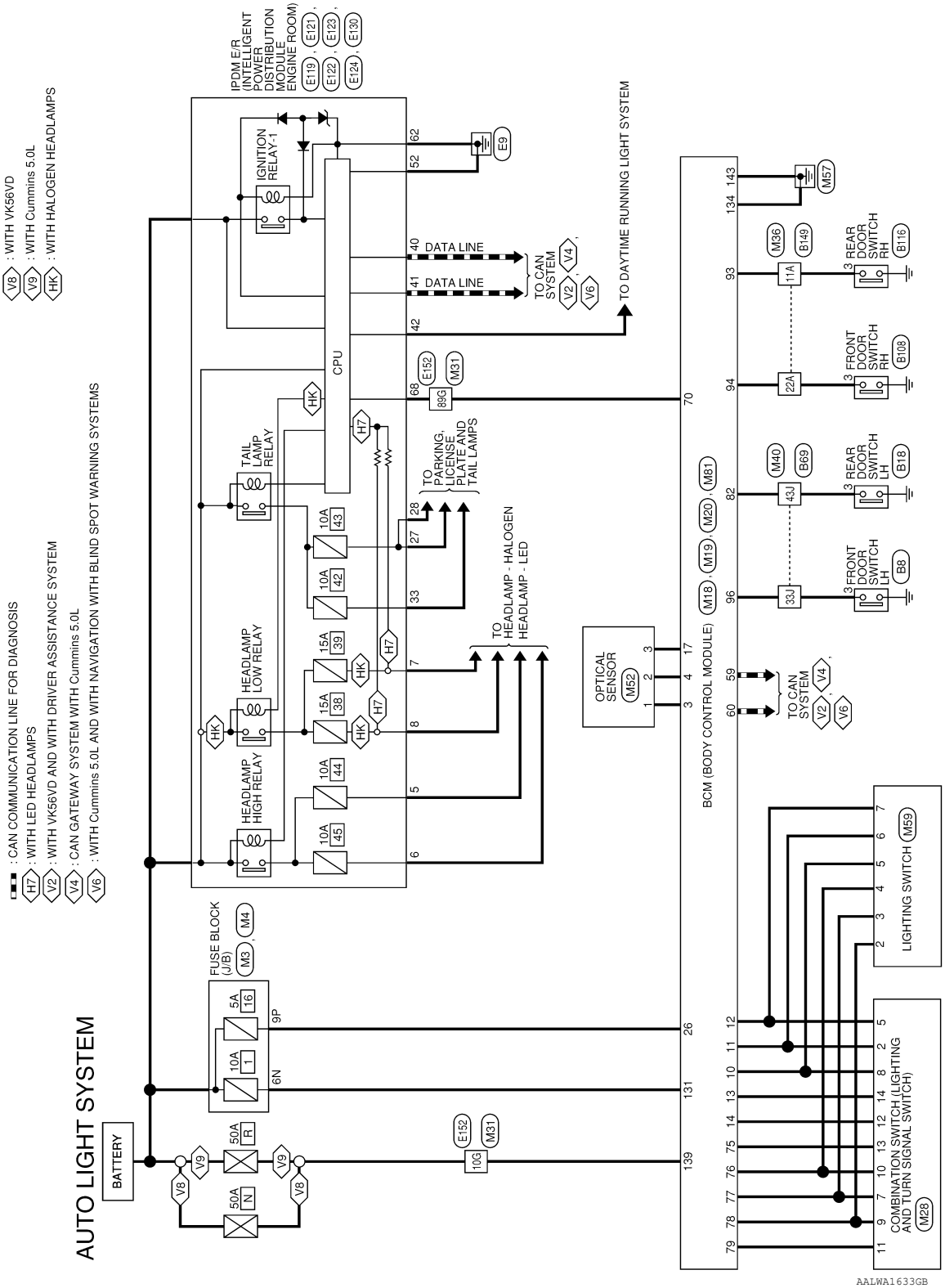
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

AALIA5649GB

# AUTO LIGHT SYSTEM

## Wiring Diagram

INFOID:0000000014388730



AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | B8 |
|---|---|
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | L | DR DOOR SW |
| 4 | – | – |

| Connector No. | B18 |
|---|---|
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | SB | RL DOOR SW |
| 4 | – | – |

| Connector No. | B69 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1J | P | TO MAIN HARNESS |
| 2J | R/Y | TO MAIN HARNESS |
| 3J | L | TO MAIN HARNESS |
| 4J | L/B | TO MAIN HARNESS |
| 5J | G/W | TO MAIN HARNESS |
| 6J | LG/Y | TO MAIN HARNESS |
| 7J | BR/LG | TO MAIN HARNESS |
| 8J | SB/BR | TO MAIN HARNESS |
| 9J | BR | TO MAIN HARNESS |
| 10J | BR | TO MAIN HARNESS |
| 11J | O/B | TO MAIN HARNESS |
| 12J | L | TO MAIN HARNESS |
| 13J | SB/O | TO MAIN HARNESS |
| 14J | Y | TO MAIN HARNESS |
| 15J | – | TO MAIN HARNESS |
| 16J | R | TO MAIN HARNESS |
| 17J | G | TO MAIN HARNESS |
| 18J | SB | TO MAIN HARNESS |
| 19J | O | TO MAIN HARNESS |
| 20J | O/B | TO MAIN HARNESS |
| 21J | Y/R | TO MAIN HARNESS |
| 22J | P | TO MAIN HARNESS |
| 23J | W | TO MAIN HARNESS |
| 24J | W/R | TO MAIN HARNESS |
| 25J | V | TO MAIN HARNESS |
| 26J | L | TO MAIN HARNESS |
| 27J | R | TO MAIN HARNESS |
| 28J | L | TO MAIN HARNESS |
| 29J | G/O | TO MAIN HARNESS |
| 30J | SB | TO MAIN HARNESS |
| 31J | LG | TO MAIN HARNESS |
| 32J | R | TO MAIN HARNESS |
| 33J | L | TO MAIN HARNESS |
| 34J | Y | TO MAIN HARNESS |
| 35J | P | TO MAIN HARNESS |
| 36J | G/R | TO MAIN HARNESS |
| 37J | LG/B | TO MAIN HARNESS |
| 38J | SB | TO MAIN HARNESS |
| 39J | Y/L | TO MAIN HARNESS |
| 40J | BR | TO MAIN HARNESS |
| 41J | L | TO MAIN HARNESS |
| 42J | L | TO MAIN HARNESS |
| 43J | SB | TO MAIN HARNESS |
| 44J | BR | TO MAIN HARNESS |
| 45J | BG | TO MAIN HARNESS |
| 46J | P/Y | TO MAIN HARNESS |
| 47J | Y/GR | TO MAIN HARNESS |
| 48J | V | TO MAIN HARNESS |
| 49J | BR/Y | TO MAIN HARNESS |
| 50J | G/W | TO MAIN HARNESS |
| 51J | – | TO MAIN HARNESS |
| 52J | SHIELD | TO MAIN HARNESS |
| 53J | R | TO MAIN HARNESS |
| 54J | L | TO MAIN HARNESS |
| 55J | R | TO MAIN HARNESS |
| 56J | W | TO MAIN HARNESS |
| 57J | L/G | TO MAIN HARNESS |
| 58J | O | TO MAIN HARNESS |
| 59J | – | TO MAIN HARNESS |
| 60J | SHIELD | TO MAIN HARNESS |
| 61J | G | TO MAIN HARNESS |
| 62J | – | TO MAIN HARNESS |
| 63J | R/W | TO MAIN HARNESS |
| 64J | L/W | TO MAIN HARNESS |
| 65J | SHIELD | TO MAIN HARNESS |
| 66J | B | TO MAIN HARNESS |
| 67J | SHIELD | TO MAIN HARNESS |
| 68J | O/L | TO MAIN HARNESS |
| 69J | SHIELD | TO MAIN HARNESS |
| 70J | BR | TO MAIN HARNESS |
| 71J | L/W | TO MAIN HARNESS |
| 72J | – | TO MAIN HARNESS |
| 73J | – | TO MAIN HARNESS |
| 74J | SHIELD | TO MAIN HARNESS |
| 75J | LG/B | TO MAIN HARNESS |
| 76J | R | TO MAIN HARNESS |
| 77J | SHIELD | TO MAIN HARNESS |
| 78J | GR/B | TO MAIN HARNESS |
| 79J | B | TO MAIN HARNESS |
| 80J | W | TO MAIN HARNESS |
| 81J | SHIELD | TO MAIN HARNESS |
| 82J | L/R | TO MAIN HARNESS |
| 83J | – | TO MAIN HARNESS |
| 84J | – | TO MAIN HARNESS |
| 85J | Y/B | TO MAIN HARNESS |
| 86J | G | TO MAIN HARNESS |
| 87J | B/R | TO MAIN HARNESS |
| 88J | SHIELD | TO MAIN HARNESS |
| 89J | GR/R | TO MAIN HARNESS |
| 90J | L | TO MAIN HARNESS |
| 91J | L/B | TO MAIN HARNESS |
| 92J | SB | TO MAIN HARNESS |
| 93J | B | TO MAIN HARNESS |
| 94J | L | TO MAIN HARNESS |
| 95J | LG | TO MAIN HARNESS |
| 96J | R | TO MAIN HARNESS |
| 97J | B/Y | TO MAIN HARNESS |
| 98J | L/B | TO MAIN HARNESS |
| 99J | W/L | TO MAIN HARNESS |
| 100J | SB | TO MAIN HARNESS |

| Connector No. | B108 |
|---|---|
| Connector Name | FRONT DOOR SWITCH RH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | LG/R | AS DOOR SW |
| 4 | – | – |

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AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | B116 |
|---|---|
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | LG | RR DOOR SW |
| 4 | – | – |

| Connector No. | B149 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MDGY-CS16-TM4 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1A | SB/G | TO MAIN HARNESS -(WITHOUT CLIMATE CONTROLLED SEATS) |
| 1A | SB | TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS) |
| 2A | L | TO MAIN HARNESS |
| 3A | V | TO MAIN HARNESS |
| 4A | SB/R | TO MAIN HARNESS |
| 5A | – | TO MAIN HARNESS |

| 6A | LG/Y | TO MAIN HARNESS -(WITHOUT CLIMATE CONTROLLED SEATS) |
|---|---|---|
| 6A | LG | TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS) |
| 7A | W | TO MAIN HARNESS |
| 8A | B | TO MAIN HARNESS |
| 9A | L/B | TO MAIN HARNESS |
| 10A | W | TO MAIN HARNESS |
| 11A | LG | TO MAIN HARNESS |
| 12A | BR/O | TO MAIN HARNESS |
| 13A | Y/W | TO MAIN HARNESS |
| 14A | R/G | TO MAIN HARNESS |
| 15A | Y/L | TO MAIN HARNESS |
| 16A | O/L | TO MAIN HARNESS |
| 17A | L | TO MAIN HARNESS |
| 18A | Y | TO MAIN HARNESS |
| 19A | LG | TO MAIN HARNESS |
| 20A | R | TO MAIN HARNESS |
| 21A | BG | TO MAIN HARNESS |
| 22A | LG/R | TO MAIN HARNESS |
| 23A | Y/LG | TO MAIN HARNESS |
| 24A | BR/Y | TO MAIN HARNESS |
| 25A | – | TO MAIN HARNESS |
| 26A | GR | TO MAIN HARNESS |
| 27A | LG | TO MAIN HARNESS |
| 28A | LG/B | TO MAIN HARNESS |
| 29A | – | TO MAIN HARNESS |
| 30A | BR | TO MAIN HARNESS |
| 31A | W/R | TO MAIN HARNESS |
| 32A | G/R | TO MAIN HARNESS |
| 33A | – | TO MAIN HARNESS |
| 34A | SHIELD | TO MAIN HARNESS |
| 35A | P | TO MAIN HARNESS |
| 36A | B | TO MAIN HARNESS |
| 37A | – | TO MAIN HARNESS |
| 38A | R/B | TO MAIN HARNESS |
| 39A | G/O | TO MAIN HARNESS |
| 40A | V | TO MAIN HARNESS |
| 41A | SHIELD | TO MAIN HARNESS |
| 42A | SHIELD | TO MAIN HARNESS |
| 43A | R | TO MAIN HARNESS |
| 44A | G | TO MAIN HARNESS |
| 45A | – | TO MAIN HARNESS |
| 46A | – | TO MAIN HARNESS |
| 47A | Y | TO MAIN HARNESS |
| 48A | R/W | TO MAIN HARNESS |
| 49A | R/L | TO MAIN HARNESS |
| 50A | B | TO MAIN HARNESS |
| 51A | – | TO MAIN HARNESS |
| 52A | – | TO MAIN HARNESS |
| 53A | – | TO MAIN HARNESS |
| 54A | – | TO MAIN HARNESS |
| 55A | – | TO MAIN HARNESS |
| 56A | – | TO MAIN HARNESS |

| 57A | – | TO MAIN HARNESS |
|---|---|---|
| 58A | – | TO MAIN HARNESS |
| 59A | – | TO MAIN HARNESS |
| 60A | G/W | TO MAIN HARNESS |
| 61A | – | TO MAIN HARNESS |
| 62A | – | TO MAIN HARNESS |
| 63A | – | TO MAIN HARNESS |
| 64A | – | TO MAIN HARNESS |
| 65A | – | TO MAIN HARNESS |
| 66A | – | TO MAIN HARNESS |
| 67A | – | TO MAIN HARNESS |
| 68A | – | TO MAIN HARNESS |
| 69A | Y/R | TO MAIN HARNESS |
| 70A | R/G | TO MAIN HARNESS |
| 71A | – | TO MAIN HARNESS |
| 72A | Y/B | TO MAIN HARNESS |
| 73A | G | TO MAIN HARNESS |
| 74A | B/R | TO MAIN HARNESS |
| 75A | SHIELD | TO MAIN HARNESS |
| 76A | GR/R | TO MAIN HARNESS |
| 77A | L | TO MAIN HARNESS |
| 78A | SHIELD | TO MAIN HARNESS |
| 79A | Y | TO MAIN HARNESS |
| 80A | L | TO MAIN HARNESS |
| 81A | R | TO MAIN HARNESS |
| 82A | SHIELD | TO MAIN HARNESS |
| 83A | LG/B | TO MAIN HARNESS |
| 84A | R | TO MAIN HARNESS |
| 85A | SHIELD | TO MAIN HARNESS |
| 86A | GR/B | TO MAIN HARNESS |
| 87A | B | TO MAIN HARNESS |
| 88A | W | TO MAIN HARNESS |
| 89A | SHIELD | TO MAIN HARNESS |
| 90A | G | TO MAIN HARNESS |
| 91A | W/L | TO MAIN HARNESS |
| 92A | BR | TO MAIN HARNESS |
| 93A | L/Y | TO MAIN HARNESS |
| 94A | R/L | TO MAIN HARNESS |
| 95A | BR | TO MAIN HARNESS |
| 96A | R | TO MAIN HARNESS |
| 97A | LG | TO MAIN HARNESS |
| 98A | B/V | TO MAIN HARNESS |
| 99A | O/L | TO MAIN HARNESS |
| 100A | BR/W | TO MAIN HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L RH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L LH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

AALIA5617GB

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | E121 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS12FBR-CS |
| Connector Color | BROWN |

H.S.

| 29 | 28 | | 27 | 26 | 25 |
|---|---|---|---|---|---|
| 36 | 35 | 34 | 33 | 32 | 31 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 25 | BR | ECM VB - (WITH CUMMINS 5.0L) |
| 25 | W | ECM VB - (WITH VK56VD) |
| 26 | V | O2 SENS - (WITH VK56VD) |
| 27 | R/L | PARKING RH |
| 28 | R/L | TAIL 1 |
| 29 | Y | FR WIPER HI |
| 30 | – | – |
| 31 | L | ECM RLY CONT |
| 32 | L | ECM BAT - (WITH VK56VD) |
| 33 | R/L | PARKING LH |
| 34 | R/W | TAIL 2 |
| 35 | BR | FR WIPER LO |
| 36 | – | – |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

| 42 | 41 | 40 | 39 | 38 | 37 |
|---|---|---|---|---|---|
| 48 | 47 | 46 | 45 | 44 | 43 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.

| 51 | | 50 | 49 |
|---|---|---|---|
| 56 | 55 | 54 | 53 | 52 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | – | – |
| 52 | B | S-GND |
| 53 | – | – |
| 54 | – | – |
| 55 | – | – |
| 56 | – | – |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| 59 | 58 | 57 |
|---|---|---|
| 62 | 61 | 60 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | – | – |
| 60 | – | – |
| 61 | – | – |
| 62 | B | P GND |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

| 67 | 66 | 65 | 64 | 63 |
|---|---|---|---|---|
| 72 | 71 | 70 | 69 | 68 |

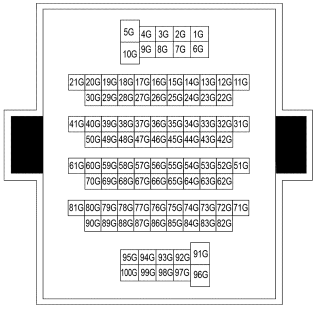
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

AALIA5618GB

# AUTO LIGHT SYSTEM CONNECTORS

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

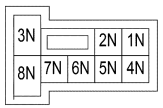
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

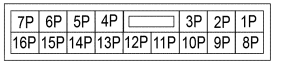
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| | |
|---|---|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

AALIA5619GB

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |

| 39 | B/R | SHIFT N/P |
|---|---|---|
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |

| 75 | L/W | COMBI SW OUT 5 |
|---|---|---|
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M20 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FGY-NH |
| Connector Color | GRAY |

H.S.

| 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 81 | – | – |
| 82 | W | RL DOOR SW |
| 83 | – | – |
| 84 | – | – |
| 85 | – | – |
| 86 | G/B | TRAILER FLASHER RL |
| 87 | Y/B | TRAILER FLASHER RR |
| 88 | – | – |
| 89 | – | – |
| 90 | – | – |
| 91 | – | – |
| 92 | O | RR FLASHER |
| 93 | R | RR DOOR SW |
| 94 | G | AS DOOR SW |
| 95 | – | – |
| 96 | BG | DR DOOR SW |
| 97 | P/L | CARGO LAMP SW |
| 98 | – | – |
| 99 | – | – |
| 100 | – | – |
| 101 | – | – |
| 102 | – | – |
| 103 | G/B | RL FLASHER |
| 104 | – | – |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

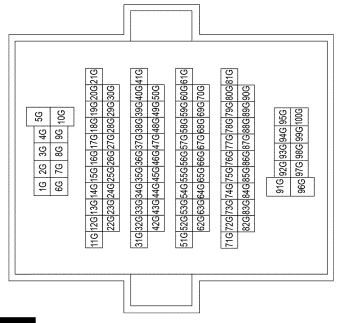
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

AALIA5620GB

AUTO LIGHT SYSTEM CONNECTORS

| | |
|---|---|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



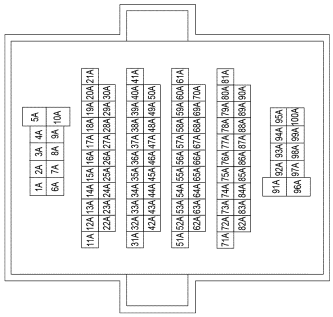

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

AALIA5621GB

AUTO LIGHT SYSTEM CONNECTORS

| | |
|---|---|
| Connector No. | M36 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FDGY-CS16-TM4 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1A | W | TO BODY NO. 2 HARNESS |
| 2A | LG | TO BODY NO. 2 HARNESS |
| 3A | V | TO BODY NO. 2 HARNESS |
| 4A | SB | TO BODY NO. 2 HARNESS |
| 5A | – | TO BODY NO. 2 HARNESS |
| 6A | BG | TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT) |
| 6A | LG | TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT) |
| 7A | W | TO BODY NO. 2 HARNESS |
| 8A | B | TO BODY NO. 2 HARNESS |
| 9A | L/B | TO BODY NO. 2 HARNESS |
| 10A | W | TO BODY NO. 2 HARNESS |
| 11A | R | TO BODY NO. 2 HARNESS |
| 12A | BR | TO BODY NO. 2 HARNESS |
| 13A | G | TO BODY NO. 2 HARNESS |
| 14A | R/G | TO BODY NO. 2 HARNESS |
| 15A | O | TO BODY NO. 2 HARNESS |
| 16A | O/L | TO BODY NO. 2 HARNESS |
| 17A | L | TO BODY NO. 2 HARNESS |
| 18A | Y | TO BODY NO. 2 HARNESS |
| 19A | B/W | TO BODY NO. 2 HARNESS |
| 20A | R | TO BODY NO. 2 HARNESS |
| 21A | BG | TO BODY NO. 2 HARNESS |
| 22A | G | TO BODY NO. 2 HARNESS |
| 23A | Y | TO BODY NO. 2 HARNESS |
| 24A | L | TO BODY NO. 2 HARNESS |
| 25A | – | TO BODY NO. 2 HARNESS |
| 26A | GR | TO BODY NO. 2 HARNESS |
| 27A | LG | TO BODY NO. 2 HARNESS |
| 28A | LG | TO BODY NO. 2 HARNESS |
| 29A | GR | TO BODY NO. 2 HARNESS |
| 30A | BR | TO BODY NO. 2 HARNESS |
| 31A | W/R | TO BODY NO. 2 HARNESS |
| 32A | G/R | TO BODY NO. 2 HARNESS |
| 33A | – | TO BODY NO. 2 HARNESS |
| 34A | SHIELD | TO BODY NO. 2 HARNESS |
| 35A | P | TO BODY NO. 2 HARNESS |
| 36A | B | TO BODY NO. 2 HARNESS |
| 37A | – | TO BODY NO. 2 HARNESS |
| 38A | R/B | TO BODY NO. 2 HARNESS |
| 39A | G/O | TO BODY NO. 2 HARNESS |
| 40A | V | TO BODY NO. 2 HARNESS |
| 41A | SHIELD | TO BODY NO. 2 HARNESS |
| 42A | SHIELD | TO BODY NO. 2 HARNESS |
| 43A | R | TO BODY NO. 2 HARNESS |
| 44A | G | TO BODY NO. 2 HARNESS |
| 45A | – | TO BODY NO. 2 HARNESS |
| 46A | – | TO BODY NO. 2 HARNESS |
| 47A | Y | TO BODY NO. 2 HARNESS |
| 48A | R/W | TO BODY NO. 2 HARNESS |
| 49A | R/L | TO BODY NO. 2 HARNESS |
| 50A | B | TO BODY NO. 2 HARNESS |
| 51A | – | TO BODY NO. 2 HARNESS |
| 52A | – | TO BODY NO. 2 HARNESS |
| 53A | – | TO BODY NO. 2 HARNESS |
| 54A | – | TO BODY NO. 2 HARNESS |
| 55A | – | TO BODY NO. 2 HARNESS |
| 56A | – | TO BODY NO. 2 HARNESS |
| 57A | – | TO BODY NO. 2 HARNESS |
| 58A | – | TO BODY NO. 2 HARNESS |
| 59A | – | TO BODY NO. 2 HARNESS |
| 60A | G/W | TO BODY NO. 2 HARNESS |
| 61A | – | TO BODY NO. 2 HARNESS |
| 62A | – | TO BODY NO. 2 HARNESS |
| 63A | – | TO BODY NO. 2 HARNESS |
| 64A | – | TO BODY NO. 2 HARNESS |
| 65A | – | TO BODY NO. 2 HARNESS |
| 66A | – | TO BODY NO. 2 HARNESS |
| 67A | – | TO BODY NO. 2 HARNESS |
| 68A | – | TO BODY NO. 2 HARNESS |
| 69A | Y/R | TO BODY NO. 2 HARNESS |
| 70A | R/G | TO BODY NO. 2 HARNESS |
| 71A | – | TO BODY NO. 2 HARNESS |
| 72A | W | TO BODY NO. 2 HARNESS |
| 73A | G | TO BODY NO. 2 HARNESS |
| 74A | W | TO BODY NO. 2 HARNESS |
| 75A | SHIELD | TO BODY NO. 2 HARNESS |
| 76A | R | TO BODY NO. 2 HARNESS |
| 77A | L | TO BODY NO. 2 HARNESS |
| 78A | SHIELD | TO BODY NO. 2 HARNESS |
| 79A | GR | TO BODY NO. 2 HARNESS |
| 80A | V | TO BODY NO. 2 HARNESS |
| 81A | R | TO BODY NO. 2 HARNESS |
| 82A | SHIELD | TO BODY NO. 2 HARNESS |
| 83A | R | TO BODY NO. 2 HARNESS |
| 84A | O | TO BODY NO. 2 HARNESS |
| 85A | SHIELD | TO BODY NO. 2 HARNESS |
| 86A | W | TO BODY NO. 2 HARNESS |
| 87A | B | TO BODY NO. 2 HARNESS |
| 88A | W | TO BODY NO. 2 HARNESS |
| 89A | SHIELD | TO BODY NO. 2 HARNESS |
| 90A | G | TO BODY NO. 2 HARNESS |
| 91A | W/L | TO BODY NO. 2 HARNESS |
| 92A | BR | TO BODY NO. 2 HARNESS |
| 93A | L/Y | TO BODY NO. 2 HARNESS |
| 94A | R/L | TO BODY NO. 2 HARNESS |
| 95A | BR | TO BODY NO. 2 HARNESS |
| 96A | R | TO BODY NO. 2 HARNESS |
| 97A | LG | TO BODY NO. 2 HARNESS |
| 98A | B/V | TO BODY NO. 2 HARNESS |
| 99A | O/L | TO BODY NO. 2 HARNESS |
| 100A | BR/W | TO BODY NO. 2 HARNESS |

AALIA5622GB

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M40 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1J | G | TO BODY HARNESS |
| 2J | R/Y | TO BODY HARNESS |
| 3J | L | TO BODY HARNESS |
| 4J | L/B | TO BODY HARNESS |
| 5J | B | TO BODY HARNESS |
| 6J | BR | TO BODY HARNESS |
| 7J | BG | TO BODY HARNESS |
| 8J | SB | TO BODY HARNESS |
| 9J | BR | TO BODY HARNESS |
| 10J | R | TO BODY HARNESS |
| 11J | O/B | TO BODY HARNESS |
| 12J | L | TO BODY HARNESS |
| 13J | W | TO BODY HARNESS |
| 14J | Y | TO BODY HARNESS |
| 15J | – | TO BODY HARNESS |
| 16J | R | TO BODY HARNESS |
| 17J | G | TO BODY HARNESS |
| 18J | SB | TO BODY HARNESS |
| 19J | O | TO BODY HARNESS |
| 20J | O/B | TO BODY HARNESS |
| 21J | Y | TO BODY HARNESS |
| 22J | P | TO BODY HARNESS |
| 23J | W | TO BODY HARNESS |
| 24J | W/R | TO BODY HARNESS |
| 25J | P | TO BODY HARNESS |
| 26J | L | TO BODY HARNESS |
| 27J | R | TO BODY HARNESS |
| 28J | L | TO BODY HARNESS |
| 29J | G/O | TO BODY HARNESS |
| 30J | SB | TO BODY HARNESS |
| 31J | L/G | TO BODY HARNESS |
| 32J | R | TO BODY HARNESS |
| 33J | BG | TO BODY HARNESS |
| 34J | Y | TO BODY HARNESS |
| 35J | P | TO BODY HARNESS |
| 36J | G/R | TO BODY HARNESS |
| 37J | LG | TO BODY HARNESS |
| 38J | SB | TO BODY HARNESS |
| 39J | Y | TO BODY HARNESS |
| 40J | SB | TO BODY HARNESS |
| 41J | L | TO BODY HARNESS |
| 42J | L | TO BODY HARNESS |
| 43J | W | TO BODY HARNESS |
| 44J | BR | TO BODY HARNESS |
| 45J | BG | TO BODY HARNESS |
| 46J | P | TO BODY HARNESS |
| 47J | O | TO BODY HARNESS |
| 48J | V | TO BODY HARNESS |
| 49J | BR | TO BODY HARNESS |
| 50J | G/W | TO BODY HARNESS |
| 51J | – | TO BODY HARNESS |
| 52J | SHIELD | TO BODY HARNESS |
| 53J | R | TO BODY HARNESS |
| 54J | L | TO BODY HARNESS |
| 55J | R | TO BODY HARNESS |
| 56J | W | TO BODY HARNESS |
| 57J | R | TO BODY HARNESS |
| 58J | B | TO BODY HARNESS |
| 59J | – | TO BODY HARNESS |
| 60J | SHIELD | TO BODY HARNESS |
| 61J | G | TO BODY HARNESS |
| 62J | – | TO BODY HARNESS |
| 63J | R/W | TO BODY HARNESS |
| 64J | L/W | TO BODY HARNESS |
| 65J | SHIELD | TO BODY HARNESS |
| 66J | B | TO BODY HARNESS |
| 67J | SHIELD | TO BODY HARNESS |
| 68J | W | TO BODY HARNESS |
| 69J | SHIELD | TO BODY HARNESS |
| 70J | B/R | TO BODY HARNESS |
| 71J | L/W | TO BODY HARNESS |
| 72J | – | TO BODY HARNESS |
| 73J | – | TO BODY HARNESS |
| 74J | SHIELD | TO BODY HARNESS |
| 75J | R | TO BODY HARNESS |
| 76J | O | TO BODY HARNESS |
| 77J | SHIELD | TO BODY HARNESS |
| 78J | W | TO BODY HARNESS |
| 79J | B | TO BODY HARNESS |
| 80J | W | TO BODY HARNESS |
| 81J | SHIELD | TO BODY HARNESS |
| 82J | L/R | TO BODY HARNESS |
| 83J | – | TO BODY HARNESS |
| 84J | – | TO BODY HARNESS |
| 85J | W | TO BODY HARNESS |
| 86J | G | TO BODY HARNESS |
| 87J | W | TO BODY HARNESS |
| 88J | SHIELD | TO BODY HARNESS |
| 89J | R | TO BODY HARNESS |
| 90J | L | TO BODY HARNESS |
| 91J | L/B | TO BODY HARNESS |
| 92J | SB | TO BODY HARNESS |
| 93J | B | TO BODY HARNESS |
| 94J | LG | TO BODY HARNESS |
| 95J | L | TO BODY HARNESS |
| 96J | G | TO BODY HARNESS |
| 97J | B/Y | TO BODY HARNESS |
| 98J | L/B | TO BODY HARNESS |
| 99J | W/L | TO BODY HARNESS |
| 100J | Y | TO BODY HARNESS |

| Connector No. | M52 |
|---|---|
| Connector Name | OPTICAL SENSOR |
| Connector Type | TK03FW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | POWER |
| 2 | W/R | SIGNAL |
| 3 | P | SIG GND |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

AALIA5623GB

AUTO LIGHT SYSTEM CONNECTORS

| | |
|---|---|
| Connector No. | M81 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

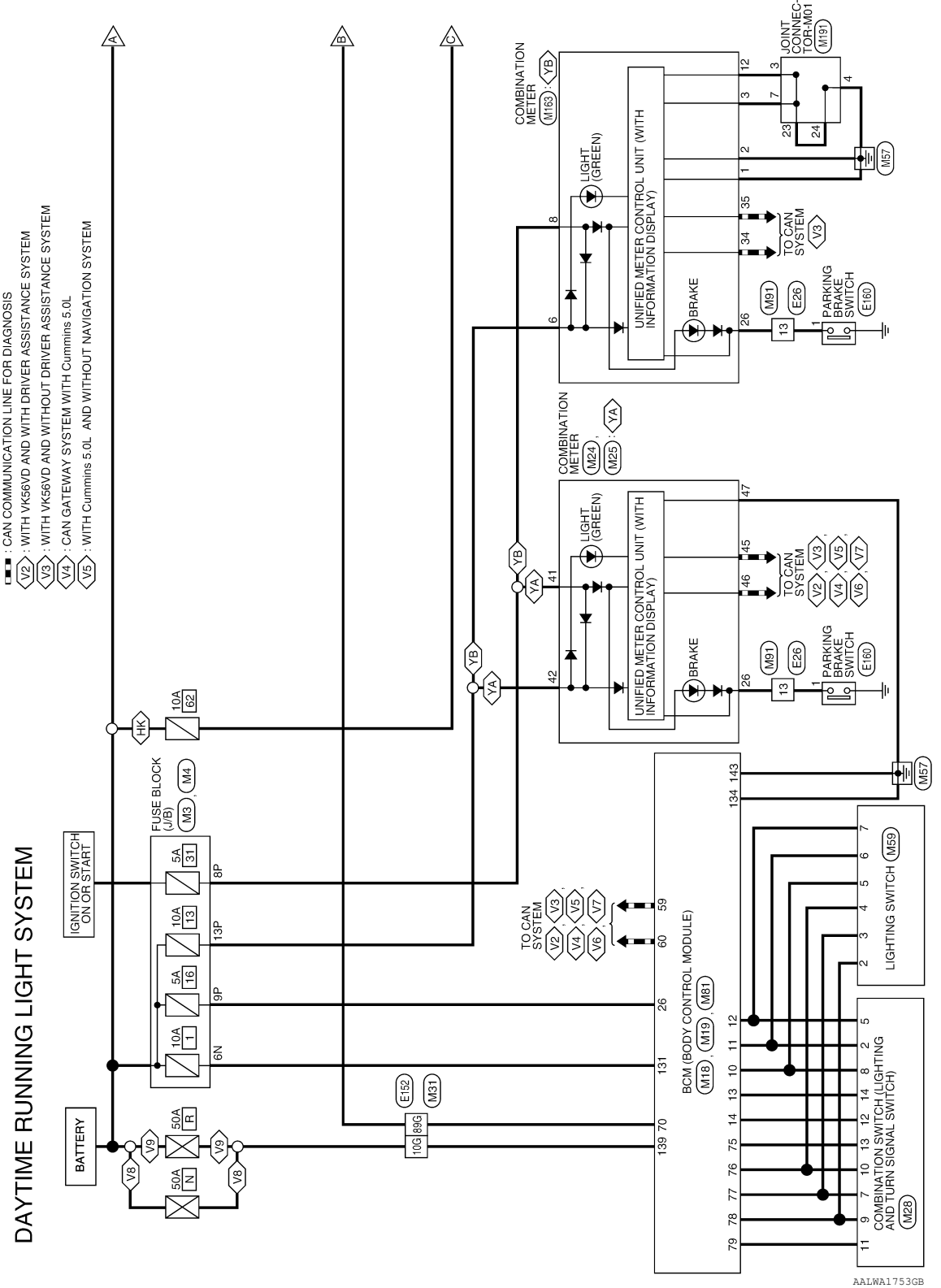
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

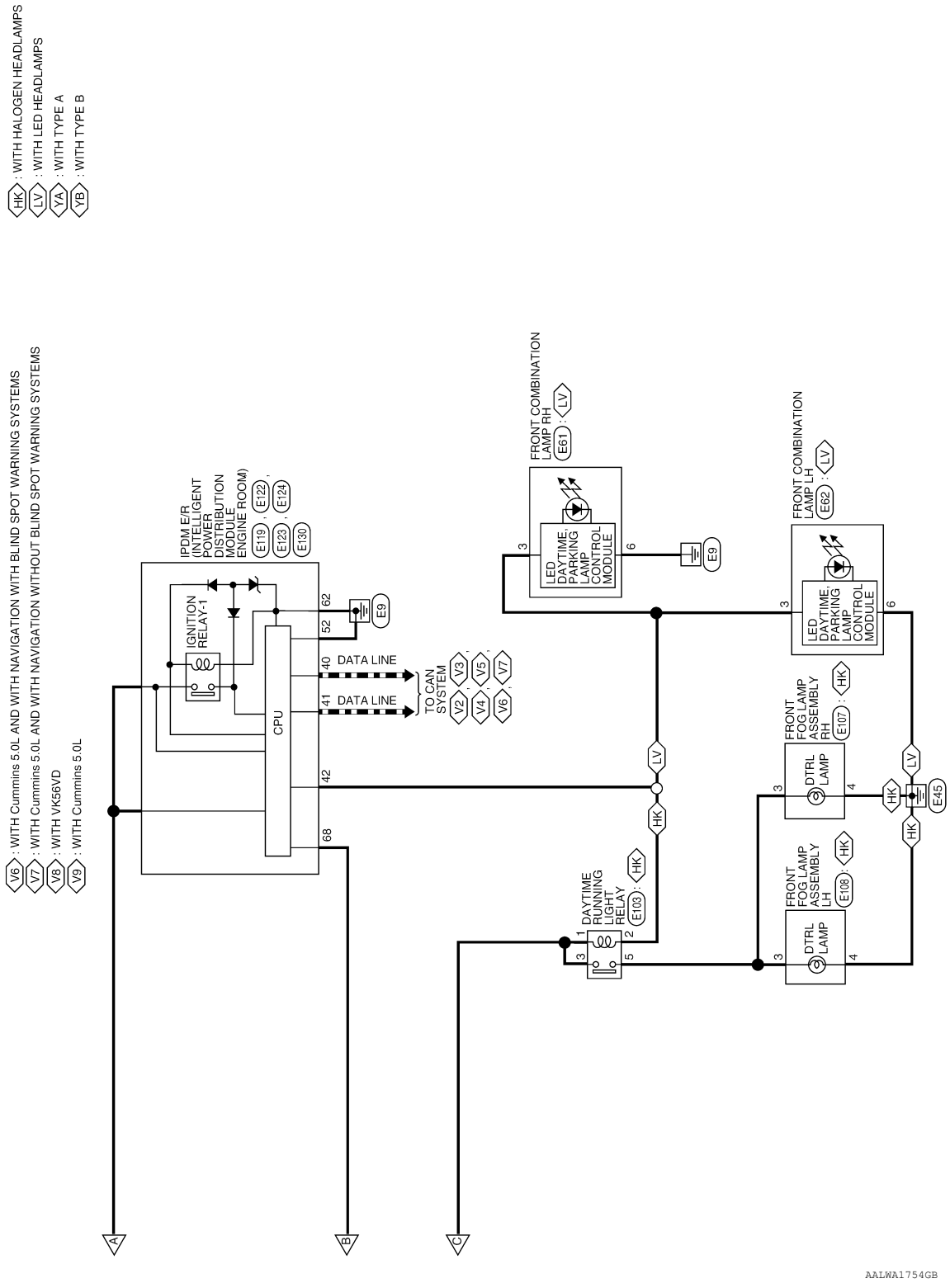
AALIA5624GB

# DAYTIME RUNNING LIGHT SYSTEM

## Wiring Diagram

INFOID:0000000014388731

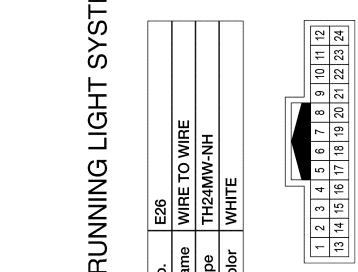



HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
YA : WITH TYPE A
YB : WITH TYPE B
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E119, E122, E123, E124, E130
IGNITION RELAY-1
CPU
62
52
40
41
42
68
DATA LINE
DATA LINE
TO CAN SYSTEM
V3, V5, V7, V2, V4, V6
E9
FRONT COMBINATION LAMP RH
E61 : LV
LED DAYTIME PARKING LAMP CONTROL MODULE
FRONT COMBINATION LAMP LH
E62 : LV
DAYTIME RUNNING LIGHT RELAY
E103 : HK
FRONT FOG LAMP ASSEMBLY RH
E107 : HK
FRONT FOG LAMP ASSEMBLY LH
E108 : HK
DTRL LAMP
E45
A
B
C
AALWA1754GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | E26 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

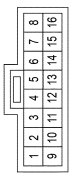
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | LG/B | TO MAIN HARNESS |
| 2 | R/W | TO MAIN HARNESS |
| 3 | Y/R | TO MAIN HARNESS |
| 4 | G/R | TO MAIN HARNESS |
| 5 | G/W | TO MAIN HARNESS |
| 6 | P | TO MAIN HARNESS |
| 7 | O | TO MAIN HARNESS |
| 8 | R | TO MAIN HARNESS |
| 9 | G | TO MAIN HARNESS |
| 10 | LG | TO MAIN HARNESS |
| 11 | BR | TO MAIN HARNESS |
| 12 | GR | TO MAIN HARNESS |
| 13 | G | TO MAIN HARNESS |
| 14 | BR | TO MAIN HARNESS |
| 15 | – | TO MAIN HARNESS |
| 16 | – | TO MAIN HARNESS |
| 17 | W | TO MAIN HARNESS |
| 18 | – | TO MAIN HARNESS |
| 19 | Y/R | TO MAIN HARNESS |
| 20 | G/W | TO MAIN HARNESS |
| 21 | – | TO MAIN HARNESS |
| 22 | – | TO MAIN HARNESS |
| 23 | – | TO MAIN HARNESS |
| 24 | O/L | TO MAIN HARNESS |

| Connector No. | E61 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | R/Y | HEADLAMP LO |
| 5 | L/W | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | BR | LED H/LAMP |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E62 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | L | HEADLAMP LO |
| 5 | G | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | W | LED H/LAMP LH |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E103 |
|---|---|
| Connector Name | DAYTIME RUNNING LIGHT RELAY |
| Connector Type | MS02FL-M2-LC |
| Connector Color | BLUE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | BATTERY |
| 2 | BR | DTRL RLY CONTROL |
| 3 | G | BATTERY |
| 5 | L | DTRL (+) |

| Connector No. | E107 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY RH |
| Connector Type | RZ02FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | L | DTRL (+) |
| 4 | B | GND |

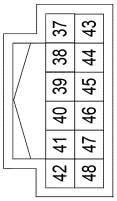
| Connector No. | E108 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY LH |
| Connector Type | RZ02FGY |
| Connector Color | GRAY |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | L | DTRL (+) |
| 4 | B | GND |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

AALIA5634GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.

| 51 | | 50 | 49 |
|---|---|---|---|
| 56 | 55 | 54 | 53 | 52 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | - | - |
| 52 | B | S-GND |
| 53 | - | - |
| 54 | - | - |
| 55 | - | - |
| 56 | - | - |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

| 67 | 66 | 65 | 64 | 63 |
|---|---|---|---|---|
| 72 | 71 | 70 | 69 | 68 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | - | - |
| 64 | R | DETENT SW |
| 65 | - | - |
| 66 | P | PUSH START SW |
| 67 | - | - |
| 68 | L | IGN SIGNAL |
| 69 | - | - |
| 70 | - | - |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| 59 | 58 | 57 |
|---|---|---|
| 62 | 61 | 60 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | B | P GND |

AALIA5635GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | E160 |
|---|---|
| Connector Name | PARKING BRAKE SWITCH |
| Connector Type | P01FB-A |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | PKB SW |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

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DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |

| 7 | – | – |
|---|---|---|
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| 43 | – | – |
|---|---|---|
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |

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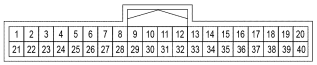
## DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M24 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

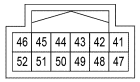
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND(STRG/SATELLITE SW GND) |
| 2 | – | – |
| 3 | – | – |
| 4 | – | – |
| 5 | – | – |
| 6 | – | – |
| 7 | V | SECURITY |
| 8 | – | – |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | BR | LED HEAD LAMP (R) |
| 13 | W | LED HEAD LAMP (L) |
| 14 | R | ACC SW |
| 15 | W | OUTSIDE TEMP SENSOR (WITH VK56VD) |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND (WITH VK56VD) |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | – | – |
| 31 | – | – |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | – | – |
| 35 | – | – |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

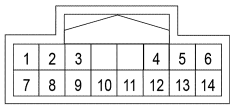
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

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DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

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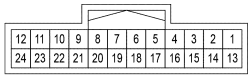
# DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M91 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |
| Connector Color | WHITE |

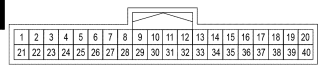
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G/W | TO ENGINE ROOM HARNESS |
| 2 | R/W | TO ENGINE ROOM HARNESS |
| 3 | Y/R | TO ENGINE ROOM HARNESS |
| 4 | G/R | TO ENGINE ROOM HARNESS |
| 5 | G | TO ENGINE ROOM HARNESS |
| 6 | P | TO ENGINE ROOM HARNESS |
| 7 | O | TO ENGINE ROOM HARNESS |
| 8 | R | TO ENGINE ROOM HARNESS |
| 9 | G | TO ENGINE ROOM HARNESS |
| 10 | LG | TO ENGINE ROOM HARNESS |
| 11 | BR | TO ENGINE ROOM HARNESS |
| 12 | GR | TO ENGINE ROOM HARNESS |
| 13 | G | TO ENGINE ROOM HARNESS |
| 14 | BR | TO ENGINE ROOM HARNESS |
| 15 | – | TO ENGINE ROOM HARNESS |
| 16 | – | TO ENGINE ROOM HARNESS |
| 17 | W | TO ENGINE ROOM HARNESS |
| 18 | – | TO ENGINE ROOM HARNESS |
| 19 | Y/R | TO ENGINE ROOM HARNESS |
| 20 | G/W | TO ENGINE ROOM HARNESS |
| 21 | – | TO ENGINE ROOM HARNESS |
| 22 | – | TO ENGINE ROOM HARNESS |
| 23 | – | TO ENGINE ROOM HARNESS |
| 24 | O/L | TO ENGINE ROOM HARNESS |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

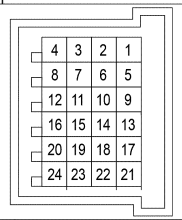
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | – | – |
| 5 | – | – |
| 6 | R | BAT |
| 7 | V | SECURITY |
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | GR | ILL CONT OUT |

| Connector No. | M191 |
|---|---|
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

AALIA5640GB

# FRONT FOG LAMP

## Wiring Diagram

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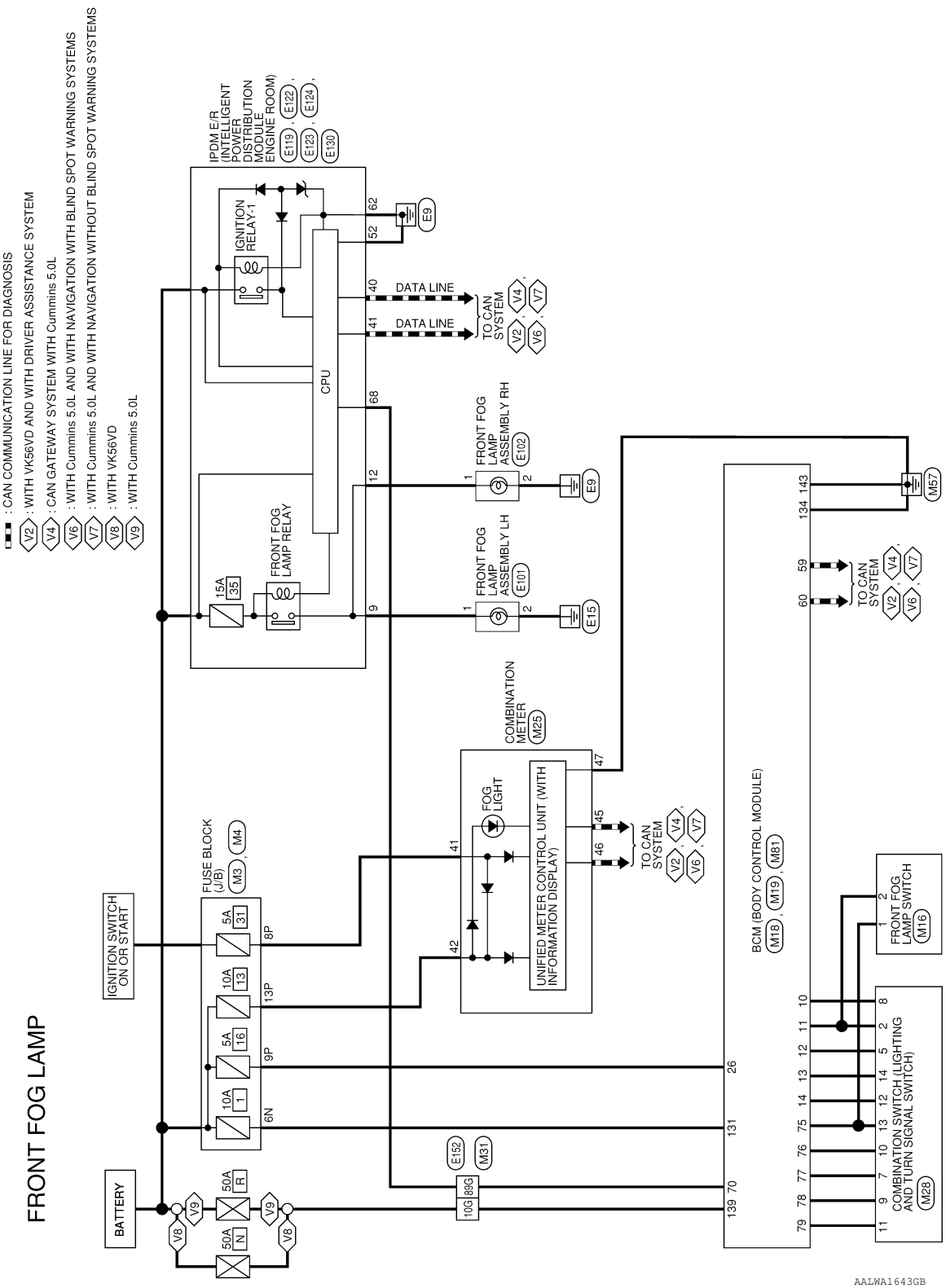
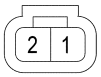


# FRONT FOG LAMP CONNECTORS

| Connector No. | E101 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY LH |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

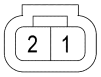
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G/W | FR FOG/L LH |
| 2 | B | GND |

| Connector No. | E102 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY RH |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

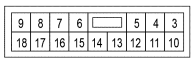
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | FR FOG/L RH |
| 2 | B | GND |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

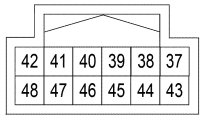
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

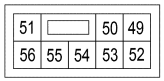
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | – | – |
| 52 | B | S-GND |
| 53 | – | – |
| 54 | – | – |
| 55 | – | – |
| 56 | – | – |

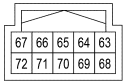
| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 59 | – | – |
| 60 | – | – |
| 61 | – | – |
| 62 | B | P GND |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

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FRONT FOG LAMP CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M16 |
|---|---|
| Connector Name | FRONT FOG LAMP SWITCH |
| Connector Type | TK08FW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/W | INPUT 5 |
| 2 | G/Y | OUTPUT 4 |
| 4 | L | ILLUMINATION + |
| 5 | GR | ILLUMINATION - |

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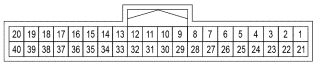
# FRONT FOG LAMP CONNECTORS

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

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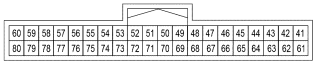
| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

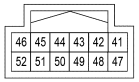
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

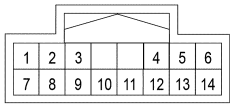
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

FRONT FOG LAMP CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.



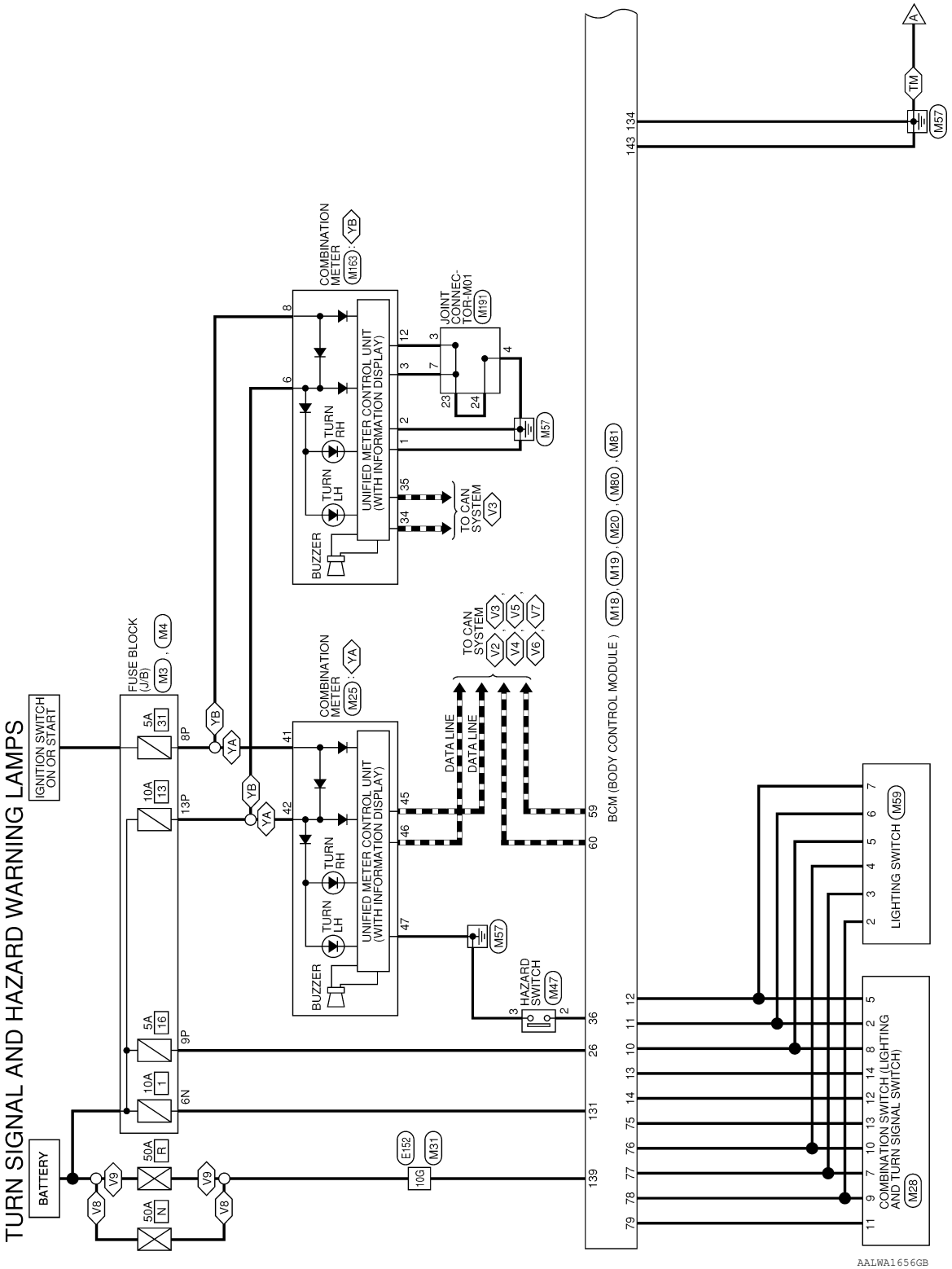
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

AALIA5644GB

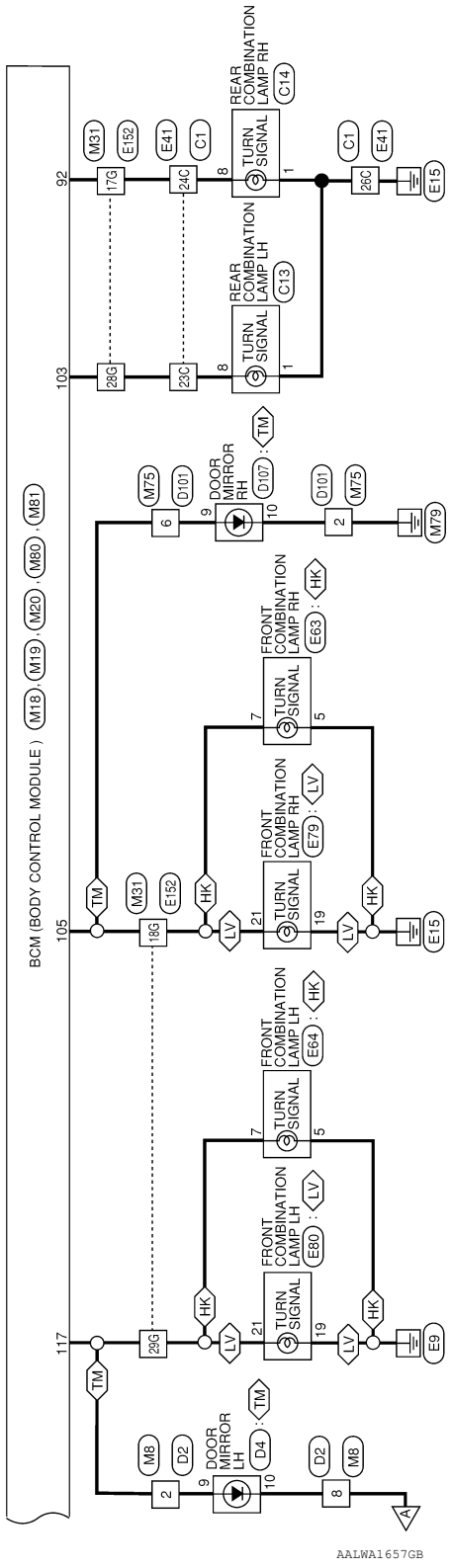
# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## Wiring Diagram

INFOID:0000000014388733



: CAN COMMUNICATION LINE FOR DIAGNOSIS
V2 : WITH VK56VD AND WITH DRIVER ASSISTANCE SYSTEM
V3 : WITH VK56VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
V4 : CAN GATEWAY SYSTEM WITH Cummins 5.0L
V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
TM : WITH TURN SIGNAL IN MIRROR
YA : WITH TYPE A
YB : WITH TYPE B



TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.

| 5C | | 4C | 3C | 2C | | 1C |
|---|---|---|---|---|---|---|
| 11C | 10C | 9C | | | 8C | 7C | 6C |
| 21C | 20C | 19C | 18C | 17C | 16C | 15C | 14C | 13C | 12C |
| 31C | 30C | 29C | 28C | 27C | 26C | 25C | 24C | 23C | 22C |
| 41C | 40C | 39C | 38C | 37C | 36C | 35C | 34C | 33C | 32C |
| 47C | 46C | 45C | | | 44C | 43C | 42C |
| 52C | | | 51C | 50C | 49C | | | 48C |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |

| 22C | SHIELD | TO ENGINE ROOM HARNESS |
|---|---|---|
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | D2 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO MAIN HARNESS |
| 2 | G/B | TO MAIN HARNESS |
| 3 | L | TO MAIN HARNESS |
| 4 | R | TO MAIN HARNESS |
| 5 | W/R | TO MAIN HARNESS |
| 6 | W/L | TO MAIN HARNESS |
| 7 | V | TO MAIN HARNESS |
| 8 | B | TO MAIN HARNESS |
| 9 | L/W | TO MAIN HARNESS |
| 10 | L/R | TO MAIN HARNESS |
| 11 | L/W | TO MAIN HARNESS |
| 12 | L | TO MAIN HARNESS |
| 13 | Y | TO MAIN HARNESS |
| 14 | SB | TO MAIN HARNESS |
| 15 | V | TO MAIN HARNESS |
| 16 | LG | TO MAIN HARNESS |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | D4 |
|---|---|
| Connector Name | DOOR MIRROR LH |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | LG | SWITCH MTR UP |
| 2 | Y | SWITCH MOTOR LT (WITHOUT MEMORY MIRRORS) |
| 2 | L | SWITCH MOTOR LT -(WITH MEMORY MIRRORS) |
| 3 | BG | MOTOR COMMON |
| 4 | G/L | POWERFOLD UNFOLD+ -(WITH MEMORY MIRRORS) |
| 5 | GR | POWERFOLD FOLD+ -(WITH MEMORY MIRRORS) |
| 6 | B/W | HEATED MIRROR + |
| 7 | W | VCC |
| 8 | R | VIDEO + |
| 9 | G/B | FRONT TURN LH |
| 10 | B | GND |
| 11 | LG/B | EC FEED |
| 12 | Y/V | EC RETURN |
| 13 | Y | MEMORY GND |
| 14 | SB | MEMORY FEED |
| 15 | V | HOR SENSOR |
| 16 | BG | VER SENSOR |
| 17 | – | – |
| 18 | B | HEATED MIRROR - |
| 19 | B | GND |
| 20 | SHIELD | VIDEO - |
| 21 | R/G | BAT SAVER OUT |
| 22 | L | ROOM LAMP CONT |
| 23 | W | LED LH |
| 24 | B | GND |

| Connector No. | D101 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO MAIN HARNESS |
| 2 | B | TO MAIN HARNESS |
| 3 | W/L | TO MAIN HARNESS |
| 4 | V | TO MAIN HARNESS |
| 5 | W/B | TO MAIN HARNESS |
| 6 | G/Y | TO MAIN HARNESS |
| 7 | W/B | TO MAIN HARNESS |
| 8 | L/B | TO MAIN HARNESS |
| 9 | G/Y | TO MAIN HARNESS |
| 10 | – | TO MAIN HARNESS |

| Connector No. | D107 |
|---|---|
| Connector Name | DOOR MIRROR RH |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | BR | SWITCH MTR UP |
| 2 | G | SWITCH MTR LT |
| 3 | SB | MTR COMMON |
| 4 | L/R | POWERFOLD UNFOLD+ |
| 5 | L | POWERFOLD FOLD+ |
| 6 | B/W | HEATED MIRROR + |
| 7 | B | VCC |
| 8 | R | VIDEO + |
| 9 | G/Y | FR TURN RH |
| 10 | B | GND |
| 11 | LG/B | EC FEED |
| 12 | Y/V | EC RETURN |
| 13 | L | MEMORY GND |
| 14 | V | MEMORY FEED |
| 15 | Y | HOR SENSOR |
| 16 | BR | VER SENSOR |
| 17 | – | – |
| 18 | B | MEMORY GND |
| 19 | W | GND |
| 20 | SHIELD | VIDEO - |
| 21 | R/G | BAT SAVER OUT |
| 22 | L | ROOM LAMP CONT |
| 23 | R | LED RH |
| 24 | B | GND |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |

| 22C | SHIELD | TO CHASSIS HARNESS |
|---|---|---|
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 52C | V/W | TO CHASSIS HARNESS |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |

| Connector No. | E63 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/Y | FR FLASHER |

| Connector No. | E64 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/B | FL FLASHER |

| Connector No. | E79 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 19 | B | GND |
| 20 | – | – |
| 21 | G/Y | FR FLASHER |

| Connector No. | E80 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 19 | B | GND |
| 20 | – | – |
| 21 | G/B | FL FLASHER |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

AALIA5675GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M8 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO FRONT DOOR LH HARNESS |
| 2 | G/B | TO FRONT DOOR LH HARNESS |
| 3 | L | TO FRONT DOOR LH HARNESS |
| 4 | R | TO FRONT DOOR LH HARNESS |
| 5 | W/R | TO FRONT DOOR LH HARNESS |
| 6 | W/L | TO FRONT DOOR LH HARNESS |
| 7 | V | TO FRONT DOOR LH HARNESS |
| 8 | B | TO FRONT DOOR LH HARNESS |
| 9 | L/W | TO FRONT DOOR LH HARNESS |
| 10 | L/R | TO FRONT DOOR LH HARNESS |
| 11 | L/W | TO FRONT DOOR LH HARNESS |
| 12 | L | TO FRONT DOOR LH HARNESS |
| 13 | Y | TO FRONT DOOR LH HARNESS |
| 14 | SB | TO FRONT DOOR LH HARNESS |
| 15 | V | TO FRONT DOOR LH HARNESS |
| 16 | LG | TO FRONT DOOR LH HARNESS |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |

| 7 | – | – |
|---|---|---|
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| 43 | – | – |
|---|---|---|
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |

| Connector No. | M20 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FGY-NH |
| Connector Color | GRAY |

H.S.

| 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 81 | – | – |
| 82 | W | RL DOOR SW |
| 83 | – | – |
| 84 | – | – |
| 85 | – | – |
| 86 | G/B | TRAILER FLASHER RL |
| 87 | Y/B | TRAILER FLASHER RR |
| 88 | – | – |
| 89 | – | – |
| 90 | – | – |
| 91 | – | – |
| 92 | O | RR FLASHER |
| 93 | R | RR DOOR SW |
| 94 | G | AS DOOR SW |
| 95 | – | – |
| 96 | B/G | DR DOOR SW |
| 97 | P/L | CARGO LAMP SW |
| 98 | – | – |
| 99 | – | – |
| 100 | – | – |
| 101 | – | – |
| 102 | – | – |
| 103 | G/B | RL FLASHER |
| 104 | – | – |

AALIA5676GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M47 |
|---|---|
| Connector Name | HAZARD SWITCH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.



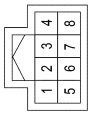

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/B | ILLUMINATION - |
| 2 | W/B | HAZARD SW |
| 3 | B | GND |
| 4 | GR | ILLUMINATION + |

AALIA5677GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

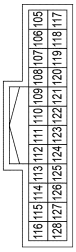
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

| Connector No. | M80 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FB-NH |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 105 | G/Y | FR FLASHER |
| 106 | - | - |
| 107 | W | LOW SIDE START SW LED |
| 108 | L/R | SHIFT LOCK SOLENOID OUT |
| 109 | - | - |
| 110 | - | - |
| 111 | P | ACC LED |
| 112 | - | - |
| 113 | L | ACC RELAY OUT |
| 114 | W | AS DOOR ANT A |
| 115 | BG | AS DOOR ANT B |
| 116 | W | ROOM ANT 2 A |
| 117 | G/B | FL FLASHER |
| 118 | - | - |
| 119 | R | RF NIMOCO |
| 120 | - | - |
| 121 | G | DR DOOR ANT B |
| 122 | P | DR DOOR ANT A |
| 123 | W | ROOM ANT 1 A |
| 124 | G | ROOM ANT 1 B |
| 125 | - | - |
| 126 | P | IMMO START BUTTON ANT B |
| 127 | BG | IMMO START BUTTON ANT A |
| 128 | B | ROOM ANT 2 B |

| Connector No. | M75 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10MW-CS |
| Connector Color | WHITE |

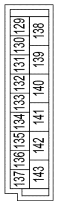
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO FRONT DOOR RH HARNESS |
| 2 | B | TO FRONT DOOR RH HARNESS |
| 3 | W/L | TO FRONT DOOR RH HARNESS |
| 4 | V | TO FRONT DOOR RH HARNESS |
| 5 | W/B | TO FRONT DOOR RH HARNESS |
| 6 | G/Y | TO FRONT DOOR RH HARNESS |
| 7 | W/B | TO FRONT DOOR RH HARNESS |
| 8 | L/B | TO FRONT DOOR RH HARNESS |
| 9 | G/Y | TO FRONT DOOR RH HARNESS |
| 10 | - | TO FRONT DOOR RH HARNESS |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

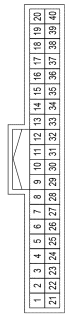
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | - | - |
| 5 | - | - |
| 6 | R | BAT |

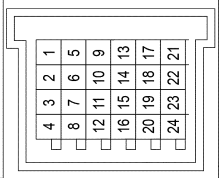
| 7 | V | SECURITY |
|---|---|---|
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | - | - |
| 18 | P | TRIP RESET SW |
| 19 | - | - |
| 20 | R | OUTSIDE TEMP GND |
| 21 | - | - |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | - | - |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | - | - |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | - | - |
| 40 | GR | ILL CONT OUT |

AALIA5678GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| | |
|---|---|
| Connector No. | M191 |
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.



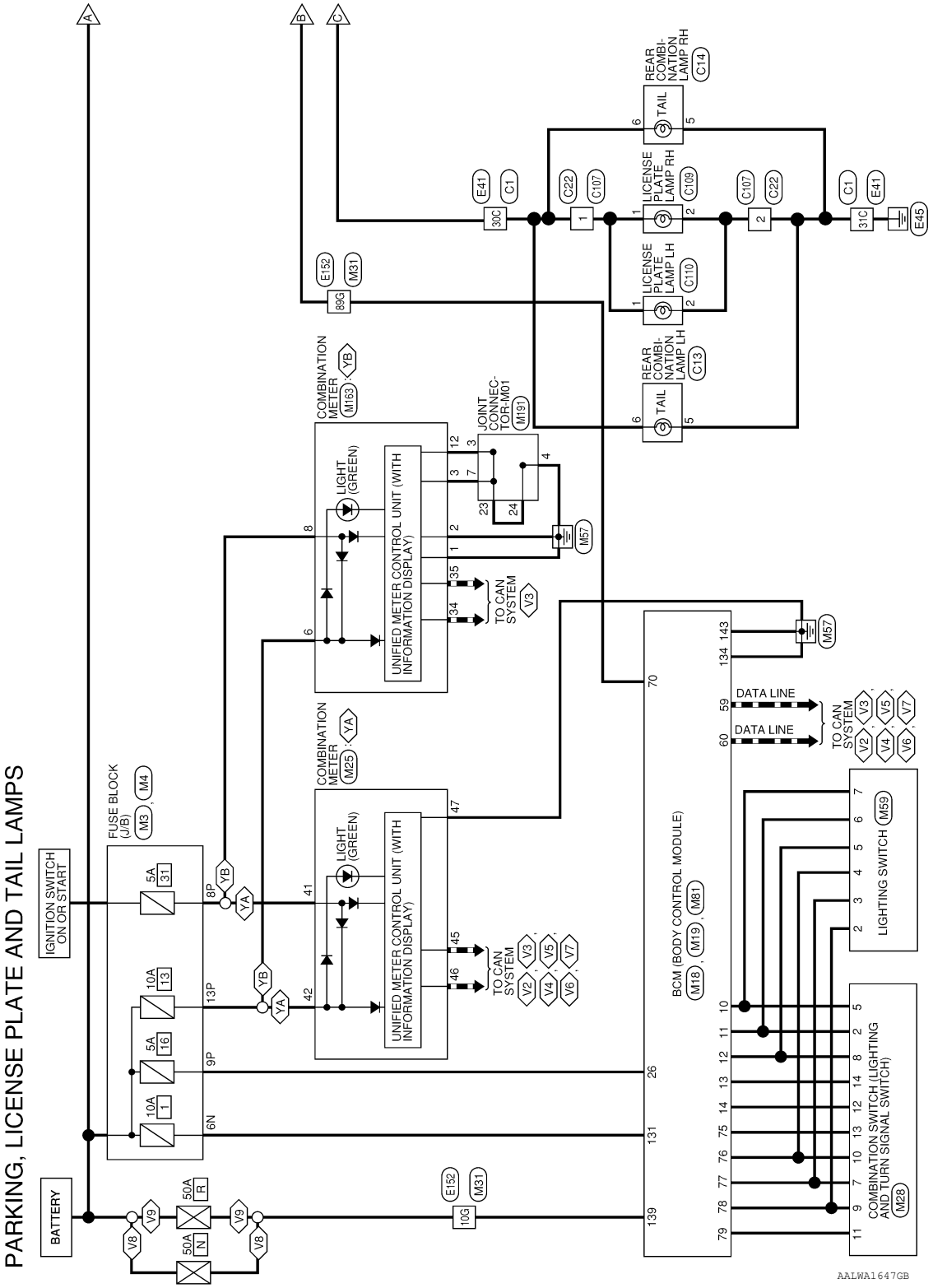

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

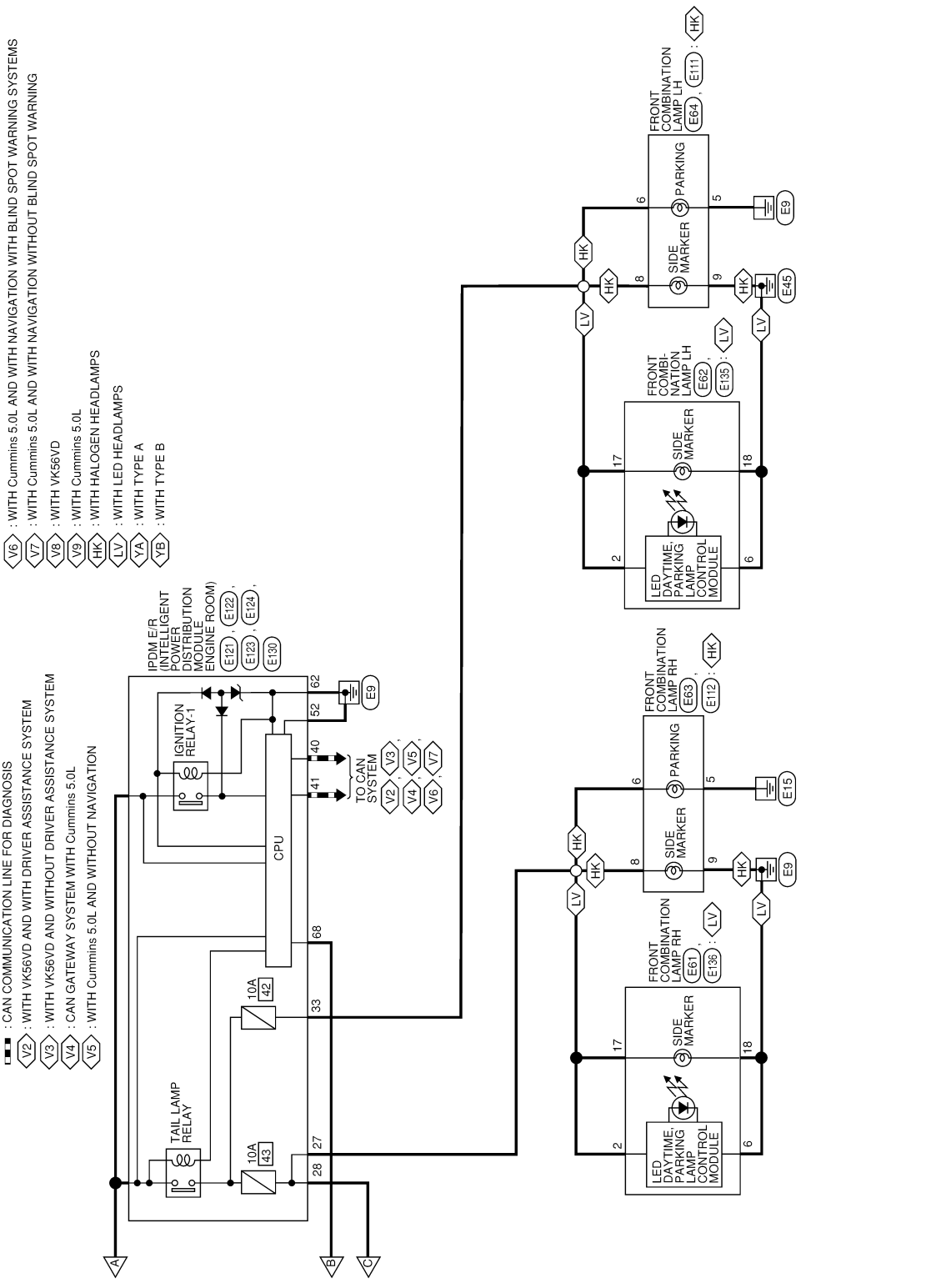
AALIA5679GB

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

## Wiring Diagram

INFOID:0000000014388734




: CAN COMMUNICATION LINE FOR DIAGNOSIS
V2 : WITH VK56VD AND WITH DRIVER ASSISTANCE SYSTEM
V3 : WITH VK56VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
V4 : CAN GATEWAY SYSTEM WITH Cummins 5.0L
V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
YA : WITH TYPE A
YB : WITH TYPE B
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E122, E124, E121, E123, E130
IGNITION RELAY-1
CPU
TO CAN SYSTEM
TAIL LAMP RELAY
10A 42
10A 43
FRONT COMBINATION LAMP LH
E64, E111
FRONT COMBI-NATION LAMP LH
E62, E135
FRONT COMBINATION LAMP RH
E63, E112
FRONT COMBINATION LAMP RH
E61, E136
SIDE MARKER
PARKING
LED DAYTIME, PARKING LAMP CONTROL MODULE
E9
E45
E15
AALWA1648GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/Y | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | C22 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | W02FW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TO CHASSIS SUB HARNESS |
| 2 | B | TO CHASSIS SUB HARNESS |

| Connector No. | C107 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | W02MW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TO CHASSIS HARNESS |
| 2 | B | TO CHASSIS HARNESS |

| Connector No. | C109 |
|---|---|
| Connector Name | LICENSE PLATE LAMP RH |
| Connector Type | RH02FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TAIL LAMP RELAY |
| 2 | B | GROUND |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | C110 |
|---|---|
| Connector Name | LICENSE PLATE LAMP LH |
| Connector Type | RH02FB |
| Connector Color | BLACK |

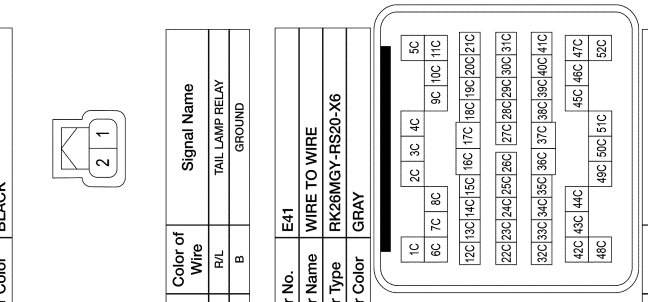
H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TAIL LAMP RELAY |
| 2 | B | GROUND |

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

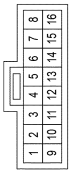
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E61 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

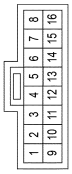
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | R/Y | HEADLAMP LO |
| 5 | L/W | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | BR | LED H/LAMP |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E62 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | L | HEADLAMP LO |
| 5 | G | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | W | LED H/LAMP LH |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E63 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/Y | FR FLASHER |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | E64 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.

5 6 7

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/B | FL FLASHER |

| Connector No. | E111 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

8 9

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 8 | R/L | SIDE MARKER |
| 9 | B | GND |

| Connector No. | E112 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

8 9

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 8 | R/L | SIDE MARKER |
| 9 | B | GND |

| Connector No. | E121 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS12FBR-CS |
| Connector Color | BROWN |

H.S.

29 28 27 26 25
36 35 34 33 32 31 30

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 25 | BR | ECM VB - (WITH CUMMINS 5.0L) |
| 25 | W | ECM VB - (WITH VK56VD) |
| 26 | V | O2 SENS - (WITH VK56VD) |
| 27 | R/L | PARKING RH |
| 28 | R/L | TAIL 1 |
| 29 | Y | FR WIPER HI |
| 30 | - | - |
| 31 | L | ECM RLY CONT |
| 32 | L | ECM BAT - (WITH VK56VD) |
| 33 | R/L | PARKING LH |
| 34 | R/W | TAIL 2 |
| 35 | BR | FR WIPER LO |
| 36 | - | - |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

42 41 40 39 38 37
48 47 46 45 44 43

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | - | - |
| 38 | - | - |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | - | - |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.

51 50 49
56 55 54 53 52

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | - | - |
| 52 | B | S-GND |
| 53 | - | - |
| 54 | - | - |

| 55 | - | - |
|---|---|---|
| 56 | - | - |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

59 58 57
62 61 60

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | B | P GND |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

67 66 65 64 63
72 71 70 69 68

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E135 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

17 18

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 17 | R/L | RLY POWER |
| 18 | B | GND |

| Connector No. | E136 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

17 18

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 17 | R/L | RLY POWER |
| 18 | B | GND |

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.

5G 4G 3G 2G 1G
10G 9G 8G 7G 6G

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |

| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
|---|---|---|
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |

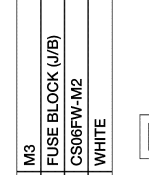
| 54G | W | TO MAIN HARNESS |
|---|---|---|
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

AALIA5664GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

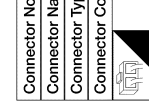
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

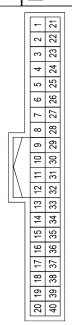



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |

| 16P | W | BLOWER FAN RELAY OUT |
|---|---|---|

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

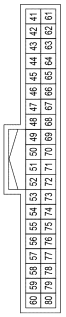



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |

| 37 | – | – |
|---|---|---|
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

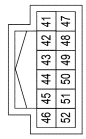



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |

| 73 | – | – |
|---|---|---|
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

AALIA5665GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.

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

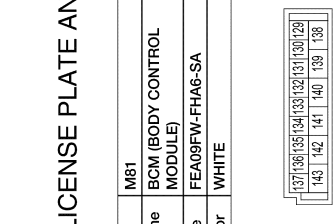
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

AALIA5666GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

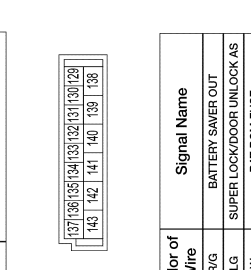
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

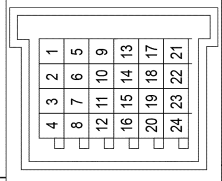
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | – | – |
| 5 | – | – |
| 6 | R | BAT |
| 7 | V | SECURITY |
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | GR | ILL CONT OUT |

| Connector No. | M191 |
|---|---|
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.



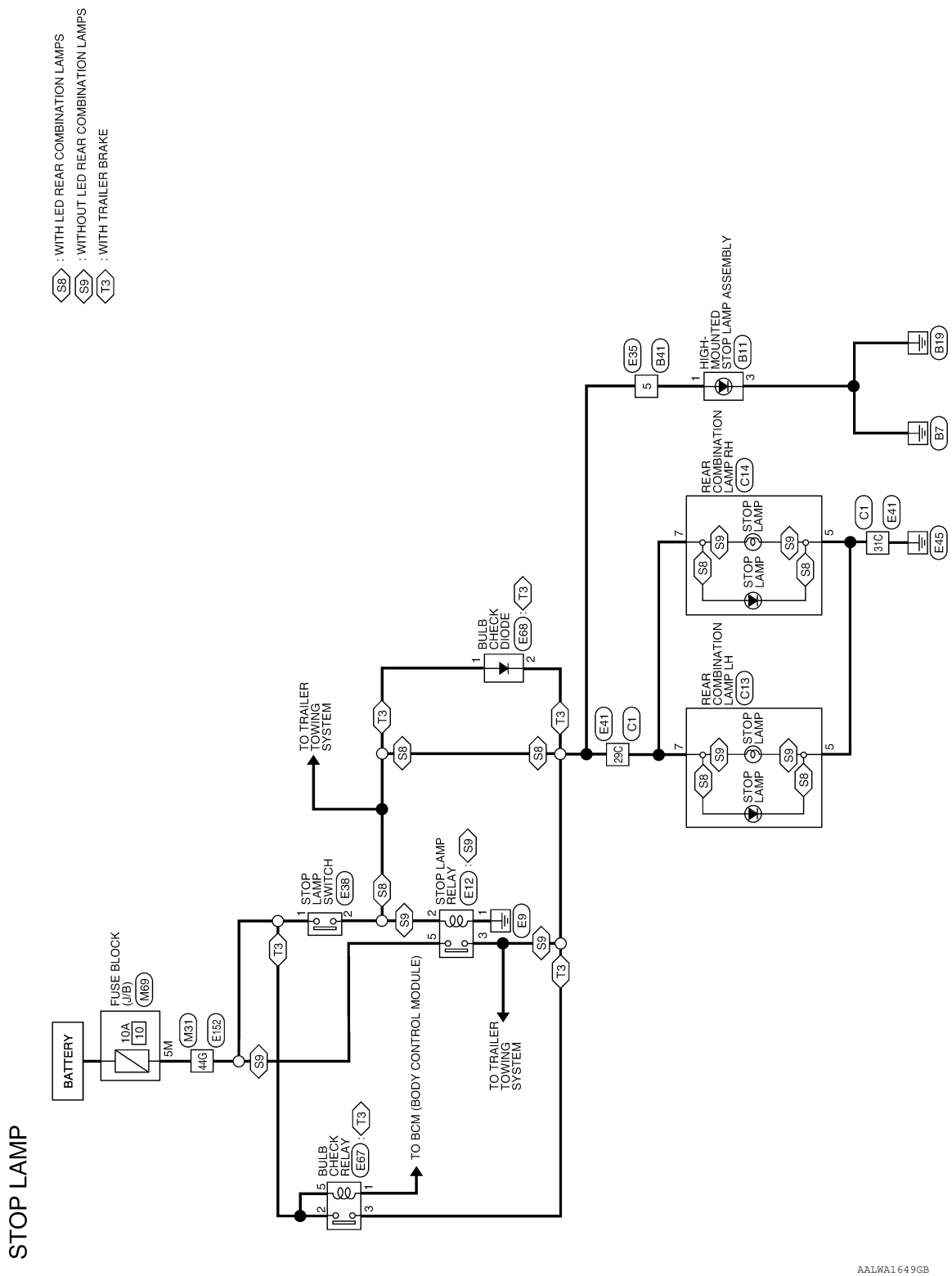

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GROUND |
| 4 | B | – |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

AALIA5667GB

# STOP LAMP

## Wiring Diagram

INFOID:0000000014388735

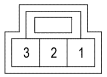



AALWA1649GB

## STOP LAMP CONNECTORS

| Connector No. | B11 |
|---|---|
| Connector Name | HIGH-MOUNTED STOP LAMP ASSEMBLY |
| Connector Type | NS03FW-CS |
| Connector Color | WHITE |

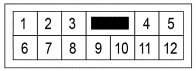
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/G | STOP LAMP |
| 2 | LG | CARGO LAMP |
| 3 | B | GND |

| Connector No. | B41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12MW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y | TO ENGINE ROOM HARNESS |
| 2 | V | TO ENGINE ROOM HARNESS |
| 3 | L | TO ENGINE ROOM HARNESS |
| 4 | L/G | TO ENGINE ROOM HARNESS |
| 5 | R/G | TO ENGINE ROOM HARNESS |
| 6 | SB | TO ENGINE ROOM HARNESS |
| 7 | P | TO ENGINE ROOM HARNESS |
| 8 | L | TO ENGINE ROOM HARNESS |
| 9 | SHIELD | TO ENGINE ROOM HARNESS |
| 10 | W/G | TO ENGINE ROOM HARNESS |
| 11 | L | TO ENGINE ROOM HARNESS |
| 12 | BR | TO ENGINE ROOM HARNESS |

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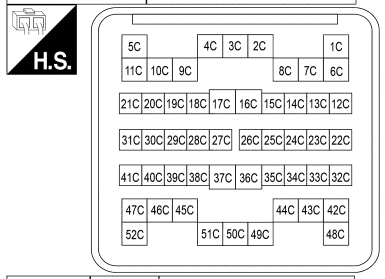
| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

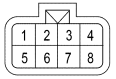
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

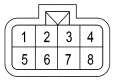
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

STOP LAMP CONNECTORS

| Connector No. | E12 |
|---|---|
| Connector Name | STOP LAMP RELAY |
| Connector Type | MS02FL-M2-LC |
| Connector Color | BLUE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | W | RELAY CONTROL |
| 3 | R/G | STOP LAMPS |
| 5 | R/Y | BATTERY |

| Connector No. | E35 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y | TO BODY HARNESS |
| 2 | V | TO BODY HARNESS |
| 3 | L | TO BODY HARNESS |
| 4 | W | TO BODY HARNESS |
| 5 | R/G | TO BODY HARNESS |
| 6 | SB | TO BODY HARNESS |
| 7 | P | TO BODY HARNESS |
| 8 | L | TO BODY HARNESS |
| 9 | SHIELD | TO BODY HARNESS |
| 10 | B | TO BODY HARNESS |
| 11 | R | TO BODY HARNESS |
| 12 | BR | TO BODY HARNESS |

| Connector No. | E38 |
|---|---|
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M04FW-LC |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/Y | BATTERY |
| 2 | W | RELAY CONT - (WITHOUT LED REAR COMBINATION LAMPS) |
| 2 | R/G | STOP LAMPS - (WITH LED REAR COMBINATION LAMPS) |
| 3 | GR | IGNITION |
| 4 | R/B | STOP 2 |

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E67 |
|---|---|
| Connector Name | BULB CHECK RELAY |
| Connector Type | MS02FL-M2-LC |
| Connector Color | BLUE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y/L | BULB CHECK RLY OUT |
| 2 | R/Y | BATTERY |
| 3 | G/R | STOP LAMPS |
| 5 | R/Y | BATTERY |

| Connector No. | E68 |
|---|---|
| Connector Name | BULB CHECK DIODE |
| Connector Type | 24335_C9900 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/G | STOP LAMP |
| 2 | G/R | STOP LAMP |

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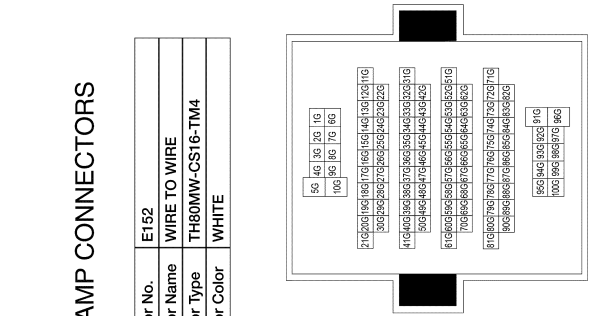
STOP LAMP CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

AALIA5670GB

STOP LAMP CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M69 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1M | GR | IGNITION |
| 2M | – | – |
| 3M | – | – |
| 4M | – | – |
| 5M | R/Y | BATTERY |
| 6M | R/W | TAIL LAMP 2 |
| 7M | – | – |
| 8M | – | – |
| 9M | – | – |
| 10M | W/R | IGNITION |

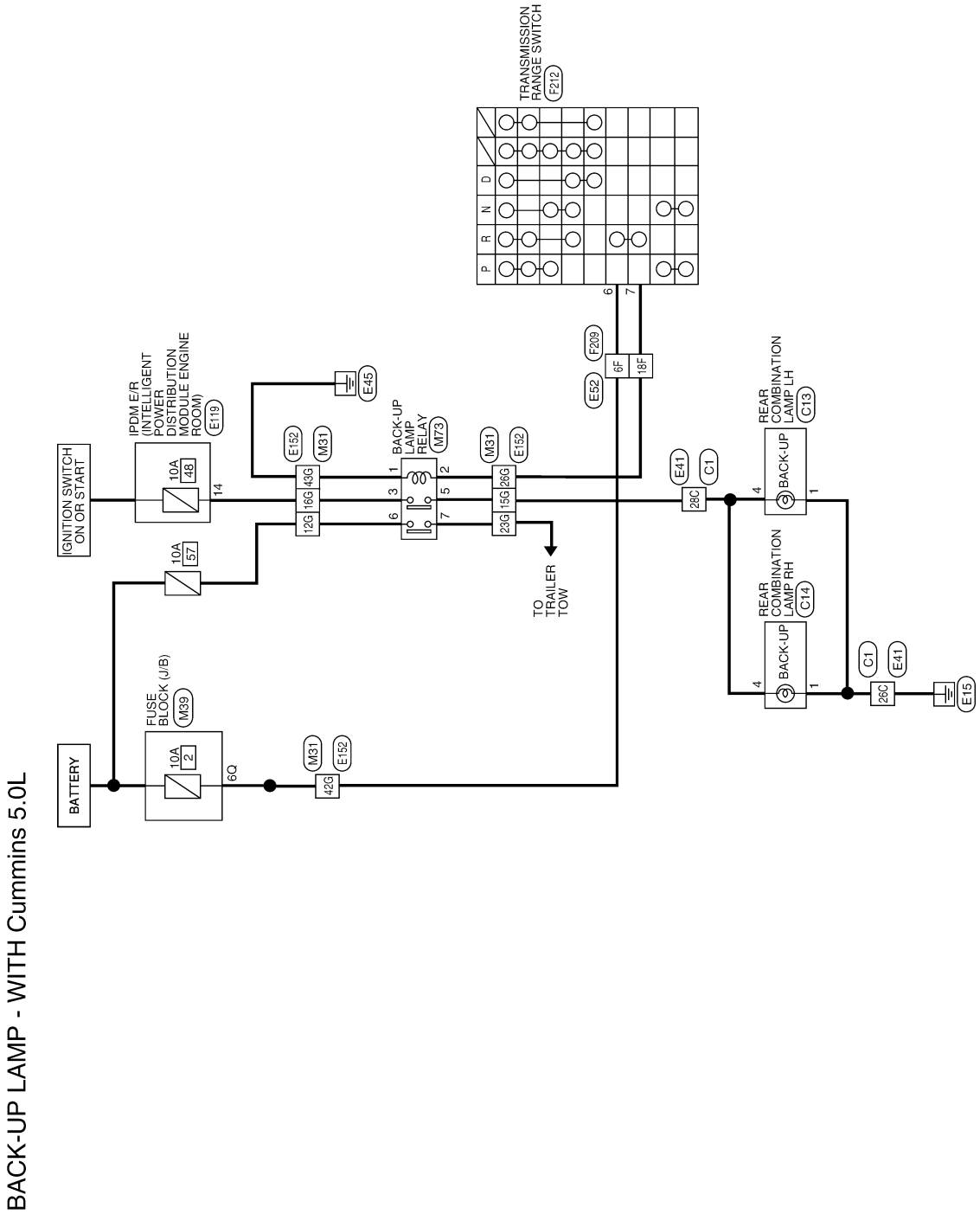
AALIA5671GB

# BACK-UP LAMP

## DIESEL ENGINE MODELS

### DIESEL ENGINE MODELS : Wiring Diagram

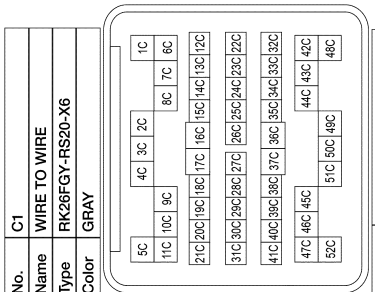
INFOID:0000000014388736



BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

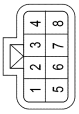
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

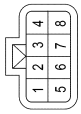
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | P/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

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BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

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BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | E52 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 2F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 3F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 4F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 5F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 6F | O | TO ENGINE CONTROL NO. 2 HARNESS |
| 7F | GR/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 8F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 9F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 10F | Y/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 11F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 12F | R | TO ENGINE CONTROL NO. 2 HARNESS |
| 13F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 14F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 15F | SB | TO ENGINE CONTROL NO. 2 HARNESS |
| 16F | P | TO ENGINE CONTROL NO. 2 HARNESS |
| 17F | Y/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 18F | R | TO ENGINE CONTROL NO. 2 HARNESS |
| 19F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 20F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 21F | L/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 22F | L/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 23F | R/L | TO ENGINE CONTROL NO. 2 HARNESS |
| 24F | W/L | TO ENGINE CONTROL NO. 2 HARNESS |
| 25F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 26F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 27F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 28F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 29F | L/O | TO ENGINE CONTROL NO. 2 HARNESS |
| 30F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 31F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 32F | V/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 33F | GR | TO ENGINE CONTROL NO. 2 HARNESS |
| 34F | L/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 35F | R/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 36F | L/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 37F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 38F | R/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 39F | R/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 40F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 41F | W | TO ENGINE CONTROL NO. 2 HARNESS |
| 42F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 43F | B/P | TO ENGINE CONTROL NO. 2 HARNESS |
| 44F | Y/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 45F | L/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 46F | O | TO ENGINE CONTROL NO. 2 HARNESS |
| 47F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 48F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 49F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 50F | SHIELD | TO ENGINE CONTROL NO. 2 HARNESS |
| 51F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 52F | BR | TO ENGINE CONTROL NO. 2 HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | - | – |

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BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | F209 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1F | Y/R | TO ENGINE ROOM HARNESS |
| 2F | B | TO ENGINE ROOM HARNESS |
| 3F | B/Y | TO ENGINE ROOM HARNESS |
| 4F | W/R | TO ENGINE ROOM HARNESS |
| 5F | B/R | TO ENGINE ROOM HARNESS |
| 6F | O/L | TO ENGINE ROOM HARNESS |
| 7F | GR | TO ENGINE ROOM HARNESS |
| 8F | P | TO ENGINE ROOM HARNESS |
| 9F | BR/W | TO ENGINE ROOM HARNESS |
| 10F | G/Y | TO ENGINE ROOM HARNESS |
| 11F | L/W | TO ENGINE ROOM HARNESS |
| 12F | R/W | TO ENGINE ROOM HARNESS |
| 13F | G/Y | TO ENGINE ROOM HARNESS |
| 14F | V/W | TO ENGINE ROOM HARNESS |
| 15F | LG | TO ENGINE ROOM HARNESS |
| 16F | R/Y | TO ENGINE ROOM HARNESS |
| 17F | BR/Y | TO ENGINE ROOM HARNESS |
| 18F | R | TO ENGINE ROOM HARNESS |
| 19F | V | TO ENGINE ROOM HARNESS |
| 20F | BR | TO ENGINE ROOM HARNESS |
| 21F | L/R | TO ENGINE ROOM HARNESS |
| 22F | L/LG | TO ENGINE ROOM HARNESS |
| 23F | SB | TO ENGINE ROOM HARNESS |
| 24F | W/L | TO ENGINE ROOM HARNESS |
| 25F | W/B | TO ENGINE ROOM HARNESS |
| 26F | B/Y | TO ENGINE ROOM HARNESS |
| 27F | Y | TO ENGINE ROOM HARNESS |
| 28F | W/R | TO ENGINE ROOM HARNESS |
| 29F | L/O | TO ENGINE ROOM HARNESS |
| 30F | B | TO ENGINE ROOM HARNESS |
| 31F | B | TO ENGINE ROOM HARNESS |
| 32F | V | TO ENGINE ROOM HARNESS |
| 33F | BG | TO ENGINE ROOM HARNESS |
| 34F | L/R | TO ENGINE ROOM HARNESS |
| 35F | R/W | TO ENGINE ROOM HARNESS |
| 36F | L/B | TO ENGINE ROOM HARNESS |
| 37F | L/O | TO ENGINE ROOM HARNESS |
| 38F | Y/W | TO ENGINE ROOM HARNESS |
| 39F | R/Y | TO ENGINE ROOM HARNESS |
| 40F | G/B | TO ENGINE ROOM HARNESS |
| 41F | W | TO ENGINE ROOM HARNESS |
| 42F | Y | TO ENGINE ROOM HARNESS |
| 43F | B/P | TO ENGINE ROOM HARNESS |
| 44F | Y/B | TO ENGINE ROOM HARNESS |
| 45F | L/Y | TO ENGINE ROOM HARNESS |
| 46F | O | TO ENGINE ROOM HARNESS |
| 47F | W/L | TO ENGINE ROOM HARNESS |
| 48F | L | TO ENGINE ROOM HARNESS |
| 49F | BR | TO ENGINE ROOM HARNESS |
| 50F | SHIELD | TO ENGINE ROOM HARNESS |
| 51F | L | TO ENGINE ROOM HARNESS |
| 52F | BR | TO ENGINE ROOM HARNESS |

AALIA5628GB

BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | F212 |
|---|---|
| Connector Name | TRANSMISSION RANGE SWITCH |
| Connector Type | HS10FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/W | RANGE SIGNAL C |
| 2 | P | RANGE SIGNAL B |
| 3 | R/Y | IGNITION |
| 4 | GR | RANGE SIGNAL PA |
| 5 | Y/R | RANGE SIGNAL A |
| 6 | O/L | BATTERY |
| 7 | R | REVERSE RELAY CONT |
| 8 | B/R | NP SW |
| 9 | BR/Y | IGNITION RELAY |
| 10 | - | - |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | - | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | - | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | - | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | - | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M39 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1Q | - | - |
| 2Q | O/L | IGNITION |
| 3Q | - | - |
| 4Q | - | - |
| 5Q | - | - |
| 6Q | R/W | BATTERY |
| 7Q | R/W | IGNITION |
| 8Q | - | - |

AALIA5629GB

BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| | |
|---|---|
| Connector No. | M73 |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | M06FBR-R-LC |
| Connector Color | BROWN |

H.S.

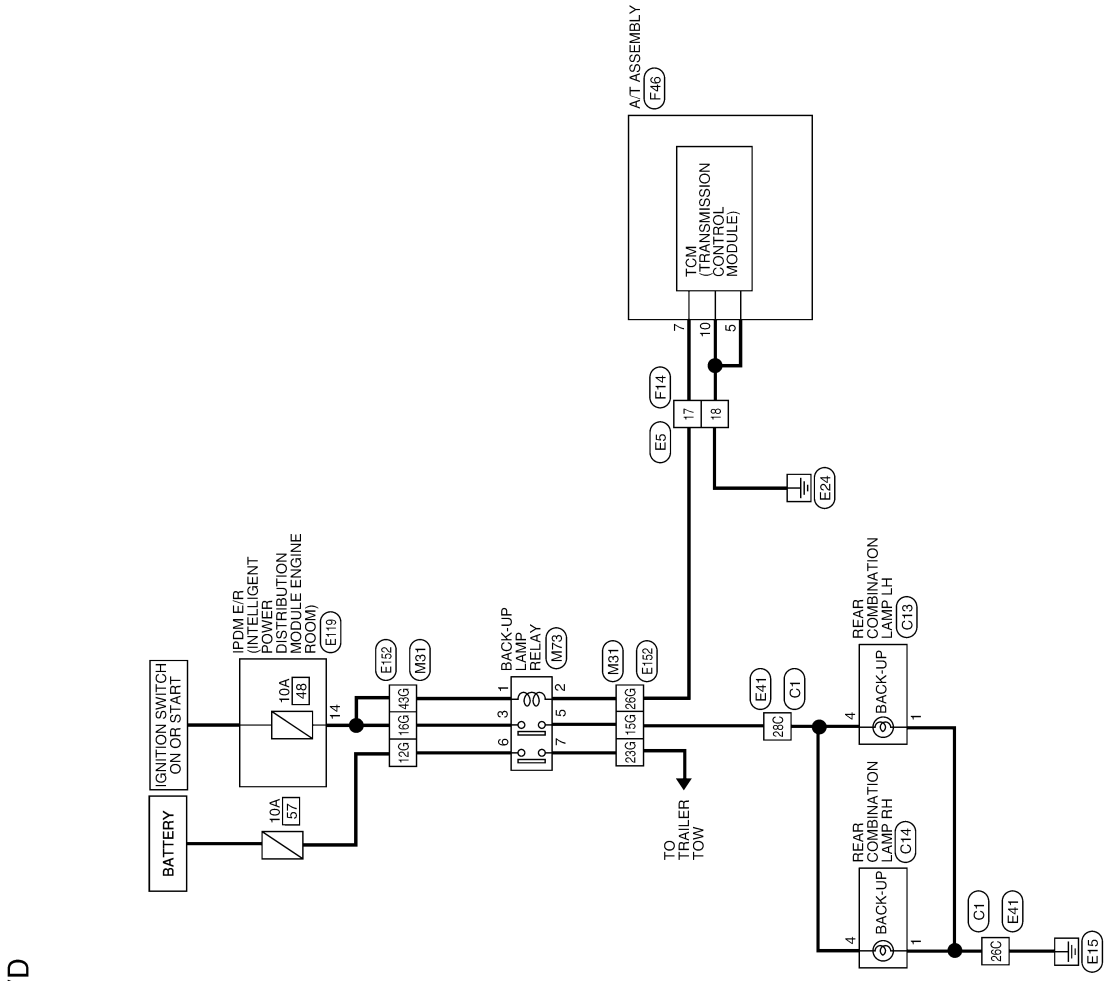
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | GROUND |
| 2 | R | REV LAMP RELAY CONTROL |
| 3 | G | IGNITION |
| 5 | G/W | REVERSE |
| 6 | W/B | BATTERY |
| 7 | Y/R | REVERSE |

AALIA5699GB

VK56VD

## VK56VD : Wiring Diagram

INFOID:0000000014388737

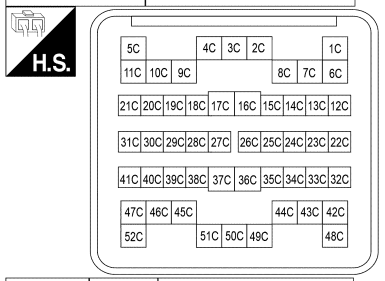



BACK-UP LAMP - WITH VK56VD

AALWA1636GB

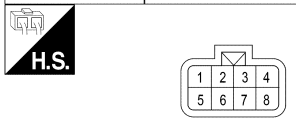
# BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |



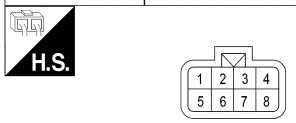

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |



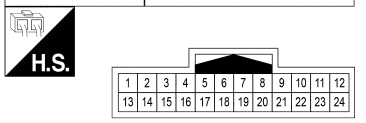

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | E5 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/R | TO ENGINE CONTROL HARNESS |
| 2 | BR | TO ENGINE CONTROL HARNESS |
| 3 | V | TO ENGINE CONTROL HARNESS |
| 4 | L/O | TO ENGINE CONTROL HARNESS |
| 5 | W | TO ENGINE CONTROL HARNESS |
| 6 | B/R | TO ENGINE CONTROL HARNESS |
| 7 | Y/R | TO ENGINE CONTROL HARNESS |
| 8 | BR | TO ENGINE CONTROL HARNESS |
| 9 | W/L | TO ENGINE CONTROL HARNESS |
| 10 | L/Y | TO ENGINE CONTROL HARNESS |
| 11 | SB | TO ENGINE CONTROL HARNESS |
| 12 | L | TO ENGINE CONTROL HARNESS |
| 13 | W/R | TO ENGINE CONTROL HARNESS |
| 14 | Y | TO ENGINE CONTROL HARNESS |
| 15 | B | TO ENGINE CONTROL HARNESS |
| 16 | B | TO ENGINE CONTROL HARNESS |
| 17 | R | TO ENGINE CONTROL HARNESS |
| 18 | B | TO ENGINE CONTROL HARNESS |
| 19 | B/R | TO ENGINE CONTROL HARNESS |
| 20 | GR | TO ENGINE CONTROL HARNESS |
| 21 | V/R | TO ENGINE CONTROL HARNESS |
| 22 | B | TO ENGINE CONTROL HARNESS |
| 23 | B | TO ENGINE CONTROL HARNESS |
| 24 | P | TO ENGINE CONTROL HARNESS |

AALIA5630GB

BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |

| 22C | SHIELD | TO CHASSIS HARNESS |
|---|---|---|
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

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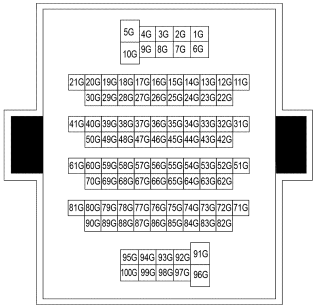
## BACK-UP LAMP CONNECTORS - WITH VK56VD

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

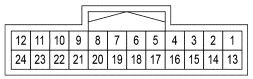
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | F14 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |
| Connector Color | WHITE |

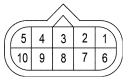
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/R | TO ENGINE ROOM HARNESS |
| 2 | BR | TO ENGINE ROOM HARNESS |
| 3 | V | TO ENGINE ROOM HARNESS |
| 4 | L/O | TO ENGINE ROOM HARNESS |
| 5 | W | TO ENGINE ROOM HARNESS |
| 6 | B/R | TO ENGINE ROOM HARNESS |
| 7 | Y/R | TO ENGINE ROOM HARNESS |
| 8 | BR | TO ENGINE ROOM HARNESS |
| 9 | W/L | TO ENGINE ROOM HARNESS |
| 10 | L/Y | TO ENGINE ROOM HARNESS |
| 11 | SB | TO ENGINE ROOM HARNESS |
| 12 | L | TO ENGINE ROOM HARNESS |
| 13 | W/R | TO ENGINE ROOM HARNESS |
| 14 | Y | TO ENGINE ROOM HARNESS |
| 15 | B | TO ENGINE ROOM HARNESS |
| 16 | B | TO ENGINE ROOM HARNESS |
| 17 | R | TO ENGINE ROOM HARNESS |
| 18 | B | TO ENGINE ROOM HARNESS |
| 19 | B/R | TO ENGINE ROOM HARNESS |
| 20 | GR | TO ENGINE ROOM HARNESS |
| 21 | V/R | TO ENGINE ROOM HARNESS |
| 22 | SHIELD | TO ENGINE ROOM HARNESS |
| 23 | SHIELD | TO ENGINE ROOM HARNESS |
| 24 | P | TO ENGINE ROOM HARNESS |

| | |
|---|---|
| Connector No. | F46 |
| Connector Name | A/T ASSEMBLY (WITH VK56VD) |
| Connector Type | RK10FG |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y/R | VIGN |
| 2 | P | BATT |
| 3 | L | CAN-H |
| 4 | BR | K-LINE |
| 5 | B | GND |
| 6 | Y/R | VIGN |
| 7 | R | REV LAMP RELAY |
| 8 | P | CAN-L |
| 9 | B/R | STARTER RELAY |
| 10 | B | GND |

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BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M73 |
|---|---|
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | M06FBR-R-LC |
| Connector Color | BROWN |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | GROUND |
| 2 | R | REV LAMP RELAY CONTROL |
| 3 | G | IGNITION |
| 5 | G/W | REVERSE |
| 6 | W/B | BATTERY |
| 7 | Y/R | REVERSE |

AALIA5633GB

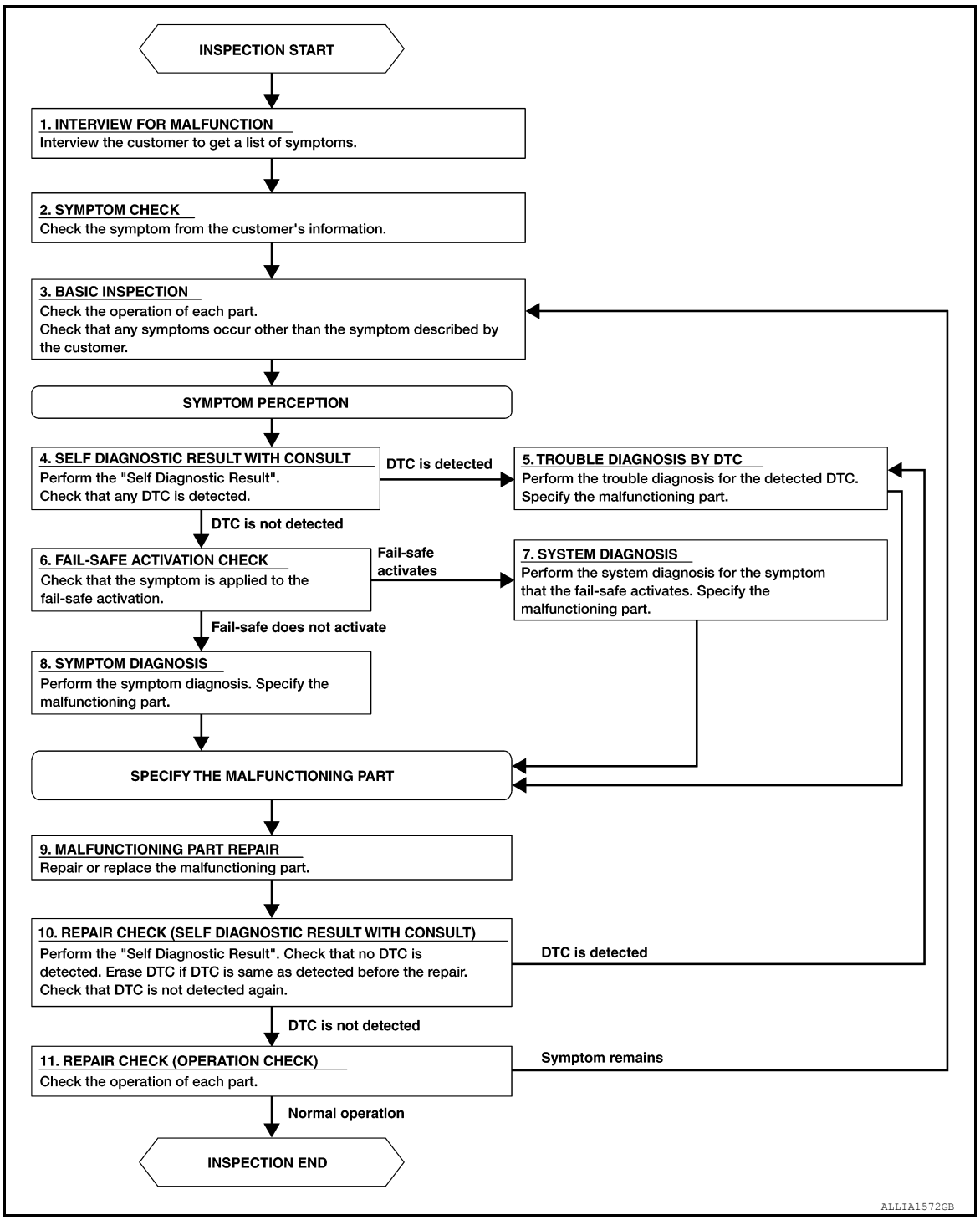
# BASIC INSPECTION

## DIAGNOSIS AND REPAIR WORKFLOW

### Work Flow

INFOID:0000000014388738

#### OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

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

>> GO TO 4.

4.SELF DIAGNOSTIC RESULT WITH CONSULT

Perform the “Self Diagnostic Result”. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 6.

5.TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9.

6.FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.
NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

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

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9.MALFUNCTIONING PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10.REPAIR CHECK (SELF DIAGNOSTIC RESULT WITH CONSULT)

Perform the “Self Diagnostic Result”. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 11.

## 11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> Inspection End.
NO >> GO TO 3.

# DTC/CIRCUIT DIAGNOSIS

## HEADLAMP (HI) CIRCUIT

### Component Function Check

INFOID:0000000014388739

### 1.CHECK HEADLAMP (HI) OPERATION

With CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the headlamp (HI) blinks.

**Hi : Headlamp (HI) blinks (ON/OFF is repeated 1 second each.)**
**Off : Headlamp (HI) OFF**

Without CONSULT
1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp (HI) blinks.

Is the inspection result normal?

YES >> Headlamp (HI) circuit is normal.
NO >> Refer to EXL-97, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000014388740

Regarding Wiring Diagram information, refer to EXL-27, "Wiring Diagram".

### 1.CHECK FRONT COMBINATION LAMP (HI) FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp HI (RH) | IPDM E/R | 44 | 10 A |
| Headlamp HI (LH) | | 45 | |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2.CHECK FRONT COMBINATION LAMP (HI) OUTPUT VOLTAGE

With CONSULT
1. Disconnect applicable front combination lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable front combination lamp harness connector and ground.

| (+) | | | (-) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | E6 | 3 | Ground | EXTERNAL LAMPS | Hi | Battery voltage |
| | | | | | Off | 0 |
| LH | E11 | | | | Hi | Battery voltage |
| | | | | | Off | 0 |

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 3.

## 3. CHECK FRONT COMBINATION LAMP (HI) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E119 and front combination lamp harness connector E6, or E11.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E6 | 3 | E119 | 5 | Yes |
| LH | E11 | | | 6 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

## 4. CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between front combination lamp harness connector terminal 4 and ground.

| Front combination lamp connector | | Terminal | — | Continuity |
|---|---|---|---|---|
| RH | E6 | 4 | Ground | Yes |
| LH | E11 | | | |

Is the inspection result normal?

YES >> Replace the headlamp bulb. Refer to EXL-148, "Exploded View".
NO >> Repair or replace the harness or connector.

# HEADLAMP (LO) CIRCUIT

## Component Function Check

INFOID:0000000014388741

### 1.CHECK HEADLAMP (LO) OPERATION

With CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the headlamp (LO) is turned ON.

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

Without CONSULT
1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp (LO) is turned ON.

Is the inspection result normal?

YES >> Headlamp (LO) circuit is normal.
NO >> Refer to EXL-99, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388742

Regarding Wiring Diagram information, refer to EXL-27, "Wiring Diagram".

### 1.CHECK FRONT COMBINATION LAMP (LO) FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp LO (RH) | IPDM E/R | 38 | 15A |
| Headlamp LO (LH) | | 39 | |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2.CHECK FRONT COMBINATION LAMP (LO) OUTPUT VOLTAGE

With CONSULT
1. Disconnect applicable front combination lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable front combination lamp harness connector and ground.

| (+) | | | (-) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | E54 | 1 | Ground | EXTERNAL LAMPS | Lo | Battery voltage |
| | | | | | Off | 0 |
| LH | E53 | | | | Lo | Battery voltage |
| | | | | | Off | 0 |

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 3.

## 3. CHECK FRONT COMBINATION LAMP (LO) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E119 and front combination lamp harness connector E54, or E53.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E54 | 1 | E119 | 8 | Yes |
| LH | E53 | | | 7 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

## 4. CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between front combination lamp harness connector terminal 2 and ground.

| Front combination lamp connector | | Terminal | — | Continuity |
|---|---|---|---|---|
| RH | E54 | 2 | Ground | Yes |
| LH | E53 | | | |

Is the inspection result normal?

YES >> Replace the headlamp bulb. Refer to EXL-148, "Exploded View".
NO >> Repair or replace the harness or connector.

# DAYTIME RUNNING LIGHT RELAY CIRCUIT

## Component Function Check

INFOID:0000000014388743

### 1.CHECK DAYTIME RUNNING LIGHT OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check daytime running light operation.

**On : EXTERNAL LAMPS Hi**
**Off : EXTERNAL LAMPS Off**

Is the inspection result normal?

YES >> Daytime running light relay circuit is normal.
NO >> Refer to EXL-101, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388744

Regarding Wiring Diagram information, refer to EXL-44, "Wiring Diagram".

### 1.CHECK DAYTIME RUNNING LIGHT RELAY FUSE

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

| Unit | Fuse No. | Capacity |
|---|---|---|
| Daytime running light relay | 62 | 10A |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2.CHECK DAYTIME RUNNING LIGHT RELAY POWER SUPPLY

1. Remove daytime running light relay.
2. Check voltage between daytime running light relay harness connector E103 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Daytime running light relay | | | |
| Connector | Terminal | | |
| E103 | 1 | Ground | Battery voltage |
| | 3 | | |

Is the inspection result normal?

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

### 3.CHECK DAYTIME RUNNING LIGHT RELAY

Check daytime running light relay. Refer to EXL-102, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace daytime running light relay.

### 4.CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL OUTPUT

CONSULT
1. Install daytime running light relay.
2. Turn ignition switch ON.

3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test item, check voltage between IPDM E/R harness connector E122 and ground.

| (+) | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|
| IPDM E/R | | | | | |
| Connector | Terminal | | | | |
| E122 | 42 | Ground | EXTERNAL LAMPS | On | 0 V |
| | | | | Off | Battery voltage |

Is the inspection result normal?

YES >> Daytime running light relay circuit is OK.
NO-1 (Fixed at 0 V)>>GO TO 5.
NO-2 (Fixed at battery voltage) >>Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".

## 5. CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Remove daytime running light relay.
3. Disconnect IPDM E/R harness connector.
4. Check continuity between IPDM E/R harness connector E122 and daytime running light relay harness connector E103.

| IPDM E/R | | Daytime running light relay | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| E122 | 42 | E103 | 2 | Yes |

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the harness or connector.

## 6. CHECK DAYTIME RUNNING LIGHT RELAY CONTROL SIGNAL CIRCUIT (SHORT)

Check continuity between IPDM E/R harness connector E122 and ground.

| IPDM E/R | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E122 | 42 | | No |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

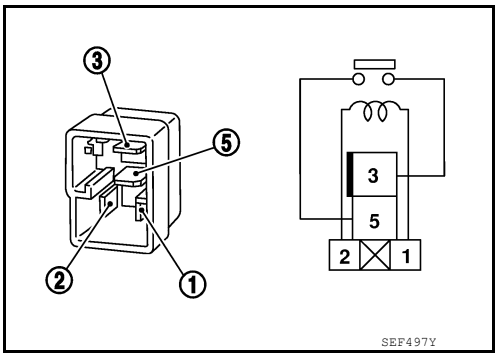
# Component Inspection

INFOID:0000000014388745

## 1. CHECK DAYTIME RUNNING LIGHT RELAY

Check daytime running light relay.

| Terminal | | Condition | Continuity |
|---|---|---|---|
| Daytime running light relay | | | |
| 3 | 5 | 12V direct current supply between terminals 1 and 2. | Yes |
| | | No current supply | No |




Is the inspection result normal?

YES >> Inspection End.
NO >> Replace daytime running light relay.

# PARKING LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388746

### 1.CHECK PARKING LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the parking lamp is turned ON.

**TAIL : Parking lamp ON**
**Off : Parking lamp OFF**

Is the inspection result normal?

YES >> Parking lamp circuit is normal.
NO >> Refer to EXL-103, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388747

Regarding Wiring Diagram information, refer to EXL-68, "Wiring Diagram".

### 1.CHECK PARKING LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| • Parking lamps<br>• Side marker lamps | IPDM E/R | 42 | 10A |
| | | 43 | |

Is the inspection result normal?

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

### 2.CHECK PARKING LAMP CIRCUIT

1. Disconnect the following connectors:
- IPDM E/R
- Front combination lamps
- Rear combination lamps
2. Check continuity between IPDM E/R harness connector E121 and ground.

| IPDM E/R | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E121 | 27 | | No |
| | 33 | | |

Is the inspection result normal?

YES >> Replace fuse. (Replace IPDM E/R if blown fuse is found again.)
NO >> Replace the blown fuse after repairing the affected circuit.

### 3.CHECK PARKING LAMP

Check applicable lamp.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace applicable lamp.

### 4.CHECK PARKING LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect front combination lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between IPDM E/R harness connector E121 and ground.

| (+) | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|
| IPDM E/R | | | | | |
| Connector | Terminal | | | | |
| E121 | 27 | Ground | EXTERNAL LAMPS | TAIL | Battery voltage |
| | | | | Off | 0 V |
| | 33 | | EXTERNAL LAMPS | TAIL | Battery voltage |
| | | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".

## 5. CHECK PARKING LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E121 and front combination lamp harness connector E63, or E64.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E64 | 6 | E121 | 27 | Yes |
| LH | E63 | | | 33 | |

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

## 6. CHECK PARKING LAMP GROUND CIRCUIT

Check continuity between front combination lamp harness connector E63, E64, and ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E64 | 5 | | Yes |
| LH | E63 | | | |

Is the inspection result normal?

YES >> Check corresponding lamp socket and harness. Repair or replace if necessary.
NO >> Repair or replace harness.

# FRONT SIDE MARKER LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388748

### 1.CHECK PARKING LAMP OPERATION

Check that the parking lamp is turned ON.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check parking lamp circuit. Refer to EXL-103, "Component Function Check".

### 2.CHECK FRONT SIDE MARKER LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the front side marker lamp is turned ON.

**TAIL : Front side marker lamp ON**
**Off : Front side marker lamp OFF**

Is the inspection result normal?

YES >> Front side marker lamp circuit is normal.
NO >> Refer to EXL-105, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388749

Regarding Wiring Diagram information, refer to EXL-68, "Wiring Diagram".

### 1.CHECK FRONT SIDE MARKER LAMP BULB

Check applicable lamp bulb.

Is the inspection result normal?

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

### 2.CHECK FRONT SIDE MARKER LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector and front side marker lamp connector.
3. Check continuity between IPDM E/R harness connector E121 and front side marker lamp harness connector E111, and E112.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | E111 | 8 | E121 | 27 | Yes |
| RH | E112 | | | 33 | |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness.

### 3.CHECK FRONT SIDE MARKER LAMP GROUND CIRCUIT

Check continuity between front side marker lamp harness connector E111, E112, and ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | E111 | 9 | | Yes |
| RH | E112 | | | |

Is the inspection result normal?

YES >> Check corresponding bulb socket and harness. Repair or replace if necessary.
NO >> Repair or replace harness.

# TAIL LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388750

### 1.CHECK TAIL LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the tail lamp is turned ON.

**TAIL : Tail lamp ON**
**Off : Tail lamp OFF**

Is the inspection result normal?

YES >> Tail lamp circuit is normal.
NO >> Refer to EXL-107, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388751

Regarding Wiring Diagram information, refer to EXL-68, "Wiring Diagram".

### 1.CHECK PARKING LAMP OPERATION

Check that the parking lamp is turned ON.

Is the inspection result normal?

YES [When tail lamp RH or LH does not turn ON]>>GO TO 2.
NO >> Check parking lamp circuit. Refer to EXL-103, "Component Function Check".

### 2.CHECK TAIL LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Tail lamp RH | IPDM E/R | 43 | 10A |
| Tail lamp LH | | | |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing the affected circuit.

### 3.CHECK TAIL LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect rear combination lamp RH or LH connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable rear combination lamp harness connector and ground.

| (+) | | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Rear combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | C14 | 5 | Ground | EXTERNAL LAMPS | TAIL | Battery voltage |
| | | | | | Off | 0 V |
| LH | C13 | | | | TAIL | Battery voltage |
| | | | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 4.

## 4. CHECK TAIL LAMP POWER SUPPLY CIRCUIT (SHORT)

1. Disconnect IPDM E/R connector E121 and rear combination lamp RH or LH connector C14, or C15.
2. Check continuity between IPDM E/R harness connector E121 and ground.

| (+) | | (–) | Continuity |
|---|---|---|---|
| IPDM E/R | | | |
| Connector | Terminal | | |
| E121 | 28 | Ground | No |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the harness or connector.

## 5. CHECK TAIL LAMP POWER SUPPLY CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E121 and rear combination lamp connector C13, and C14.
3. Check continuity between IPDM E/R harness connector E121 and rear combination lamp harness connector C13, and C14.

| Rear combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | C14 | 6 | E121 | 28 | Yes |
| LH | C13 | | | | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

## 6. CHECK TAIL LAMP GROUND CIRCUIT

Check continuity between rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | C14 | 5 | | Yes |
| LH | C13 | | | |

Is the inspection result normal?

YES >> Replace rear combination lamp. Refer to EXL-145, "Bulb Replacement".
NO >> Repair or replace the harness or connector.

# LICENSE PLATE LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388752

### 1.CHECK TAIL LAMP LH OPERATION

Check that the tail lamp LH is turned ON.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check tail lamp circuit. Refer to EXL-107, "Component Function Check".

### 2.CHECK LICENSE PLATE LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While 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 inspection result normal?

YES >> License plate lamp circuit is normal.
NO >> Refer to EXL-109, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388753

Regarding Wiring Diagram information, refer to EXL-68, "Wiring Diagram".

### 1.CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the inspection result normal?

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

### 2.CHECK LICENSE PLATE LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E121 and license plate lamp connector C109, and C110.
3. Check continuity between IPDM E/R harness connector E121 and license plate lamp harness connector C109, and C110.

| License plate lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | C109 | 1 | E121 | 28 | Yes |
| LH | C110 | | | | |

Is the inspection result normal?

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

### 3.CHECK LICENSE PLATE LAMP GROUND CIRCUIT

Check continuity between license plate lamp harness connector C109, C110, and ground.

| License plate lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | C109 | 2 | | Yes |
| LH | C110 | | | |

Is the inspection result normal?

YES >> Check corresponding bulb socket and harness. Repair or replace if necessary.
NO >> Repair or replace the harness or connector.

# FRONT FOG LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388754

### 1.CHECK FRONT FOG LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While 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 inspection result normal?

YES >> Front fog lamp circuit is normal.
NO >> Refer to EXL-111, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388755

Regarding Wiring Diagram information, refer to EXL-53, "Wiring Diagram".

### 1.CHECK FRONT FOG LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Front fog lamp | IPDM E/R | 35 | 15A |

Is the inspection result normal?

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

### 2.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect front fog lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check the voltage between Front fog lamp harness connector E101, E102, and ground.

| (+) | | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front fog lamp assembly | | | | | | |
| Connector | | Terminal | | | | |
| RH | E102 | 1 | Ground | EXTERNAL LAMPS | Fog | Battery voltage |
| LH | E101 | | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

### 3.CHECK FRONT FOG LAMP POWER SUPPLY CIRCUIT (SHORT)

1. Disconnect applicable front fog lamp connector and IPDM E/R connector E119.
2. Check continuity between IPDM E/R harness connector E119 and ground.

| IPDM E/R | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E119 | 9 | | No |
| | 12 | | |

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness.

## 4. CHECK FRONT FOG LAMP POWER SUPPLY CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E119.
3. Check continuity between IPDM E/R harness connector E119 and front fog lamp harness connector E101, and E102.

| Front fog lamp assembly | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E102 | 1 | E119 | 12 | Yes |
| LH | E101 | | | 9 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace harness.

## 5. CHECK FRONT FOG LAMP GROUND CIRCUIT

Check continuity between front fog lamp harness connector E101, E102, and ground.

| Front fog lamp assembly | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E102 | 2 | | Yes |
| LH | E101 | | | |

Is the inspection result normal?

YES >> Replace bulb. Refer to EXL-137, "Bulb Replacement".
NO >> Repair or replace harness.

# TURN SIGNAL LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388756

### 1.CHECK TURN SIGNAL LAMP

CONSULT
1. Select "FLASHER" in “Active Test” mode of “BCM”.
2. While operating the test items, check that the turn signal lamp blinks.

**LH : Turn signal lamp LH blinking**
**RH : Turn signal lamp RH blinking**
**OFF : The turn signal lamp OFF**

Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.
NO >> Refer to EXL-113, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388757

Regarding Wiring Diagram information, refer to EXL-58, "Wiring Diagram".

### 1.CHECK TURN SIGNAL LAMP BULB

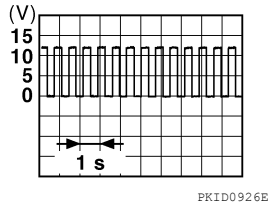
Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

Is the bulb OK?

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

### 2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

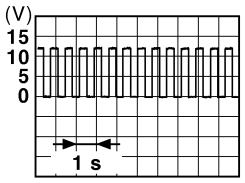
1. Turn ignition switch OFF.
2. Disconnect the front combination lamp connector, door mirror connector and the rear combination lamp connector.
3. Turn ignition switch ON.
4. With turn signal switch operating, check the voltage between the front combination lamp harness connector E63, E64, and ground.

| Front combination lamp | | | (–) | Voltage |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | E64 | 7 | Ground |  |
| RH | E63 | | | |

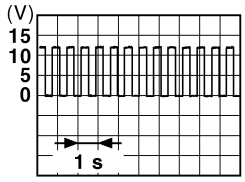

PKID0926E

5. With turn signal switch operating, check the voltage between the door mirror harness connector D4, D107, and ground.

| Door mirror | | (–) | Voltage |
|---|---|---|---|
| Connector | Terminal | | |

| | | | | |
|---|---|---|---|---|
| LH | D4 | 9 | Ground |   |
| RH | D107 | | | |

6. With turn signal switch operating, check the voltage between the rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | (−) | Voltage |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | C13 | 8 | Ground |   |
| RH | C14 | | | |

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

## 3. CHECK TURN SIGNAL LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between the BCM harness connector M80 and the front combination lamp harness connector E63, and E64.

| Front combination lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | E64 | 7 | M80 | 117 | Yes |
| RH | E63 | | | 105 | |

4. Check continuity between the BCM harness connector M80 and the door mirror harness connector D4, and D107.

| Door mirror lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | D4 | 9 | M80 | 117 | Yes |
| RH | D107 | | | 105 | |

5. Check continuity between the BCM harness connector M20 and the rear combination lamp harness connector.

| Rear combination lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | C13 | 8 | M20 | 103 | Yes |
| RH | C14 | | | 92 | |

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair the harness or connector.

## 4. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Check continuity between the front combination lamp harness connector E63, E64, and ground.

| Front combination lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | E64 | 5 | Ground | Yes |
| RH | E63 | | | |

2. Check continuity between the door mirror harness connector D4, D107, and ground.

| Door mirror lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | D4 | 10 | Ground | Yes |
| RH | D107 | | | |

3. Check continuity between the rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | C13 | 1 | Ground | Yes |
| RH | C14 | | | |

Is the inspection result normal?

YES >> Replace the malfunctioning lamp.
NO >> Repair the harness or connector.

# OPTICAL SENSOR

## Component Function Check

INFOID:0000000014388758

### 1.CHECK OPTICAL SENSOR SIGNAL WITH CONSULT

CONSULT
1. Turn ignition switch ON.
2. Select “HEADLAMP” in “Data Monitor” mode of “BCM”.
3. Turn lighting switch to AUTO.
4. With the optical sensor illuminating, check the monitor status.

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

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

Is the inspection result normal?

YES >> Optical sensor is normal.
NO >> Refer to EXL-116, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388759

Regarding Wiring Diagram information, refer to EXL-34, "Wiring Diagram".

### 1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

1. Turn ignition switch ON.
2. Turn lighting switch to AUTO.
3. Check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Optical sensor | | | |
| Connector | Terminal | | |
| M52 | 1 | Ground | 5 V |

Is the inspection result normal?

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

### 2.CHECK OPTICAL SENSOR GROUND INPUT

Check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Optical sensor | | | |
| Connector | Terminal | | |
| M52 | 3 | Ground | 0 V |

Is the inspection result normal?

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

### 3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

While illuminating the optical sensor, check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Condition | | Voltage (Approx.) |
|---|---|---|---|---|---|
| Optical sensor | | | | | |
| Connector | Terminal | | | | |
| M52 | 2 | Ground | Optical sensor | When illuminating | 3.1 V or more * |
| | | | | When shutting off light | 0.6 V or less |

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

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace the optical sensor. Refer to EXL-136, "Removal and Installation".

## 4. CHECK OPTICAL SENSOR (OPEN) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 1 | M18 | 3 | Yes |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the harness or connector.

## 5. CHECK OPTICAL SENSOR (SHORT) CIRCUIT

Check continuity between optical sensor harness connector M52 and ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M52 | 1 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

## 6. CHECK OPTICAL SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector M52 and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 3 | M18 | 17 | Yes |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

## 7. CHECK OPTICAL SENSOR SIGNAL CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector M52 and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 2 | M18 | 4 | Yes |

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the harness or connector.

## 8. CHECK OPTICAL SENSOR CIRCUIT (SHORT)

Check continuity between optical sensor harness connector M52 and ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M52 | 2 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

# HAZARD SWITCH

## Component Function Check

INFOID:0000000014388760

### 1.CHECK HAZARD SWITCH SIGNAL WITH CONSULT

CONSULT
1. Turn ignition switch ON.
2. Select “FLASHER” in “Data Monitor” mode of “BCM”.
3. While operating the hazard switch, check the monitor status.

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

Is the inspection result normal?

YES >> Hazard switch circuit is normal.
NO >> Refer to EXL-119, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388761

Regarding Wiring Diagram information, refer to EXL-58, "Wiring Diagram".

### 1.CHECK HAZARD SWITCH SIGNAL INPUT

1. Turn ignition switch OFF.
2. Disconnect hazard switch connector M47.
3. Check voltage between hazard switch harness connector M47 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Hazard switch | | | |
| Connector | Terminal | | |
| M47 | 2 | Ground | Battery voltage |

Is the inspection result normal?

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

### 2.CHECK HAZARD SWITCH SIGNAL CIRCUIT (OPEN)

1. Disconnect BCM connector B18.
2. Check continuity between hazard switch harness connector M47 and BCM harness connector M18.

| Hazard switch | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M47 | 2 | M18 | 36 | Yes |

Is the inspection result normal?

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

### 3.CHECK HAZARD SWITCH SIGNAL CIRCUIT (SHORT)

Check continuity between hazard switch harness connector M47 and ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M47 | 2 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

## 4. CHECK HAZARD SWITCH GROUND CIRCUIT

Check continuity between hazard switch harness connector M47 and ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M47 | 3 | | Yes |

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-140, "Removal and Installation".
NO >> Repair or replace the harness or connector.

# SYMPTOM DIAGNOSIS

## EXTERIOR LIGHTING SYSTEM SYMPTOMS

### Symptom Table

INFOID:0000000014388762

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

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Headlamp (HI) is not turned ON. | One side | • Fuse<br>• Halogen bulb (HI)<br>• Harness between IPDM E/R and headlamp (HI)<br>• Harness between headlamp (HI) and ground<br>• IPDM E/R | Headlamp (HI) circuit<br>Refer to EXL-97, "Component Function Check". |
| | | • Harness between IPDM E/R and daytime running light relay<br>• Daytime running light relay<br>• IPDM E/R | Daytime running light relay circuit<br>Refer to EXL-101, "Component Function Check". |
| | Both sides | **Symptom diagnosis**<br>"BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON"<br>Refer to EXL-125, "Diagnosis Procedure". | |
| High beam indicator lamp is not turned ON. [Headlamp (HI) is turned ON.] | | Combination meter | • Combination meter<br>"Data Monitor" "HI-BEAM IND"<br>• BCM (HEAD LAMP)<br>"Active Test" "HEADLAMP" |
| Headlamp (LO) is not turned ON. | One side | • Fuse<br>• Halogen bulb (LO)<br>• Harness between IPDM E/R and headlamp lamp (LO)<br>• Harness between headlamp (LO) and ground<br>• IPDM E/R | Headlamp (LO) circuit<br>Refer to EXL-99, "Component Function Check". |
| | Both sides | **Symptom diagnosis**<br>"BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON"<br>Refer to EXL-126, "Diagnosis Procedure". | |
| Each lamp is not turned ON/OFF with lighting switch AUTO. | | • Combination switch<br>• Harness between combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-77, "Symptom Table". |
| | | • Optical sensor<br>• Harness between optical sensor and BCM<br>• BCM | Optical sensor<br>Refer to EXL-116, "Component Function Check". |
| Daytime running light is not turned ON. [Headlamp (HI) is turned ON.] | | • Fuse<br>• Harness between IPDM E/R and daytime running light relay<br>• Daytime running light relay<br>• IPDM E/R<br>• BCM<br>• ECM<br>• Combination meter | • Daytime running light relay circuit<br>Refer to EXL-101, "Component Function Check".<br>• BCM (HEADLAMP)<br>"Data Monitor""ENGINE STATE"<br>• Combination meter<br>"Data Monitor" "PKB SW"<br>• BCM (HEADLAMP)<br>"Active Test" "DAYTIME RUNNING LIGHT" |

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Parking lamp is not turned ON. | | • Fuse<br>• Parking lamp LED<br>• Harness between IPDM E/R and front combination lamp<br>• IPDM E/R | Parking lamp circuit<br>Refer to EXL-103, "Component Function Check". |
| Front side marker lamp is not turned ON. | | • Front side marker lamp bulb<br>• Harness between IPDM E/R and front side marker lamp<br>• Harness between front side marker lamp and ground<br>• IPDM E/R | Front side marker lamp circuit<br>Refer to EXL-105, "Component Function Check". |
| Tail lamp (Rear side marker lamp) is not turned ON. | | • Fuse<br>• Tail lamp LED<br>• Harness between IPDM E/R and rear combination lamp<br>• Harness between and rear combination lamp and ground | Tail lamp circuit<br>Refer to EXL-107, "Component Function Check". |
| License plate lamp is not turned ON. | | • License plate lamp bulb<br>• Harness between IPDM E/R and license plate lamp<br>• Harness between license plate lamp and ground | License plate lamp circuit<br>Refer to EXL-109, "Component Function Check". |
| Parking lamp, side marker lamp, tail lamp and license plate lamp are not turned ON. | | **Symptom diagnosis**<br>"PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON"<br>Refer to EXL-127, "Diagnosis Procedure". | |
| Tail lamp indicator is not turned ON.<br>(Exterior lamps are turned ON.) | | Combination meter | • Combination meter<br>"Data Monitor" "LIGHT IND"<br>• BCM (HEADLAMP)<br>"Active Test" "TAIL LAMP" |
| Turn signal lamp does not blink. | Indicator lamp is normal.<br>(Applicable side performs high flasher activation.) | • Turn signal lamp bulb<br>• Door mirror<br>• Harness between BCM and each turn signal lamp<br>• Harness between each turn signal lamp and ground | Turn signal lamp circuit<br>Refer to EXL-113, "Component Function Check". |
| | Indicator lamp is included. | • Combination switch<br>• Harness between combination switch and BCM<br>• BCM | Combination switch<br>Refer to BCS-77, "Symptom Table". |
| Turn signal indicator lamp does not blink.<br>(Turn signal lamp is normal.) | One side | Combination meter | — |
| | Both sides<br>(Always) | • Turn signal indicator lamp signal<br>• BCM<br>• Combination meter | • Combination meter<br>"Data Monitor" "TURN IND"<br>• BCM (FLASHER)<br>"Active Test" "FLASHER" |
| | Both sides<br>(Only when activating hazard warning lamp with ignition switch OFF) | • Combination meter power supply and ground circuit<br>• Combination meter | Combination meter<br>Power supply and ground circuit<br>Refer to MWI-87, "COMBINATION METER : Diagnosis Procedure" (type A) or MWI-168, "COMBINATION METER : Diagnosis Procedure" (type B). |
| • Hazard warning lamp does not activate.<br>• Hazard warning lamp continues activating.<br>(Turn signal is normal.) | | • Hazard switch<br>• Harness between hazard switch and BCM<br>• Harness between hazard switch and ground<br>• BCM | Hazard switch circuit<br>Refer to EXL-119, "Component Function Check". |

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Front fog lamp is not turned ON. | One side | • Front fog lamp bulb<br>• Harness between IPDM E/R and front fog lamp<br>• Harness between front fog lamp and ground<br>• IPDM E/R | Front fog lamp circuit<br>Refer to EXL-111, "Component Function Check". |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON”<br>Refer to EXL-128, "Diagnosis Procedure". | |

# NORMAL OPERATING CONDITION

## Description

INFOID:0000000014388763

### AUTO LIGHT SYSTEM

The auto light system may not turn the headlamp ON/OFF immediately after passing a dark area or a bright area (short tunnel, sky bridge, shadowed area etc.). This is normal.

# BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

## Description

INFOID:0000000014388764

The headlamps (both sides) do not switch to high beam when the combination switch (lighting and turn signal switch) is in the HI or PASS setting.

## Diagnosis Procedure

INFOID:0000000014388765

### 1.COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) INSPECTION

Check the combination switch (lighting and turn signal switch). Refer to BCS-77, "Symptom Table".

Is the combination switch (lighting and turn signal switch) normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

WITH CONSULT

1. Select “HL HI REQ” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the combination switch (lighting and turn signal switch), check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL HI REQ | Combination switch (lighting and turn signal switch) | HI or PASS | ON |
| | | Except for HI or PASS | OFF |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

### 3.HEADLAMP (HI) CIRCUIT INSPECTION

Check the headlamp (HI) circuit. Refer to EXL-97, "Diagnosis Procedure".

Is the headlamp (HI) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the malfunctioning part.

# BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

## Description

INFOID:0000000014388766

The headlamps (both sides) do not turn ON in any lighting switch setting.

## Diagnosis Procedure

INFOID:0000000014388767

### 1.LIGHTING SWITCH INSPECTION

Check the lighting switch. Refer to BCS-77, "Symptom Table".

Is the lighting switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

WITH CONSULT

1. Select “HL LO REQ” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL LO REQ | Lighting switch | 2ND | ON |
| | | OFF | OFF |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

### 3.HEADLAMP (LO) CIRCUIT INSPECTION

Check the headlamp (LO) circuit. Refer to EXL-99, "Diagnosis Procedure".

Is the headlamp (LO) circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the malfunctioning part.

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

## Description

INFOID:0000000014388768

The parking, license plate side marker and tail lamps do not turn ON in any lighting switch position.

## Diagnosis Procedure

INFOID:0000000014388769

### 1.LIGHTING SWITCH INSPECTION

Check the lighting switch. Refer to BCS-77, "Symptom Table".

Is the lighting switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK TAIL LAMP RELAY REQUEST SIGNAL INPUT

WITH CONSULT
1. Select “TAIL & CLR REQ” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| TAIL & CLR REQ | Lighting switch | 1ST | ON |
| | | OFF | OFF |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

### 3.PARK LAMP CIRCUIT INSPECTION

Check the parking lamp circuit. Refer to EXL-103, "Diagnosis Procedure".

Is the tail lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the malfunctioning part.

# BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

## Description

INFOID:0000000014388770

The front fog lamps do not turn ON with front fog lamp switch depressed.

## Diagnosis Procedure

INFOID:0000000014388771

### 1.FRONT FOG LAMP SWITCH INSPECTION

Check the front fog lamp switch. Refer to EXL-111, "Diagnosis Procedure".

Is the front fog lamp switch normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

WITH CONSULT

1. Select “FR FOG REQ” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the front fog lamp switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| FR FOG REQ | Front fog lamp switch | ON | ON |
| | | OFF | OFF |

Is the item status normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

### 3.FRONT FOG LAMP CIRCUIT INSPECTION

Check the front fog lamp circuit. Refer to EXL-111, "Diagnosis Procedure".

Is the front fog lamp circuit normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the malfunctioning part.

# PERIODIC MAINTENANCE

## ADJUSTMENT AND INSPECTION

## HEADLAMP

### HEADLAMP : Inspection

INFOID:0000000014388772

#### PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from headlamp lens.

**CAUTION:**

**Do not use organic solvent (thinner, gasoline etc.).**

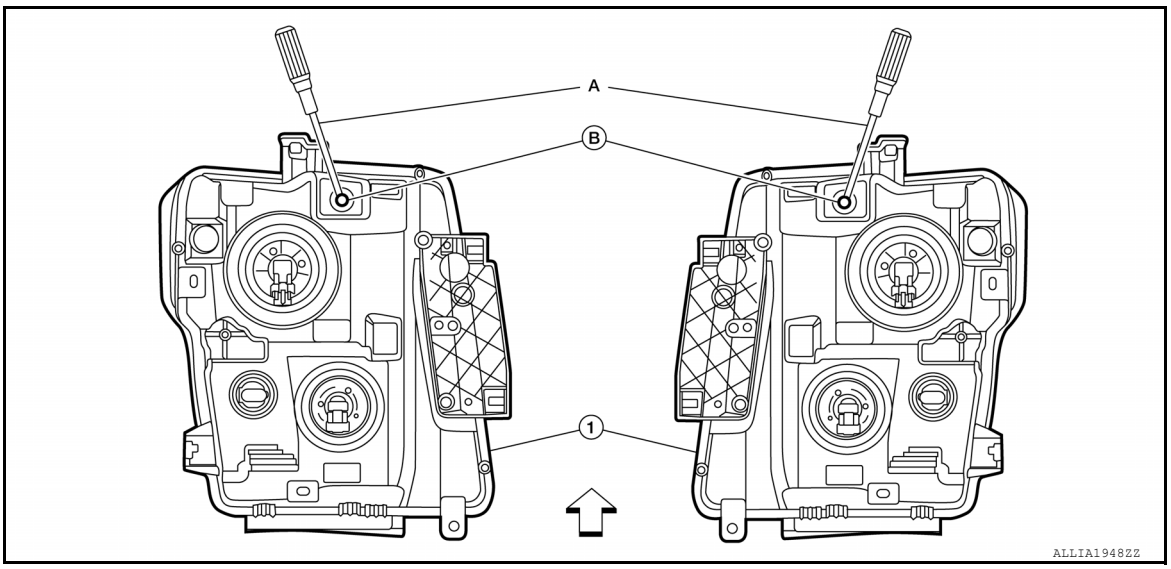
- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight-ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

**NOTE:**

- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- Perform headlamp aiming if:

- The vehicle front body has been repaired.
- The front combination lamp has been removed or replaced.
- Any outfitting has been installed.
- The vehicle's standard load condition has been substantially increased.

#### AIMING ADJUSTMENT SCREW

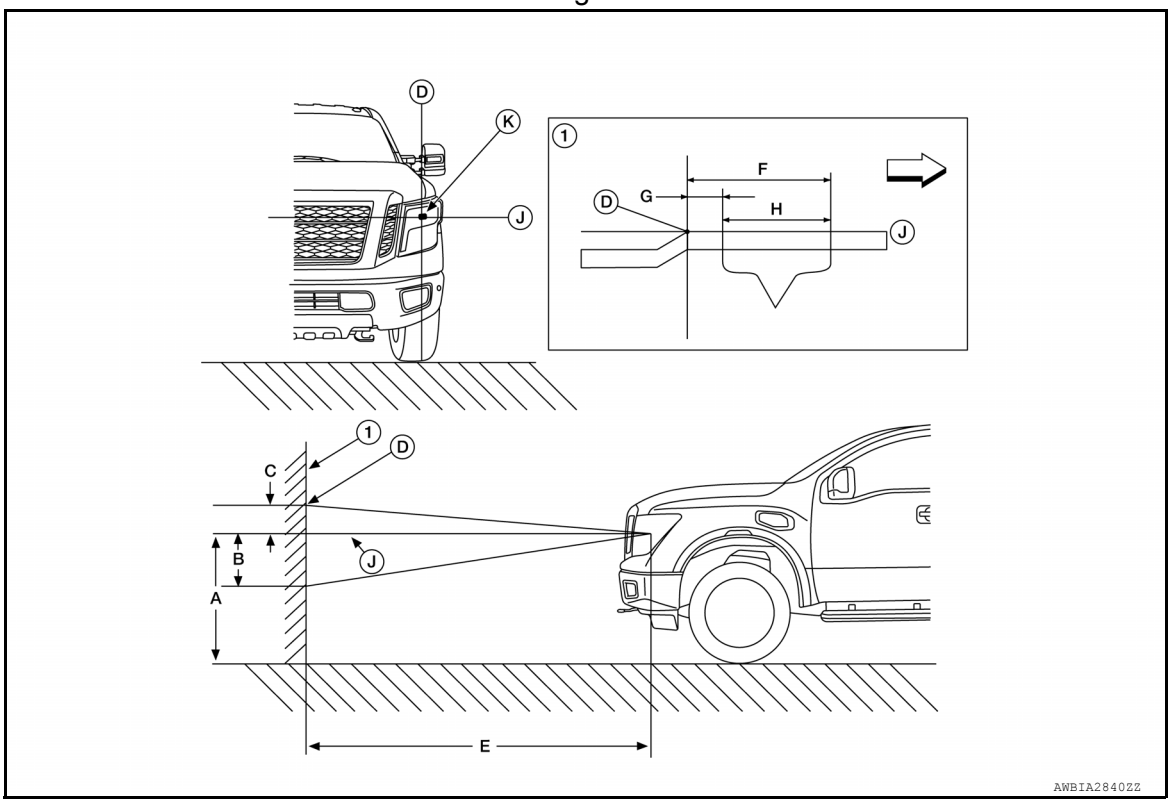



1. Front combination lamp
A. Suitable tool
B. Adjusting screw
⇦ Front

# HEADLAMP : Aiming Adjustment Procedure

INFOID:0000000014638162

Aiming Chart




| | | | | | |
|---|---|---|---|---|---|
| 1. | Adjustment screen | A. | Distance of horizontal aiming evaluation line from ground | B. | Minimum cutoff line height |
| C. | Maximum cutoff line height | D. | Vertical aiming evaluation line | E. | 7.6 m (25 ft) |
| F. | Maximum aim evaluation distance from vertical center on aiming screen 399 mm (15.7 in) [3°R] | G. | Minimum aim evaluation distance from vertical center on aiming screen 133 mm (5.2 in) [1°R] | H. | Aim evaluation area |
| J. | Horizontal aiming evaluation line | K. | Center of headlamp bulb | ⇨ | Right |

| | | |
|---|---|---|
| **B (Minimum cutoff line height)** | **53.2 mm (2.1 in)** | **0.4° down** |
| **C (Maximum cutoff line height)** | **13.2 mm (0.5 in)** | **0.1° up** |

LOW BEAM AND HIGH BEAM

**NOTE:**

- Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.

1. Use adjustment screw to perform aiming adjustment.
   - **Ensure fog lamps are turned off.**
2. Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.
   **CAUTION:**
   **Do not cover the lens surface with tape, etc.**
3. Place the screen on the same level and flat surface as the vehicle.
   **NOTE:**
   Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.
4. Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.

**Distance between the headlamp center and the screen (E) : 7.6 m (25 ft)**

5. Start the engine. Turn the headlamp on.
6. Determine the preferred vertical aim range dimensions, using the aiming chart.
7. Measure the projected beam within the aim evaluation segment on the screen.
8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

# FRONT FOG LAMP

## FRONT FOG LAMP : Aiming Adjustment

INFOID:0000000014388774

### PREPARATION BEFORE ADJUSTING

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb. Before performing aiming adjustment procedure, check the following:

- Ensure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Ensure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from headlamp lens.

**CAUTION:**

**Do not use organic solvent (thinner, gasoline etc.).**

- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight-ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

**NOTE:**

- For fog lamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- Perform fog lamp aiming if:

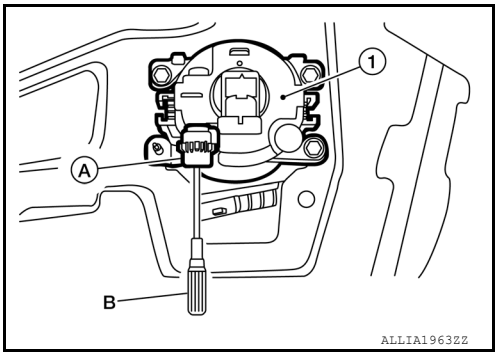
- The vehicle front body has been repaired.
- The front fog lamp has been removed or replaced.
- Any outfitting has been installed.
- The vehicle’s standard load condition has been substantially increased.

### 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 at the screen. Maintain 7.62 m (25.00 ft) between the front fog lamp center and the screen.
3. Start the engine. Turn the front fog lamp ON.
   **NOTE:**
   Block the headlamp light with the board to prevent from illuminating the adjustment screen.
   **CAUTION:**
   **Do not cover the lens surface with a tape etc. The lens is made of resin.**

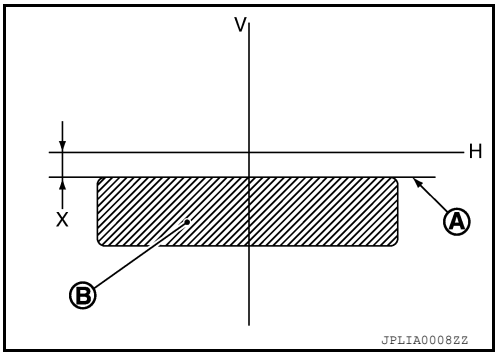
4. Adjust aiming by turning the adjusting screw (A) with suitable tool (B).
**NOTE:**
LH shown, RH similar

| | |
|---|---|
| 1. | Front fog lamp assembly |




5. Adjust the cutoff line height (X) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and cutoff line (A) becomes 100 mm (4 in).

(A) : Cutoff line
(B) : High illuminance area
(H) : Horizontal center line of front fog lamp
(V) : Vertical center line of front fog lamp
(X) : Cutoff line height

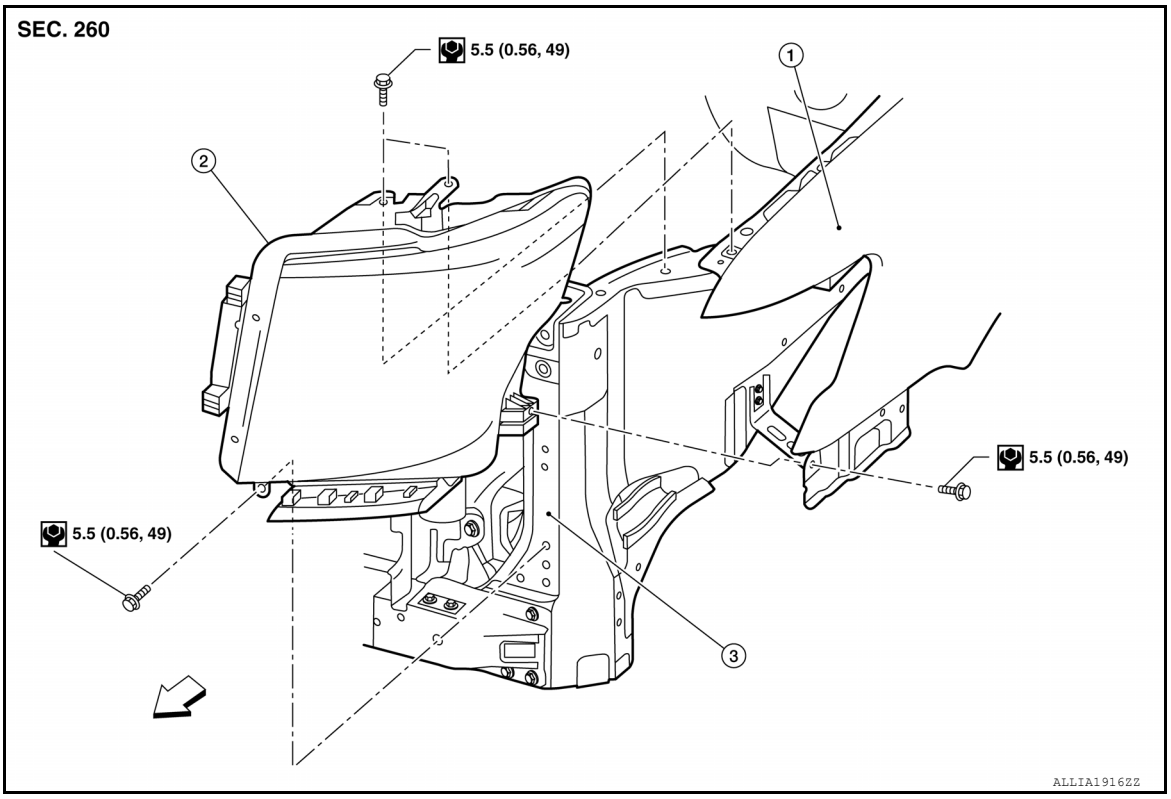


# REMOVAL AND INSTALLATION

## FRONT COMBINATION LAMP

### Exploded View

INFOID:0000000014388775




1. Front fender
2. Front combination lamp
3. Radiator core support

⇦ Front

**NOTE:**
- LH shown, RH similar.
- XD Model shown, Non-XD Model similar.

### Removal and Installation

INFOID:0000000014388776

#### FRONT COMBINATION LAMP

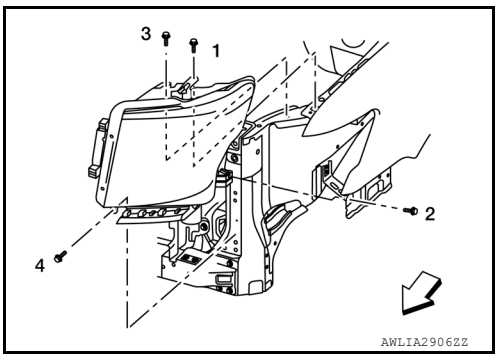
REMOVAL

1. Partially remove fender protector. Refer to EXT-41, "Removal and Installation - Front Fender Protector".
2. Partially remove front over fender. Refer to EXT-43, "FRONT OVER FENDER : Exploded View".
3. Remove front grille. Refer to EXT-32, "Removal and Installation".
4. Disconnect front camera. Refer to AV-361, "Removal and Installation".
5. Remove upper fascia. Refer to EXT-26, "Removal and Installation - Bumper Fascia Upper".
6. Remove bolts, disconnect the harness connector from the front combination lamp and remove.

INSTALLATION

1. Install bolts in the following torque sequence: (1) bump/hand start, (2), (3), (4), (1) full run down.

⇦ : Front




Remainder of installation is in the reverse order of removal.

**CAUTION:**

**Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit. Refer to AV-332, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure".**

**NOTE:**

After installation perform headlamp aiming adjustment. Refer to EXL-288, "HEADLAMP : Aiming Adjustment Procedure".

## Bulb Replacement

INFOID:0000000014388777

**CAUTION:**

- **Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.**
- **Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.**

### HEADLAMP - LOW/HIGH BEAM

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove front combination lamp. Refer to EXL-133, "Removal and Installation".
2. Turn headlamp bulb counterclockwise and remove bulb.

INSTALLATION

Installation is in the reverse order of removal.

### FRONT TURN SIGNAL

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove the front combination lamp. Refer to EXL-133, "Removal and Installation".
2. Turn the bulb socket counterclockwise.
3. Pull the bulb to remove it from the socket.

INSTALLATION

Installation is in the reverse order of removal.

### FRONT SIDE MARKER LAMP

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove the front combination lamp. Refer to EXL-133, "Removal and Installation".
2. Turn the bulb socket counterclockwise.
3. Pull to remove side marker bulb from the side marker bulb socket.

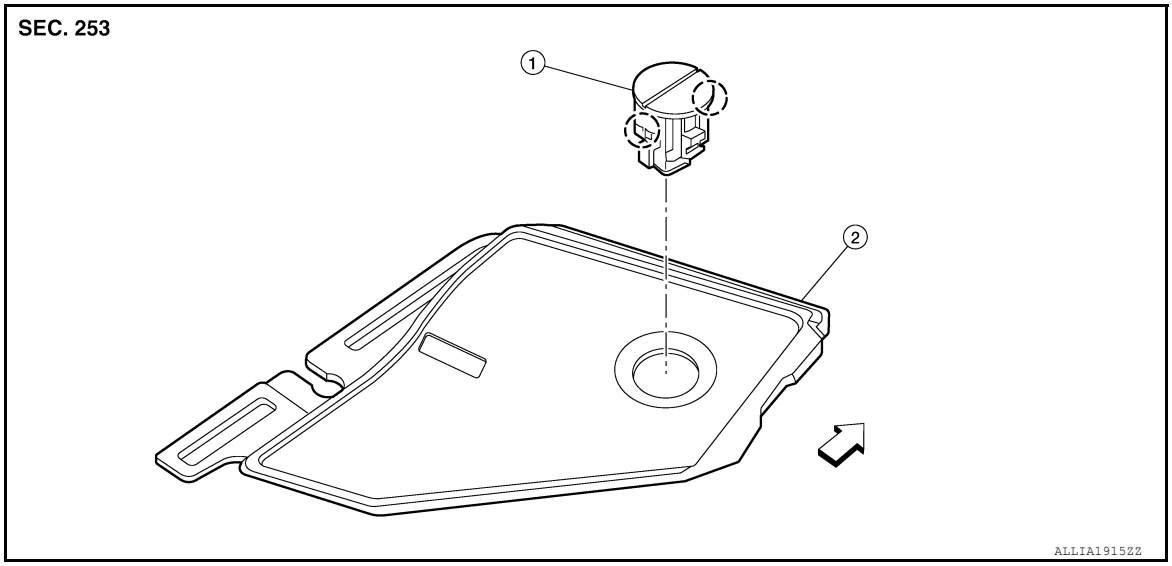
INSTALLATION

Installation is in the reverse order of removal.

# OPTICAL SENSOR

## Exploded View

INFOID:0000000014388778




1. Optical sensor
2. Instrument panel tweeter grille
Pawl
Front

## Removal and Installation

INFOID:0000000014388779

### REMOVAL

1. Using suitable tool, release pawls and pull up on optical sensor.
2. Disconnect the harness connector from the optical sensor and remove.

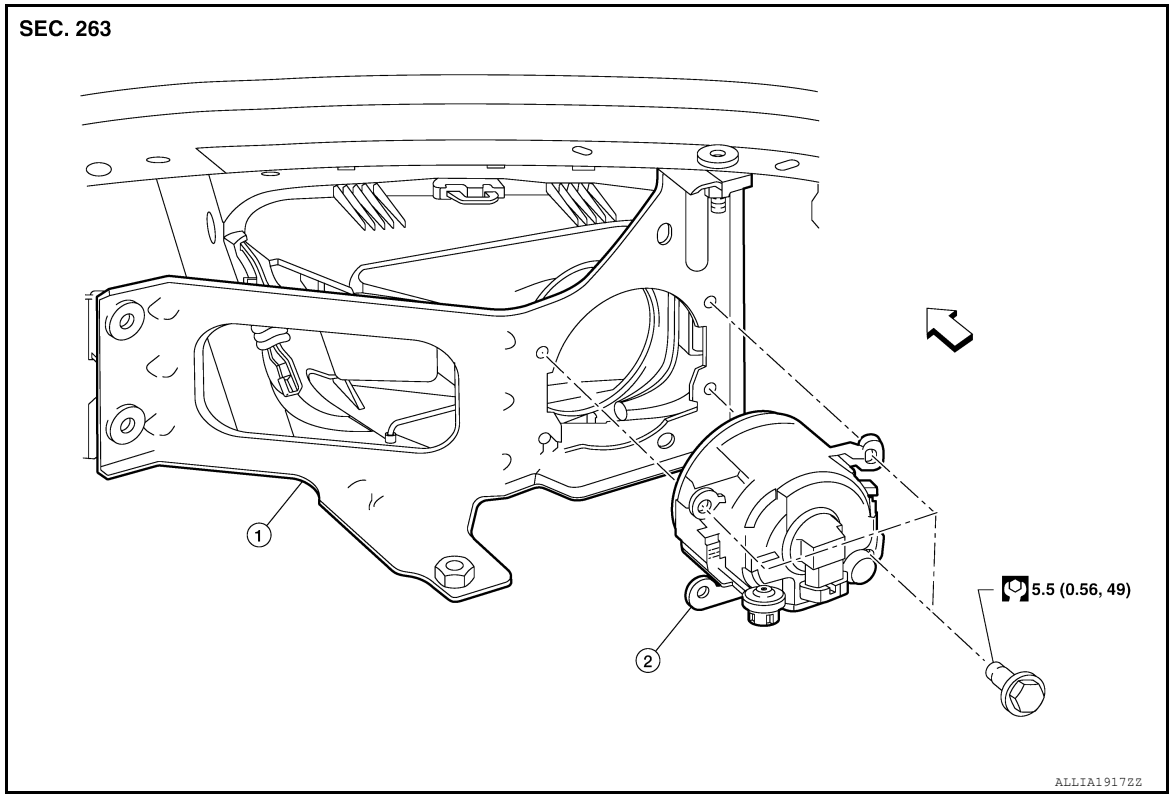
### INSTALLATION

Installation is in the reverse order of removal.

# FRONT FOG LAMP

## Exploded View

INFOID:0000000014388780




1. Front bumper stay
2. Front fog lamp
⇦ Front

**NOTE:**
RH shown, LH similar

## Removal and Installation

INFOID:0000000014388781

### FRONT FOG LAMP

REMOVAL

1. Disconnect the harness connector from the front fog lamp.
2. Partially remove fender protector. Refer to EXT-41, "Exploded View - Front Fender Protector"
3. Remove bolts and front fog lamp.

INSTALLATION
Installation is in the reverse order of removal.
**NOTE:**
After installation perform front fog lamp aiming adjustment. Refer to EXL-131, "FRONT FOG LAMP : Aiming Adjustment".

## Bulb Replacement

INFOID:0000000014388782

### FRONT FOG LAMP

REMOVAL

**WARNING:**
**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**

- **Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.**
- **Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.**

1. Disconnect the harness connector from the front fog lamp.
2. Rotate front fog lamp socket counterclockwise and remove.

INSTALLATION

Installation is in the reverse order of removal.

# COMBINATION SWITCH

## Removal and Installation

INFOID:0000000014388783

### REMOVAL

**CAUTION:**

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**
- **Do not use air tools or electric tools for servicing.**

**NOTE:**

Shown with steering wheel removed for clarity only.

1. Disconnect the battery or batteries. Refer to PG-185, "Battery Disconnect".
2. Remove the steering column covers. Refer to IP-18, "Removal and Installation".
3. Remove the combination switch bolts.
4. Disconnect the harness connector from the combination switch.
5. Remove the combination switch.

| | |
|---|---|
| **Combination switch bolts** | **:3.5 Nm (0.36 kg-m, 31 in-lb)** |

### INSTALLATION

Installation is in the reverse order of removal.

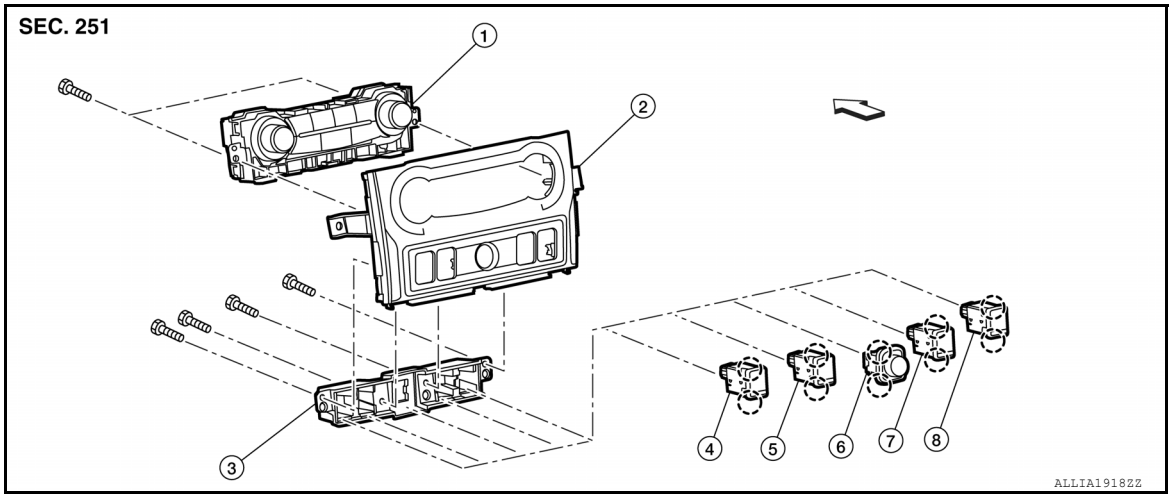
**CAUTION:**

- **After the work is completed, make sure no system malfunction is detected by air bag warning lamp.**
- **In case a malfunction is detected by the air bag warning system lamp, reset with the self-diagnosis function and delete the memory with CONSULT GI-55, "Function and System Application".**
- **If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to SRC-143, "Diagnosis Procedure".**

# HAZARD SWITCH

## Exploded View

INFOID:0000000014388784




| | | | | | |
|---|---|---|---|---|---|
| 1. | A/C switch assembly | 2. | Cluster lid C | 3. | Switch carrier |
| 4. | VDC OFF switch | 5. | Sonar system off switch (if equipped) | 6. | Hazard switch |
| 7. | Blind spot warning switch (if equipped) | 8. | Heated steering wheel switch (if equipped) | ⇦ | Front |

## Removal and Installation

INFOID:0000000014388785

### REMOVAL

1. Remove cluster lid C. Refer to IP-20, "Removal and Installation".
2. Remove screws from switch carrier.
3. Remove switch carrier from cluster lid C.
4. Release pawls and disconnect the harness connector from the hazard switch.
5. Remove hazard switch.

### INSTALLATION

Installation is in the reverse order of removal.

# LIGHTING SWITCH

## Removal and Installation

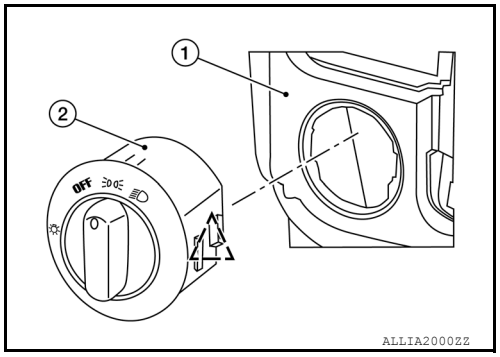
INFOID:0000000014388786

### REMOVAL

1. Remove cluster lid A, refer to IP-19, "Removal and Installation".
2. Using a suitable tool, release clip.

(1) : Cluster lid A
: Clip

3. Disconnect the harness connector from the lighting switch (2) and remove.



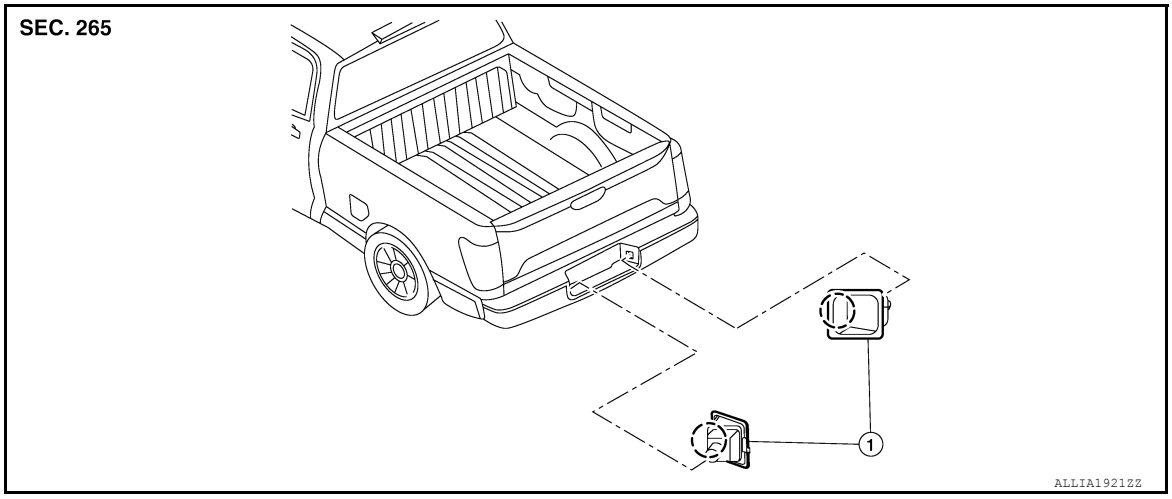

### INSTALLATION

Installation is in the reverse order of removal.

# LICENSE PLATE LAMP

## Exploded View

INFOID:0000000014388787




1. License plate lamp
Pawl

## Removal and Installation

INFOID:0000000014388788

### LICENSE PLATE LAMP

REMOVAL

1. Disconnect the harness connector from the license plate lamp.
2. Using a suitable tool, release pawl and remove license plate lamp.

INSTALLATION

Installation is in the reverse order of removal.

## Bulb Replacement

INFOID:0000000014388789

### LICENSE PLATE LAMP BULB

The license plate lamp bulb is LED and not serviced separately. Refer to EXL-142, "Removal and Installation".

# DOOR MIRROR TURN SIGNAL LAMP

## Removal and Installation

INFOID:0000000014388790

### REMOVAL and INSTALLATION

The door mirror turn signal lamp is serviced as part of the door mirror. Refer to MIR-31, "Removal and Installation".

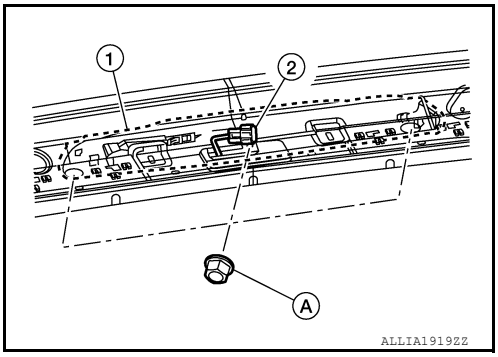
# HIGH-MOUNTED STOP LAMP

## Removal and Installation

INFOID:0000000014388791

### REMOVAL

1. Remove headlining. Refer to INT-32, "Removal and Installation".
2. Disconnect the harness connector (2) from the high-mounted stop lamp (1).
3. Remove high-mounted stop lamp nuts (A).




4. Pull the high-mounted stop lamp toward rear of the vehicle to remove.

### INSTALLATION

Installation is in the reverse order of removal.

## Bulb Replacement

INFOID:0000000014388792

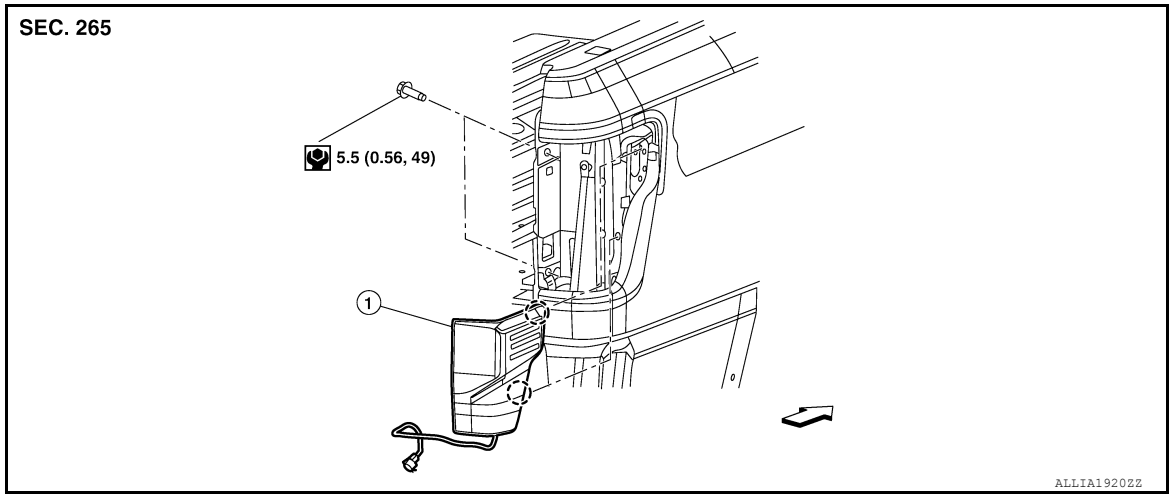
### HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is LED and not serviced separately. Refer to EXL-144, "Removal and Installation".

# REAR COMBINATION LAMP

## Exploded View

INFOID:0000000014388793




1. Rear combination lamp
Pawl
Front

**NOTE:**
RH shown, LH similar.

## Removal and Installation

INFOID:0000000014388794

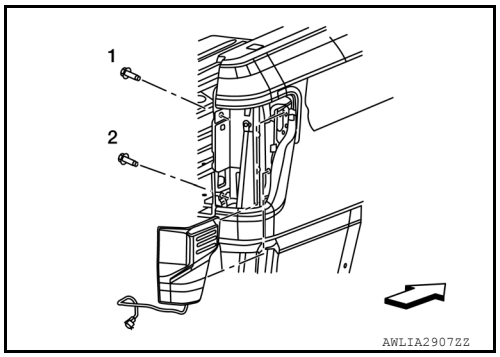
### REMOVAL

1. Remove rear combination lamp bolts.
2. Disconnect the harness connector from the rear combination lamp and remove.

### INSTALLATION

1. Connect the harness connector to the rear combination lamp.
2. Install bolts in the following torque sequence: (1), (2).

: Front




## Bulb Replacement

INFOID:0000000014388795

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **After installing bulb, install bulb socket securely for watertightness.**

### STOP LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-145, "Removal and Installation".
2. Rotate stop lamp bulb socket counterclockwise and remove.
3. Remove stop lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## BACKUP LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-145, "Removal and Installation".
2. Rotate backup lamp bulb socket counterclockwise and remove.
3. Remove backup lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## TURN SIGNAL/ TAIL LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-145, "Removal and Installation".
2. Rotate turn signal/ tail lamp bulb socket counterclockwise and remove.
3. Remove turn signal/ tail lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## TAILGATE CARGO LAMP BULB (if equipped)

REMOVAL

1. Remove rear combination lamp. Refer to EXL-145, "Removal and Installation".
2. Rotate tailgate cargo lamp bulb socket counterclockwise and remove.
3. Remove tailgate cargo lamp bulb from bulb socket.

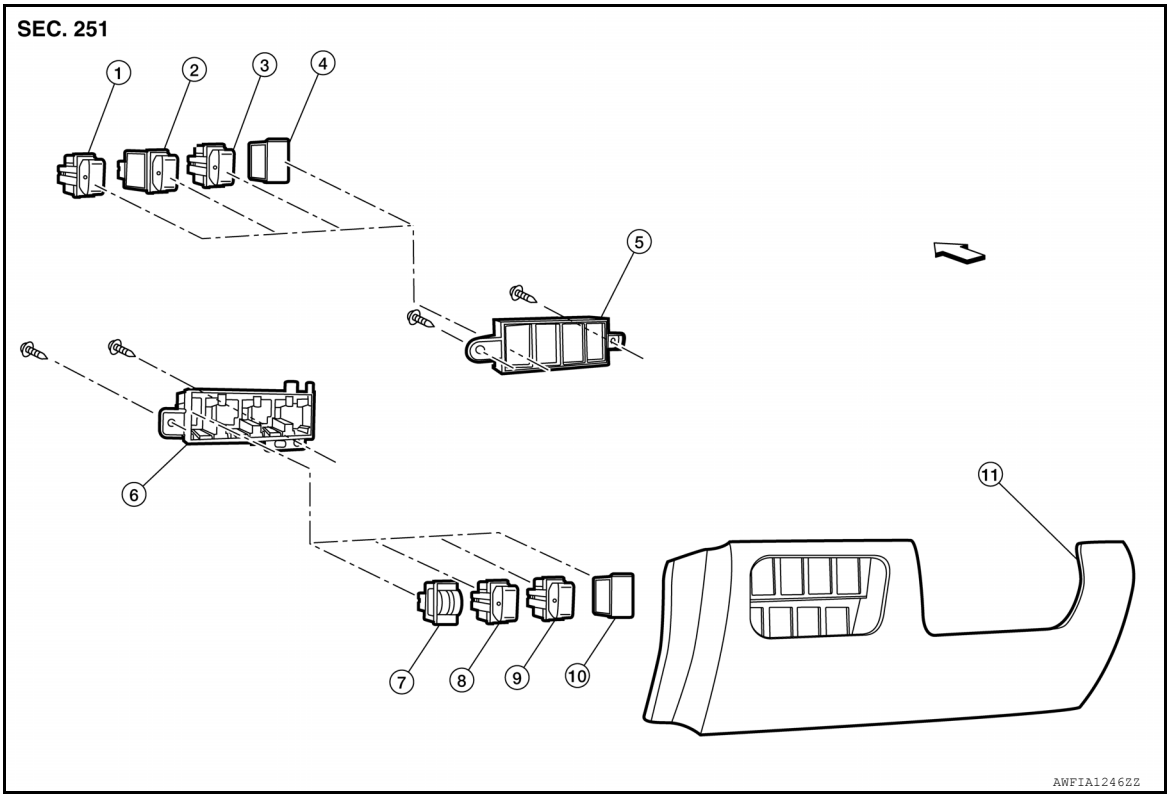
INSTALLATION

Installation is in the reverse order of removal.

# FRONT FOG LAMP SWITCH

## Exploded View

INFOID:0000000014388796




| | | | | | |
|---|---|---|---|---|---|
| 1. | Front fog lamp switch | 2. | AC 120v outlet main switch (if equipped) | 3. | Cargo lamp switch |
| 4. | Mask | 5. | Upper switch carrier | 6. | Lower switch carrier |
| 7. | Headlamp aiming switch (if equipped) | 8. | Differential lock mode switch (if equipped) | 9. | Hill descent control switch (if equipped) |
| 10. | Mask | 11. | Instrument lower panel LH | ⇦ | Front |

## Removal and Installation

INFOID:0000000014388797

### REMOVAL

1. Remove instrument lower panel LH, refer to IP-22, "Removal and Installation".
2. Remove screws from upper switch carrier.
3. Remove upper switch carrier from instrument lower panel LH.
4. Using a suitable tool, release pawls and remove front fog lamp switch.

### INSTALLATION

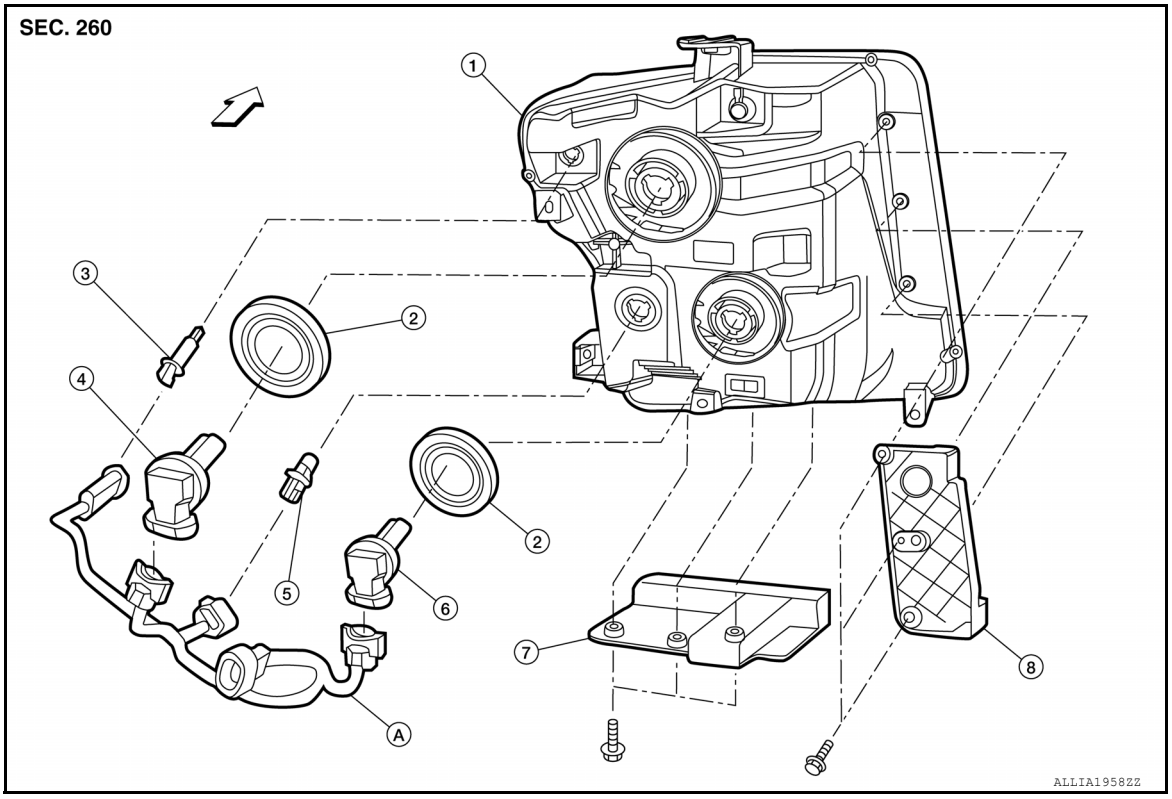
Installation is in the reverse order of removal.

# UNIT DISASSEMBLY AND ASSEMBLY

## FRONT COMBINATION LAMP

### Exploded View

INFOID:0000000014388798




1. Front combination lamp
2. Grommet
3. Side marker bulb
4. Low beam lamp bulb
5. Turn signal lamp bulb
6. High beam lamp bulb
7. Fascia bracket
8. Grille bracket
A. Harness connector

⇦ Front

**NOTE:**
LH shown, RH similar.

### Disassembly and Assembly

INFOID:0000000014388799

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **During assembly, be sure to install bulb sockets securely to ensure watertightness.**

#### DISASSEMBLY

1. Remove front combination lamp. Refer to EXL-133, "Removal and Installation".
2. Rotate headlamp (low beam) bulb counterclockwise and remove.
3. Disconnect the harness connector from the headlamp (low beam) bulb.
4. Rotate headlamp (high beam) bulb counterclockwise and remove.
5. Disconnect the harness connector from the headlamp (high beam) bulb.
6. Rotate side marker lamp bulb socket counterclockwise and remove.
7. Remove side marker lamp bulb from bulb socket.

8. Rotate turn signal lamp bulb socket counterclockwise and remove.
9. Remove turn signal lamp bulb from bulb socket.

## ASSEMBLY

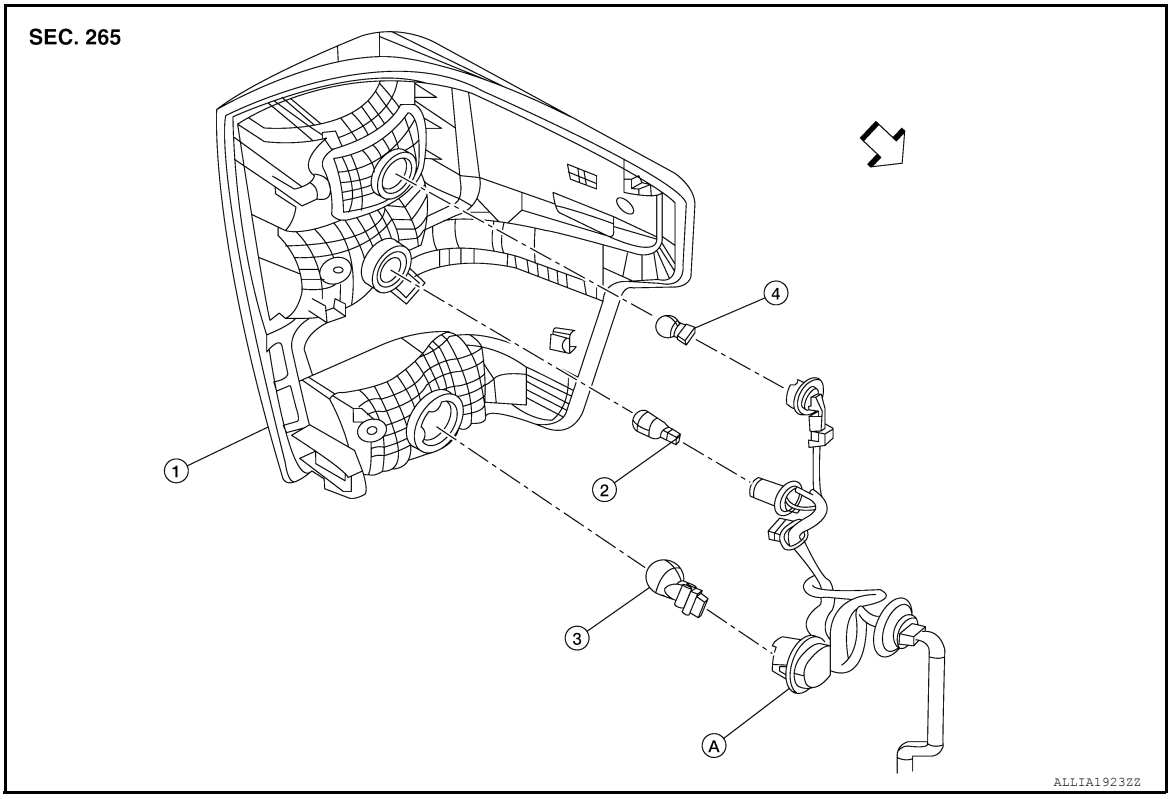
Assembly is in the reverse order of disassembly.

# REAR COMBINATION LAMP

## Exploded View

INFOID:0000000014388800

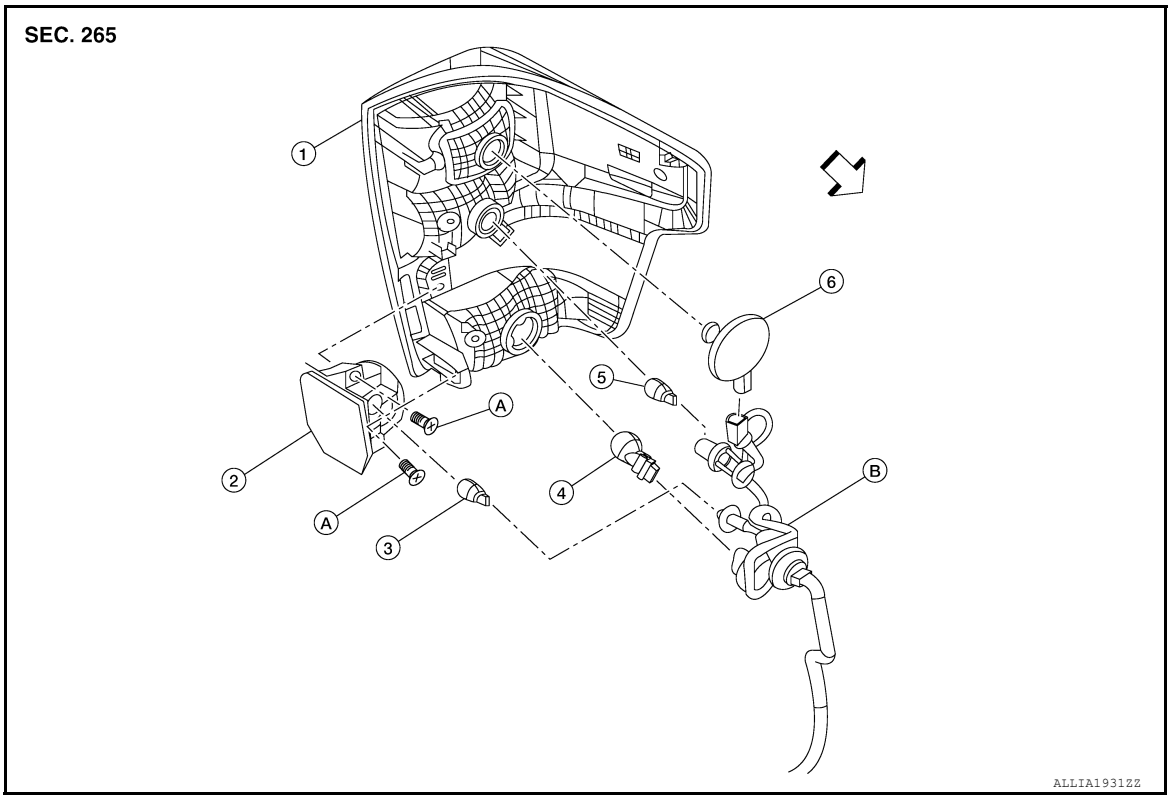
HALOGEN




1. Rear combination lamp
2. Backup lamp bulb
3. Turn signal/ tail lamp bulb
4. Stop lamp bulb
A. Harness connector
⇦ Front

**NOTE:**
LH shown, RH similar.

LED




| | | |
|---|---|---|
| 1. Rear combination lamp | 2. Tailgate cargo lamp (if equipped) | 3. Tailgate cargo lamp bulb (if equipped) |
| 4. Turn signal/ tail lamp bulb | 5. Backup lamp bulb | 6. Stop lamp bulb |
| A. Screw | B. Harness connector | ⇦ Front |

**NOTE:**
LH shown, RH similar.

## Disassembly and Assembly

INFOID:0000000014388801

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **During assembly, be sure to install bulb sockets securely to ensure watertightness.**

### DISASSEMBLY

1. Remove rear combination lamp. Refer to EXL-145, "Removal and Installation".
2. Rotate stop lamp bulb socket counterclockwise and remove.
3. Remove stop lamp bulb from bulb socket.
4. Rotate turn signal/ tail lamp bulb socket counterclockwise and remove.
5. Remove turn signal/ tail lamp bulb from bulb socket.
6. Rotate backup lamp bulb socket counterclockwise and remove.
7. Remove backup lamp bulb from bulb socket.
8. Rotate tailgate cargo lamp bulb socket counterclockwise and remove (if equipped).
9. Remove tailgate cargo lamp bulb from bulb socket (if equipped).

### ASSEMBLY

Assembly is in the reverse order of disassembly.

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### Bulb Specifications

INFOID:0000000014388802

| Item | | Type | Wattage (W) |
|---|---|---|---|
| Front combination lamp | High beam | HB3 | 60 |
| | Low beam | H11 | 55 |
| | Turn signal/ Park lamp | 7444NA | 28/8 |
| | Side marker lamp | W5W | 5 |
| Front fog lamp | | H11 | 55 |
| Front fog lamp (with daytime running lamp) | Fog lamp bulb | H8 | 35 |
| | Daytime running lamp bulb | P13W | 13 |
| Door mirror turn signal lamp | | LED | — |
| Rear combination lamp (except LED) | Stop Lamp | PW16W | 16 |
| | Backup lamp | 921 | 16 |
| | Turn signal/ Tail lamp | 3057K | 27/7 |
| Rear combination lamp (LED) | Stop lamp | L1224R | 3.5 |
| | Backup lamp | 921 | 16 |
| | Turn signal/ Tail lamp | 3057K | 27/7 |
| | Tailgate cargo lamp (if equipped) | 921 | 16 |
| License plate lamp | | LED | — |
| High-mounted stop lamp | | LED | — |

*: Always check with the Parts Department for the latest parts info.

# PRECAUTION

## PRECAUTIONS

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

INFOID:0000000014388803

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

**WARNING:**

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries and wait at least three minutes before performing any service.**

### Precaution for Work

INFOID:0000000014388804

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

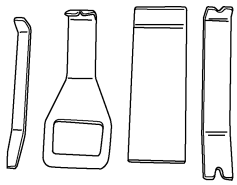
# PREPARATION

## PREPARATION

### Special Service Tool

INFOID:0000000014388805

The actual shape of the tools may differ from those illustrated here.

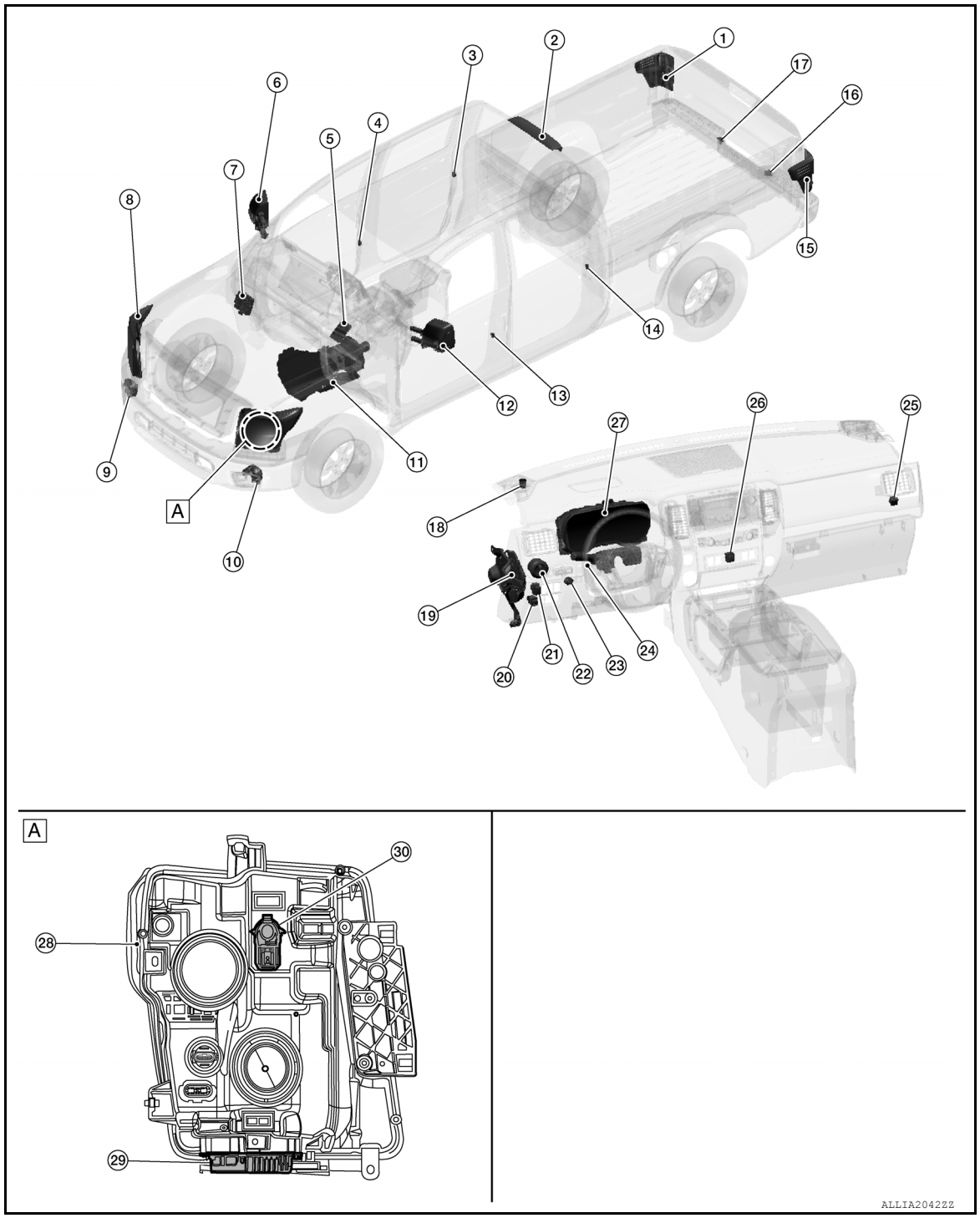
| Tool number<br>(TechMate No.)<br>Tool name | Description |
|---|---|
| —<br>( J-46534 )<br>Trim Tool Set<br>  <br>AWJIA0483ZZ | Removing trim components |

# SYSTEM DESCRIPTION

## COMPONENT PARTS

### Component Parts Location

INFOID:0000000014388806




A. Front combination lamp LH (view with combination lamp removed)

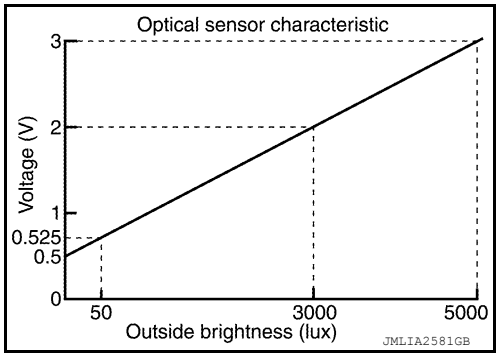
| No. | Part | Function |
|---|---|---|
| 1. | Rear combination lamp RH | Refer to EXL-311, "Bulb Specifications". |
| 2. | High-mounted stop lamp assembly | Refer to EXL-311, "Bulb Specifications". |
| 3. | Rear door switch RH | Transmits the door open signal to the BCM to operate the autolight system.<br>Refer to DLK-15, "Front Door Switch" for front door switch or DLK-16, "Rear Door Switch" for rear door switch. |
| 4. | Front door switch RH | |
| 5. | BCM | • Detects each switch condition by the lighting switch, front fog lamp switch, and combination switch reading function.<br>• Judges that the exterior lamps are turned ON according to the vehicle condition.<br>• Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication).<br>• Requests high beam indicator lamp ON to the combination meter (via CAN communication).<br>• Judges the outside brightness from the optical sensor signal.<br>• Judges the ON/OFF timing according to the vehicle condition.<br>• Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition.<br>• Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| 6. | Door mirror RH (turn signal) | Refer to EXL-311, "Bulb Specifications". |
| 7. | IPDM E/R | • Supplies voltage to the load according to the request from BCM (via CAN communication).<br>• Refer to PCS-5, "Component Parts Location" for detailed installation location. |
| 8. | Front combination lamp RH | Refer to EXL-311, "Bulb Specifications". |
| 9. | Front fog lamp assembly RH | Refer to EXL-311, "Bulb Specifications". |
| 10. | Front fog lamp assembly LH | Refer to EXL-311, "Bulb Specifications". |
| 11. | Transmission range switch (Cummins 5.0L) | • Supplies ground to the back-up lamp relay to illuminate the back-up lamps.<br>• Refer to TM-15, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| | TCM (VK56VD) | • Supplies ground to the back-up lamp relay to illuminate the back-up lamps.<br>• Refer to TM-266, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| 12. | Door mirror LH (turn signal) | Refer to EXL-311, "Bulb Specifications". |
| 13. | Front door switch LH | Transmits the door open signal to the BCM to operate the autolight system.<br>Refer to DLK-15, "Front Door Switch" for front door switch or DLK-16, "Rear Door Switch" for rear door switch. |
| 14. | Rear door switch LH | |
| 15. | Rear combination lamp LH | Refer to EXL-311, "Bulb Specifications". |
| 16. | License plate lamp LH | Refer to EXL-311, "Bulb Specifications". |
| 17. | License plate lamp RH | Refer to EXL-311, "Bulb Specifications". |
| 18. | Optical sensor | Refer to EXL-157, "Optical Sensor". |
| 19. | Parking brake switch | • Transmits the parking brake switch signal to the combination meter to operate the daytime running light system.<br>• Refer to PB-7, "Exploded View" for detailed installation location. |
| 20. | Headlamp aiming switch | Sends signals to the BCM for headlamp aiming adjustment. |
| 21. | Front fog lamp switch | Sends signals to the BCM for fog lamp operation. |
| 22. | Lighting switch | Sends signals to the BCM for headlamp operation. |
| 23. | Stop lamp switch | • Transmits power to the stop lamp relay to illuminate the stop lamps.<br>• Refer to BR-21, "Exploded View" for detailed installation location. |
| 24. | Combination switch (Lighting and turn signal switch) | Refer to MWI-8, "METER SYSTEM : Component Parts Location" for detailed installation location. |
| 25. | Back-up lamp relay | Supplies voltage to the back-up lamps according to control from transmission range switch (Cummins 5.0L) or TCM (VK56VD). |
| 26. | Hazard switch | Refer to EXL-157, "Hazard Switch". |

| No. | Part | Function |
|---|---|---|
| 27. | Combination meter | Refer to MWI-12, "METER SYSTEM : Combination Meter". |
| 28. | Front combination lamp LH | Refer to EXL-311, "Bulb Specifications". |
| 29. | LED headlamp control module | Refer to EXL-157, "LED Headlamp Control Module". |
| 30. | Headlamp aimimg motor | Refer to EXL-158, "Headlamp Aiming Motor". |

## Optical Sensor

INFOID:0000000014388807

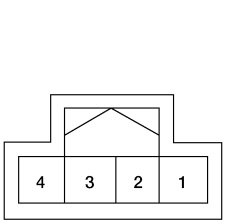
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.




## Hazard Switch

INFOID:0000000014388808

Inputs the hazard switch ON/OFF signal to BCM.



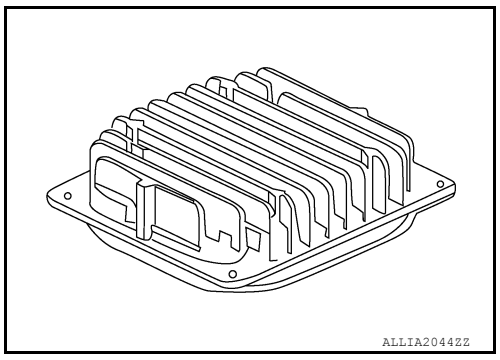

| | | OFF | ON |
|---|---|---|---|
| 2 | Hazard switch ON/OFF signal | | ● |
| 3 | Ground | | ● |
| 4 | Illumination + | ● | |
| | | ◁ | |
| 1 | Illumination - | ● | |

ALLIA1606GB

## LED Headlamp Control Module

INFOID:0000000014388809

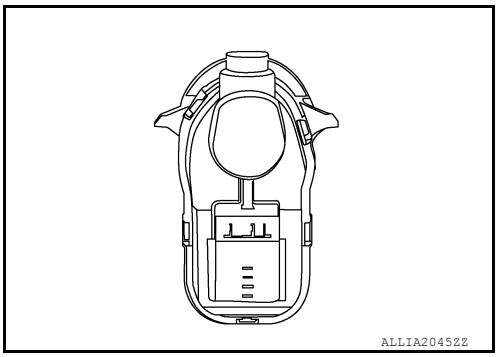
- LED headlamp control module is integrated into the front combination lamp and turns the LED headlamp ON according to the request from IPDM E/R.



## Headlamp Aiming Motor

INFOID:0000000014388810

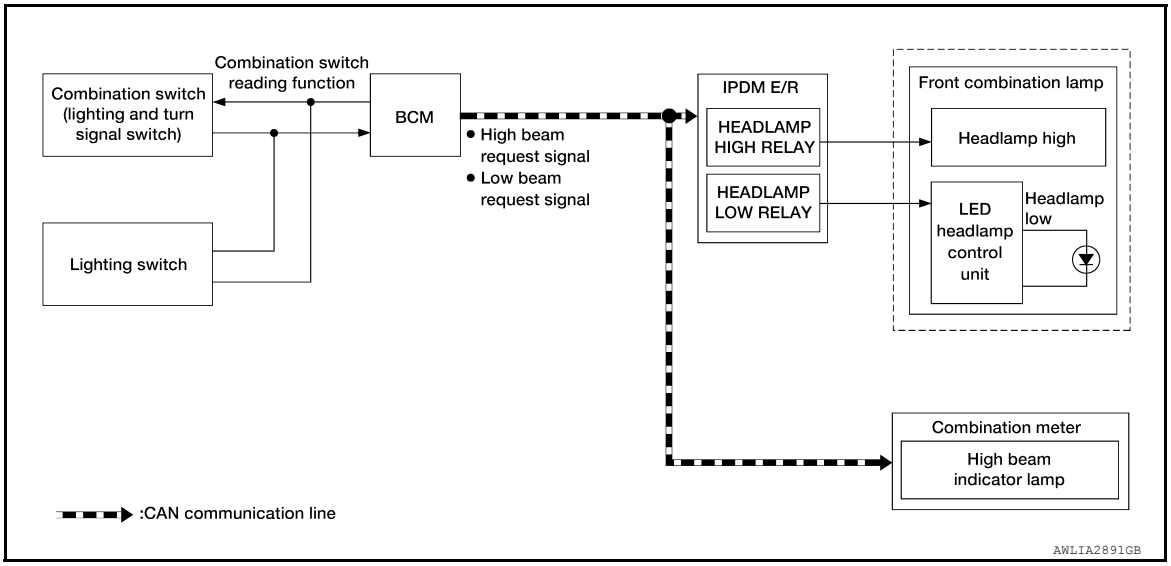
- Headlamp aiming motor is integrated in the front combination lamp.
- Headlamp aiming motor adjusts the headlamp light axis upward and downward according to input from headlamp aiming switch.



# SYSTEM
## HEADLAMP SYSTEM
### HEADLAMP SYSTEM : System Description

INFOID:0000000014388811

#### SYSTEM DIAGRAM




#### OUTLINE

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

#### HEADLAMP (LO) OPERATION

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

Headlamp (LO) ON condition:
- Lighting switch 2ND
- Lighting switch AUTO with the ignition switch ON (Only when the illumination judgment by auto light system is ON. For details, refer to EXL-160, "AUTO LIGHT SYSTEM : System Description".)
- Lighting switch PASS

- IPDM E/R turns the integrated headlamp low ON according to low beam request signal and supplies power supply to LED headlamp control unit.
- LED headlamp control unit turns the headlamp (LO) ON according to the power supply from IPDM E/R.

#### HEADLAMP (HI) OPERATION

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

Headlamp (HI) ON condition:
- Lighting switch HI with the lighting switch 2ND
- Lighting switch HI with the lighting switch AUTO and ignition switch ON (Only when the illumination judgment by auto light system is ON and the illumination judgment by high beam assist system is ON. For details, refer to EXL-160, "AUTO LIGHT SYSTEM : System Description".)
- Lighting switch PASS

- IPDM E/R turns the integrated headlamp high relay ON according to high beam request signal and supplies power to the LED headlamp control module.
- LED headlamp control module turns the headlamp (HI) ON according to the power supply from IPDM E/R.
- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.

#### EXTERIOR LAMP BATTERY SAVER CONTROL

With the lighting switch in the 2ND position and the ignition switch turned from ON or ACC to OFF, the battery saver feature is activated.

Under this condition, the headlamps remain illuminated for a period of time unless the lighting switch position is changed. If the lighting switch position is changed, then the headlamps are turned off.

### HEADLAMP WARNING OPERATION

Headlamp warning warns the driver that there is a malfunction in LED headlamp system. Refer to MWI-14, "METER SYSTEM : System Description".

## HEADLAMP SYSTEM : Fail-safe

INFOID:0000000014388812

### CAN COMMUNICATION CONTROL

When CAN communication with 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 BCM

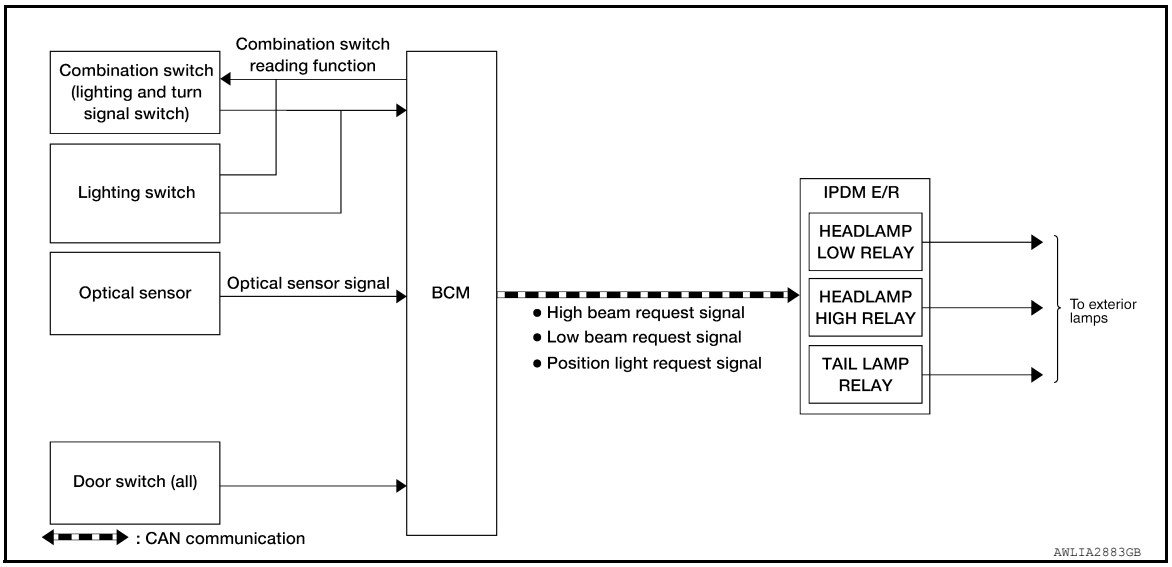
| Control part | Fail-safe operation |
|---|---|
| Headlamp | • Turns ON the headlamp low signal when the ignition switch is turned ON<br>• Turns OFF the headlamp low signal when the ignition switch is turned OFF<br>• Headlamp high relay OFF |

# AUTO LIGHT SYSTEM

## AUTO LIGHT SYSTEM : System Description

INFOID:0000000014388813

### SYSTEM DIAGRAM




### SYSTEM DESCRIPTION

- BCM (Body Control Module) controls auto light operation according to signals from optical sensor, lighting switch, and ignition switch.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, side marker, license plate, tail and headlamps according to CAN communication signals from BCM.
- Optical sensor detects ambient brightness of 800 to 2,500 lux. And optical sensor converts light (lux) to voltage, then sends the optical sensor signal to BCM.

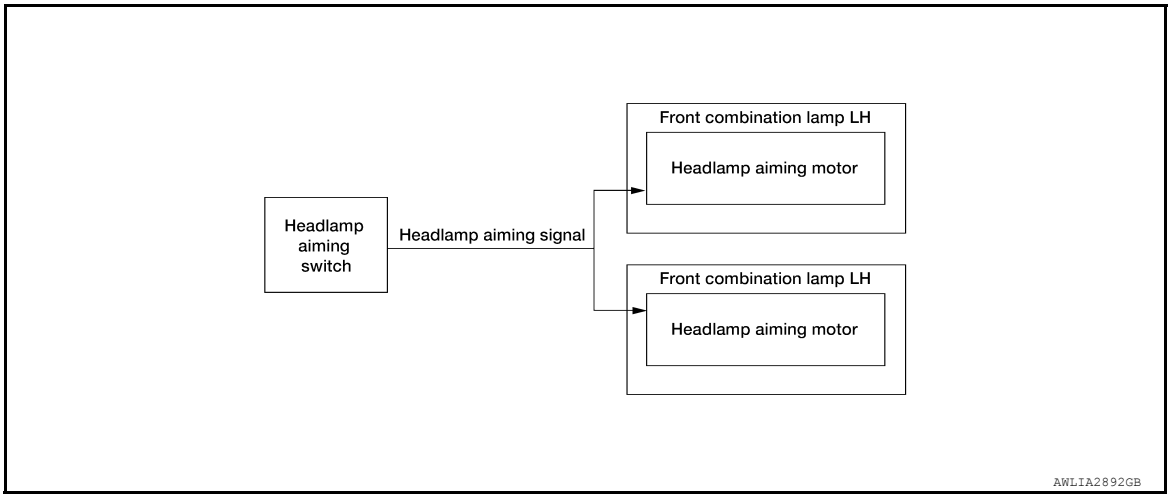
### OUTLINE

The auto light control system has an optical sensor that detects outside brightness.
When the lighting switch is in AUTO position, it automatically turns ON/OFF the parking, side marker, license plate, tail and headlamps in accordance with the ambient light. Sensitivity can be adjusted in four steps. For the details of the setting, Refer to BCS-23, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

# HEADLAMP AIMING SYSTEM (MANUAL)

## HEADLAMP AIMING SYSTEM (MANUAL) : System Diagram

INFOID:0000000014388814




## HEADLAMP AIMING SYSTEM (MANUAL) : System Description

INFOID:0000000014388815

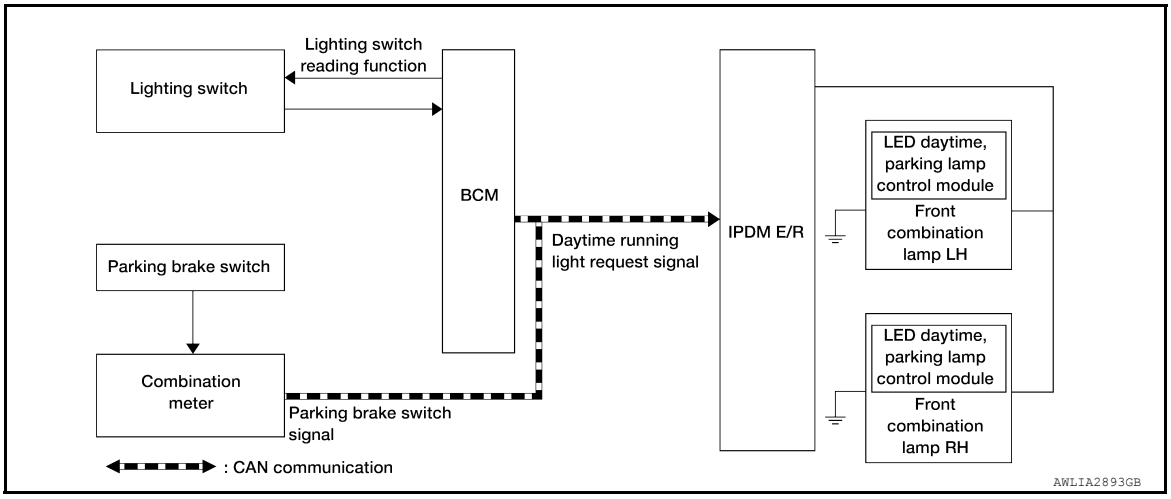
The headlamp aiming system (manual) controls the headlamp light axis height according to input from the headlamp aiming switch. The variable internal resistance of the headlamp aiming switch controls the signal ground of the headlamp aiming motors located on the front combination lamp LH and RH. The headlamp aiming system operates when the lighting switch is in the 2nd position.

# DAYTIME RUNNING LIGHT SYSTEM

## DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:0000000014388816

### SYSTEM DIAGRAM




### OUTLINE

- Turns the front combination lamps on through the LED daytime parking lamp control module as the daytime running light.
- Daytime running light is controlled by daytime running light control function and lighting switch reading function of BCM and relay control function of IPDM E/R.

### DAYTIME RUNNING LIGHT OPERATION

- BCM detects the lighting switch condition by the lighting switch reading function.
- BCM detects the vehicle condition according to ignition switch.
- BCM detects the parking brake condition by the parking brake switch signal received from combination meter using CAN communication.
- BCM transmits the daytime running light request signal to IPDM E/R using CAN communication according to the daytime running light ON condition.

Daytime running light ON condition:

- Vehicle condition READY
- Lighting switch OFF or 1ST
- Lighting switch AUTO and the auto light function OFF judgment
- Parking brake switch OFF

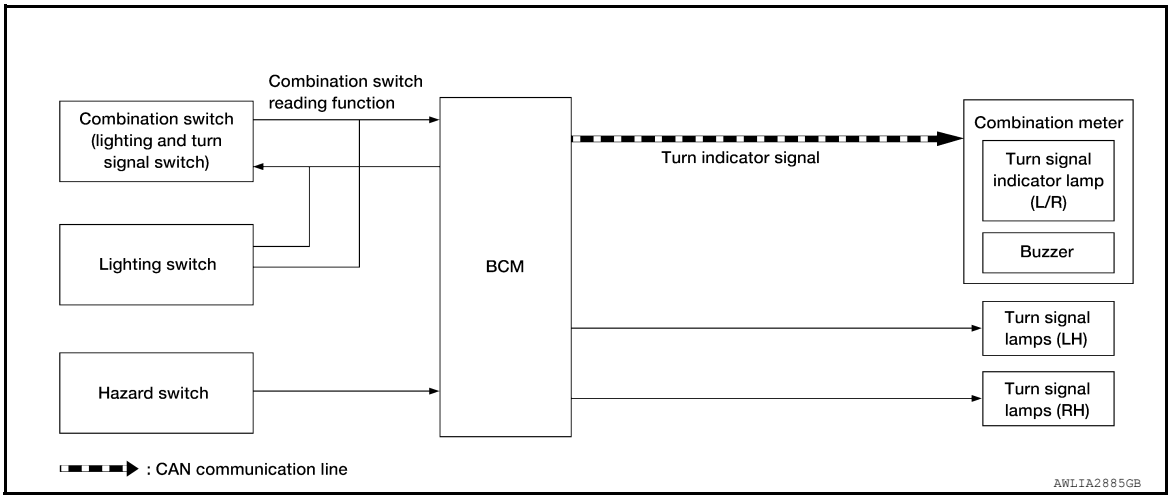
• IPDM E/R controls power to the LED daytime, parking lamp control module according to the daytime running light request signal.
• Power is supplied from the IPDM E/R to front combination lamp RH and LH, and then daytime running lamps are illuminated.

# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

*INFOID:0000000014388817*

### SYSTEM DIAGRAM




### OUTLINE

Turn signal lamp and the hazard warning lamp are controlled by combination switch (lighting and turn signal switch) reading function and the flasher control function of BCM.

### TURN SIGNAL LAMP OPERATION

• BCM detects the combination switch (lighting and turn signal switch) condition by the combination switch (lighting and turn signal switch) reading function.
• BCM supplies voltage to the right (left) turn signal lamp circuit when the ignition switch is 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 circuits when the hazard switch is ON. BCM blinks the hazard warning lamp.

### TURN SIGNAL INDICATOR LAMP AND TURN SIGNAL OPERATION

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

### 3-TIME FLASH FUNCTION

• By a short touch of the turn signal lever, BCM blinks the turn signal three times in the selected direction.
• Cancels the operation with a short touch of the turn signal lever in the reverse direction during the 3-time flasher function operation.

### HIGH FLASHER OPERATION

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

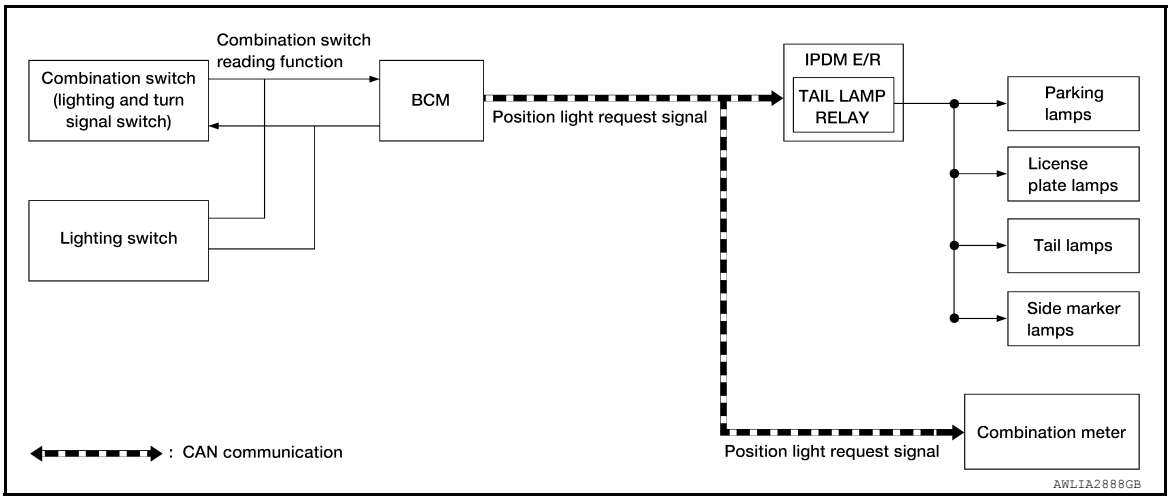
**NOTE:**
The blinking speed is normal while operating the hazard warning lamp.

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

## PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description

INFOID:0000000014388818

### SYSTEM DIAGRAM




### OUTLINE

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

### PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP OPERATION

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

- Lighting switch 1ST
- Lighting switch 2ND
- Lighting switch AUTO and the auto light function ON judgment
- Lighting switch AUTO with the front fog lamp switch ON and the ignition switch ON

- IPDM E/R turns the integrated tail lamp relay ON and turns the parking, 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.

## PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : Fail-Safe

INFOID:0000000014388819

### CAN COMMUNICATION CONTROL

When CAN communication with 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 BCM

| Control part | Fail-safe operation |
|---|---|
| • Parking lamps<br>• License plate lamps<br>• Illumination<br>• Tail lamps<br>• Side marker lamps | • Turns ON the tail lamp relay when the ignition switch is turned ON<br>• Turns OFF the tail lamp relay when the ignition switch is turned OFF |

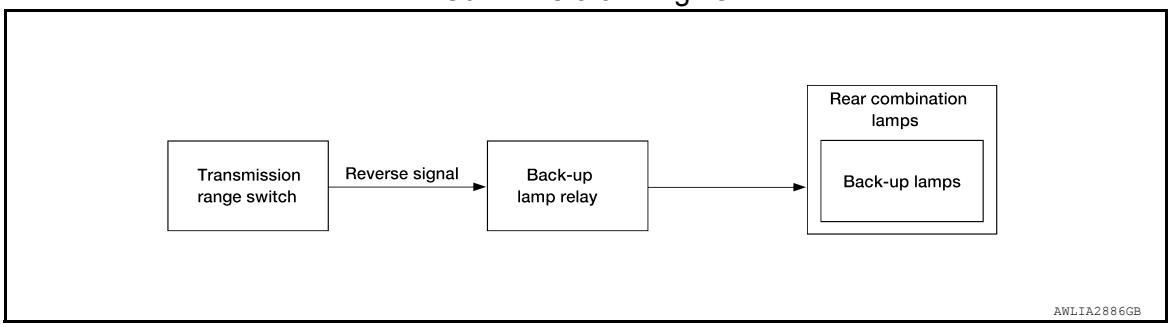
# BACK-UP LAMP SYSTEM

## BACK-UP LAMP SYSTEM : System Description

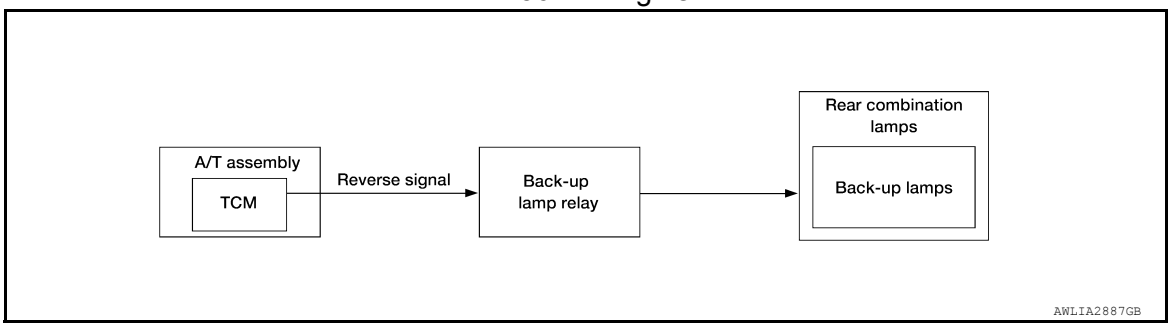
INFOID:0000000014388820

### SYSTEM DIAGRAM

Cummins 5.0L Engine




VK56VD Engine




OUTLINE

Back-up lamp is controlled by transmission range switch (Cummins 5.0L engine) or TCM (VK56VD engine) control function of back-up lamp relay.

BACK-UP LAMP OPERATION

- Back-up lamp relay detects the transmission range switch signal (Cummins 5.0L engine) or TCM signal (VK56VD engine).
- Back-up lamp relay then powers back-up lamps.

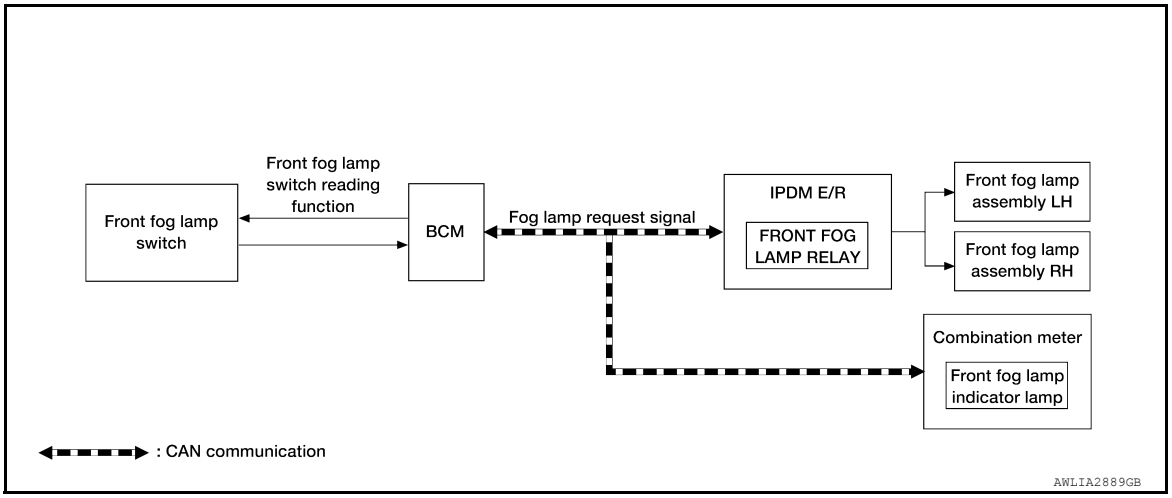
Back-up lamp ON condition:
- Ignition switch ON
- A/T shift selector position R

# FRONT FOG LAMP SYSTEM

## FRONT FOG LAMP SYSTEM : System Description

*INFOID:0000000014388821*

SYSTEM DIAGRAM




OUTLINE

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

### FRONT FOG LAMP OPERATION

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

Front fog lamp ON condition:
- Front fog lamp switch ON, and any of the following conditions are satisfied (except for the high beam ON):
- Lighting switch 2ND
- Lighting switch AUTO and the ignition switch ON

IPDM E/R turns the integrated front fog lamp relay ON and turns the front fog lamps ON according to the front fog lights request signal.
Combination meter turns the front fog lamp indicator lamp ON according to the front fog lights request signal.

## FRONT FOG LAMP SYSTEM : Fail-Safe

INFOID:0000000014388822

### CAN COMMUNICATION CONTROL

When CAN communication with 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 BCM

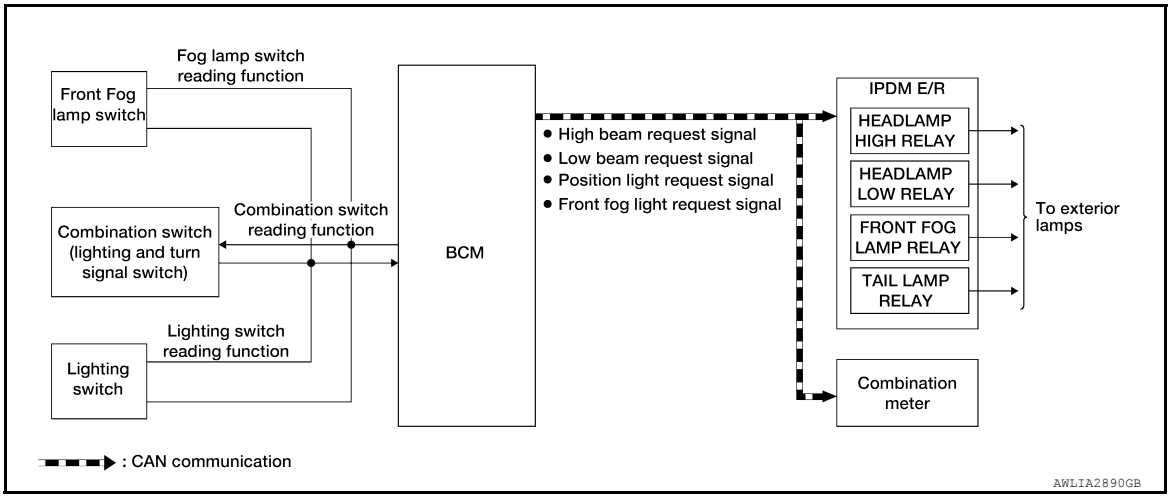
| Control part | Fail-safe operation |
|---|---|
| Front fog lamp | Front fog lamp relay OFF |

# EXTERIOR LAMP BATTERY SAVER SYSTEM

## EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000014388823

### SYSTEM DIAGRAM




### OUTLINE

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

Control by BCM:
- Combination switch (lighting and turn signal switch) reading function
- Lighting switch reading function
- Exterior lamp battery saver function

Control by IPDM E/R:
- Relay control function
- BCM turns the exterior lamp OFF* according to the vehicle status when ignition switch is turned OFF while exterior lamp is ON to prevent battery discharge.

*: Headlamp (HI/LO), front fog lamp, parking lamp. license plate lamp, side marker lamp and tail lamp.

### EXTERIOR LAMP BATTERY SAVER ACTIVATION

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

• When in any of following conditions (after the exterior lamp battery saver is activated), exterior lamps can be turned ON:
- Ignition switch is turned from OFF→ACC/ON.
- Lighting switch is changed.
- Front fog lamp switch is changed.

# DIAGNOSIS SYSTEM (BCM)
## COMMON ITEM
### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000014666290

#### APPLICATION ITEM
CONSULT performs the following functions via CAN communication with BCM.

| Direct Diagnostic Mode | Description |
|---|---|
| ECU Identification | The BCM part number is displayed. |
| Self Diagnostic Result | The BCM self diagnostic results are displayed. |
| Data Monitor | The BCM input/output data is displayed in real time. |
| Active Test | The BCM activates outputs to test components. |
| Work support | The settings for BCM functions can be changed. |
| Configuration | • The vehicle specification can be read and saved.<br>• The vehicle specification can be written when replacing BCM. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

#### SYSTEM APPLICATION
BCM can perform the following functions:

| System | Sub System | Direct Diagnostic Mode | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | ECU Identification | Self Diagnostic Result | Data Monitor | Active Test | Work support | Configuration | CAN Diag Support Mntr |
| Door lock | DOOR LOCK | | × | × | × | × | | |
| Rear window defogger | REAR DEFOGGER | | | × | × | × | | |
| Warning chime | BUZZER | | | × | × | | | |
| Interior room lamp timer | INT LAMP | | | × | × | × | | |
| Exterior lamp | HEADLAMP | | | × | × | × | | |
| Wiper and washer | WIPER | | | × | × | × | | |
| Turn signal and hazard warning lamps | FLASHER | | | × | × | × | | |
| Air conditioner | AIR CONDITIONER | | | × | | | | |
| Intelligent Key system | INTELLIGENT KEY | | × | × | × | × | | |
| Combination switch | COMB SW | | | × | | | | |
| BCM | BCM | × | × | | | × | × | × |
| Immobilizer | IMMU | | × | × | × | | | |
| Interior room lamp battery saver | BATTERY SAVER | | | × | × | | | |
| Vehicle security system | THEFT ALM | | | × | × | × | | |
| RAP system | RETAINED PWR | | | × | | | | |
| Signal buffer system | SIGNAL BUFFER | | | × | | | | |

#### FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays it on CONSULT.

| CONSULT screen item | Indication/Unit | Description | |
|---|---|---|---|
| Vehicle Speed | km/h | Vehicle speed at the moment a particular DTC is detected | |
| Odo/Trip Meter | km | Total mileage (Odometer value) at the moment a particular DTC is detected | |
| Vehicle Condition | SLEEP>LOCK | Power position status at the moment a particular DTC is detected* | 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 stopped and selector lever is in 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 | | While turning power supply position from “OFF” to “LOCK”* |
| | OFF>ACC | | While turning power supply position from “OFF” to “ACC” |
| | ON>CRANK | | While turning power supply position from “IGN” to “CRANKING” |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is “OFF”.) to low power consumption mode |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is “LOCK”*.) to low power consumption mode |
| | LOCK | | Power supply position is “LOCK” (Ignition switch OFF)* |
| | 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<br>• The number is 0 when a malfunction is detected now.<br>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON.<br>• 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 - HEADLAMP)

INFOID:0000000014666291

DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| ENGINE STATE [Stop/Stall/Crank/Run] | Indicates engine status received from ECM on CAN communication line. |
| VEH SPEED 1 [km/h] | Indicates vehicle speed signal received from ABS on CAN communication line. |
| TURN SIGNAL R [On/Off] | Indicates condition of combination switch. |
| TURN SIGNAL L [On/Off] | |
| TAIL LAMP SW [On/Off] | |
| HI BEAM SW [On/Off] | |
| HEAD LAMP SW 1 [On/Off] | |
| HEAD LAMP SW 2 [On/Off] | |
| PASSING SW [On/Off] | |
| AUTO LIGHT SW [On/Off] | |
| FR FOG SW [On/Off] | |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| OPTI SEN (DTCT) [V] | Indicates outside brightness voltage signal from optical sensor. |
| OPTI SEN (FILT) [V] | Indicates outside brightness voltage signal from optical sensor filtered by BCM. |

## ACTIVE TEST

| Test Item | Description |
|---|---|
| FR FOG LAMP | This test is able to check front fog lamp operation [On/Off]. |
| DAYTIME RUNNING LIGHT | This test is able to check daytime running lamp operation [On/Off]. |
| ILL DIM SIGNAL | This test is able to check head lamp illumination dimming operation [On/Off]. |

## WORK SUPPORT

| Support Item | Setting | Description |
|---|---|---|
| TWILIGHT ON | MODE2* | Auto lamp function ON. |
| | MODE1 | Auto lamp function OFF. |
| WIPER LINK | MODE4 | This mode is not used. |
| | MODE3* | Wiper link function operates in INT, LOW and HI. |
| | MODE2 | Wiper link function operates in LOW and HI. |
| | MODE1 | Wiper link function OFF. |
| CUSTOM A/LIGHT SETTING | MODE4 | Less sensitive than normal setting (turns ON later). |
| | MODE3 | More sensitive than MODE2. |
| | MODE2 | More sensitive than normal setting (turns ON earlier). |
| | MODE1* | Normal setting. |

| Support Item | Setting | Description |
|---|---|---|
| ILL DELAY SET | MODE 8 | Auto lamp delay timer. |
| | MODE 7 | |
| | MODE 6 | |
| | MODE 4 | |
| | MODE 5 | |
| | MODE 3 | |
| | MODE 2 | |
| | MODE 1* | |

*: Initial setting

# FLASHER

## FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000014666292

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| TURN SIGNAL R [On/Off] | Indicates condition of turn signal function of combination switch. |
| TURN SIGNAL L [On/Off] | |
| HAZARD SW [On/Off] | Indicates condition of hazard switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |
| RKE-PANIC [On/Off] | Indicates condition of panic alarm signal from Intelligent Key. |

### ACTIVE TEST

| Test Item | Description |
|---|---|
| FLASHER | This test is able to check turn signal lamp operation [Off/LH/RH]. |

### WORK SUPPORT

| Support item | Setting | Description |
|---|---|---|
| 3-TIME FLASHER SETTING | ON* | 3-Time flasher setting ON. |
| | OFF | 3-Time flasher setting OFF. |

* : Initial setting

# COMB SW

## COMB SW : CONSULT Function (BCM - COMB SW)

INFOID:0000000014666293

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| FR WIPER HI [On/Off] | Indicates condition of wiper operation of combination switch. |
| FR WIPER LOW [On/Off] | |
| FR WASHER SW [On/Off] | |
| FR WIPER INT [On/Off] | |

| Monitor Item [Unit] | Description |
|---|---|
| INT VOLUME [1 - 5] | Indicates condition of intermittent wiper [1 - 5] or auto wiper [1 - 4] operation of combination switch. |
| TURN SIGNAL R [On/Off] | Indicates condition of right turn signal operation of combination switch. |
| TURN SIGNAL L [On/Off] | Indicates condition of left turn signal operation of combination switch. |
| TAIL LAMP SW [On/Off] | Indicates condition of tail lamp switch operation of combination switch. |
| HI BEAM SW [On/Off] | Indicates condition of high beam switch operation of combination switch. |
| HEAD LAMP SW 1 [On/Off] | Indicates condition of head lamp switch 1 operation of combination switch. |
| HEAD LAMP SW 2 [On/Off] | Indicates condition of head lamp switch 2 operation of combination switch. |
| PASSING SW [On/Off] | Indicates condition of passing switch operation of combination switch. |
| AUTO LIGHT SW [On/Off] | Indicates condition of auto light switch operation of combination switch. |
| FR FOG SW [On/Off] | Indicates condition of front fog lamp switch operation of combination switch. |

# BATTERY SAVER

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

INFOID:0000000014666294

### DATA MONITOR

| Monitor Item [Unit] | Description |
|---|---|
| REQ SW -DR [On/Off] | Indicates condition of door request switch LH. |
| REQ SW -AS [On/Off] | Indicates condition of door request switch RH. |
| PUSH SW [On/Off] | Indicates condition of push-button ignition switch. |
| UNLK SEN -DR [On/Off] | Indicates condition of door unlock sensor. |
| DOOR SW-DR [On/Off] | Indicates condition of front door switch LH. |
| DOOR SW-AS [On/Off] | Indicates condition of front door switch RH. |
| DOOR SW-RR [On/Off] | Indicates condition of rear door switch RH. |
| DOOR SW-RL [On/Off] | Indicates condition of rear door switch LH. |
| CDL LOCK SW [On/Off] | Indicates condition of lock signal from door lock and unlock switch. |
| CDL UNLOCK SW [On/Off] | Indicates condition of unlock signal from door lock and unlock switch. |
| KEY CYL LK-SW [On/Off] | Indicates condition of lock signal from door key cylinder switch. |
| KEY CYL UN-SW [On/Off] | Indicates condition of unlock signal from door key cylinder switch. |
| RKE-LOCK [On/Off] | Indicates condition of lock signal from Intelligent Key. |
| RKE-UNLOCK [On/Off] | Indicates condition of unlock signal from Intelligent Key. |

### ACTIVE TEST

| Test item | Description |
|---|---|
| BATTERY SAVER | This test is able to check battery saver operation [On/Off]. |

# DIAGNOSIS SYSTEM (IPDM E/R)

## Diagnosis Description

INFOID:0000000014666295

### 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:

- Rear window defogger
- Front wipers (HI, LO)
- Front fog lamps (if equipped)
- Tail, license and parking lamps
- Daytime running lamps (if equipped)
- Headlamps (HI, LO)
- A/C compressor (magnetic clutch)

Operation Procedure

1. Close the hood and front door RH, and lift the wiper arms from the windshield (to prevent windshield damage due to wiper operation).
   **NOTE:**
   When auto active test is performed with hood opened, sprinkle water on windshield before hand.
2. Turn ignition switch OFF.
3. Turn the ignition switch ON and, within 20 seconds, press the front door switch LH 10 times. Then turn the ignition switch OFF.
4. Turn the ignition switch ON within 10 seconds. After that the horn sounds once and the auto active test starts.
5. 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:**

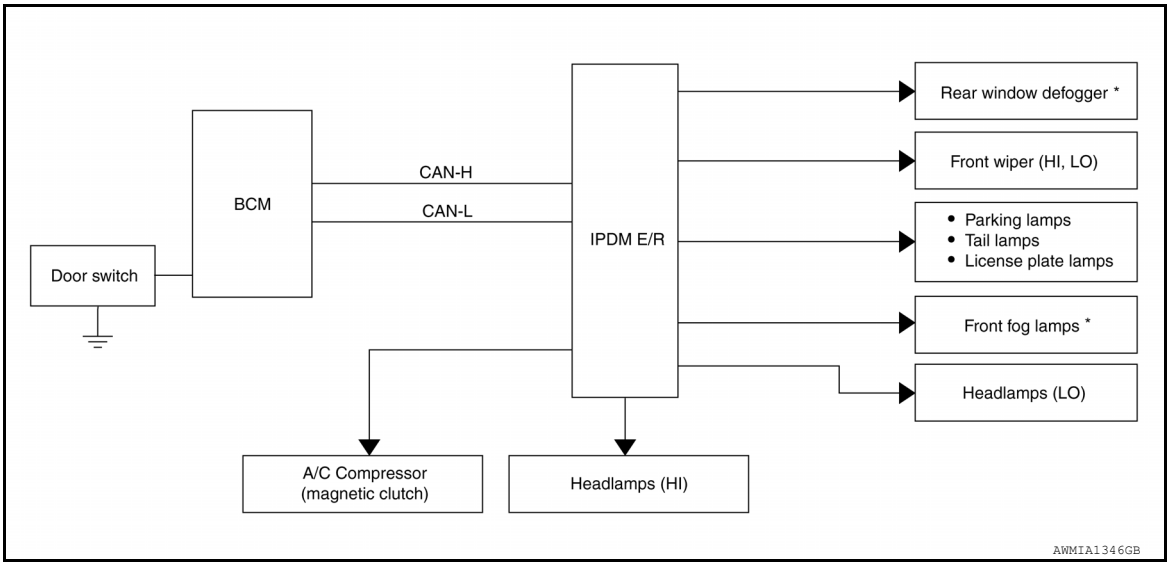
- **If auto active test mode cannot be actuated, check door switch system. Refer to DLK-98, "Component Function Check".**
- **Do not start the engine.**

Inspection in Auto Active Test Mode

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

| Operation sequence | Inspection Location | Operation |
|---|---|---|
| 1 | Rear window defogger | 10 seconds |
| 2 | Front wipers | HI for 5 seconds → LO for 5 seconds |
| 3 | Front fog lamps (if equipped), tail, license and parking lamps and daytime running lamps (if equipped) | 10 seconds |
| 4 | Headlamps | LO for 10 seconds → HI on-off for 5 seconds |
| 5 | A/C compressor (magnetic clutch) | ON ⇔ OFF 5 times |

Concept of auto active test




*: If equipped

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

Diagnosis chart in auto active test mode

| Symptom | Inspection contents | | Possible cause |
|---|---|---|---|
| Rear window defogger does not operate | Perform auto active test. Does the rear window defogger (if equipped) operate? | YES | BCM signal input circuit |
| | | NO | CAN communication signal between BCM and IPDM E/R |
| Any of the following components do not operate:<br>• Front wipers (HI, LO)<br>• Front fog lamps (if equipped)<br>• Tail lamps<br>• License plate lamps<br>• Parking lamps<br>• Daytime running lamps (if equipped)<br>• Headlamps (HI, LO) | Perform auto active test. Does the applicable system operate? | YES | BCM signal input system |
| | | NO | • Lamp or front wiper motor malfunction<br>• Lamp or front wiper motor ground circuit<br>• Harness or connector between IPDM E/R and applicable system<br>• IPDM E/R (integrated relay malfunction) |
| A/C compressor does not operate | Perform auto active test. Does the A/C compressor operate? | YES | • BCM signal input circuit<br>• CAN communication signal between BCM and ECM<br>• CAN communication signal between ECM and IPDM E/R |
| | | NO | • Magnetic clutch malfunction<br>• Harness or connector between IPDM E/R and magnetic clutch<br>• IPDM E/R (integrated relay malfunction) |

## CONSULT Function (IPDM E/R)

INFOID:0000000014666296

### APPLICATION ITEM

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

| Direct Diagnostic Mode | Description |
|---|---|
| Self Diagnostic Result | The IPDM E/R self diagnostic results are displayed. |
| Data Monitor | The IPDM E/R input/output data is displayed in real time. |
| Active Test | The IPDM E/R activates outputs to test components. |
| CAN Diag Support Mntr | The result of transmit/receive diagnosis of CAN communication is displayed. |

## SELF DIAGNOSTIC RESULT

Refer to PCS-23, "DTC Index".

## DATA MONITOR

| Monitor Item [Unit] | Main Signals | Description |
|---|---|---|
| AC COMP REQ [On/Off] | × | Indicates A/C compressor request signal received from ECM on CAN communication line |
| TAIL&CLR REQ [On/Off] | × | Indicates position light request signal received from BCM on CAN communication line |
| HL LO REQ [On/Off] | × | Indicates low beam request signal received from BCM on CAN communication line |
| HL HI REQ [On/Off] | × | Indicates high beam request signal received from BCM on CAN communication line |
| FR FOG REQ [On/Off] | × | Indicates front fog light request signal received from BCM on CAN communication line |
| FR WIP REQ [Stop/1LOW/Low/Hi] | × | Indicates front wiper request signal received from BCM on CAN communication line |
| WIP AUTO STOP [STOP P/ACT P] | × | Indicates condition of front wiper auto stop signal |
| WIP PROT [Off/BLOCK] | × | Indicates condition of front wiper fail-safe operation |
| IGN RLY1 -REQ [On/Off] | | Indicates ignition switch ON signal received from BCM on CAN communication line. |
| IGN RLY [On/Off] | × | Indicates condition of ignition relay |
| PUSH SW [On/Off] | | Indicates condition of push-button ignition switch. |
| INTER/NP SW [On/Off] | | Indicates condition of AT shift position. |
| ST RLY CONT [On/Off] | | Indicates starter relay status signal received from BCM on CAN communication line. |
| IHBT RLY -REQ [On/Off] | | Indicates starter control relay signal received from BCM on CAN communication line. |
| ST/INHI RLY [Off/ ST /INHI] | | Indicates condition of starter relay and starter control relay. |
| DETENT SW [On/Off] | | Indicates condition of AT shift selector (park position switch). |
| DTRL REQ [Off] | | Indicates daytime light request signal received from BCM on CAN communication line |
| HOOD SW [On/Off] | | Indicates condition of hood switch. |
| THFT HRN REQ [On/Off] | | Indicates theft warning horn request signal received from BCM on CAN communication line |
| HORN CHIRP [On/Off] | | Indicates horn reminder signal received from BCM on CAN communication line |
| HOOD SW 2 [On/Off] | | Indicates condition of hood switch 2. |

## ACTIVE TEST

| Test item | Description |
|---|---|
| REAR DEFOGGER | This test is able to check rear defogger operation [On/Off]. |
| FRONT WIPER | This test is able to check wiper motor operation [Hi/Lo/Off]. |

| Test item | Description |
|---|---|
| EXTERNAL LAMPS | This test is able to check external lamp operation [Fog/Hi/Lo/TAIL/Off]. |
| HORN | This test is able to check horn operation [On]. |

# ECU DIAGNOSIS INFORMATION

## BCM, IPDM E/R

### List of ECU Reference

INFOID:0000000014388831

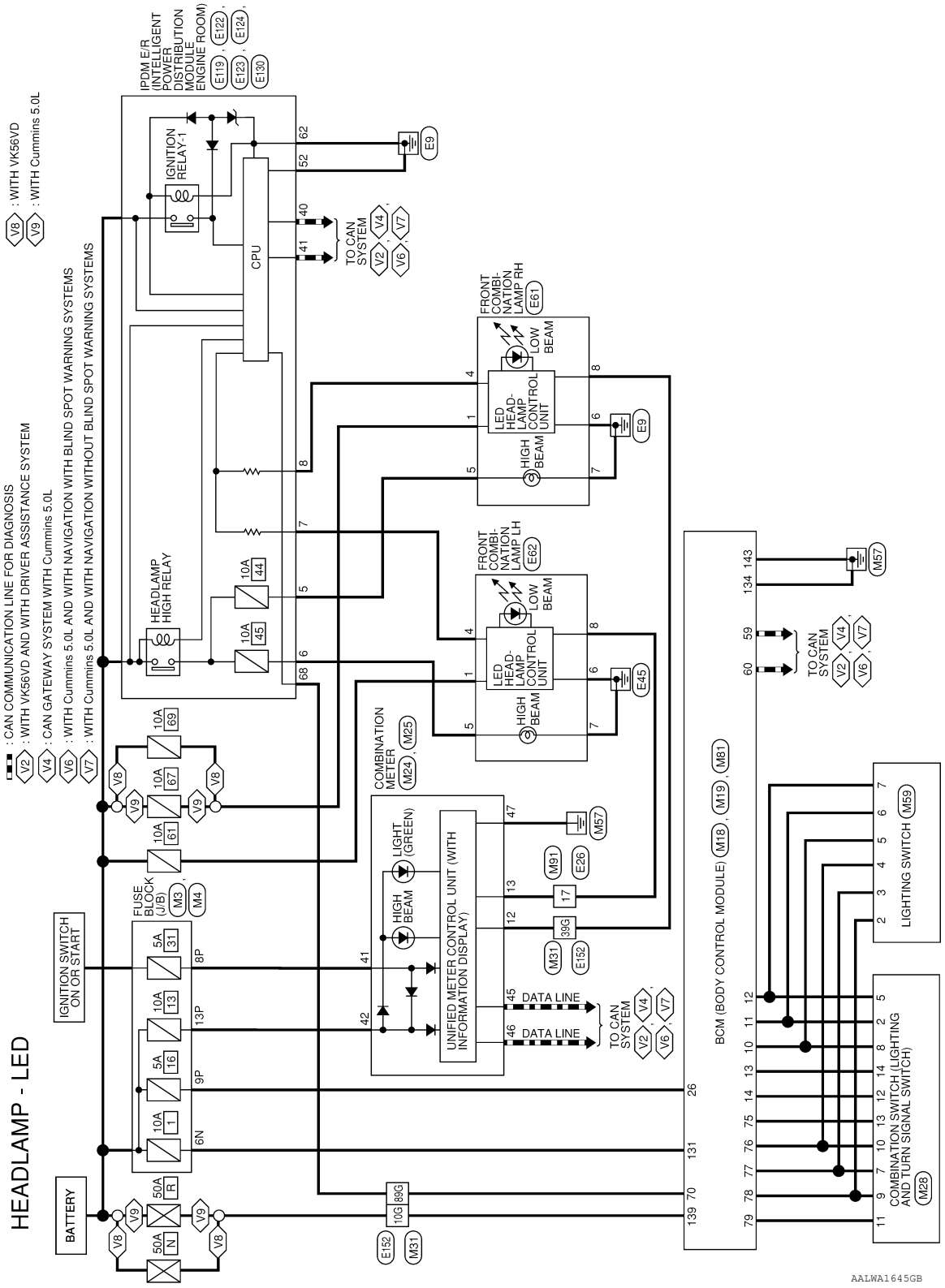
| ECU | Reference |
|---|---|
| BCM | BCS-32, "Reference Value" |
| | BCS-51, "Fail Safe" |
| | BCS-51, "DTC Inspection Priority Chart" |
| | BCS-52, "DTC Index" |
| IPDM E/R | PCS-14, "Reference Value" |
| | PCS-22, "Fail Safe" |
| | PCS-23, "DTC Index" |

# WIRING DIAGRAM

## HEADLAMP

### Wiring Diagram

INFOID:0000000014388832



HEADLAMP CONNECTORS - LED

| Connector No. | E26 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | LG/B | TO MAIN HARNESS |
| 2 | R/W | TO MAIN HARNESS |
| 3 | Y/R | TO MAIN HARNESS |
| 4 | G/R | TO MAIN HARNESS |
| 5 | G/W | TO MAIN HARNESS |
| 6 | P | TO MAIN HARNESS |
| 7 | O | TO MAIN HARNESS |
| 8 | R | TO MAIN HARNESS |
| 9 | G | TO MAIN HARNESS |
| 10 | LG | TO MAIN HARNESS |
| 11 | BR | TO MAIN HARNESS |
| 12 | GR | TO MAIN HARNESS |
| 13 | G | TO MAIN HARNESS |
| 14 | BR | TO MAIN HARNESS |
| 15 | – | TO MAIN HARNESS |
| 16 | – | TO MAIN HARNESS |
| 17 | W | TO MAIN HARNESS |
| 18 | – | TO MAIN HARNESS |
| 19 | Y/R | TO MAIN HARNESS |
| 20 | G/W | TO MAIN HARNESS |
| 21 | – | TO MAIN HARNESS |
| 22 | – | TO MAIN HARNESS |
| 23 | – | TO MAIN HARNESS |
| 24 | O/L | TO MAIN HARNESS |

| Connector No. | E61 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | R/Y | HEADLAMP LO |
| 5 | L/W | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | BR | LED H/LAMP |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E62 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | L | HEADLAMP LO |
| 5 | G | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | W | LED H/LAMP LH |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | O | ETC VB - (WITH VK56VD) |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 18 | – | – |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

| 42 | 41 | 40 | 39 | 38 | 37 |
|---|---|---|---|---|---|
| 48 | 47 | 46 | 45 | 44 | 43 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

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HEADLAMP CONNECTORS - LED

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.

| 51 | | 50 | 49 |
|---|---|---|---|
| 56 | 55 | 54 | 53 | 52 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | - | - |
| 52 | B | S-GND |
| 53 | - | - |
| 54 | - | - |
| 55 | - | - |
| 56 | - | - |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

| 67 | 66 | 65 | 64 | 63 |
|---|---|---|---|---|
| 72 | 71 | 70 | 69 | 68 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | - | - |
| 64 | R | DETENT SW |
| 65 | - | - |
| 66 | P | PUSH START SW |
| 67 | - | - |
| 68 | L | IGN SIGNAL |
| 69 | - | - |
| 70 | - | - |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| 59 | 58 | 57 |
|---|---|---|
| 62 | 61 | 60 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | B | P GND |

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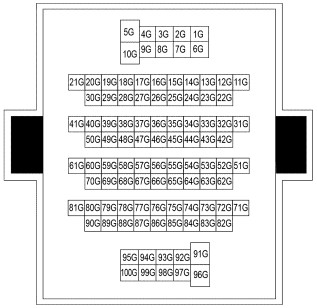
# HEADLAMP CONNECTORS - LED

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

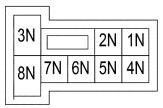
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

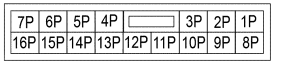
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| | |
|---|---|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

AALIA5652GB

HEADLAMP CONNECTORS - LED

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |

| 39 | B/R | SHIFT N/P |
|---|---|---|
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |

| 75 | L/W | COMBI SW OUT 5 |
|---|---|---|
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M24 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND(STRG/SATELLITE SW GND) |
| 2 | – | – |
| 3 | – | – |
| 4 | – | – |
| 5 | – | – |
| 6 | – | – |
| 7 | V | SECURITY |
| 8 | – | – |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | BR | LED HEAD LAMP (R) |
| 13 | W | LED HEAD LAMP (L) |
| 14 | R | ACC SW |
| 15 | W | OUTSIDE TEMP SENSOR (WITH VK56VD) |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND (WITH VK56VD) |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |

| 30 | – | – |
|---|---|---|
| 31 | – | – |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | – | – |
| 35 | – | – |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

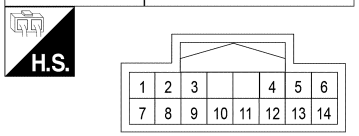
| 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|
| 52 | 51 | 50 | 49 | 48 | 47 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

AALIA5653GB

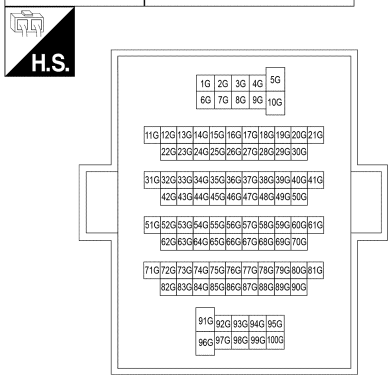
# HEADLAMP CONNECTORS - LED

| | |
|---|---|
| Connector No. | M28 |
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |



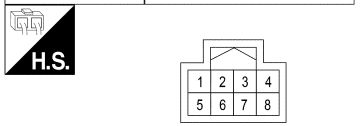

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| | |
|---|---|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| | |
|---|---|
| Connector No. | M59 |
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

AALIA5654GB

HEADLAMP CONNECTORS - LED

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| 8 | R | TO ENGINE ROOM HARNESS |
|---|---|---|
| 9 | G | TO ENGINE ROOM HARNESS |
| 10 | LG | TO ENGINE ROOM HARNESS |
| 11 | BR | TO ENGINE ROOM HARNESS |
| 12 | GR | TO ENGINE ROOM HARNESS |
| 13 | G | TO ENGINE ROOM HARNESS |
| 14 | BR | TO ENGINE ROOM HARNESS |
| 15 | – | TO ENGINE ROOM HARNESS |
| 16 | – | TO ENGINE ROOM HARNESS |
| 17 | W | TO ENGINE ROOM HARNESS |
| 18 | – | TO ENGINE ROOM HARNESS |
| 19 | Y/R | TO ENGINE ROOM HARNESS |
| 20 | G/W | TO ENGINE ROOM HARNESS |
| 21 | – | TO ENGINE ROOM HARNESS |
| 22 | – | TO ENGINE ROOM HARNESS |
| 23 | – | TO ENGINE ROOM HARNESS |
| 24 | O/L | TO ENGINE ROOM HARNESS |

| Connector No. | M91 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |
| Connector Color | WHITE |

H.S.

| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |

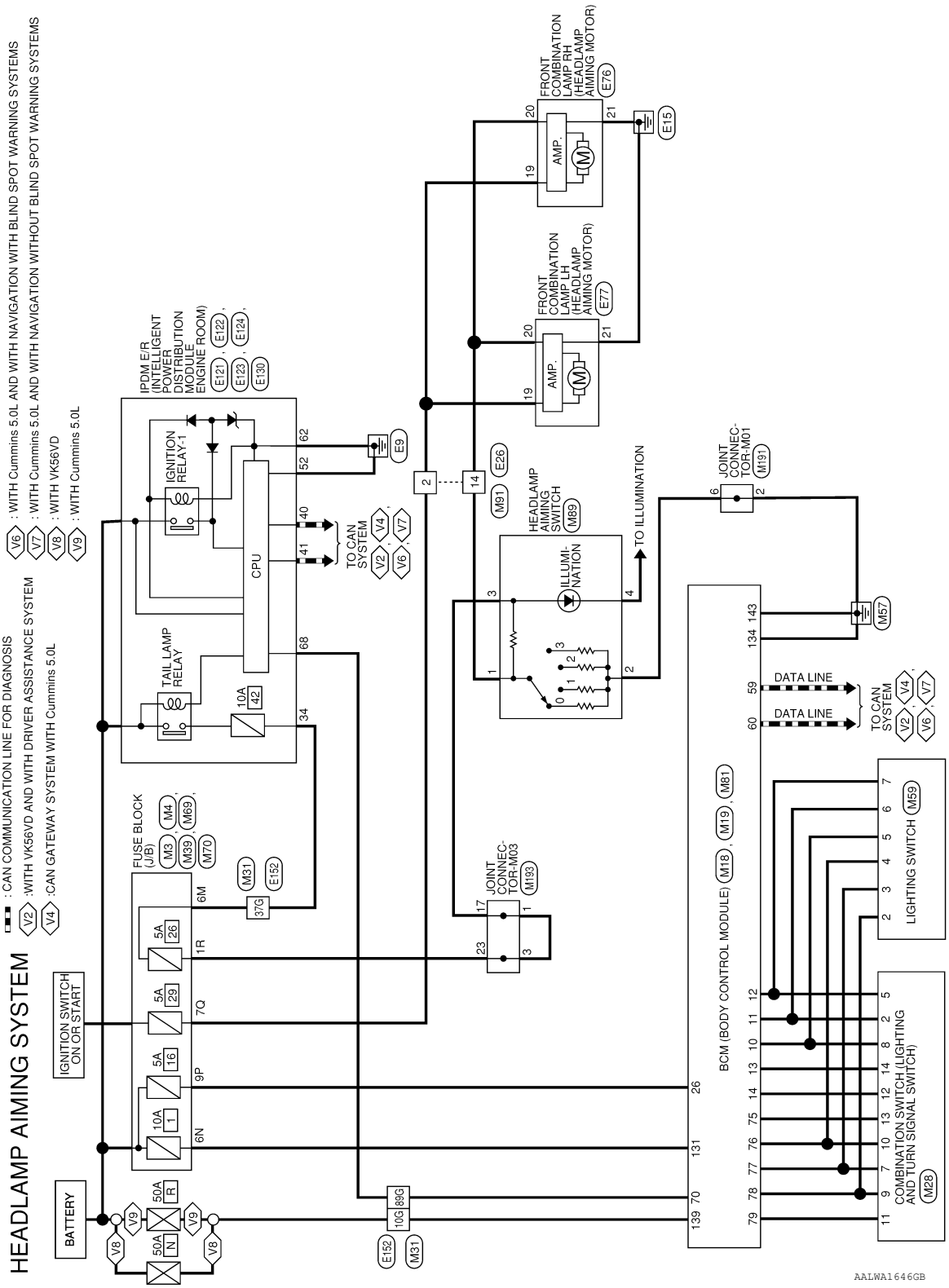
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G/W | TO ENGINE ROOM HARNESS |
| 2 | R/W | TO ENGINE ROOM HARNESS |
| 3 | Y/R | TO ENGINE ROOM HARNESS |
| 4 | G/R | TO ENGINE ROOM HARNESS |
| 5 | G | TO ENGINE ROOM HARNESS |
| 6 | P | TO ENGINE ROOM HARNESS |
| 7 | O | TO ENGINE ROOM HARNESS |

AALIA5655GB

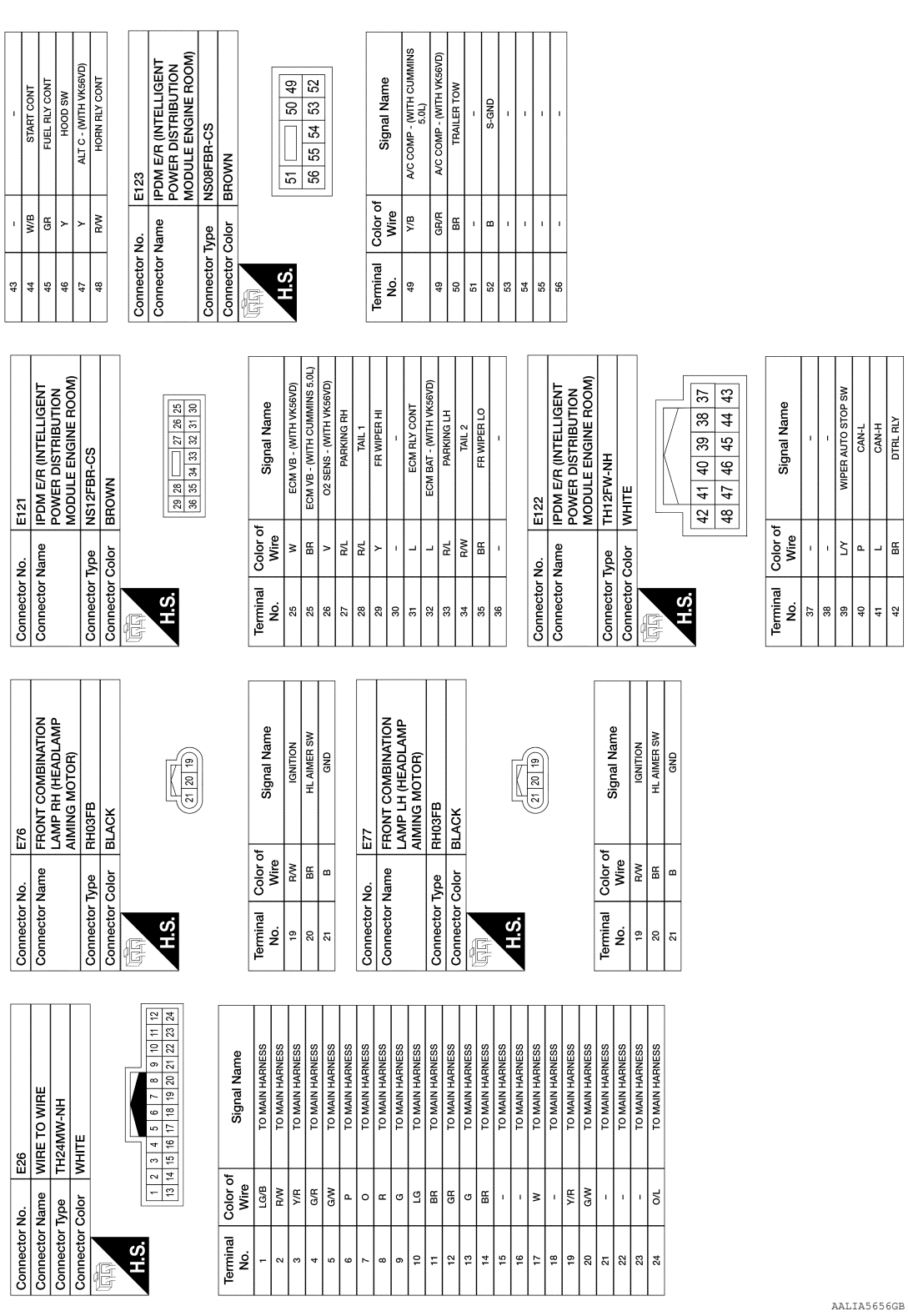
# HEADLAMP AIMING SYSTEM

## Wiring Diagram

INFOID:0000000014388833



HEADLAMP AIMING SYSTEM CONNECTORS



# HEADLAMP AIMING SYSTEM CONNECTORS

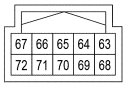
| | |
|---|---|
| Connector No. | E124 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | – | – |
| 60 | – | – |
| 61 | – | – |
| 62 | B | P GND |

| | |
|---|---|
| Connector No. | E130 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

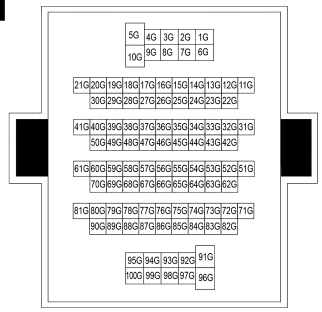
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

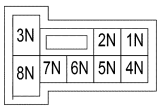
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

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HEADLAMP AIMING SYSTEM CONNECTORS

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |

| 7 | – | – |
|---|---|---|
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | | |
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |

| 43 | – | – |
|---|---|---|
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

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HEADLAMP AIMING SYSTEM CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M39 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1Q | – | – |
| 2Q | O/L | IGNITION |
| 3Q | – | – |
| 4Q | – | – |
| 5Q | – | – |
| 6Q | R/W | BATTERY |
| 7Q | R/W | IGNITION |
| 8Q | – | – |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

| Connector No. | M69 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1M | GR | IGNITION |
| 2M | – | – |
| 3M | – | – |
| 4M | – | – |
| 5M | R/Y | BATTERY |
| 6M | R/W | TAIL LAMP 2 |
| 7M | – | – |
| 8M | – | – |
| 9M | – | – |
| 10M | W/R | IGNITION |

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HEADLAMP AIMING SYSTEM CONNECTORS

| Connector No. | M70 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FBR-CS |
| Connector Color | BROWN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1R | L | TAIL LAMP 2 |
| 2R | G/R | IGNITION |
| 3R | Y/R | BATTERY |
| 4R | – | – |
| 5R | W | BATTERY |
| 6R | G/W | ACCESSORY |
| 7R | – | – |
| 8R | – | – |
| 9R | – | – |
| 10R | W | BATTERY |
| 11R | – | – |
| 12R | BG | BATTERY |
| 13R | B | ACCESSORY |
| 14R | G/Y | BATTERY |
| 15R | Y | BATTERY |
| 16R | G/R | ACCESSORY |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |

| 135 | O | DOOR LOCK DR/AS/FL |
|---|---|---|
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M89 |
|---|---|
| Connector Name | HEADLAMP AIMING SWITCH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.

| 2 | 1 | 3 | 4 |
|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | BR | AIMER SIG |
| 2 | B | GND |
| 3 | L | ILLUMINATION + |
| 4 | GR | ILLUMINATION - |

| Connector No. | M91 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |
| Connector Color | WHITE |

H.S.

| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G/W | TO ENGINE ROOM HARNESS |
| 2 | R/W | TO ENGINE ROOM HARNESS |
| 3 | Y/R | TO ENGINE ROOM HARNESS |
| 4 | G/R | TO ENGINE ROOM HARNESS |
| 5 | G | TO ENGINE ROOM HARNESS |
| 6 | P | TO ENGINE ROOM HARNESS |
| 7 | O | TO ENGINE ROOM HARNESS |
| 8 | R | TO ENGINE ROOM HARNESS |

| 9 | G | TO ENGINE ROOM HARNESS |
|---|---|---|
| 10 | LG | TO ENGINE ROOM HARNESS |
| 11 | BR | TO ENGINE ROOM HARNESS |
| 12 | GR | TO ENGINE ROOM HARNESS |
| 13 | G | TO ENGINE ROOM HARNESS |
| 14 | BR | TO ENGINE ROOM HARNESS |
| 15 | – | TO ENGINE ROOM HARNESS |
| 16 | – | TO ENGINE ROOM HARNESS |
| 17 | W | TO ENGINE ROOM HARNESS |
| 18 | – | TO ENGINE ROOM HARNESS |
| 19 | Y/R | TO ENGINE ROOM HARNESS |
| 20 | G/W | TO ENGINE ROOM HARNESS |
| 21 | – | TO ENGINE ROOM HARNESS |
| 22 | – | TO ENGINE ROOM HARNESS |
| 23 | – | TO ENGINE ROOM HARNESS |
| 24 | O/L | TO ENGINE ROOM HARNESS |

| Connector No. | M191 |
|---|---|
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.

| 4 | 3 | 2 | 1 |
|---|---|---|---|
| 8 | 7 | 6 | 5 |
| 12 | 11 | 10 | 9 |
| 16 | 15 | 14 | 13 |
| 20 | 19 | 18 | 17 |
| 24 | 23 | 22 | 21 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |

| 20 | B | GND |
|---|---|---|
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

| Connector No. | M193 |
|---|---|
| Connector Name | JOINT CONNECTOR-M03 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.

| 4 | 3 | 2 | 1 |
|---|---|---|---|
| 8 | 7 | 6 | 5 |
| 12 | 11 | 10 | 9 |
| 16 | 15 | 14 | 13 |
| 20 | 19 | 18 | 17 |
| 24 | 23 | 22 | 21 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | L | ILLUMINATION + |
| 3 | L | ILLUMINATION + |
| 4 | L | ILLUMINATION + |
| 5 | L | ILLUMINATION + |
| 6 | L | ILLUMINATION + |
| 7 | L | ILLUMINATION + |
| 8 | L | ILLUMINATION + |
| 9 | L | ILLUMINATION + |
| 10 | L | ILLUMINATION + |
| 11 | L | ILLUMINATION + |
| 12 | L | ILLUMINATION + |
| 13 | L | ILLUMINATION + |
| 14 | L | ILLUMINATION + |
| 15 | L | ILLUMINATION + |
| 16 | L | ILLUMINATION + |
| 17 | L | ILLUMINATION + |
| 18 | L | ILLUMINATION + |
| 19 | L | ILLUMINATION + |
| 20 | L | ILLUMINATION + |
| 21 | L | ILLUMINATION + |
| 22 | L | ILLUMINATION + |
| 23 | L | ILLUMINATION + |
| 24 | L | ILLUMINATION + |

AALIA5660GB

# AUTO LIGHT SYSTEM

## Wiring Diagram

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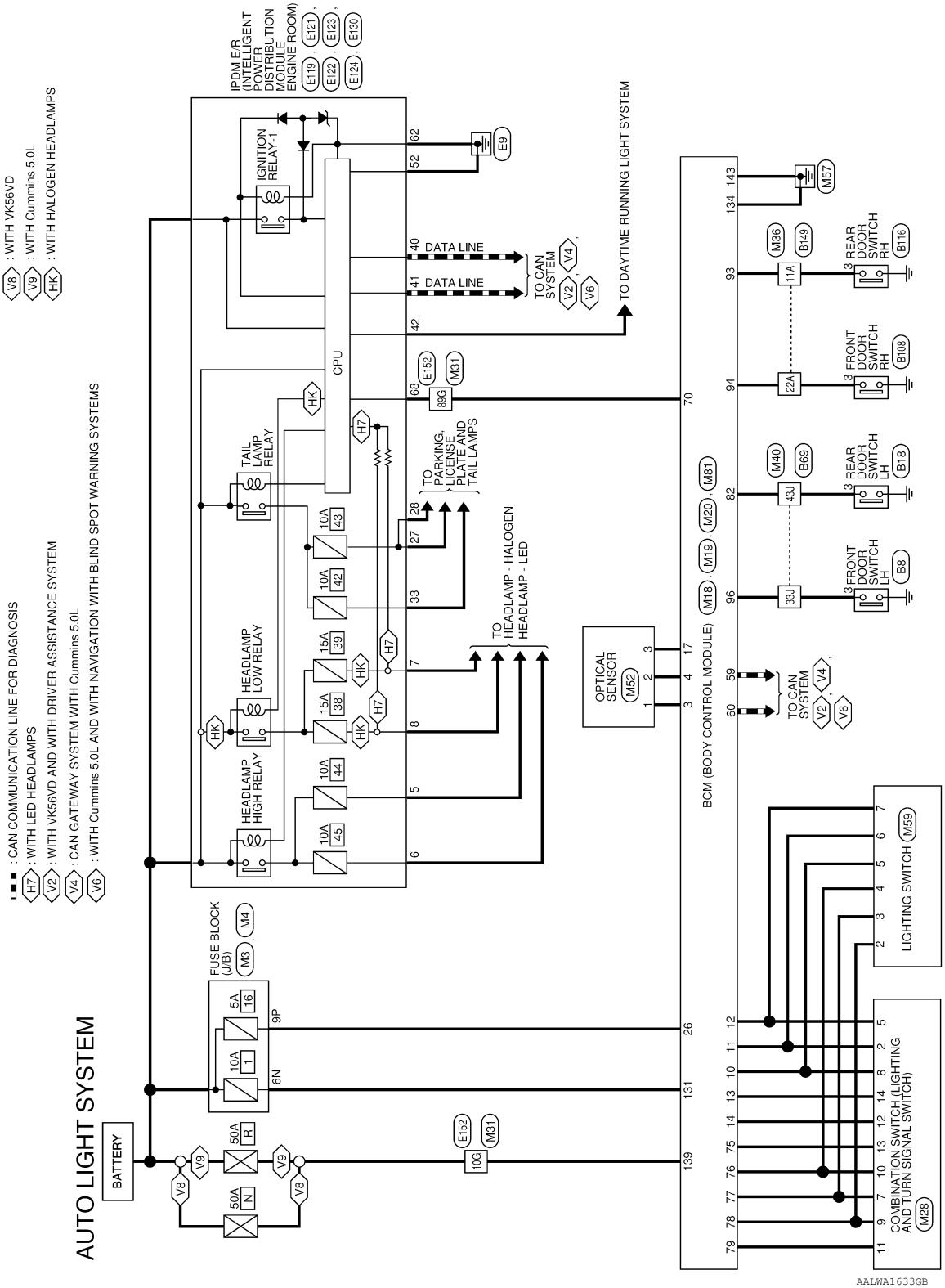

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | B8 |
|---|---|
| Connector Name | FRONT DOOR SWITCH LH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | L | DR DOOR SW |
| 4 | – | – |

| Connector No. | B18 |
|---|---|
| Connector Name | REAR DOOR SWITCH LH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | SB | RL DOOR SW |
| 4 | – | – |

| Connector No. | B69 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1J | P | TO MAIN HARNESS |
| 2J | R/Y | TO MAIN HARNESS |
| 3J | L | TO MAIN HARNESS |
| 4J | L/B | TO MAIN HARNESS |
| 5J | G/W | TO MAIN HARNESS |
| 6J | LG/Y | TO MAIN HARNESS |
| 7J | BR/LG | TO MAIN HARNESS |
| 8J | SB/BR | TO MAIN HARNESS |
| 9J | BR | TO MAIN HARNESS |
| 10J | BR | TO MAIN HARNESS |
| 11J | O/B | TO MAIN HARNESS |
| 12J | L | TO MAIN HARNESS |
| 13J | SB/O | TO MAIN HARNESS |
| 14J | Y | TO MAIN HARNESS |
| 15J | – | TO MAIN HARNESS |
| 16J | R | TO MAIN HARNESS |
| 17J | G | TO MAIN HARNESS |
| 18J | SB | TO MAIN HARNESS |
| 19J | O | TO MAIN HARNESS |
| 20J | O/B | TO MAIN HARNESS |
| 21J | Y/R | TO MAIN HARNESS |
| 22J | P | TO MAIN HARNESS |
| 23J | W | TO MAIN HARNESS |
| 24J | W/R | TO MAIN HARNESS |
| 25J | V | TO MAIN HARNESS |
| 26J | L | TO MAIN HARNESS |
| 27J | R | TO MAIN HARNESS |
| 28J | L | TO MAIN HARNESS |
| 29J | G/O | TO MAIN HARNESS |
| 30J | SB | TO MAIN HARNESS |
| 31J | LG | TO MAIN HARNESS |
| 32J | R | TO MAIN HARNESS |
| 33J | L | TO MAIN HARNESS |
| 34J | Y | TO MAIN HARNESS |
| 35J | P | TO MAIN HARNESS |
| 36J | G/R | TO MAIN HARNESS |
| 37J | LG/B | TO MAIN HARNESS |
| 38J | SB | TO MAIN HARNESS |
| 39J | Y/L | TO MAIN HARNESS |
| 40J | BR | TO MAIN HARNESS |
| 41J | L | TO MAIN HARNESS |
| 42J | L | TO MAIN HARNESS |
| 43J | SB | TO MAIN HARNESS |
| 44J | BR | TO MAIN HARNESS |
| 45J | BG | TO MAIN HARNESS |
| 46J | P/Y | TO MAIN HARNESS |
| 47J | Y/GR | TO MAIN HARNESS |
| 48J | V | TO MAIN HARNESS |
| 49J | BR/Y | TO MAIN HARNESS |
| 50J | G/W | TO MAIN HARNESS |
| 51J | – | TO MAIN HARNESS |
| 52J | SHIELD | TO MAIN HARNESS |
| 53J | R | TO MAIN HARNESS |
| 54J | L | TO MAIN HARNESS |
| 55J | R | TO MAIN HARNESS |
| 56J | W | TO MAIN HARNESS |
| 57J | L/G | TO MAIN HARNESS |
| 58J | O | TO MAIN HARNESS |
| 59J | – | TO MAIN HARNESS |
| 60J | SHIELD | TO MAIN HARNESS |
| 61J | G | TO MAIN HARNESS |
| 62J | – | TO MAIN HARNESS |
| 63J | R/W | TO MAIN HARNESS |
| 64J | L/W | TO MAIN HARNESS |
| 65J | SHIELD | TO MAIN HARNESS |
| 66J | B | TO MAIN HARNESS |
| 67J | SHIELD | TO MAIN HARNESS |
| 68J | O/L | TO MAIN HARNESS |
| 69J | SHIELD | TO MAIN HARNESS |
| 70J | BR | TO MAIN HARNESS |
| 71J | L/W | TO MAIN HARNESS |
| 72J | – | TO MAIN HARNESS |
| 72J | – | TO MAIN HARNESS |
| 73J | – | TO MAIN HARNESS |
| 74J | SHIELD | TO MAIN HARNESS |
| 75J | LG/B | TO MAIN HARNESS |
| 76J | R | TO MAIN HARNESS |
| 77J | SHIELD | TO MAIN HARNESS |
| 78J | GR/B | TO MAIN HARNESS |
| 79J | B | TO MAIN HARNESS |
| 80J | W | TO MAIN HARNESS |
| 81J | SHIELD | TO MAIN HARNESS |
| 82J | L/R | TO MAIN HARNESS |
| 83J | – | TO MAIN HARNESS |
| 84J | – | TO MAIN HARNESS |
| 85J | Y/B | TO MAIN HARNESS |
| 86J | G | TO MAIN HARNESS |
| 87J | B/R | TO MAIN HARNESS |
| 88J | SHIELD | TO MAIN HARNESS |
| 88J | GR/R | TO MAIN HARNESS |
| 90J | L | TO MAIN HARNESS |
| 91J | L/B | TO MAIN HARNESS |
| 92J | SB | TO MAIN HARNESS |
| 93J | B | TO MAIN HARNESS |
| 94J | L | TO MAIN HARNESS |
| 95J | LG | TO MAIN HARNESS |
| 96J | R | TO MAIN HARNESS |
| 97J | B/Y | TO MAIN HARNESS |
| 98J | L/B | TO MAIN HARNESS |
| 99J | W/L | TO MAIN HARNESS |
| 100J | SB | TO MAIN HARNESS |

| Connector No. | B108 |
|---|---|
| Connector Name | FRONT DOOR SWITCH RH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | LG/R | AS DOOR SW |
| 4 | – | – |

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AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | B116 |
|---|---|
| Connector Name | REAR DOOR SWITCH RH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | – | – |
| 3 | LG | RR DOOR SW |
| 4 | – | – |

| Connector No. | B149 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MDGY-CS16-TM4 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1A | SB/G | TO MAIN HARNESS -(WITHOUT CLIMATE CONTROLLED SEATS) |
| 1A | SB | TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS) |
| 2A | L | TO MAIN HARNESS |
| 3A | V | TO MAIN HARNESS |
| 4A | SB/R | TO MAIN HARNESS |
| 5A | – | TO MAIN HARNESS |

| 6A | LG/Y | TO MAIN HARNESS -(WITHOUT CLIMATE CONTROLLED SEATS) |
|---|---|---|
| 6A | LG | TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS) |
| 7A | W | TO MAIN HARNESS |
| 8A | B | TO MAIN HARNESS |
| 9A | L/B | TO MAIN HARNESS |
| 10A | W | TO MAIN HARNESS |
| 11A | LG | TO MAIN HARNESS |
| 12A | BR/O | TO MAIN HARNESS |
| 13A | Y/W | TO MAIN HARNESS |
| 14A | R/G | TO MAIN HARNESS |
| 15A | Y/L | TO MAIN HARNESS |
| 16A | O/L | TO MAIN HARNESS |
| 17A | L | TO MAIN HARNESS |
| 18A | Y | TO MAIN HARNESS |
| 19A | LG | TO MAIN HARNESS |
| 20A | R | TO MAIN HARNESS |
| 21A | BG | TO MAIN HARNESS |
| 22A | LG/R | TO MAIN HARNESS |
| 23A | Y/LG | TO MAIN HARNESS |
| 24A | BR/Y | TO MAIN HARNESS |
| 25A | – | TO MAIN HARNESS |
| 26A | GR | TO MAIN HARNESS |
| 27A | LG | TO MAIN HARNESS |
| 28A | LG/B | TO MAIN HARNESS |
| 29A | – | TO MAIN HARNESS |
| 30A | BR | TO MAIN HARNESS |
| 31A | W/R | TO MAIN HARNESS |
| 32A | G/R | TO MAIN HARNESS |
| 33A | – | TO MAIN HARNESS |
| 34A | SHIELD | TO MAIN HARNESS |
| 35A | P | TO MAIN HARNESS |
| 36A | B | TO MAIN HARNESS |
| 37A | – | TO MAIN HARNESS |
| 38A | R/B | TO MAIN HARNESS |
| 39A | G/O | TO MAIN HARNESS |
| 40A | V | TO MAIN HARNESS |
| 41A | SHIELD | TO MAIN HARNESS |
| 42A | SHIELD | TO MAIN HARNESS |
| 43A | R | TO MAIN HARNESS |
| 44A | G | TO MAIN HARNESS |
| 45A | – | TO MAIN HARNESS |
| 46A | – | TO MAIN HARNESS |
| 47A | Y | TO MAIN HARNESS |
| 48A | R/W | TO MAIN HARNESS |
| 49A | R/L | TO MAIN HARNESS |
| 50A | B | TO MAIN HARNESS |
| 51A | – | TO MAIN HARNESS |
| 52A | – | TO MAIN HARNESS |
| 53A | – | TO MAIN HARNESS |
| 54A | – | TO MAIN HARNESS |
| 55A | – | TO MAIN HARNESS |
| 56A | – | TO MAIN HARNESS |

| 57A | – | TO MAIN HARNESS |
|---|---|---|
| 58A | – | TO MAIN HARNESS |
| 59A | – | TO MAIN HARNESS |
| 60A | G/W | TO MAIN HARNESS |
| 61A | – | TO MAIN HARNESS |
| 62A | – | TO MAIN HARNESS |
| 63A | – | TO MAIN HARNESS |
| 64A | – | TO MAIN HARNESS |
| 65A | – | TO MAIN HARNESS |
| 66A | – | TO MAIN HARNESS |
| 67A | – | TO MAIN HARNESS |
| 68A | – | TO MAIN HARNESS |
| 69A | Y/R | TO MAIN HARNESS |
| 70A | R/G | TO MAIN HARNESS |
| 71A | – | TO MAIN HARNESS |
| 72A | Y/B | TO MAIN HARNESS |
| 73A | G | TO MAIN HARNESS |
| 74A | B/R | TO MAIN HARNESS |
| 75A | SHIELD | TO MAIN HARNESS |
| 76A | GR/R | TO MAIN HARNESS |
| 77A | L | TO MAIN HARNESS |
| 78A | SHIELD | TO MAIN HARNESS |
| 79A | Y | TO MAIN HARNESS |
| 80A | L | TO MAIN HARNESS |
| 81A | R | TO MAIN HARNESS |
| 82A | SHIELD | TO MAIN HARNESS |
| 83A | LG/B | TO MAIN HARNESS |
| 84A | R | TO MAIN HARNESS |
| 85A | SHIELD | TO MAIN HARNESS |
| 86A | GR/B | TO MAIN HARNESS |
| 87A | B | TO MAIN HARNESS |
| 88A | W | TO MAIN HARNESS |
| 89A | SHIELD | TO MAIN HARNESS |
| 90A | G | TO MAIN HARNESS |
| 91A | W/L | TO MAIN HARNESS |
| 92A | BR | TO MAIN HARNESS |
| 93A | L/Y | TO MAIN HARNESS |
| 94A | R/L | TO MAIN HARNESS |
| 95A | BR | TO MAIN HARNESS |
| 96A | R | TO MAIN HARNESS |
| 97A | LG | TO MAIN HARNESS |
| 98A | B/V | TO MAIN HARNESS |
| 99A | O/L | TO MAIN HARNESS |
| 100A | BR/W | TO MAIN HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

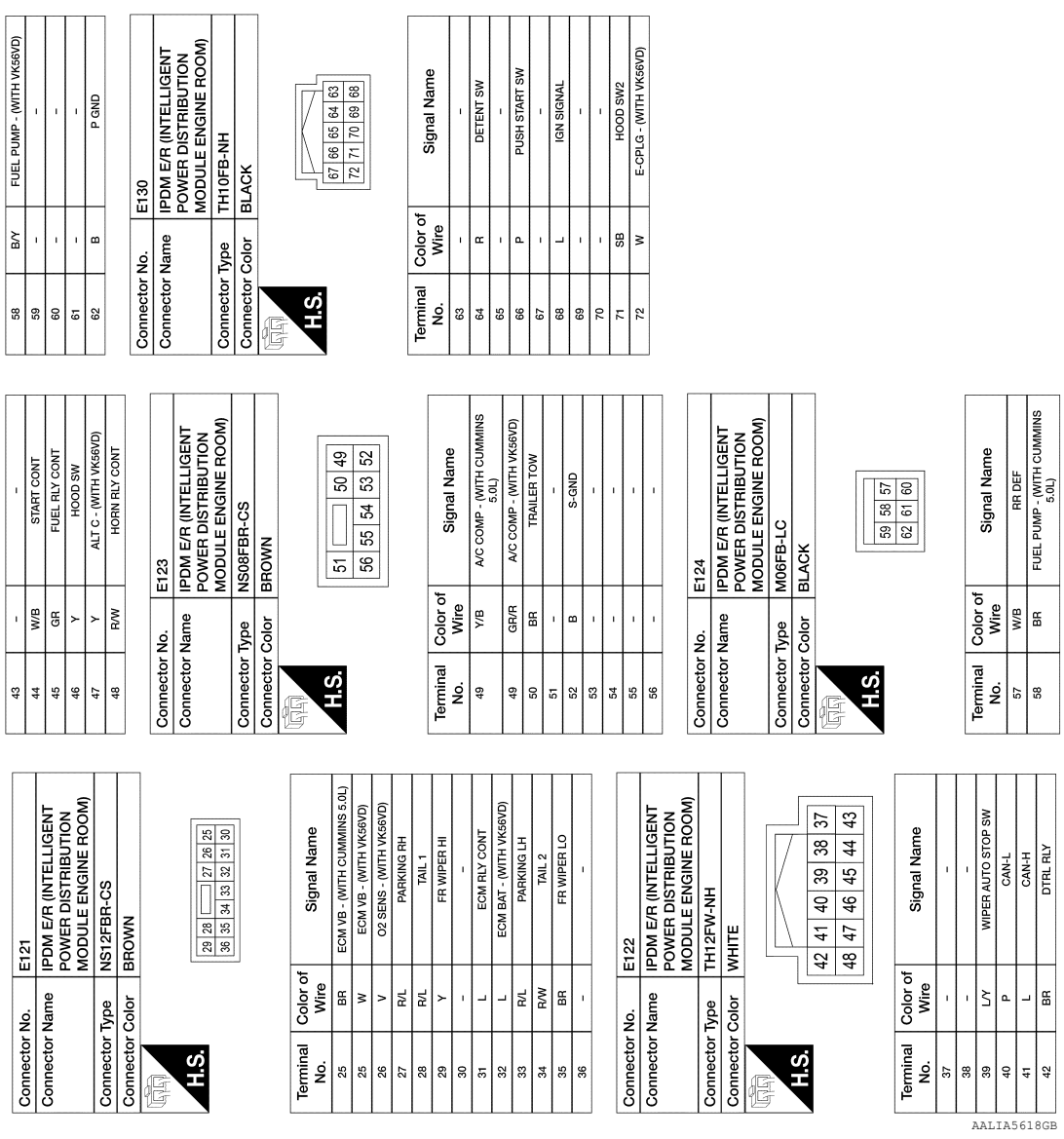
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

AALIA5617GB

AUTO LIGHT SYSTEM CONNECTORS

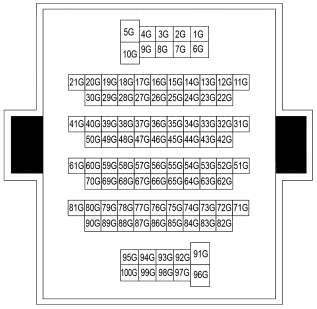



AALIA5618GB

# AUTO LIGHT SYSTEM CONNECTORS

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

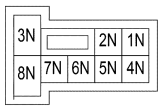
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

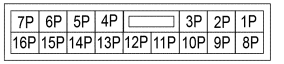
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| | |
|---|---|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

AALIA5619GB

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |

| 39 | B/R | SHIFT N/P |
|---|---|---|
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |

| 75 | L/W | COMBI SW OUT 5 |
|---|---|---|
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M20 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FGY-NH |
| Connector Color | GRAY |

H.S.

| 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 81 | – | – |
| 82 | W | RL DOOR SW |
| 83 | – | – |
| 84 | – | – |
| 85 | – | – |
| 86 | G/B | TRAILER FLASHER RL |
| 87 | Y/B | TRAILER FLASHER RR |
| 88 | – | – |
| 89 | – | – |
| 90 | – | – |
| 91 | – | – |
| 92 | O | RR FLASHER |
| 93 | R | RR DOOR SW |
| 94 | G | AS DOOR SW |
| 95 | – | – |
| 96 | BG | DR DOOR SW |
| 97 | P/L | CARGO LAMP SW |
| 98 | – | – |
| 99 | – | – |
| 100 | – | – |
| 101 | – | – |
| 102 | – | – |
| 103 | G/B | RL FLASHER |
| 104 | – | – |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

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AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

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AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M36 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FDGY-CS16-TM4 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1A | W | TO BODY NO. 2 HARNESS |
| 2A | LG | TO BODY NO. 2 HARNESS |
| 3A | V | TO BODY NO. 2 HARNESS |
| 4A | SB | TO BODY NO. 2 HARNESS |
| 5A | – | TO BODY NO. 2 HARNESS |
| 6A | BG | TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT) |
| 6A | LG | TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT) |
| 7A | W | TO BODY NO. 2 HARNESS |
| 8A | B | TO BODY NO. 2 HARNESS |
| 9A | L/B | TO BODY NO. 2 HARNESS |
| 10A | W | TO BODY NO. 2 HARNESS |
| 11A | R | TO BODY NO. 2 HARNESS |
| 12A | BR | TO BODY NO. 2 HARNESS |
| 13A | G | TO BODY NO. 2 HARNESS |
| 14A | R/G | TO BODY NO. 2 HARNESS |
| 15A | O | TO BODY NO. 2 HARNESS |
| 16A | O/L | TO BODY NO. 2 HARNESS |
| 17A | L | TO BODY NO. 2 HARNESS |
| 18A | Y | TO BODY NO. 2 HARNESS |
| 19A | B/W | TO BODY NO. 2 HARNESS |
| 20A | R | TO BODY NO. 2 HARNESS |
| 21A | BG | TO BODY NO. 2 HARNESS |
| 22A | G | TO BODY NO. 2 HARNESS |
| 23A | Y | TO BODY NO. 2 HARNESS |
| 24A | L | TO BODY NO. 2 HARNESS |
| 25A | – | TO BODY NO. 2 HARNESS |
| 26A | GR | TO BODY NO. 2 HARNESS |
| 27A | LG | TO BODY NO. 2 HARNESS |
| 28A | LG | TO BODY NO. 2 HARNESS |
| 29A | GR | TO BODY NO. 2 HARNESS |
| 30A | BR | TO BODY NO. 2 HARNESS |
| 31A | W/R | TO BODY NO. 2 HARNESS |
| 32A | G/R | TO BODY NO. 2 HARNESS |
| 33A | – | TO BODY NO. 2 HARNESS |
| 34A | SHIELD | TO BODY NO. 2 HARNESS |
| 35A | P | TO BODY NO. 2 HARNESS |
| 36A | B | TO BODY NO. 2 HARNESS |
| 37A | – | TO BODY NO. 2 HARNESS |
| 38A | R/B | TO BODY NO. 2 HARNESS |
| 39A | G/O | TO BODY NO. 2 HARNESS |
| 40A | V | TO BODY NO. 2 HARNESS |
| 41A | SHIELD | TO BODY NO. 2 HARNESS |
| 42A | SHIELD | TO BODY NO. 2 HARNESS |
| 43A | R | TO BODY NO. 2 HARNESS |
| 44A | G | TO BODY NO. 2 HARNESS |
| 45A | – | TO BODY NO. 2 HARNESS |
| 46A | – | TO BODY NO. 2 HARNESS |
| 47A | Y | TO BODY NO. 2 HARNESS |
| 48A | R/W | TO BODY NO. 2 HARNESS |
| 49A | R/L | TO BODY NO. 2 HARNESS |
| 50A | B | TO BODY NO. 2 HARNESS |
| 51A | – | TO BODY NO. 2 HARNESS |
| 52A | – | TO BODY NO. 2 HARNESS |
| 53A | – | TO BODY NO. 2 HARNESS |
| 54A | – | TO BODY NO. 2 HARNESS |
| 55A | – | TO BODY NO. 2 HARNESS |
| 56A | – | TO BODY NO. 2 HARNESS |
| 57A | – | TO BODY NO. 2 HARNESS |
| 58A | – | TO BODY NO. 2 HARNESS |
| 59A | – | TO BODY NO. 2 HARNESS |
| 60A | G/W | TO BODY NO. 2 HARNESS |
| 61A | – | TO BODY NO. 2 HARNESS |
| 62A | – | TO BODY NO. 2 HARNESS |
| 63A | – | TO BODY NO. 2 HARNESS |
| 64A | – | TO BODY NO. 2 HARNESS |
| 65A | – | TO BODY NO. 2 HARNESS |
| 66A | – | TO BODY NO. 2 HARNESS |
| 67A | – | TO BODY NO. 2 HARNESS |
| 68A | – | TO BODY NO. 2 HARNESS |
| 69A | Y/R | TO BODY NO. 2 HARNESS |
| 70A | R/G | TO BODY NO. 2 HARNESS |
| 71A | – | TO BODY NO. 2 HARNESS |
| 72A | W | TO BODY NO. 2 HARNESS |
| 73A | G | TO BODY NO. 2 HARNESS |
| 74A | W | TO BODY NO. 2 HARNESS |
| 75A | SHIELD | TO BODY NO. 2 HARNESS |
| 76A | R | TO BODY NO. 2 HARNESS |
| 77A | L | TO BODY NO. 2 HARNESS |
| 78A | SHIELD | TO BODY NO. 2 HARNESS |
| 79A | GR | TO BODY NO. 2 HARNESS |
| 80A | V | TO BODY NO. 2 HARNESS |
| 81A | R | TO BODY NO. 2 HARNESS |
| 82A | SHIELD | TO BODY NO. 2 HARNESS |
| 83A | R | TO BODY NO. 2 HARNESS |
| 84A | O | TO BODY NO. 2 HARNESS |
| 85A | SHIELD | TO BODY NO. 2 HARNESS |
| 86A | W | TO BODY NO. 2 HARNESS |
| 87A | B | TO BODY NO. 2 HARNESS |
| 88A | W | TO BODY NO. 2 HARNESS |
| 89A | SHIELD | TO BODY NO. 2 HARNESS |
| 90A | G | TO BODY NO. 2 HARNESS |
| 91A | W/L | TO BODY NO. 2 HARNESS |
| 92A | BR | TO BODY NO. 2 HARNESS |
| 93A | L/Y | TO BODY NO. 2 HARNESS |
| 94A | R/L | TO BODY NO. 2 HARNESS |
| 95A | BR | TO BODY NO. 2 HARNESS |
| 96A | R | TO BODY NO. 2 HARNESS |
| 97A | LG | TO BODY NO. 2 HARNESS |
| 98A | B/V | TO BODY NO. 2 HARNESS |
| 99A | O/L | TO BODY NO. 2 HARNESS |
| 100A | BR/W | TO BODY NO. 2 HARNESS |

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AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M40 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1J | G | TO BODY HARNESS |
| 2J | R/Y | TO BODY HARNESS |
| 3J | L | TO BODY HARNESS |
| 4J | L/B | TO BODY HARNESS |
| 5J | B | TO BODY HARNESS |
| 6J | BR | TO BODY HARNESS |
| 7J | BG | TO BODY HARNESS |
| 8J | SB | TO BODY HARNESS |
| 9J | BR | TO BODY HARNESS |
| 10J | R | TO BODY HARNESS |
| 11J | O/B | TO BODY HARNESS |
| 12J | L | TO BODY HARNESS |
| 13J | W | TO BODY HARNESS |
| 14J | Y | TO BODY HARNESS |
| 15J | – | TO BODY HARNESS |
| 16J | R | TO BODY HARNESS |
| 17J | G | TO BODY HARNESS |
| 18J | SB | TO BODY HARNESS |
| 19J | O | TO BODY HARNESS |
| 20J | O/B | TO BODY HARNESS |
| 21J | Y | TO BODY HARNESS |
| 22J | P | TO BODY HARNESS |
| 23J | W | TO BODY HARNESS |
| 24J | W/R | TO BODY HARNESS |
| 25J | P | TO BODY HARNESS |
| 26J | L | TO BODY HARNESS |
| 27J | R | TO BODY HARNESS |
| 28J | L | TO BODY HARNESS |
| 29J | G/O | TO BODY HARNESS |
| 30J | SB | TO BODY HARNESS |
| 31J | L/G | TO BODY HARNESS |
| 32J | R | TO BODY HARNESS |
| 33J | BG | TO BODY HARNESS |
| 34J | Y | TO BODY HARNESS |
| 35J | P | TO BODY HARNESS |
| 36J | G/R | TO BODY HARNESS |
| 37J | LG | TO BODY HARNESS |
| 38J | SB | TO BODY HARNESS |
| 39J | Y | TO BODY HARNESS |
| 40J | SB | TO BODY HARNESS |
| 41J | L | TO BODY HARNESS |
| 42J | L | TO BODY HARNESS |
| 43J | W | TO BODY HARNESS |
| 44J | BR | TO BODY HARNESS |
| 45J | BG | TO BODY HARNESS |
| 46J | P | TO BODY HARNESS |
| 47J | O | TO BODY HARNESS |
| 48J | V | TO BODY HARNESS |
| 49J | BR | TO BODY HARNESS |
| 50J | G/W | TO BODY HARNESS |
| 51J | – | TO BODY HARNESS |
| 52J | SHIELD | TO BODY HARNESS |
| 53J | R | TO BODY HARNESS |
| 54J | L | TO BODY HARNESS |
| 55J | R | TO BODY HARNESS |
| 56J | W | TO BODY HARNESS |
| 57J | R | TO BODY HARNESS |
| 58J | B | TO BODY HARNESS |
| 59J | – | TO BODY HARNESS |
| 60J | SHIELD | TO BODY HARNESS |
| 61J | G | TO BODY HARNESS |
| 62J | – | TO BODY HARNESS |
| 63J | R/W | TO BODY HARNESS |
| 64J | L/W | TO BODY HARNESS |
| 65J | SHIELD | TO BODY HARNESS |
| 66J | B | TO BODY HARNESS |
| 67J | SHIELD | TO BODY HARNESS |
| 68J | W | TO BODY HARNESS |
| 69J | SHIELD | TO BODY HARNESS |
| 70J | B/R | TO BODY HARNESS |
| 71J | L/W | TO BODY HARNESS |
| 72J | – | TO BODY HARNESS |
| 73J | – | TO BODY HARNESS |
| 74J | SHIELD | TO BODY HARNESS |
| 75J | R | TO BODY HARNESS |
| 76J | O | TO BODY HARNESS |
| 77J | SHIELD | TO BODY HARNESS |
| 78J | W | TO BODY HARNESS |
| 79J | B | TO BODY HARNESS |
| 80J | W | TO BODY HARNESS |
| 81J | SHIELD | TO BODY HARNESS |
| 82J | L/R | TO BODY HARNESS |
| 83J | – | TO BODY HARNESS |
| 84J | – | TO BODY HARNESS |
| 85J | W | TO BODY HARNESS |
| 86J | G | TO BODY HARNESS |
| 87J | W | TO BODY HARNESS |
| 88J | SHIELD | TO BODY HARNESS |
| 89J | R | TO BODY HARNESS |
| 90J | L | TO BODY HARNESS |
| 91J | L/B | TO BODY HARNESS |
| 92J | SB | TO BODY HARNESS |
| 93J | B | TO BODY HARNESS |
| 94J | LG | TO BODY HARNESS |
| 95J | L | TO BODY HARNESS |
| 96J | G | TO BODY HARNESS |
| 97J | B/Y | TO BODY HARNESS |
| 98J | L/B | TO BODY HARNESS |
| 99J | W/L | TO BODY HARNESS |
| 100J | Y | TO BODY HARNESS |

| Connector No. | M52 |
|---|---|
| Connector Name | OPTICAL SENSOR |
| Connector Type | TK03FW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | POWER |
| 2 | W/R | SIGNAL |
| 3 | P | SIG GND |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

AALIA5623GB

AUTO LIGHT SYSTEM CONNECTORS

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

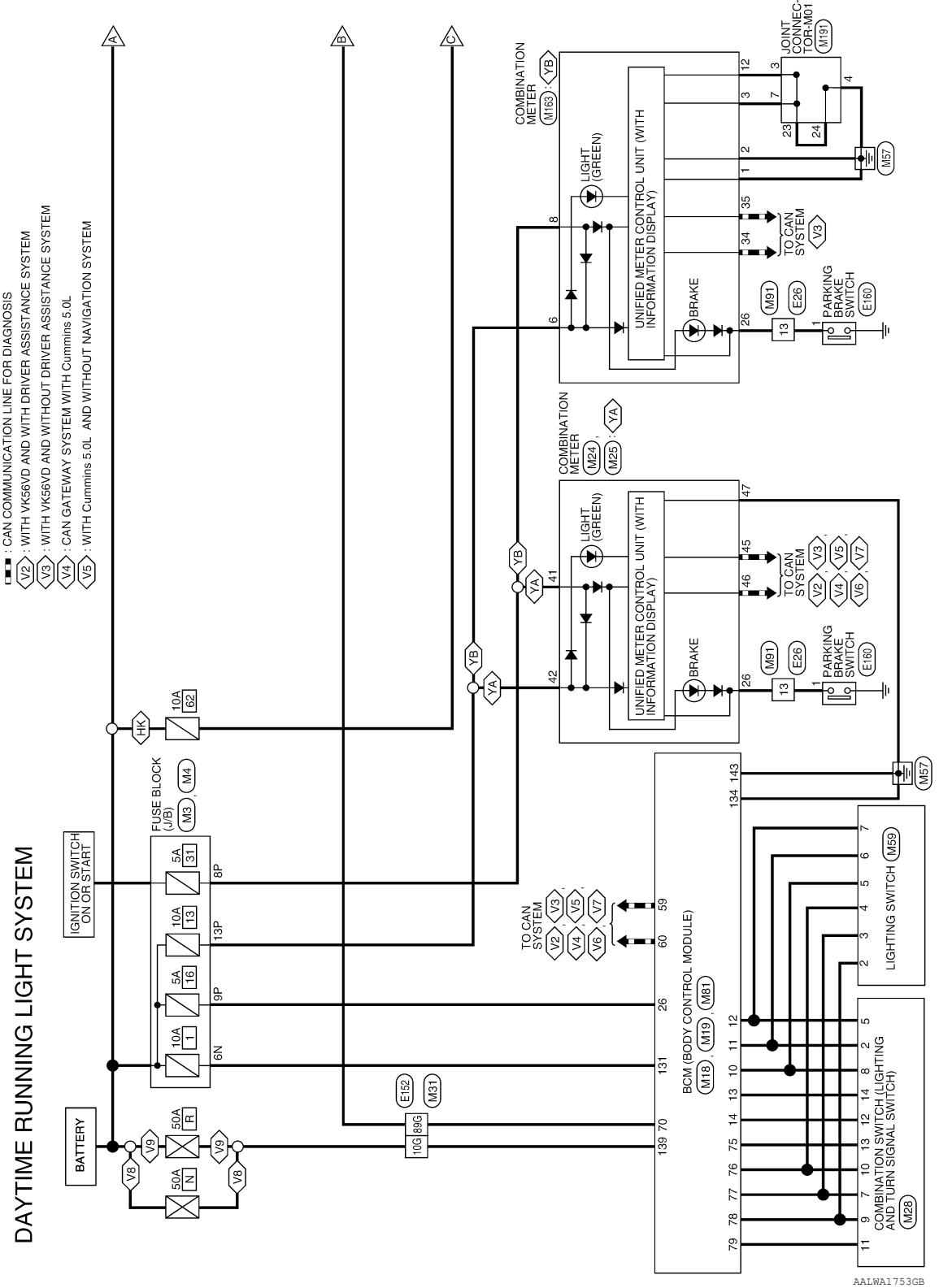
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

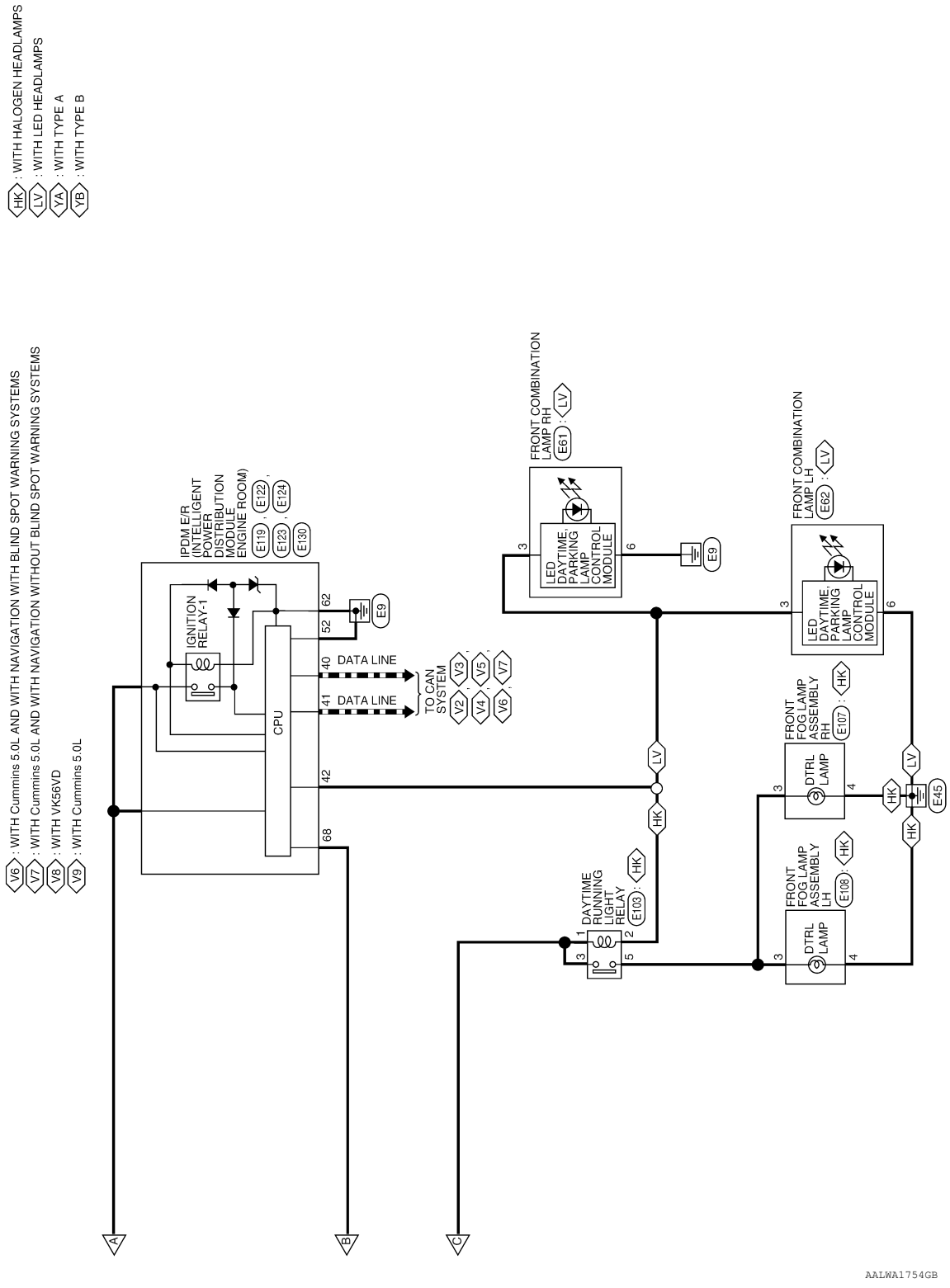
AALIA5624GB

# DAYTIME RUNNING LIGHT SYSTEM

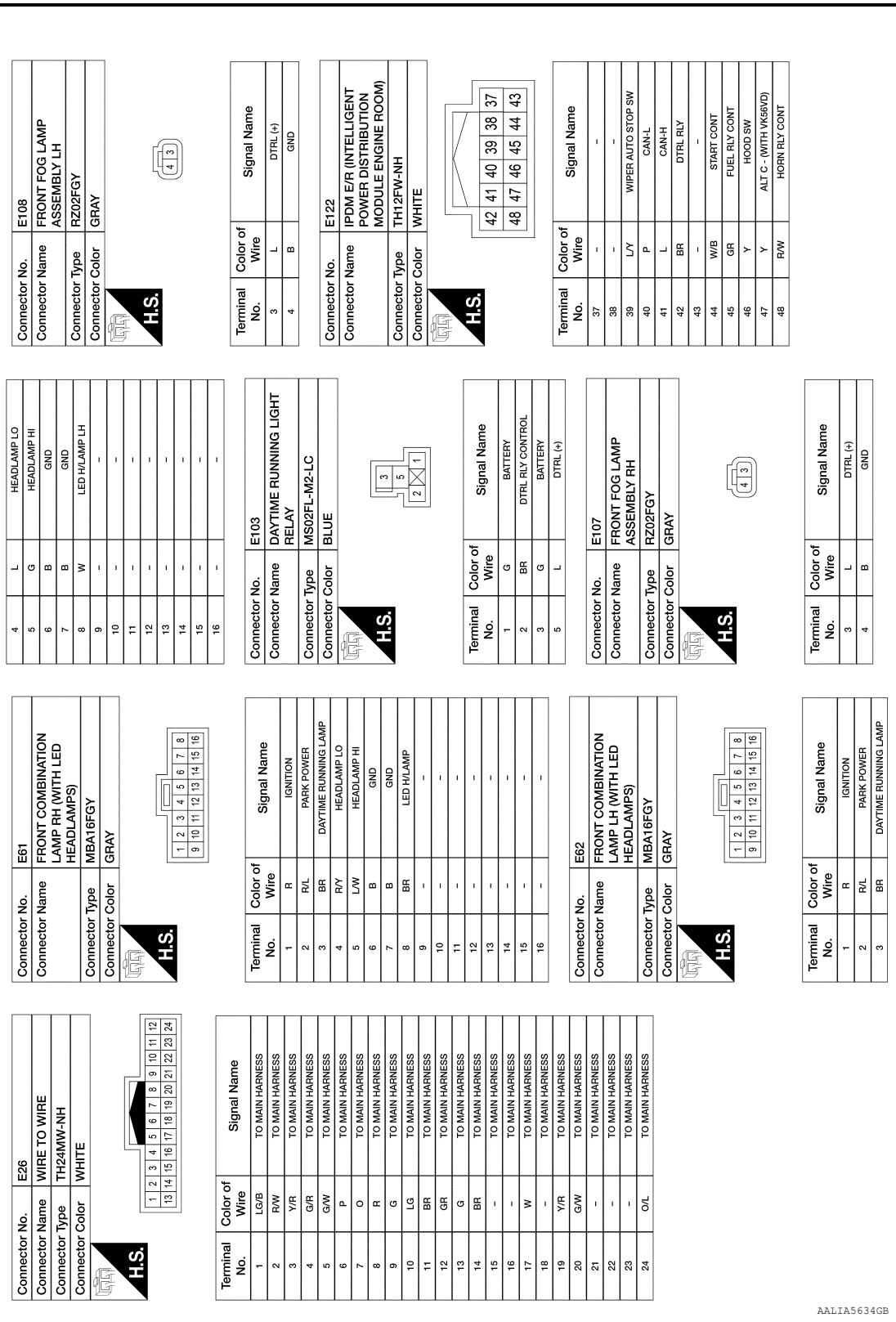
## Wiring Diagram

INFOID:0000000014666262




HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
YA : WITH TYPE A
YB : WITH TYPE B
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E119, E122, E123, E124, E130
IGNITION RELAY-1
CPU
62
52
E9
40 DATA LINE
41 DATA LINE
TO CAN SYSTEM
V3, V5, V7, V2, V4, V6
42
68
A
B
C
FRONT COMBINATION LAMP RH
E61 : LV
LED DAYTIME PARKING LAMP CONTROL MODULE
3
6
E9
FRONT COMBINATION LAMP LH
E62 : LV
LED DAYTIME PARKING LAMP CONTROL MODULE
3
6
LV
HK
DAYTIME RUNNING LIGHT RELAY
E103 : HK
1
2
3
5
FRONT FOG LAMP ASSEMBLY RH
E107 : HK
DTRL LAMP
3
4
HK
LV
E45
FRONT FOG LAMP ASSEMBLY LH
E108 : HK
DTRL LAMP
3
4
AALWA1754GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS



DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.

| 51 | | 50 | 49 |
|---|---|---|---|
| 56 | 55 | 54 | 53 | 52 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | - | - |
| 52 | B | S-GND |
| 53 | - | - |
| 54 | - | - |
| 55 | - | - |
| 56 | - | - |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

| 67 | 66 | 65 | 64 | 63 |
|---|---|---|---|---|
| 72 | 71 | 70 | 69 | 68 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | - | - |
| 64 | R | DETENT SW |
| 65 | - | - |
| 66 | P | PUSH START SW |
| 67 | - | - |
| 68 | L | IGN SIGNAL |
| 69 | - | - |
| 70 | - | - |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| 59 | 58 | 57 |
|---|---|---|
| 62 | 61 | 60 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | B | P GND |

AALIA5635GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | E160 |
|---|---|
| Connector Name | PARKING BRAKE SWITCH |
| Connector Type | P01FB-A |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | PKB SW |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

AALIA5636GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |

| 7 | – | – |
|---|---|---|
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| 43 | – | – |
|---|---|---|
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |

AALIA5637GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M24 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND(STRG/SATELLITE SW GND) |
| 2 | – | – |
| 3 | – | – |
| 4 | – | – |
| 5 | – | – |
| 6 | – | – |
| 7 | V | SECURITY |
| 8 | – | – |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | BR | LED HEAD LAMP (R) |
| 13 | W | LED HEAD LAMP (L) |
| 14 | R | ACC SW |
| 15 | W | OUTSIDE TEMP SENSOR (WITH VK56VD) |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND (WITH VK56VD) |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | – | – |
| 31 | – | – |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | – | – |
| 35 | – | – |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

AALIA5638GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

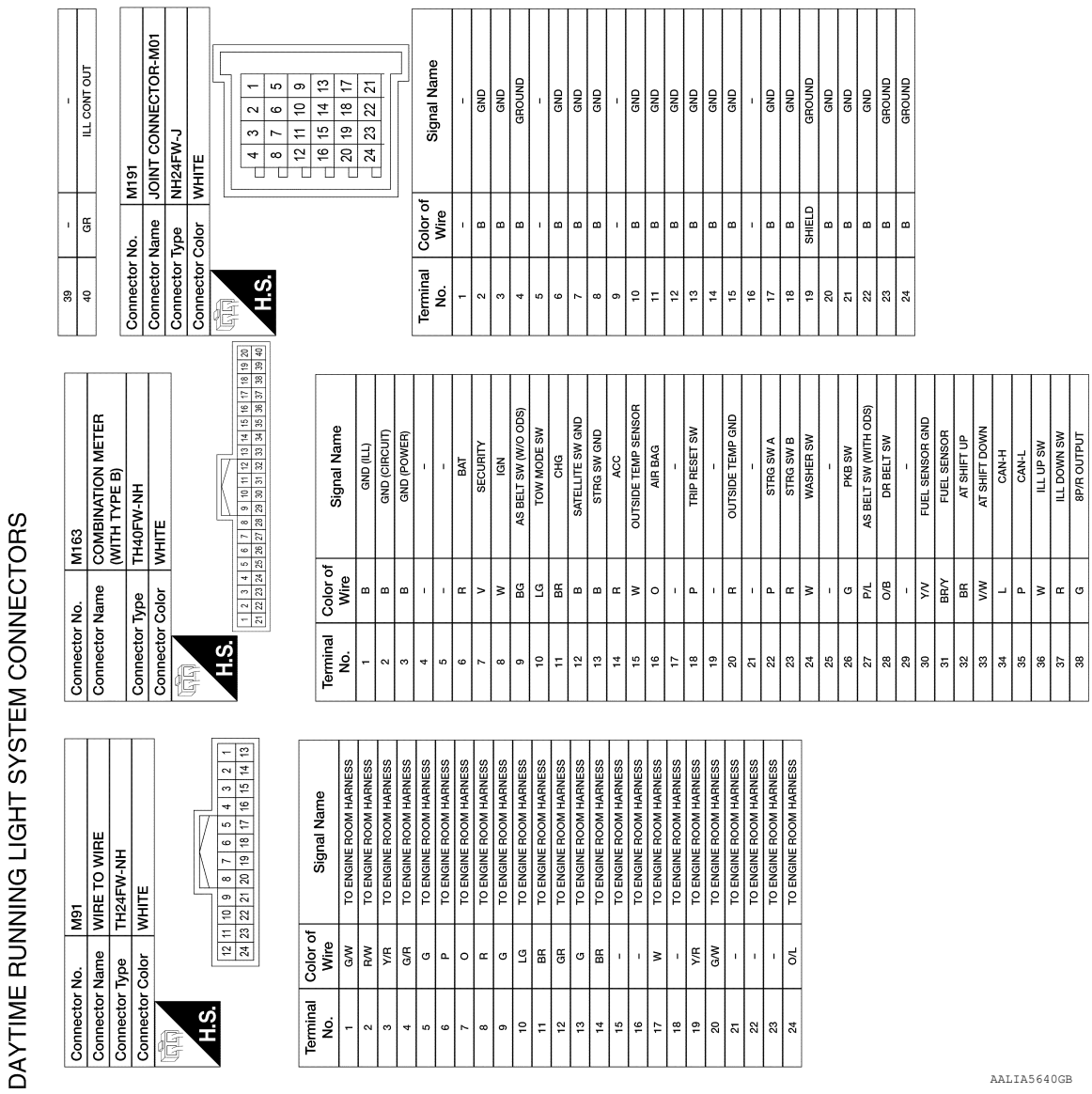
H.S.

| 137 | 136 | 135 | 134 | 133 | 132 | 131 | 130 | 129 |
|---|---|---|---|---|---|---|---|---|
| 143 | 142 | 141 | 140 | 139 | 138 | | | |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | P/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

AALIA5639GB

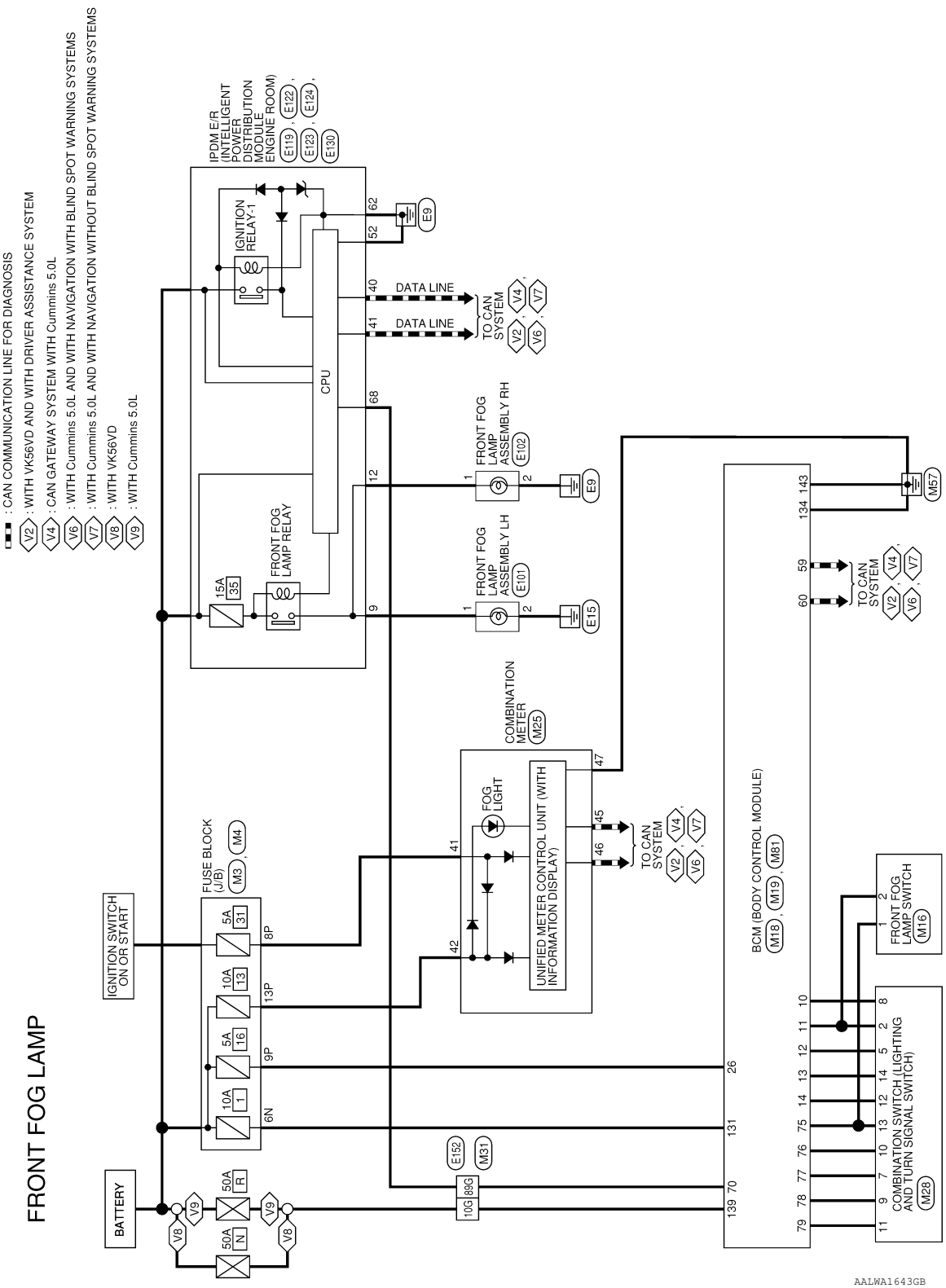
DAYTIME RUNNING LIGHT SYSTEM CONNECTORS



# FRONT FOG LAMP

## Wiring Diagram

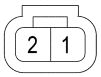
INFOID:0000000014666263



# FRONT FOG LAMP CONNECTORS

| Connector No. | E101 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY LH |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

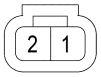
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G/W | FR FOG/L LH |
| 2 | B | GND |

| Connector No. | E102 |
|---|---|
| Connector Name | FRONT FOG LAMP ASSEMBLY RH |
| Connector Type | FHZ02FB |
| Connector Color | BLACK |

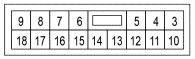
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | FR FOG/L RH |
| 2 | B | GND |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

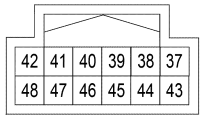
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

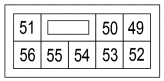
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | – | – |
| 38 | – | – |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | – | – |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | – | – |
| 52 | B | S-GND |
| 53 | – | – |
| 54 | – | – |
| 55 | – | – |
| 56 | – | – |

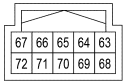
| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 59 | – | – |
| 60 | – | – |
| 61 | – | – |
| 62 | B | P GND |

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

AALIA5641GB

FRONT FOG LAMP CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

| Connector No. | M16 |
|---|---|
| Connector Name | FRONT FOG LAMP SWITCH |
| Connector Type | TK08FW |
| Connector Color | WHITE |

H.S.



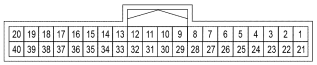

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/W | INPUT 5 |
| 2 | G/Y | OUTPUT 4 |
| 4 | L | ILLUMINATION + |
| 5 | GR | ILLUMINATION - |

AALIA5642GB

# FRONT FOG LAMP CONNECTORS

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

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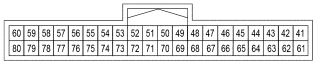
| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

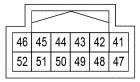
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

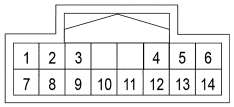
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

FRONT FOG LAMP CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.



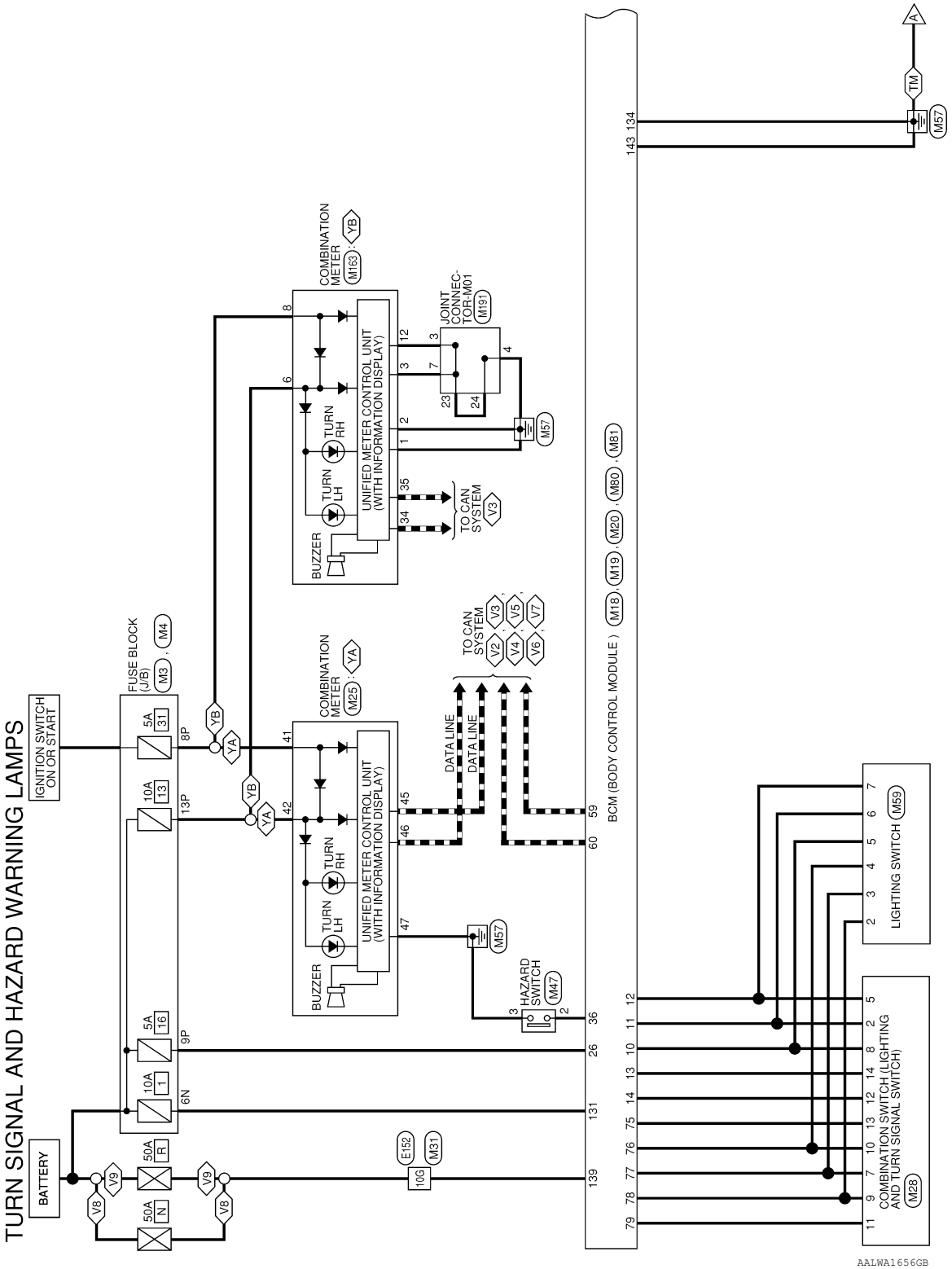

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

AALIA5644GB

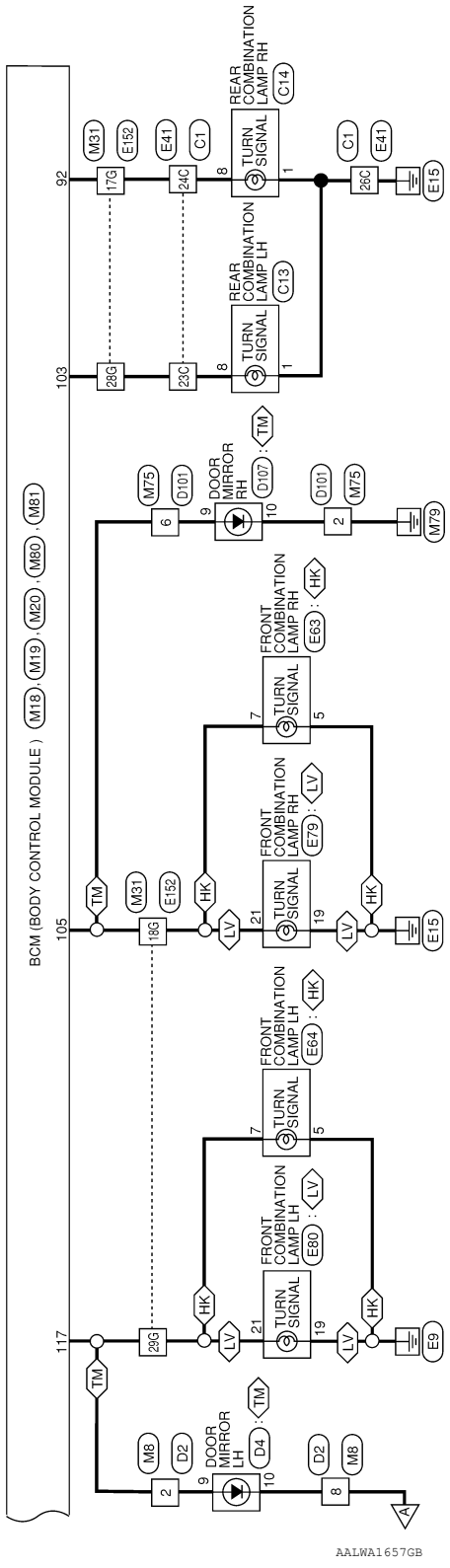
# TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

## Wiring Diagram

INFOID:0000000014666264



: CAN COMMUNICATION LINE FOR DIAGNOSIS
V2 : WITH VK56VD AND WITH DRIVER ASSISTANCE SYSTEM
V3 : WITH VK56VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
V4 : CAN GATEWAY SYSTEM WITH Cummins 5.0L
V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
TM : WITH TURN SIGNAL IN MIRROR
YA : WITH TYPE A
YB : WITH TYPE B



TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.

| 5C | | 4C | 3C | 2C | | 1C |
|---|---|---|---|---|---|---|
| 11C | 10C | 9C | | | 8C | 7C | 6C |
| 21C | 20C | 19C | 18C | 17C | 16C | 15C | 14C | 13C | 12C |
| 31C | 30C | 29C | 28C | 27C | 26C | 25C | 24C | 23C | 22C |
| 41C | 40C | 39C | 38C | 37C | 36C | 35C | 34C | 33C | 32C |
| 47C | 46C | 45C | | | 44C | | 43C | | 42C |
| 52C | | | 51C | 50C | 49C | | | | 48C |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |

| 22C | SHIELD | TO ENGINE ROOM HARNESS |
|---|---|---|
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | D2 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO MAIN HARNESS |
| 2 | G/B | TO MAIN HARNESS |
| 3 | L | TO MAIN HARNESS |
| 4 | R | TO MAIN HARNESS |
| 5 | W/R | TO MAIN HARNESS |
| 6 | W/L | TO MAIN HARNESS |
| 7 | V | TO MAIN HARNESS |
| 8 | B | TO MAIN HARNESS |
| 9 | L/W | TO MAIN HARNESS |
| 10 | L/R | TO MAIN HARNESS |
| 11 | L/W | TO MAIN HARNESS |
| 12 | L | TO MAIN HARNESS |
| 13 | Y | TO MAIN HARNESS |
| 14 | SB | TO MAIN HARNESS |
| 15 | V | TO MAIN HARNESS |
| 16 | LG | TO MAIN HARNESS |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | D4 |
|---|---|
| Connector Name | DOOR MIRROR LH |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | LG | SWITCH MTR UP |
| 2 | Y | SWITCH MOTOR LT (WITHOUT MEMORY MIRRORS) |
| 2 | L | SWITCH MOTOR LT -(WITH MEMORY MIRRORS) |
| 3 | BG | MOTOR COMMON |
| 4 | G/L | POWERFOLD UNFOLD+ -(WITH MEMORY MIRRORS) |
| 5 | GR | POWERFOLD FOLD+ -(WITH MEMORY MIRRORS) |
| 6 | B/W | HEATED MIRROR + |
| 7 | W | VCC |
| 8 | R | VIDEO + |
| 9 | G/B | FRONT TURN LH |
| 10 | B | GND |
| 11 | LG/B | EC FEED |
| 12 | Y/V | EC RETURN |
| 13 | Y | MEMORY GND |
| 14 | SB | MEMORY FEED |
| 15 | V | HOR SENSOR |
| 16 | BG | VER SENSOR |
| 17 | – | – |
| 18 | B | HEATED MIRROR - |
| 19 | B | GND |
| 20 | SHIELD | VIDEO - |
| 21 | R/G | BAT SAVER OUT |
| 22 | L | ROOM LAMP CONT |
| 23 | W | LED LH |
| 24 | B | GND |

| Connector No. | D101 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO MAIN HARNESS |
| 2 | B | TO MAIN HARNESS |
| 3 | W/L | TO MAIN HARNESS |
| 4 | V | TO MAIN HARNESS |
| 5 | W/B | TO MAIN HARNESS |
| 6 | G/Y | TO MAIN HARNESS |
| 7 | W/B | TO MAIN HARNESS |
| 8 | L/B | TO MAIN HARNESS |
| 9 | G/Y | TO MAIN HARNESS |
| 10 | – | TO MAIN HARNESS |

| Connector No. | D107 |
|---|---|
| Connector Name | DOOR MIRROR RH |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |

H.S.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | BR | SWITCH MTR UP |
| 2 | G | SWITCH MTR LT |
| 3 | SB | MTR COMMON |
| 4 | L/R | POWERFOLD UNFOLD+ |
| 5 | L | POWERFOLD FOLD+ |
| 6 | B/W | HEATED MIRROR + |
| 7 | B | VCC |
| 8 | R | VIDEO + |
| 9 | G/Y | FR TURN RH |
| 10 | B | GND |
| 11 | LG/B | EC FEED |
| 12 | Y/V | EC RETURN |
| 13 | L | MEMORY GND |
| 14 | V | MEMORY FEED |
| 15 | Y | HOR SENSOR |
| 16 | BR | VER SENSOR |
| 17 | – | – |
| 18 | B | MEMORY GND |
| 19 | W | GND |
| 20 | R/G | VIDEO - |
| 21 | L | BAT SAVER OUT |
| 22 | R | ROOM LAMP CONT |
| 23 | B | LED RH |
| 24 | B | GND |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |

| 22C | SHIELD | TO CHASSIS HARNESS |
|---|---|---|
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 52C | V/W | TO CHASSIS HARNESS |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |

| Connector No. | E63 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/Y | FR FLASHER |

| Connector No. | E64 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/B | FL FLASHER |

| Connector No. | E79 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 19 | B | GND |
| 20 | – | – |
| 21 | G/Y | FR FLASHER |

| Connector No. | E80 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 19 | B | GND |
| 20 | – | – |
| 21 | G/B | FL FLASHER |

AALIA5674GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

H.S.

3N 2N 1N
8N 7N 6N 5N 4N

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M8 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO FRONT DOOR LH HARNESS |
| 2 | G/B | TO FRONT DOOR LH HARNESS |
| 3 | L | TO FRONT DOOR LH HARNESS |
| 4 | R | TO FRONT DOOR LH HARNESS |
| 5 | W/R | TO FRONT DOOR LH HARNESS |
| 6 | W/L | TO FRONT DOOR LH HARNESS |
| 7 | V | TO FRONT DOOR LH HARNESS |
| 8 | B | TO FRONT DOOR LH HARNESS |
| 9 | L/W | TO FRONT DOOR LH HARNESS |
| 10 | L/R | TO FRONT DOOR LH HARNESS |
| 11 | L/W | TO FRONT DOOR LH HARNESS |
| 12 | L | TO FRONT DOOR LH HARNESS |
| 13 | Y | TO FRONT DOOR LH HARNESS |
| 14 | SB | TO FRONT DOOR LH HARNESS |
| 15 | V | TO FRONT DOOR LH HARNESS |
| 16 | LG | TO FRONT DOOR LH HARNESS |

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | – |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |
| 41 | – | – |
| 42 | – | – |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

H.S.

| 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80 | 79 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 66 | 65 | 64 | 63 | 62 | 61 |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 81 | – | – |
| 82 | W | RL DOOR SW |
| 83 | – | – |
| 84 | – | – |
| 85 | – | – |
| 86 | G/B | TRAILER FLASHER RL |
| 87 | Y/B | TRAILER FLASHER RR |
| 88 | – | – |
| 89 | – | – |
| 90 | – | – |
| 91 | – | – |
| 92 | O | RR FLASHER |
| 93 | R | RR DOOR SW |
| 94 | G | AS DOOR SW |
| 95 | – | – |
| 96 | B/G | DR DOOR SW |
| 97 | P/L | CARGO LAMP SW |
| 98 | – | – |
| 99 | – | – |
| 100 | – | – |
| 101 | – | – |
| 102 | – | – |
| 103 | G/B | RL FLASHER |
| 104 | – | – |

| Connector No. | M20 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FGY-NH |
| Connector Color | GRAY |

H.S.

| 92 | 91 | 90 | 89 | 88 | 87 | 86 | 85 | 84 | 83 | 82 | 81 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 |

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TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M47 |
|---|---|
| Connector Name | HAZARD SWITCH |
| Connector Type | TH04FW-NH |
| Connector Color | WHITE |

H.S.



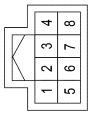

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/B | ILLUMINATION - |
| 2 | W/B | HAZARD SW |
| 3 | B | GND |
| 4 | GR | ILLUMINATION + |

AALIA5677GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

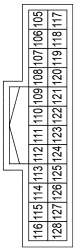
| Connector No. | M75 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS10MW-CS |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B/W | TO FRONT DOOR RH HARNESS |
| 2 | B | TO FRONT DOOR RH HARNESS |
| 3 | W/L | TO FRONT DOOR RH HARNESS |
| 4 | V | TO FRONT DOOR RH HARNESS |
| 5 | W/B | TO FRONT DOOR RH HARNESS |
| 6 | G/Y | TO FRONT DOOR RH HARNESS |
| 7 | W/B | TO FRONT DOOR RH HARNESS |
| 8 | L/B | TO FRONT DOOR RH HARNESS |
| 9 | G/Y | TO FRONT DOOR RH HARNESS |
| 10 | – | TO FRONT DOOR RH HARNESS |

| Connector No. | M80 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH24FB-NH |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 105 | G/Y | FR FLASHER |
| 106 | – | – |
| 107 | W | LOW SIDE START SW LED |
| 108 | L/R | SHIFT LOCK SOLENOID OUT |
| 109 | – | – |
| 110 | – | – |
| 111 | P | ACC LED |
| 112 | – | – |
| 113 | L | ACC RELAY OUT |
| 114 | W | AS DOOR ANT A |
| 115 | BG | AS DOOR ANT B |
| 116 | W | ROOM ANT 2 A |
| 117 | G/B | FL FLASHER |
| 118 | – | – |
| 119 | R | RF NIMOCO |
| 120 | – | – |
| 121 | G | DR DOOR ANT B |
| 122 | P | DR DOOR ANT A |
| 123 | W | ROOM ANT 1 A |
| 124 | G | ROOM ANT 1 B |
| 125 | – | – |
| 126 | P | IMMO START BUTTON ANT B |
| 127 | BG | IMMO START BUTTON ANT A |
| 128 | B | ROOM ANT 2 B |

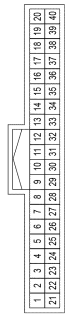
| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | – | – |
| 5 | – | – |
| 6 | R | BAT |

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 7 | V | SECURITY |
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | GR | ILL CONT OUT |

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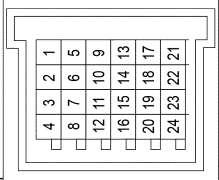
TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

| | |
|---|---|
| Connector No. | M191 |
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.



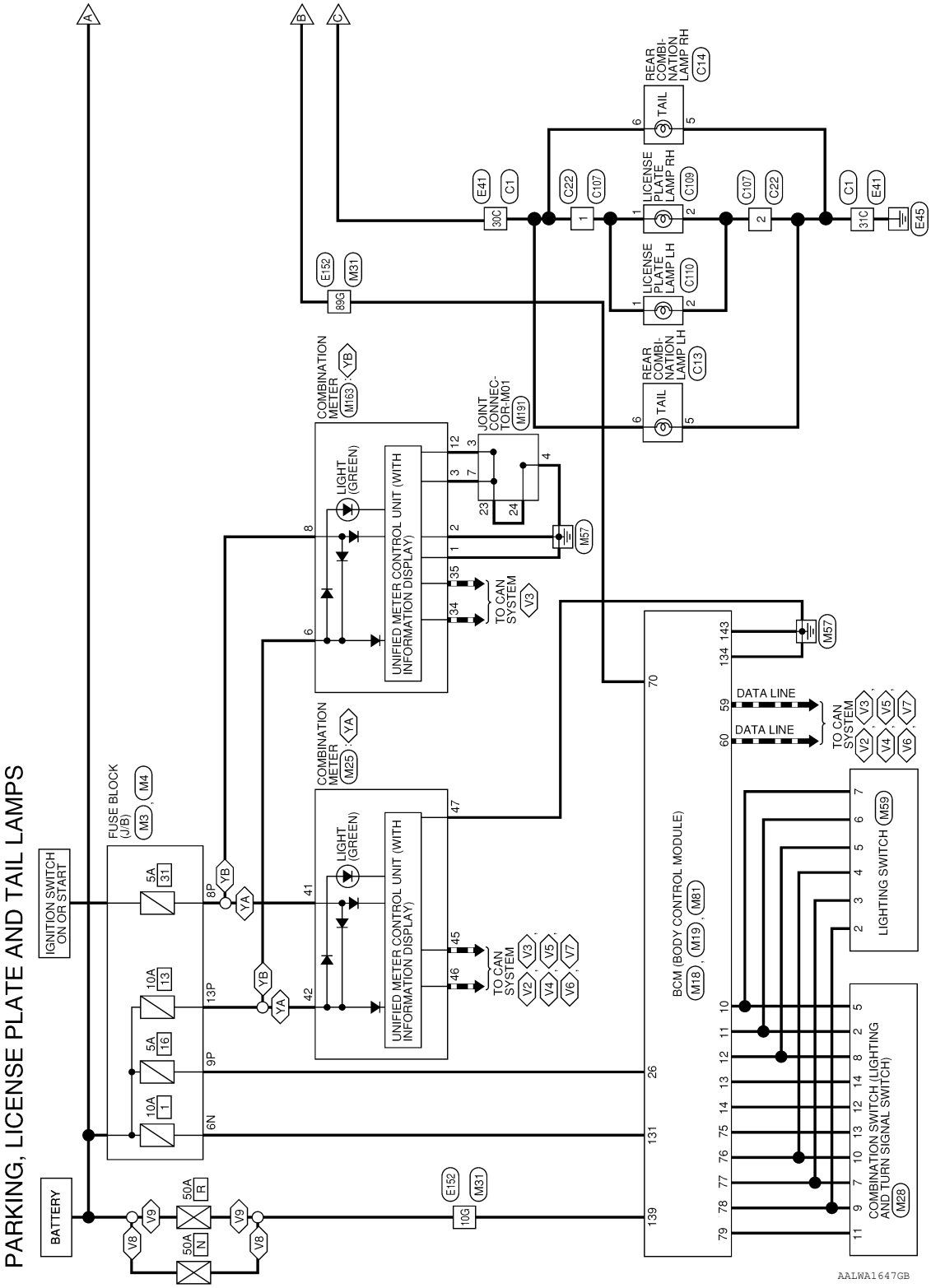

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

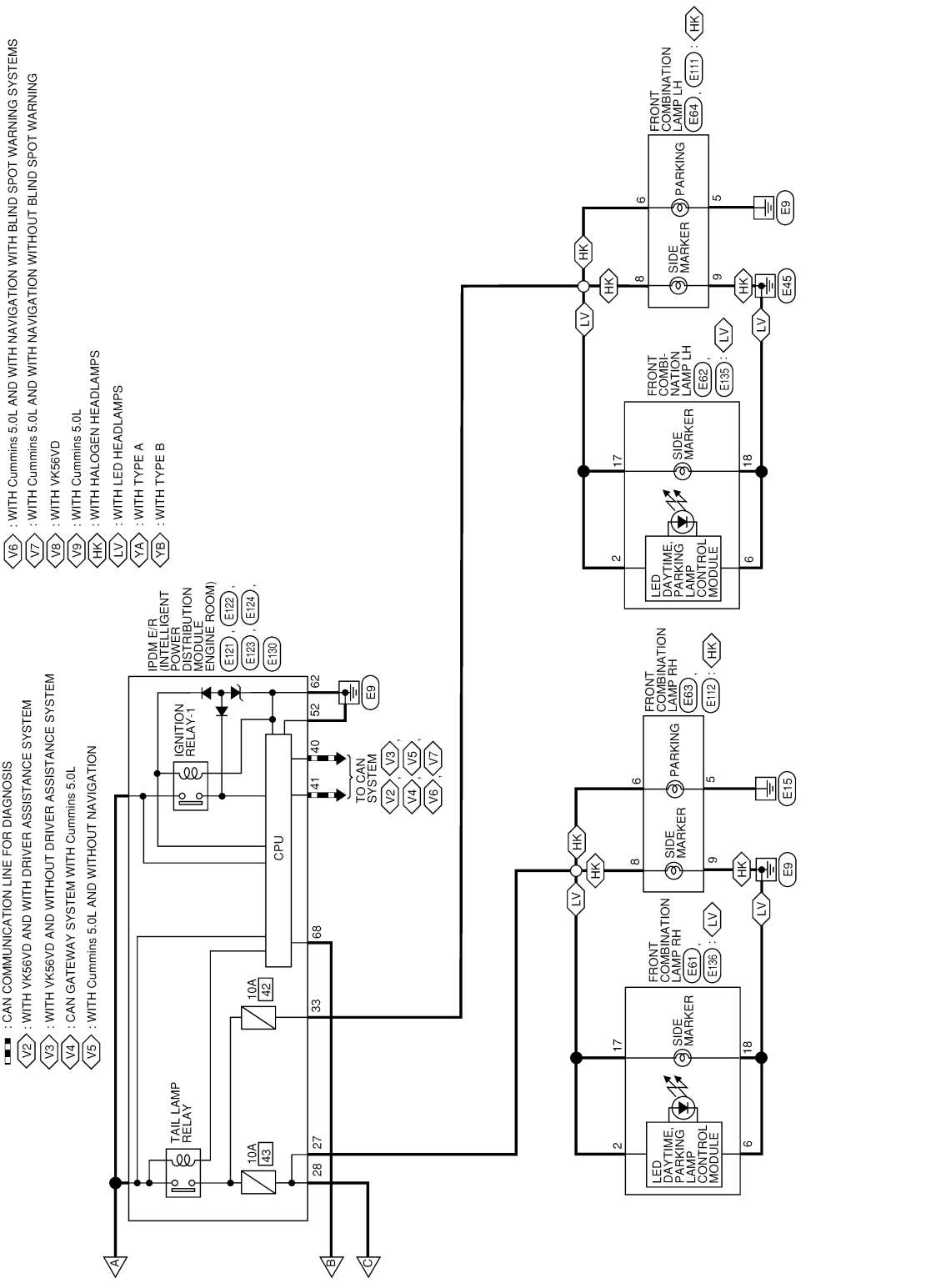
AALIA5679GB

# PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

## Wiring Diagram

INFOID:0000000014666265




: CAN COMMUNICATION LINE FOR DIAGNOSIS
V2 : WITH VK56VD AND WITH DRIVER ASSISTANCE SYSTEM
V3 : WITH VK56VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
V4 : CAN GATEWAY SYSTEM WITH Cummins 5.0L
V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
V6 : WITH Cummins 5.0L AND WITH NAVIGATION WITH BLIND SPOT WARNING SYSTEMS
V7 : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L
HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS
YA : WITH TYPE A
YB : WITH TYPE B
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E122, E124, E121, E123, E130
IGNITION RELAY-1
CPU
TO CAN SYSTEM
TAIL LAMP RELAY
10A 42
10A 43
FRONT COMBINATION LAMP LH
E64, E111
FRONT COMBI-NATION LAMP LH
E62, E135
FRONT COMBINATION LAMP RH
E63, E112
FRONT COMBINATION LAMP RH
E61, E136
SIDE MARKER
PARKING
LED DAYTIME, PARKING LAMP CONTROL MODULE
E9
E45
E15
A
B
C
AALWA1648GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | C22 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | W02FW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TO CHASSIS SUB HARNESS |
| 2 | B | TO CHASSIS SUB HARNESS |

| Connector No. | C107 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | W02MW |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TO CHASSIS HARNESS |
| 2 | B | TO CHASSIS HARNESS |

| Connector No. | C109 |
|---|---|
| Connector Name | LICENSE PLATE LAMP RH |
| Connector Type | RH02FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TAIL LAMP RELAY |
| 2 | B | GROUND |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | C110 |
|---|---|
| Connector Name | LICENSE PLATE LAMP LH |
| Connector Type | RH02FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/L | TAIL LAMP RELAY |
| 2 | B | GROUND |

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |

| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
|---|---|---|
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E61 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | R/Y | HEADLAMP LO |
| 5 | L/W | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | BR | LED H/LAMP |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E62 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | MBA16FGY |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R | IGNITION |
| 2 | R/L | PARK POWER |
| 3 | BR | DAYTIME RUNNING LAMP |
| 4 | L | HEADLAMP LO |
| 5 | G | HEADLAMP HI |
| 6 | B | GND |
| 7 | B | GND |
| 8 | W | LED H/LAMP LH |
| 9 | – | – |
| 10 | – | – |
| 11 | – | – |
| 12 | – | – |
| 13 | – | – |
| 14 | – | – |
| 15 | – | – |
| 16 | – | – |

| Connector No. | E63 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/Y | FR FLASHER |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | E64 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | AB03FY |
| Connector Color | YELLOW |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 5 | B | GND |
| 6 | R/L | PARKING |
| 7 | G/B | FL FLASHER |

| Connector No. | E111 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 8 | R/L | SIDE MARKER |
| 9 | B | GND |

| Connector No. | E112 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 8 | R/L | SIDE MARKER |
| 9 | B | GND |

| Connector No. | E121 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS12FBR-CS |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 25 | BR | ECM VB - (WITH CUMMINS 5.0L) |
| 25 | W | ECM VB - (WITH VK56VD) |
| 26 | V | O2 SENS - (WITH VK56VD) |
| 27 | R/L | PARKING RH |
| 28 | R/L | TAIL 1 |
| 29 | Y | FR WIPER HI |
| 30 | - | - |
| 31 | L | ECM RLY CONT |
| 32 | L | ECM BAT - (WITH VK56VD) |
| 33 | R/L | PARKING LH |
| 34 | R/W | TAIL 2 |
| 35 | BR | FR WIPER LO |
| 36 | - | - |

| Connector No. | E122 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 37 | - | - |
| 38 | - | - |
| 39 | L/Y | WIPER AUTO STOP SW |
| 40 | P | CAN-L |
| 41 | L | CAN-H |
| 42 | BR | DTRL RLY |
| 43 | - | - |
| 44 | W/B | START CONT |
| 45 | GR | FUEL RLY CONT |
| 46 | Y | HOOD SW |
| 47 | Y | ALT C - (WITH VK56VD) |
| 48 | R/W | HORN RLY CONT |

| Connector No. | E123 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS08FBR-CS |
| Connector Color | BROWN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 49 | Y/B | A/C COMP - (WITH CUMMINS 5.0L) |
| 49 | GR/R | A/C COMP - (WITH VK56VD) |
| 50 | BR | TRAILER TOW |
| 51 | - | - |
| 52 | B | S-GND |
| 53 | - | - |
| 54 | - | - |

| 55 | - | - |
|---|---|---|
| 56 | - | - |

| Connector No. | E124 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | M06FB-LC |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 57 | W/B | RR DEF |
| 58 | BR | FUEL PUMP - (WITH CUMMINS 5.0L) |
| 58 | B/Y | FUEL PUMP - (WITH VK56VD) |
| 59 | - | - |
| 60 | - | - |
| 61 | - | - |
| 62 | B | P GND |

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | E130 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | TH10FB-NH |
| Connector Color | BLACK |

H.S.

67 66 65 64 63
72 71 70 69 68

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 63 | – | – |
| 64 | R | DETENT SW |
| 65 | – | – |
| 66 | P | PUSH START SW |
| 67 | – | – |
| 68 | L | IGN SIGNAL |
| 69 | – | – |
| 70 | – | – |
| 71 | SB | HOOD SW2 |
| 72 | W | E-CPLG - (WITH VK56VD) |

| Connector No. | E135 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

17
18

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 17 | R/L | RLY POWER |
| 18 | B | GND |

| Connector No. | E136 |
|---|---|
| Connector Name | FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS) |
| Connector Type | RK02FBR |
| Connector Color | BROWN |

H.S.

17
18

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 17 | R/L | RLY POWER |
| 18 | B | GND |

| Connector No. | E152 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.

5G 4G 3G 2G 1G
10G 9G 8G 7G 6G

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |

| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
|---|---|---|
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |

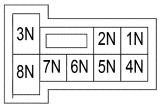
| 54G | W | TO MAIN HARNESS |
|---|---|---|
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

AALIA5664GB

# PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | M3 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | CS06FW-M2 |
| Connector Color | WHITE |

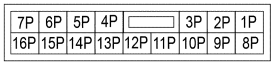
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1N | – | – |
| 2N | W | BATTERY |
| 3N | W | BLOWER FAN RELAY OUT |
| 4N | V | BATTERY |
| 5N | Y | BATTERY |
| 6N | W | BATTERY |
| 7N | L | ACC RELAY OUT |
| 8N | W | IGNITION |

| Connector No. | M4 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.

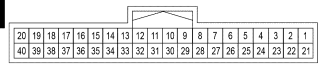



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1P | R | IGNITION |
| 2P | Y | IGNITION |
| 3P | G | IGNITION RELAY OUT |
| 4P | B/W | RR DEF RLY |
| 5P | B/W | RR DEF RLY |
| 6P | O | RR DEF RLY OUT |
| 7P | G | IGNITION |
| 8P | W | IGNITION |
| 9P | L | BATTERY |
| 10P | – | – |
| 11P | – | – |
| 12P | – | – |
| 13P | R | BATTERY |
| 14P | Y | BATTERY |
| 15P | Y/LG | BATTERY |
| 16P | W | BLOWER FAN RELAY OUT |

AALIA5665GB

| Connector No. | M18 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FG-NH |
| Connector Color | GREEN |

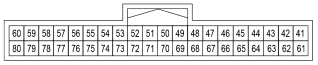
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | ENG START SW NO ESCL |
| 2 | – | – |
| 3 | R | A/L POWER SUPPLY 5V |
| 4 | W/R | A/L SIGNAL |
| 5 | – | – |
| 6 | – | – |
| 7 | – | – |
| 8 | – | – |
| 9 | – | – |
| 10 | SB | COMBI SW IN 5 |
| 11 | G/Y | COMBI SW IN 4 |
| 12 | Y | COMBI SW IN 3 |
| 13 | G/B | COMBI SW IN 2 |
| 14 | V | COMBI SW IN 1 |
| 15 | – | – |
| 16 | – | – |
| 17 | P | GND RF A/L |
| 18 | V | SECURITY INDICATOR |
| 19 | – | – |
| 20 | R | SHIFT P |
| 21 | R/W | STEP LAMP CONT |
| 22 | – | – |
| 23 | Y | AIRCON SW |
| 24 | – | – |
| 25 | W | BRAKE SW FUSE |
| 26 | L | SHORT IN PIN INPUT |
| 27 | R/G | BRAKE SW LAMP |
| 28 | – | – |
| 29 | W | BLOWER FAN SW |
| 30 | P | DR DOOR LOCK STATUS |
| 31 | – | – |
| 32 | Y | REAR DEFOGGER SW |
| 33 | – | – |
| 34 | – | |
| 35 | R/G | REVERSE SW |
| 36 | W/B | HAZARD SW |
| 37 | – | – |
| 38 | – | – |
| 39 | B/R | SHIFT N/P |
| 40 | – | – |

| Connector No. | M19 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH |
| Connector Color | BLACK |

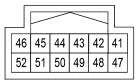
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | Y/L | TRAILER LIGHT CHECK RELAY OUT |
| 42 | R/Y | CARGO LAMP OUT |
| 43 | – | – |
| 44 | – | – |
| 45 | – | – |
| 46 | – | – |
| 47 | – | – |
| 48 | R | HIGH SIDE START SW LED |
| 49 | – | – |
| 50 | – | – |
| 51 | – | – |
| 52 | W | AUDIO DONGLE |
| 53 | – | – |
| 54 | W/L | PW UART |
| 55 | W/B | L&R SENSOR K-LINE |
| 56 | – | – |
| 57 | – | – |
| 58 | – | – |
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | O | REAR DEFOGGER RELAY OUT |
| 62 | W | STARTER RELAY OUT |
| 63 | – | – |
| 64 | P | BUZZER OUT |
| 65 | – | – |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |
| 68 | L | MR OUTPUT |
| 69 | R/B | AT DEVICE OUT |
| 70 | P | IGN USM OUT 1 |
| 71 | O | DR REQUEST SW |
| 72 | G | AS REQUEST SW |
| 73 | – | – |
| 74 | – | – |
| 75 | L/W | COMBI SW OUT 5 |
| 76 | P | COMBI SW OUT 4 |
| 77 | L | COMBI SW OUT 3 |
| 78 | O/B | COMBI SW OUT 2 |
| 79 | R/W | COMBI SW OUT 1 |
| 80 | – | – |

| Connector No. | M25 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE A) |
| Connector Type | TH12FW-NH |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 41 | W | IGN |
| 42 | R | BAT |
| 43 | Y/V | FUEL SENSOR GND |
| 44 | GR | ILL CONT OUTPUT |
| 45 | P | CAN-L |
| 46 | L | CAN-H |
| 47 | B | G1 |
| 48 | BR/Y | FUEL SENSOR |
| 49 | – | – |
| 50 | – | – |
| 51 | LG | M CAN-L |
| 52 | SB | M CAN-H |

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

| Connector No. | M28 |
|---|---|
| Connector Name | COMBINATION SWITCH |
| Connector Type | TH16FW-NH |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | W/R | IGNITION |
| 2 | G/Y | COMBI SW OUTPUT 4 |
| 3 | – | – |
| 4 | – | – |
| 5 | Y | COMBI SW OUTPUT 3 |
| 6 | V/W | FRONT WASHER MOTOR + |
| 7 | L | COMBI SW INPUT 3 |
| 8 | SB | COMBI SW OUTPUT 5 |
| 9 | O/B | COMBI SW INPUT 2 |
| 10 | P | COMBI SW INPUT 4 |
| 11 | R/W | COMBI SW INPUT 1 |
| 12 | V | COMBI SW OUTPUT 1 |
| 13 | L/W | COMBI SW INPUT 5 |
| 14 | G/B | COMBI SW OUTPUT 2 |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M59 |
|---|---|
| Connector Name | LIGHTING SWITCH |
| Connector Type | TH08FG-NH |
| Connector Color | GREEN |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L | ILLUMINATION + |
| 2 | BR | INPUT 2 |
| 3 | Y | INPUT 3 |
| 4 | G | INPUT4 |
| 5 | L | OUTPUT 5 |
| 6 | P | OUTPUT 4 |
| 7 | Y | OUTPUT 3 |
| 8 | GR | ILLUMINATION - |

AALIA5666GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

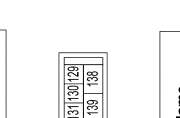
| Connector No. | M81 |
|---|---|
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | FEA09FW-FHA6-SA |
| Connector Color | WHITE |

H.S.

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 129 | R/G | BATTERY SAVER OUT |
| 130 | LG | SUPER LOCK/DOOR UNLOCK AS |
| 131 | W | BAT BCM FUSE |
| 132 | Y | DOOR LOCK AS/RR/RL |
| 133 | BR | DOOR UNLOCK AS/RR/RL |
| 134 | B | GND2 |
| 135 | O | DOOR LOCK DR/AS/FL |
| 136 | L | ROOM LAMP CONT |
| 137 | V | DOOR UNLOCK DR/AS/FL |
| 138 | V | BAT REAR DOOR |
| 139 | W | BAT-POWER F/L |
| 140 | LG | P/W POWER SUPPLY IGN |
| 141 | V | P/W POWER SUPPLY BAT |
| 142 | Y | BAT FRONT DOOR |
| 143 | B | GND1 |

| Connector No. | M163 |
|---|---|
| Connector Name | COMBINATION METER (WITH TYPE B) |
| Connector Type | TH40FW-NH |
| Connector Color | WHITE |

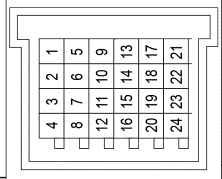
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GND (ILL) |
| 2 | B | GND (CIRCUIT) |
| 3 | B | GND (POWER) |
| 4 | – | – |
| 5 | – | – |
| 6 | R | BAT |
| 7 | V | SECURITY |
| 8 | W | IGN |
| 9 | BG | AS BELT SW (W/O ODS) |
| 10 | LG | TOW MODE SW |
| 11 | BR | CHG |
| 12 | B | SATELLITE SW GND |
| 13 | B | STRG SW GND |
| 14 | R | ACC |
| 15 | W | OUTSIDE TEMP SENSOR |
| 16 | O | AIR BAG |
| 17 | – | – |
| 18 | P | TRIP RESET SW |
| 19 | – | – |
| 20 | R | OUTSIDE TEMP GND |
| 21 | – | – |
| 22 | P | STRG SW A |
| 23 | R | STRG SW B |
| 24 | W | WASHER SW |
| 25 | – | – |
| 26 | G | PKB SW |
| 27 | P/L | AS BELT SW (WITH ODS) |
| 28 | O/B | DR BELT SW |
| 29 | – | – |
| 30 | Y/V | FUEL SENSOR GND |
| 31 | BR/Y | FUEL SENSOR |
| 32 | BR | AT SHIFT UP |
| 33 | V/W | AT SHIFT DOWN |
| 34 | L | CAN-H |
| 35 | P | CAN-L |
| 36 | W | ILL UP SW |
| 37 | R | ILL DOWN SW |
| 38 | G | 8P/R OUTPUT |
| 39 | – | – |
| 40 | GR | ILL CONT OUT |

| Connector No. | M191 |
|---|---|
| Connector Name | JOINT CONNECTOR-M01 |
| Connector Type | NH24FW-J |
| Connector Color | WHITE |

H.S.



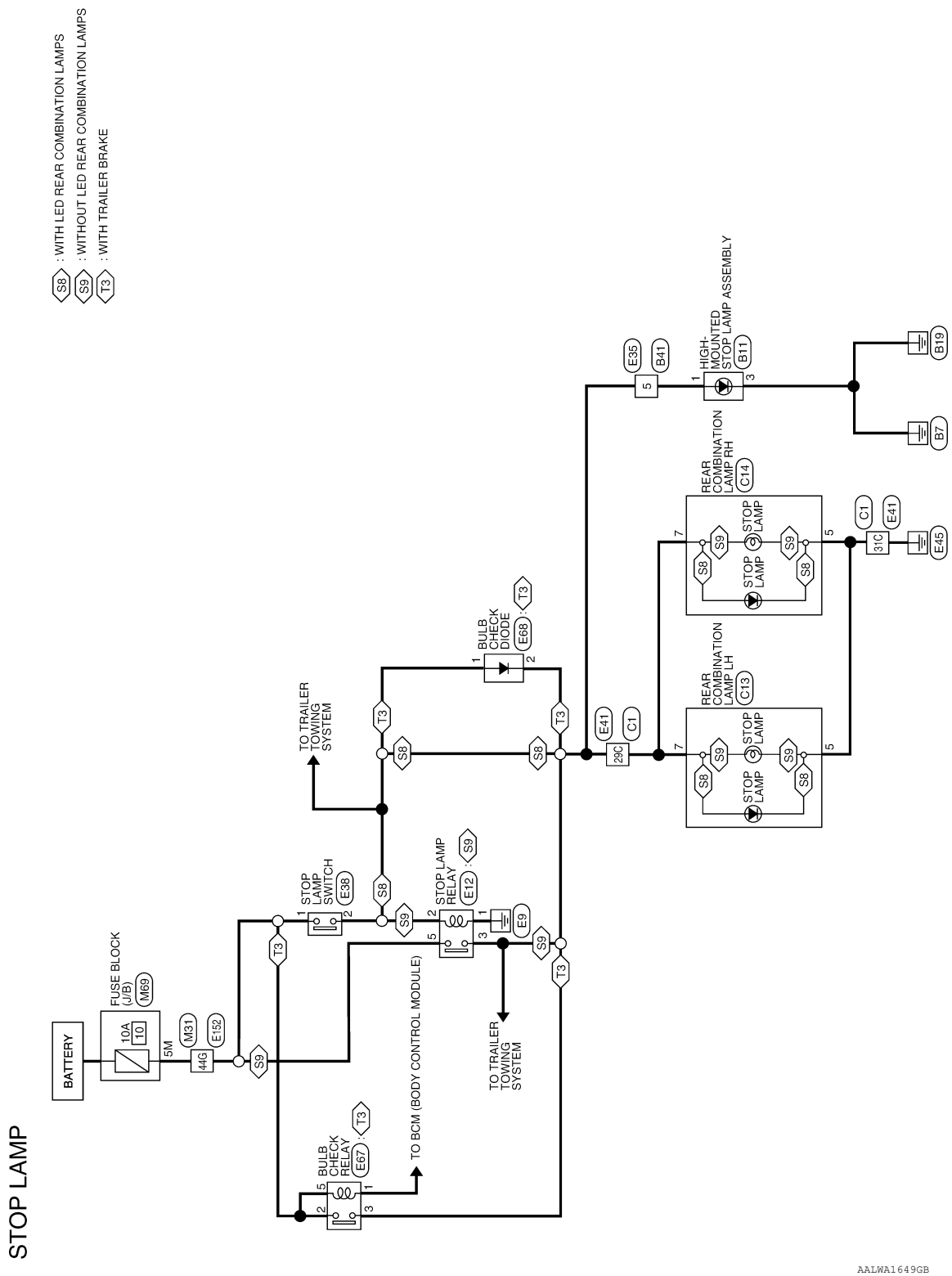

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | – | – |
| 2 | B | GND |
| 3 | B | GND |
| 4 | B | GROUND |
| 5 | – | – |
| 6 | B | GND |
| 7 | B | GND |
| 8 | B | GND |
| 9 | – | – |
| 10 | B | GND |
| 11 | B | GND |
| 12 | B | GND |
| 13 | B | GND |
| 14 | B | GND |
| 15 | B | GND |
| 16 | – | – |
| 17 | B | GND |
| 18 | B | GND |
| 19 | SHIELD | GROUND |
| 20 | B | GND |
| 21 | B | GND |
| 22 | B | GND |
| 23 | B | GROUND |
| 24 | B | GROUND |

AALIA5667GB

# STOP LAMP

## Wiring Diagram

INFOID:0000000014666266

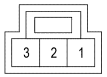



AALWA1649GB

## STOP LAMP CONNECTORS

| Connector No. | B11 |
|---|---|
| Connector Name | HIGH-MOUNTED STOP LAMP ASSEMBLY |
| Connector Type | NS03FW-CS |
| Connector Color | WHITE |

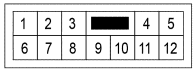
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/G | STOP LAMP |
| 2 | LG | CARGO LAMP |
| 3 | B | GND |

| Connector No. | B41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12MW-CS |
| Connector Color | WHITE |

H.S.

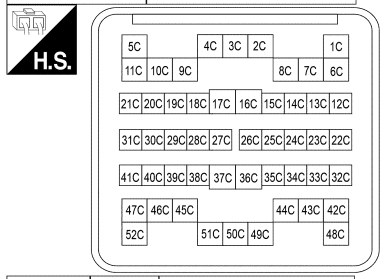



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y | TO ENGINE ROOM HARNESS |
| 2 | V | TO ENGINE ROOM HARNESS |
| 3 | L | TO ENGINE ROOM HARNESS |
| 4 | L/G | TO ENGINE ROOM HARNESS |
| 5 | R/G | TO ENGINE ROOM HARNESS |
| 6 | SB | TO ENGINE ROOM HARNESS |
| 7 | P | TO ENGINE ROOM HARNESS |
| 8 | L | TO ENGINE ROOM HARNESS |
| 9 | SHIELD | TO ENGINE ROOM HARNESS |
| 10 | W/G | TO ENGINE ROOM HARNESS |
| 11 | L | TO ENGINE ROOM HARNESS |
| 12 | BR | TO ENGINE ROOM HARNESS |

AALIA5668GB

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

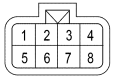
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

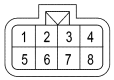
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

STOP LAMP CONNECTORS

| Connector No. | E12 |
|---|---|
| Connector Name | STOP LAMP RELAY |
| Connector Type | MS02FL-M2-LC |
| Connector Color | BLUE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | W | RELAY CONTROL |
| 3 | R/G | STOP LAMPS |
| 5 | R/Y | BATTERY |

| Connector No. | E35 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | NS12FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y | TO BODY HARNESS |
| 2 | V | TO BODY HARNESS |
| 3 | L | TO BODY HARNESS |
| 4 | W | TO BODY HARNESS |
| 5 | R/G | TO BODY HARNESS |
| 6 | SB | TO BODY HARNESS |
| 7 | P | TO BODY HARNESS |
| 8 | L | TO BODY HARNESS |
| 9 | SHIELD | TO BODY HARNESS |
| 10 | B | TO BODY HARNESS |
| 11 | R | TO BODY HARNESS |
| 12 | BR | TO BODY HARNESS |

| Connector No. | E38 |
|---|---|
| Connector Name | STOP LAMP SWITCH |
| Connector Type | M04FW-LC |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/Y | BATTERY |
| 2 | W | RELAY CONT - (WITHOUT LED REAR COMBINATION LAMPS) |
| 2 | R/G | STOP LAMPS - (WITH LED REAR COMBINATION LAMPS) |
| 3 | GR | IGNITION |
| 4 | R/B | STOP 2 |

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E67 |
|---|---|
| Connector Name | BULB CHECK RELAY |
| Connector Type | MS02FL-M2-LC |
| Connector Color | BLUE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y/L | BULB CHECK RLY OUT |
| 2 | R/Y | BATTERY |
| 3 | G/R | STOP LAMPS |
| 5 | R/Y | BATTERY |

| Connector No. | E68 |
|---|---|
| Connector Name | BULB CHECK DIODE |
| Connector Type | 24335_C9900 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | R/G | STOP LAMP |
| 2 | G/R | STOP LAMP |

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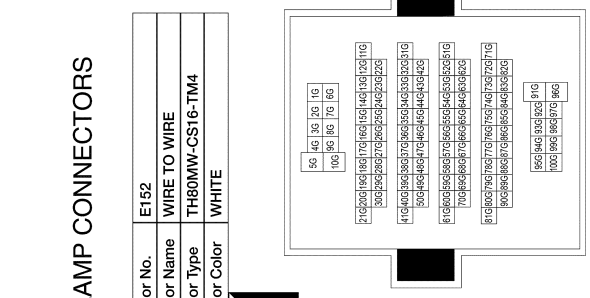
STOP LAMP CONNECTORS

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

AALIA5670GB

STOP LAMP CONNECTORS

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M69 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS |
| Connector Color | WHITE |

H.S.

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

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1M | GR | IGNITION |
| 2M | – | – |
| 3M | – | – |
| 4M | – | – |
| 5M | R/Y | BATTERY |
| 6M | R/W | TAIL LAMP 2 |
| 7M | – | – |
| 8M | – | – |
| 9M | – | – |
| 10M | W/R | IGNITION |

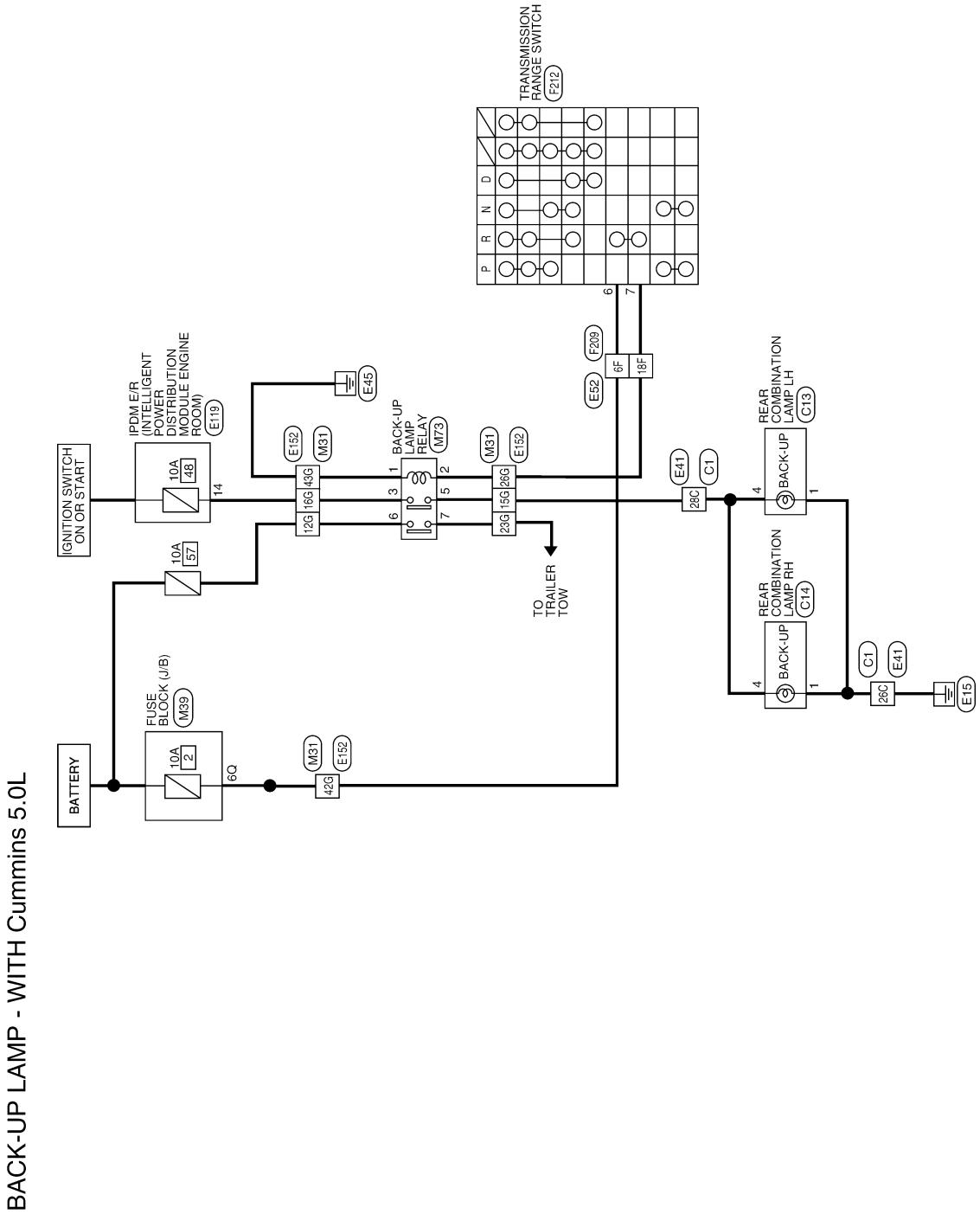
AALIA5671GB

# BACK-UP LAMP

## DIESEL ENGINE MODELS

### DIESEL ENGINE MODELS : Wiring Diagram

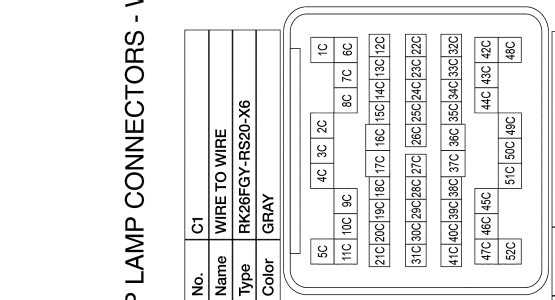
INFOID:0000000014666267



BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

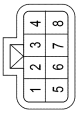
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

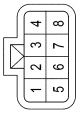
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | P/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

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BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |
| 22C | SHIELD | TO CHASSIS HARNESS |
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

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BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | E52 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 2F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 3F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 4F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 5F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 6F | O | TO ENGINE CONTROL NO. 2 HARNESS |
| 7F | GR/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 8F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 9F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 10F | Y/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 11F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 12F | R | TO ENGINE CONTROL NO. 2 HARNESS |
| 13F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 14F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 15F | SB | TO ENGINE CONTROL NO. 2 HARNESS |
| 16F | P | TO ENGINE CONTROL NO. 2 HARNESS |
| 17F | Y/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 18F | R | TO ENGINE CONTROL NO. 2 HARNESS |
| 19F | V | TO ENGINE CONTROL NO. 2 HARNESS |
| 20F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 21F | L/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 22F | L/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 23F | R/L | TO ENGINE CONTROL NO. 2 HARNESS |
| 24F | W/L | TO ENGINE CONTROL NO. 2 HARNESS |
| 25F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 26F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 27F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 28F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 29F | L/O | TO ENGINE CONTROL NO. 2 HARNESS |
| 30F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 31F | B | TO ENGINE CONTROL NO. 2 HARNESS |
| 32F | V/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 33F | GR | TO ENGINE CONTROL NO. 2 HARNESS |
| 34F | L/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 35F | R/W | TO ENGINE CONTROL NO. 2 HARNESS |
| 36F | L/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 37F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 38F | R/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 39F | R/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 40F | B/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 41F | W | TO ENGINE CONTROL NO. 2 HARNESS |
| 42F | Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 43F | B/P | TO ENGINE CONTROL NO. 2 HARNESS |
| 44F | Y/B | TO ENGINE CONTROL NO. 2 HARNESS |
| 45F | L/Y | TO ENGINE CONTROL NO. 2 HARNESS |
| 46F | O | TO ENGINE CONTROL NO. 2 HARNESS |
| 47F | W/R | TO ENGINE CONTROL NO. 2 HARNESS |
| 48F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 49F | BR | TO ENGINE CONTROL NO. 2 HARNESS |
| 50F | SHIELD | TO ENGINE CONTROL NO. 2 HARNESS |
| 51F | L | TO ENGINE CONTROL NO. 2 HARNESS |
| 52F | BR | TO ENGINE CONTROL NO. 2 HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | - | - |

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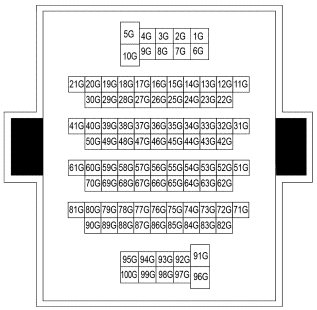
## BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

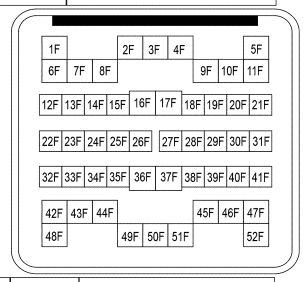
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| Connector No. | F209 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1F | Y/R | TO ENGINE ROOM HARNESS |
| 2F | B | TO ENGINE ROOM HARNESS |
| 3F | B/Y | TO ENGINE ROOM HARNESS |
| 4F | W/R | TO ENGINE ROOM HARNESS |
| 5F | B/R | TO ENGINE ROOM HARNESS |
| 6F | O/L | TO ENGINE ROOM HARNESS |
| 7F | GR | TO ENGINE ROOM HARNESS |
| 8F | P | TO ENGINE ROOM HARNESS |
| 9F | BR/W | TO ENGINE ROOM HARNESS |
| 10F | G/Y | TO ENGINE ROOM HARNESS |
| 11F | L/W | TO ENGINE ROOM HARNESS |
| 12F | R/W | TO ENGINE ROOM HARNESS |
| 13F | G/Y | TO ENGINE ROOM HARNESS |
| 14F | V/W | TO ENGINE ROOM HARNESS |
| 15F | LG | TO ENGINE ROOM HARNESS |
| 16F | R/Y | TO ENGINE ROOM HARNESS |
| 17F | BR/Y | TO ENGINE ROOM HARNESS |
| 18F | R | TO ENGINE ROOM HARNESS |
| 19F | V | TO ENGINE ROOM HARNESS |
| 20F | BR | TO ENGINE ROOM HARNESS |
| 21F | L/R | TO ENGINE ROOM HARNESS |
| 22F | L/LG | TO ENGINE ROOM HARNESS |
| 23F | SB | TO ENGINE ROOM HARNESS |
| 24F | W/L | TO ENGINE ROOM HARNESS |
| 25F | W/B | TO ENGINE ROOM HARNESS |
| 26F | B/Y | TO ENGINE ROOM HARNESS |
| 27F | Y | TO ENGINE ROOM HARNESS |
| 28F | W/R | TO ENGINE ROOM HARNESS |
| 29F | L/O | TO ENGINE ROOM HARNESS |
| 30F | B | TO ENGINE ROOM HARNESS |
| 31F | B | TO ENGINE ROOM HARNESS |
| 32F | V | TO ENGINE ROOM HARNESS |
| 33F | BG | TO ENGINE ROOM HARNESS |
| 34F | L/R | TO ENGINE ROOM HARNESS |
| 35F | R/W | TO ENGINE ROOM HARNESS |
| 36F | L/B | TO ENGINE ROOM HARNESS |
| 37F | L/O | TO ENGINE ROOM HARNESS |
| 38F | Y/W | TO ENGINE ROOM HARNESS |
| 39F | R/Y | TO ENGINE ROOM HARNESS |
| 40F | G/B | TO ENGINE ROOM HARNESS |
| 41F | W | TO ENGINE ROOM HARNESS |
| 42F | Y | TO ENGINE ROOM HARNESS |
| 43F | B/P | TO ENGINE ROOM HARNESS |
| 44F | Y/B | TO ENGINE ROOM HARNESS |
| 45F | L/Y | TO ENGINE ROOM HARNESS |
| 46F | O | TO ENGINE ROOM HARNESS |
| 47F | W/L | TO ENGINE ROOM HARNESS |
| 48F | L | TO ENGINE ROOM HARNESS |
| 49F | BR | TO ENGINE ROOM HARNESS |
| 50F | SHIELD | TO ENGINE ROOM HARNESS |
| 51F | L | TO ENGINE ROOM HARNESS |
| 52F | BR | TO ENGINE ROOM HARNESS |

AALIA5628GB

BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| Connector No. | F212 |
|---|---|
| Connector Name | TRANSMISSION RANGE SWITCH |
| Connector Type | HS10FB |
| Connector Color | BLACK |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/W | RANGE SIGNAL C |
| 2 | P | RANGE SIGNAL B |
| 3 | R/Y | IGNITION |
| 4 | GR | RANGE SIGNAL PA |
| 5 | Y/R | RANGE SIGNAL A |
| 6 | O/L | BATTERY |
| 7 | R | REVERSE RELAY CONT |
| 8 | B/R | NP SW |
| 9 | BR/Y | IGNITION RELAY |
| 10 | - | - |

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | - | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | - | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | - | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | - | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M39 |
|---|---|
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-CS |
| Connector Color | WHITE |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1Q | - | - |
| 2Q | O/L | IGNITION |
| 3Q | - | - |
| 4Q | - | - |
| 5Q | - | - |
| 6Q | R/W | BATTERY |
| 7Q | R/W | IGNITION |
| 8Q | - | - |

AALIA5629GB

BACK-UP LAMP CONNECTORS - WITH Cummins 5.0L

| | |
|---|---|
| Connector No. | M73 |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | M06FBR-R-LC |
| Connector Color | BROWN |

H.S.

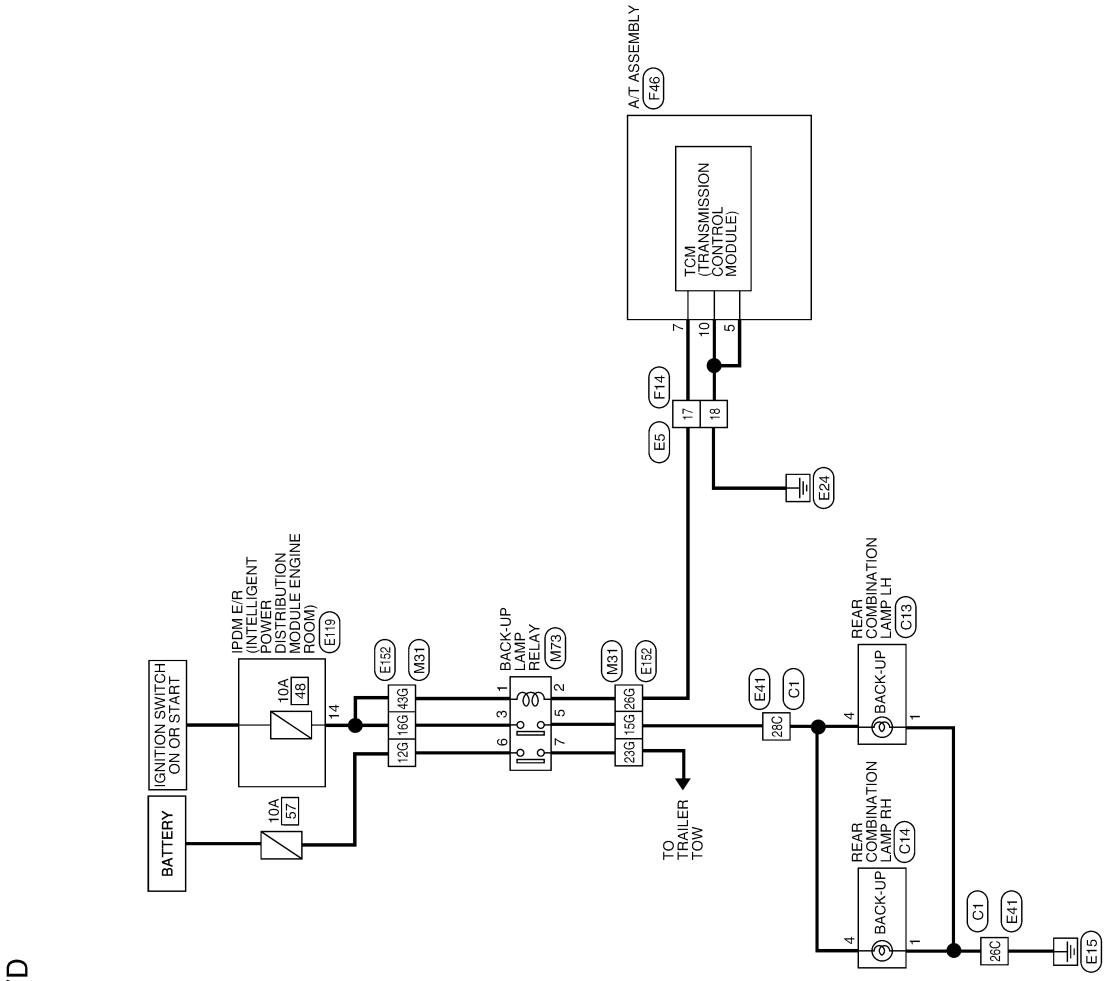
| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | GROUND |
| 2 | R | REV LAMP RELAY CONTROL |
| 3 | G | IGNITION |
| 5 | G/W | REVERSE |
| 6 | W/B | BATTERY |
| 7 | Y/R | REVERSE |

AALIA5699GB

VK56VD

## VK56VD : Wiring Diagram

INFOID:0000000014666268

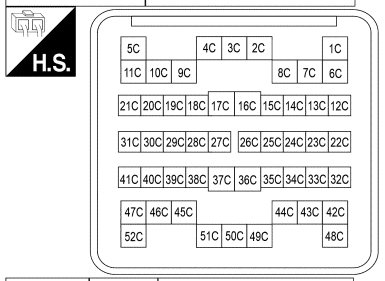



BACK-UP LAMP - WITH VK56VD

AALWA1636GB

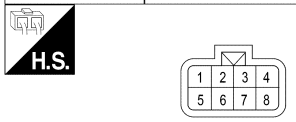
## BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | C1 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26FGY-RS20-X6 |
| Connector Color | GRAY |



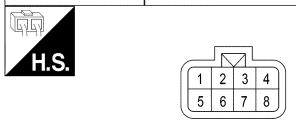

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO ENGINE ROOM HARNESS |
| 2C | W/L | TO ENGINE ROOM HARNESS |
| 3C | B | TO ENGINE ROOM HARNESS |
| 4C | BR/W | TO ENGINE ROOM HARNESS |
| 5C | BR/Y | TO ENGINE ROOM HARNESS |
| 6C | Y | TO ENGINE ROOM HARNESS |
| 7C | G/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 8C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 9C | W/L | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 11C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 12C | Y | TO ENGINE ROOM HARNESS |
| 13C | B | TO ENGINE ROOM HARNESS |
| 14C | BG | TO ENGINE ROOM HARNESS |
| 15C | Y | TO ENGINE ROOM HARNESS |
| 16C | B | TO ENGINE ROOM HARNESS |
| 17C | V | TO ENGINE ROOM HARNESS |
| 18C | BG | TO ENGINE ROOM HARNESS |
| 19C | L | TO ENGINE ROOM HARNESS |
| 20C | W | TO ENGINE ROOM HARNESS |
| 21C | LG | TO ENGINE ROOM HARNESS |
| 22C | SHIELD | TO ENGINE ROOM HARNESS |
| 23C | G/B | TO ENGINE ROOM HARNESS |
| 24C | G/B | TO ENGINE ROOM HARNESS |
| 25C | W | TO ENGINE ROOM HARNESS |
| 26C | B | TO ENGINE ROOM HARNESS |
| 27C | LG | TO ENGINE ROOM HARNESS |
| 28C | G/W | TO ENGINE ROOM HARNESS |
| 29C | R/LG | TO ENGINE ROOM HARNESS |
| 30C | R/L | TO ENGINE ROOM HARNESS |
| 31C | B | TO ENGINE ROOM HARNESS |
| 32C | R | TO ENGINE ROOM HARNESS |
| 33C | L/W | TO ENGINE ROOM HARNESS |
| 34C | L | TO ENGINE ROOM HARNESS |
| 35C | R/W | TO ENGINE ROOM HARNESS |
| 36C | L | TO ENGINE ROOM HARNESS |
| 37C | Y | TO ENGINE ROOM HARNESS |
| 38C | GR | TO ENGINE ROOM HARNESS |
| 39C | R | TO ENGINE ROOM HARNESS |
| 40C | P | TO ENGINE ROOM HARNESS |
| 41C | V | TO ENGINE ROOM HARNESS |
| 42C | LG/B | TO ENGINE ROOM HARNESS |
| 43C | Y/B | TO ENGINE ROOM HARNESS |
| 44C | R | TO ENGINE ROOM HARNESS |
| 45C | G | TO ENGINE ROOM HARNESS |
| 46C | BR | TO ENGINE ROOM HARNESS |
| 47C | B | TO ENGINE ROOM HARNESS |
| 48C | Y/R | TO ENGINE ROOM HARNESS |
| 49C | R/Y | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 50C | B | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 51C | V | TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO ENGINE ROOM HARNESS - (WITH VK56VD) |
| 52C | V/W | TO ENGINE ROOM HARNESS |

| Connector No. | C13 |
|---|---|
| Connector Name | REAR COMBINATION LAMP LH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |



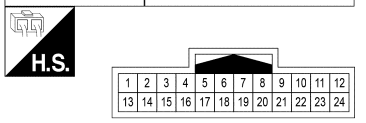

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/B | RL FLASHER |

| Connector No. | C14 |
|---|---|
| Connector Name | REAR COMBINATION LAMP RH |
| Connector Type | RS08FGY-PR |
| Connector Color | GRAY |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | B | GROUND |
| 2 | – | – |
| 3 | LG | ACCESSORY POWER (CARGO LAMP) |
| 4 | G/W | REVERSE/BACK UP RELAY |
| 5 | B | GROUND |
| 6 | R/L | TAIL LAMP RELAY |
| 7 | R/LG | STOP LAMP RELAY(WITHOUT LED) / STOP LAMP SW (WITH LED) |
| 8 | G/Y | RR FLASHER |

| Connector No. | E5 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-NH |
| Connector Color | WHITE |




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/R | TO ENGINE CONTROL HARNESS |
| 2 | BR | TO ENGINE CONTROL HARNESS |
| 3 | V | TO ENGINE CONTROL HARNESS |
| 4 | L/O | TO ENGINE CONTROL HARNESS |
| 5 | W | TO ENGINE CONTROL HARNESS |
| 6 | B/R | TO ENGINE CONTROL HARNESS |
| 7 | Y/R | TO ENGINE CONTROL HARNESS |
| 8 | BR | TO ENGINE CONTROL HARNESS |
| 9 | W/L | TO ENGINE CONTROL HARNESS |
| 10 | L/Y | TO ENGINE CONTROL HARNESS |
| 11 | SB | TO ENGINE CONTROL HARNESS |
| 12 | L | TO ENGINE CONTROL HARNESS |
| 13 | W/R | TO ENGINE CONTROL HARNESS |
| 14 | Y | TO ENGINE CONTROL HARNESS |
| 15 | B | TO ENGINE CONTROL HARNESS |
| 16 | B | TO ENGINE CONTROL HARNESS |
| 17 | R | TO ENGINE CONTROL HARNESS |
| 18 | B | TO ENGINE CONTROL HARNESS |
| 19 | B/R | TO ENGINE CONTROL HARNESS |
| 20 | GR | TO ENGINE CONTROL HARNESS |
| 21 | V/R | TO ENGINE CONTROL HARNESS |
| 22 | B | TO ENGINE CONTROL HARNESS |
| 23 | B | TO ENGINE CONTROL HARNESS |
| 24 | P | TO ENGINE CONTROL HARNESS |

AALIA5630GB

BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | E41 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | RK26MGY-RS20-X6 |
| Connector Color | GRAY |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1C | Y/V | TO CHASSIS HARNESS |
| 2C | W/L | TO CHASSIS HARNESS |
| 3C | B | TO CHASSIS HARNESS |
| 4C | BR/W | TO CHASSIS HARNESS |
| 5C | BR/Y | TO CHASSIS HARNESS |
| 6C | Y | TO CHASSIS HARNESS |
| 7C | G/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 7C | R | TO CHASSIS HARNESS - (WITH VK56VD) |
| 8C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 8C | O/B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 9C | W/L | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 9C | SB | TO CHASSIS HARNESS - (WITH VK56VD) |
| 10C | GR/R | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 10C | GR | TO CHASSIS HARNESS - (WITH VK56VD) |
| 11C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 11C | R/W | TO CHASSIS HARNESS - (WITH VK56VD) |
| 12C | Y | TO CHASSIS HARNESS |
| 13C | B | TO CHASSIS HARNESS |
| 14C | BG | TO CHASSIS HARNESS |
| 15C | Y | TO CHASSIS HARNESS |
| 16C | B | TO CHASSIS HARNESS |
| 17C | V | TO CHASSIS HARNESS |
| 18C | BG | TO CHASSIS HARNESS |
| 19C | L | TO CHASSIS HARNESS |
| 20C | BG | TO CHASSIS HARNESS |
| 21C | B | TO CHASSIS HARNESS |

| 22C | SHIELD | TO CHASSIS HARNESS |
|---|---|---|
| 23C | G/B | TO CHASSIS HARNESS |
| 24C | G/Y | TO CHASSIS HARNESS |
| 25C | W | TO CHASSIS HARNESS |
| 26C | B | TO CHASSIS HARNESS |
| 27C | LG | TO CHASSIS HARNESS |
| 28C | G/W | TO CHASSIS HARNESS |
| 29C | G/R | TO CHASSIS HARNESS - (WITH BULB CHECK) |
| 29C | R/G | TO CHASSIS HARNESS - (WITHOUT BULB CHECK) |
| 30C | R/L | TO CHASSIS HARNESS |
| 31C | B | TO CHASSIS HARNESS |
| 32C | R | TO CHASSIS HARNESS |
| 33C | L/W | TO CHASSIS HARNESS |
| 34C | L | TO CHASSIS HARNESS |
| 35C | R/W | TO CHASSIS HARNESS |
| 36C | L | TO CHASSIS HARNESS |
| 37C | Y | TO CHASSIS HARNESS |
| 38C | BR | TO CHASSIS HARNESS |
| 39C | R | TO CHASSIS HARNESS |
| 40C | P | TO CHASSIS HARNESS |
| 41C | V | TO CHASSIS HARNESS |
| 42C | G/B | TO CHASSIS HARNESS |
| 43C | Y/B | TO CHASSIS HARNESS |
| 44C | R | TO CHASSIS HARNESS |
| 45C | G | TO CHASSIS HARNESS |
| 46C | BR | TO CHASSIS HARNESS |
| 47C | B | TO CHASSIS HARNESS |
| 48C | Y/R | TO CHASSIS HARNESS |
| 49C | R/Y | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 49C | V | TO CHASSIS HARNESS - (WITH VK56VD) |
| 50C | B | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 50C | B/Y | TO CHASSIS HARNESS - (WITH VK56VD) |
| 51C | V | TO CHASSIS HARNESS - (WITH CUMMINS 5.0L) |
| 51C | B | TO CHASSIS HARNESS - (WITH VK56VD) |
| 52C | B | TO CHASSIS HARNESS - (WITHOUT FFV) |
| 52C | L | TO CHASSIS HARNESS - (WITH FFV) |
| 52C | V/W | TO CHASSIS HARNESS |

| Connector No. | E119 |
|---|---|
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Type | NS16FW-CS |
| Connector Color | WHITE |

H.S.



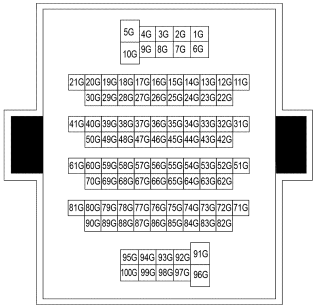

| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 3 | – | – |
| 4 | B/R | NP SW |
| 5 | L/W | H/LAMP HI RH |
| 6 | G | H/LAMP HI LH |
| 7 | L | H/LAMP LO LH |
| 8 | R/Y | H/LAMP LO RH |
| 9 | G/W | FR FOG/L LH |
| 10 | – | – |
| 11 | P | ETC VB - (WITH CUMMINS 5.0L) |
| 11 | O | ETC VB - (WITH VK56VD) |
| 12 | W/R | FR FOG/L RH |
| 13 | Y/R | A/T ECU IGN |
| 14 | G | REVERSE LAMP IGN |
| 15 | GR | ABS ECU IGN |
| 16 | G | ETC RLY CONT - (WITH CUMMINS 5.0L) |
| 16 | V/R | ETC RLY CONT - (WITH VK56VD) |
| 17 | L/W | IGN COIL - (WITH CUMMINS 5.0L) |
| 17 | W | IGN COIL - (WITH VK56VD) |
| 18 | – | – |

AALIA5631GB

## BACK-UP LAMP CONNECTORS - WITH VK56VD

| | |
|---|---|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80MW-CS16-TM4 |
| Connector Color | WHITE |

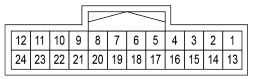
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO MAIN HARNESS |
| 2G | B/R | TO MAIN HARNESS |
| 3G | W/B | TO MAIN HARNESS |
| 4G | BR/W | TO MAIN HARNESS |
| 5G | BR | TO MAIN HARNESS |
| 6G | P | TO MAIN HARNESS - (WITH VK56VD) |
| 6G | R/W | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 7G | Y | TO MAIN HARNESS |
| 8G | G | TO MAIN HARNESS |
| 9G | R | TO MAIN HARNESS |
| 10G | W | TO MAIN HARNESS |
| 11G | R/G | TO MAIN HARNESS |
| 12G | W/B | TO MAIN HARNESS |
| 13G | BR | TO MAIN HARNESS |
| 14G | Y/B | TO MAIN HARNESS |
| 15G | G/W | TO MAIN HARNESS |
| 16G | G | TO MAIN HARNESS |
| 17G | G/Y | TO MAIN HARNESS |
| 18G | G/Y | TO MAIN HARNESS |
| 19G | Y/V | TO MAIN HARNESS |
| 20G | G/Y | TO MAIN HARNESS |
| 21G | B/Y | TO MAIN HARNESS |
| 22G | G/R | TO MAIN HARNESS |
| 23G | Y/R | TO MAIN HARNESS |
| 24G | G/B | TO MAIN HARNESS |
| 25G | R/W | TO MAIN HARNESS |
| 26G | R | TO MAIN HARNESS |
| 27G | LG | TO MAIN HARNESS |
| 28G | G/B | TO MAIN HARNESS |
| 29G | G/B | TO MAIN HARNESS |
| 30G | BR/Y | TO MAIN HARNESS |
| 31G | P | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 31G | R | TO MAIN HARNESS - (WITH VK56VD) |
| 32G | P | TO MAIN HARNESS |
| 33G | Y/L | TO MAIN HARNESS |
| 34G | GR | TO MAIN HARNESS |
| 35G | G/R | TO MAIN HARNESS |
| 36G | SB | TO MAIN HARNESS |
| 37G | R/W | TO MAIN HARNESS |
| 38G | BR | TO MAIN HARNESS |
| 39G | BR | TO MAIN HARNESS |
| 40G | – | TO MAIN HARNESS |
| 41G | R/G | TO MAIN HARNESS |
| 42G | O | TO MAIN HARNESS |
| 43G | B | TO MAIN HARNESS - (WITH CUMMINS 5.0L) |
| 43G | G | TO MAIN HARNESS - (WITH VK56VD) |
| 44G | R/Y | TO MAIN HARNESS |
| 45G | G | TO MAIN HARNESS |
| 46G | LG | TO MAIN HARNESS |
| 47G | R | TO MAIN HARNESS |
| 48G | W | TO MAIN HARNESS |
| 49G | – | TO MAIN HARNESS |
| 50G | BR | TO MAIN HARNESS |
| 51G | R | TO MAIN HARNESS |
| 52G | L | TO MAIN HARNESS |
| 53G | W | TO MAIN HARNESS |
| 54G | W | TO MAIN HARNESS |
| 55G | G | TO MAIN HARNESS |
| 56G | W | TO MAIN HARNESS |
| 57G | Y | TO MAIN HARNESS |
| 58G | BG | TO MAIN HARNESS |
| 59G | BG | TO MAIN HARNESS |
| 60G | BG | TO MAIN HARNESS |
| 61G | B | TO MAIN HARNESS |
| 62G | W | TO MAIN HARNESS |
| 63G | R | TO MAIN HARNESS |
| 64G | W/L | TO MAIN HARNESS |
| 65G | W/R | TO MAIN HARNESS |
| 66G | BG | TO MAIN HARNESS |
| 67G | BG | TO MAIN HARNESS |
| 68G | B | TO MAIN HARNESS |
| 69G | Y | TO MAIN HARNESS |
| 70G | L | TO MAIN HARNESS |
| 71G | R/W | TO MAIN HARNESS |
| 72G | L/W | TO MAIN HARNESS |
| 73G | SHIELD | TO MAIN HARNESS |
| 74G | W | TO MAIN HARNESS |
| 75G | R | TO MAIN HARNESS |
| 76G | R/G | TO MAIN HARNESS |
| 77G | G | TO MAIN HARNESS |
| 78G | W | TO MAIN HARNESS |
| 79G | – | TO MAIN HARNESS |
| 80G | R | TO MAIN HARNESS |
| 81G | L | TO MAIN HARNESS |
| 82G | R | TO MAIN HARNESS |
| 83G | L | TO MAIN HARNESS |
| 84G | L | TO MAIN HARNESS |
| 85G | W/B | TO MAIN HARNESS |
| 86G | B/R | TO MAIN HARNESS |
| 87G | W/B | TO MAIN HARNESS |
| 88G | P | TO MAIN HARNESS |
| 89G | L | TO MAIN HARNESS |
| 90G | G | TO MAIN HARNESS |
| 91G | G | TO MAIN HARNESS |
| 92G | V/W | TO MAIN HARNESS |
| 93G | BR | TO MAIN HARNESS |
| 94G | G | TO MAIN HARNESS |
| 95G | G | TO MAIN HARNESS |
| 96G | W | TO MAIN HARNESS |
| 97G | R | TO MAIN HARNESS |
| 98G | W/B | TO MAIN HARNESS |
| 99G | BR | TO MAIN HARNESS |
| 100G | GR/W | TO MAIN HARNESS |

| | |
|---|---|
| Connector No. | F14 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-NH |
| Connector Color | WHITE |

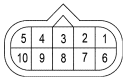
H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | L/R | TO ENGINE ROOM HARNESS |
| 2 | BR | TO ENGINE ROOM HARNESS |
| 3 | V | TO ENGINE ROOM HARNESS |
| 4 | L/O | TO ENGINE ROOM HARNESS |
| 5 | W | TO ENGINE ROOM HARNESS |
| 6 | B/R | TO ENGINE ROOM HARNESS |
| 7 | Y/R | TO ENGINE ROOM HARNESS |
| 8 | BR | TO ENGINE ROOM HARNESS |
| 9 | W/L | TO ENGINE ROOM HARNESS |
| 10 | L/Y | TO ENGINE ROOM HARNESS |
| 11 | SB | TO ENGINE ROOM HARNESS |
| 12 | L | TO ENGINE ROOM HARNESS |
| 13 | W/R | TO ENGINE ROOM HARNESS |
| 14 | Y | TO ENGINE ROOM HARNESS |
| 15 | B | TO ENGINE ROOM HARNESS |
| 16 | B | TO ENGINE ROOM HARNESS |
| 17 | R | TO ENGINE ROOM HARNESS |
| 18 | B | TO ENGINE ROOM HARNESS |
| 19 | B/R | TO ENGINE ROOM HARNESS |
| 20 | GR | TO ENGINE ROOM HARNESS |
| 21 | V/R | TO ENGINE ROOM HARNESS |
| 22 | SHIELD | TO ENGINE ROOM HARNESS |
| 23 | SHIELD | TO ENGINE ROOM HARNESS |
| 24 | P | TO ENGINE ROOM HARNESS |

| | |
|---|---|
| Connector No. | F46 |
| Connector Name | A/T ASSEMBLY (WITH VK56VD) |
| Connector Type | RK10FG |
| Connector Color | GREEN |

H.S.




| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | Y/R | VIGN |
| 2 | P | BATT |
| 3 | L | CAN-H |
| 4 | BR | K-LINE |
| 5 | B | GND |
| 6 | Y/R | VIGN |
| 7 | R | REV LAMP RELAY |
| 8 | P | CAN-L |
| 9 | B/R | STARTER RELAY |
| 10 | B | GND |

AALIA5632GB

BACK-UP LAMP CONNECTORS - WITH VK56VD

| Connector No. | M31 |
|---|---|
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |
| Connector Color | WHITE |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1G | G | TO ENGINE ROOM HARNESS |
| 2G | B/R | TO ENGINE ROOM HARNESS |
| 3G | W | TO ENGINE ROOM HARNESS |
| 4G | BR/W | TO ENGINE ROOM HARNESS |
| 5G | – | TO ENGINE ROOM HARNESS |
| 6G | R/W | TO ENGINE ROOM HARNESS |
| 7G | Y | TO ENGINE ROOM HARNESS |
| 8G | G | TO ENGINE ROOM HARNESS |
| 9G | R | TO ENGINE ROOM HARNESS |
| 10G | W | TO ENGINE ROOM HARNESS |
| 11G | R/G | TO ENGINE ROOM HARNESS |
| 12G | W/B | TO ENGINE ROOM HARNESS |
| 13G | BR | TO ENGINE ROOM HARNESS |
| 14G | Y/B | TO ENGINE ROOM HARNESS |
| 15G | G/W | TO ENGINE ROOM HARNESS |
| 16G | G | TO ENGINE ROOM HARNESS |
| 17G | O | TO ENGINE ROOM HARNESS |
| 18G | G/Y | TO ENGINE ROOM HARNESS |
| 19G | Y/V | TO ENGINE ROOM HARNESS |
| 20G | G/Y | TO ENGINE ROOM HARNESS |
| 21G | B/Y | TO ENGINE ROOM HARNESS |
| 22G | G/R | TO ENGINE ROOM HARNESS |
| 23G | Y/R | TO ENGINE ROOM HARNESS |
| 24G | G/B | TO ENGINE ROOM HARNESS |
| 25G | R/W | TO ENGINE ROOM HARNESS |
| 26G | R | TO ENGINE ROOM HARNESS |
| 27G | LG | TO ENGINE ROOM HARNESS |
| 28G | G/B | TO ENGINE ROOM HARNESS |
| 29G | G/B | TO ENGINE ROOM HARNESS |
| 30G | BR/Y | TO ENGINE ROOM HARNESS |
| 31G | R | TO ENGINE ROOM HARNESS |
| 32G | R | TO ENGINE ROOM HARNESS |
| 33G | Y/L | TO ENGINE ROOM HARNESS |
| 34G | GR | TO ENGINE ROOM HARNESS |
| 35G | G/R | TO ENGINE ROOM HARNESS |
| 36G | SB | TO ENGINE ROOM HARNESS |
| 37G | R/W | TO ENGINE ROOM HARNESS |
| 38G | BR | TO ENGINE ROOM HARNESS |
| 39G | BR | TO ENGINE ROOM HARNESS |
| 40G | – | TO ENGINE ROOM HARNESS |
| 41G | R/G | TO ENGINE ROOM HARNESS |
| 42G | O | TO ENGINE ROOM HARNESS |
| 43G | G | TO ENGINE ROOM HARNESS |
| 44G | R/Y | TO ENGINE ROOM HARNESS |
| 45G | G | TO ENGINE ROOM HARNESS |
| 46G | LG | TO ENGINE ROOM HARNESS |
| 47G | R | TO ENGINE ROOM HARNESS |
| 48G | W | TO ENGINE ROOM HARNESS |
| 49G | – | TO ENGINE ROOM HARNESS |
| 50G | BR | TO ENGINE ROOM HARNESS |
| 51G | R | TO ENGINE ROOM HARNESS |
| 52G | L | TO ENGINE ROOM HARNESS |
| 53G | W | TO ENGINE ROOM HARNESS |
| 54G | W | TO ENGINE ROOM HARNESS |
| 55G | G | TO ENGINE ROOM HARNESS |
| 56G | W | TO ENGINE ROOM HARNESS |
| 57G | Y | TO ENGINE ROOM HARNESS |
| 58G | BG | TO ENGINE ROOM HARNESS |
| 59G | BG | TO ENGINE ROOM HARNESS |
| 60G | BG | TO ENGINE ROOM HARNESS |
| 61G | O | TO ENGINE ROOM HARNESS |
| 62G | W | TO ENGINE ROOM HARNESS |
| 63G | O | TO ENGINE ROOM HARNESS |
| 64G | W/L | TO ENGINE ROOM HARNESS |
| 65G | W/R | TO ENGINE ROOM HARNESS |
| 66G | BG | TO ENGINE ROOM HARNESS |
| 67G | O | TO ENGINE ROOM HARNESS |
| 68G | B | TO ENGINE ROOM HARNESS |
| 69G | Y | TO ENGINE ROOM HARNESS |
| 70G | L | TO ENGINE ROOM HARNESS |
| 71G | R/W | TO ENGINE ROOM HARNESS |
| 72G | L/W | TO ENGINE ROOM HARNESS |
| 73G | SHIELD | TO ENGINE ROOM HARNESS |
| 74G | W | TO ENGINE ROOM HARNESS |
| 75G | R | TO ENGINE ROOM HARNESS |
| 76G | R/G | TO ENGINE ROOM HARNESS |
| 77G | BG | TO ENGINE ROOM HARNESS |
| 78G | P | TO ENGINE ROOM HARNESS |
| 79G | – | TO ENGINE ROOM HARNESS |
| 80G | R | TO ENGINE ROOM HARNESS |
| 81G | L | TO ENGINE ROOM HARNESS |
| 82G | R | TO ENGINE ROOM HARNESS |
| 83G | L | TO ENGINE ROOM HARNESS |
| 84G | L | TO ENGINE ROOM HARNESS |
| 85G | W | TO ENGINE ROOM HARNESS |
| 86G | B/R | TO ENGINE ROOM HARNESS |
| 87G | W | TO ENGINE ROOM HARNESS |
| 88G | G | TO ENGINE ROOM HARNESS |
| 89G | P | TO ENGINE ROOM HARNESS |
| 90G | G | TO ENGINE ROOM HARNESS |
| 91G | P | TO ENGINE ROOM HARNESS |
| 92G | V/W | TO ENGINE ROOM HARNESS |
| 93G | BR | TO ENGINE ROOM HARNESS |
| 94G | B | TO ENGINE ROOM HARNESS |
| 95G | G | TO ENGINE ROOM HARNESS |
| 96G | R | TO ENGINE ROOM HARNESS |
| 97G | R | TO ENGINE ROOM HARNESS |
| 98G | W/B | TO ENGINE ROOM HARNESS |
| 99G | R | TO ENGINE ROOM HARNESS |
| 100G | GR/W | TO ENGINE ROOM HARNESS |

| Connector No. | M73 |
|---|---|
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | M06FBR-R-LC |
| Connector Color | BROWN |

H.S.



| Terminal No. | Color of Wire | Signal Name |
|---|---|---|
| 1 | G | GROUND |
| 2 | R | REV LAMP RELAY CONTROL |
| 3 | G | IGNITION |
| 5 | G/W | REVERSE |
| 6 | W/B | BATTERY |
| 7 | Y/R | REVERSE |

AALIA5633GB

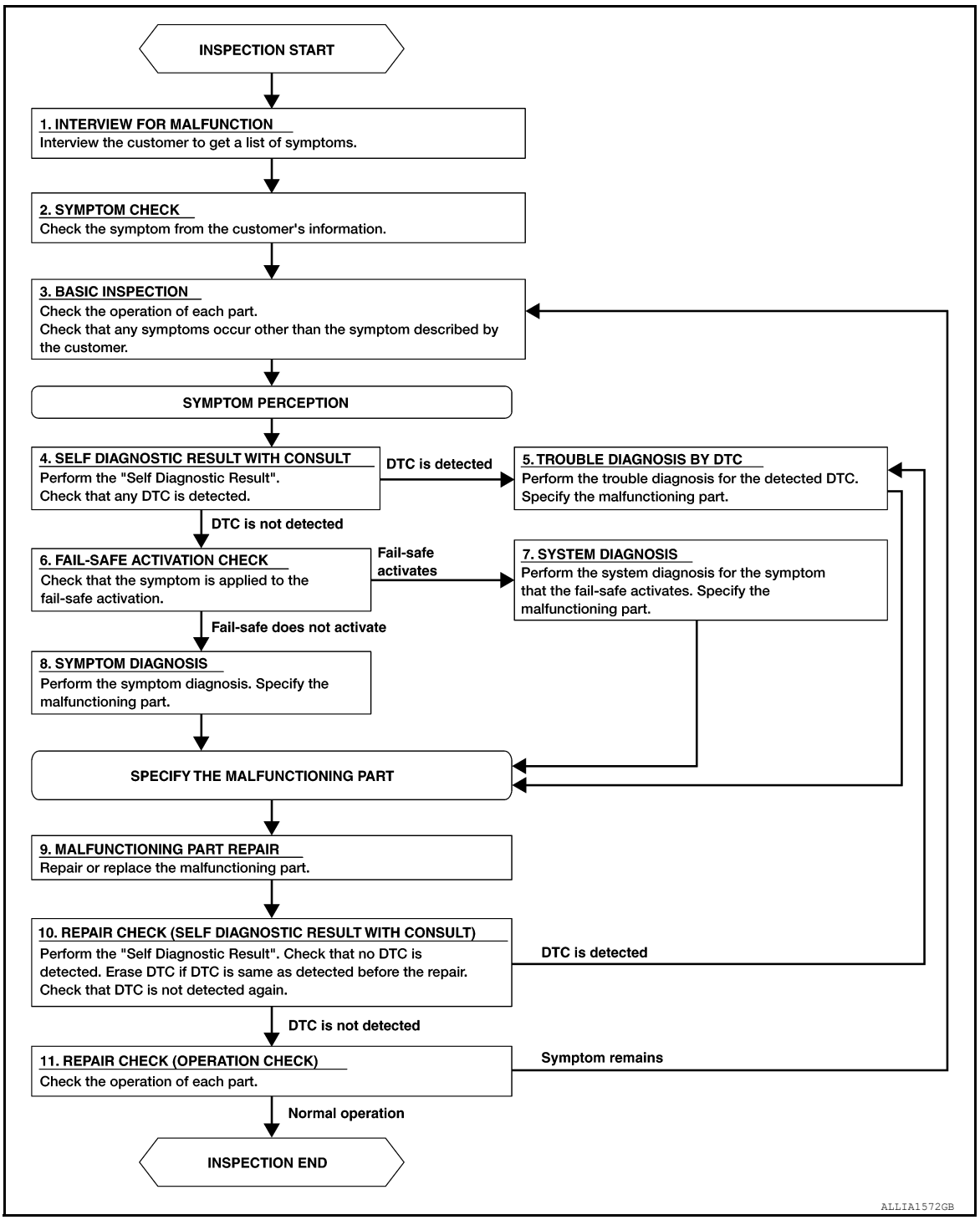
# BASIC INSPECTION

## DIAGNOSIS AND REPAIR WORK FLOW

### Work Flow

INFOID:0000000014388842

#### OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

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

>> GO TO 4.

4.SELF DIAGNOSTIC RESULT WITH CONSULT

Perform the “Self Diagnostic Result”. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 6.

5.TROUBLE DIAGNOSIS BY DTC

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

>> GO TO 9.

6.FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.
NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

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

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis. Specify the malfunctioning part.

>> GO TO 9.

9.MALFUNCTIONING PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10.REPAIR CHECK (SELF DIAGNOSTIC RESULT WITH CONSULT)

Perform the “Self Diagnostic Result”. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> Inspection End.
NO >> GO TO 3.

# LED HEADLAMP OPERATION INSPECTION

## Work Procedure

INFOID:0000000014388843

### 1.CHECK START

1. In the cool LED status (wait for more than 10 minutes after turning headlamp OFF), turn ON and turn OFF headlamp several times. Check that headlamp operates normally each time.
2. In the cool LED status, turn headlamp ON, wait until headlamp enters the stable status (approximately 5 minutes after turning headlamp ON) and then check that headlamp operates normally without blinking or flickering.
3. In the warm LED status (turn headlamp ON for more than 15 minutes and wait for 1 minute after turning OFF), turn ON and turn OFF the headlamp several times. Check that headlamp operates normally each time.
4. Turn headlamp ON for approximately 30 minutes and then check that headlamp operates normally without difference in brightness between LH and RH, blinking or flickering.

Is the inspection result normal?

YES >> Inspection End.
NO >> Refer to EXL-279, "Symptom Table".

# DTC/CIRCUIT DIAGNOSIS

## HEADLAMP (HI) CIRCUIT

### Component Function Check

INFOID:0000000014388844

### 1.CHECK HEADLAMP (HI) OPERATION

With CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the headlamp (HI) blinks.

**Hi : Headlamp (HI) blinks (ON/OFF is repeated 1 second each.)**
**Off : Headlamp (HI) OFF**

Without CONSULT
1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp (HI) blinks.

Is the inspection result normal?

YES >> Headlamp (HI) circuit is normal.
NO >> Refer to EXL-254, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000014388845

Regarding Wiring Diagram information, refer to EXL-177, "Wiring Diagram".

### 1.CHECK FRONT COMBINATION LAMP (HI) FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp HI (RH) | IPDM E/R | 44 | 10 A |
| Headlamp HI (LH) | | 45 | |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2.CHECK FRONT COMBINATION LAMP (HI) OUTPUT VOLTAGE

With CONSULT
1. Disconnect applicable front combination lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable front combination lamp harness connector and ground.

| (+) | | | (-) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | E61 | 5 | Ground | EXTERNAL LAMPS | Hi | Battery voltage |
| | | | | | Off | 0 |
| LH | E62 | | | | Hi | Battery voltage |
| | | | | | Off | 0 |

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 3.

## 3. CHECK FRONT COMBINATION LAMP (HI) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E119 and front combination lamp harness connector E61, and E62.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E61 | 5 | E119 | 5 | Yes |
| LH | E62 | | | 6 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace harness.

## 4. CHECK FRONT COMBINATION LAMP (HI) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between front combination lamp harness connector terminal 7 and ground.

| Front combination lamp connector | | Terminal | — | Continuity |
|---|---|---|---|---|
| RH | E61 | 7 | Ground | Yes |
| LH | E62 | | | |

Is the inspection result normal?

YES >> Replace the headlamp bulb. Refer to EXL-148, "Exploded View".
NO >> Repair or replace the harness or connector.

# HEADLAMP (LO) CIRCUIT

## Component Function Check

INFOID:0000000014388846

### 1.CHECK HEADLAMP (LO) OPERATION

With CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the headlamp (LO) is turned ON.

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

Without CONSULT
1. Start IPDM E/R auto active test. Refer to PCS-10, "Diagnosis Description".
2. Check that the headlamp (LO) is turned ON.

Is the inspection result normal?

YES >> Headlamp (LO) circuit is normal.
NO >> Refer to EXL-256, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388847

Regarding Wiring Diagram information, refer to EXL-177, "Wiring Diagram".

### 1.CHECK FRONT COMBINATION LAMP (HI) FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Headlamp HI (LH) | IPDM E/R | 61 | 10 A |
| Headlamp HI (RH) | | 67 (Cummins 5.0L engine) | |
| | | 69 (VK56VD engine) | |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace the blown fuse after repairing the affected circuit.

### 2.CHECK FRONT COMBINATION LAMP (LO) OUTPUT VOLTAGE

With CONSULT
1. Disconnect applicable front combination lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable front combination lamp harness connector and ground.

| (+) | | | (-) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | E61 | 4 | Ground | EXTERNAL LAMPS | Lo | Battery voltage |
| | | | | | Off | 0 |
| LH | E62 | | | | Lo | Battery voltage |
| | | | | | Off | 0 |

Is the inspection result normal?

YES >> Perform the LED headlamp diagnosis. Refer to EXL-256, "Diagnosis Procedure".

NO >> GO TO 3.

## 3. CHECK FRONT COMBINATION LAMP (LO) POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E119 and front combination lamp harness connector E61, and E62.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E61 | 4 | E119 | 8 | Yes |
| LH | E62 | | | 7 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

# DAYTIME RUNNING LIGHT CIRCUIT

## Component Function Check

INFOID:0000000014388848

### 1.CHECK DAYTIME RUNNING LIGHT OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check daytime running light operation.

**On : EXTERNAL LAMPS Hi**
**Off : EXTERNAL LAMPS Off**

Is the inspection result normal?

YES >> Daytime running light circuit is normal.
NO >> Refer to EXL-258, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388849

Regarding Wiring Diagram information, refer to EXL-200, "Wiring Diagram".

### 1.CHECK DAYTIME RUNNING LIGHT CONTROL SIGNAL OUTPUT

CONSULT
1. Turn ignition switch ON.
2. Disconnect front combination lamp harness connector.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test item, check voltage between IPDM E/R harness connector and ground.

| (+) | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|
| Front combination lamp | | | | | |
| Connector | Terminal | | | | |
| E61 (RH) | 3 | Ground | EXTERNAL LAMPS | Off | 0 V |
| E62 (LH) | | | | On | Battery voltage |

Is the inspection result normal?

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

### 2.CHECK DAYTIME RUNNING LIGHT CONTROL SIGNAL CIRCUIT (OPEN)

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

| IPDM E/R | | Front combination lamp | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| E122 | 42 | E61 (RH) | 3 | Yes |
| | | E62 (LH) | 3 | |

Is the inspection result normal?

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

### 3.CHECK DAYTIME RUNNING LIGHT CONTROL SIGNAL CIRCUIT (SHORT)

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

| IPDM E/R | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E122 | 42 | | No |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

## 4. CHECK DAYTIME RUNNING LIGHT GROUND CIRCUIT

Check continuity between front combination lamp harness connector and ground.

| Front combination lamp | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E61 (RH) | 6 | | Yes |
| E62 (LH) | | | |

Is the inspection result normal?

YES >> Replace applicable LED daytime, parking lamp control module. Refer to EXL-307, "Disassembly and Assembly".
NO >> Repair or replace the harness or connector.

# LED HEADLAMP

## Diagnosis Procedure

INFOID:0000000014388850

Regarding Wiring Diagram information, refer to EXL-177, "Wiring Diagram".

### 1.CHECK FRONT COMBINATION LAMP (LO) GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front combination lamp connector.
3. Check continuity between front combination lamp harness connector E61, E62, and ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E61 | 6 | | Yes |
| LH | E62 | | | |

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

### 2.CHECK LED HEADLAMP CONTROL MODULE

Install the normal LED headlamp control module to the applicable headlamp. Check that the lighting switch is turned ON. Refer to EXL-157, "LED Headlamp Control Module".

Is the headlamp turned ON?

YES >> Replace LED headlamp control module. Refer to EXL-291, "Exploded View".
NO >> GO TO 3.

### 3.CHECK HEADLAMP

Install the normal headlamp to the applicable headlamp. Check that the headlamp is turned ON. Refer to EXL-260, "Diagnosis Procedure".

Is the headlamp turned ON?

YES >> Replace headlamp. Refer to EXL-291, "Removal and Installation".
NO >> LED headlamp is normal. Check headlamp control system.

# PARKING LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388851

### 1.CHECK PARKING LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the parking lamp is turned ON.

**TAIL : Parking lamp ON**
**Off : Parking lamp OFF**

Is the inspection result normal?

YES >> Parking lamp circuit is normal.
NO >> Refer to EXL-261, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388852

Regarding Wiring Diagram information, refer to EXL-224, "Wiring Diagram".

### 1.CHECK PARKING LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| • Parking lamps<br>• Side marker lamps | IPDM E/R | 42 | 10A |
| | | 43 | |

Is the inspection result normal?

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

### 2.CHECK PARKING LAMP CIRCUIT

1. Disconnect the following connectors:
- IPDM E/R
- Front combination lamps
- Rear combination lamps
- License plate lamps
2. Check continuity between IPDM E/R harness connector E121 and ground.

| IPDM E/R | | | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E121 | 27 | Ground | No |
| | 33 | | |

Is the inspection result normal?

YES >> Replace fuse. (Replace IPDM E/R if blown fuse is found again.)
NO >> Repair or replace the harness or connector.

### 3.CHECK PARKING LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect front combination lamp connectors.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between IPDM E/R harness connector and ground.

| (+) | | (−) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|
| IPDM E/R | | | | | |
| Connector | Terminal | | | | |
| E121 | 27 | Ground | EXTERNAL LAMPS | TAIL | Battery voltage |
| | 33 | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".

## 4. CHECK PARKING LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector E121 and front combination lamp harness connector E61, and E62.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E61 | 2 | E121 | 27 | Yes |
| LH | E62 | | | 33 | |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the harness or connector.

## 5. CHECK PARKING LAMP GROUND CIRCUIT

Check continuity between front combination lamp harness connector and ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E61 | 6 | | Yes |
| LH | E62 | | | |

Is the inspection result normal?

YES >> Replace LED daytime, parking lamp control module. Refer to EXL-307, "Disassembly and Assembly".
NO >> Repair or replace the harness or connector.

# FRONT SIDE MARKER LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388853

### 1.CHECK PARKING LAMP OPERATION

Check that the parking lamp is turned ON.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check parking lamp circuit. Refer to EXL-261, "Component Function Check".

### 2.CHECK FRONT SIDE MARKER LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the front side marker lamp is turned ON.

**TAIL : Front side marker lamp ON**
**Off : Front side marker lamp OFF**

Is the inspection result normal?

YES >> Front side marker lamp circuit is normal.
NO >> Refer to EXL-263, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388854

Regarding Wiring Diagram information, refer to EXL-214, "Wiring Diagram".

### 1.CHECK FRONT SIDE MARKER LAMP BULB

Check applicable lamp bulb.

Is the inspection result normal?

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

### 2.CHECK FRONT SIDE MARKER LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E121 and front side marker lamp connector E135, and E136.
3. Check continuity between IPDM E/R harness connector E121 and front side marker lamp harness connector E135, and E136.

| Front combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E136 | 17 | E121 | 27 | Yes |
| LH | E135 | | | 33 | |

Is the inspection result normal?

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

### 3.CHECK FRONT SIDE MARKER LAMP GROUND CIRCUIT

Check continuity between front side marker lamp harness connector E135, E136, and ground.

| Front combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E136 | 18 | | Yes |
| LH | E135 | | | |

Is the inspection result normal?

YES >> Check corresponding bulb socket and harness. Repair or replace if necessary.
NO >> Repair or replace the harness or connector.

# TAIL LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388855

### 1.CHECK TAIL LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While operating the test items, check that the tail lamp is turned ON.

**TAIL : Tail lamp ON**
**Off : Tail lamp OFF**

Is the inspection result normal?

YES >> Tail lamp circuit is normal.
NO >> Refer to EXL-265, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388856

Regarding Wiring Diagram information, refer to EXL-214, "Wiring Diagram".

### 1.CHECK PARKING LAMP OPERATION

Check that the parking lamp is turned ON.

Is the inspection result normal?

YES [When tail lamp RH or LH does not turn ON]>>GO TO 2.
NO >> Check parking lamp circuit. Refer to EXL-103, "Component Function Check".

### 2.CHECK TAIL LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Tail lamp RH | IPDM E/R | 43 | 10A |
| Tail lamp LH | | | |

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing the affected circuit.

### 3.CHECK TAIL LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect rear combination lamp RH or LH connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check voltage between applicable rear combination lamp harness connector and ground.

| (+) | | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Rear combination lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | C14 | 5 | Ground | EXTERNAL LAMPS | TAIL | Battery voltage |
| | | | | | Off | 0 V |
| LH | C13 | | | | TAIL | Battery voltage |
| | | | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 4.

## 4. CHECK TAIL LAMP POWER SUPPLY CIRCUIT (SHORT)

1. Disconnect IPDM E/R connector E121 and rear combination lamp RH or LH connector C14, or C15.
2. Check continuity between IPDM E/R harness connector E121 and ground.

| (+) | | (–) | Continuity |
|---|---|---|---|
| IPDM E/R | | | |
| Connector | Terminal | | |
| E121 | 28 | Ground | No |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

## 5. CHECK TAIL LAMP POWER SUPPLY CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E121 and rear combination lamp connector C13, and C14.
3. Check continuity between IPDM E/R harness connector E121 and rear combination lamp harness connector C13, and C14.

| Rear combination lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | C14 | 6 | E121 | 28 | Yes |
| LH | C13 | | | | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace harness.

## 6. CHECK TAIL LAMP GROUND CIRCUIT

Check continuity between rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | C14 | 5 | | Yes |
| LH | C13 | | | |

Is the inspection result normal?

YES >> Replace rear combination lamp. Refer to EXL-304, "Bulb Replacement".
NO >> Repair or replace harness.

# LICENSE PLATE LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388857

### 1.CHECK TAIL LAMP LH OPERATION

Check that the tail lamp LH is turned ON.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check tail lamp circuit. Refer to EXL-107, "Component Function Check".

### 2.CHECK LICENSE PLATE LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While 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 inspection result normal?

YES >> License plate lamp circuit is normal.
NO >> Refer to EXL-267, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388858

Regarding Wiring Diagram information, refer to EXL-224, "Wiring Diagram".

### 1.CHECK LICENSE PLATE LAMP BULB

Check the applicable lamp bulb.

Is the inspection result normal?

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

### 2.CHECK LICENSE PLATE LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E121 and license plate lamp connector C109, and C110.
3. Check continuity between IPDM E/R harness connector E121 and license plate lamp harness connector C109, and C110.

| License plate lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | C109 | 1 | E121 | 28 | Yes |
| LH | C110 | | | | |

Is the inspection result normal?

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

### 3.CHECK LICENSE PLATE LAMP GROUND CIRCUIT

Check continuity between license plate lamp harness connector C109, C110, and ground.

| License plate lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | C109 | 2 | | Yes |
| LH | C110 | | | |

Is the inspection result normal?

YES >> Check corresponding bulb socket and harness. Repair or replace if necessary.
NO >> Repair or replace the harness or connector.

# FRONT FOG LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388859

### 1.CHECK FRONT FOG LAMP OPERATION

CONSULT
1. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
2. While 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 inspection result normal?

YES >> Front fog lamp circuit is normal.
NO >> Refer to EXL-269, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388860

Regarding Wiring Diagram information, refer to EXL-209, "Wiring Diagram".

### 1.CHECK FRONT FOG LAMP FUSE

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

| Unit | Location | Fuse No. | Capacity |
|---|---|---|---|
| Front fog lamp | IPDM E/R | 35 | 15A |

Is the inspection result normal?

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

### 2.CHECK FRONT FOG LAMP OUTPUT VOLTAGE

CONSULT
1. Disconnect front fog lamp connector.
2. Turn ignition switch ON.
3. Select “EXTERNAL LAMPS” in “Active Test” mode of “IPDM E/R”.
4. While operating the test items, check the voltage between Front fog lamp harness connector E101, E102, and ground.

| (+) | | | (–) | Test item | | Voltage (Approx.) |
|---|---|---|---|---|---|---|
| Front fog lamp | | | | | | |
| Connector | | Terminal | | | | |
| RH | E102 | 1 | Ground | EXTERNAL LAMPS | Fog | Battery voltage |
| LH | E101 | | | | Off | 0 V |

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

### 3.CHECK FRONT FOG LAMP POWER SUPPLY CIRCUIT (SHORT)

1. Disconnect applicable front fog lamp connector and IPDM E/R connector E119.
2. Check continuity between IPDM E/R harness connector E119 and ground.

| IPDM E/R | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| E119 | 9 | | No |
| | 12 | | |

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the harness or connector.

## 4. CHECK FRONT FOG LAMP POWER SUPPLY CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector E119.
3. Check continuity between IPDM E/R harness connector E119 and front fog lamp harness connector E101, and E102.

| Front fog lamp | | | IPDM E/R | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| RH | E102 | 1 | E119 | 12 | Yes |
| LH | E101 | | | 9 | |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Repair or replace the harness or connector.

## 5. CHECK FRONT FOG LAMP GROUND CIRCUIT

Check continuity between front fog lamp harness connector E101, E102, and ground.

| Front fog lamp | | | Ground | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| RH | E102 | 2 | | Yes |
| LH | E101 | | | |

Is the inspection result normal?

YES >> Replace bulb. Refer to EXL-295, "Bulb Replacement".
NO >> Repair or replace the harness or connector.

# TURN SIGNAL LAMP CIRCUIT

## Component Function Check

INFOID:0000000014388861

### 1.CHECK TURN SIGNAL LAMP

CONSULT
1. Select “FLASHER” in “Active Test” mode of “BCM”.
2. While operating the test items, check that the turn signal lamp blinks.

**LH : Turn signal lamp LH blinking**
**RH : Turn signal lamp RH blinking**
**OFF : The turn signal lamp OFF**

Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.
NO >> Refer to EXL-271, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388862

Regarding Wiring Diagram information, refer to EXL-214, "Wiring Diagram".

### 1.CHECK TURN SIGNAL LAMP BULB

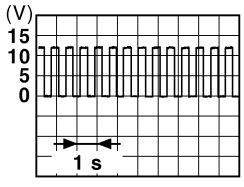
Check the applicable lamp bulb to be sure the proper bulb standard is in use and the bulb is not open.

Is the bulb OK?

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

### 2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

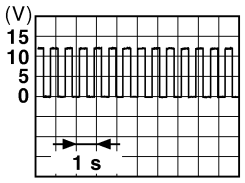
1. Turn ignition switch OFF.
2. Disconnect the front combination lamp connector, door mirror connector and the rear combination lamp connector.
3. Turn ignition switch ON.
4. With turn signal switch operating, check the voltage between the applicable front combination lamp harness connector and ground.

| Front combination lamp | | | (–) | Voltage |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | E80 | 21 | Ground |  |
| RH | E79 | | | |

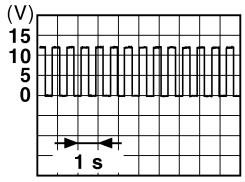

PKID0926E

5. With turn signal switch operating, check the voltage between the door mirror harness connector D4, D107, and ground.

| Door mirror | | (–) | Voltage |
|---|---|---|---|
| Connector | Terminal | | |

| | | | | |
|---|---|---|---|---|
| LH | D4 | 9 | Ground |   |
| RH | D107 | | | |

6. With turn signal switch operating, check the voltage between the rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | (−) | Voltage |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | C13 | 8 | Ground |   |
| RH | C14 | | | |

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

## 3. CHECK TURN SIGNAL LAMP POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between the BCM harness connector M80 and the front combination lamp harness connector E79, and E80.

| Front combination lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | E80 | 21 | M80 | 117 | Yes |
| RH | E79 | | | 105 | |

4. Check continuity between the BCM harness connector M80 and the door mirror harness connector D4, and D107.

| Door mirror lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | D4 | 8 | M80 | 117 | Yes |
| RH | D107 | | | 105 | |

5. Check continuity between the BCM harness connector M20 and the rear combination lamp harness connector C13, and C14.

| Rear combination lamp | | | BCM | | Continuity |
|---|---|---|---|---|---|
| Connector | | Terminal | Connector | Terminal | |
| LH | C13 | 8 | M20 | 103 | Yes |
| RH | C14 | | | 92 | |

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair the harness or connector.

## 4. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Check continuity between the front combination lamp harness connector E79, E80, and ground.

| Front combination lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | E80 | 19 | Ground | Yes |
| RH | E79 | | | |

2. Check continuity between the door mirror harness connector D4, D107, and ground.

| Door mirror lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | D4 | 10 | Ground | Yes |
| RH | D107 | | | |

3. Check continuity between the rear combination lamp harness connector C13, C14, and ground.

| Rear combination lamp | | | — | Continuity |
|---|---|---|---|---|
| Connector | | Terminal | | |
| LH | C13 | 1 | Ground | Yes |
| RH | C14 | | | |

Is the inspection result normal?

YES >> Replace the malfunctioning lamp.
NO >> Repair the harness or connector.

# OPTICAL SENSOR

## Component Function Check

INFOID:0000000014388863

### 1.CHECK OPTICAL SENSOR SIGNAL WITH CONSULT

CONSULT
1. Turn ignition switch ON.
2. Select “HEADLAMP” in “Data Monitor” mode of “BCM”.
3. Turn lighting switch to AUTO.
4. With the optical sensor illuminating, check the monitor status.

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

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

Is the inspection result normal?

YES >> Optical sensor is normal.
NO >> Refer to EXL-274, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388864

Regarding Wiring Diagram information, refer to EXL-190, "Wiring Diagram".

### 1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

1. Turn ignition switch ON.
2. Turn lighting switch to AUTO.
3. Check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Optical sensor | | | |
| Connector | Terminal | | |
| M52 | 1 | Ground | 5 V |

Is the inspection result normal?

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

### 2.CHECK OPTICAL SENSOR GROUND INPUT

Check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Optical sensor | | | |
| Connector | Terminal | | |
| M52 | 3 | Ground | 0 V |

Is the inspection result normal?

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

### 3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

While illuminating the optical sensor, check voltage between optical sensor harness connector M52 and ground.

| (+) | | (–) | Condition | | Voltage (Approx.) |
|---|---|---|---|---|---|
| Optical sensor | | | | | |
| Connector | Terminal | | | | |
| M52 | 2 | Ground | Optical sensor | When illuminating | 3.1 V or more * |
| | | | | When shutting off light | 0.6 V or less |

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

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace the optical sensor. Refer to EXL-294, "Removal and Installation".

## 4. CHECK OPTICAL SENSOR (OPEN) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 1 | M18 | 3 | Yes |

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the harness or connector.

## 5. CHECK OPTICAL SENSOR (SHORT) CIRCUIT

Check continuity between optical sensor harness connector M52 and ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M52 | 1 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

## 6. CHECK OPTICAL SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector M52 and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 3 | M18 | 17 | Yes |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness connector.

## 7. CHECK OPTICAL SENSOR SIGNAL CIRCUIT (OPEN)

1. Turn ignition switch OFF.
2. Disconnect optical sensor connector M52 and BCM connector M18.
3. Check continuity between optical sensor harness connector M52 and BCM harness connector M18.

| Optical sensor | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M52 | 2 | M18 | 4 | Yes |

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the harness or connector.

## 8. CHECK OPTICAL SENSOR CIRCUIT (SHORT)

Check continuity between optical sensor harness connector M52 and ground.

| Optical sensor | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M52 | 2 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

# HAZARD SWITCH

## Component Function Check

INFOID:0000000014388865

### 1.CHECK HAZARD SWITCH SIGNAL WITH CONSULT

CONSULT
1. Turn ignition switch ON.
2. Select “FLASHER” in “Data Monitor” mode of “BCM”.
3. While operating the hazard switch, check the monitor status.

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

Is the inspection result normal?

YES >> Hazard switch circuit is normal.
NO >> Refer to EXL-277, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000014388866

Regarding Wiring Diagram information, refer to EXL-214, "Wiring Diagram".

### 1.CHECK HAZARD SWITCH SIGNAL INPUT

1. Turn ignition switch OFF.
2. Disconnect hazard switch connector M47.
3. Check voltage between hazard switch harness connector M47 and ground.

| (+) | | (–) | Voltage (Approx.) |
|---|---|---|---|
| Hazard switch | | | |
| Connector | Terminal | | |
| M47 | 2 | Ground | Battery voltage |

Is the inspection result normal?

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

### 2.CHECK HAZARD SWITCH SIGNAL CIRCUIT (OPEN)

1. Disconnect BCM connector.
2. Check continuity between hazard switch harness connector M47 and BCM harness connector M18.

| Hazard switch | | BCM | | Continuity |
|---|---|---|---|---|
| Connector | Terminal | Connector | Terminal | |
| M47 | 2 | M18 | 36 | Yes |

Is the inspection result normal?

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

### 3.CHECK HAZARD SWITCH SIGNAL CIRCUIT (SHORT)

Check continuity between hazard switch harness connector M47 and ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M47 | 2 | | No |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace the harness or connector.

## 4. CHECK HAZARD SWITCH GROUND CIRCUIT

Check continuity between hazard switch harness connector M47 and ground.

| Hazard switch | | Ground | Continuity |
|---|---|---|---|
| Connector | Terminal | | |
| M47 | 3 | | Yes |

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-298, "Removal and Installation".
NO >> Repair or replace the harness or connector.

# SYMPTOM DIAGNOSIS

## EXTERIOR LIGHTING SYSTEM SYMPTOMS

### Symptom Table

INFOID:0000000014388867

**NOTE:**
Perform the “Self Diagnostic Result” with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Headlamp (HI) is not turned ON | One side | • Fuse<br>• Headlamp (HI) power supply circuit<br>• Front combination lamp internal circuit<br>- Harness<br>• IPDM E/R | Headlamp (HI) circuit<br>Refer to EXL-254. |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON”<br>Refer to EXL-283, "Diagnosis Procedure". | |
| High beam indicator lamp is not turned ON [Headlamp (HI) is turned ON] | | Combination meter | • Combination meter<br>“Data Monitor” “HI-BEAM IND”<br>• “BCM (HEAD LAMP)<br>“Active Test” “HEAD LAMP” |
| Headlamp (LO) is not turned ON | One side | • Fuse<br>• Headlamp (LO) power supply circuit<br>• Front combination lamp internal circuit<br>- LED (headlamp low)<br>- LED headlamp control module<br>- Harness<br>• IPDM E/R | Headlamp (LO) circuit<br>Refer to EXL-256. |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON”<br>Refer to EXL-284, "Diagnosis Procedure". | |
| Headlamp (HI) and (LO) is not turned ON | | • LED headlamp ground circuit (headlamp HI)<br>• Front combination lamp internal circuit<br>- LED headlamp control module (headlamp HI)<br>- Harness | LED headlamp<br>Refer to EXL-260. |
| Headlamp warning remains ON [Headlamp (LO) is turned ON] | | • LED headlamp warning signal circuit<br>• Front combination lamp internal circuit<br>- LED headlamp control module<br>- Harness<br>• Combination meter | Headlamp warning<br>Refer to MWI-14. |
| Each lamp is not turned ON/OFF with lighting switch AUTO | | • Lighting switch input/output signal circuit<br>• Lighting switch<br>• BCM | Lighting switch<br>Refer to BCS-77. |
| | | • Optical sensor power supply/ground/signal circuit<br>• Optical sensor<br>• BCM | Optical sensor<br>Refer to EXL-274. |

| Symptom | Possible cause | Inspection item |
|---|---|---|
| Parking lamp is not turned ON | • Fuse<br>• Parking lamp power supply/ ground circuit<br>• Front combination lamp internal circuit<br>- LED (parking lamp)<br>- Control circuit<br>- Harness<br>• IPDM E/R | Parking lamp circuit<br>Refer to EXL-261. |
| Side marker lamp is not turned ON<br>[Parking lamp is turned ON] | Front combination lamp internal circuit<br>• Side marker lamp<br>• Control circuit<br>• Harness | Replace front combination lamp<br>Refer to EXL-291. |
| Tail lamp is not turned ON | • Fuse<br>• Tail lamp power supply/ground circuit<br>• Rear combination lamp internal circuit<br>- LED (tail lamp)<br>- Harness<br>• IPDM E/R | Tail lamp circuit<br>Refer to EXL-265. |
| License plate lamp is not turned ON<br>[Tail lamp is turned ON] | • License plate lamp power supply/ ground circuit<br>• License plate lamp bulb<br>• License plate lamp bulb socket<br>• IPDM E/R | License plate lamp circuit<br>Refer to EXL-267. |
| Parking lamp, license plate lamp, side marker lamp and tail lamp are not turned ON | **Symptom diagnosis**<br>“PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON”<br>Refer to EXL-285, "Diagnosis Procedure". | |
| Position lamp indicator is not turned ON<br>(Parking lamp, license plate lamp, side marker lamp and tail lamp are turned ON) | Combination meter | • Combination meter<br>“Data Monitor” “LIGHT IND”<br>• BCM (HEAD LAMP)<br>“Active Test” “TAIL LAMP” |
| Daytime running light is not turned ON | • Fuse<br>• Daytime running light power supply/ground circuit<br>• Front combination lamp internal circuit<br>- LED (daytime running light)<br>- Control circuit<br>- Harness<br>• IPDM E/R<br>• BCM<br>• ECM<br>• Combination meter | • Daytime running light circuit<br>Refer to EXL-258.<br>• BCM (HEAD LAMP)<br>“Data Monitor” “ENGINE STATE”<br>• Combination meter<br>“Data Monitor” “PKB SW” |
| Back-up lamp is not turned ON | • Fuse<br>• Back-up lamp relay<br>• Back-up lamp relay power supply/control signal circuit<br>• Back-up lamp power supply/ ground circuit<br>• Rear combination lamp internal circuit<br>- Back-up lamp<br>- Harness<br>• Joint connector<br>• TCM | Back-up lamp circuit<br>Refer to EXL-265. |

| Symptom | | Possible cause | Inspection item |
|---|---|---|---|
| Turn signal lamp does not blink | Indicator lamp is normal (Applicable side performs high flasher activation) | • Front turn signal lamp<br>- Front turn signal lamp power supply/ground circuit<br>- Front turn signal lamp<br>• Side turn signal lamp<br>- Side turn signal lamp power supply/ground circuit<br>- Side turn signal lamp<br>• Rear turn signal lamp<br>- Rear turn signal lamp power supply/ground circuit<br>- Bulb (rear turn signal lamp)<br>- Rear turn signal lamp bulb socket/harness | Turn signal lamp circuit<br>Refer to EXL-271. |
| | Indicator lamp is included | • Combination switch input/output signal circuit<br>• Combination switch<br>• BCM | Combination switch<br>Refer to BCS-75. |
| Turn signal indicator lamp does not blink<br>(Turn signal lamp is normal) | One side | Combination meter | — |
| | Both sides<br>(Always) | • Turn signal indicator<br>• BCM<br>• Combination meter | • Combination meter<br>“Data Monitor” “TURN IND”<br>• BCM (FLASHER)<br>“Active Test” “FLASHER” |
| | Both sides<br>(Only when activating hazard warning lamp with ignition switch OFF) | • Combination meter power supply/ground circuit<br>• Combination meter | Combination meter<br>Power supply and ground circuit<br>Refer to MWI-87. |
| • Hazard warning lamp does not activate (Turn signal is normal)<br>• Hazard warning lamp continues activating | | • Hazard switch signal/ground circuit<br>• Integral switch (hazard switch)<br>• BCM | Hazard switch<br>Refer to EXL-277. |
| Front fog lamp is not turned ON | One side | • Front fog lamp power supply/ground circuit<br>• Front fog lamp<br>• IPDM E/R | Front fog lamp circuit<br>Refer to EXL-269. |
| | Both sides | **Symptom diagnosis**<br>“BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON”<br>Refer to EXL-286, "Diagnosis Procedure". | |
| Front fog lamp indicator lamp is not turned ON<br>(Front fog lamp is turned ON) | | Combination meter | • Combination meter<br>“Data Monitor” “FR FOG IND”<br>• BCM (HEAD LAMP)<br>“Active Test” “FR FOG LAMP” |

# NORMAL OPERATING CONDITION

## Description

INFOID:0000000014388868

### LED HEADLAMP

- LED brightness and color may slightly change until the temperature becomes stable. This is not a malfunction.
- Illumination time lag may occur between right and left. This is not a malfunction.
- Brightness may be reduced due to age deterioration of LED.

### 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 is normal.

# BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

## Description

INFOID:0000000014388869

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

## Diagnosis Procedure

INFOID:0000000014388870

### 1.COMBINATION SWITCH (LIGHTING AND TURN SIGNAL SWITCH) INSPECTION

Check combination switch (lighting and turn signal switch). Refer to BCS-77, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK HEADLAMP (HI) REQUEST SIGNAL INPUT

With CONSULT

1. Select “HL HI REQ” in “Data Monitor” mode of “IPDM E/R”.
2. While operating the combination switch (lighting and turn signal switch), check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL HI REQ | Combination switch (lighting and turn signal switch) | HI or PASS | On |
| | | LO | Off |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

# BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

## Description

INFOID:0000000014388871

Both side headlamps (LO) are not turned ON in any condition.

## Diagnosis Procedure

INFOID:0000000014388872

### 1.CHECK LIGHTING SWITCH

Check lighting switch. Refer to BCS-77, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK HEADLAMP (LO) REQUEST SIGNAL INPUT

With CONSULT

1. Select “HL LO REQ” in “Data Monitor” mode of “IPDM E/R”.
2. While operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| HL LO REQ | Lighting switch | 2ND | On |
| | | OFF | Off |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Replace BCM. Refer to PCS-43, "Removal and Installation of IPDM E/R".

# PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON

## Description

INFOID:0000000014388873

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

## Diagnosis Procedure

INFOID:0000000014388874

### 1.LIGHTING SWITCH INSPECTION

Check lighting switch. Refer to BCS-77, "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

With CONSULT
1. Select “TAIL & CLR REQ” in “Data Monitor” mode of “IPDM E/R”.
2. While operating the lighting switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| TAIL & CLR REQ | Lighting switch | 1ST | On |
| | | OFF | Off |

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-43, "Removal and Installation of IPDM E/R".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

# BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

## Description

INFOID:0000000014388875

Both side front fog lamps are not turned ON in any condition.

## Diagnosis Procedure

INFOID:0000000014388876

### 1.FRONT FOG LAMP SWITCH INSPECTION

Check front fog lamp switch. Refer to BCS-77, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning part.

### 2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

With CONSULT

1. Select “FR FOG REQ” in “Data Monitor” mode of “IPDM E/R”.
2. While operating the front fog lamp switch, check the monitor status.

| Monitor item | Condition | | Monitor status |
|---|---|---|---|
| FR FOG REQ | Front fog lamp switch | ON | On |
| | | OFF | Off |

Is the item status normal?

YES >> Perform the front fog lamp diagnosis. Refer to EXL-269, "Diagnosis Procedure".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

# PERIODIC MAINTENANCE

## ADJUSTMENT AND INSPECTION

## HEADLAMP

### HEADLAMP : Inspection

INFOID:0000000014388877

#### PREPARATION BEFORE ADJUSTING

Before performing aiming adjustment, check the following:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from headlamp lens.

**CAUTION:**

**Do not use organic solvent (thinner, gasoline etc.).**

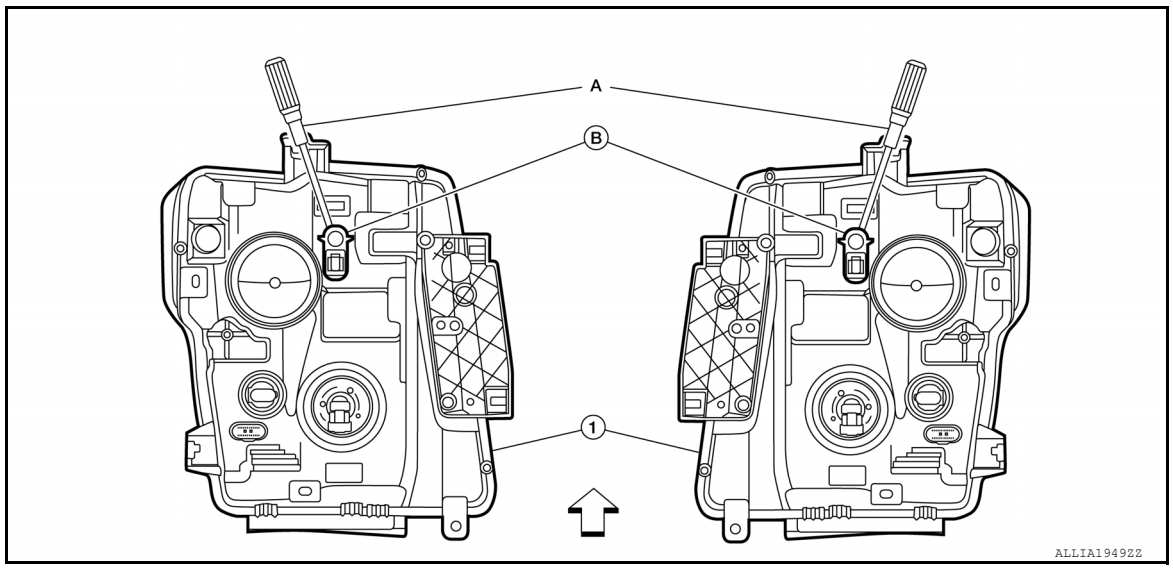
- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight-ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

**NOTE:**

- For headlamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- Perform headlamp aiming if:

- The vehicle front body has been repaired.
- The front combination lamp has been removed or replaced.
- Any outfitting has been installed.
- The vehicle's standard load condition has been substantially increased.

#### AIMING ADJUSTMENT SCREW

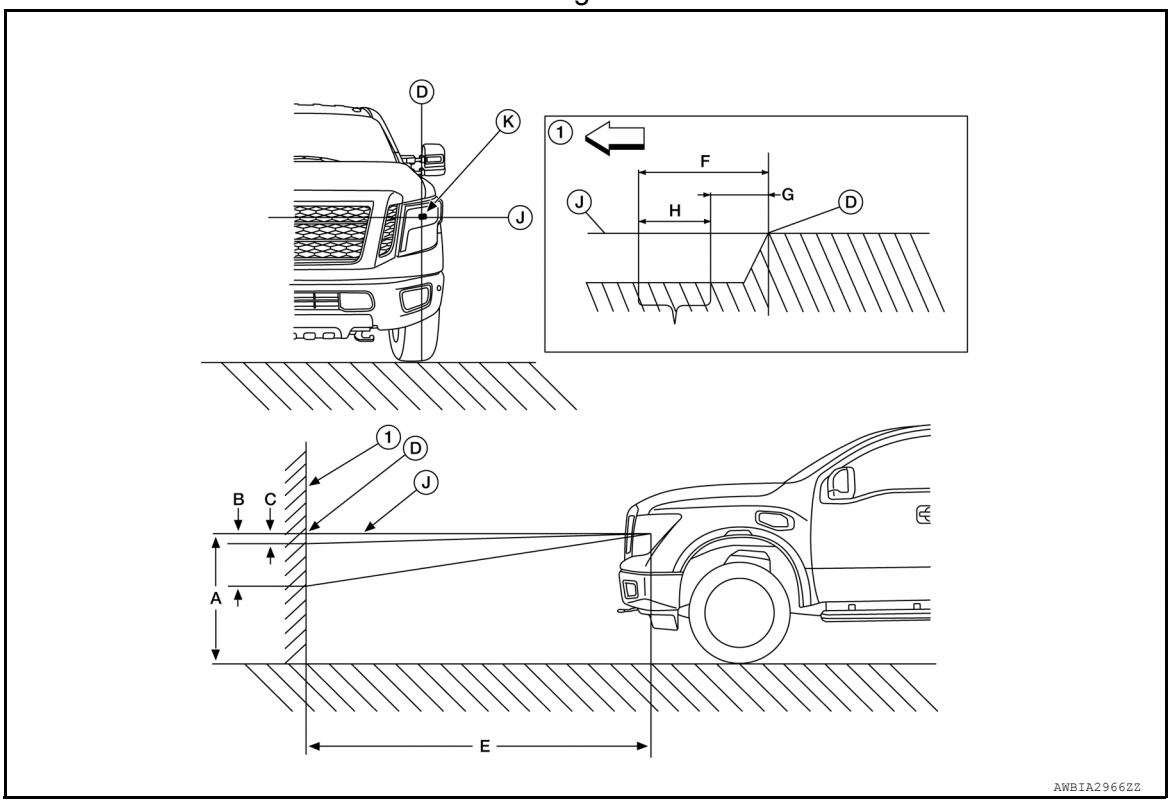



1. Front combination lamp
A. Suitable tool
B. Adjusting screw
⇦ Front

# HEADLAMP : Aiming Adjustment Procedure

INFOID:0000000014638163

Aiming Chart




| | | | | | |
|---|---|---|---|---|---|
| 1. | Adjustment screen | A. | Distance of horizontal aiming evaluation line from ground | B. | Minimum cutoff line height |
| C. | Maximum cutoff line height | D. | Vertical aiming evaluation line | E. | 7.6 m (25 ft) |
| F. | Maximum aim evaluation distance from vertical center on aiming screen 466 mm (18.3 in) [3.5°L] | G. | Minimum aim evaluation distance from vertical center on aiming screen 200 mm (7.9 in) [1.5°L] | H. | Aim evaluation area |
| J. | Horizontal aiming evaluation line | K. | Center of headlamp bulb | ⇨ | Right |

| | | |
|---|---|---|
| **B (Minimum cutoff line height)** | **93.1 mm (3.7 in)** | **0.7° down** |
| **C (Maximum cutoff line height)** | **13.3 mm (0.5 in)** | **0.1° down** |

LOW BEAM AND HIGH BEAM

**NOTE:**

- Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.

1. Use adjustment screw to perform aiming adjustment.
   - **Ensure fog lamps are turned off.**
2. Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.
   **CAUTION:**
   **Do not cover the lens surface with tape, etc.**
3. Place the screen on the same level and flat surface as the vehicle.
   **NOTE:**
   Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.
4. Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.

**Distance between the headlamp center and the screen (E) : 7.6 m (25 ft)**

5. Start the engine. Turn the headlamp on.
6. Determine the preferred vertical aim range dimensions, using the aiming chart.
7. Measure the projected beam within the aim evaluation segment on the screen.
8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

# FRONT FOG LAMP

## FRONT FOG LAMP : Aiming Adjustment

INFOID:0000000014388879

### PREPARATION BEFORE ADJUSTING

The fog lamp is a semi-sealed beam type which uses a replaceable halogen bulb. Before performing aiming adjustment procedure, check the following:

- Ensure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Ensure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from headlamp lens.

**CAUTION:**
**Do not use organic solvent (thinner, gasoline etc.).**

- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight-ahead position.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from screen.

**NOTE:**

- For fog lamp aiming details, refer to regulations in your area.
- By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.
- Use adjusting screw to perform aiming adjustment.
- Perform fog lamp aiming if:

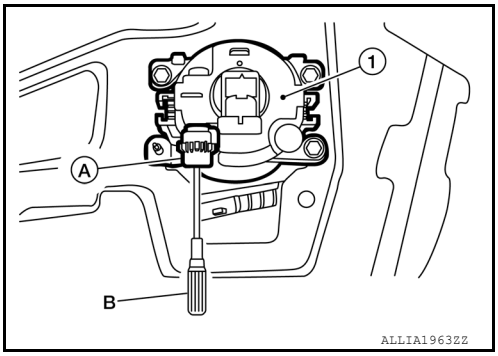
- The vehicle front body has been repaired.
- The front fog lamp has been removed or replaced.
- Any outfitting has been installed.
- The vehicle’s standard load condition has been substantially increased.

### 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 at the screen. Maintain 7.62 m (25.00 ft) between the front fog lamp center and the screen.
3. Start the engine. Turn the front fog lamp ON.
   **NOTE:**
   Block the headlamp light with the board to prevent from illuminating the adjustment screen.
   **CAUTION:**
   **Do not cover the lens surface with a tape etc. The lens is made of resin.**

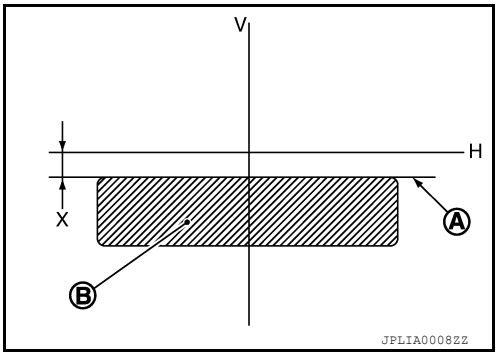
4. Adjust aiming by turning the adjusting screw (A) with suitable tool (B).
**NOTE:**
LH shown, RH similar

| | |
|---|---|
| 1. | Front fog lamp assembly |




5. Adjust the cutoff line height (X) with the aiming adjustment screw so that the distance (X) between the horizontal center line of front fog lamp (H) and cutoff line (A) becomes 100 mm (4 in).

(A) : Cutoff line
(B) : High illuminance area
(H) : Horizontal center line of front fog lamp
(V) : Vertical center line of front fog lamp
(X) : Cutoff line height

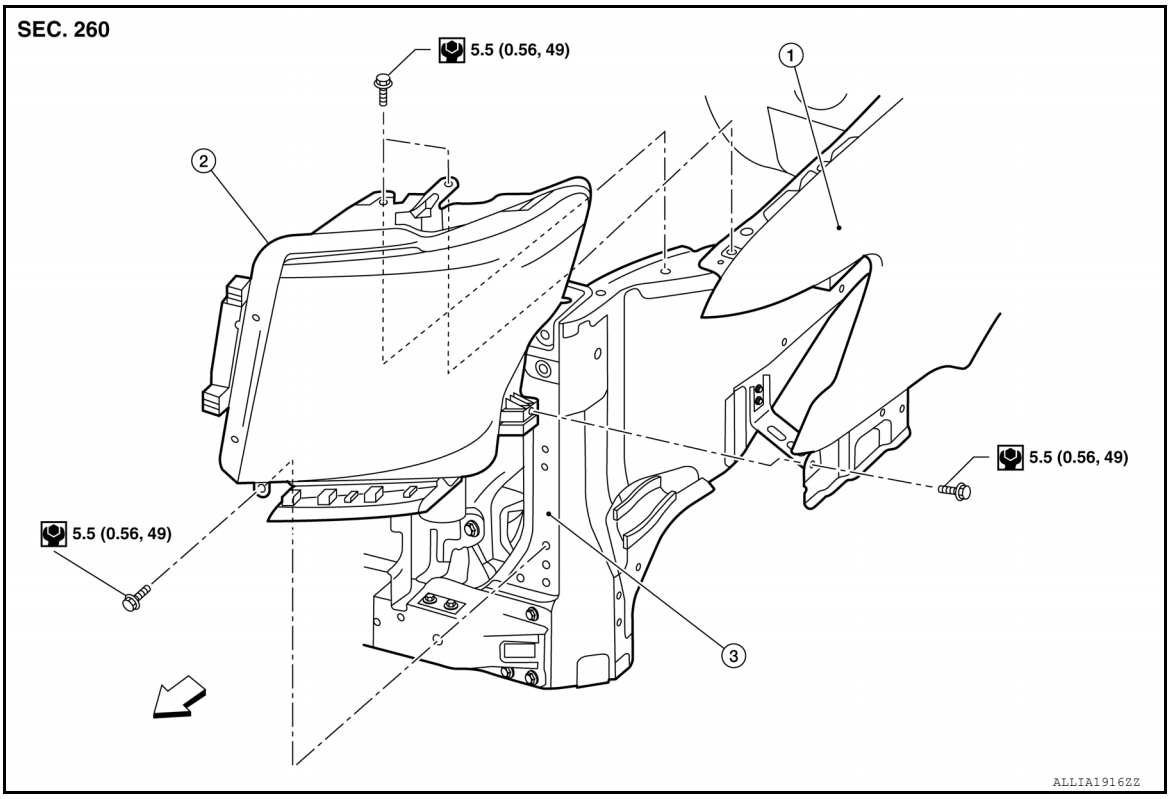


# REMOVAL AND INSTALLATION

## FRONT COMBINATION LAMP

### Exploded View

INFOID:0000000014388880




1. Front fender
2. Front combination lamp
3. Radiator core support

⇦ Front

**NOTE:**
- LH shown, RH similar.
- XD Model shown, Non-XD Model similar.

### Removal and Installation

INFOID:0000000014388881

#### FRONT COMBINATION LAMP

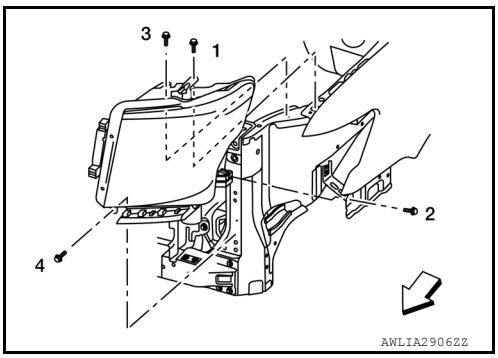
REMOVAL

1. Partially remove fender protector. Refer to EXT-41, "Exploded View - Front Fender Protector".
2. Partially remove front over fender. Refer to EXT-43, "FRONT OVER FENDER : Exploded View".
3. Remove front grille. Refer to EXT-32, "Removal and Installation".
4. Disconnect front camera. Refer to AV-361, "Removal and Installation".
5. Remove front fascia upper. Refer to EXT-26, "Removal and Installation - Bumper Fascia Upper".
6. Remove bolts, disconnect the harness connector from the front combination lamp and remove.

INSTALLATION

1. Install bolts in the following torque sequence: (1) bump/hand start, (2), (3), (4), (1) full run down.

⇦ : Front




Remainder of installation is in the reverse order of removal.

**CAUTION:**

**Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit. Refer to AV-332, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure".**

**NOTE:**

After installation perform headlamp aiming adjustment. Refer to EXL-288, "HEADLAMP : Aiming Adjustment Procedure".

## Bulb Replacement

INFOID:0000000014388882

**CAUTION:**

- **Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.**
- **Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.**

### HEADLAMP - LOW/HIGH BEAM

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove front combination lamp. Refer to EXL-291, "Removal and Installation".
2. Turn headlamp bulb counterclockwise and remove bulb.

INSTALLATION

Installation is in the reverse order of removal.

### FRONT TURN SIGNAL

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove the front combination lamp. Refer to EXL-291, "Removal and Installation".
2. Turn the bulb socket counterclockwise.
3. Pull the bulb to remove it from the socket.

INSTALLATION

Installation is in the reverse order of removal.

### FRONT SIDE MARKER LAMP

REMOVAL

**WARNING:**

**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**

1. Remove the front combination lamp. Refer to EXL-291, "Removal and Installation".
2. Turn the bulb socket counterclockwise.
3. Pull to remove side marker bulb from the side marker bulb socket.

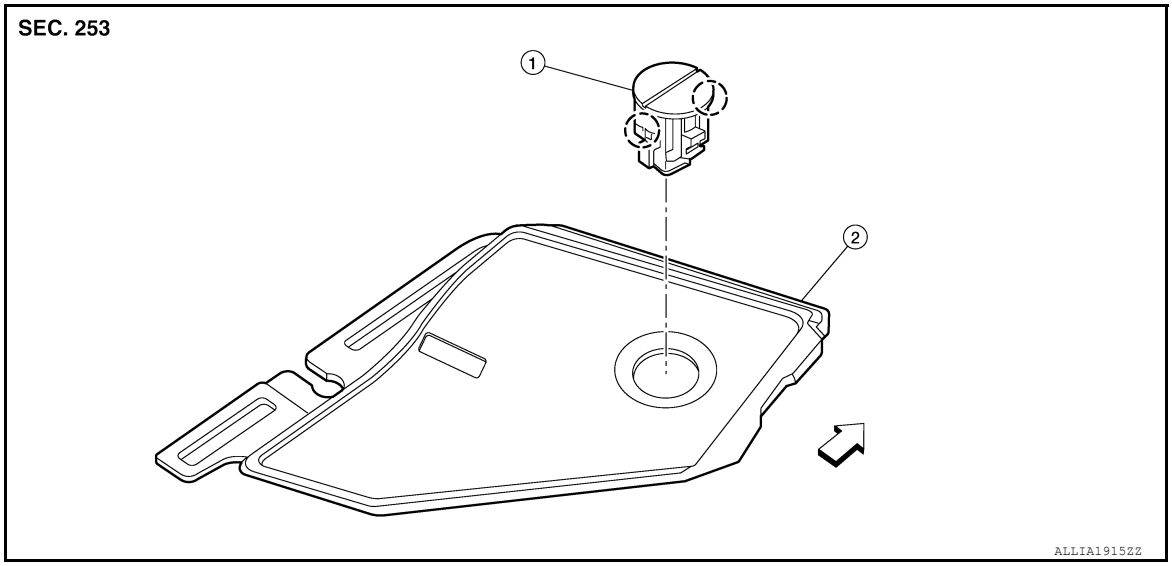
INSTALLATION

Installation is in the reverse order of removal.

# OPTICAL SENSOR

## Exploded View

INFOID:0000000014388883




1. Optical sensor
2. Instrument panel tweeter grille
Pawl
Front

## Removal and Installation

INFOID:0000000014388884

### REMOVAL

1. Using suitable tool, release pawls and pull up on optical sensor.
2. Disconnect the harness connector from the optical sensor and remove.

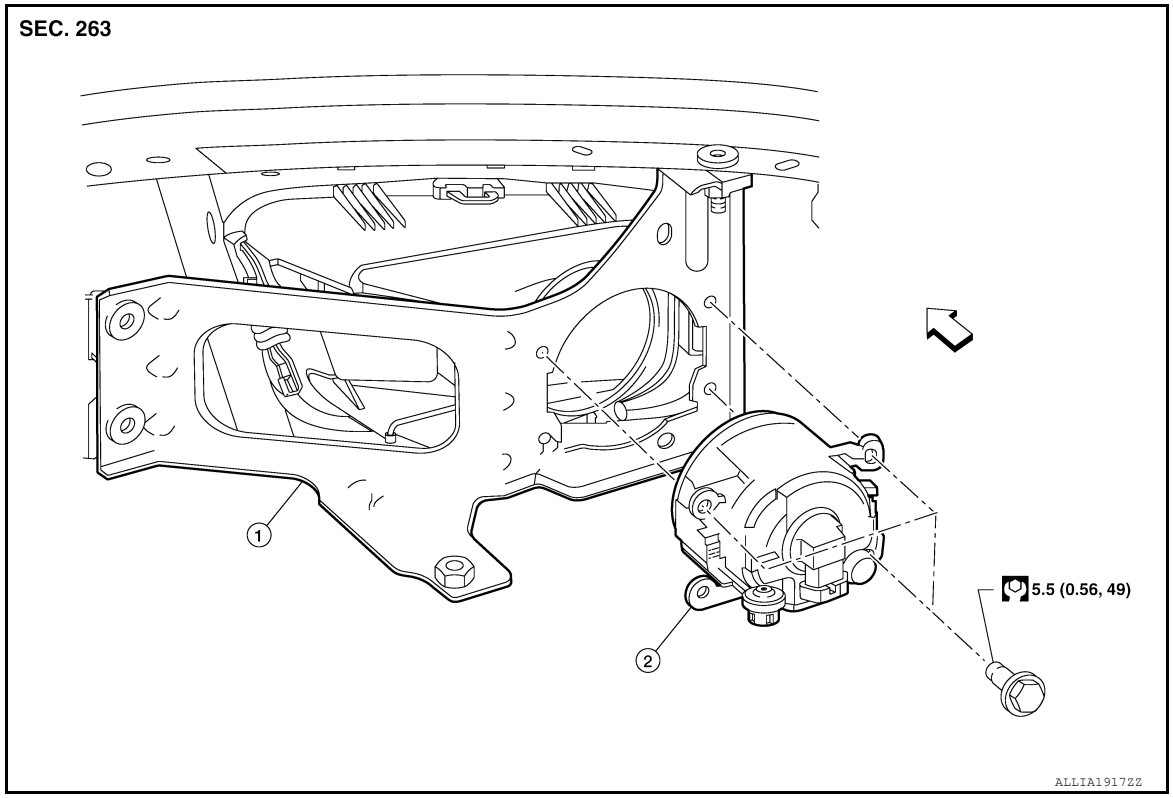
### INSTALLATION

Installation is in the reverse order of removal.

# FRONT FOG LAMP

## Exploded View

INFOID:0000000014388885




1. Front bumper stay
2. Front fog lamp
⇦ Front

**NOTE:**
RH shown, LH similar

## Removal and Installation

INFOID:0000000014388886

### FRONT FOG LAMP

REMOVAL

1. Disconnect the harness connector from the front fog lamp.
2. Remove bolts and front fog lamp.

INSTALLATION
Installation is in the reverse order of removal.
**NOTE:**
After installation perform front fog lamp aiming adjustment. Refer to EXL-289, "FRONT FOG LAMP : Aiming Adjustment".

## Bulb Replacement

INFOID:0000000014388887

### FRONT FOG LAMP

REMOVAL

**WARNING:**
**Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch the glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to the bulb.**

- **Do not leave the bulb out of the lamp reflector for a long time because dust, moisture, smoke, etc. may affect the performance of the lamp.**

1. Disconnect the harness connector from the front fog lamp.
2. Rotate front fog lamp socket counterclockwise and remove.

INSTALLATION

Installation is in the reverse order of removal.

# COMBINATION SWITCH

## Removal and Installation

INFOID:0000000014388888

### REMOVAL

**CAUTION:**

- **Before servicing, turn the ignition switch OFF, disconnect both battery terminals and wait at least three minutes.**
- **Do not use air tools or electric tools for servicing.**

**NOTE:**

Shown with steering wheel removed for clarity only.

1. Disconnect the battery or batteries. Refer to PG-185, "Battery Disconnect".
2. Remove the steering column covers. Refer to ST-39, "Removal and Installation".
3. Remove the combination switch bolts.
4. Disconnect the harness connector from the combination switch.
5. Remove the combination switch.

| | |
|---|---|
| **Combination switch bolts** | **:3.5 Nm (0.36 kg-m, 31 in-lb)** |

### INSTALLATION

Installation is in the reverse order of removal.

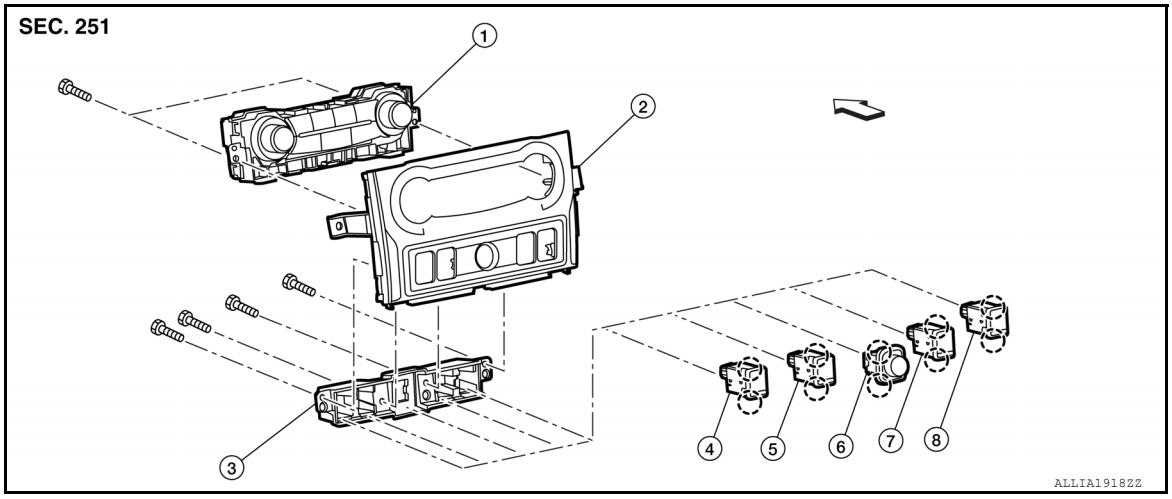
**CAUTION:**

- **After the work is completed, make sure no system malfunction is detected by air bag warning lamp.**
- **In case a malfunction is detected by the air bag warning system lamp, reset with the self-diagnosis function and delete the memory with CONSULT SRC-17, "CONSULT Function (AIR BAG)".**
- **If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to SRC-51, "Work Flow".**

# HAZARD SWITCH

## Exploded View

INFOID:0000000014388889




1. A/C switch assembly
2. Cluster lid C
3. Switch carrier
4. VDC OFF switch
5. Sonar system off switch (if equipped)
6. Hazard switch
7. Blind spot warning switch (if equipped)
8. Heated steering wheel switch (if equipped)

⇦ Front

## Removal and Installation

INFOID:0000000014388890

### REMOVAL

1. Remove cluster lid C. Refer to IP-20, "Removal and Installation".
2. Remove screws from switch carrier.
3. Remove switch carrier from cluster lid C.
4. Release pawls and disconnect the harness connector from the hazard switch.
5. Remove hazard switch.

### INSTALLATION

Installation is in the reverse order of removal.

# LIGHTING SWITCH

## Removal and Installation

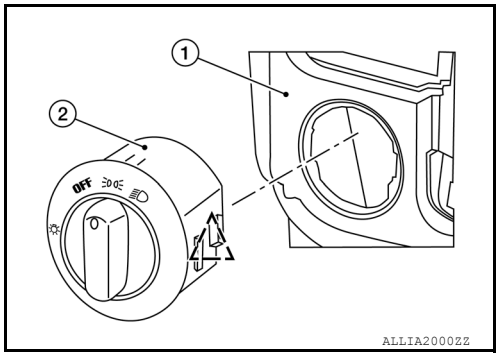
INFOID:0000000014388891

### REMOVAL

1. Remove cluster lid A, refer to IP-19, "Removal and Installation".
2. Using a suitable tool, release clip.

(1) : Cluster lid A
: Clip

3. Disconnect the harness connector from the lighting switch (2) and remove.



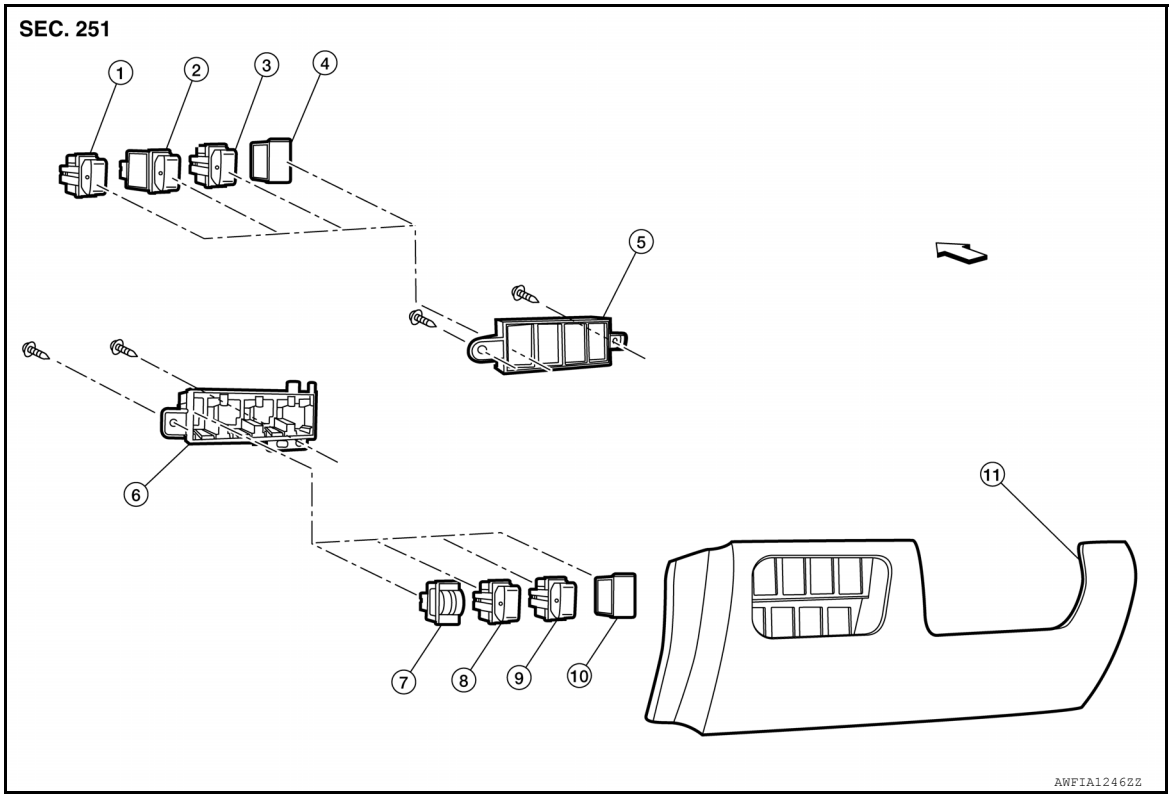

### INSTALLATION

Installation is in the reverse order of removal.

# HEADLAMP AIMING SWITCH

## Exploded View

INFOID:0000000014388892




| | | | | | |
|---|---|---|---|---|---|
| 1. | Front fog lamp switch (if equipped) | 2. | AC 120v outlet main switch (if equipped) | 3. | Cargo lamp switch |
| 4. | Mask | 5. | Upper switch carrier | 6. | Lower switch carrier |
| 7. | Headlamp aiming switch | 8. | Differential lock mode switch (if equipped) | 9. | Hill descent control switch (if equipped) |
| 10. | Mask | 11. | Instrument lower panel LH | ⇦ | Front |

## Removal and Installation

INFOID:0000000014388893

### REMOVAL

1. Remove instrument lower panel LH, refer to IP-22, "Removal and Installation".
2. Remove screws from upper switch carrier.
3. Remove upper switch carrier from instrument lower panel LH.
4. Remove screws from lower switch carrier.
5. Remove lower switch carrier from instrument lower panel LH.
6. Using a suitable tool, release pawls and remove headlamp aiming switch.

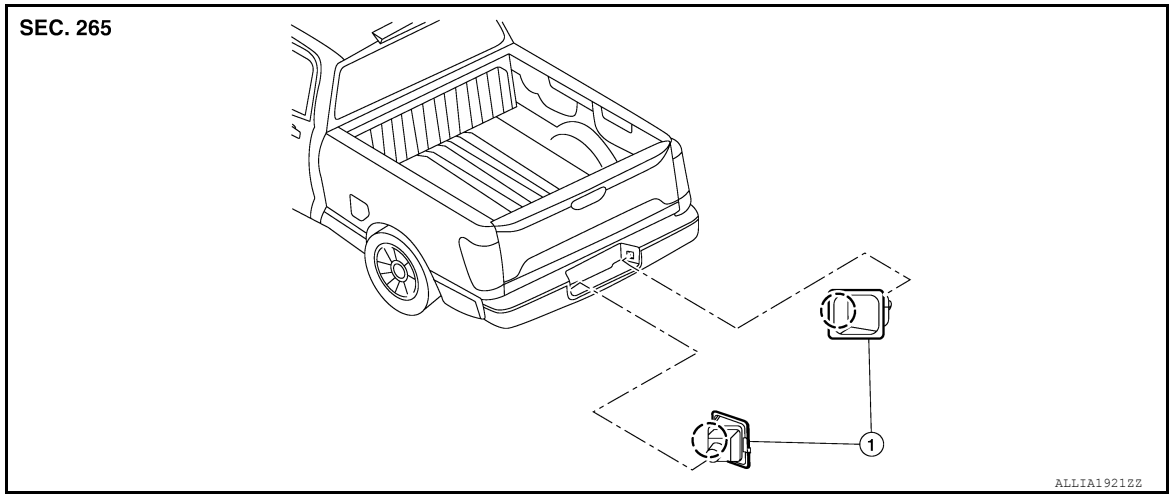
### INSTALLATION

Installation is in the reverse order of removal.

# LICENSE PLATE LAMP

## Exploded View

INFOID:0000000014388894




1. License plate lamp
Pawl

## Removal and Installation

INFOID:0000000014388895

### LICENSE PLATE LAMP

REMOVAL

1. Disconnect the harness connector from the license plate lamp.
2. Using a suitable tool, release pawl and remove license plate lamp.

INSTALLATION

Installation is in the reverse order of removal.

## Bulb Replacement

INFOID:0000000014388896

### LICENSE PLATE LAMP BULB

The license plate lamp bulb is LED and not serviced separately. Refer to EXL-301, "Removal and Installation".

# DOOR MIRROR TURN SIGNAL LAMP

## Removal and Installation

INFOID:0000000014388897

### REMOVAL and INSTALLATION

The door mirror turn signal lamp is serviced as part of the door mirror. Refer to MIR-31, "Removal and Installation".

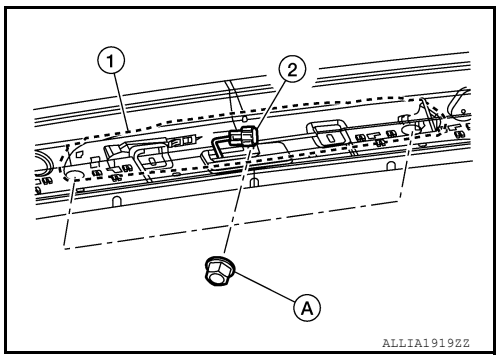
# HIGH-MOUNTED STOP LAMP

## Removal and Installation

INFOID:0000000014388898

### REMOVAL

1. Remove headlining. Refer to INT-32, "Removal and Installation".
2. Disconnect the harness connector (2) from the high-mounted stop lamp (1).
3. Remove high-mounted stop lamp nuts (A).




4. Pull the high-mounted stop lamp toward rear of the vehicle to remove.

### INSTALLATION

Installation is in the reverse order of removal.

## Bulb Replacement

INFOID:0000000014388899

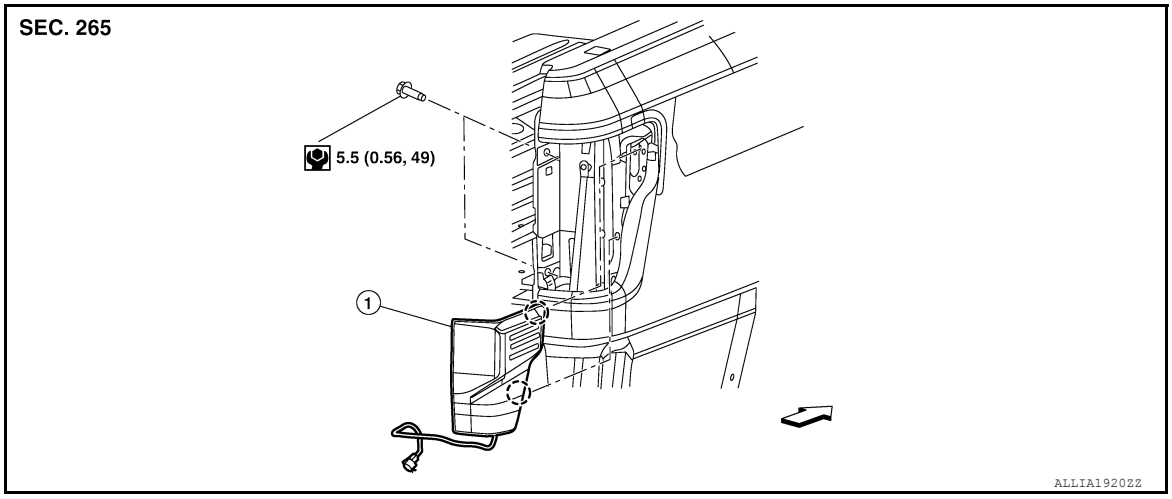
### HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is LED and not serviced separately. Refer to EXL-303, "Removal and Installation".

# REAR COMBINATION LAMP

## Exploded View

INFOID:0000000014388900




1. Rear combination lamp
Pawl
Front

**NOTE:**
RH shown, LH similar.

## Removal and Installation

INFOID:0000000014388901

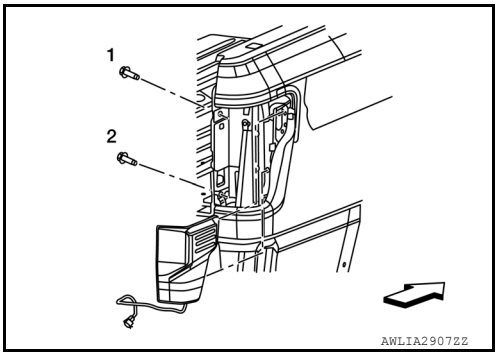
### REMOVAL

1. Remove rear combination lamp bolts.
2. Disconnect the harness connector from the rear combination lamp and remove.

### INSTALLATION

1. Connect the harness connector to the rear combination lamp.
2. Install bolts in the following torque sequence: (1), (2).

: Front




## Bulb Replacement

INFOID:0000000014388902

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **After installing bulb, install bulb socket securely for watertightness.**

### STOP LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-304, "Removal and Installation".
2. Rotate stop lamp bulb socket counterclockwise and remove.
3. Remove stop lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## BACKUP LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-304, "Removal and Installation".
2. Rotate backup lamp bulb socket counterclockwise and remove.
3. Remove backup lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## TURN SIGNAL/ TAIL LAMP BULB

REMOVAL

1. Remove rear combination lamp. Refer to EXL-304, "Removal and Installation".
2. Rotate turn signal/ tail lamp bulb socket counterclockwise and remove.
3. Remove turn signal/ tail lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

## TAILGATE CARGO LAMP BULB (if equipped)

REMOVAL

1. Remove rear combination lamp. Refer to EXL-304, "Removal and Installation".
2. Rotate tailgate cargo lamp bulb socket counterclockwise and remove.
3. Remove tailgate cargo lamp bulb from bulb socket.

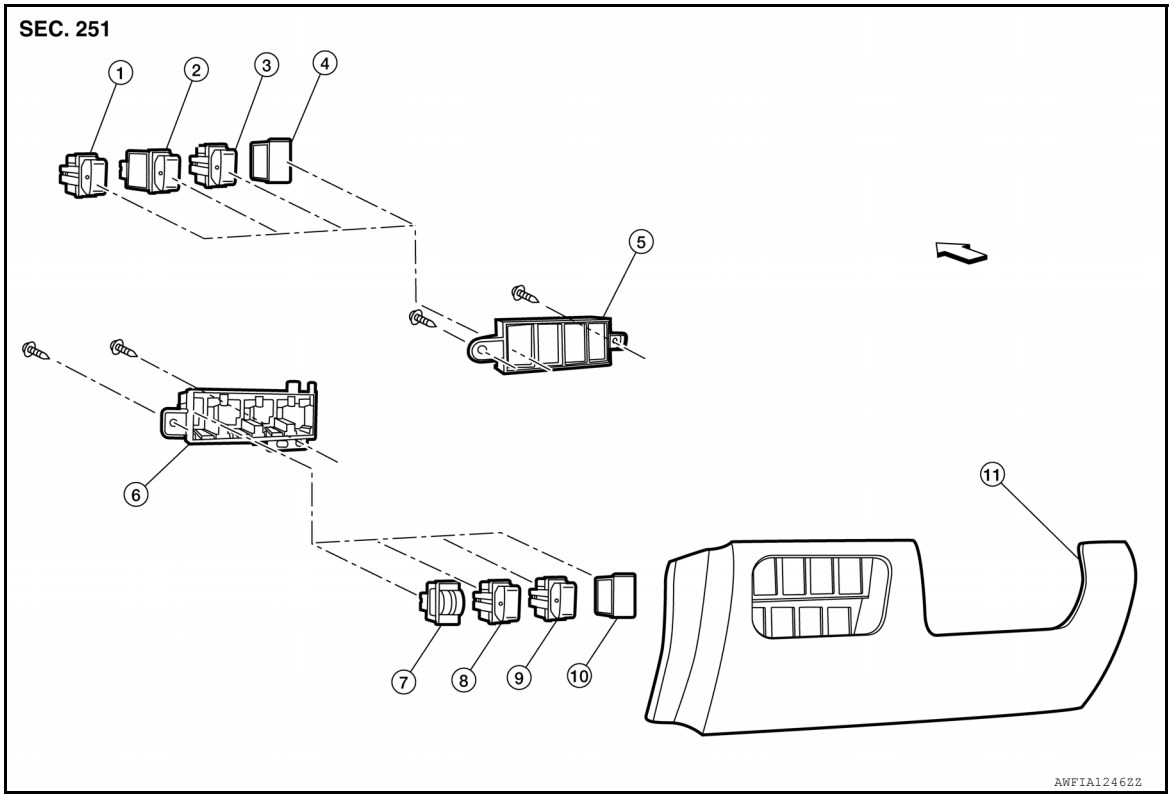
INSTALLATION

Installation is in the reverse order of removal.

# FRONT FOG LAMP SWITCH

## Exploded View

INFOID:0000000014388903




| | | | | | |
|---|---|---|---|---|---|
| 1. | Front fog lamp switch | 2. | AC 120v outlet main switch (if equipped) | 3. | Cargo lamp switch |
| 4. | Mask | 5. | Upper switch carrier | 6. | Lower switch carrier |
| 7. | Headlamp aiming switch | 8. | Differential lock mode switch (if equipped) | 9. | Hill descent control switch (if equipped) |
| 10. | Mask | 11. | Instrument lower panel LH | ⇦ | Front |

## Removal and Installation

INFOID:0000000014388904

### REMOVAL

1. Remove instrument lower panel LH, refer to IP-22, "Removal and Installation".
2. Remove screws from upper switch carrier.
3. Remove upper switch carrier from instrument lower panel LH.
4. Using a suitable tool, release pawls and remove front fog lamp switch.

### INSTALLATION

Installation is in the reverse order of removal.

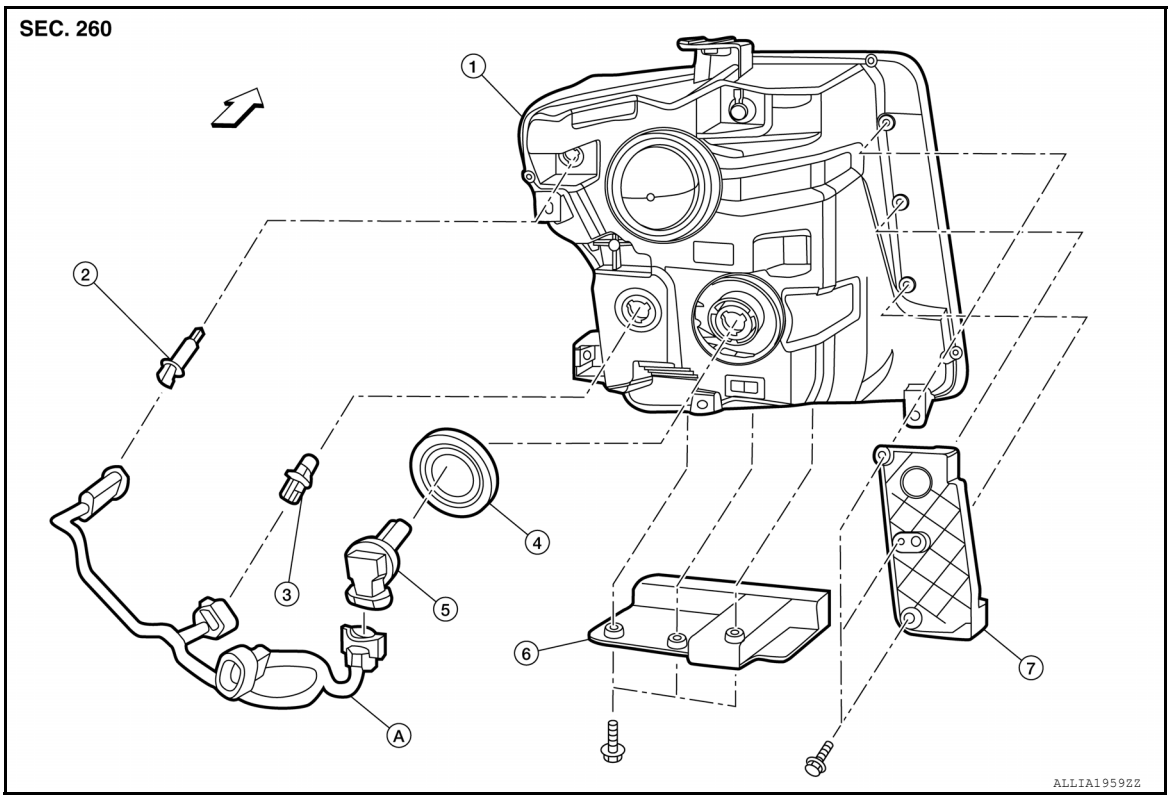
# UNIT DISASSEMBLY AND ASSEMBLY

## FRONT COMBINATION LAMP

### Exploded View

INFOID:0000000014388905

DISASSEMBLY




| | | |
|---|---|---|
| 1. Front combination lamp | 2. Side marker bulb | 3. Turn signal lamp bulb |
| 4. Grommet | 5. High beam lamp bulb | 6. Grille bracket |
| 7. Fascia bracket | A. Harness connector | ⇦ Front |

### Disassembly and Assembly

INFOID:0000000014388906

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **During assembly, be sure to install bulb sockets securely to ensure watertightness.**

**NOTE:**
The headlamp (low beam) bulb is LED and not serviced separately. Refer to EXL-291, "Removal and Installation".

DISASSEMBLY

1. Remove front combination lamp. Refer to EXL-291, "Removal and Installation".
2. Rotate headlamp (high beam) bulb counterclockwise and remove.
3. Disconnect the harness connector from the headlamp (high beam) bulb.
4. Rotate turn signal lamp bulb socket counterclockwise and remove.
5. Remove turn signal lamp bulb from bulb socket.
6. Rotate side marker lamp bulb socket counterclockwise and remove.

7. Remove side marker lamp bulb from bulb socket.

## ASSEMBLY

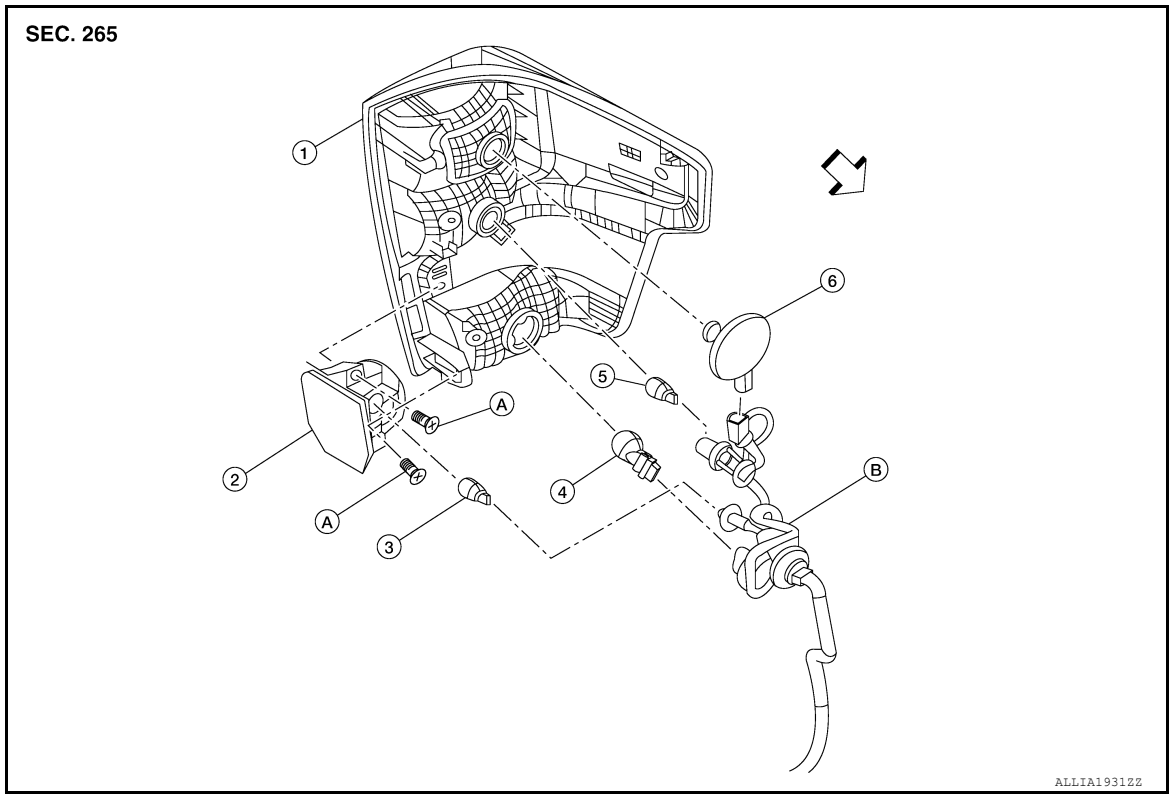
Assembly is in the reverse order of disassembly.

# REAR COMBINATION LAMP

## Exploded View

INFOID:0000000014388907

### DISASSEMBLY




| | | |
|---|---|---|
| 1. Rear combination lamp | 2. Tailgate cargo lamp (if equipped) | 3. Tailgate cargo lamp bulb (if equipped) |
| 4. Turn signal/ tail lamp bulb | 5. Backup lamp bulb | 6. Stop lamp bulb |
| A. Screw | B. Harness connector | ⇦ Front |

**NOTE:**
LH shown, RH similar.

## Disassembly and Assembly

INFOID:0000000014388908

**WARNING:**
**Do not touch bulb with bare hand while it is lit or right after being turned off. Burning may result.**
**CAUTION:**
- **Do not touch glass surface of bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**
- **Do not leave bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect performance of lamp. When replacing bulb, be sure to replace it with new one.**
- **During assembly, be sure to install bulb sockets securely to ensure watertightness.**

### DISASSEMBLY

1. Remove rear combination lamp. Refer to EXL-304, "Removal and Installation".
2. Rotate stop lamp bulb socket counterclockwise and remove.
3. Remove stop lamp bulb from bulb socket.
4. Rotate turn signal lamp bulb socket counterclockwise and remove.
5. Remove turn signal lamp bulb from bulb socket.

### ASSEMBLY

Assembly is in the reverse order of disassembly.

# SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### Bulb Specifications

INFOID:0000000014388909

| Item | | Type | Wattage (W) |
|---|---|---|---|
| Front combination lamp | High beam | HB3 | 60 |
| | Low beam | LED | — |
| | Turn signal lamp | 7444NA | 28/8 |
| | Side marker lamp | W5W | 5 |
| | Daytime running lamp | LED | — |
| Front fog lamp | | H11 | 55 |
| Door mirror turn signal lamp | | LED | — |
| Rear combination lamp | Stop lamp | L1224R | 3.5 |
| | Backup lamp | 921 | 16 |
| | Turn signal/ Tail lamp | 3057K | 27/7 |
| | Tailgate cargo lamp (if equipped) | 921 | 16 |
| License plate lamp | | LED | — |
| High-mounted stop lamp | | LED | — |

*: Always check with the Parts Department for the latest parts info.