SECTION EXL
EXTERIOR LIGHTING SYSTEM

CONTENTS

HALOGEN HEADLAMP

PRECAUTION 7

PRECAUTIONS 7
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 7
Precaution for Work 7

PREPARATION 8

PREPARATION 8
Special Service Tool 8

SYSTEM DESCRIPTION 9

COMPONENT PARTS 9
Component Parts Location 9
Optical Sensor 11
Hazard Switch 11

SYSTEM 12

HEADLAMP SYSTEM 12
HEADLAMP SYSTEM : System Description 12
HEADLAMP SYSTEM : Fail-Safe 12

AUTO LIGHT SYSTEM 13
AUTO LIGHT SYSTEM : System Description 13

DAYTIME RUNNING LIGHT SYSTEM 14
DAYTIME RUNNING LIGHT SYSTEM : System Description 14

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM 14
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description 15

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM 15
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description 15
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : Fail-Safe 16

FRONT FOG LAMP SYSTEM 16
FRONT FOG LAMP SYSTEM : System Description 17
FRONT FOG LAMP SYSTEM : Fail-Safe 17

EXTERIOR LAMP BATTERY SAVER SYSTEM 17
EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description 18

DIAGNOSIS SYSTEM (BCM) 19

COMMON ITEM 19
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM) 19

HEADLAMP 19
HEADLAMP : CONSULT Function (BCM - HEADLAMP) 19

FLASHER 21
FLASHER : CONSULT Function (BCM - FLASHER) 21

COMB SW 21
COMB SW : CONSULT Function (BCM - COMB SW) 21

BATTERY SAVER 22
BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) 22

DIAGNOSIS SYSTEM (IPDM E/R) 23
CONSULT Function (IPDM E/R) 23

ECU DIAGNOSIS INFORMATION 28

BCM, IPDM E/R 28
List of ECU Reference 28

WIRING DIAGRAM 29

HEADLAMP 29
Wiring Diagram 29

DAYTIME RUNNING LIGHT SYSTEM 34
Wiring Diagram 34

AUTO LIGHT SYSTEM 41
Wiring Diagram 41

FRONT FOG LAMP SYSTEM 47
Wiring Diagram 47

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM 52
Wiring Diagram 52

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM 60
Wiring Diagram 60

STOP LAMP 70
Wiring Diagram 70

BACK-UP LAMP 74
Wiring Diagram 74

BASIC INSPECTION 79

DIAGNOSIS AND REPAIR WORKFLOW 79
Work Flow 79

DTC/CIRCUIT DIAGNOSIS 82

POWER SUPPLY AND GROUND CIRCUIT 82

BCM 82
BCM : Diagnosis Procedure 82

OPTICAL SENSOR 84
Component Function Check 84
Diagnosis Procedure 84

HAZARD SWITCH 87
Component Function Check 87
Diagnosis Procedure 87

TURN SIGNAL LAMP CIRCUIT 89
Description 89
Component Function Check 89
Diagnosis Procedure 89

B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT 93
DTC Logic 93
Diagnosis Procedure 93

B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT 94
DTC Logic 94
Diagnosis Procedure 94

B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT 95
DTC Logic 95
Diagnosis Procedure 95

B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT 96
DTC Logic 96
Diagnosis Procedure 96

B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT 97
DTC Logic 97
Diagnosis Procedure 97

B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT 98
DTC Logic 98
Diagnosis Procedure 98

B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT 99
DTC Logic 99
Diagnosis Procedure 99

B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT 100
DTC Logic 100
Diagnosis Procedure 100

B20D2 PARKING LAMP POWER SUPPLY CIRCUIT 101
DTC Logic 101
Diagnosis Procedure 101

B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT 103
DTC Logic 103
Diagnosis Procedure 103

B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT 104
DTC Logic 104
Diagnosis Procedure 104

SYMPTOM DIAGNOSIS 105

EXTERIOR LIGHTING SYSTEM SYMPTOMS. 105
Symptom Table 105

NORMAL OPERATING CONDITION 107
Description 107

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON 108
Description 108
Diagnosis Procedure 108

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON 109
Description 109

Diagnosis Procedure 109

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON ... 110
Description 110
Diagnosis Procedure 110

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON 111
Description 111
Diagnosis Procedure 111

PERIODIC MAINTENANCE 112

HEADLAMP AIMING ADJUSTMENT 112
Inspection 112
Aiming Adjustment Procedure 113

FRONT FOG LAMP AIMING ADJUSTMENT .. 115
Aiming Adjustment Procedure 115

REMOVAL AND INSTALLATION 116

FRONT COMBINATION LAMP 116
Exploded View 116
Removal and Installation 116
Bulb Replacement 116

FRONT FOG LAMP 118
Exploded View 118
Removal and Installation 118
Bulb Replacement 118

OPTICAL SENSOR 120
Exploded View 120
Removal and Installation 120

COMBINATION SWITCH 121
Exploded View 121
Removal and Installation 121

HAZARD SWITCH 122
Exploded View 122
Removal and Installation 122

SIDE TURN SIGNAL LAMP 123
Removal and Installation 123
Bulb Replacement 123

REAR COMBINATION LAMP 124
Exploded View 124
Removal and Installation 124
Bulb Replacement 124

HIGH-MOUNTED STOP LAMP 126
Exploded View 126
Removal and Installation 126
Bulb Replacement 126

BACK-UP LAMP ASSEMBLY 127
Exploded View 127
Removal and Installation 127
Bulb Replacement 127

LICENSE PLATE LAMP 129
Exploded View 129
Removal and Installation 129
Bulb Replacement 129

UNIT DISASSEMBLY AND ASSEMBLY . 131

FRONT COMBINATION LAMP 131
Exploded View 131
Disassembly and Assembly 131

REAR COMBINATION LAMP 132
Exploded View 132
Disassembly and Assembly 132

SERVICE DATA AND SPECIFICATIONS (SDS) 133

SERVICE DATA AND SPECIFICATIONS (SDS) 133
Bulb Specifications 133

LED HEADLAMP

PRECAUTION 134

PRECAUTIONS 134
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 134
Precaution for Work 134

PREPARATION 135

PREPARATION 135
Special Service Tool 135

SYSTEM DESCRIPTION 136

COMPONENT PARTS 136
Component Parts Location 136
Optical Sensor 138
Hazard Switch 138

SYSTEM 139

HEADLAMP SYSTEM 139
HEADLAMP SYSTEM : System Description 139
HEADLAMP SYSTEM : Fail-Safe 139

AUTO LIGHT SYSTEM 140
AUTO LIGHT SYSTEM : System Description 140

HIGH BEAM ASSIST SYSTEM 141
HIGH BEAM ASSIST SYSTEM : System Description 141

DAYTIME RUNNING LIGHT SYSTEM 142
DAYTIME RUNNING LIGHT SYSTEM : System Description 142

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM 143
TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description 143

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM 143
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System Description..144
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : Fail-Safe 144

FRONT FOG LAMP SYSTEM 144
FRONT FOG LAMP SYSTEM : System Description 145
FRONT FOG LAMP SYSTEM : Fail-Safe 145

EXTERIOR LAMP BATTERY SAVER SYSTEM 145
EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description 146

DIAGNOSIS SYSTEM (BCM) 147

COMMON ITEM 147
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM) 147

HEADLAMP 147
HEADLAMP : CONSULT Function (BCM - HEADLAMP) 147

FLASHER 149
FLASHER : CONSULT Function (BCM - FLASHER) 149

COMB SW 149
COMB SW : CONSULT Function (BCM - COMB SW) 149

BATTERY SAVER 150
BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER) 150

DIAGNOSIS SYSTEM (IPDM E/R) 151
CONSULT Function (IPDM E/R) 151

ECU DIAGNOSIS INFORMATION 156

BCM, IPDM E/R 156
List of ECU Reference 156

WIRING DIAGRAM 157

HEADLAMP 157
Wiring Diagram 157

DAYTIME RUNNING LIGHT SYSTEM 162
Wiring Diagram 162

AUTO LIGHT SYSTEM 169
Wiring Diagram 169

FRONT FOG LAMP SYSTEM 175
Wiring Diagram 175

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM 180
Wiring Diagram 180

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM 188
Wiring Diagram 188

STOP LAMP 198
Wiring Diagram 198

BACK-UP LAMP 202
Wiring Diagram 202

BASIC INSPECTION 207

DIAGNOSIS AND REPAIR WORKFLOW 207
Work Flow 207

LED HEADLAMP OPERATION INSPECTION.210
Diagnosis Procedure 210

DTC/CIRCUIT DIAGNOSIS 211

POWER SUPPLY AND GROUND CIRCUIT ...211

BCM 211
BCM : Diagnosis Procedure 211

OPTICAL SENSOR 213
Component Function Check 213
Diagnosis Procedure 213

HAZARD SWITCH 216
Component Function Check 216
Diagnosis Procedure 216

TURN SIGNAL LAMP CIRCUIT 218
Description 218
Component Function Check 218
Diagnosis Procedure 218

B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT 222
DTC Logic 222
Diagnosis Procedure 222

B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT 223
DTC Logic 223
Diagnosis Procedure 223

B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT 224
DTC Logic 224
Diagnosis Procedure 224

B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT 225
DTC Logic 225

Diagnosis Procedure 225

B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT 226
DTC Logic 226
Diagnosis Procedure 226

B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT 227
DTC Logic 227
Diagnosis Procedure 227

B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT 228
DTC Logic 228
Diagnosis Procedure 228

B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT 229
DTC Logic 229
Diagnosis Procedure 229

B20D2 PARKING LAMP POWER SUPPLY CIRCUIT 230
DTC Logic 230
Diagnosis Procedure 230

B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT 232
DTC Logic 232
Diagnosis Procedure 232

B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT 233
DTC Logic 233
Diagnosis Procedure 233

B20E2 LED HEADLAMP RH 234
DTC Logic 234
Diagnosis Procedure 234

B20E3 LED HEADLAMP LH 235
DTC Logic 235
Diagnosis Procedure 235

SYMPTOM DIAGNOSIS 236

EXTERIOR LIGHTING SYSTEM SYMPTOMS. 236
Symptom Table 236

NORMAL OPERATING CONDITION 238
Description 238

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON 239
Description 239
Diagnosis Procedure 239

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON 240
Description 240
Diagnosis Procedure 240

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS ARE NOT TURNED ON ... 241
Description 241
Diagnosis Procedure 241

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON 242
Description 242
Diagnosis Procedure 242

PERIODIC MAINTENANCE 243

HEADLAMP AIMING ADJUSTMENT 243
Inspection 243
Aiming Adjustment Procedure 244

FRONT FOG LAMP AIMING ADJUSTMENT . 246
Aiming Adjustment Procedure 246

REMOVAL AND INSTALLATION 247

FRONT COMBINATION LAMP 247
Exploded View 247
Removal and Installation 247
Bulb Replacement 247

FRONT FOG LAMP 249
Exploded View 249
Removal and Installation 249
Bulb Replacement 249

OPTICAL SENSOR 251
Exploded View 251
Removal and Installation 251

COMBINATION SWITCH 252
Exploded View 252
Removal and Installation 252

HAZARD SWITCH 253
Exploded View 253
Removal and Installation 253

SIDE TURN SIGNAL LAMP 254
Removal and Installation 254
Bulb Replacement 254

REAR COMBINATION LAMP 255
Exploded View 255
Removal and Installation 255
Bulb Replacement 255

HIGH-MOUNTED STOP LAMP 257
Exploded View 257
Removal and Installation 257
Bulb Replacement 257

BACK-UP LAMP ASSEMBLY 258
Exploded View 258
Removal and Installation 258

Bulb Replacement 258

LICENSE PLATE LAMP 260
Exploded View 260
Removal and Installation 260
Bulb Replacement 260

UNIT DISASSEMBLY AND ASSEMBLY .. 262

FRONT COMBINATION LAMP 262
Exploded View 262
Disassembly and Assembly 262

REAR COMBINATION LAMP 263
Exploded View 263
Disassembly and Assembly 263

SERVICE DATA AND SPECIFICATIONS (SDS) 264

SERVICE DATA AND SPECIFICATIONS (SDS) 264
Bulb Specifications 264

PRECAUTION

PRECAUTIONS

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

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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:0000000014623063

- 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.

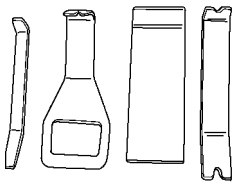
PREPARATION

PREPARATION

Special Service Tool

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

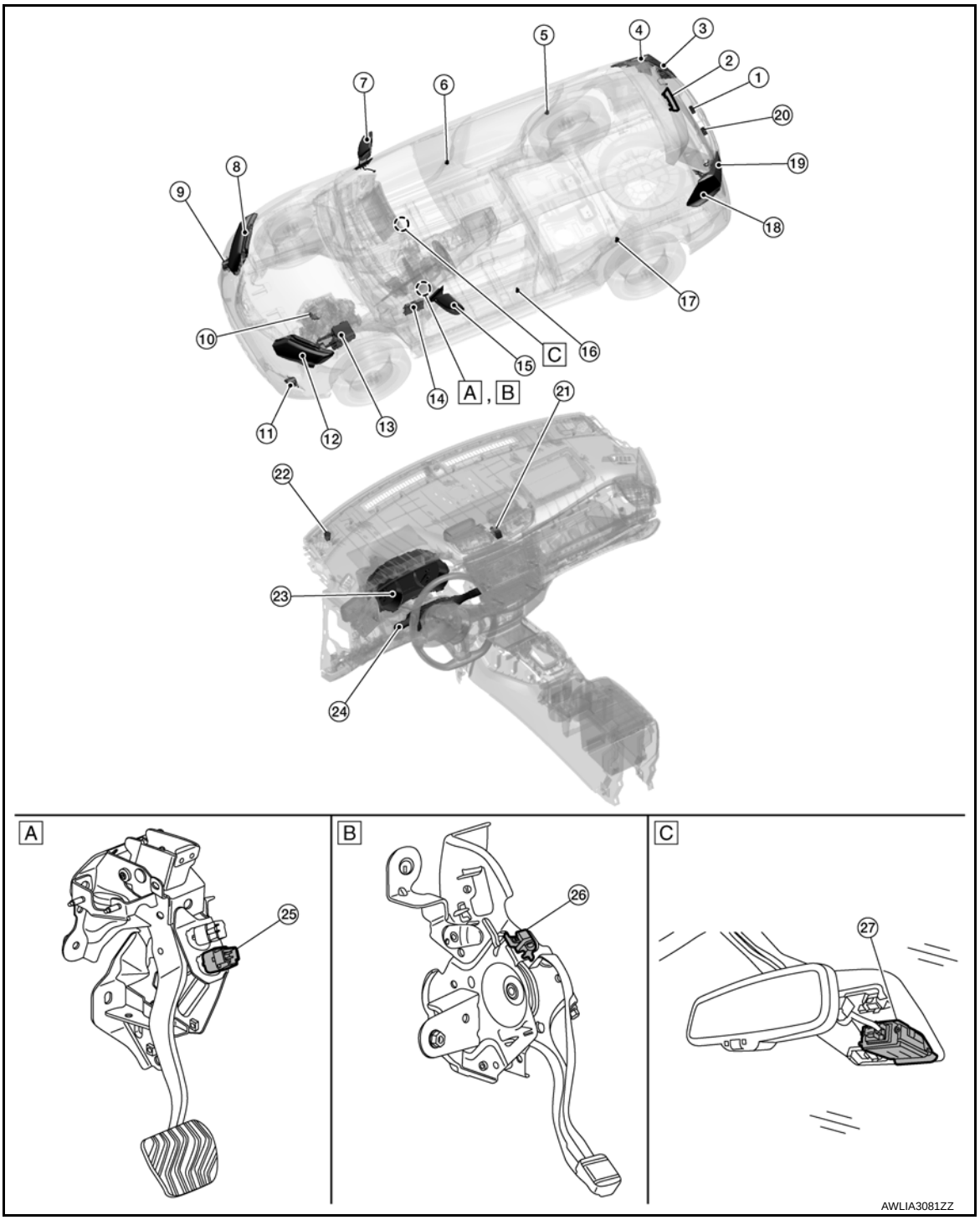
Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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A. View of brake pedal assembly (shown with pedal assembly removed)

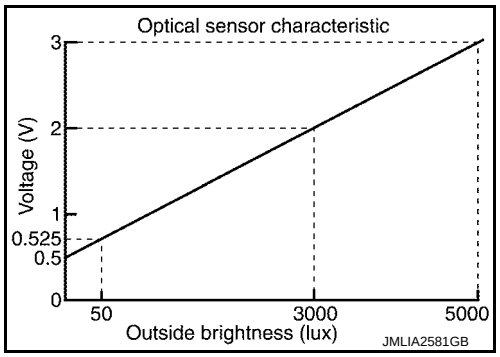
B. View of parking brake pedal assembly (shown with pedal assembly removed)

No.	Part	Function
1.	License plate lamp RH	Refer to EXL-133, "Bulb Specifications".
2.	High mount stop lamp	Refer to EXL-133, "Bulb Specifications".
3.	Stop lamp assembly RH	Refer to EXL-133, "Bulb Specifications".
4.	Rear combination lamp RH	Refer to EXL-133, "Bulb Specifications".
5.	Rear door switch RH	Transmits the door open signal to the BCM to operate the autolight system.
6.	Front door switch RH	
7.	Door mirror RH	Refer to EXL-133, "Bulb Specifications".
8.	Front combination lamp RH	LED daytime, lamp control module is integrated into housing. Refer to EXL-133, "Bulb Specifications".
9.	Front fog lamp RH	Refer to EXL-133, "Bulb Specifications".
10.	Transmission range switch	• Supplies power to illuminate the back-up lamps. • Refer to TM-15, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
11.	Front fog lamp LH	Refer to EXL-133, "Bulb Specifications".
12.	Front combination lamp LH	LED daytime, lamp control module is integrated into housing. Refer to EXL-133, "Bulb Specifications".
13.	IPDM E/R	• Supplies voltage to the load according to the request from BCM (via CAN communication). • Refer to PCS-6, "Component Parts Location" for detailed installation location.
14.	BCM	• Detects each switch condition by the combination switch reading function. • Judges that the exterior lamps are turned ON according to the vehicle condition. • Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication). • Requests high beam indicator lamp ON to the combination meter (via CAN communication). • Judges the outside brightness from the optical sensor signal. • Judges the ON/OFF timing according to the vehicle condition. • Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition. • Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location".
15.	Door mirror LH	Refer to EXL-133, "Bulb Specifications".
16.	Front door switch LH	Transmits the door open signal to the BCM to operate the autolight system.
17.	Rear door switch LH	
18.	Rear combination lamp LH	Refer to EXL-133, "Bulb Specifications".
19.	Stop lamp assembly LH	Refer to EXL-133, "Bulb Specifications".
20.	License plate lamp LH	Refer to EXL-133, "Bulb Specifications".
21.	Hazard switch	Refer to EXL-11, "Hazard Switch".
22.	Optical sensor	Refer to EXL-11, "Optical Sensor".
23.	Combination meter	Refer to MWI-7, "METER SYSTEM : Combination Meter".
24.	Combination switch (lighting and turn signal switch)	Refer to BCS-9, "COMBINATION SWITCH READING SYSTEM : System Description".
25.	Stop lamp switch	• Transmits power to illuminate the stop lamps. • Refer to BR-57, "Exploded View" for detailed installation location.
26.	Parking brake switch	Transmits the parking brake switch signal to the combination meter to operate the daytime running light system.

Optical Sensor

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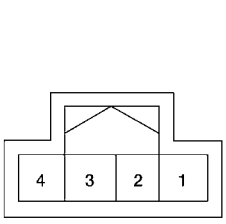
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.



Hazard Switch

INFOID:0000000014623067

Inputs the hazard switch ON/OFF signal to BCM.



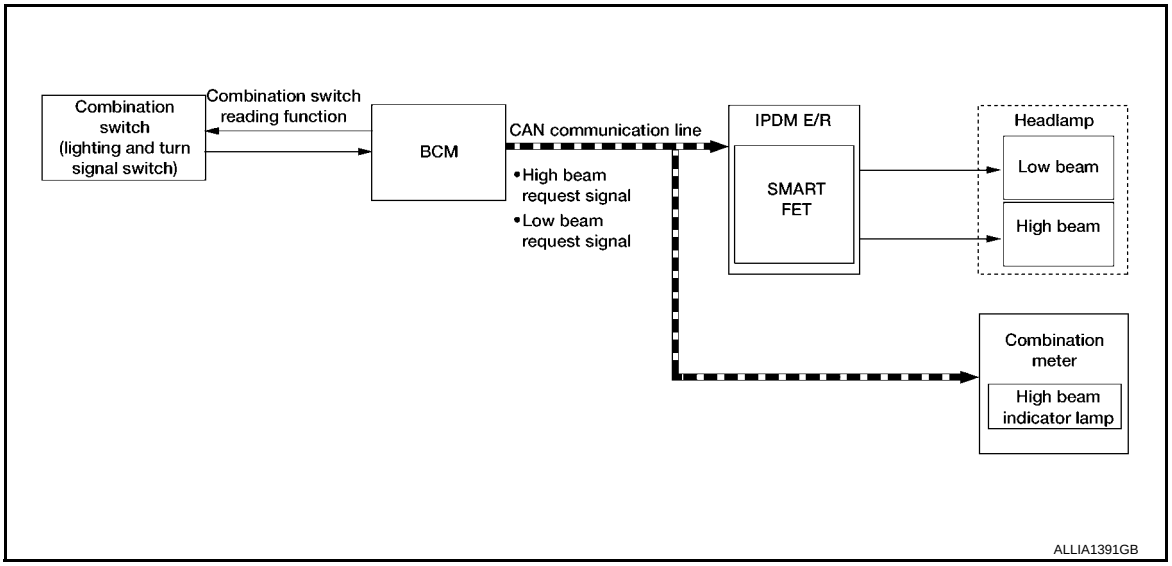
		OFF	ON
2	Hazard switch ON/OFF signal		●
3	Ground		●
4	Illumination +	●	
		●	
1	Illumination -	●	

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SYSTEM
HEADLAMP SYSTEM
HEADLAMP SYSTEM : System Description

INFOID:0000000014623068

SYSTEM DIAGRAM



OUTLINE

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

HEADLAMP (LO) OPERATION

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

Headlamp (LO) ON condition:
- Lighting switch 2ND
- Lighting switch AUTO (auto light function ON judgment)
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- Lighting switch PASS

HEADLAMP (HI) OPERATION

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

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

HEADLAMP SYSTEM : Fail-Safe

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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

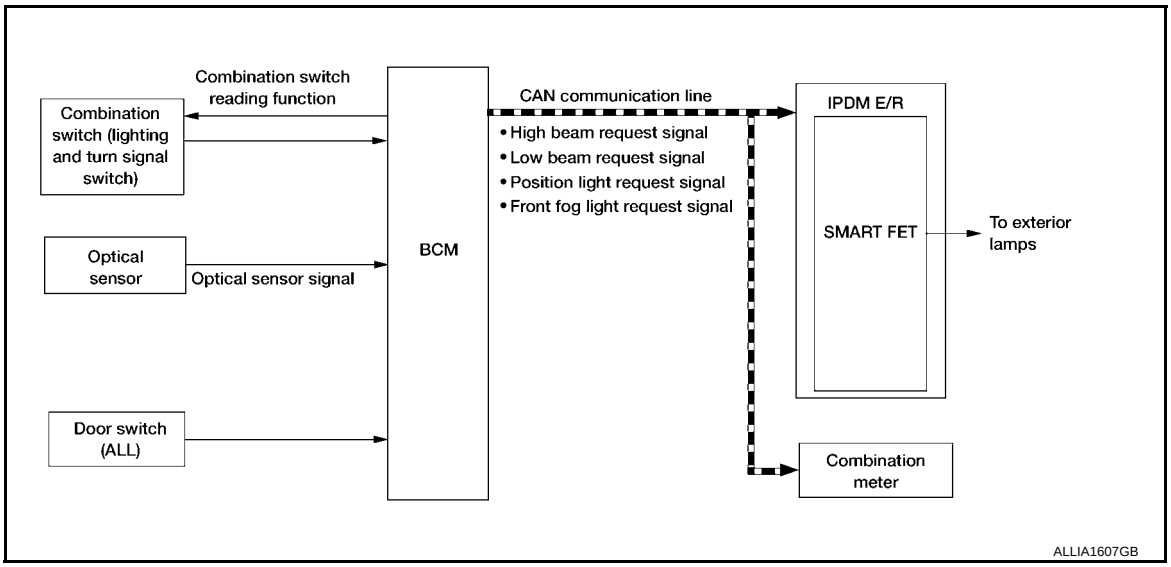
Control part	Fail-safe operation
Headlamp	• Turns ON the headlamp low beam when the ignition switch is turned ON • Turns OFF the headlamp low beam when the ignition switch is turned OFF

AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM : System Description

INFOID:0000000014623070

SYSTEM DIAGRAM



OUTLINE

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

Controlled by BCM:
- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function
- Auto light adjustment system

Controlled by IPDM E/R:
- Auto light system has the auto light function and delay timer function.
- Auto light function automatically turns ON/OFF the exterior lamps* and each illumination automatically, depending on the outside brightness.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns the exterior lamps OFF, depending on the vehicle condition with the auto light function after a certain period of time.

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

AUTO LIGHT FUNCTION

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

NOTE:
ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT. Refer to BCS-19, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

AUTO LIGHT ADJUSTMENT SYSTEM

The auto light adjustment system automatically dims/brightens the display according to brightness outside the vehicle when lighting switch 1ST, lighting switch 2ND or lighting switch AUTO is operated. Refer to EXL-13, "AUTO LIGHT SYSTEM : System Description".

DELAY TIMER FUNCTION

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

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

*: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to BCS-19, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

NOTE:

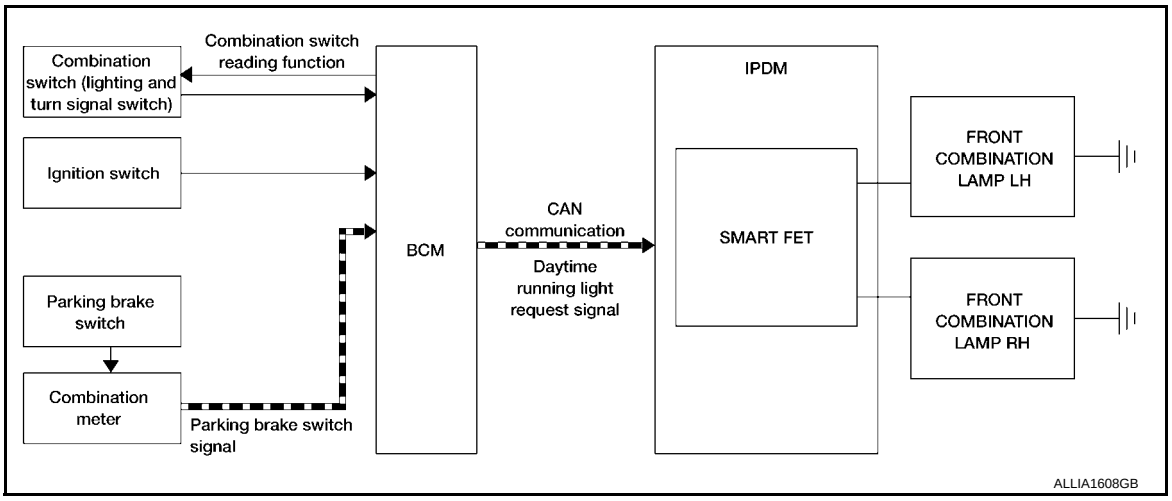
When any position other than the light switch AUTO is set, the auto light system function switches to the exterior lamp battery saver function.

DAYTIME RUNNING LIGHT SYSTEM

DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:0000000014623071

SYSTEM DIAGRAM



OUTLINE

- Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and smart FET of IPDM E/R.

DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the vehicle condition 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

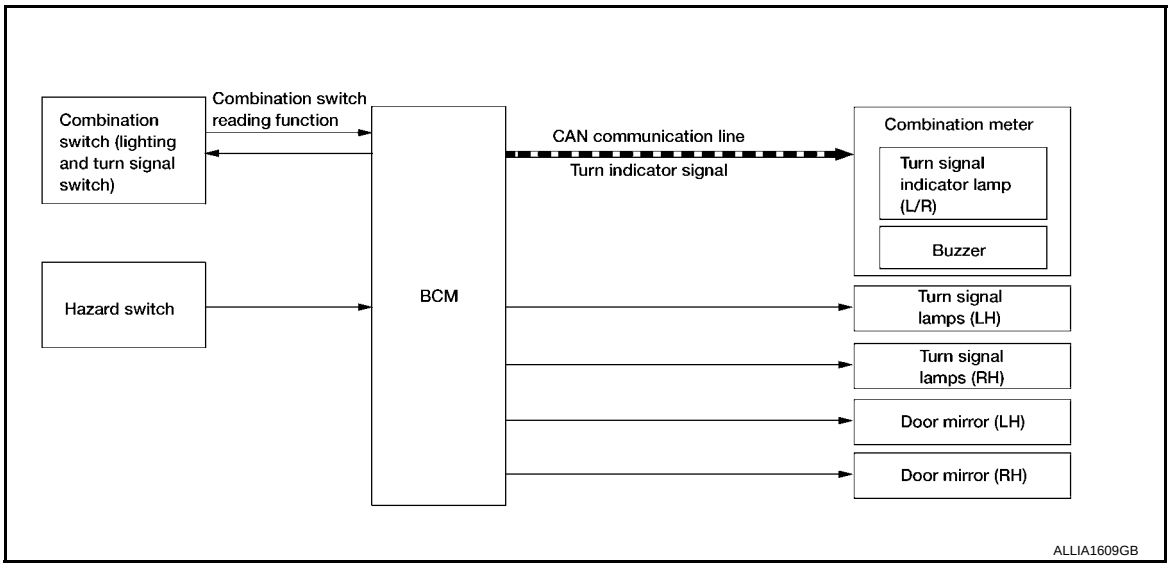
- IPDM E/R controls the daytime running light request signal.
- Power is supplied from the IPDM E/R to the daytime lights.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

INFOID:0000000014623072

SYSTEM DIAGRAM



OUTLINE

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

TURN SIGNAL LAMP OPERATION

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

HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is 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.

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.

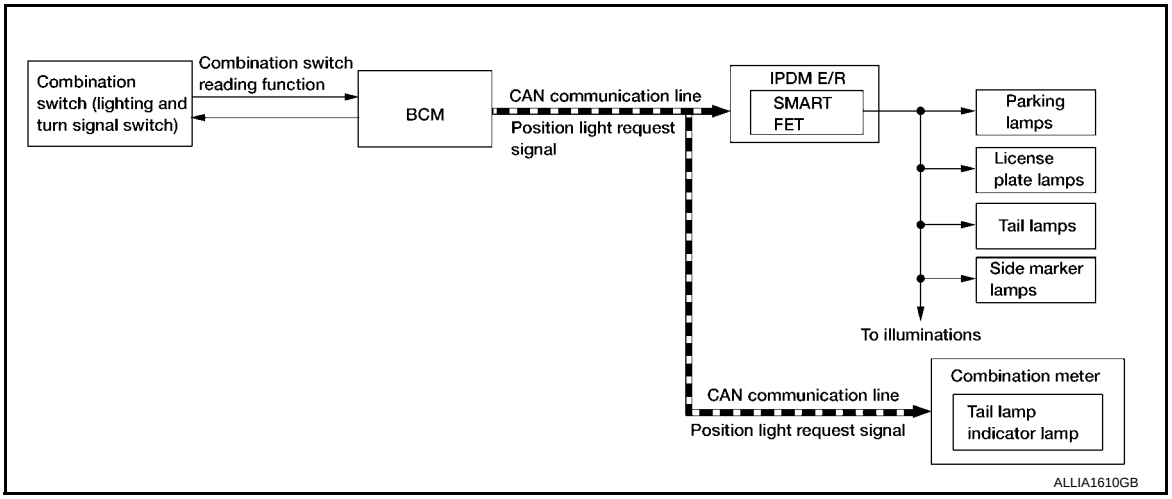
PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM : System De-

scription

INFOID:0000000014623073

SYSTEM DIAGRAM



OUTLINE

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

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R 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 lamps 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 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:0000000014623074

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

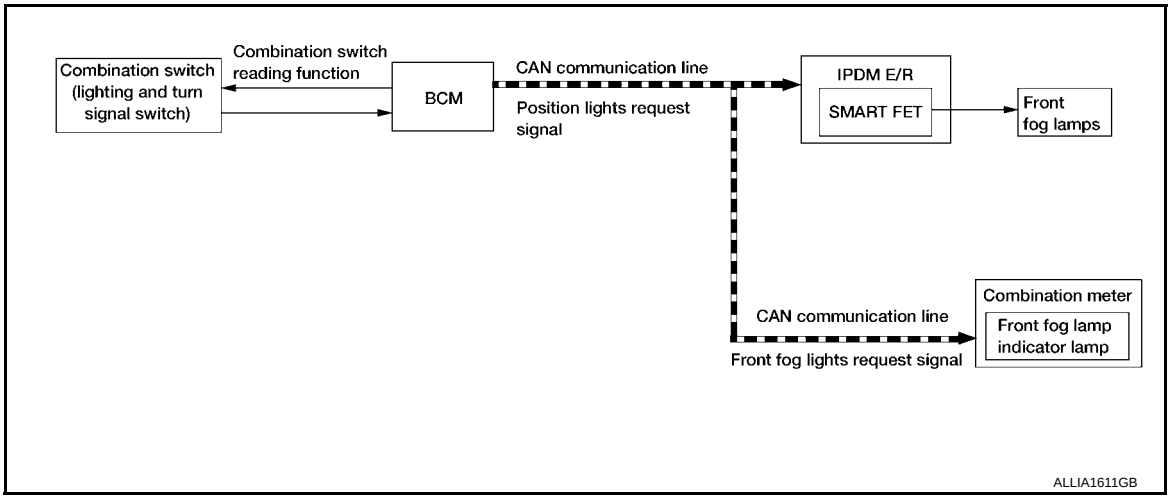
Control part	Fail-safe operation
• Parking lamp • License plate lamp • Illumination • Tail lamp • Side marker lamp	• Turns ON the tail lamp when the ignition switch is turned ON • Turns OFF the tail lamp when the ignition switch is turned OFF

FRONT FOG LAMP SYSTEM

FRONT FOG LAMP SYSTEM : System Description

INFOID:0000000014623075

SYSTEM DIAGRAM



OUTLINE

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

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog lights request signal to IPDM E/R 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 front fog lamp 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:0000000014623076

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

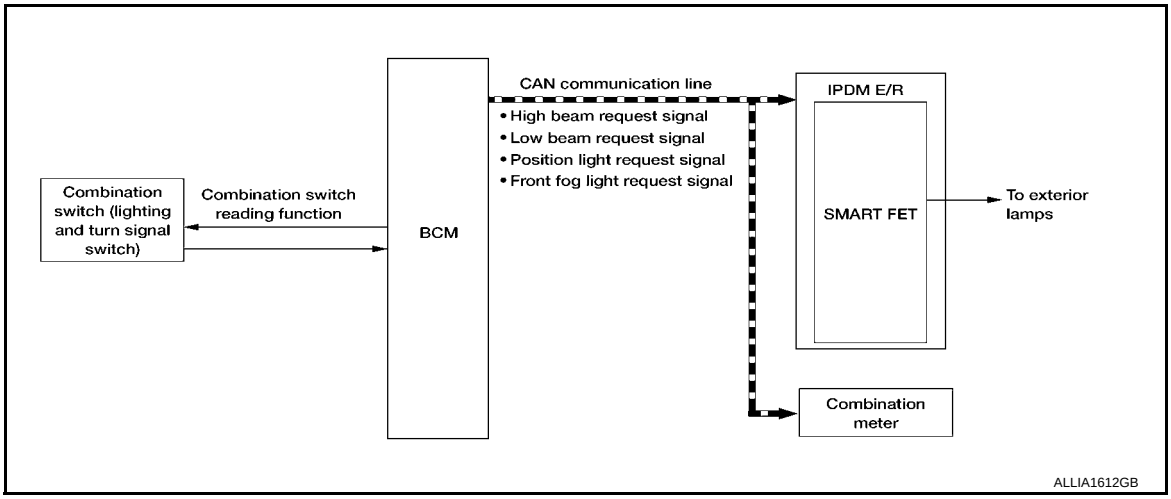
Control part	Fail-safe operation
Front fog lamp	Front fog lamp OFF

EXTERIOR LAMP BATTERY SAVER SYSTEM

EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000014623077

SYSTEM DIAGRAM



OUTLINE

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

Controlled by BCM:
- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

Controlled by IPDM E/R:
- BCM turns the exterior lamps* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamps ON.

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

EXTERIOR LAMP BATTERY SAVER ACTIVATION

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

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

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000015190659

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. • 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			×	×			
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP)

INFOID:0000000015190660

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 [On/Off]	
LIGHT OFF SW [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.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
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].
STOP LAMP 1	This test is able to check rear combination lamp stop lamp operation [On/Off].
STOP LAMP 3	This test is able to check high-mounted stop lamp operation [On/Off].
DAYTIME RUNNING LIGHT	This test is able to check daytime running light operation [On/Off].
ILL DIM SIGNAL	This test is able to check illumination dimmer signal [On/Off].

WORK SUPPORT

Support Item	Setting	Description
TWILIGHT ON	MODE2*	Autolamp function ON.
	MODE1	Autolamp 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	Autolamp delay timer.
	MODE 7	
	MODE 6	
	MODE 4	
	MODE 5	
	MODE 3	
	MODE 2	
	MODE 1*	
WIPER LINK	MODE1	Without wiper linked auto light function
	MODE2	With wiper LO and HI
	MODE3*	With wiper INT, LO and HI
	MODE4	**NOTE:** This item cannot be used

*: Initial setting

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000015190661

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.

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:0000000015190662

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]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WIPER INT [On/Off]	
RR WASHER SW [On/Off]	
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 Hi beam switch operation of combination switch.
HEAD LAMP SW [On/Off]	Indicates condition of head lamp switch operation of combination switch.
LIGHT OFF SW [On/Off]	Indicates condition of no light switch 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:0000000015190663

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 push-button ignition switch.
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.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
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)

CONSULT Function (IPDM E/R)

INFOID:0000000015190664

APPLICATION ITEM

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

Direct Diagnostic Mode	Description
ECU Identification	The IPDM E/R part number is displayed.
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.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing IPDM E/R.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-28, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
REVERSE SIGNAL [Open/Close]	Indicates condition of transmission range switch R (Reverse) position.
IGN RELAY [Open/Close]	Indicates condition of ignition relay-1.
PUSH SW [Open/Close]	Indicates condition of push-button ignition switch.
INTERLOCK/PNP SW [Open/Close]	Indicates condition of transmission range switch P (Park) and N (Neutral) positions.
OIL PRESSURE SW [Open/Close]	Indicates condition of oil pressure switch.
LED H/L RH STATUS [Open/Close]	Indicates condition of LED headlamp RH ON/OFF status judged by IPDM E/R.
LED H/L LH STATUS [Open/Close]	Indicates condition of LED headlamp LH ON/OFF status judged by IPDM E/R.
HOOD SW [Open/Close]	Indicates condition of hood switch.
HORN RELAY [OFF/ ON]	Indicates condition of horn relay.
FRONT WIPER HI/LO RELAY [OFF/ON]	Indicates condition of front wiper high relay.
FRONT WIPER RELAY [OFF/ON]	Indicates condition of front wiper relay.
IGN RELAY OFF STATUS [OFF/ON]	Indicates condition of ignition relay-1 OFF status.
IGN RELAY ON STATUS [OFF/ON]	Indicates condition of ignition relay-1 ON status.
STARTER RELAY [OFF/ON]	Indicates condition of starter relay.
FR FOG LAMP LH [%]	Indicates condition of front fog lamp LH.
FR FOG LAMP RH [%]	Indicates condition of front fog lamp RH.
PARKING LAMP [%]	Indicates condition of parking lamp.
TAIL LAMP LH [%]	Indicates condition of tail lamp LH.
TAIL LAMP RH [%]	Indicates condition of tail lamp RH.
DAYTIME RUNNING LIGHT LH [%]	Indicates condition of daytime running light LH.
DAYTIME RUNNING LIGHT RH [%]	Indicates condition of daytime running light RH.
HEADLAMP (HI) LH [%]	Indicates condition of headlamp high beam LH.

Monitor Item [Unit]	Description
HEADLAMP (HI) RH [%]	Indicates condition of headlamp high beam RH.
HEADLAMP (LO) LH [%]	Indicates condition of headlamp low beam LH.
HEADLAMP (LO) RH [%]	Indicates condition of headlamp low beam RH.
FRONT FOG LAMP [Off/On]	Indicates condition of front fog lamps.
BATTERY VOLTAGE [V]	Indicates condition of battery voltage.
COOLING FAN DUTY [%]	Indicates condition of cooling fans.
HOOD SW (CAN) [OPEN/CLOSE]	Indicates condition of hood switch.
FRONT WIPER [STOP/LOW/HIGH]	Indicates condition of front wiper motor.
FR WIPER STOP POSITION [STOP P/ACTIVE P]	Indicates condition of front wiper motor stop.
HEADLAMP (HI) [Off/On]	Indicates condition of headlamp high beams.
HEADLAMP (LO) [Off/On]	Indicates condition of headlamp low beams.
IGNITION RELAY STATUS [Off/On]	Indicates condition of ignition relay-1.
IGN RELAY MONITOR [Off/On]	Indicates condition of ignition relay-1 feedback.
IGNITION POWER SUPPLY [Off/On]	Indicates condition of ignition relay-1.
INTERLOCK/PNP SW (CAN) [Off/On]	Indicates condition of transmission range switch P (Park) and N (Neutral) positions.
PUSH-BUTTON IGN SW (CAN) [Off/On]	Indicates condition of push-button ignition switch.
TAIL LAMP [Off/On]	Indicates condition of tail lamps.
REVERSE SIGNAL (CAN) [Off/On]	Indicates condition of transmission range switch R (Reverse) position.
ST&ST CONT RELAY STATUS [Off/ST R On]	Indicates condition of starter cut and starter relays.
STARTER MOTOR STATUS [Off/On]	Indicates condition of starter motor.
STARTER RELAY (CAN) [LOW/HIGH]	Indicates condition of starter relay.
IPDM NOT SLEEP [NO RDY/RDY]	Indicates condition of IPDM E/R sleep status.
DTRL REQ [Off/On]	Indicates condition of daytime running light request.
CRANKING ENABLE-TCM [NG/OK]	Indicates condition of crank enable from TCM.
CRANKING ENABLE-ECM [NG/OK]	Indicates condition of crank enable from ECM.
CAN DIAGNOSIS [NG/OK]	Indicates condition of CAN diagnosis.
FRONT FOG LAMP REQ [Off/On]	Indicates condition of front fog lamp request.
HIGH BEAM REQ [Off/On]	Indicates condition of headlamp high beam request.
HORN CHIRP [Off/On]	Indicates condition of horn relay request.
COOLING FAN REQ [%]	Indicates condition of cooling fan request.
ENGINE STATUS [STOP/RUN/IDLING]	Indicates condition of engine status.
TURN SIGNAL REQ [Off/LH/RH]	Indicates condition of turn signal request.
FR WIPER REQ [RETURN/LOW/HIGH]	Indicates condition of front wiper motor request.
SHIFT POSITION [P/R/N/D/L]	Indicates condition of transmission range switch positions.
LOW BEAM REQ [Off/On]	Indicates condition of headlamp low beam request.
POSITION LIGHT REQ [Off/On]	Indicates condition of parking lamp request.
IGNITION SW [Off/On]	Indicates condition of ignition switch.
VEHICLE SPEED (METER) [mph/km/h]	Indicates vehicle speed.
STARTER OPERATION COUNT [Numerical]	Displays number of times starter motor is energized.
H/P F/PUMP OPERATN COUNT [Numerical]	Displays number of times high pressure fuel pump is energized.
P LAMP CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for the parking lamp circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB P LAMP CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of parking lamp circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB P LAMP CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of parking lamp circuit.
DTRL LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for daytime running light (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB DTRL LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of daytime running light (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB DTRL LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of daytime running light (left) circuit.
DTRL RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for daytime running light (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB DTRL RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of daytime running light (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB DTRL RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of daytime running light (right) circuit.
F FOG LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for front fog lamp (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB F FOG LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of front fog lamp (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB F FOG LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of front fog lamp (left) circuit.
F FOG RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for front fog lamp (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB F FOG RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of front fog lamp (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB F FOG RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of front fog lamp (right) circuit.
HL (HI) LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (HI) (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB HL (HI) LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (HI) (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (HI) LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (HI) (left) circuit.
HL (HI) RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (HI) (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (HI) RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (HI) (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (HI) RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (HI) (right) circuit.
HL (LO) LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (LO) (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (LO) LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (LO) (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (LO) LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (LO) (left) circuit.
HL (LO) RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (LO) (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (LO) RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (LO) (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (LO) RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (LO) (right) circuit.
T LAMP LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for tail lamp (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB T LAMP LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of tail lamp (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB T LAMP LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of tail lamp (left) circuit.
T LAMP RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for tail lamp (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB T LAMP RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of tail lamp (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB T LAMP RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of tail lamp (right) circuit.

ACTIVE TEST

Test item	Description
HORN	This test is able to check horn operation [Off/On].
FRONT WIPER	This test is able to check wiper motor operation [Off/Low/High].
COMPRESSOR	This test is able to check A/C compressor operation [Off/On].
COOLING FAN (DUAL)	This test is able to check cooling fan operation [Off/LO/HI].
HEADLAMP (HI)	This test is able to check headlamp high beam operation [Off/On].
HEADLAMP (LO)	This test is able to check headlamp low beam operation [Off/On].
FRONT FOG LAMP	This test is able to check front fog lamp operation [Off/On].
DAYTIME RUNNING LAMP	This test is able to check daytime running lamp operation [Off/On].
PARKING LAMP	This test is able to check parking lamp operation [Off/On].
TAIL LAMP	This test is able to check tail lamp operation [Off/On].

CONFIGURATION

Refer to PCS-36, "Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-23, "CAN Diagnostic Support Monitor".

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000014623085

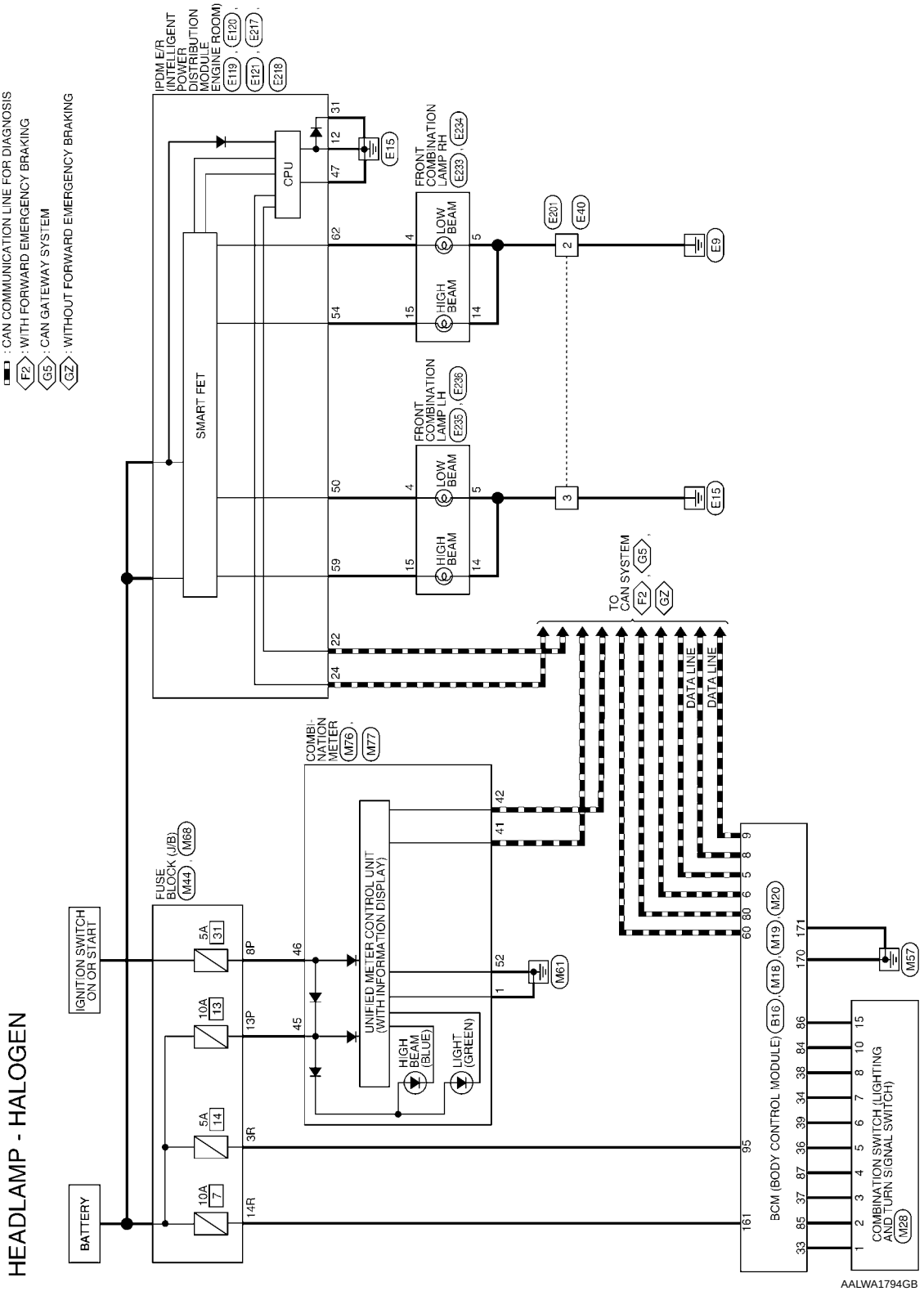
ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-46, "Fail-safe"
	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"
IPDM E/R	PCS-17, "Reference Value".
	PCS-26, "Fail-safe"
	PCS-28, "DTC Index"

WIRING DIAGRAM

HEADLAMP

Wiring Diagram

INFOID:0000000014623086



HEADLAMP CONNECTORS - HALOGEN

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.

58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
78	79	80																	

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

Connector No.	E40
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC
Connector Color	WHITE

H.S.

1	2
3	4

Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	GR	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

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	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	IGN AIRBAG
12	B	SIGNAL GROUND

13	–	–
14	–	–
15	–	–
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	–	–

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

30	29	28	27	26	25	24	23	22	21	20	19
42	41	40	39	38	37	36	35	34	33	32	31

Terminal No.	Color of Wire	Signal Name
19	LG	IGN ECM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	243405408R
Connector Color	RED

H.S.

45	44	43
48	47	46

Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	BAT ABS VALVE
45	V	FR WIPER HI
46	W	FUEL PUMP
47	B	POWER GROUND
48	Y	FR WIPER LO

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

2	1
4	3

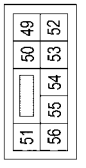
Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

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HEADLAMP CONNECTORS - HALOGEN

Connector No.	E217
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	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E233
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
4	SB	O LIGHT LBEAM RH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	W	O LIGHT CLEARANCE FR RH

Connector No.	E234
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL RH
11	GR	GROUND
12	GR	O LIGHT CLEARANCE FR RH
13	–	–
14	B	GROUND
15	LG	O LIGHT HBEAM RH

Connector No.	E235
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
4	L	O LIGHT LBEAM LH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	P	O LIGHT CLEARANCE FR LH

Connector No.	E236
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL LH
11	GR	GROUND
12	BG	O LIGHT CLEARANCE FR LH
13	–	–
14	B	GROUND
15	G	O LIGHT HBEAM LH

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HEADLAMP CONNECTORS - HALOGEN

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

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	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4

38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

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

H.S.

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–

114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

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HEADLAMP CONNECTORS - HALOGEN

Connector No.	M44
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	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
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	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

Connector No.	M76
Connector Name	COMBINATION METER
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
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT
39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

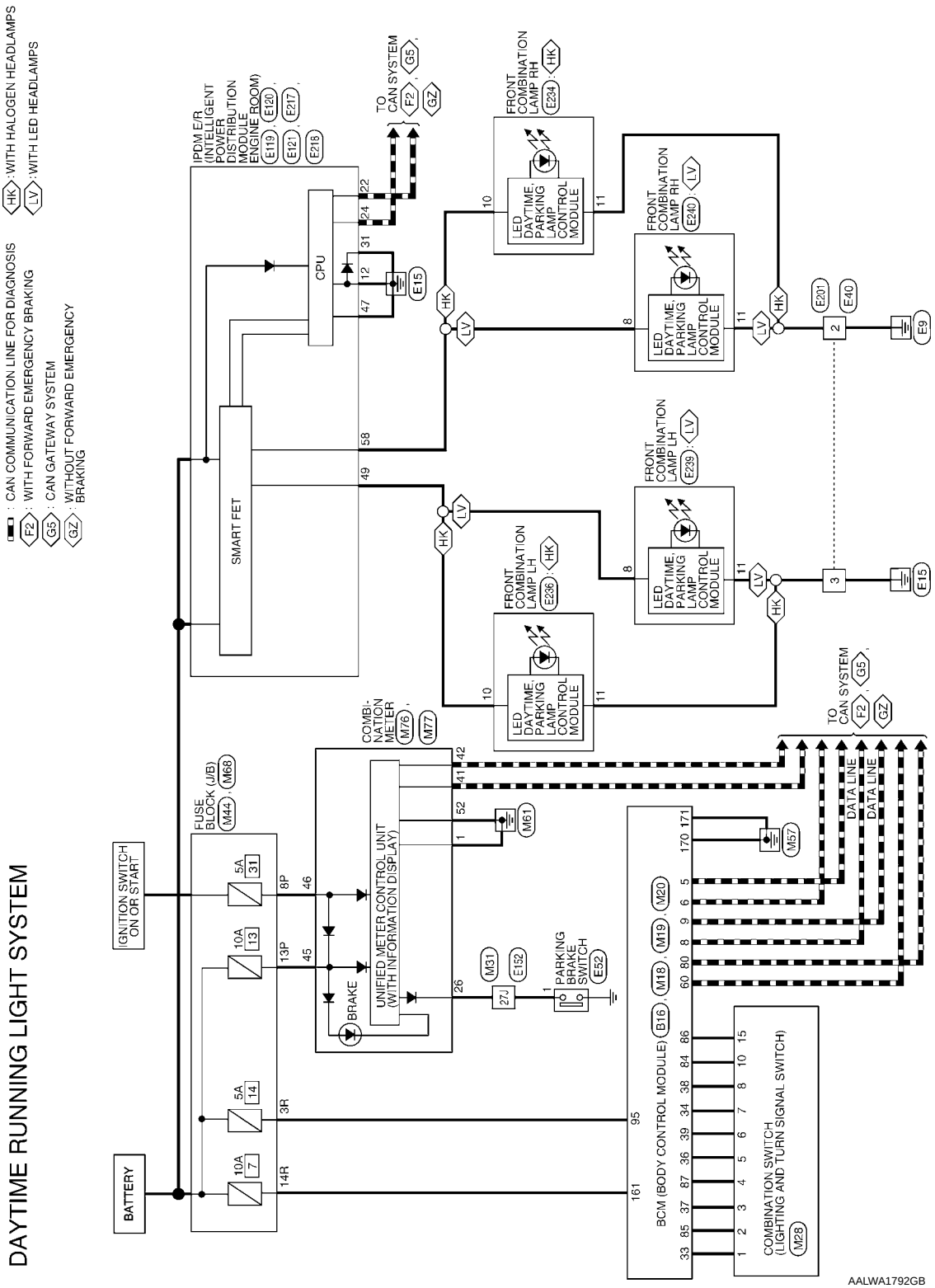
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

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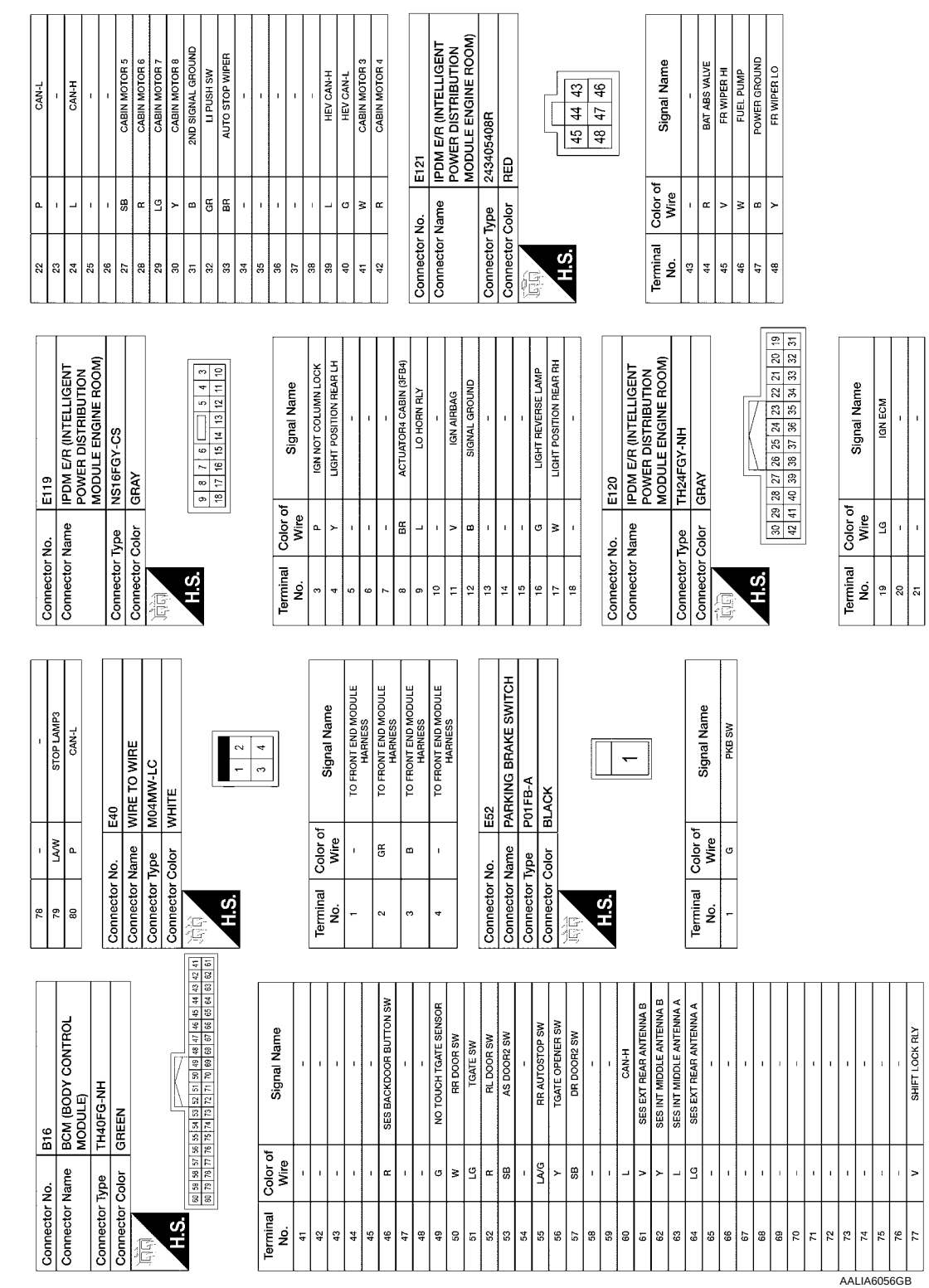
DAYTIME RUNNING LIGHT SYSTEM

Wiring Diagram

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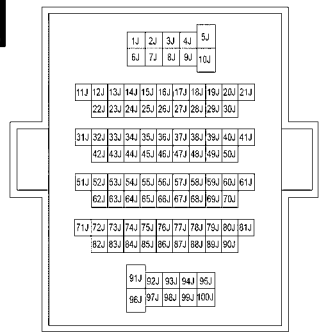
DAYTIME RUNNING LIGHT SYSTEM CONNECTORS



DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.



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

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

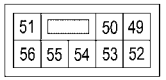
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

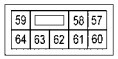
H.S.



Terminal No.	Color of Wire	Signal Name
49	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

AALIA6057GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	E234
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

10	11	12
13	14	15

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL RH
11	GR	GROUND
12	GR	O LIGHT CLEARANCE FR RH
13	–	–
14	B	GROUND
15	LG	O LIGHT HBEAM RH

Connector No.	E236
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

10	11	12
13	14	15

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL LH
11	GR	GROUND
12	BG	O LIGHT CLEARANCE FR LH
13	–	–
14	B	GROUND
15	G	O LIGHT HBEAM LH

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

4	5	6	7
8	9	10	11

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	G	O LIGHT HBEAM LH
6	L	O LIGHT LBEAM LH
7	GR	LI LED DETECTION 2
8	R	O LIGHT DTRL LH
9	BG	O LIGHT CLEARANCE FR LH
10	P	O LIGHT CLEARANCE FR LH
11	B	GROUND

Connector No.	E240
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

4	5	6	7
8	9	10	11

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	LG	O LIGHT HBEAM RH
6	SB	O LIGHT LBEAM RH
7	Y	LI LED DETECTION 1
8	R	O LIGHT DTRL RH
9	GR	O LIGHT CLEARANCE FR RH
10	W	O LIGHT CLEARANCE FR RH
11	B	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

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	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4

38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6058GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

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

H.S.

120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101
100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A

118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1

AALIA6059GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.

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

Connector No.	M44
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	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
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	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6060GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
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
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

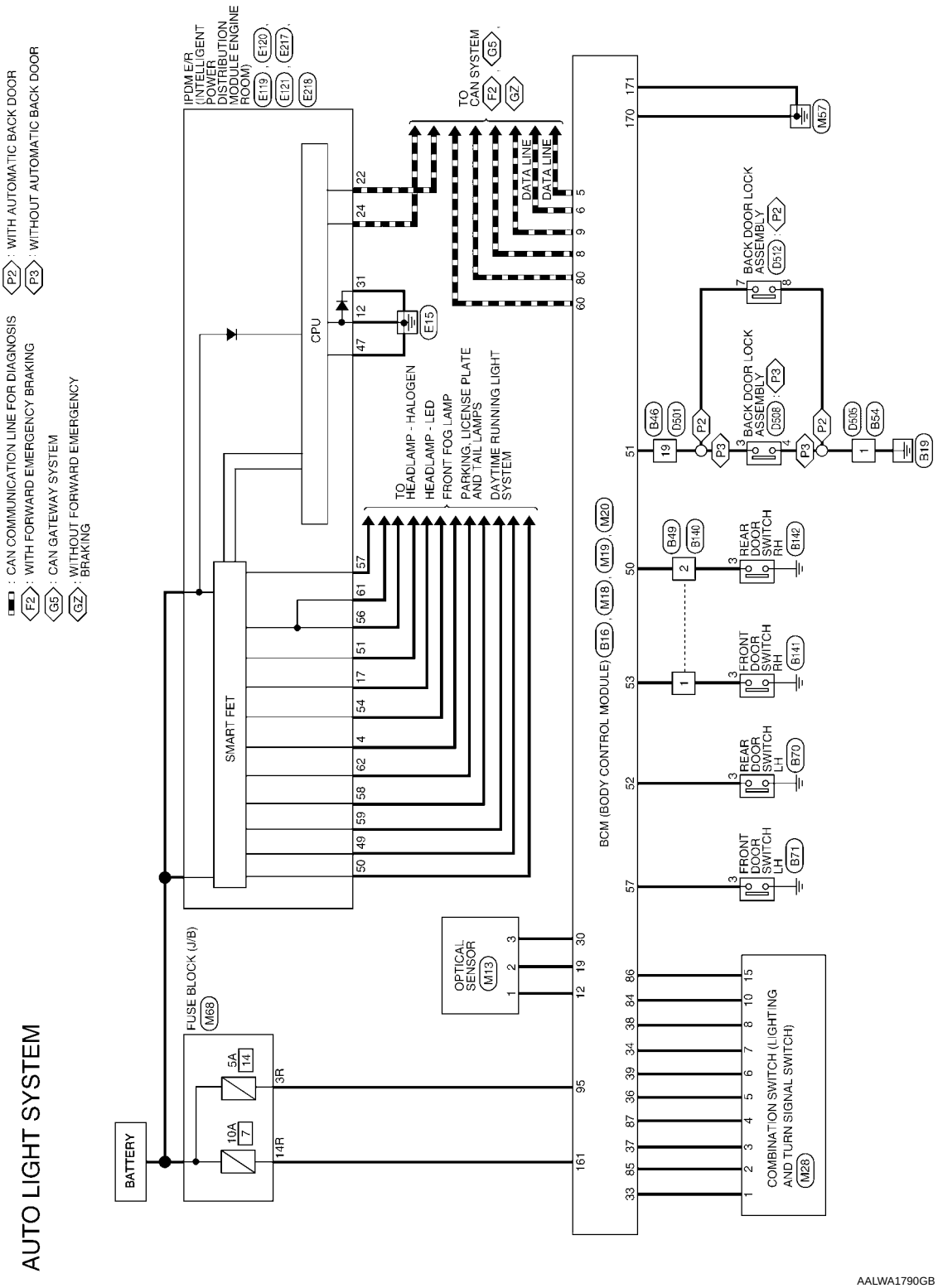
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

AALIA6061GB

AUTO LIGHT SYSTEM

Wiring Diagram

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AALWA1790GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.

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

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	I SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	I NO TOUCH TGATE SENSOR
50	W	I RR DOOR SW
51	LG	I TGATE SW
52	R	I RL DOOR SW
53	SB	I AS DOOR2 SW
54	–	–
55	LA/G	I RR AUTOSTOP SW
56	Y	I TGATE OPENER SW
57	SB	I DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	O STOP LAMP3
80	P	CAN-L

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	16	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
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	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

Connector No.	B70
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	R	I RL DOOR SW
4	–	–

Connector No.	B71
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

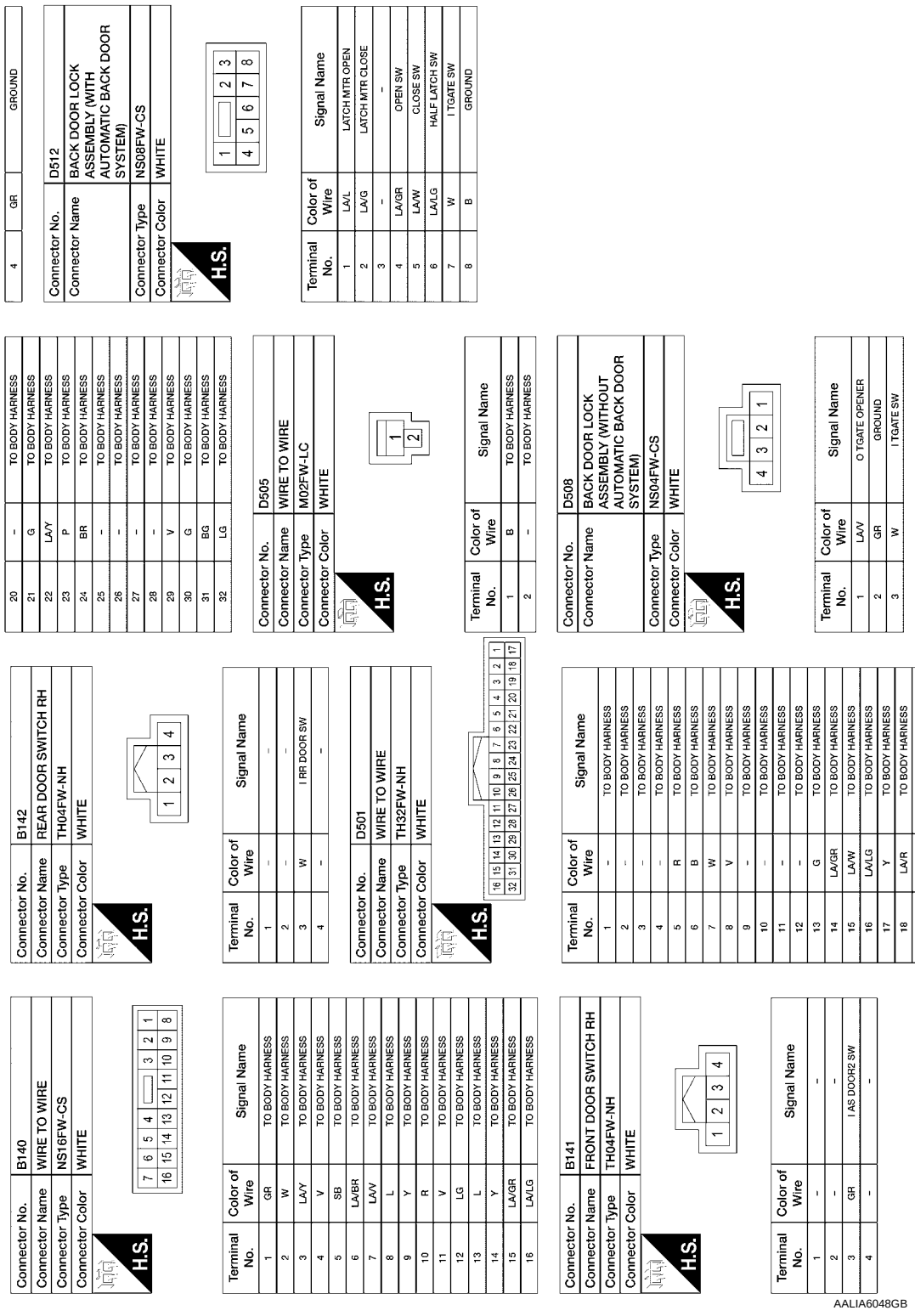
H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	I DR DOOR2 SW
4	–	–

AALIA6047GB

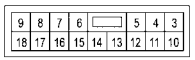
AUTO LIGHT SYSTEM CONNECTORS



AUTO LIGHT SYSTEM CONNECTORS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

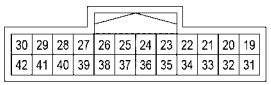
H.S.



Terminal No.	Color of Wire	Signal Name
3	P	O IGN NOT COLUMN LOCK
4	Y	O LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	O ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	O IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	O LIGHT REVERSE LAMP
17	W	O LIGHT POSITION REAR RH
18	–	–

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

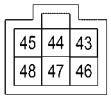
H.S.



Terminal No.	Color of Wire	Signal Name
19	LG	O IGN ECM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	I AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	243405408R
Connector Color	RED

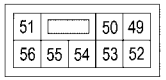
H.S.



Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	O BAT ABS VALVE
45	V	O FR WIPER HI
46	W	O FUEL PUMP
47	B	POWER GROUND
48	Y	O FR WIPER LO

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

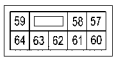
H.S.



Terminal No.	Color of Wire	Signal Name
49	R	O LIGHT DTRL LH
50	L	O LIGHT LBEAM LH
51	V	O LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	O LIGHT HBEAM RH
55	–	–
56	BG	O LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

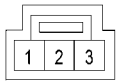
H.S.



Terminal No.	Color of Wire	Signal Name
57	W	O LIGHT FR FOG LAMPS RH
58	R	O LIGHT DTRL RH
59	G	O LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	O LIGHT PARKING FR RH
62	SB	O LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	M13
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	O PWR AUTOLIGHT SENSOR
2	LG	I AUTOLIGHT SENSOR
3	V	O GND AUTOLIGHT SENSOR

AALIA6049GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

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	L	LIN 3 D
2	LA/G	O DI FR LEFT D
3	LA/Y	O DI FR RIGHT D
4	P	O SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	I DOORLOCK SW
11	Y	I HAZARD SW D
12	W	O PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	O PWR ATDVC
18	–	–
19	LG	I AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	O WL AUTHORIZATION RL
24	LA/R	O DEFROSTER RL D
25	BR	O BAT TEMP1 RL
26	–	–
27	Y	O IGN1 RL
28	LA/W	O IGN2 RL
29	–	–
30	V	O GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	O CSW 5
34	Y	I CSW 5
35	BG	O SECURITY LED
36	G	O CSW 3
37	GR	O CSW 4

38	V	O CSW 1
39	W	O CSW 2
40	SB	I DOORUNLOCK SW

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

H.S.

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	I SES FR HANDLE BUTTON SW
83	–	–
84	BR	I CSW 2
85	SB	I CSW 1
86	P	I CSW 3
87	BG	I CSW 4
88	W	O START SW BACKLIGHT LED
89	Y	I START WO ESCL SW
90	–	–
91	–	–
92	BR	I KEY CYLINDER LOCK SW
93	P	I KEY CYLINDER UNLOCK SW
94	G	I AT LOCKED IN PARK SW
95	V	I SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	I DR KNOB SW
105	Y	I SES DR HANDLE BUTTON SW
106	W	O AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	O MR OUTPUT
111	–	–
112	–	–
113	–	–

114	Y	O IMMOBILIZER KAZASHI B
115	W	O IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	I PWR ECU
162	SB	O PWM ROOMLAMP 1
163	L	O AS LOCK OR UNLOCK D
164	–	–
165	V	O DR OR FR LOCK D
166	–	–
167	LA/V	I PWR DOORLOCK1
168	BG	I PWR FLASHERS
169	GR	I PWR STOP LAMP
170	B	I GND1
171	B	I GND2
172	G	O FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	I PWR DOORLOCK2
176	LG	I PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	O CSW 5
2	SB	I CSW 1
3	GR	O CSW 4
4	BG	I CSW 4
5	G	O CSW 3
6	W	O CSW 2
7	Y	I CSW 5
8	V	O CSW 1
9	G	RR WASH MOTOR
10	BR	I CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

AALIA6050GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	M68
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

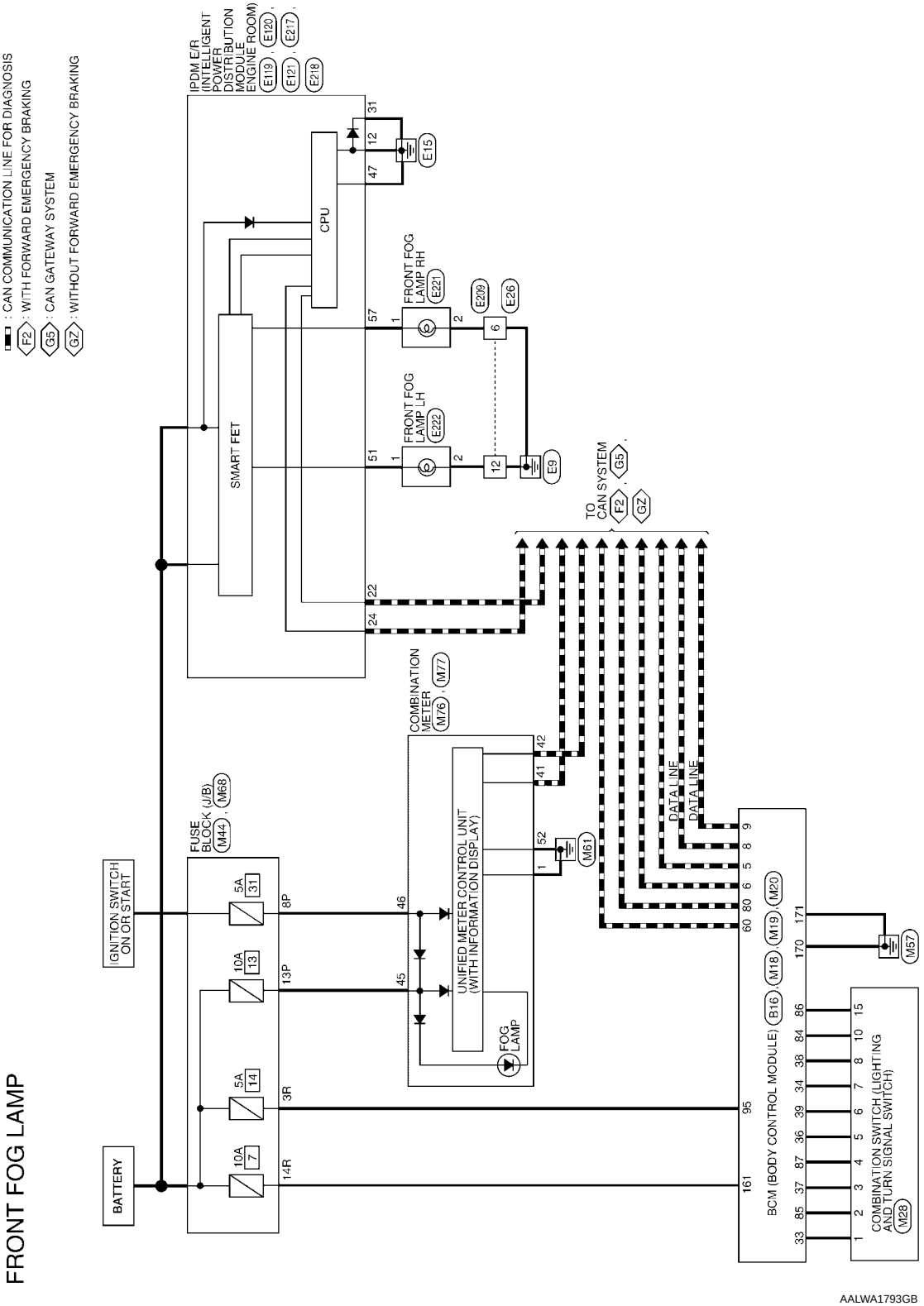
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-
9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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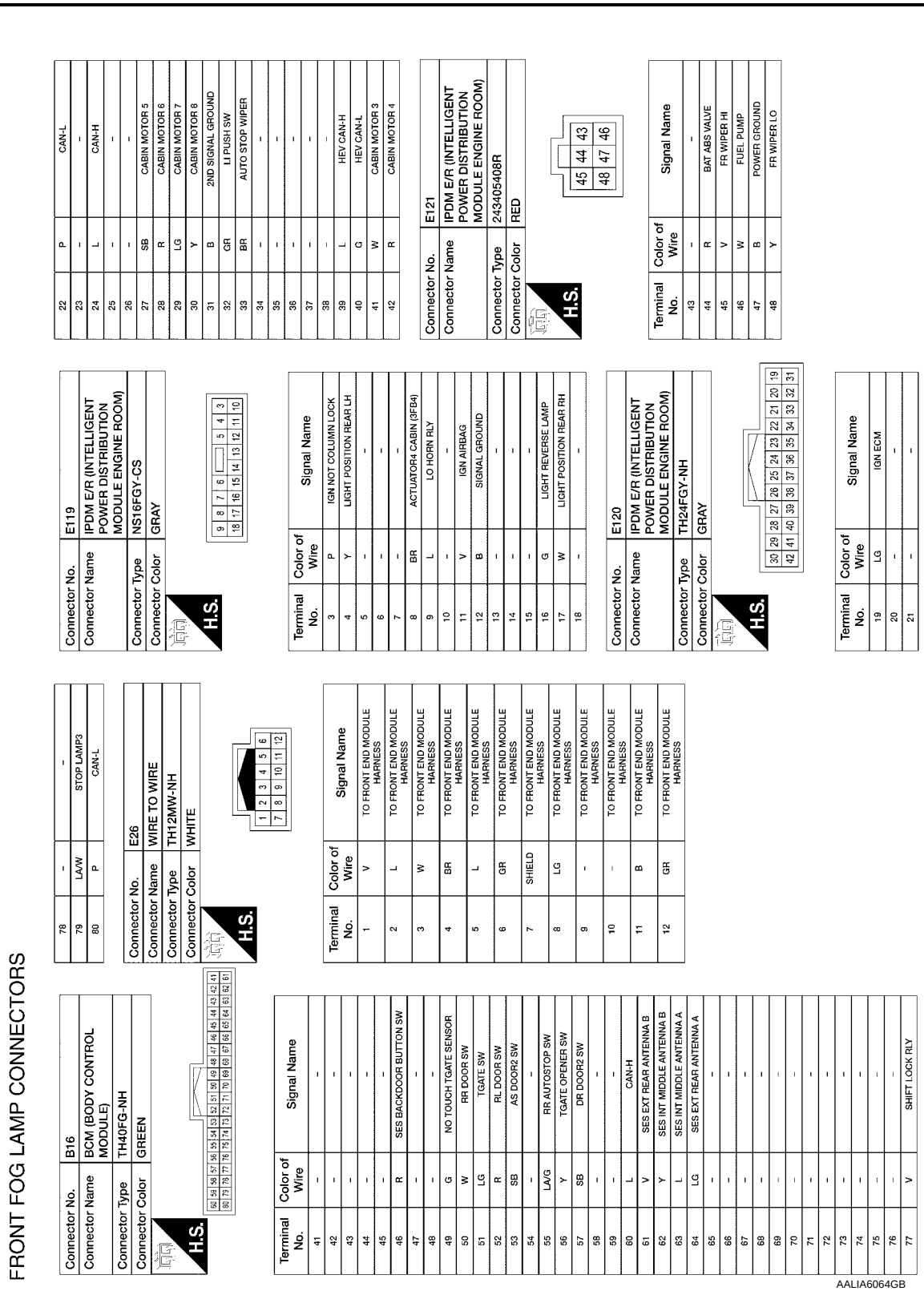
FRONT FOG LAMP SYSTEM

Wiring Diagram

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FRONT FOG LAMP CONNECTORS

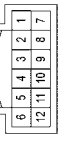


AALIA6064GB

FRONT FOG LAMP CONNECTORS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

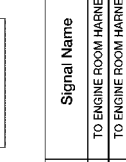
H.S.



Terminal No.	Color of Wire	Signal Name
1	V	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	W	TO ENGINE ROOM HARNESS
4	BG	TO ENGINE ROOM HARNESS
5	L	TO ENGINE ROOM HARNESS
6	GR	TO ENGINE ROOM HARNESS
7	SHIELD	TO ENGINE ROOM HARNESS
8	LG	TO ENGINE ROOM HARNESS
9	–	TO ENGINE ROOM HARNESS
10	–	TO ENGINE ROOM HARNESS
11	B	TO ENGINE ROOM HARNESS
12	GR	TO ENGINE ROOM HARNESS

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

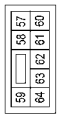
H.S.



Terminal No.	Color of Wire	Signal Name
49	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

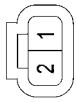
H.S.



Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E221
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB
Connector Color	BLACK

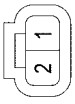
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	O LIGHT FR FOG LAMPS RH
2	GR	GROUND

Connector No.	E222
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB
Connector Color	BLACK

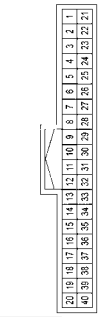
H.S.



Terminal No.	Color of Wire	Signal Name
1	V	O LIGHT HBEAM LH
2	GR	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6065GB

FRONT FOG LAMP CONNECTORS

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

H.S.

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M44
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	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
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

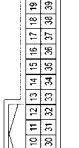
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6066GB

FRONT FOG LAMP CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

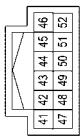


Terminal No.	Color of Wire	Signal Name
1	B	GND
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.



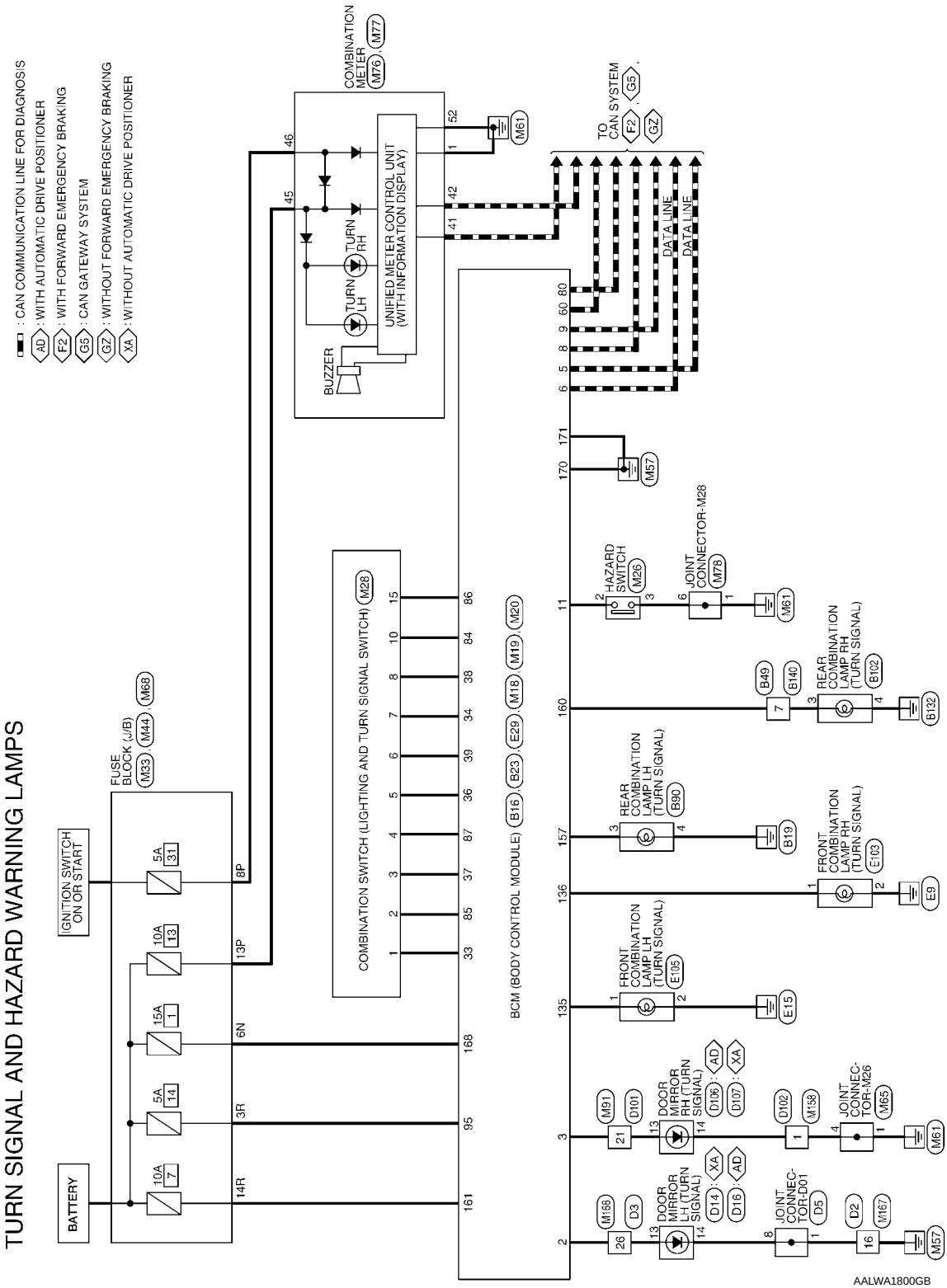
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

AALIA6067GB

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram

INFOID:0000000014623090



TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

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	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.

151	150	149	148		147	146	145
160	159	158	157	156	155	154	153	152

Terminal No.	Color of Wire	Signal Name
145	LA/V	TGATE OPENER
146	–	–
147	LA/R	RR WIPER
148	W	RR UNLOCK B
149	L	RR LOCK B
150	–	–
151	R	PWM ROOMLAMP 5
152	–	–
153	LA/W	STOP LAMP1
154	–	–
155	–	–
156	–	–
157	GR	DI RR LEFT B
158	LA/Y	STOP LAMP2 NISSAN EUR
159	–	–
160	P	DI RR RIGHT B

Connector No.	B49
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	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS

3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B90
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/Y	O STOP LAMP2 NISSAN EUR
3	GR	O DI RR LEFT B
4	B	GROUND

Connector No.	B102
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/Y	O STOP LAMP 1

3	LA/V	O DI RR RIGHT B
4	B	GROUND

Connector No.	B140
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	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

AALIA6094GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

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	V	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	P	TO MAIN HARNESS
6	L/A	TO MAIN HARNESS
7	LA/BR	TO MAIN HARNESS
8	SB	TO MAIN HARNESS
9	GR	TO MAIN HARNESS
10	L	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	V	TO MAIN HARNESS
15	R	TO MAIN HARNESS
16	B	TO MAIN HARNESS

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	GR	TO MAIN HARNESS
3	W	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	LA/SB	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
4	V	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
4	LA/BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
5	SB	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
5	LA/Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
6	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	LA/V	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
7	W	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	SB	TO MAIN HARNESS
10	LG	TO MAIN HARNESS
11	GR	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	BG	TO MAIN HARNESS
16	L	TO MAIN HARNESS
17	LA/W	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LA/SB	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	LA/W	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	LA/Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	LA/BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	LA/LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
20	LA/GR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	LA/V	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	BR	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	LA/R	TO MAIN HARNESS
24	GR	TO MAIN HARNESS
25	R	TO MAIN HARNESS
26	LA/G	TO MAIN HARNESS
27	LA/LG	TO MAIN HARNESS
28	LA/L	TO MAIN HARNESS
29	LA/Y	TO MAIN HARNESS
30	LA/V	TO MAIN HARNESS
31	LA/GR	TO MAIN HARNESS
32	P	TO MAIN HARNESS

Connector No.	D5
Connector Name	JOINT CONNECTOR-D01
Connector Type	SAC08JW
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	B	GROUND
4	B	GROUND
5	LA/B	GROUND
6	B	GROUND (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	LA/B	GROUND (WITH AUTOMATIC DRIVE POSITIONER)
7	B	GROUND
8	LA/B	GROUND

Connector No.	D14
Connector Name	DOOR MIRROR LH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	LG	REAR DEFOGGER RELAY OUTPUT
3	–	–
4	LA/BR	SWITCH OUTPUT (COMMON)
5	LA/W	SWITCH OUTPUT (RIGHT)
6	–	–
7	GR	SV2 POWER 6.2V
8	G	SV2 POWER GND
9	–	–
10	B	GROUND
11	–	–
12	LA/GR	SWITCH OUTPUT (DOWN)
13	LA/G	O.D.I FR LEFT D
14	LA/B	GROUND
15	B	SV2 VIDEO GND
16	Y	SV2 VIDEO SIGNAL

Connector No.	D16
Connector Name	DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LA/BG	MIRROR SENSOR (LH VERTICAL)
2	LG	RELAY OUTPUT
3	LA/SB	POWER SUPPLY (SENSOR FOR 5V)
4	LA/BR	MIRROR MOTOR LH COMMON (DOWN&RIGHT)
5	LA/W	MIRROR MOTOR LH HORIZONTAL (LEFT)
6	–	–
7	–	–
8	–	–
9	LA/V	MIRROR SENSOR (LH HORIZONTAL)
10	B	GROUND
11	LA/Y	GND (SENSOR GND)
12	LA/GR	MIRROR MOTOR LH VERTICAL
13	LA/G	O.D.I FR LEFT D
14	LA/B	GROUND
15	–	–
16	–	–

AALIA6095GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	D101
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	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	P	TO MAIN HARNESS
5	R	TO MAIN HARNESS
6	SB	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	B	TO MAIN HARNESS
11	G	TO MAIN HARNESS
12	LA/V	TO MAIN HARNESS
13	LA/Y	TO MAIN HARNESS
14	LA/R	TO MAIN HARNESS
15	LA/V	TO MAIN HARNESS
16	LA/L	TO MAIN HARNESS
17	LA/BG	TO MAIN HARNESS
18	GR	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LA/G	TO MAIN HARNESS
22	LA/SB	TO MAIN HARNESS
23	LA/BG	TO MAIN HARNESS
24	LA/Y	TO MAIN HARNESS

Connector No.	D102
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	LA/B	TO MAIN HARNESS
2	B	TO MAIN HARNESS : (WITH AUTOMATIC DRIVE POSITIONER)
2	LA/G	TO MAIN HARNESS : (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	-	TO MAIN HARNESS
4	-	TO MAIN HARNESS
5	-	TO MAIN HARNESS
6	-	TO MAIN HARNESS
7	-	TO MAIN HARNESS
8	GR	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	L	TO MAIN HARNESS
12	V	TO MAIN HARNESS
13	LA/R	TO MAIN HARNESS
14	LA/G	TO MAIN HARNESS
15	-	TO MAIN HARNESS
16	-	TO MAIN HARNESS

Connector No.	D106
Connector Name	DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LA/BG	MIRROR SENSOR (RH VERTICAL)
2	GR	RELAY OUTPUT
3	LA/SB	POWER SUPPLY (SENSOR FOR 5V)
4	LA/R	MIRROR MOTOR RH (COMMON)
5	LA/Y	MIRROR MOTOR RH HORIZONTAL (LEFT)
6	-	-
7	-	-
8	-	-
9	LA/V	MIRROR SENSOR (RH HORIZONTAL)
10	B	GROUND
11	LA/V	GND (SENSOR GND)
12	LA/V	MIRROR MOTOR RH VERTICAL
13	LA/G	O DI FR RIGHT D
14	LA/B	GROUND
15	-	-
16	-	-

Connector No.	D107
Connector Name	DOOR MIRROR RH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	-	-
2	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
3	-	-
4	LA/R	SWITCH OUTPUT (COMMON)
5	LA/Y	SWITCH OUTPUT (RIGHT)
6	-	-
7	L	SV1 POWER 6.2V
8	V	SV1 POWER GND
9	-	-
10	LA/G	GROUND
11	-	-
12	LA/V	SWITCH OUTPUT (DOWN)
13	LA/G	O DI FR RIGHT D
14	LA/B	GROUND
15	B	SV1 VIDEO GND
16	Y	SV1 VIDEO SIGNAL

Connector No.	E29
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

132	131	130	129	128	127	126	125	124	123	122	121
144	143	142	141	140	139	138	137	136	135	134	133

Terminal No.	Color of Wire	Signal Name
121	-	-
122	-	-
123	-	-
124	-	-
125	LG	BRAKE SW2
126	W	BRAKE SW1
127	-	-
128	-	-
129	-	-
130	-	-
131	-	-
132	Y	BUZZER (WITH I-KEY)
133	-	-
134	-	-
135	BR	DI FR LEFT E
136	GR	DI FR RIGHT E
137	-	-
138	-	-
139	G	STCUT RL
140	-	-
141	-	-
142	-	-
143	-	-
144	-	-

AALIA6096GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	E103
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	HS03FGY
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	O DI FR RIGHT E
2	BR	GROUND
3	–	–

Connector No.	E105
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	HS03FGY
Connector Color	GRAY

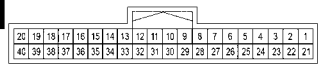
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	O DI FR LEFT E
2	B	GROUND
3	–	–

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

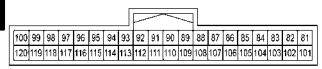
H.S.



Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

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

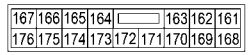
H.S.



Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



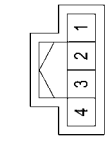
Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

AALIA6097GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M26
Connector Name	HAZARD SWITCH
Connector Type	TH04FW-NH
Connector Color	WHITE

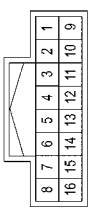
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	Y	I HAZARD SW D
3	GR	GROUND
4	R	ILL CONT OUT

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

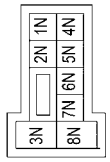
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	-	-
13	-	-
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1N	L	ACCESSORY RELAY 1 OUTPUT
2N	LG	BATTERY
3N	Y	FRONT BLOWER MOTOR RELAY OUTPUT
4N	LG	BATTERY
5N	R	BATTERY
6N	BG	BATTERY
7N	BR	ACCESSORY RELAY-1 CONTROL
8N	SB	FRONT BLOWER MOTOR RELAY OUTPUT

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

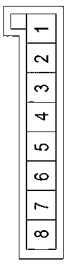


Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	-	-

12P	-	-
13P	G	BATTERY
14P	-	-
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M65
Connector Name	JOINT CONNECTOR-M26
Connector Type	SAC08JW
Connector Color	WHITE

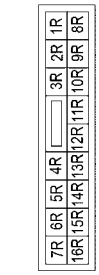
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	B	GROUND
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	B	GROUND
8	B	GROUND

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-

9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6098GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
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
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

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

Connector No.	M78
Connector Name	JOINT CONNECTOR-M28
Connector Type	SAC08JW
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	GR	GROUND
3	GR	GROUND
4	–	–
5	–	–
6	GR	GROUND
7	GR	GROUND
8	–	–

Connector No.	M91
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	B	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	GR	TO FRONT DOOR RH HARNESS
4	W	TO FRONT DOOR RH HARNESS
5	P	TO FRONT DOOR RH HARNESS
6	SB	TO FRONT DOOR RH HARNESS
7	B	TO FRONT DOOR RH HARNESS
8	L	TO FRONT DOOR RH HARNESS
9	Y	TO FRONT DOOR RH HARNESS
10	SHIELD	TO FRONT DOOR RH HARNESS
11	G	TO FRONT DOOR RH HARNESS
12	V	TO FRONT DOOR RH HARNESS
13	Y	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
13	LA/SB	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
14	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	LA/GR	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	V	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	LA/V	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LA/L	TO FRONT DOOR RH HARNESS
17	LA/BG	TO FRONT DOOR RH HARNESS
18	GR	TO FRONT DOOR RH HARNESS
19	LG	TO FRONT DOOR RH HARNESS
20	BR	TO FRONT DOOR RH HARNESS
21	LA/Y	TO FRONT DOOR RH HARNESS
22	SB	TO FRONT DOOR RH HARNESS
23	BG	TO FRONT DOOR RH HARNESS
24	Y	TO FRONT DOOR RH HARNESS

Connector No.	M158
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	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	–	TO FRONT DOOR RH HARNESS
4	–	TO FRONT DOOR RH HARNESS
5	–	TO FRONT DOOR RH HARNESS
6	–	TO FRONT DOOR RH HARNESS
7	–	TO FRONT DOOR RH HARNESS
8	SB	TO FRONT DOOR RH HARNESS
9	LA/BR	TO FRONT DOOR RH HARNESS
10	LA/GR	TO FRONT DOOR RH HARNESS
11	L	TO FRONT DOOR RH HARNESS
12	Y	TO FRONT DOOR RH HARNESS
13	GR	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
13	R	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
14	W	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
14	SB	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
15	–	TO FRONT DOOR RH HARNESS
16	–	TO FRONT DOOR RH HARNESS

AALIA6099GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M167
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	V	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G	TO FRONT DOOR LH HARNESS
4	BR	TO FRONT DOOR LH HARNESS
5	P	TO FRONT DOOR LH HARNESS
6	Y	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
6	LA/L	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
7	R	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
7	LA/BR	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	L	TO FRONT DOOR LH HARNESS
9	LA/BR	TO FRONT DOOR LH HARNESS
10	LA/GR	TO FRONT DOOR LH HARNESS
11	Y	TO FRONT DOOR LH HARNESS
12	BG	TO FRONT DOOR LH HARNESS
13	LA/G	TO FRONT DOOR LH HARNESS
14	LA/R	TO FRONT DOOR LH HARNESS
15	P	TO FRONT DOOR LH HARNESS
16	B	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

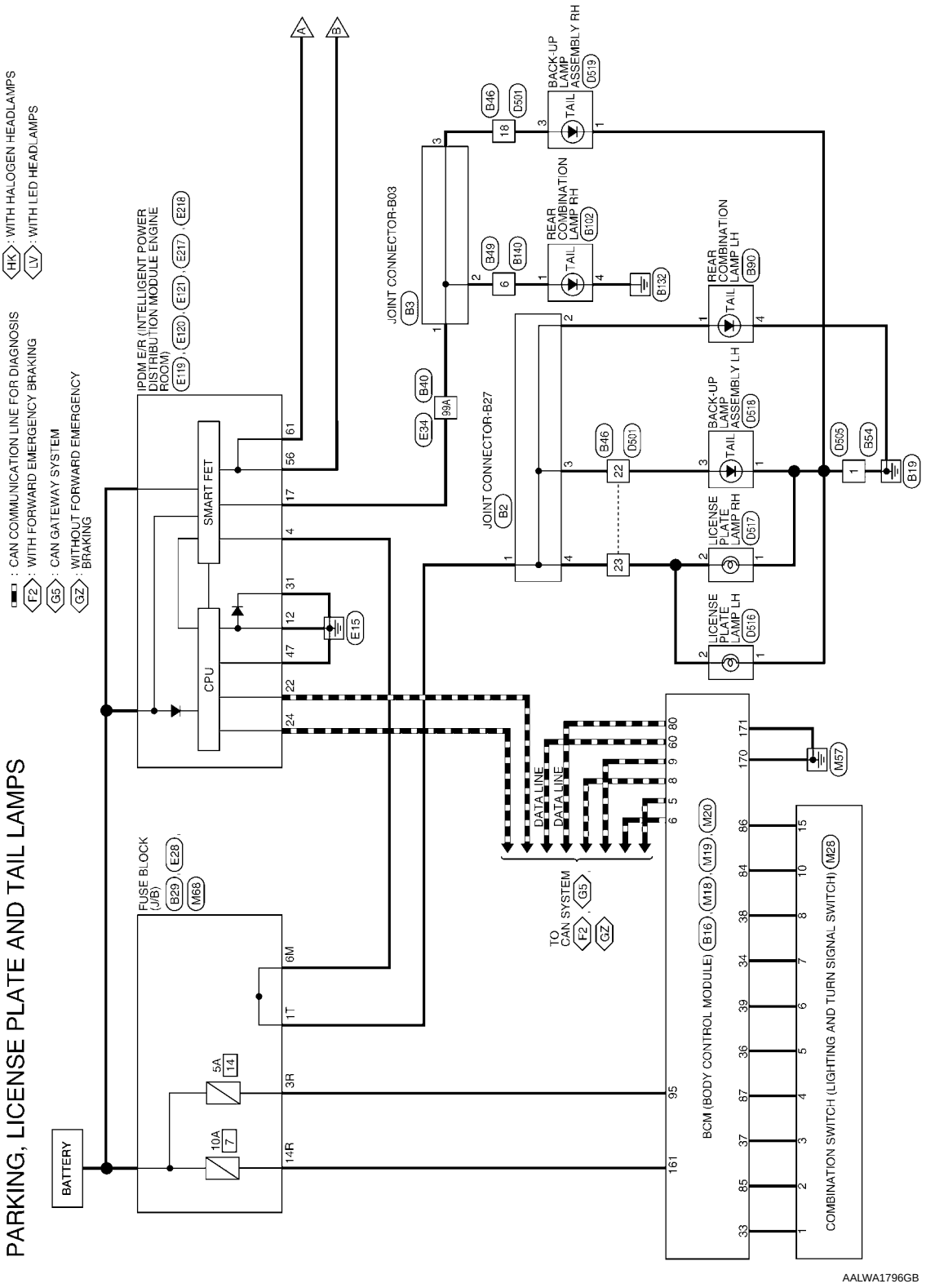
Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT DOOR LH HARNESS
2	GR	TO FRONT DOOR LH HARNESS
3	Y	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	SB	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
4	V	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
4	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
5	BR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
5	Y	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
6	LG	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	V	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
7	Y	TO FRONT DOOR LH HARNESS
8	V	TO FRONT DOOR LH HARNESS
9	BR	TO FRONT DOOR LH HARNESS
10	LG	TO FRONT DOOR LH HARNESS
11	L	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	G	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	SB	TO FRONT DOOR LH HARNESS
16	BG	TO FRONT DOOR LH HARNESS
17	SB	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	GR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	LA/GB	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	LA/GR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	BR	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	LA/V	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
20	GR	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
21	BR	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	LA/R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
23	R	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
24	GR	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS LED INDICATOR L
26	LA/G	TO FRONT DOOR LH HARNESS
27	LG	TO FRONT DOOR LH HARNESS
28	L	TO FRONT DOOR LH HARNESS
29	Y	TO FRONT DOOR LH HARNESS
30	V	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	P	TO FRONT DOOR LH HARNESS

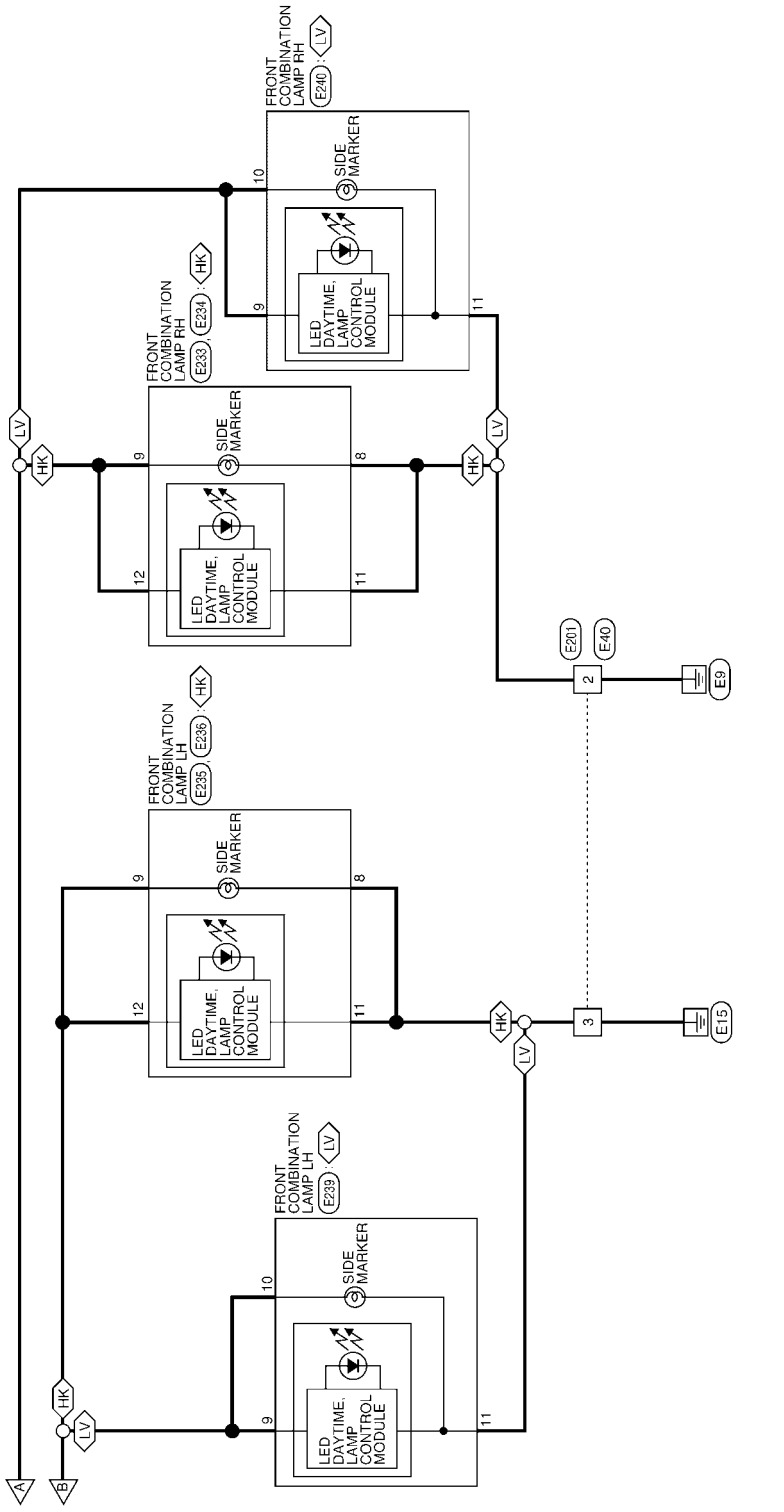
AALIA6100GB

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram

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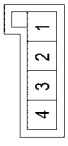



FRONT COMBINATION LAMP RH
E240
LV
SIDE MARKER
LED DAYTIME LAMP CONTROL MODULE
FRONT COMBINATION LAMP RH
E233
E234
HK
FRONT COMBINATION LAMP LH
E235
E236
FRONT COMBINATION LAMP LH
E239
E201
E40
E9
E15
A
B
AALWA1797GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	B2
Connector Name	JOINT CONNECTOR-B27
Connector Type	SAC04JW
Connector Color	WHITE

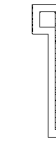
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/R	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR LH
4	LA/R	O LIGHT POSITION REAR LH

Connector No.	B3
Connector Name	JOINT CONNECTOR-B03
Connector Type	SAC04JW
Connector Color	WHITE

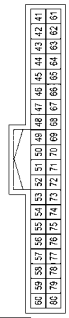
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/BR	O LIGHT POSITION REAR RH
3	LA/BR	O LIGHT POSITION REAR RH
4	–	–

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

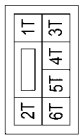
H.S.



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY
78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B29
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1T	LA/R	BATTERY
2T	–	–
3T	G	BATTERY
4T	LG	BATTERY
5T	G	BATTERY
6T	–	–

AALIA6076GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	B40
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
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	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

AALIA6077GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

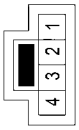
Connector No.	B90
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/Y	O STOP LAMP2 NISSAN EUR
3	GR	O DI RR LEFT B
4	B	GROUND

Connector No.	B102
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS
Connector Color	WHITE

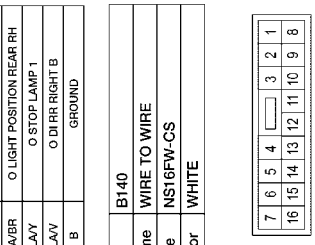
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/Y	O STOP LAMP 1
3	LA/V	O DI RR RIGHT B
4	B	GROUND

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

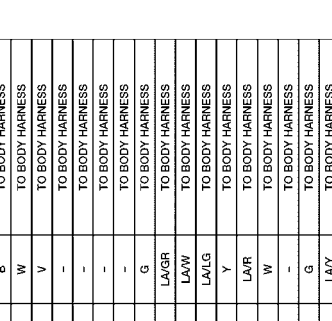
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

Connector No.	D516
Connector Name	LICENSE PLATE LAMP LH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	P	O LIGHT POSITION REAR LH

Connector No.	D517
Connector Name	LICENSE PLATE LAMP RH
Connector Type	TK02FBR
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	R	O LIGHT POSITION REAR RH

AALIA6078GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	D518
Connector Name	BACK-UP LAMP ASSEMBLY LH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	G	O LIGHT REVERSE LAMP
3	LA/Y	O LIGHT POSITION REAR LH

Connector No.	E28
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	–	–
2M	–	–
3M	–	–
4M	–	–
5M	V	BATTERY
6M	Y	O LIGHT POSITION REAR LH
7M	–	–
8M	–	–
9M	–	–
10M	–	–

Connector No.	D519
Connector Name	BACK-UP LAMP ASSEMBLY RH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1 2 3

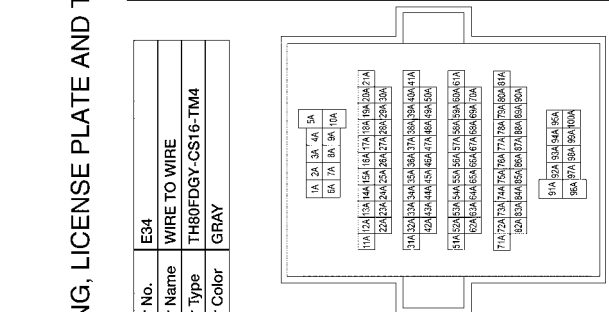
Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	L	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR RH

AALIA6079GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.



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

Connector No.	E40
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	-	TO FRONT END MODULE HARNESS
2	GR	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	-	TO FRONT END MODULE HARNESS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
3	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	-	-
6	-	-
7	-	-
8	BR	ACTUATOR4 CABIN (SFB4)
9	L	LO HORN RLY
10	-	-
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	-	-
14	-	-
15	-	-
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	-	-

AALIA6080GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

30	29	28	27	26	25	24	23	22	21	20	19
42	41	40	39	38	37	36	35	34	33	32	31

Terminal No.	Color of Wire	Signal Name
19	LG	IGN EGM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	24340540BR
Connector Color	RED

H.S.

45	44	43
48	47	46

Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	BAT ABS VALVE
45	V	FR WIPER HI
46	W	FUEL PUMP
47	B	POWER GROUND
48	Y	FR WIPER LO

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

2	1
4	3

Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E217
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	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

59		58	57
64	63	62	61	60

Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E233
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.

4	5	6
7	8	9

Terminal No.	Color of Wire	Signal Name
4	SB	O LIGHT LBEAM RH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	W	O LIGHT CLEARANCE FR RH

Connector No.	E234
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

10	11	12
13	14	15

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL RH
11	GR	GROUND
12	GR	O LIGHT CLEARANCE FR RH
13	–	–
14	B	GROUND
15	LG	O LIGHT HBEAM RH

AALIA6081GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E235
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	L	O LIGHT LBEAM LH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	P	O LIGHT CLEARANCE FR LH

Connector No.	E236
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL LH
11	GR	GROUND
12	BG	O LIGHT CLEARANCE FR LH
13	–	–
14	B	GROUND
15	G	O LIGHT HBEAM LH

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	G	O LIGHT HBEAM LH
6	L	O LIGHT LBEAM LH
7	GR	LI LED DETECTION 2
8	R	O LIGHT DTRL LH
9	BG	O LIGHT CLEARANCE FR LH
10	P	O LIGHT CLEARANCE FR LH
11	B	GROUND

Connector No.	E240
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	LG	O LIGHT HBEAM RH
6	SB	O LIGHT LBEAM RH
7	Y	LI LED DETECTION 1
8	R	O LIGHT DTRL RH
9	GR	O LIGHT CLEARANCE FR RH
10	W	O LIGHT CLEARANCE FR RH
11	B	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6082GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

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

H.S.

102	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M68
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

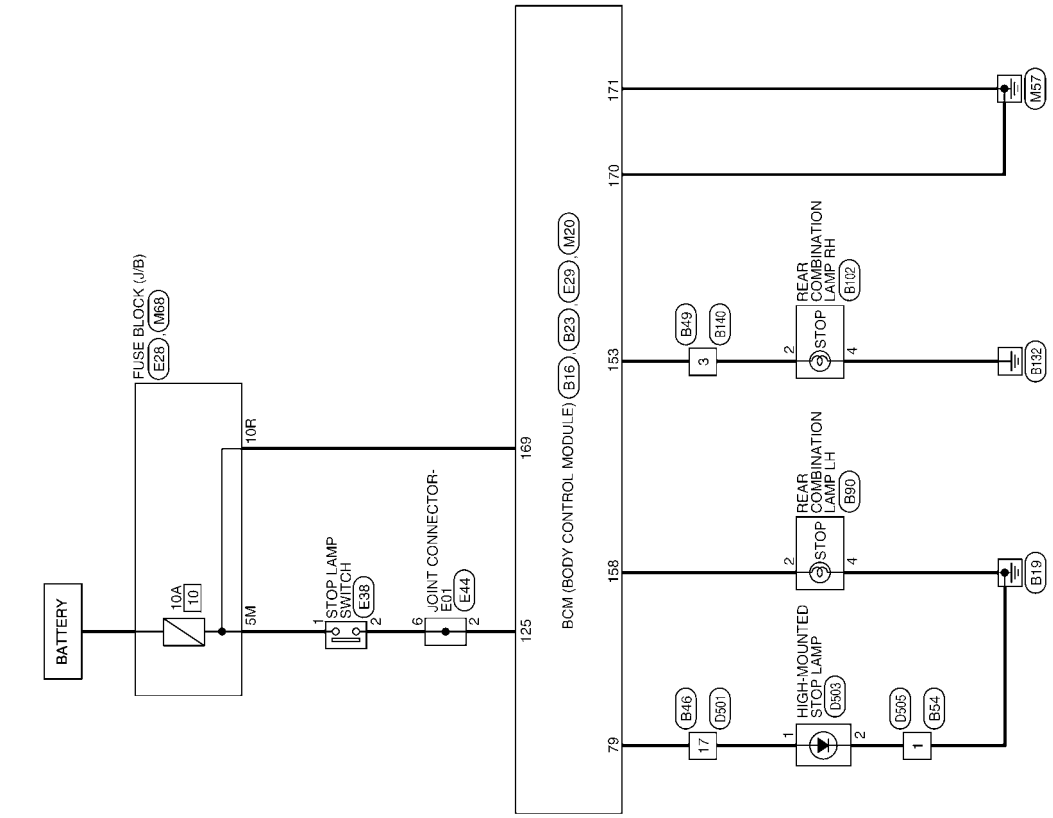
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6874GB

STOP LAMP

Wiring Diagram

INFOID:0000000014623092



STOP LAMP CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

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	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.

151	150	149	148		147	146	145
160	159	158	157	156	155	154	153	152

Terminal No.	Color of Wire	Signal Name
145	LA/V	TGATE OPENER
146	–	–
147	LA/R	RR WIPER
148	W	RR UNLOCK B
149	L	RR LOCK B
150	–	–
151	R	PWM ROOMLAMP 5
152	–	–
153	LA/W	STOP LAMP1
154	–	–
155	–	–
156	–	–
157	GR	DI RR LEFT B
158	LA/Y	STOP LAMP2 NISSAN EUR
159	–	–
160	P	DI RR RIGHT B

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
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	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS

8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

Connector No.	B90
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

4	3	2	1

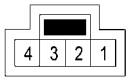
Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/Y	O STOP LAMP2 NISSAN EUR
3	GR	O DI RR LEFT B
4	B	GROUND

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STOP LAMP CONNECTORS

Connector No.	B102
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS
Connector Color	WHITE

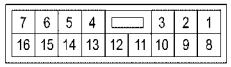
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/Y	O STOP LAMP 1
3	LA/V	O DI RR RIGHT B
4	B	GROUND

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

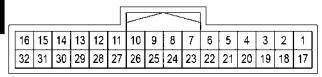


Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

AALIA6086GB

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D503
Connector Name	HIGH-MOUNTED STOP LAMP
Connector Type	TK02MW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	O STOP LAMP 3
2	B	GROUND

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

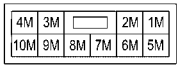
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE

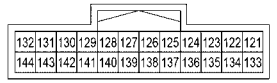
H.S.



Terminal No.	Color of Wire	Signal Name
1M	–	–
2M	–	–
3M	–	–
4M	–	–
5M	V	BATTERY
6M	Y	O LIGHT POSITION REAR LH
7M	–	–
8M	–	–
9M	–	–
10M	–	–

Connector No.	E29
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
121	–	–
122	–	–
123	–	–
124	–	–
125	LG	BRAKE SW2
126	W	BRAKE SW1
127	–	–
128	–	–
129	–	–
130	–	–
131	–	–
132	Y	BUZZER (WITH I-KEY)
133	–	–
134	–	–
135	BR	DI FR LEFT E
136	GR	DI FR RIGHT E
137	–	–
138	–	–
139	G	STCUT RL
140	–	–
141	–	–
142	–	–
143	–	–
144	–	–

STOP LAMP CONNECTORS

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

H.S.

3	4
1	2

Terminal No.	Color of Wire	Signal Name
1	V	BATTERY
2	LG	I BRAKE SW2
3	L	IGNITION
4	W	STOP LAMP SWITCH OUTPUT

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	NH24FG-J
Connector Color	GREEN

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	V	SENSOR GROUND
2	LG	I BRAKE SW2
3	P	CAN-L
4	L	CAN-H
5	B	SENSOR GROUND
6	LG	I BRAKE SW2
7	P	CAN-L
8	L	CAN-H
9	W	SENSOR GROUND
10	Y	STOP LAMP SWITCH
11	P	CAN-L
12	L	CAN-H
13	-	-
14	R	STOP LAMP SWITCH
15	P	CAN-L
16	L	CAN-H

17	BR	EVAP CONTROL SYSTEM PRESSURE SENSOR
18	-	-
19	P	CAN-L
20	L	CAN-H
21	L	EVAP CONTROL SYSTEM PRESSURE SENSOR
22	-	-
23	-	-
24	-	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	-	-
165	V	DR OR FR LOCK D
166	-	-
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	-	-
174	-	-
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

Connector No.	M68
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

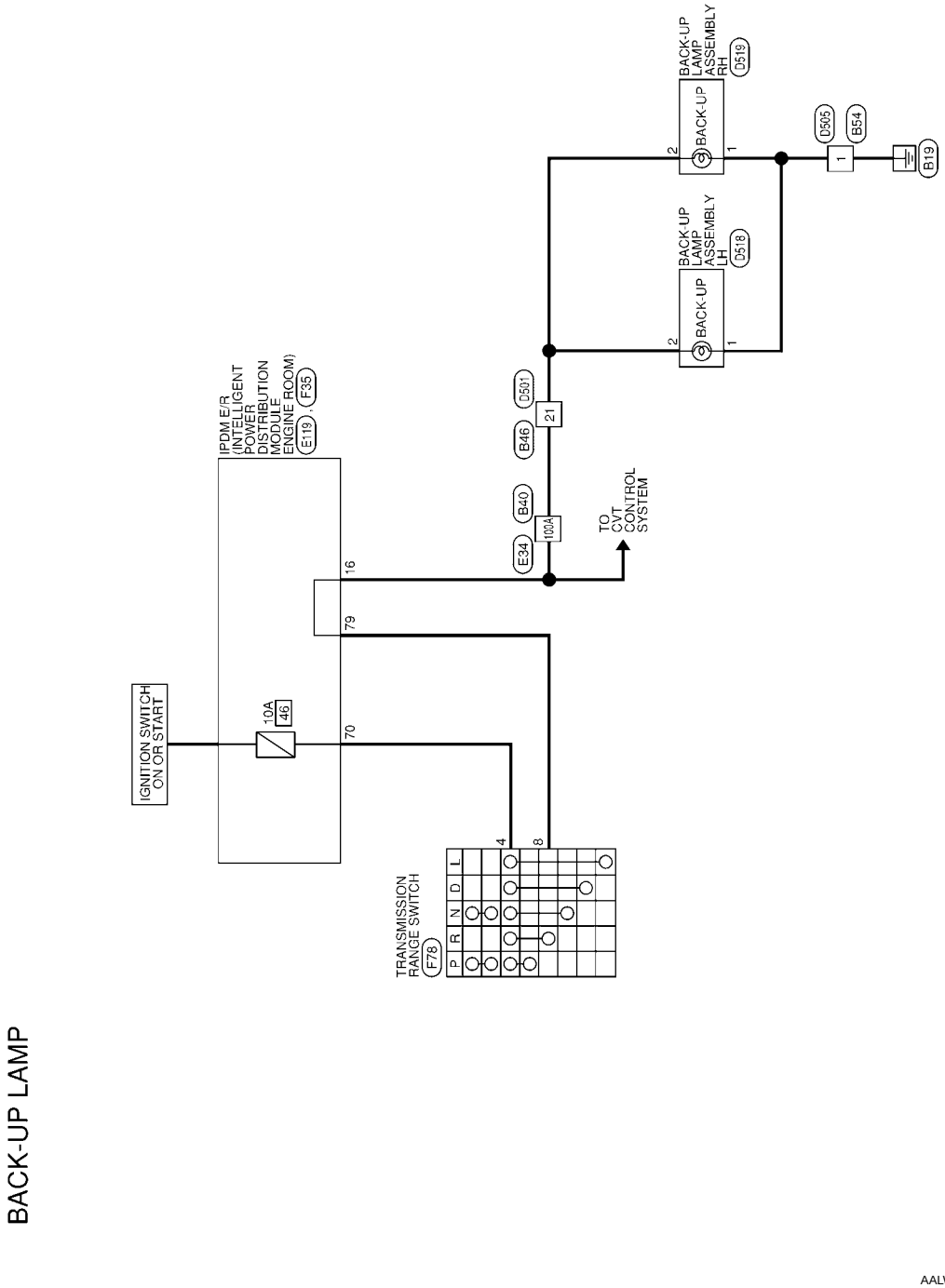
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-
9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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BACK-UP LAMP

Wiring Diagram

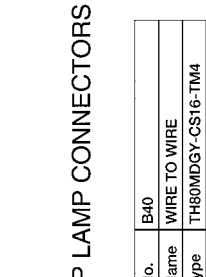
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BACK-UP LAMP CONNECTORS

Connector No.	B40
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.



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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

AALIA6052GB

BACK-UP LAMP CONNECTORS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

1	GR	GROUND
2	L	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR RH

Connector No.	D518
Connector Name	BACK-UP LAMP ASSEMBLY LH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1	2	3

Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	G	O LIGHT REVERSE LAMP
3	LA/Y	O LIGHT POSITION REAR LH

Connector No.	D519
Connector Name	BACK-UP LAMP ASSEMBLY RH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1	2	3

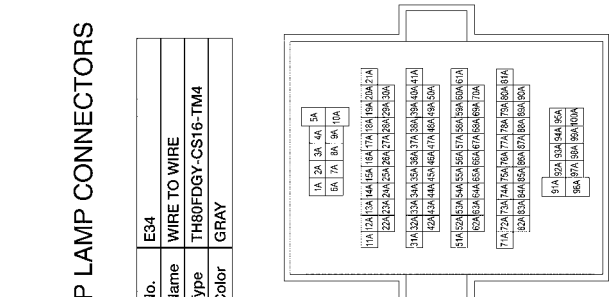
Terminal No.	Color of Wire	Signal Name

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BACK-UP LAMP CONNECTORS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.



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

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

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	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	–	–

Connector No.	F35
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

71	70	69	68		67	66	65
80	79	78	77	76	75	74	73	72

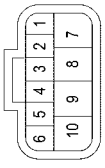
Terminal No.	Color of Wire	Signal Name
65	–	–
66	W	ACTUATOR1 1 (3FB)
67	V	LI ECM ACT5 DRIVER
68	–	–
69	–	–
70	R	IGN AT LPG
71	Y	IGN REVERSE SW AC VALVE
72	LG	ACTUATOR5 (3FBA)
73	G	ACTUATOR1 2 (3FB)
74	–	–
75	R	ACTUATOR3 (3FB3)
76	P	LI FUEL PUMP DRIVER
77	–	–
78	BR	ACTUATOR2 (3FB2)
79	G	LI LIGHT REVERSE SW
80	–	–

AALIA6054GB

BACK-UP LAMP CONNECTORS

Connector No.	F78
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	YDX06FB-HS4
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	Y	D RANGE SW
3	–	–
4	R	VIGN
5	V	P RANGE SW
6	SB	L RANGE SW
7	Y	IGN AT LPG
8	G	R RANGE SW
9	R	N RANGE SW
10	BG	LI NP SW

AALIA6055GB

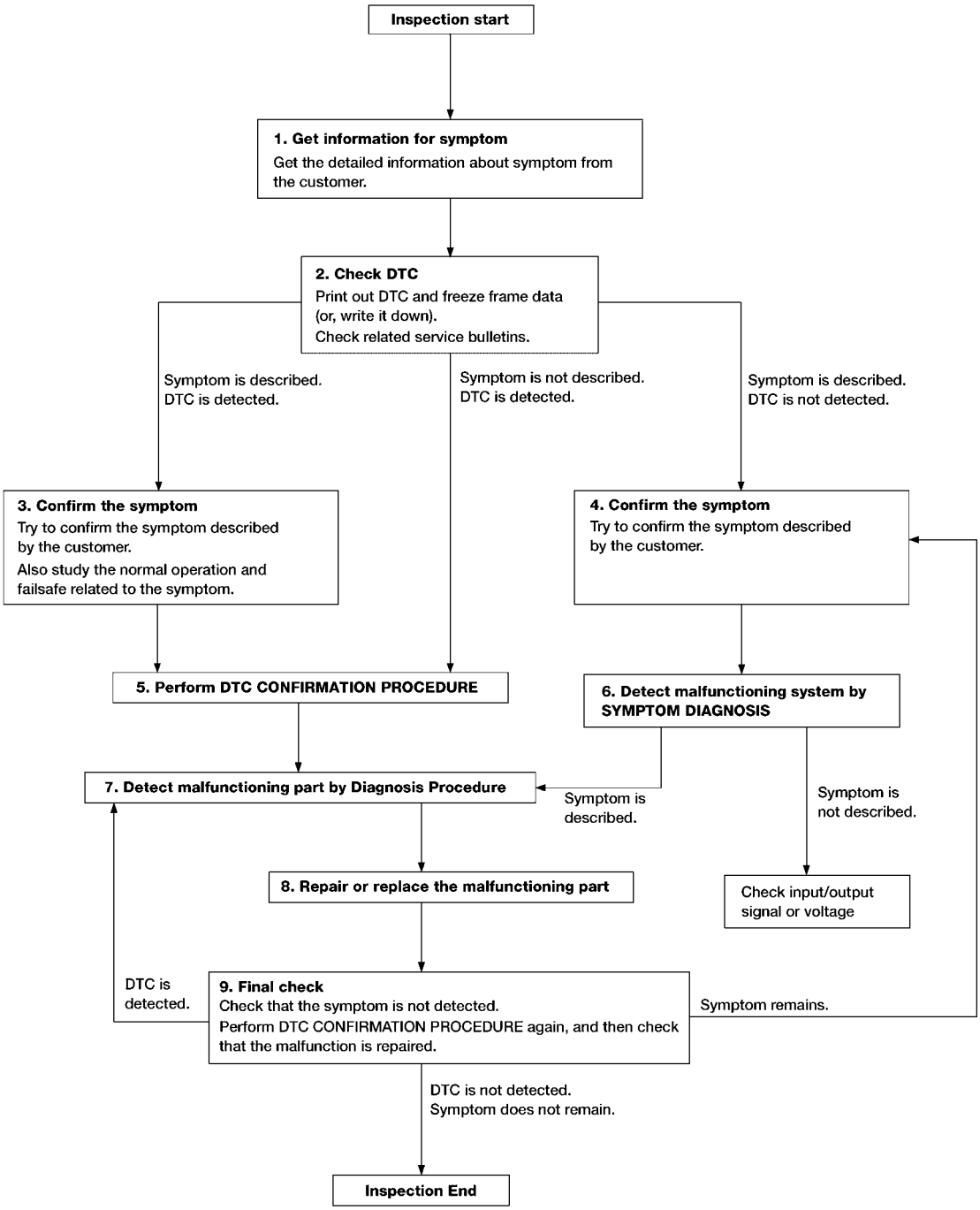
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000014623094

OVERALL SEQUENCE



ALAIA0158GB

DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-47, "DTC Inspection Priority Chart" (BCM) or PCS-17, "Reference Value" (IPDM E/R), and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-54, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-54, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.
YES-2 >> Symptom remains: GO TO 4.
NO >> Before returning the vehicle to the customer, always erase DTC.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000015191402

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)
167	Power door lock battery power supply	5 (20A)
168	Turn signal/hazard battery power supply	1 (15A)
169	Stop lamp battery power supply	10 (10A)
175	Power door lock2 battery power supply	3 (20A)
176	Rear wiper battery power supply	4 (15A)

Is the fuse blown?

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

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M20.
2. Check voltage between BCM connector M20 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M20	161	—	Battery voltage
	167		
	168		
	169		
	175		
	176		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	170	—	Yes
	171		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

OPTICAL SENSOR

Component Function Check

INFOID:0000000014623101

1.CHECK OPTICAL SENSOR SIGNAL BY CONSULT

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

Monitor item	Condition		Voltage (Approx.)
OPTICAL SENSOR	Optical sensor	When illuminating	3.1 V or more *
		When shutting off light	0.6 V or less

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

Is the inspection result normal?

YES >> Optical sensor is normal.
NO >> Refer to EXL-84, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623102

1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

(+)		(–)	Voltage (Approx.)
Optical sensor			
Connector	Terminal		
M13	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 and ground.

(+)		(–)	Voltage (Approx.)
Optical sensor			
Connector	Terminal		
M13	3	Ground	0 V

Is the inspection result normal?

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

3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

(+)		(–)	Condition		Voltage (Approx.)
Optical sensor					
Connector	Terminal				
M13	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-120, "Removal and Installation".

4. CHECK OPTICAL SENSOR (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	1	M18	12	Yes

Is the inspection result normal?

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

5. CHECK OPTICAL SENSOR (SHORT) CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor		Ground	Continuity
Connector	Terminal		
M13	1		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK OPTICAL SENSOR GROUND (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	3	M18	30	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

7. CHECK OPTICAL SENSOR SIGNAL (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	2	M18	19	Yes

Is the inspection result normal?

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

8. CHECK OPTICAL SENSOR (SHORT) CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor		Ground	Continuity
Connector	Terminal		
M13	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

HAZARD SWITCH

Component Function Check

INFOID:0000000014623103

1.CHECK HAZARD SWITCH SIGNAL BY CONSULT

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

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

Is the inspection result normal?

YES >> Hazard switch circuit is normal.
NO >> Refer to EXL-87, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623104

1.CHECK HAZARD SWITCH SIGNAL INPUT

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

(+)		(–)	Voltage (Approx.)
Hazard switch			
Connector	Terminal		
M26	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HAZARD SWITCH SIGNAL (OPEN) CIRCUIT

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

Hazard switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M26	2	M18	11	Yes

Is the inspection result normal?

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

3.CHECK HAZARD SWITCH SIGNAL (SHORT) CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch		Ground	Continuity
Connector	Terminal		
M26	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

4. CHECK HAZARD SWITCH GROUND (OPEN) CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch		Ground	Continuity
Connector	Terminal		
M26	3		Yes

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-122, "Removal and Installation".
NO >> Repair or replace harness.

TURN SIGNAL LAMP CIRCUIT

Description

INFOID:0000000014623105

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.
The BCM performs the fast flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is open.
NOTE:
Turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:0000000014623106

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 lamps (LH) ON
RH : Turn signal lamps (RH) ON
Off : Turn signal lamps OFF

Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.
NO >> Refer to EXL-89, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623107

Regarding Wiring Diagram information, refer to EXL-52, "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.

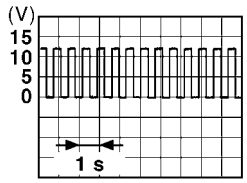
Is the bulb OK?

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

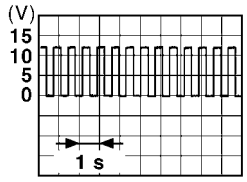
2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

1. Turn the ignition switch OFF.
2. Disconnect the front combination lamp harness connector, door mirror harness connector or the side turn signal harness connector or the rear combination lamp harness connector in question.
3. Turn the ignition switch ON.
4. While the turn signal is operating, check the voltage between the front combination lamp harness connector and ground.

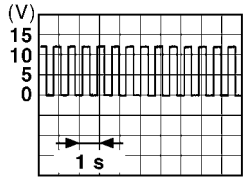
(+)		(–)	Voltage (Approx.)
Connector	Terminal		

LH	E105	1	Ground	 PKID0926E
RH	E103			

5. While the turn signal is operating, check the voltage between the door mirror harness connector and ground.

(+)			(–)	Voltage (Approx.)
Connector		Terminal		
LH	D14 (without automatic drive positioner) D16 (with automatic drive positioner)	13	Ground	 PKID0926E
RH	D107 (without automatic drive positioner) D106 (with automatic drive positioner)			

6. While the turn signal is operating, check the voltage between the rear combination lamp harness connector and ground.

(+)			(–)	Voltage (Approx.)
Connector		Terminal		
LH	B90	3	Ground	 PKID0926E
RH	B102			

Are the inspection results normal?

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

3. CHECK TURN SIGNAL LAMP CIRCUIT FOR OPEN

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

BCM			Front combination lamp		Continuity
Connector		Terminal	Connector	Terminal	
LH	E29	135	E105	1	Yes
RH		136	E103		

4. Check continuity between the BCM harness connector and the door mirror harness connector.

BCM			Door mirror		Continuity
Connector		Terminal	Connector	Terminal	
LH	M18	2	D14	13	Yes
RH		3	D107		

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

BCM			Rear combination lamp		Continuity
Connector		Terminal	Connector	Terminal	
LH	B23	157	B90	3	Yes
RH		160	B102		

Are the inspection results normal?

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

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

1. Check continuity between the BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
LH	E29	135	No
RH		136	

2. Check continuity between the BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
LH	B18	2	No
RH		3	

3. Check continuity between the BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
LH	B23	157	No
RH		160	

Are the inspection results normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace the harness or connectors.

5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Check continuity between the front combination lamp harness connector, the door mirror connector or the rear combination lamp harness connector in question and ground.

Front combination lamp			(–)	Continuity
Connector		Terminal		
LH	E105	2	Ground	Yes
RH	E103			

3. Check continuity between the door mirror harness connector and ground.

Door mirror		(–)	Continuity
Connector	Terminal		

LH	D14 (without automatic drive positioner) D16 (with automatic drive positioner)	14	Ground	Yes
RH	D107 (without automatic drive positioner) D106 (with automatic drive positioner)			

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

Rear combination lamp			(–)	Continuity
Connector		Terminal		
LH	B90	4	Ground	Yes
RH	B102			

Are the inspection results normal?

YES >> Replace the malfunctioning lamp.
NO >> Repair or replace the harness or connectors.

B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623108

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B121A	FR FOG LAMP LH PWR SPLY CIRC [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R fog lamp supply circuit (terminal 51)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Fog lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓐ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result”“IPDM E/R”.
3. Check DTC.

Is DTC B121A detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-93, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623109

1.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	51		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Fog lamp			Ground	Continuity
Connector		Terminal		
LH	E222	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623110

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B1231	DTRL RH PWR SPLY CIRC [CIRC SHORT TO GRND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R daytime running lamp supply circuit (terminal 58)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Daytime running lamp RH power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B1231 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-94, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623111

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	58		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E234	10		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623112

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B1256	FR FOG LAMP RH PWR SPLY CIRC [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R fog lamp supply circuit (terminal 57)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Fog lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓡ CONSULT.

1. Turn ignition switch ON.
2. Perform “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B1256 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-95, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623113

1.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	57		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Fog lamp			Ground	Continuity
Connector		Terminal		
RH	E221	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623114

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B02CB	DTRL LH PWR SPLY CIRC [CIRC SHORT TO GRND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R daytime running lamp supply circuit (terminal 49)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Daytime running lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B02CB detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-96, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623115

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	49		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E236	10		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623116

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20CE	O LIGHT HBEAM LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp HI supply circuit (terminal 59)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp HI power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓡ CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20CE detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-97, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623117

1.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	59		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E236	15		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623118

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20CF	O LIGHT HBEAM RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp HI supply circuit (terminal 54)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp HI power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20CF detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-98, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623119

1.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	54		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E234	15		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623120

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D0	O LIGHT LBEAM LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp LO supply circuit (terminal 50)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp LO power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓡ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D0 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-99, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623121

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	50		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E235	4		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623122

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D1	O LIGHT LBEAM RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp LO supply circuit (terminal 62)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp LO power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D1 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-100, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623123

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	62		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E233	4		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D2 PARKING LAMP POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623124

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D2	O LIGHT CLEARANCE FR [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R front parking lamp supply circuit (terminals 56 or 61)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Front parking lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓡ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D2 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-101, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623125

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Disconnect front combination lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R			Ground	Continuity
Connector		Terminal		
LH	E217	56		No
RH	E218	61		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp				Continuity
Connector		Terminal		
LH	E236 (parking lamp)	12	Ground	No
	E235 (side marker lamp)	9		
RH	E234 (parking lamp	12		
	E233 (side marker lamp)	9		

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623126

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D4	O LIGHT POSITION REAR LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R tail lamp supply circuit (terminal 4)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Tail lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓐ CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D4 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-103, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623127

1.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Disconnect rear combination lamp (LH), license plate lamps, back up lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E119	4		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between rear combination lamp harness connector and ground.

Rear combination lamp			Ground	Continuity
Connector		Terminal		
LH	B90	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623128

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D5	O LIGHT POSITION REAR RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R tail lamp supply circuit (terminal 17)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Tail lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D5 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-104, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623129

1.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Disconnect rear combination lamp (RH), back up lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E119	17		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between rear combination lamp harness connector and ground.

Rear combination lamp			Ground	Continuity
Connector		Terminal		
RH	B102	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000014623130

CAUTION:
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 • Halogen bulb (HI) • Harness between IPDM E/R and headlamp (HI) • Harness between headlamp (HI) and ground • IPDM E/R	Headlamp (HI) circuit Refer to EXL-97, "DTC Logic" (LH) or EXL-98, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** "BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON" Refer to EXL-97, "DTC Logic" (LH) or EXL-98, "DTC Logic" (RH).	
High beam indicator lamp is not turned ON. [Headlamp (HI) is turned ON.]		Combination meter	• Combination meter "Data Monitor""HI-BEAM IND" • BCM (HEAD LAMP) "Active Test""HEADLAMP"
Headlamp (LO) is not turned ON.	One side	• Fuse • Halogen bulb (LO) • Harness between IPDM E/R and headlamp lamp (LO) • Harness between headlamp (LO) and ground • IPDM E/R	Headlamp (LO) circuit Refer toEXL-99, "DTC Logic" (LH) or EXL-100, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** "BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON" Refer toEXL-99, "DTC Logic" (LH) or EXL-100, "DTC Logic" (RH).	
Each lamp is not turned ON/OFF with lighting switch AUTO.		• Combination switch • Harness between combination switch and BCM • BCM	Combination switch Refer to BCS-71, "Symptom Table".
		• Optical sensor • Harness between optical sensor and BCM • BCM	Optical sensor Refer to EXL-84, "Component Function Check".
Daytime running light is not turned ON. [Headlamp (HI) is turned ON.]		• Fuse • Harness between IPDM E/R and front combination lamp • IPDM E/R • BCM • ECM • Combination meter	• Daytime running light circuit Refer to EXL-94, "DTC Logic". • BCM (HEADLAMP) "Data Monitor""ENGINE STATE" • Combination meter "Data Monitor""PKB SW" • BCM (HEADLAMP) "Active Test""DAYTIME RUNNING LIGHT"
Parking lamp is not turned ON.		• Fuse • Parking lamp bulb • Harness between IPDM E/R and front combination lamp • IPDM E/R	Parking lamp circuit Refer to EXL-101, "DTC Logic".

Symptom		Possible cause	Inspection item
Front side marker lamp is not turned ON.		• Front side marker lamp bulb • Harness between IPDM E/R and front side marker lamp • Harness between front side marker lamp and ground • IPDM E/R	Front side marker lamp circuit Refer to EXL-101, "DTC Logic".
License plate lamp is not turned ON.		• License plate lamp bulb • Harness between IPDM E/R and license plate lamp • Harness between license plate lamp and ground	License plate lamp circuit Refer to EXL-103, "DTC Logic".
Parking lamp, side marker lamp, tail lamp and license plate lamp are not turned ON.		**Symptom diagnosis** "PARKING, SIDE MARKER, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-101, "DTC Logic".	
Tail lamp indicator is not turned ON. (Exterior lamps are turned ON.)		Combination meter	• Combination meter "Data Monitor""LIGHT IND" • BCM (HEADLAMP) "Active Test""TAIL LAMP"
Turn signal lamp does not blink.	Indicator lamp is normal. (Applicable side performs high flasher activation.)	• Turn signal lamp bulb • Door mirror • Harness between BCM and each turn signal lamp • Harness between each turn signal lamp and ground	Turn signal lamp circuit Refer to EXL-89, "Component Function Check".
Turn signal indicator lamp does not blink. (Turn signal lamp is normal.)	One side	Combination meter	—
	Both sides (Always)	• Turn signal indicator lamp signal • BCM • Combination meter	• Combination meter "Data Monitor""TURN IND" • BCM (FLASHER) "Active Test""FLASHER"
	Both sides (Only when activating hazard warning lamp with ignition switch OFF)	• Combination meter power supply and ground circuit • Combination meter	Combination meter Power supply and ground circuit Refer to MWI-62, "COMBINATION METER : Diagnosis Procedure".
• Hazard warning lamp does not activate. • Hazard warning lamp continues activating. (Turn signal is normal.)		• Hazard switch • Harness between hazard switch and BCM • Harness between hazard switch and ground • BCM	Hazard switch circuit Refer to EXL-87, "Component Function Check".
Front fog lamp is not turned ON.	One side	• Front fog lamp bulb • Harness between IPDM E/R and front fog lamp • Harness between front fog lamp and ground • IPDM E/R	Front fog lamp circuit Refer to EXL-93, "DTC Logic" (LH) or EXL-95, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-93, "DTC Logic" (LH) or EXL-95, "DTC Logic" (RH).	

NORMAL OPERATING CONDITION

Description

INFOID:0000000014623131

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 caused by the control difference. This is normal.

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description

INFOID:0000000014623132

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:0000000014623133

1.COMBINATION SWITCH INSPECTION

Check combination switch. Refer to BCS-71, "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

CONSULT
1. Select “HEADLAMP (HI)” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the lighting switch, check the monitor status.

Monitor item	Condition		Monitor status
HEADLAMP (HI)	Lighting switch (2ND)	HI or PASS	On
		LO	Off

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check headlamp (HI) circuit. Refer to EXL-97, "DTC Logic" (LH) or EXL-98, "DTC Logic" (RH).

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description

INFOID:0000000014623134

Both side headlamps (LO) are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000014623135

1.CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-71, "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

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

Monitor item	Condition		Monitor status
HEADLAMP (LO)	Lighting switch	2ND	On
		OFF	Off

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check headlamp (LO) circuit. Refer to EXL-99, "DTC Logic" (LH) or EXL-100, "DTC Logic" (RH).

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Repair or replace the malfunctioning part.

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

Description

INFOID:0000000014623136

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

Diagnosis Procedure

INFOID:0000000014623137

1.COMBINATION SWITCH INSPECTION

Check combination switch. Refer to BCS-71, "Symptom Table".

Is the combination switch normal?

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

2.CHECK TAIL LAMP REQUEST SIGNAL INPUT

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

Monitor item	Condition		Monitor status
TAIL LAMP	Lighting switch	1ST	On
		OFF	Off

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description

INFOID:0000000014623138

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

Diagnosis Procedure

INFOID:0000000014623139

1.CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-71, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

CONSULT
1. Select “FRONT FOG LAMP 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
FRONT FOG LAMP REQ	Front fog lamp switch (With lighting switch 2ND)	ON	On
		OFF	Off

Is the item status normal?

YES >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Inspection

INFOID:0000000014623140

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's 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.)

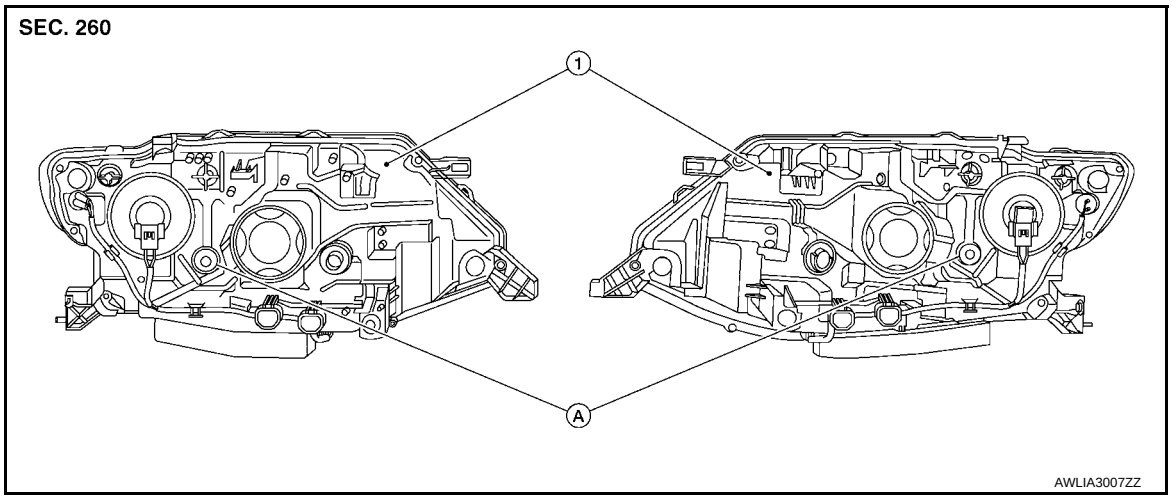
- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Aim each headlamp individually and ensure other headlamp 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

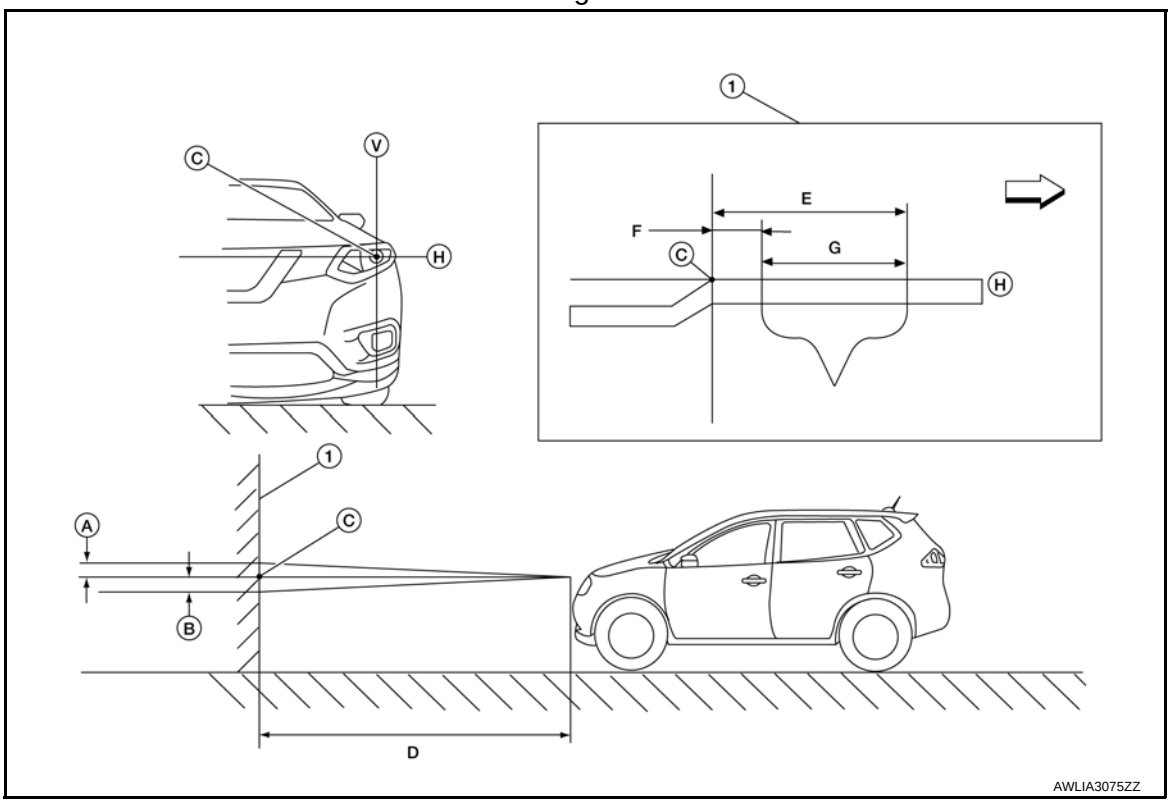


1. Front combination lamp (view from rear)
A. Headlamp HI/LO (UP/DOWN) adjustment screw

Aiming Adjustment Procedure

INFOID:0000000014623141

Aiming Chart



1.	Adjustment screen	A.	Highest cutoff line height	B.	Lowest cutoff line height
C.	Headlamp bulb center (H-V point)	D.	Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)	E.	Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)
F.	Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)	G.	Aim evaluation area	H.	Horizontal aiming evaluation line
V.	Vertical aiming evaluation line	⇦	Right		

A (Highest cutoff line height)	**7.0 mm (0.28 in)**	**0.05° up**
B (Lowest cutoff line height)	**7.0 mm (0.28 in)**	**0.05° 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 a tape etc. The lens is made of resin.
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 (D) : 7.62 m (25 ft)

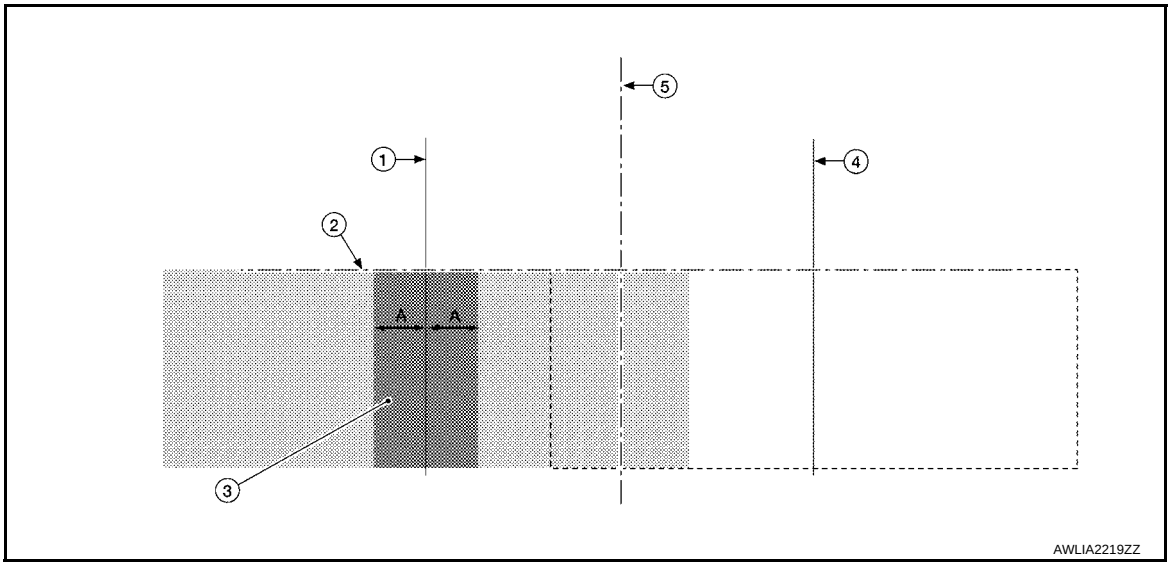
5. Start the engine. Turn the headlamp on.
6. Determine the preferred vertical aim range dimensions, using the aiming chart.
7. Measure the projected beam within the aim evaluation segment on the screen.
8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

FRONT FOG LAMP AIMING ADJUSTMENT

Aiming Adjustment Procedure

INFOID:0000000014623142

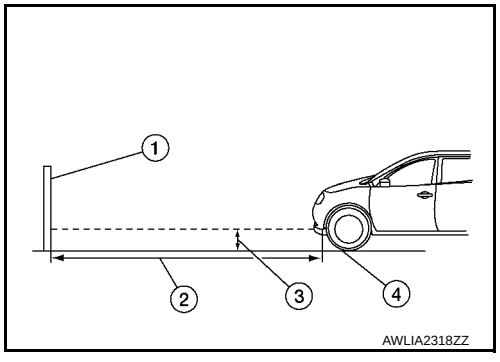
Aiming Chart



1. Vertical center line of front fog lamp (LH)
2. Lamp center above ground
3. Front fog lamp high intensity area (LH)
4. Vertical center line of front fog lamp (RH)
5. Vertical center axis
A. 100mm (4in)

NOTE:
- (LH) Front fog lamp aiming specifications shown, (RH) similar.
- Check the following conditions before performing the aiming adjustment.
- Keep all tires inflated to correct pressure.
- Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite front fog lamp.

1. Set the distance between the screen and the center of the front fog lamp lens as shown.
   (1) Aiming screen or a matte white surface
   (2) 7.62 m (25 ft)
   (3) Floor to center of front fog lamp lens
   (4) Floor



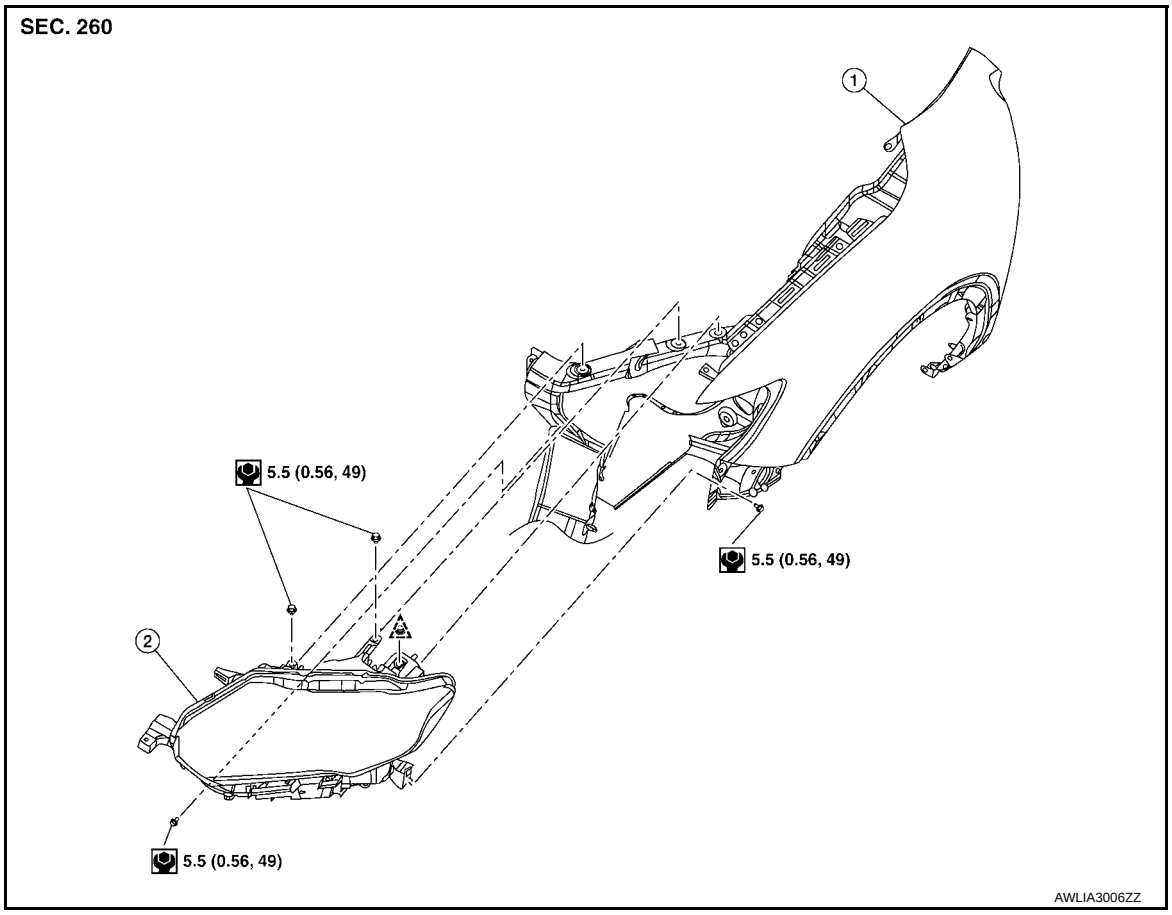
2. Turn front fog lamps ON.
3. Access adjusting screw from underneath front bumper fascia. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is at the front fog lamp centers above ground.

REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

INFOID:0000000014623143



1. Front fender
2. Front combination lamp
Clip

Removal and Installation

INFOID:0000000014623144

REMOVAL

1. Remove front bumper fascia. Refer to EXT-25, "Exploded View".
2. Remove front combination lamp bolts and clip.
3. Pull front combination lamp forward.
4. Disconnect the harness connectors from the front combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installation, perform headlamp aiming adjustment. Refer to EXL-112, "Inspection".

Bulb Replacement

INFOID:0000000014623145

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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

HEADLAMP (LOW BEAM) BULB

Removal

1. Rotate the bulb counterclockwise and remove from the front combination lamp.
2. Disconnect the harness connector from bulb and remove.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

HEADLAMP (HIGH BEAM) BULB

Removal

1. Remove plastic cover.
2. Rotate the bulb counterclockwise and remove from the front combination lamp.
3. Disconnect the harness connector from bulb and remove.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

SIDE MARKER LAMP BULB

Removal

1. Rotate the bulb counterclockwise and remove from the front combination lamp.
2. Remove the bulb from the bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

TURN SIGNAL LAMP BULB

Removal

1. Rotate bulb socket counterclockwise and remove from the front combination lamp.
2. Remove the bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

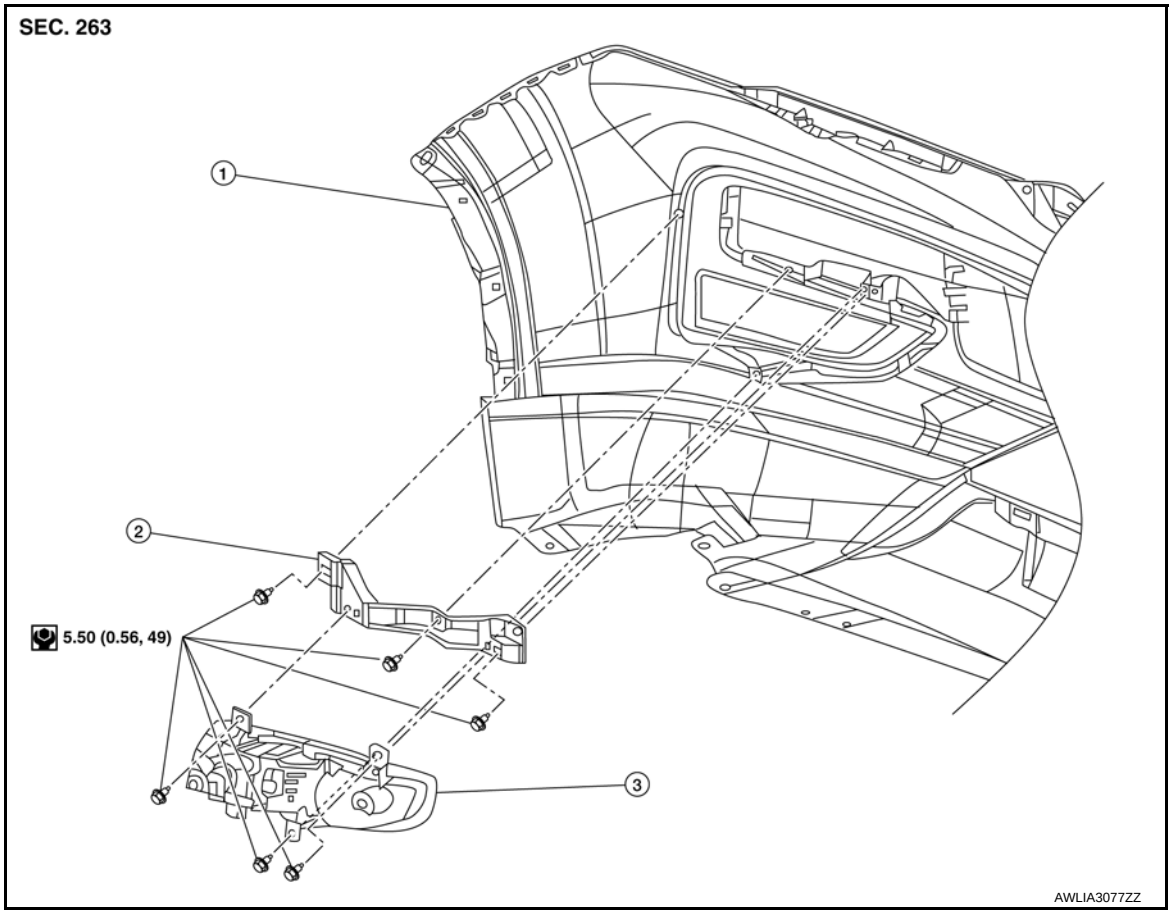
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

FRONT FOG LAMP

Exploded View

INFOID:0000000014623146



1. Front bumper fascia
2. Front fog lamp bracket
3. Front fog lamp assembly

Removal and Installation

INFOID:0000000014623147

REMOVAL

1. Partially remove front fender protector. Refer to EXT-40, "FENDER PROTECTOR : Exploded View".
2. Disconnect the harness connector from the front fog lamp.
3. Remove front fog lamp bolts and front fog lamp.

INSTALLATION

Installation in the reverse order of removal.

NOTE:

After installation, perform front fog lamp aiming adjustment. Refer to EXL-115, "Aiming Adjustment Procedure".

Bulb Replacement

INFOID:0000000014623148

WARNING:

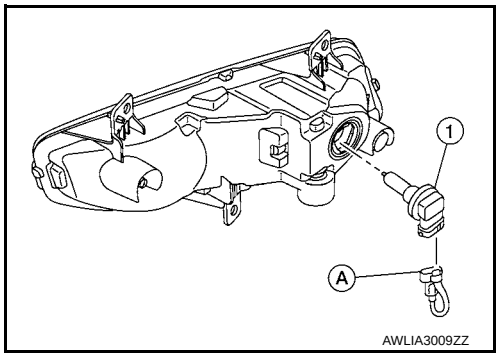
Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.

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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

REMOVAL

1. Partially remove front fender protector. Refer to EXT-40, "FENDER PROTECTOR : Exploded View".
2. Disconnect the harness connector (A) from the front fog lamp.
3. Rotate bulb (1) counterclockwise and remove.



INSTALLATION

Installation is in the reverse order of removal.

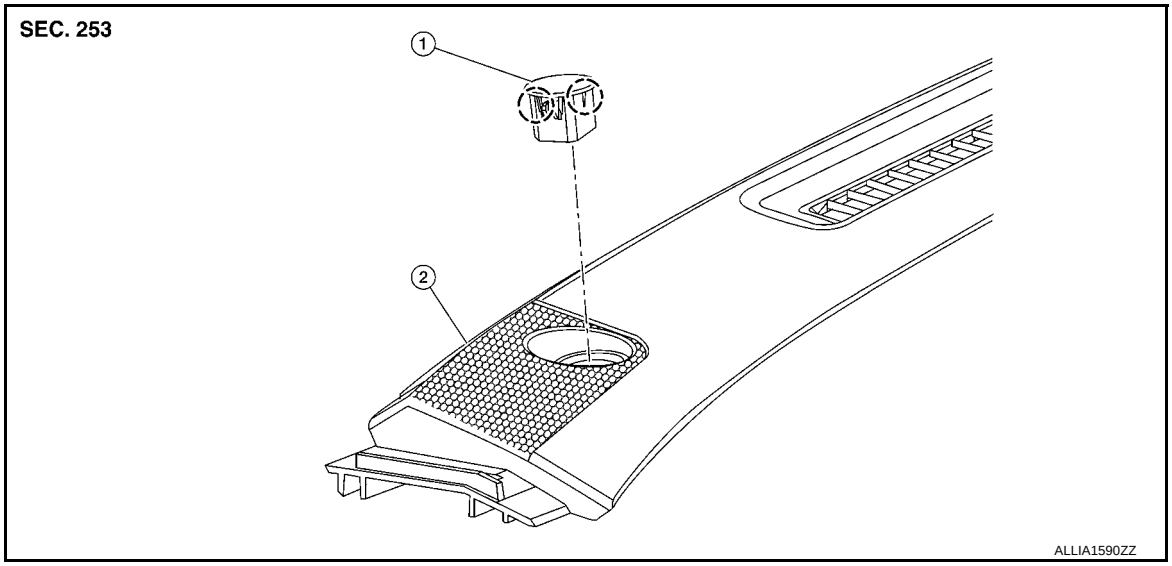
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

OPTICAL SENSOR

Exploded View

INFOID:0000000014623149



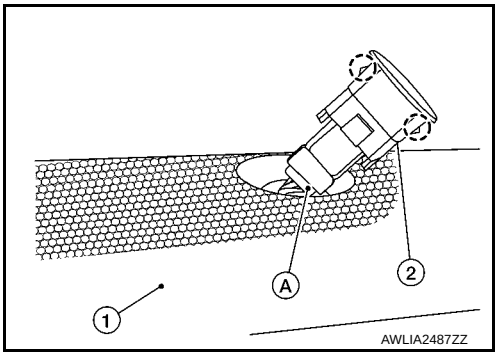
1. Optical sensor
2. Defroster grille
◌ Pawl

Removal and Installation

INFOID:0000000014623150

REMOVAL

1. Release the optical sensor (2) pawls from defroster grille (1) using a suitable tool.
   ◌: Pawl
2. Disconnect the harness connector (A) from the optical sensor (2) and remove.



INSTALLATION

Installation is in the reverse order of removal.

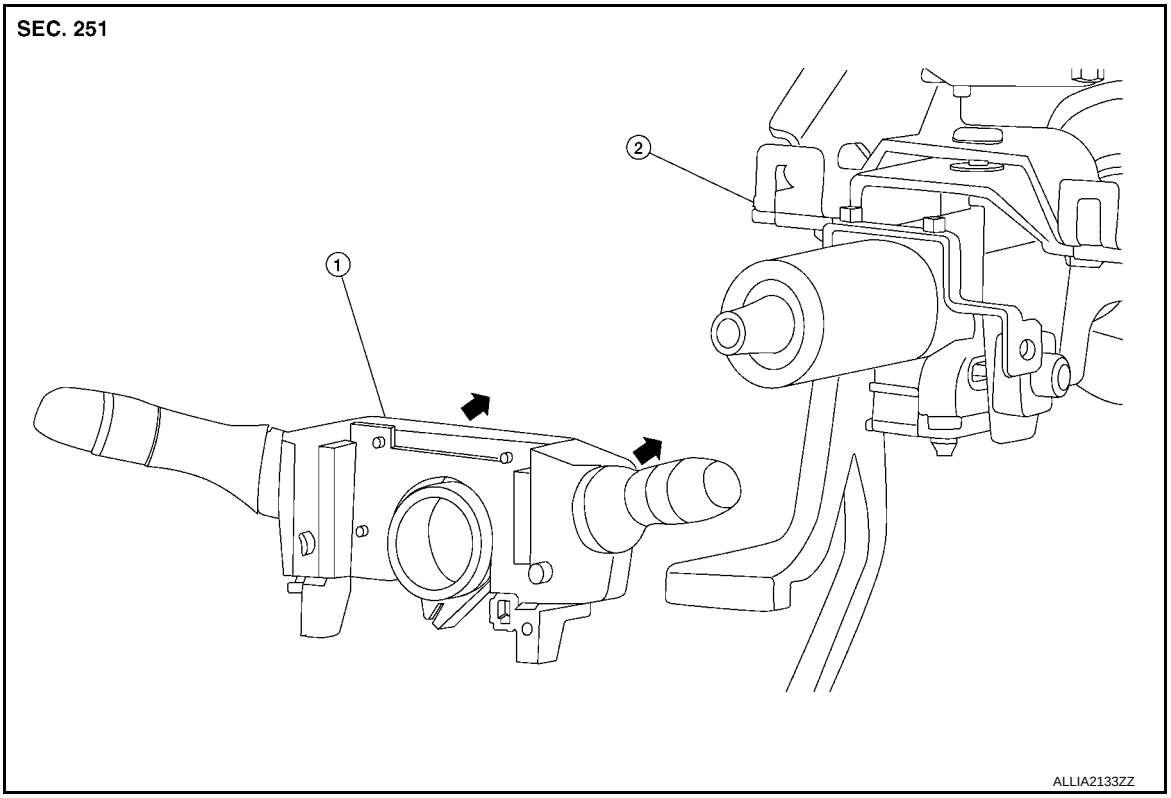
NOTE:

Confirm that optical sensor is locked into defroster grille and that the harness connector is locked into the optical sensor connector body.

COMBINATION SWITCH

Exploded View

INFOID:0000000014623151



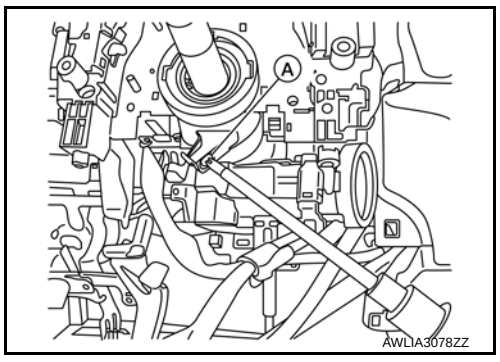
1. Combination switch
2. Steering column

Removal and Installation

INFOID:0000000014623152

REMOVAL

1. Remove the steering angle sensor. Refer to BRC-208, "Removal and Installation".
2. Disconnect harness connector from combination switch.
3. Remove screw (A).



4. Remove combination switch.

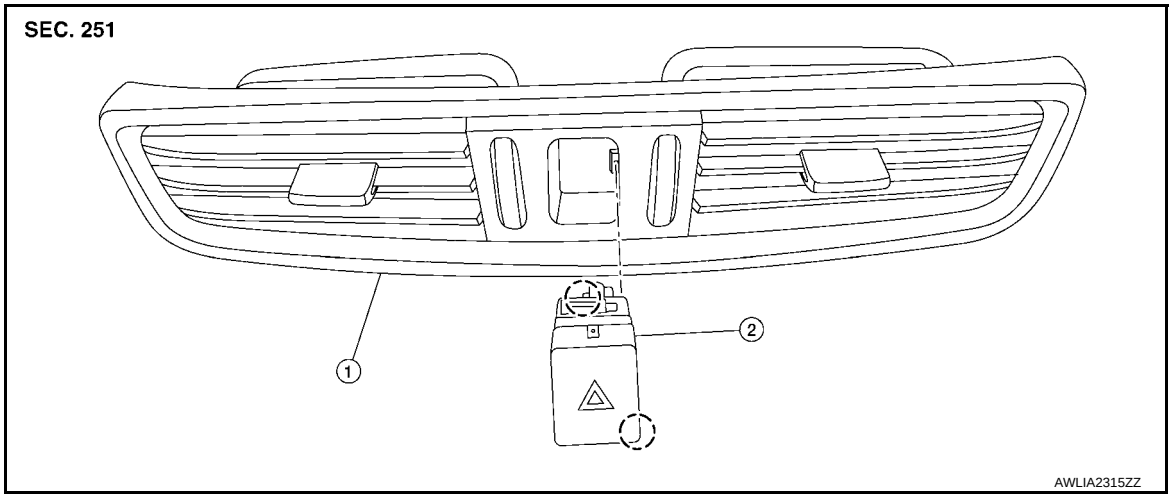
INSTALLATION

Installation is in the reverse order of removal.

HAZARD SWITCH

Exploded View

INFOID:0000000014623153



1. Center ventilator grille
2. Hazard switch
Pawl

Removal and Installation

INFOID:0000000014623154

REMOVAL

1. Remove center ventilator grille. Refer to VTL-13, "CENTER VENTILATOR GRILLE : Removal and Installation".
2. Release the pawls and remove the hazard switch.

INSTALLATION

Installation is in the reverse order of removal.

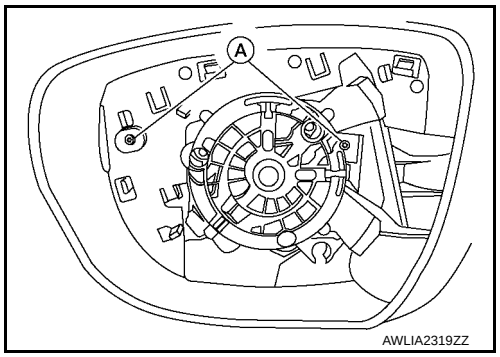
SIDE TURN SIGNAL LAMP

Removal and Installation

INFOID:0000000014623155

REMOVAL

1. Remove door mirror rear finisher. Refer to MIR-27, "Removal and Installation".
2. Remove door mirror glass. Refer to MIR-25, "Removal and Installation".
3. Remove the screws (A) and reposition side turn signal lamp.



4. Disconnect the harness connector from the side turn signal lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

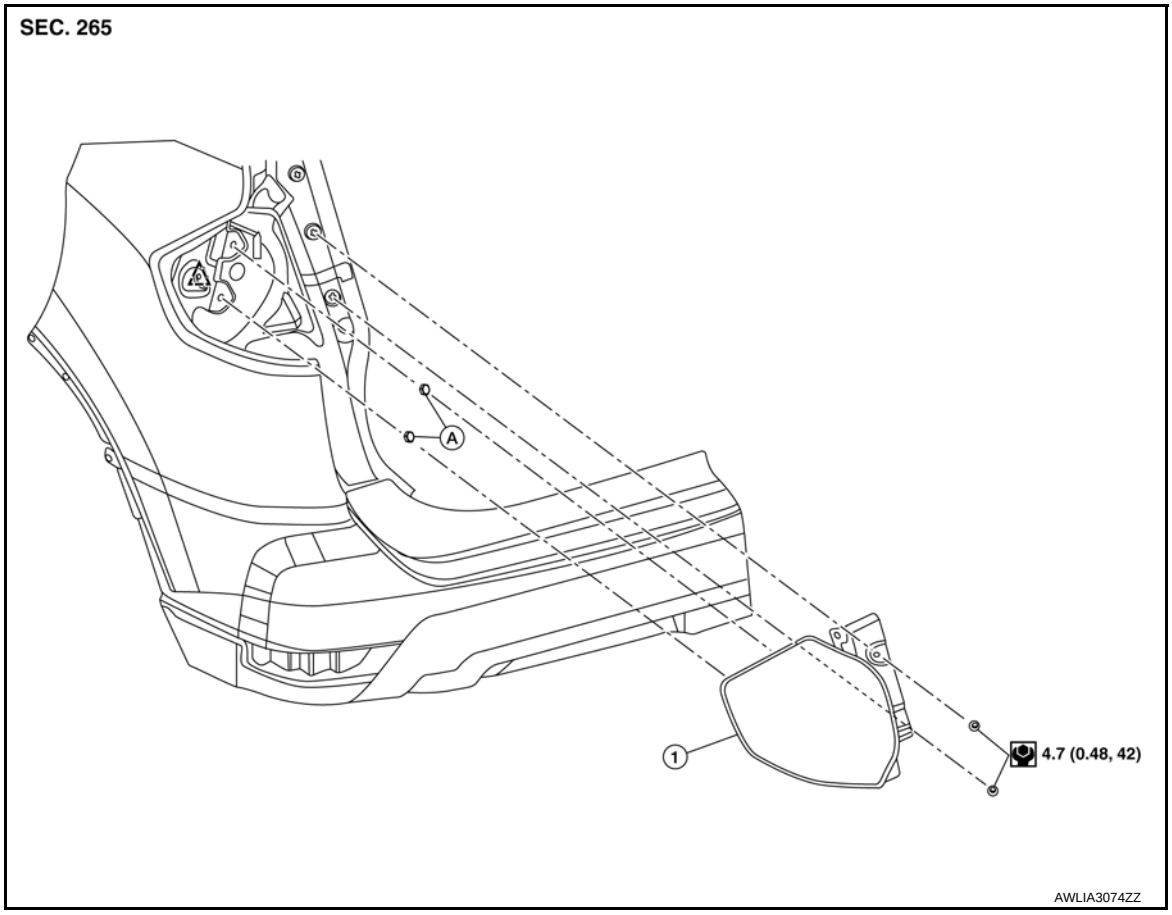
INFOID:0000000014623156

The side turn signal lamp bulb is not serviced separately. Refer to MIR-23, "Removal and Installation".

REAR COMBINATION LAMP

Exploded View

INFOID:0000000014623157



1. Rear combination lamp
A. Grommet
Clip

Removal and Installation

INFOID:0000000014623158

REMOVAL

1. Remove side air spoiler. Refer to EXT-61, "Removal and Installation".
2. Remove rear combination lamp bolts.
3. Pull rear combination lamp rearward to release from clip and locators.
4. Disconnect the harness connector from the rear combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623159

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 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

STOP LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "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.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

TAIL LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "Removal and Installation".
2. Rotate tail lamp bulb socket counterclockwise and remove.
3. Remove tail lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

TURN SIGNAL LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "Removal and Installation".
2. Rotate turn signal lamp bulb socket counterclockwise and remove.
3. Remove turn signal lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

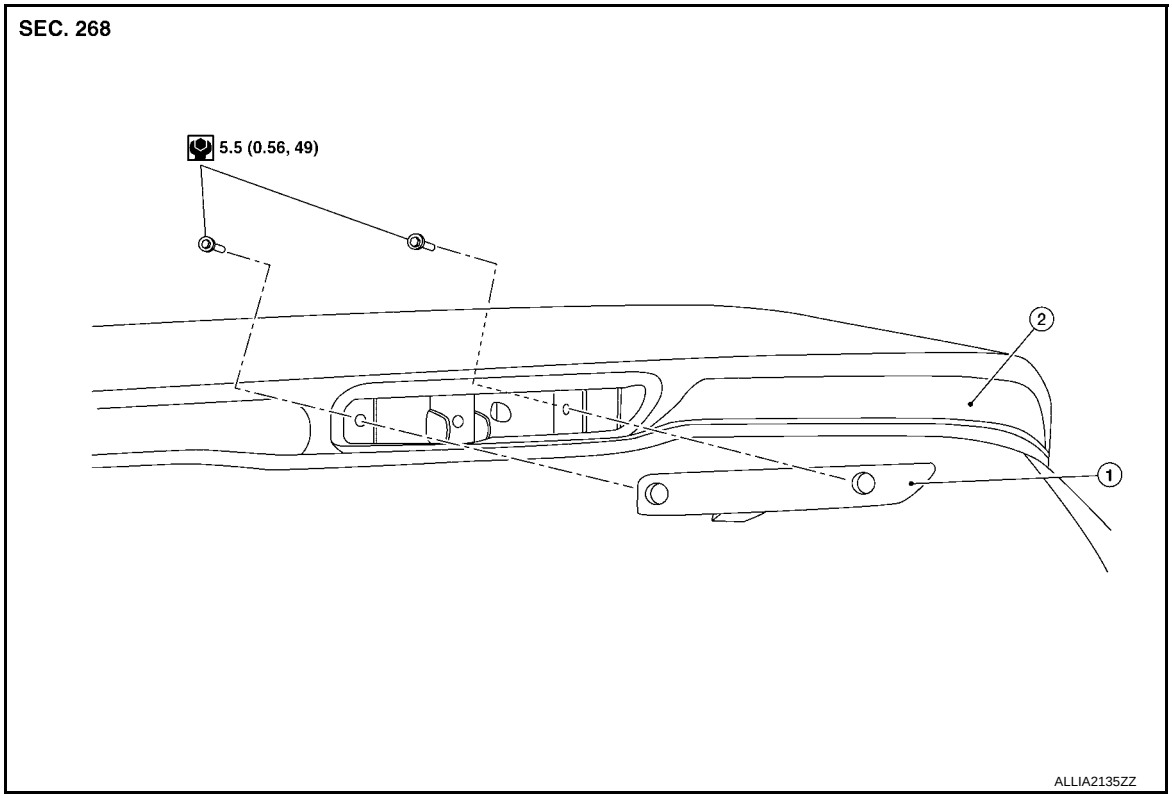
CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

HIGH-MOUNTED STOP LAMP

Exploded View

INFOID:0000000014623160



1. High-mounted stop lamp
2. Back door

Removal and Installation

INFOID:0000000014623161

REMOVAL

1. Remove access cover using a suitable tool. Refer to INT-35, "Exploded View".
2. Remove high-mounted stop lamp nuts.
3. Disconnect the harness connector from high-mounted stop lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623162

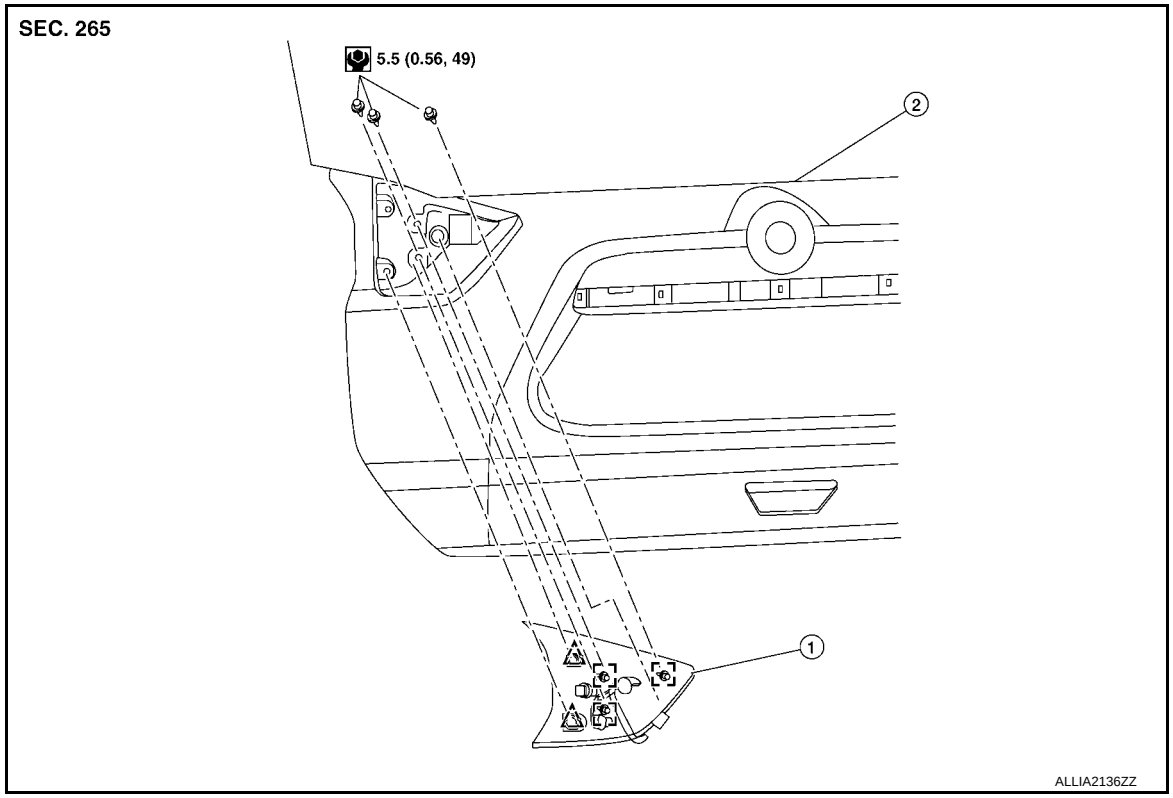
HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is not serviced separately. Refer to EXL-126, "Removal and Installation".

BACK-UP LAMP ASSEMBLY

Exploded View

INFOID:0000000014623163



1. Back-up lamp assembly
2. Back door
Clip
Stud

Removal and Installation

INFOID:0000000014623164

REMOVAL

1. Remove back door finisher. Refer to INT-35, "Removal and Installation".
2. Remove back-up lamp assembly nuts.
3. Pull back-up lamp assembly rearward, disconnect the harness connector and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623165

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 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

TAIL LAMP BULB

Removal

1. Remove back-up lamp assembly. Refer to EXL-127, "Removal and Installation".
2. Rotate tail lamp bulb socket counterclockwise and remove.

3. Remove tail lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

BACK-UP LAMP BULB

Removal

1. Remove back-up lamp assembly. Refer to EXL-127, "Removal and Installation".
2. Rotate back-up lamp bulb socket counterclockwise and remove.
3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

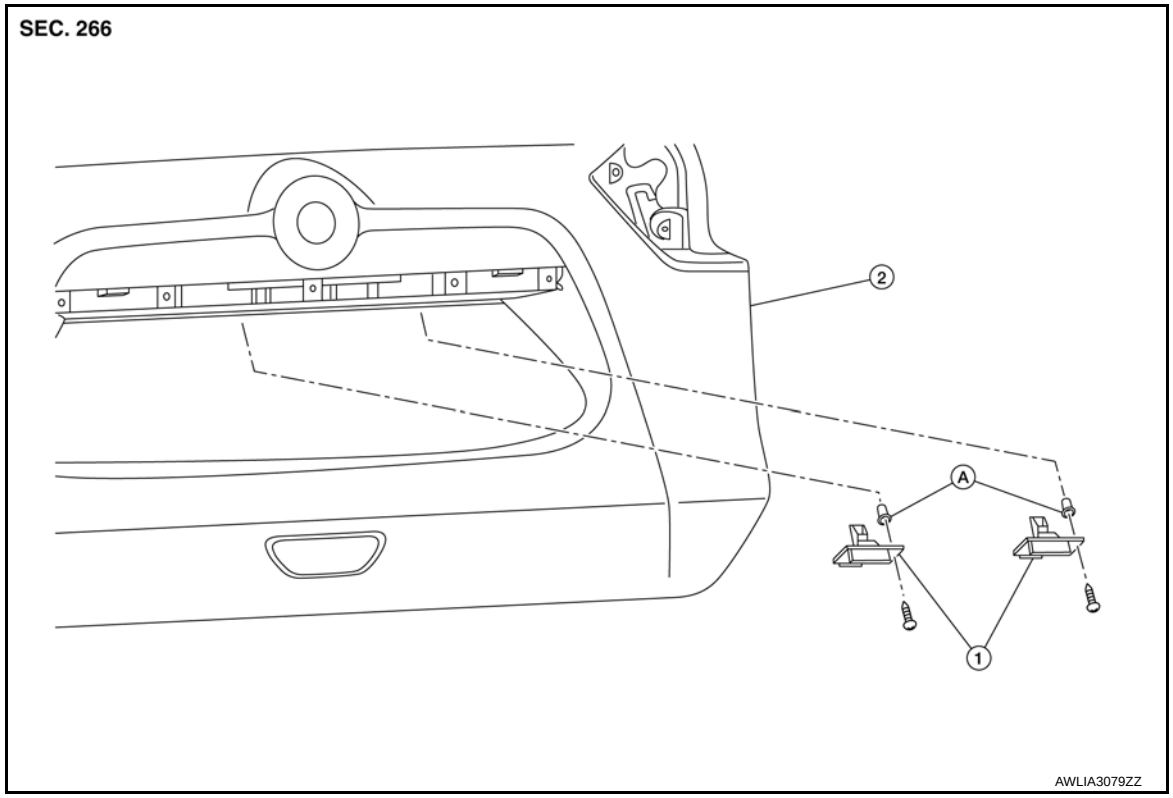
CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

LICENSE PLATE LAMP

Exploded View

INFOID:0000000014623166



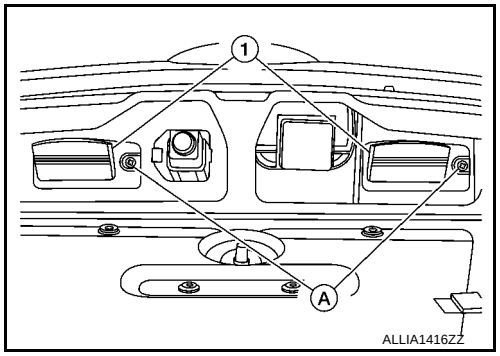
1. License plate lamp
2. Back door
A. Grommet

Removal and Installation

INFOID:0000000014623167

REMOVAL

1. Release the license lamp finisher. Refer to INT-35, "Exploded View".
2. Remove the screw (A) (LH or RH) and pull license plate lamp (1) (LH or RH) downward.



3. Disconnect the harness connector from the license plate lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623168

WARNING:

Do not touch bulb with your hand while it is on 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

REMOVAL

1. Remove license plate lamp. Refer to EXL-129, "Removal and Installation".
2. Rotate license plate lamp bulb socket counterclockwise and remove.
3. Remove license plate lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

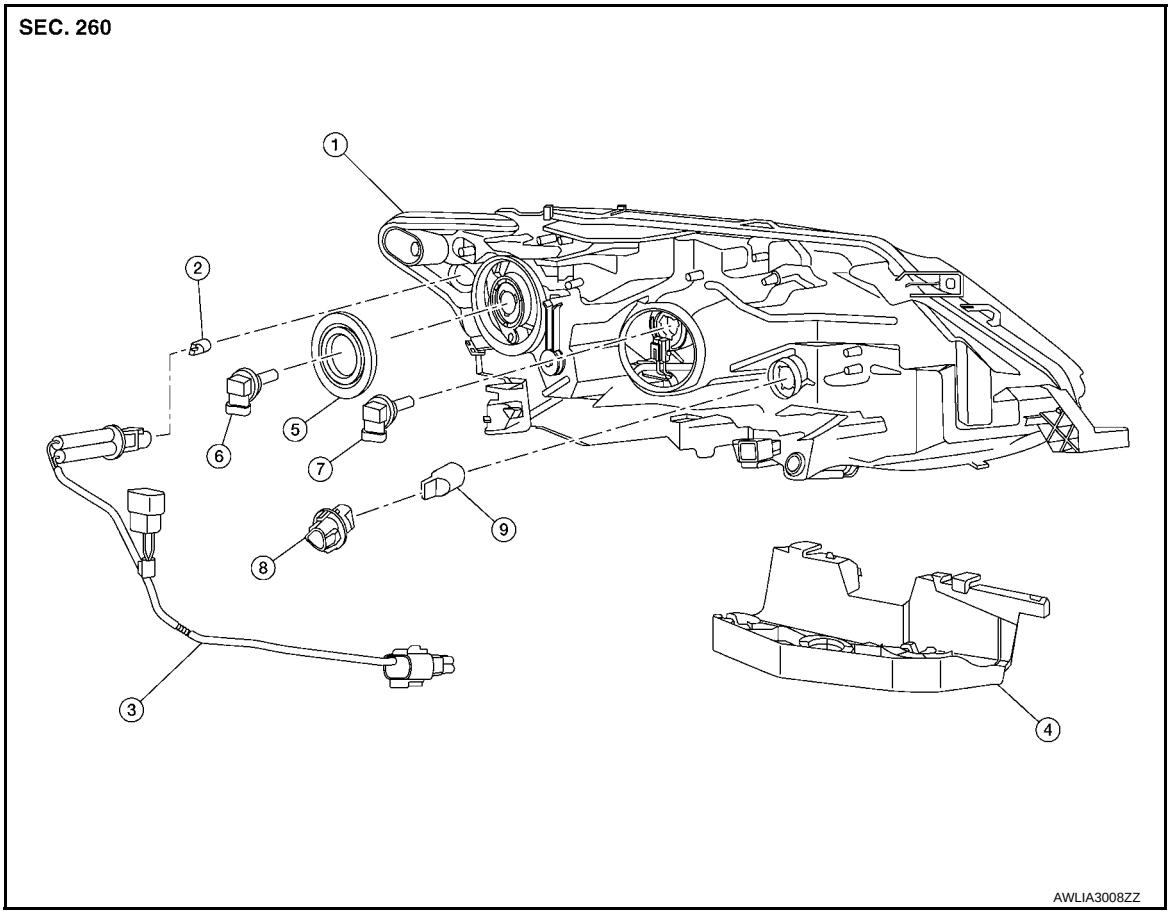
After installing the bulb, install the bulb socket securely for watertightness.

UNIT DISASSEMBLY AND ASSEMBLY

FRONT COMBINATION LAMP

Exploded View

INFOID:0000000014623169



1. Front combination lamp
2. Side marker lamp bulb
3. Front combination lamp harness
4. Front combination lamp mounting bracket
5. Headlamp (low beam) socket cover
6. Headlamp (low beam) bulb
7. Headlamp (high beam) bulb
8. Turn signal lamp bulb socket
9. Turn signal lamp bulb

Disassembly and Assembly

INFOID:0000000014623170

DISASSEMBLY

1. Remove front combination lamp. Refer to EXL-116, "Removal and Installation".
2. Rotate the headlamp (low beam) bulb counterclockwise and remove.
3. Disconnect the harness connector from headlamp (low beam) bulb.
4. Remove plastic cover.
5. Rotate the headlamp (high beam) bulb counterclockwise and remove.
6. Disconnect the harness connector from headlamp (high beam) bulb.
7. Rotate the side marker lamp bulb socket counterclockwise and remove.
8. Remove the side marker lamp bulb from the bulb socket.
9. Rotate the turn signal lamp bulb socket counterclockwise and remove.
10. Remove the turn signal lamp bulb from the bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

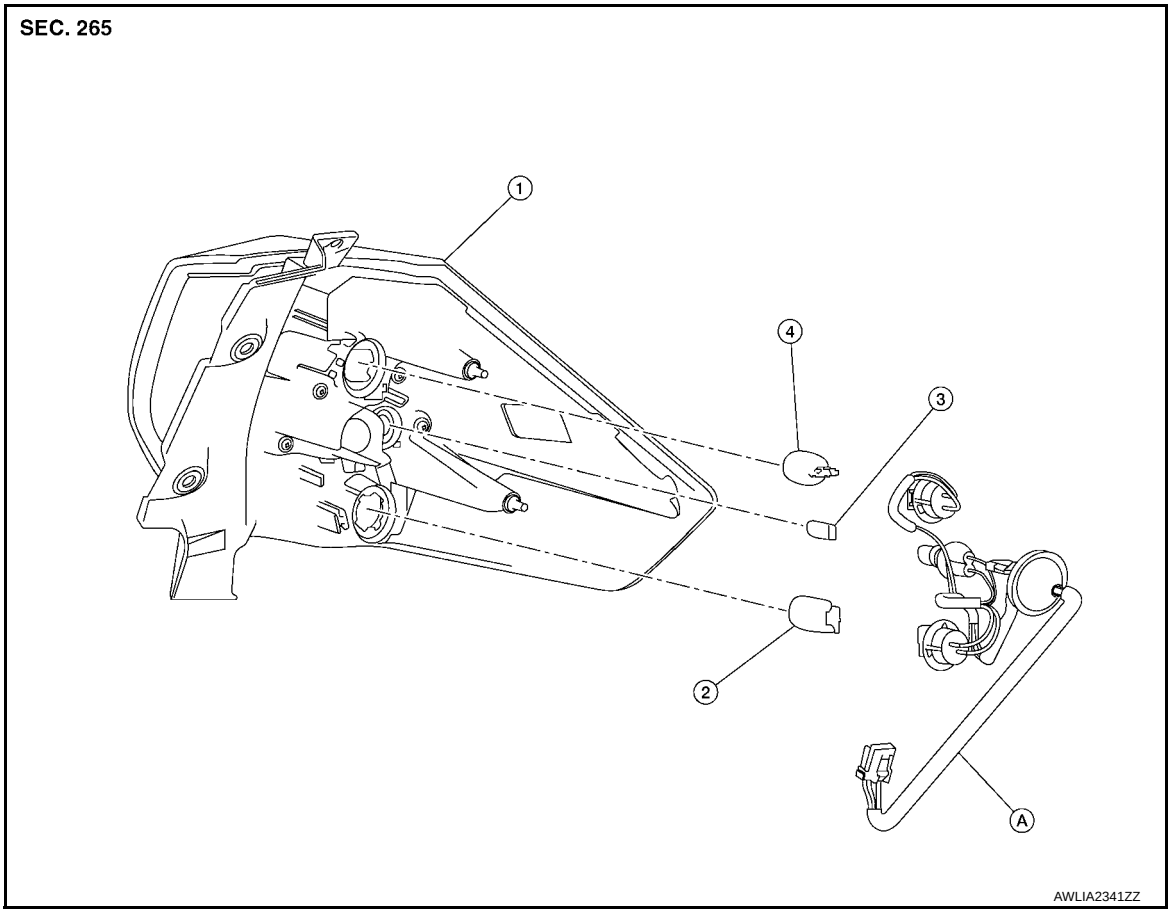
CAUTION:

After installing, be sure to install the bulb sockets securely to ensure watertightness.

REAR COMBINATION LAMP

Exploded View

INFOID:0000000014623171



1. Rear combination lamp
2. Turn signal lamp bulb
3. Tail lamp bulb
4. Stop lamp bulb
A. Rear combination lamp harness

Disassembly and Assembly

INFOID:0000000014623172

DISASSEMBLY

1. Remove rear combination lamp. Refer to EXL-124, "Removal and Installation".
2. Rotate the stop lamp bulb socket counterclockwise and remove.
3. Remove the stop lamp bulb from the bulb socket.
4. Rotate the tail lamp bulb socket counterclockwise and remove.
5. Remove the tail lamp bulb from the bulb socket.
6. Rotate the turn signal lamp bulb socket counterclockwise and remove.
7. Remove the turn signal lamp bulb from bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

CAUTION:

After installing, be sure to install the bulb sockets securely to ensure watertightness.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000014623173

Item		Wattage (W)*
Front combination lamp	High beam	65
	Low beam	55
	Turn signal lamp	28/8
	Side marker lamp	5
	Daytime running lamp	—
Front fog lamp (if equipped)		35
Side turn signal lamp		—
Rear combination lamp	Stop lamp	21
	Tail lamp	5
	Turn signal lamp	21
Back-up lamp	Tail lamp	—
	Back-up lamp	16
License plate lamp		5
High-mounted stop lamp		—

*: 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:0000000015184896

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:0000000014623175

- 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.

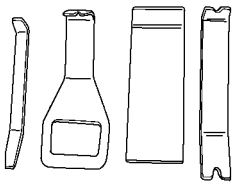
PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000014623176

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

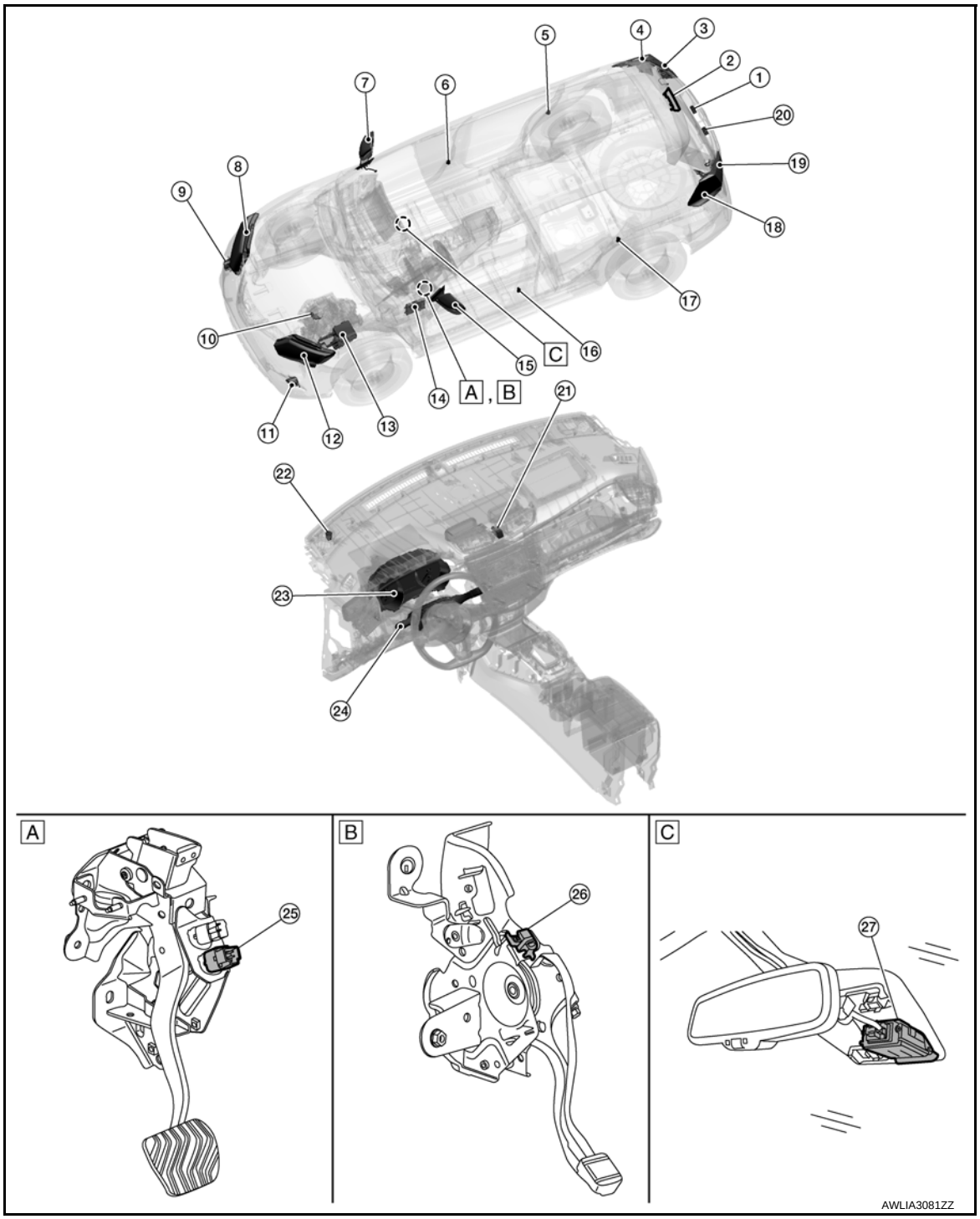
Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000015190639



A. View of brake pedal assembly (shown with pedal assembly removed)

B. View of parking brake pedal assembly (shown with pedal assembly removed)

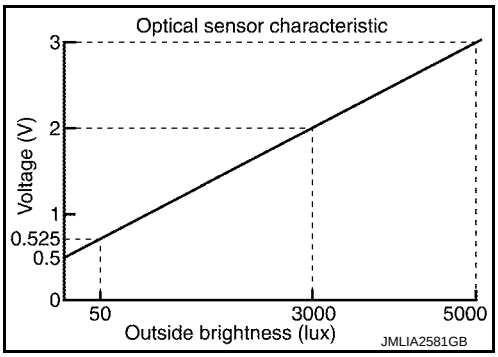
C. Inside mirror area

No.	Part	Function
1.	License plate lamp RH	Refer to EXL-133, "Bulb Specifications".
2.	High mount stop lamp	Refer to EXL-133, "Bulb Specifications".
3.	Stop lamp assembly RH	Refer to EXL-133, "Bulb Specifications".
4.	Rear combination lamp RH	Refer to EXL-133, "Bulb Specifications".
5.	Rear door switch RH	Transmits the door open signal to the BCM to operate the autolight system.
6.	Front door switch RH	
7.	Door mirror RH	Refer to EXL-133, "Bulb Specifications".
8.	Front combination lamp RH	LED headlamp control module is integrated into housing. Refer to EXL-133, "Bulb Specifications".
9.	Front fog lamp RH	Refer to EXL-133, "Bulb Specifications".
10.	Transmission range switch	• Supplies power to illuminate the back-up lamps. • Refer to TM-15, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
11.	Front fog lamp LH	Refer to EXL-133, "Bulb Specifications".
12.	Front combination lamp LH	LED headlamp control module is integrated into housing. Refer to EXL-133, "Bulb Specifications".
13.	IPDM E/R	• Supplies voltage to the load according to the request from BCM (via CAN communication). • Refer to PCS-6, "Component Parts Location" for detailed installation location.
14.	BCM	• Detects each switch condition by the combination switch reading function. • Judges that the exterior lamps are turned ON according to the vehicle condition. • Requests the headlamp (HI/LO), tail lamp and front fog lamp ON to IPDM E/R (via CAN communication). • Requests high beam indicator lamp ON to the combination meter (via CAN communication). • Judges the outside brightness from the optical sensor signal. • Judges the ON/OFF timing according to the vehicle condition. • Judges the ON/OFF status of the exterior lamp according to the outside brightness and the vehicle condition. • Refer to BCS-5, "BODY CONTROL SYSTEM : Component Parts Location".
15.	Door mirror LH	Refer to EXL-133, "Bulb Specifications".
16.	Front door switch LH	Transmits the door open signal to the BCM to operate the autolight system.
17.	Rear door switch LH	
18.	Rear combination lamp LH	Refer to EXL-133, "Bulb Specifications".
19.	Stop lamp assembly LH	Refer to EXL-133, "Bulb Specifications".
20.	License plate lamp LH	Refer to EXL-133, "Bulb Specifications".
21.	Hazard switch	Refer to EXL-11, "Hazard Switch".
22.	Optical sensor	Refer to EXL-11, "Optical Sensor".
23.	Combination meter	Refer to MWI-7, "METER SYSTEM : Combination Meter".
24.	Combination switch (lighting and turn signal switch)	Refer to BCS-9, "COMBINATION SWITCH READING SYSTEM : System Description".
25.	Stop lamp switch	• Transmits power to illuminate the stop lamps. • Refer to BR-57, "Exploded View" for detailed installation location.
26.	Parking brake switch	Transmits the parking brake switch signal to the combination meter to operate the daytime running light system.
27.	Lane camera unit	Refer to DAS-221, "Lane Camera Unit".

Optical Sensor

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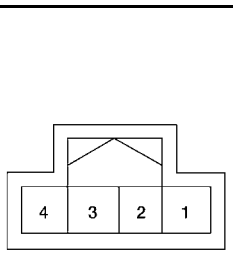
Optical sensor converts the outside brightness (lux) to voltage and transmits the optical sensor signal to BCM.



Hazard Switch

INFOID:0000000014623179

Inputs the hazard switch ON/OFF signal to BCM.



		OFF	ON
2	Hazard switch ON/OFF signal		●
3	Ground		●
4	Illumination +	●	
		●	
1	Illumination -	●	

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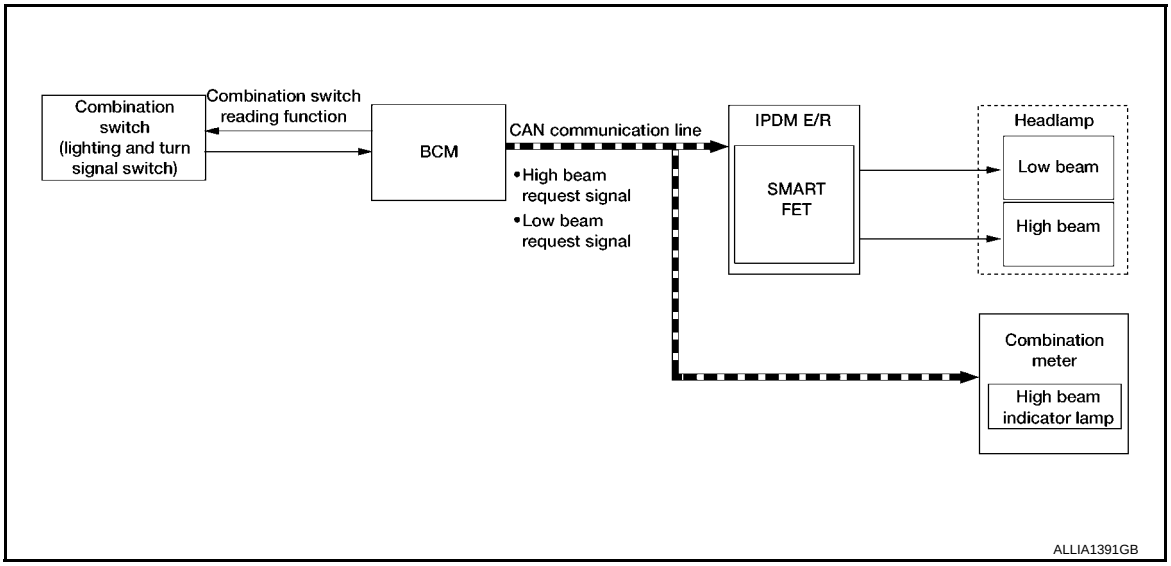
SYSTEM

HEADLAMP SYSTEM

HEADLAMP SYSTEM : System Description

INFOID:0000000014623180

SYSTEM DIAGRAM



OUTLINE

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

HEADLAMP (LO) OPERATION

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

Headlamp (LO) ON condition:
- Lighting switch 2ND
- Lighting switch AUTO (auto light function ON judgment)
- Lighting switch AUTO, with the front fog lamp switch ON and the ignition switch ON
- Lighting switch PASS

HEADLAMP (HI) OPERATION

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

Headlamp (HI) ON condition:
- Lighting switch HI with the lighting switch 2ND or AUTO (auto light function ON judgment)
- Lighting switch PASS
- Lighting switch AUTO, with the front fog lamp switch ON, the ignition switch ON and lighting switch HI

- Combination meter turns the high beam indicator lamp ON according to the high beam request signal.
- IPDM E/R turns the headlamp ON according to the high beam request signal.

HEADLAMP SYSTEM : Fail-Safe

INFOID:0000000014623181

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

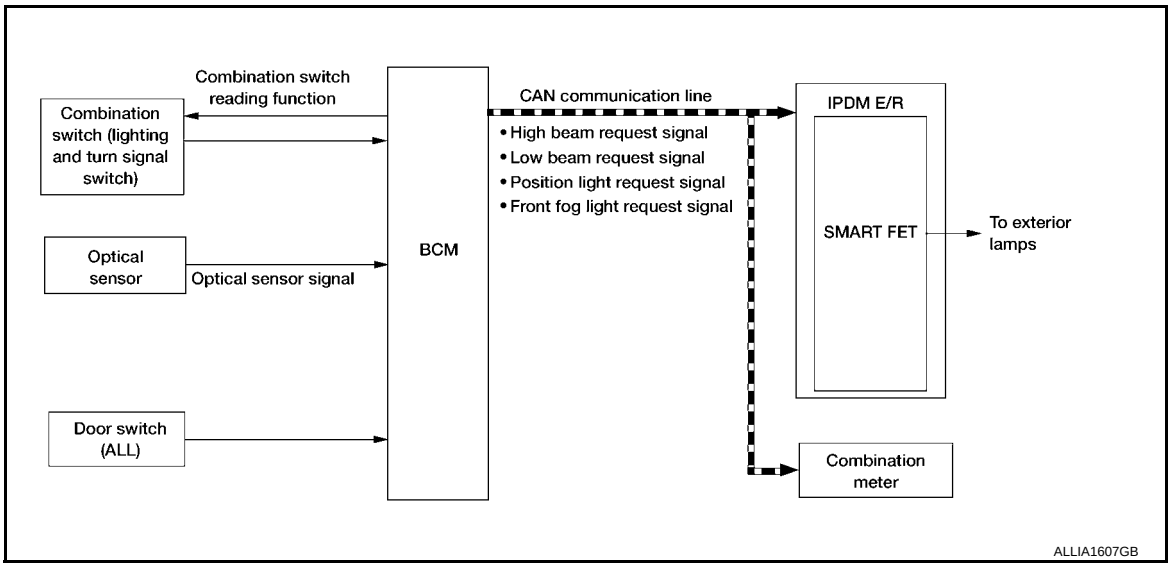
Control part	Fail-safe operation
Headlamp	• Turns ON the headlamp low beam when the ignition switch is turned ON • Turns OFF the headlamp low beam when the ignition switch is turned OFF

AUTO LIGHT SYSTEM

AUTO LIGHT SYSTEM : System Description

INFOID:0000000014623182

SYSTEM DIAGRAM



OUTLINE

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

Controlled by BCM:
- Combination switch reading function
- Headlamp control function
- Auto light function
- Delay timer function
- Auto light adjustment system

Controlled by IPDM E/R:
- Auto light system has the auto light function and delay timer function.
- Auto light function automatically turns ON/OFF the exterior lamps* and each illumination automatically, depending on the outside brightness.
- When auto light system turns the exterior lamps ON with the ignition switch OFF, delay timer function turns the exterior lamps OFF, depending on the vehicle condition with the auto light function after a certain period of time.

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

AUTO LIGHT FUNCTION

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

NOTE:
ON/OFF timing differs based on the sensitivity from the setting. The setting can be set by CONSULT. Refer to BCS-19, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

AUTO LIGHT ADJUSTMENT SYSTEM

The auto light adjustment system automatically dims/brightens the display according to brightness outside the vehicle when lighting switch 1ST, lighting switch 2ND or lighting switch AUTO is operated. Refer to EXL-140, "AUTO LIGHT SYSTEM : System Description".

DELAY TIMER FUNCTION

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

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

*: The preset time is 45 seconds. The timer operating time can be set by CONSULT. Refer to BCS-19, "HEADLAMP : CONSULT Function (BCM - HEADLAMP)".

NOTE:

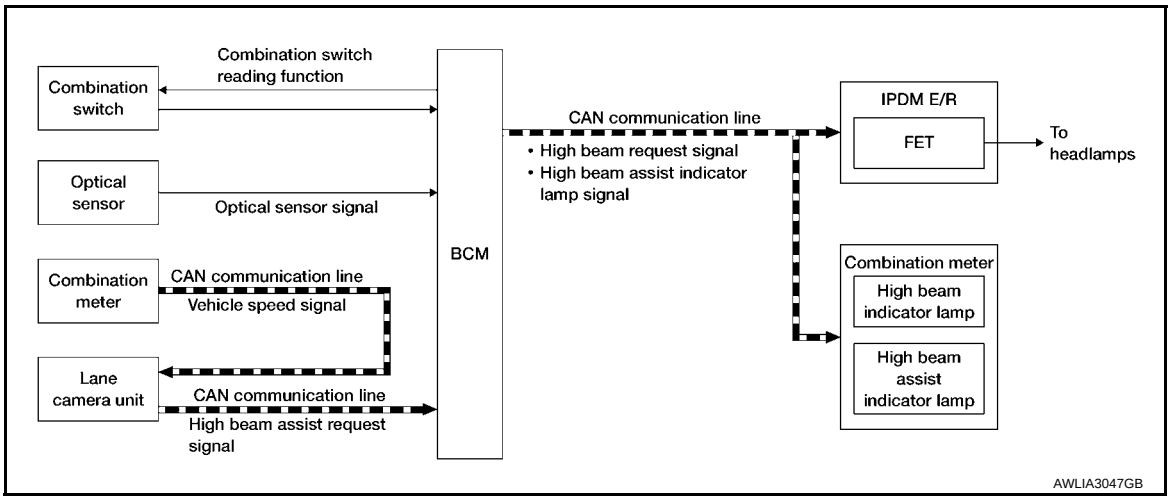
When any position other than the light switch AUTO is set, the auto light system function switches to the exterior lamp battery saver function.

HIGH BEAM ASSIST SYSTEM

HIGH BEAM ASSIST SYSTEM : System Description

INFOID:0000000015240156

SYSTEM DIAGRAM



OUTLINE

- High beam assist system is a system that can reduce the driver's switch operation load. The system automatically switches the headlamp to the low beam mode when a vehicle ahead or an oncoming vehicle appears, while driving the vehicle with the headlamps in high beam mode at night.
- When the high beam assist system operation permission conditions are satisfied, the high beam assist indicator lamp in the combination meter turns ON and informs that the high beam assist is in operation.
- High beam assist system is controlled by each function of BCM, lane camera unit and IPDM E/R.

Control by BCM

- Combination switch reading function
- Auto light function
- High beam assist control function
- Headlamp control function

Control by IPDM E/R

- FET control function

Control by Lane camera unit

- High beam assist control function

OPERATION DESCRIPTION

- BCM detects the combination switch condition with the combination switch reading function.
- BCM transmits the high beam assist indicator lamp signal to the combination meter via chassis CAN communication and CAN communication, when the high beam assist system operation permission conditions are satisfied.

High beam assist system operation permission conditions
- Lighting switch HI with the lighting switch AUTO and ignition switch ON (Only when the illuminating judgment by auto light function is ON. For details, refer to EXL-140, "AUTO LIGHT SYSTEM : System Description".)
- Combination meter turns the high beam assist indicator lamp ON according to the high beam assist indicator lamp signal.
- Lane camera unit detects the vehicle status and ambient status that are required for high beam assist control with the following signals.
- Vehicle speed signal (received from combination meter via chassis CAN communication and CAN communication)
- Ambient light signal (detect from lane camera unit)
- Image sensor signal (detect from lane camera unit)
- Lane camera unit judges the current recommended beam according to the vehicle status and ambient condition, and transmits the high beam assist request signal (headlamp HI operation / headlamp LO operation) to BCM via chassis CAN communication and CAN communication.
- BCM switches the headlamp LO operation / headlamp HI operation according to high beam assist request signal, while the high beam assist system operation permission conditions are satisfied. For headlamp operation, refer to EXL-139, "HEADLAMP SYSTEM : System Description".

RECOMMENDED BEAM JUDGMENT BY LANE CAMERA UNIT

Headlamp HI Operation Request

Lane camera unit requests the headlamp HI operation to BCM when all of following conditions are satisfied.
- Detects the vehicle speed is approx. 30 km/h or more.
- Recognizes the ambient condition is dark.
- Recognizes there is no oncoming vehicle or no vehicle ahead in front of the vehicle.

Headlamp LO Operation Request

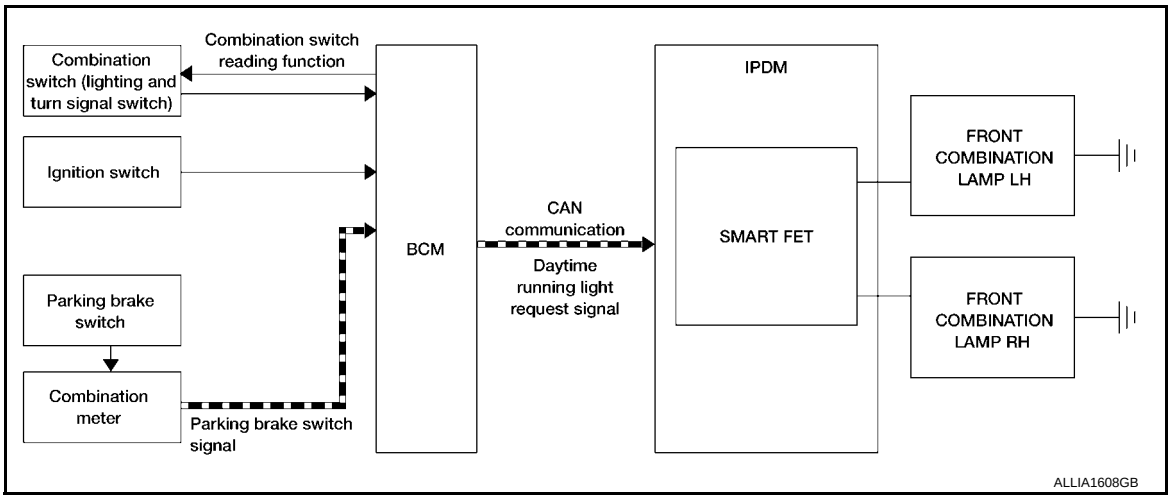
Lane camera unit requests the headlamp LO operation to BCM when either of following conditions is satisfied.
- Detects the vehicle speed is approx. 20 km/h or less.
- Recognizes the ambient condition is bright.
- Recognizes there is oncoming vehicle or vehicle ahead in front of the vehicle.

DAYTIME RUNNING LIGHT SYSTEM

DAYTIME RUNNING LIGHT SYSTEM : System Description

INFOID:0000000014623183

SYSTEM DIAGRAM



OUTLINE

- Daytime running light is controlled by daytime running light control function and combination switch reading function of BCM, and smart FET of IPDM E/R.

DAYTIME RUNNING LIGHT OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM detects the vehicle condition 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

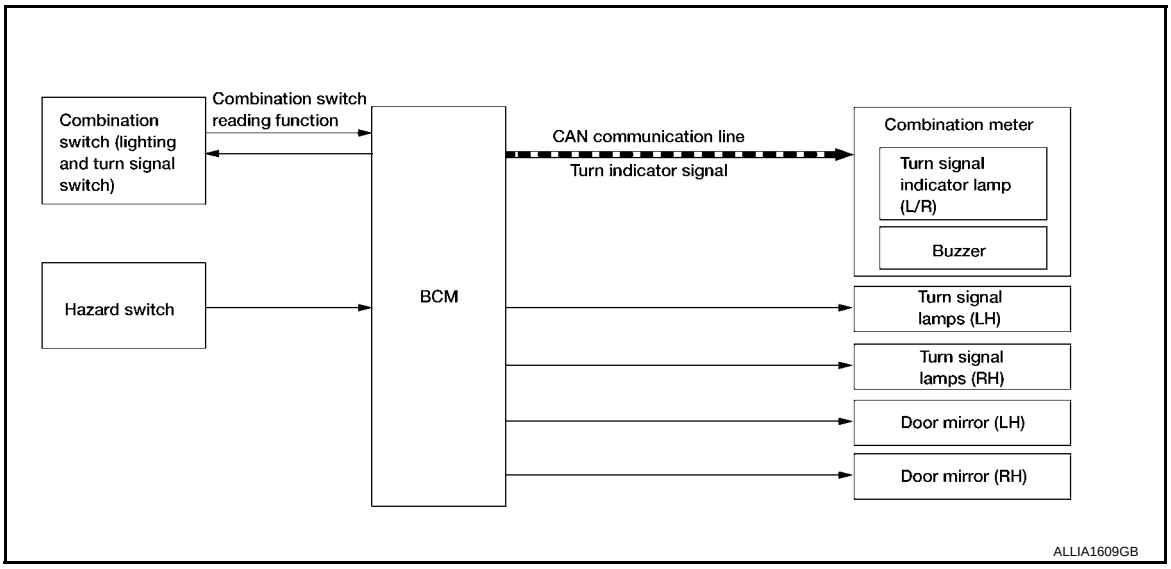
- IPDM E/R controls the daytime running light request signal.
- Power is supplied from the IPDM E/R to the daytime lights.

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description

INFOID:0000000014623186

SYSTEM DIAGRAM



OUTLINE

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

TURN SIGNAL LAMP OPERATION

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

HAZARD WARNING LAMP OPERATION

BCM supplies voltage to both turn signal lamp circuit when the hazard switch is 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.

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.

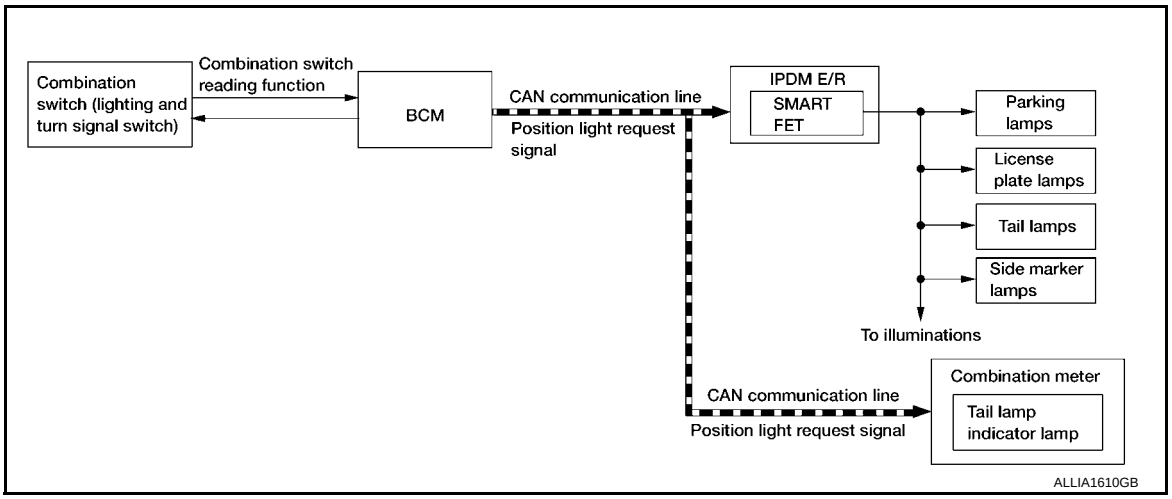
NOTE:
The blinking speed is normal while operating the hazard warning lamp.

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMP SYSTEM

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

INFOID:0000000014623187

SYSTEM DIAGRAM



OUTLINE

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

PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the position light request signal to IPDM E/R 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 lamps 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 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:0000000014623188

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

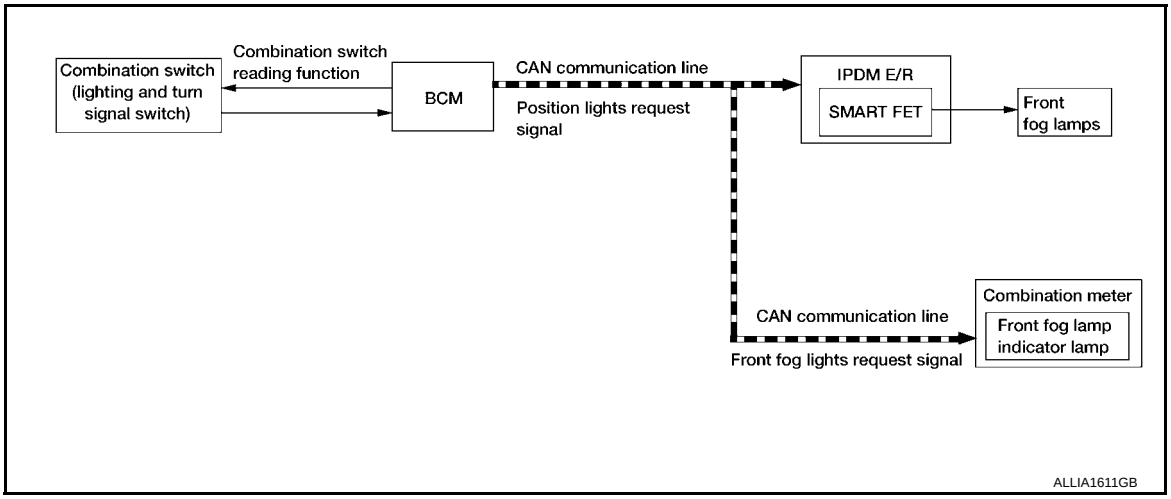
Control part	Fail-safe operation
• Parking lamp • License plate lamp • Illumination • Tail lamp • Side marker lamp	• Turns ON the tail lamp when the ignition switch is turned ON • Turns OFF the tail lamp when the ignition switch is turned OFF

FRONT FOG LAMP SYSTEM

FRONT FOG LAMP SYSTEM : System Description

INFOID:0000000014623189

SYSTEM DIAGRAM



OUTLINE

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

FRONT FOG LAMP OPERATION

- BCM detects the combination switch condition by the combination switch reading function.
- BCM transmits the front fog lights request signal to IPDM E/R 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 front fog lamp 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:0000000014623190

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

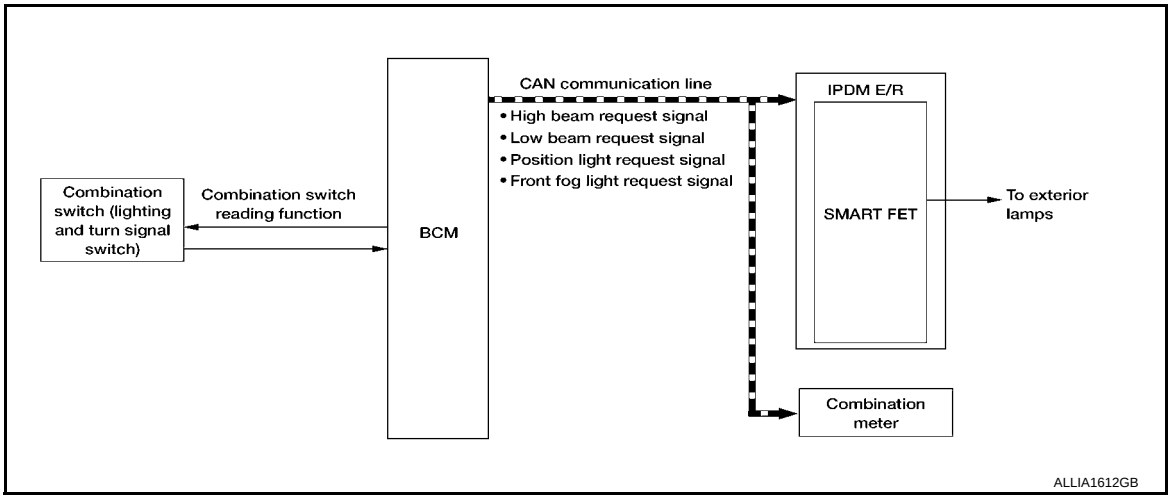
Control part	Fail-safe operation
Front fog lamp	Front fog lamp OFF

EXTERIOR LAMP BATTERY SAVER SYSTEM

EXTERIOR LAMP BATTERY SAVER SYSTEM : System Description

INFOID:0000000014623191

SYSTEM DIAGRAM



OUTLINE

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

Controlled by BCM:
- Combination switch reading function
- Headlamp control function
- Exterior lamp battery saver function

Controlled by IPDM E/R:
- BCM turns the exterior lamps* OFF after a period of time to prevent the battery from over-discharge when the ignition switch is turned OFF with the exterior lamps ON.

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

EXTERIOR LAMP BATTERY SAVER ACTIVATION

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

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

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000015190654

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. • 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			×	×			
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			

HEADLAMP

HEADLAMP : CONSULT Function (BCM - HEADLAMP)

INFOID:0000000015190655

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 [On/Off]	
LIGHT OFF SW [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.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
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].
STOP LAMP 1	This test is able to check rear combination lamp stop lamp operation [On/Off].
STOP LAMP 3	This test is able to check high-mounted stop lamp operation [On/Off].
DAYTIME RUNNING LIGHT	This test is able to check daytime running light operation [On/Off].
ILL DIM SIGNAL	This test is able to check illumination dimmer signal [On/Off].

WORK SUPPORT

Support Item	Setting	Description
TWILIGHT ON	MODE2*	Autolamp function ON.
	MODE1	Autolamp 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	Autolamp delay timer.
	MODE 7	
	MODE 6	
	MODE 4	
	MODE 5	
	MODE 3	
	MODE 2	
	MODE 1*	
WIPER LINK	MODE1	Without wiper linked auto light function
	MODE2	With wiper LO and HI
	MODE3*	With wiper INT, LO and HI
	MODE4	**NOTE:** This item cannot be used

*: Initial setting

FLASHER

FLASHER : CONSULT Function (BCM - FLASHER)

INFOID:0000000015190656

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.

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:0000000015190657

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]	
INT VOLUME [1 - 7]	Indicates condition of intermittent wiper operation of combination switch.
RR WIPER ON [On/Off]	Indicates condition of rear wiper operation of combination switch.
RR WIPER INT [On/Off]	
RR WASHER SW [On/Off]	
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 Hi beam switch operation of combination switch.
HEAD LAMP SW [On/Off]	Indicates condition of head lamp switch operation of combination switch.
LIGHT OFF SW [On/Off]	Indicates condition of no light switch 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:0000000015190658

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 push-button ignition switch.
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.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
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)

CONSULT Function (IPDM E/R)

INFOID:0000000015190653

APPLICATION ITEM

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

Direct Diagnostic Mode	Description
ECU Identification	The IPDM E/R part number is displayed.
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.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing IPDM E/R.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

The IPDM E/R part number is displayed.

SELF DIAGNOSTIC RESULT

Refer to PCS-28, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
REVERSE SIGNAL [Open/Close]	Indicates condition of transmission range switch R (Reverse) position.
IGN RELAY [Open/Close]	Indicates condition of ignition relay-1.
PUSH SW [Open/Close]	Indicates condition of push-button ignition switch.
INTERLOCK/PNP SW [Open/Close]	Indicates condition of transmission range switch P (Park) and N (Neutral) positions.
OIL PRESSURE SW [Open/Close]	Indicates condition of oil pressure switch.
LED H/L RH STATUS [Open/Close]	Indicates condition of LED headlamp RH ON/OFF status judged by IPDM E/R.
LED H/L LH STATUS [Open/Close]	Indicates condition of LED headlamp LH ON/OFF status judged by IPDM E/R.
HOOD SW [Open/Close]	Indicates condition of hood switch.
HORN RELAY [OFF/ ON]	Indicates condition of horn relay.
FRONT WIPER HI/LO RELAY [OFF/ON]	Indicates condition of front wiper high relay.
FRONT WIPER RELAY [OFF/ON]	Indicates condition of front wiper relay.
IGN RELAY OFF STATUS [OFF/ON]	Indicates condition of ignition relay-1 OFF status.
IGN RELAY ON STATUS [OFF/ON]	Indicates condition of ignition relay-1 ON status.
STARTER RELAY [OFF/ON]	Indicates condition of starter relay.
FR FOG LAMP LH [%]	Indicates condition of front fog lamp LH.
FR FOG LAMP RH [%]	Indicates condition of front fog lamp RH.
PARKING LAMP [%]	Indicates condition of parking lamp.
TAIL LAMP LH [%]	Indicates condition of tail lamp LH.
TAIL LAMP RH [%]	Indicates condition of tail lamp RH.
DAYTIME RUNNING LIGHT LH [%]	Indicates condition of daytime running light LH.
DAYTIME RUNNING LIGHT RH [%]	Indicates condition of daytime running light RH.
HEADLAMP (HI) LH [%]	Indicates condition of headlamp high beam LH.

Monitor Item [Unit]	Description
HEADLAMP (HI) RH [%]	Indicates condition of headlamp high beam RH.
HEADLAMP (LO) LH [%]	Indicates condition of headlamp low beam LH.
HEADLAMP (LO) RH [%]	Indicates condition of headlamp low beam RH.
FRONT FOG LAMP [Off/On]	Indicates condition of front fog lamps.
BATTERY VOLTAGE [V]	Indicates condition of battery voltage.
COOLING FAN DUTY [%]	Indicates condition of cooling fans.
HOOD SW (CAN) [OPEN/CLOSE]	Indicates condition of hood switch.
FRONT WIPER [STOP/LOW/HIGH]	Indicates condition of front wiper motor.
FR WIPER STOP POSITION [STOP P/ACTIVE P]	Indicates condition of front wiper motor stop.
HEADLAMP (HI) [Off/On]	Indicates condition of headlamp high beams.
HEADLAMP (LO) [Off/On]	Indicates condition of headlamp low beams.
IGNITION RELAY STATUS [Off/On]	Indicates condition of ignition relay-1.
IGN RELAY MONITOR [Off/On]	Indicates condition of ignition relay-1 feedback.
IGNITION POWER SUPPLY [Off/On]	Indicates condition of ignition relay-1.
INTERLOCK/PNP SW (CAN) [Off/On]	Indicates condition of transmission range switch P (Park) and N (Neutral) positions.
PUSH-BUTTON IGN SW (CAN) [Off/On]	Indicates condition of push-button ignition switch.
TAIL LAMP [Off/On]	Indicates condition of tail lamps.
REVERSE SIGNAL (CAN) [Off/On]	Indicates condition of transmission range switch R (Reverse) position.
ST&ST CONT RELAY STATUS [Off/ST R On]	Indicates condition of starter cut and starter relays.
STARTER MOTOR STATUS [Off/On]	Indicates condition of starter motor.
STARTER RELAY (CAN) [LOW/HIGH]	Indicates condition of starter relay.
IPDM NOT SLEEP [NO RDY/RDY]	Indicates condition of IPDM E/R sleep status.
DTRL REQ [Off/On]	Indicates condition of daytime running light request.
CRANKING ENABLE-TCM [NG/OK]	Indicates condition of crank enable from TCM.
CRANKING ENABLE-ECM [NG/OK]	Indicates condition of crank enable from ECM.
CAN DIAGNOSIS [NG/OK]	Indicates condition of CAN diagnosis.
FRONT FOG LAMP REQ [Off/On]	Indicates condition of front fog lamp request.
HIGH BEAM REQ [Off/On]	Indicates condition of headlamp high beam request.
HORN CHIRP [Off/On]	Indicates condition of horn relay request.
COOLING FAN REQ [%]	Indicates condition of cooling fan request.
ENGINE STATUS [STOP/RUN/IDLING]	Indicates condition of engine status.
TURN SIGNAL REQ [Off/LH/RH]	Indicates condition of turn signal request.
FR WIPER REQ [RETURN/LOW/HIGH]	Indicates condition of front wiper motor request.
SHIFT POSITION [P/R/N/D/L]	Indicates condition of transmission range switch positions.
LOW BEAM REQ [Off/On]	Indicates condition of headlamp low beam request.
POSITION LIGHT REQ [Off/On]	Indicates condition of parking lamp request.
IGNITION SW [Off/On]	Indicates condition of ignition switch.
VEHICLE SPEED (METER) [mph/km/h]	Indicates vehicle speed.
STARTER OPERATION COUNT [Numerical]	Displays number of times starter motor is energized.
H/P F/PUMP OPERATN COUNT [Numerical]	Displays number of times high pressure fuel pump is energized.
P LAMP CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for the parking lamp circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB P LAMP CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of parking lamp circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB P LAMP CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of parking lamp circuit.
DTRL LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for daytime running light (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB DTRL LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of daytime running light (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB DTRL LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of daytime running light (left) circuit.
DTRL RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for daytime running light (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB DTRL RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of daytime running light (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB DTRL RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of daytime running light (right) circuit.
F FOG LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for front fog lamp (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB F FOG LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of front fog lamp (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB F FOG LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of front fog lamp (left) circuit.
F FOG RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for front fog lamp (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB F FOG RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of front fog lamp (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB F FOG RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of front fog lamp (right) circuit.
HL (HI) LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (HI) (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB HL (HI) LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (HI) (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (HI) LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (HI) (left) circuit.
HL (HI) RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (HI) (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (HI) RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (HI) (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (HI) RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (HI) (right) circuit.
HL (LO) LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (LO) (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (LO) LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (LO) (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (LO) LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (LO) (left) circuit.
HL (LO) RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for headlamp (LO) (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB HL (LO) RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of headlamp (LO) (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB HL (LO) RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of headlamp (LO) (right) circuit.
T LAMP LH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for tail lamp (left) circuit. **NOTE:** When number of retry counts is 20, count is 1.
NMB T LAMP LH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of tail lamp (left) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB T LAMP LH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of tail lamp (left) circuit.
T LAMP RH CIRC MALFUNCTN [0 – 1]	Monitors number of times smart FET reaches retry upper limit for tail lamp (right) circuit. **NOTE:** When number of retry counts is 20, count is 1.

Monitor Item [Unit]	Description
NMB T LAMP RH CIRC RETRY [0 – 20]	Monitors number of times smart FET permits retry of tail lamp (right) circuit. **NOTE:** When number of short circuit counts is 5 and the ignition switch OFF to ON operation is detected, count is 1.
NMB T LAMP RH CIRC SHORT [0 – 5]	Monitors number of times smart FET detects over current of tail lamp (right) circuit.

ACTIVE TEST

Test item	Description
HORN	This test is able to check horn operation [Off/On].
FRONT WIPER	This test is able to check wiper motor operation [Off/Low/High].
COMPRESSOR	This test is able to check A/C compressor operation [Off/On].
COOLING FAN (DUAL)	This test is able to check cooling fan operation [Off/LO/HI].
HEADLAMP (HI)	This test is able to check headlamp high beam operation [Off/On].
HEADLAMP (LO)	This test is able to check headlamp low beam operation [Off/On].
FRONT FOG LAMP	This test is able to check front fog lamp operation [Off/On].
DAYTIME RUNNING LAMP	This test is able to check daytime running lamp operation [Off/On].
PARKING LAMP	This test is able to check parking lamp operation [Off/On].
TAIL LAMP	This test is able to check tail lamp operation [Off/On].

CONFIGURATION

Refer to PCS-36, "Description".

CAN DIAG SUPPORT MNTR

Refer to LAN-23, "CAN Diagnostic Support Monitor".

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000014623199

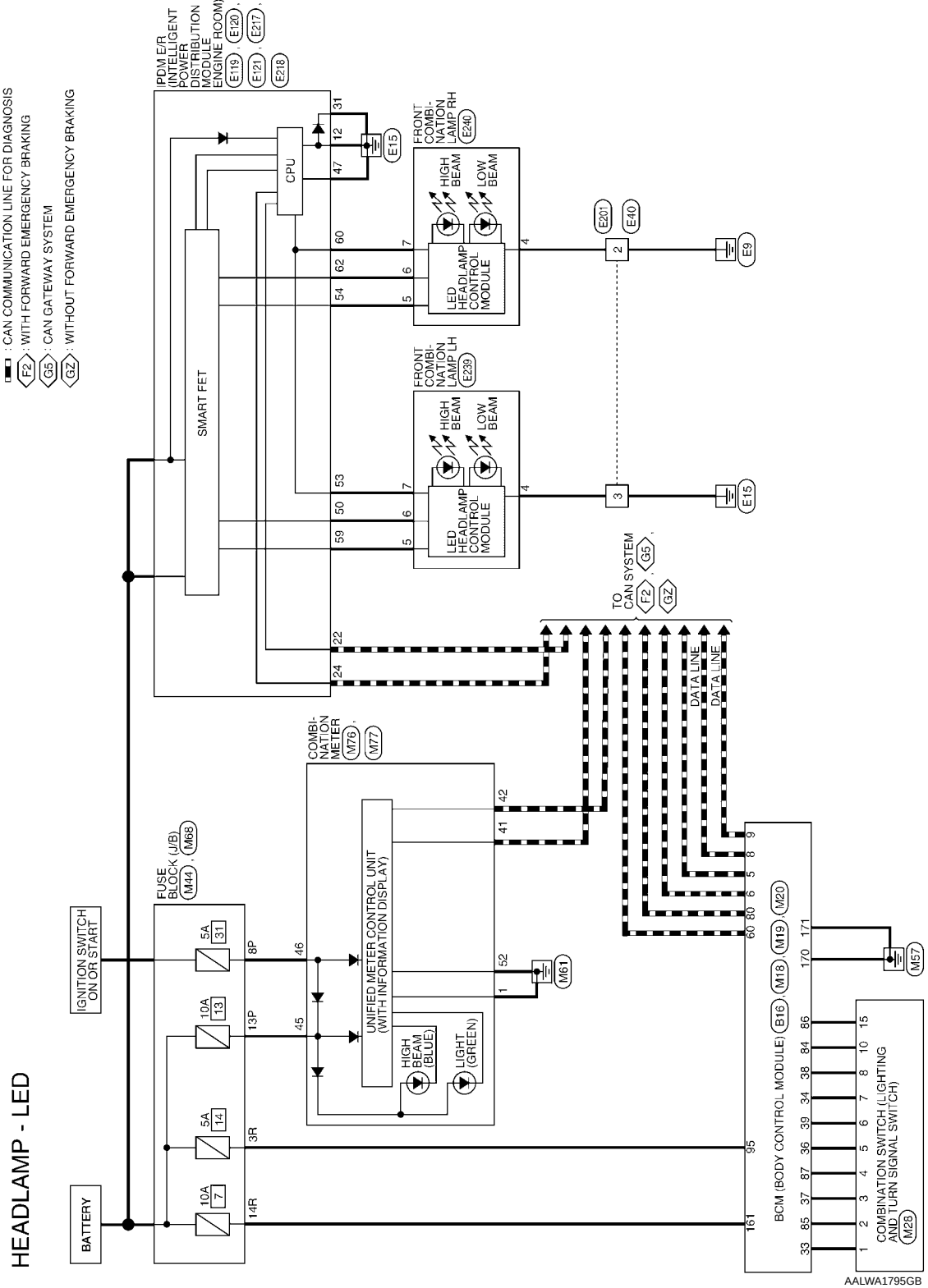
ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-46, "Fail-safe"
	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"
IPDM E/R	PCS-17, "Reference Value".
	PCS-26, "Fail-safe"
	PCS-28, "DTC Index"

WIRING DIAGRAM

HEADLAMP

Wiring Diagram

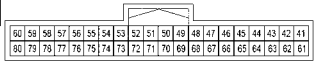
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HEADLAMP CONNECTORS - LED

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY
78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	E40
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC
Connector Color	WHITE

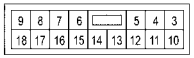
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	GR	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

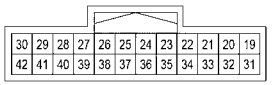
H.S.



Terminal No.	Color of Wire	Signal Name
3	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	–	–

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

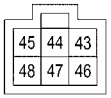
H.S.



Terminal No.	Color of Wire	Signal Name
19	LG	IGN ECM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	243405408R
Connector Color	RED

H.S.



Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	BAT ABS VALVE
45	V	FR WIPER HI
46	W	FUEL PUMP
47	B	POWER GROUND
48	Y	FR WIPER LO

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

AALIA6072GB

HEADLAMP CONNECTORS - LED

Connector No.	E217
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	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

59 58 57
64 63 62 61 60

Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

4 5 6 7
8 9 10 11

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	G	O LIGHT HBEAM LH
6	L	O LIGHT LBEAM LH
7	GR	LI LED DETECTION 2
8	R	O LIGHT DTRL LH
9	BG	O LIGHT CLEARANCE FR LH
10	P	O LIGHT CLEARANCE FR LH
11	B	GROUND

Connector No.	E240
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

4 5 6 7
8 9 10 11

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	LG	O LIGHT HBEAM RH
6	SB	O LIGHT LBEAM RH
7	Y	LI LED DETECTION 1
8	R	O LIGHT DTRL RH
9	GR	O LIGHT CLEARANCE FR RH
10	W	O LIGHT CLEARANCE FR RH
11	B	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

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	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4

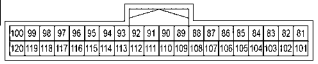
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6073GB

HEADLAMP CONNECTORS - LED

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

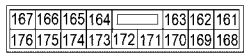
H.S.



Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

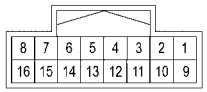
H.S.



Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

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

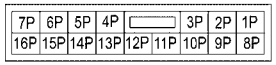
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

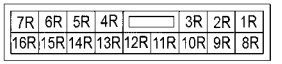
H.S.



Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



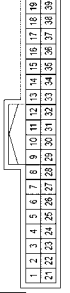
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6074GB

HEADLAMP CONNECTORS - LED

Connector No.	M76
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

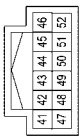


Terminal No.	Color of Wire	Signal Name
1	B	GND
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.



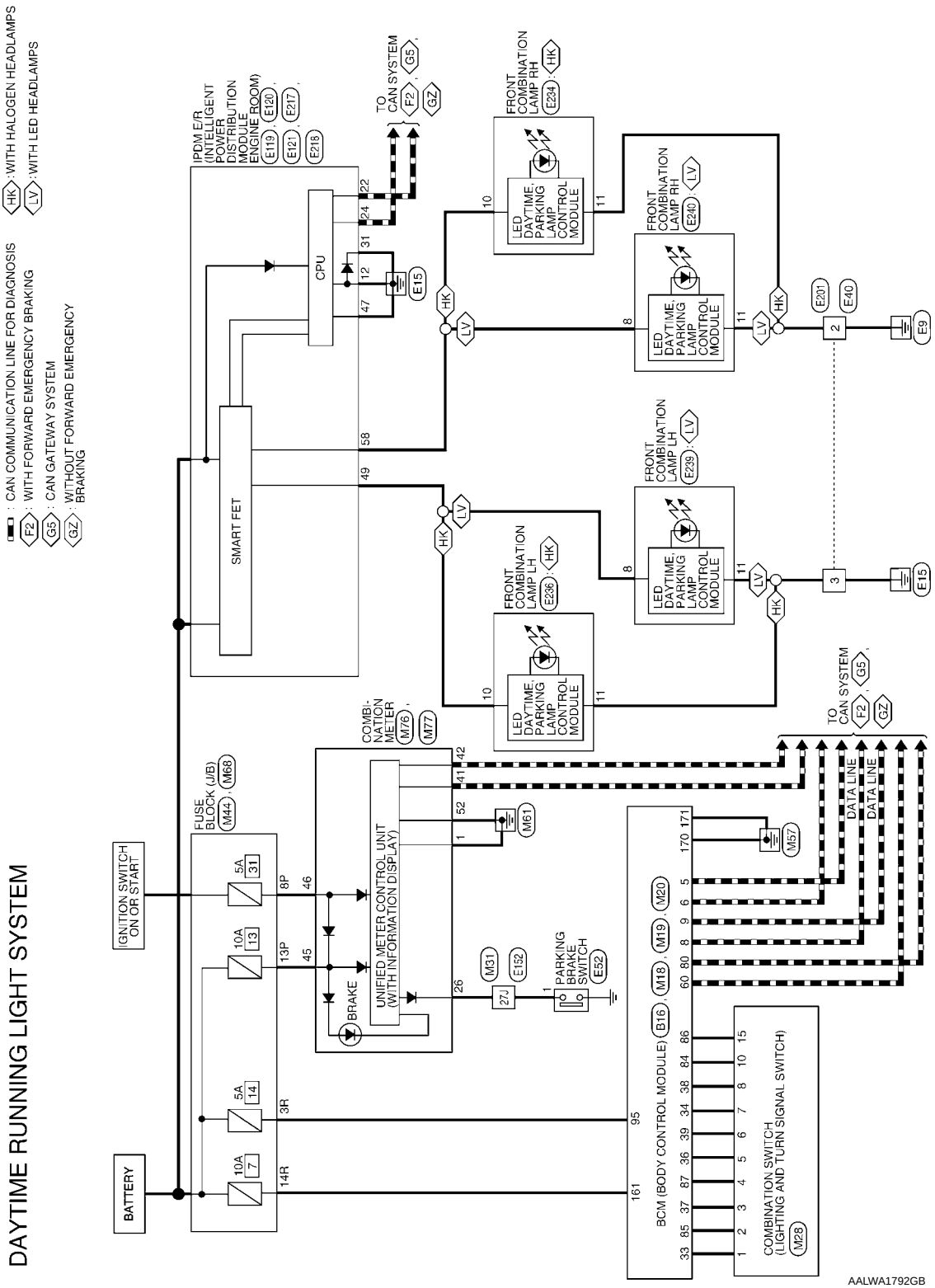
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

AALIA6075GB

DAYTIME RUNNING LIGHT SYSTEM

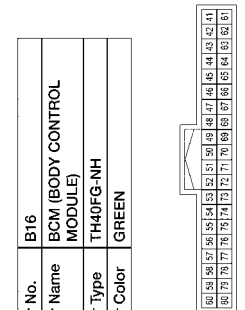
Wiring Diagram

INFOID:0000000015191403



DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	E40
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC
Connector Color	WHITE



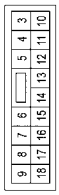
Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	GR	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E52
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A
Connector Color	BLACK



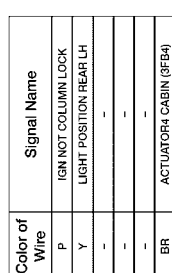
Terminal No.	Color of Wire	Signal Name
1	G	PKB SW

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY



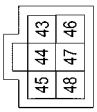
Terminal No.	Color of Wire	Signal Name
3	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	–	–

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
19	LG	IGN ECM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	243405408R
Connector Color	RED



Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	BAT ABS VALVE
45	V	FR WIPER HI
46	W	FUEL PUMP
47	B	POWER GROUND
48	Y	FR WIPER LO

AALIA6056GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1J	–	TO MAIN HARNESS
2J	Y	TO MAIN HARNESS
3J	–	TO MAIN HARNESS
4J	–	TO MAIN HARNESS
5J	–	TO MAIN HARNESS
6J	–	TO MAIN HARNESS
7J	–	TO MAIN HARNESS
8J	–	TO MAIN HARNESS
9J	BR	TO MAIN HARNESS
10J	–	TO MAIN HARNESS
11J	–	TO MAIN HARNESS
12J	–	TO MAIN HARNESS
13J	–	TO MAIN HARNESS
14J	–	TO MAIN HARNESS
15J	–	TO MAIN HARNESS
16J	–	TO MAIN HARNESS
17J	–	TO MAIN HARNESS
18J	–	TO MAIN HARNESS
19J	–	TO MAIN HARNESS
20J	–	TO MAIN HARNESS
21J	GR	TO MAIN HARNESS
22J	SHIELD	TO MAIN HARNESS
23J	LG	TO MAIN HARNESS
24J	V	TO MAIN HARNESS
25J	L	TO MAIN HARNESS
26J	BR	TO MAIN HARNESS
27J	G	TO MAIN HARNESS

28J	R	TO MAIN HARNESS
29J	L	TO MAIN HARNESS
30J	V	TO MAIN HARNESS
31J	–	TO MAIN HARNESS
32J	–	TO MAIN HARNESS
33J	R	TO MAIN HARNESS
34J	L	TO MAIN HARNESS
35J	BG	TO MAIN HARNESS
36J	LG	TO MAIN HARNESS
37J	GR	TO MAIN HARNESS
38J	BR	TO MAIN HARNESS
39J	–	TO MAIN HARNESS
40J	–	TO MAIN HARNESS
41J	G	TO MAIN HARNESS
42J	W	TO MAIN HARNESS
43J	L	TO MAIN HARNESS
44J	B	TO MAIN HARNESS
45J	SB	TO MAIN HARNESS
46J	BR	TO MAIN HARNESS
47J	W	TO MAIN HARNESS
48J	W	TO MAIN HARNESS
49J	L	TO MAIN HARNESS
50J	P	TO MAIN HARNESS
51J	W	TO MAIN HARNESS
52J	R	TO MAIN HARNESS
53J	SB	TO MAIN HARNESS
54J	LG	TO MAIN HARNESS
55J	W	TO MAIN HARNESS
56J	BG	TO MAIN HARNESS
57J	R	TO MAIN HARNESS
58J	V	TO MAIN HARNESS
59J	BR	TO MAIN HARNESS
60J	P	TO MAIN HARNESS
61J	L	TO MAIN HARNESS
62J	P	TO MAIN HARNESS
63J	L	TO MAIN HARNESS
64J	R	TO MAIN HARNESS
65J	L	TO MAIN HARNESS
66J	BG	TO MAIN HARNESS
67J	–	TO MAIN HARNESS
68J	–	TO MAIN HARNESS
69J	G	TO MAIN HARNESS
70J	L	TO MAIN HARNESS
71J	–	TO MAIN HARNESS
72J	–	TO MAIN HARNESS
73J	–	TO MAIN HARNESS
74J	–	TO MAIN HARNESS
75J	–	TO MAIN HARNESS
76J	–	TO MAIN HARNESS
77J	–	TO MAIN HARNESS
78J	–	TO MAIN HARNESS
79J	SHIELD	TO MAIN HARNESS
80J	B	TO MAIN HARNESS

81J	W	TO MAIN HARNESS
82J	–	TO MAIN HARNESS
83J	–	TO MAIN HARNESS
84J	–	TO MAIN HARNESS
85J	–	TO MAIN HARNESS
86J	–	TO MAIN HARNESS
87J	–	TO MAIN HARNESS
88J	–	TO MAIN HARNESS
89J	–	TO MAIN HARNESS
90J	–	TO MAIN HARNESS
91J	–	TO MAIN HARNESS
92J	LG	TO MAIN HARNESS
93J	L	TO MAIN HARNESS
94J	L	TO MAIN HARNESS
95J	BR	TO MAIN HARNESS
96J	–	TO MAIN HARNESS
97J	GR	TO MAIN HARNESS
98J	P	TO MAIN HARNESS
99J	W	TO MAIN HARNESS
100J	Y	TO MAIN HARNESS

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

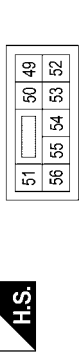
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

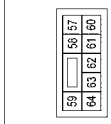
H.S.



Terminal No.	Color of Wire	Signal Name
49	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.



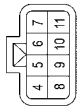
Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

AALIA6057GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	E234
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

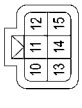
H.S.



Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL RH
11	GR	GROUND
12	GR	O LIGHT CLEARANCE FR RH
13	–	–
14	B	GROUND
15	LG	O LIGHT HBEAM RH

Connector No.	E236
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL LH
11	GR	GROUND
12	BG	O LIGHT CLEARANCE FR LH
13	–	–
14	B	GROUND
15	G	O LIGHT HBEAM LH

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	G	O LIGHT HBEAM LH
6	L	O LIGHT LBEAM LH
7	GR	LI LED DETECTION 2
8	R	O LIGHT DTRL LH
9	BG	O LIGHT CLEARANCE FR LH
10	P	O LIGHT CLEARANCE FR LH
11	B	GROUND

Connector No.	E240
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	LG	O LIGHT HBEAM RH
6	SB	O LIGHT LBEAM RH
7	Y	LI LED DETECTION 1
8	R	O LIGHT DTRL RH
9	GR	O LIGHT CLEARANCE FR RH
10	W	O LIGHT CLEARANCE FR RH
11	B	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6058GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

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

H.S.

120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101
100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

176	175	174	173	172	171	170	169	168
167	166	165	164		163	162	161	

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

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

H.S.

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

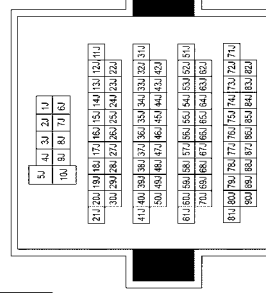
Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

AALIA6059GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.



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

Connector No.	M44
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	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
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	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6060GB

DAYTIME RUNNING LIGHT SYSTEM CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
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
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

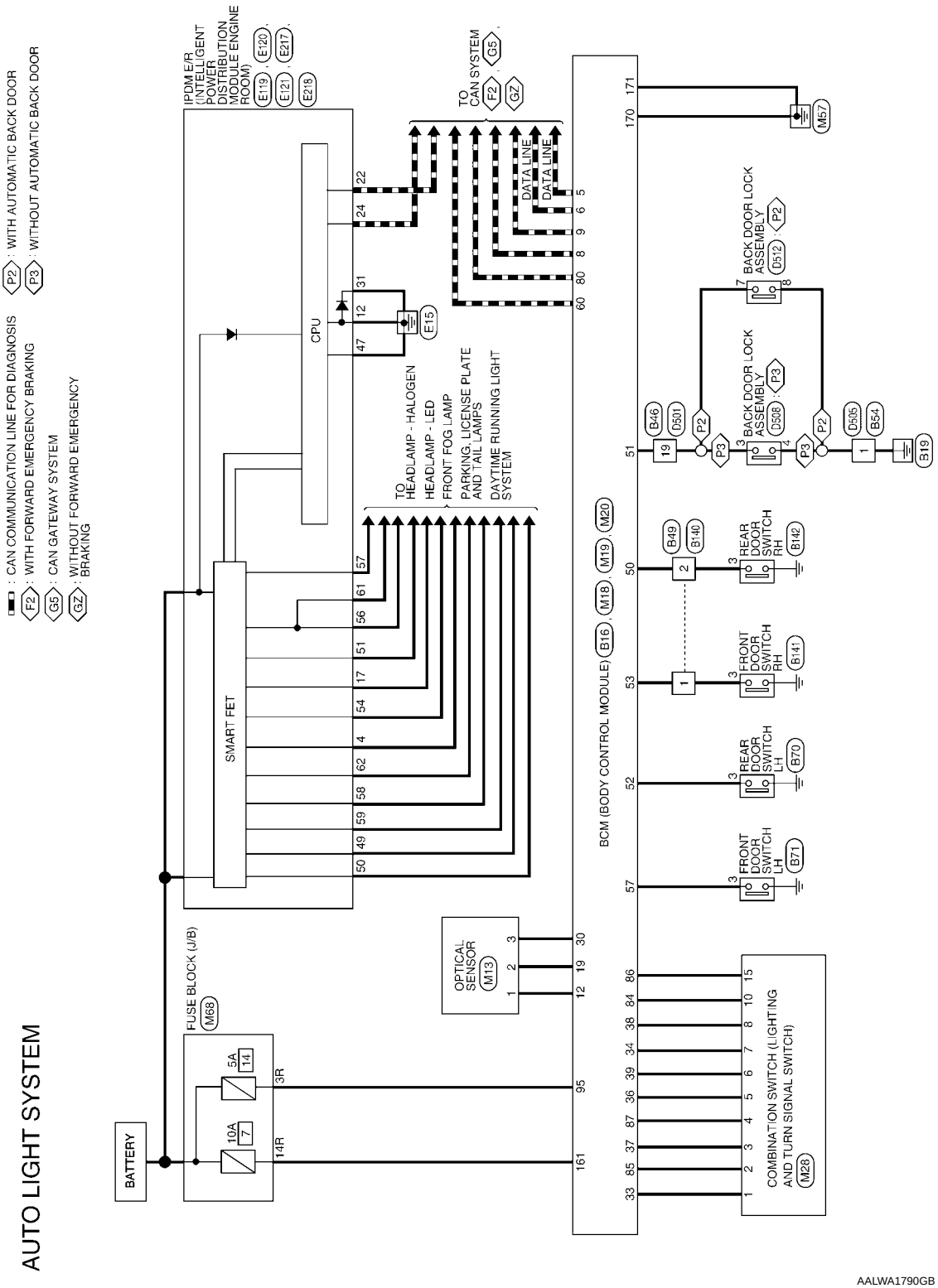
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

AALIA6061GB

AUTO LIGHT SYSTEM

Wiring Diagram

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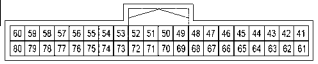


AALWA1790GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

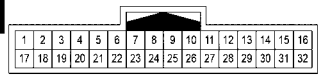
H.S.



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	I SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	I NO TOUCH TGATE SENSOR
50	W	I RR DOOR SW
51	LG	I TGATE SW
52	R	I RL DOOR SW
53	SB	I AS DOOR2 SW
54	–	–
55	LA/G	I RR AUTOSTOP SW
56	Y	I TGATE OPENER SW
57	SB	I DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY
78	–	–
79	LA/W	O STOP LAMP3
80	P	CAN-L

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

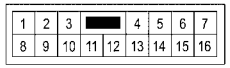
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

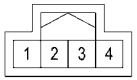
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

Connector No.	B70
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

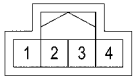
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	R	I RL DOOR SW
4	–	–

Connector No.	B71
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

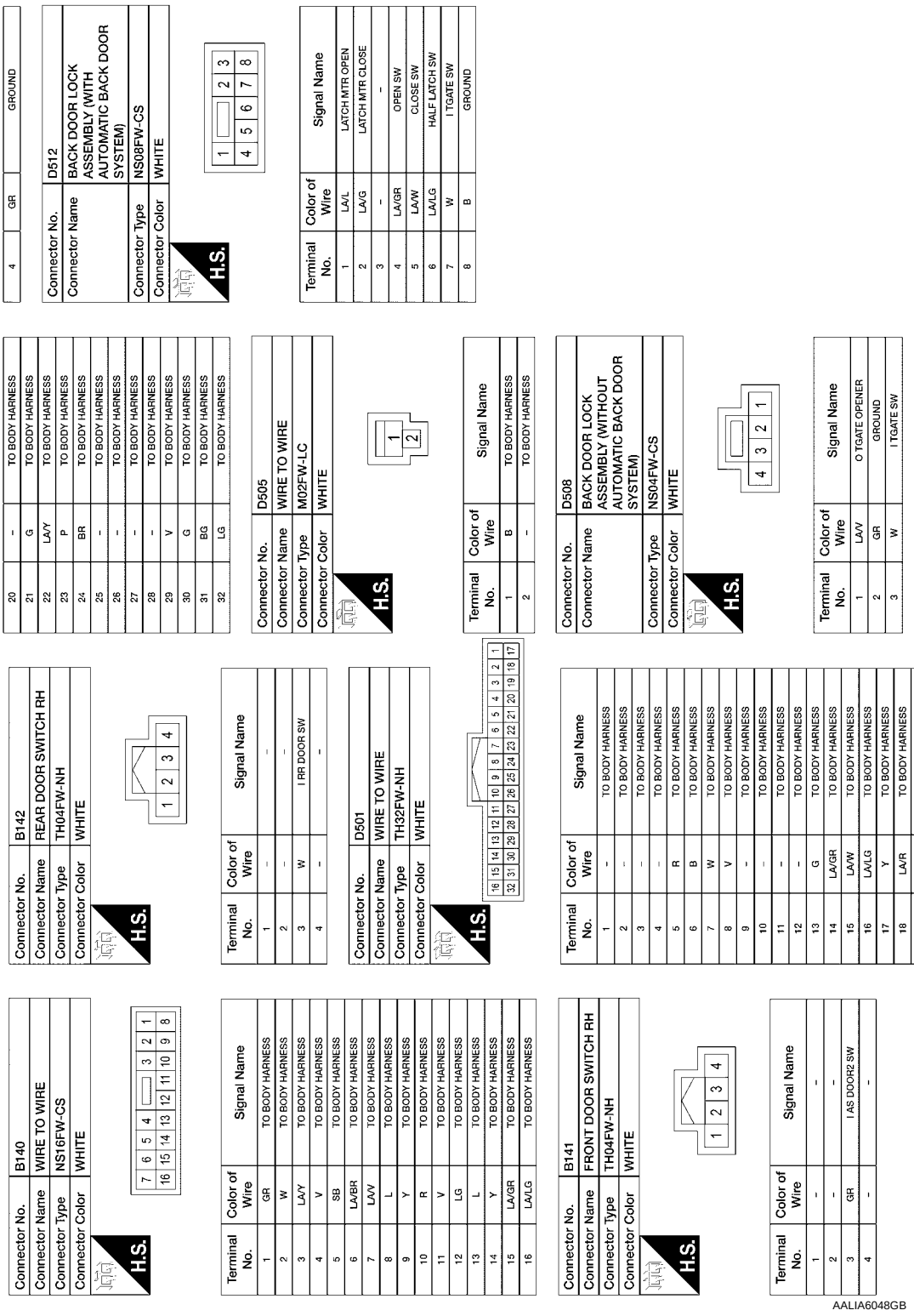
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	I DR DOOR2 SW
4	–	–

AALIA6047GB

AUTO LIGHT SYSTEM CONNECTORS



AALIA6048GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

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	P	O IGN NOT COLUMN LOCK
4	Y	O LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	O ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	O IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	O LIGHT REVERSE LAMP
17	W	O LIGHT POSITION REAR RH
18	–	–

22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	I AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	243405408R
Connector Color	RED

H.S.

45	44	43
48	47	46

Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	O BAT ABS VALVE
45	V	O FR WIPER HI
46	W	O FUEL PUMP
47	B	POWER GROUND
48	Y	O FR WIPER LO

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

30	29	28	27	26	25	24	23	22	21	20	19
42	41	40	39	38	37	36	35	34	33	32	31

Terminal No.	Color of Wire	Signal Name
19	LG	O IGN ECM
20	–	–
21	–	–

Connector No.	E217
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	R	O LIGHT DTRL LH
50	L	O LIGHT LBEAM LH
51	V	O LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	O LIGHT HBEAM RH
55	–	–
56	BG	O LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

59		58	57
64	63	62	61	60

Terminal No.	Color of Wire	Signal Name
57	W	O LIGHT FR FOG LAMPS RH
58	R	O LIGHT DTRL RH
59	G	O LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	O LIGHT PARKING FR RH
62	SB	O LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	M13
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW
Connector Color	WHITE

H.S.

1	2	3

Terminal No.	Color of Wire	Signal Name
1	W	O PWR AUTOLIGHT SENSOR
2	LG	I AUTOLIGHT SENSOR
3	V	O GND AUTOLIGHT SENSOR

AALIA6049GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

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	L	LIN 3 D
2	LA/G	O DI FR LEFT D
3	LA/Y	O DI FR RIGHT D
4	P	O SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	I DOORLOCK SW
11	Y	I HAZARD SW D
12	W	O PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	O PWR ATDVC
18	–	–
19	LG	I AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	O WL AUTHORIZATION RL
24	LA/R	O DEFROSTER RL D
25	BR	O BAT TEMP1 RL
26	–	–
27	Y	O IGN1 RL
28	LA/W	O IGN2 RL
29	–	–
30	V	O GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	O CSW 5
34	Y	I CSW 5
35	BG	O SECURITY LED
36	G	O CSW 3
37	GR	O CSW 4

38	V	O CSW 1
39	W	O CSW 2
40	SB	I DOORUNLOCK SW

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

H.S.

200	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
220	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	I SES FR HANDLE BUTTON SW
83	–	–
84	BR	I CSW 2
85	SB	I CSW 1
86	P	I CSW 3
87	BG	I CSW 4
88	W	O START SW BACKLIGHT LED
89	Y	I START WO ESCL SW
90	–	–
91	–	–
92	BR	I KEY CYLINDER LOCK SW
93	P	I KEY CYLINDER UNLOCK SW
94	G	I AT LOCKED IN PARK SW
95	V	I SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	I DR KNOB SW
105	Y	I SES DR HANDLE BUTTON SW
106	W	O AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	O MR OUTPUT
111	–	–
112	–	–
113	–	–

114	Y	O IMMOBILIZER KAZASHI B
115	W	O IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	I PWR ECU
162	SB	O PWM ROOMLAMP 1
163	L	O AS LOCK OR UNLOCK D
164	–	–
165	V	O DR OR FR LOCK D
166	–	–
167	LA/V	I PWR DOORLOCK1
168	BG	I PWR FLASHERS
169	GR	I PWR STOP LAMP
170	B	I GND1
171	B	I GND2
172	G	O FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	I PWR DOORLOCK2
176	LG	I PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	O CSW 5
2	SB	I CSW 1
3	GR	O CSW 4
4	BG	I CSW 4
5	G	O CSW 3
6	W	O CSW 2
7	Y	I CSW 5
8	V	O CSW 1
9	G	RR WASH MOTOR
10	BR	I CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

AALIA6050GB

AUTO LIGHT SYSTEM CONNECTORS

Connector No.	M68
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

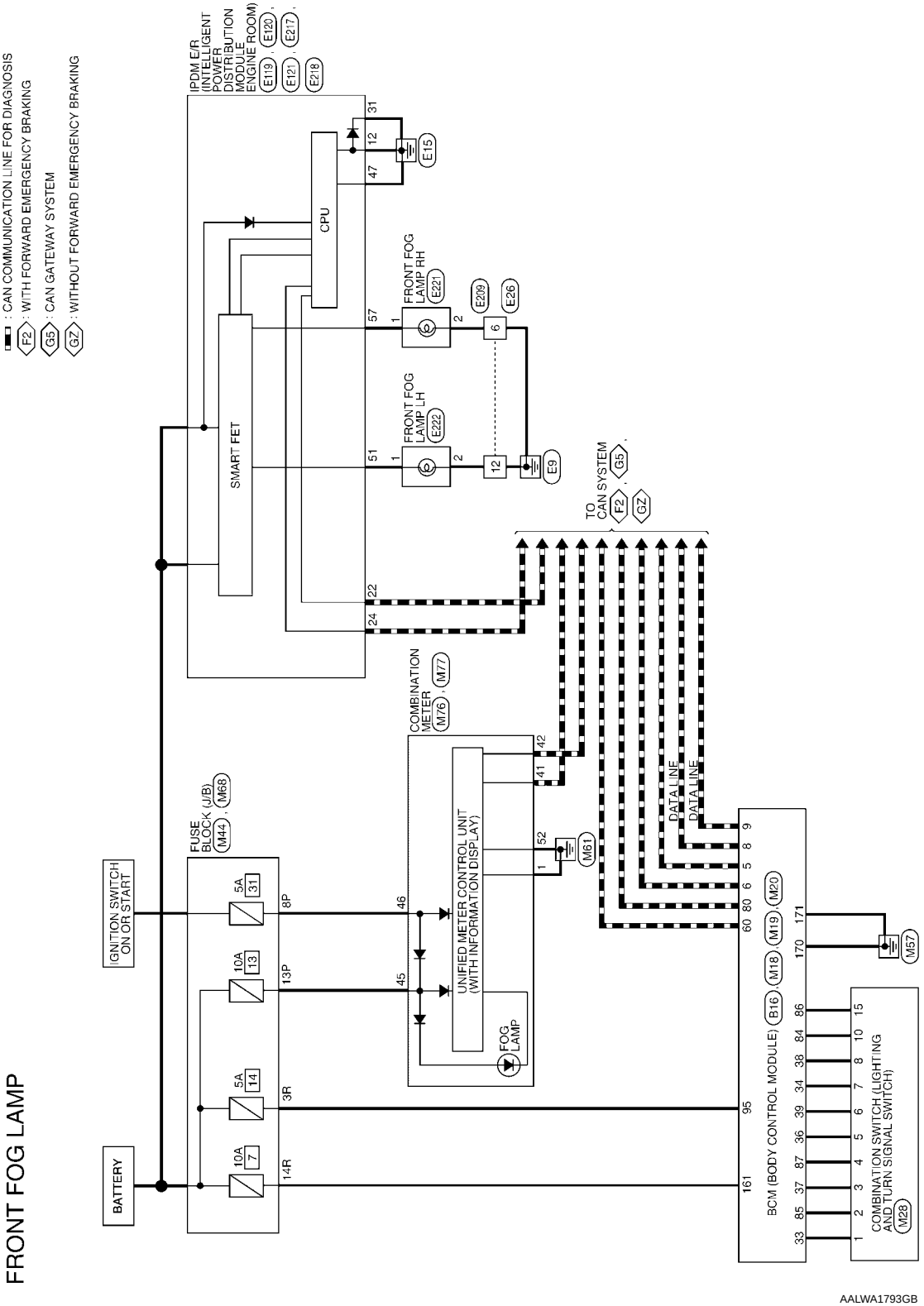
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-
9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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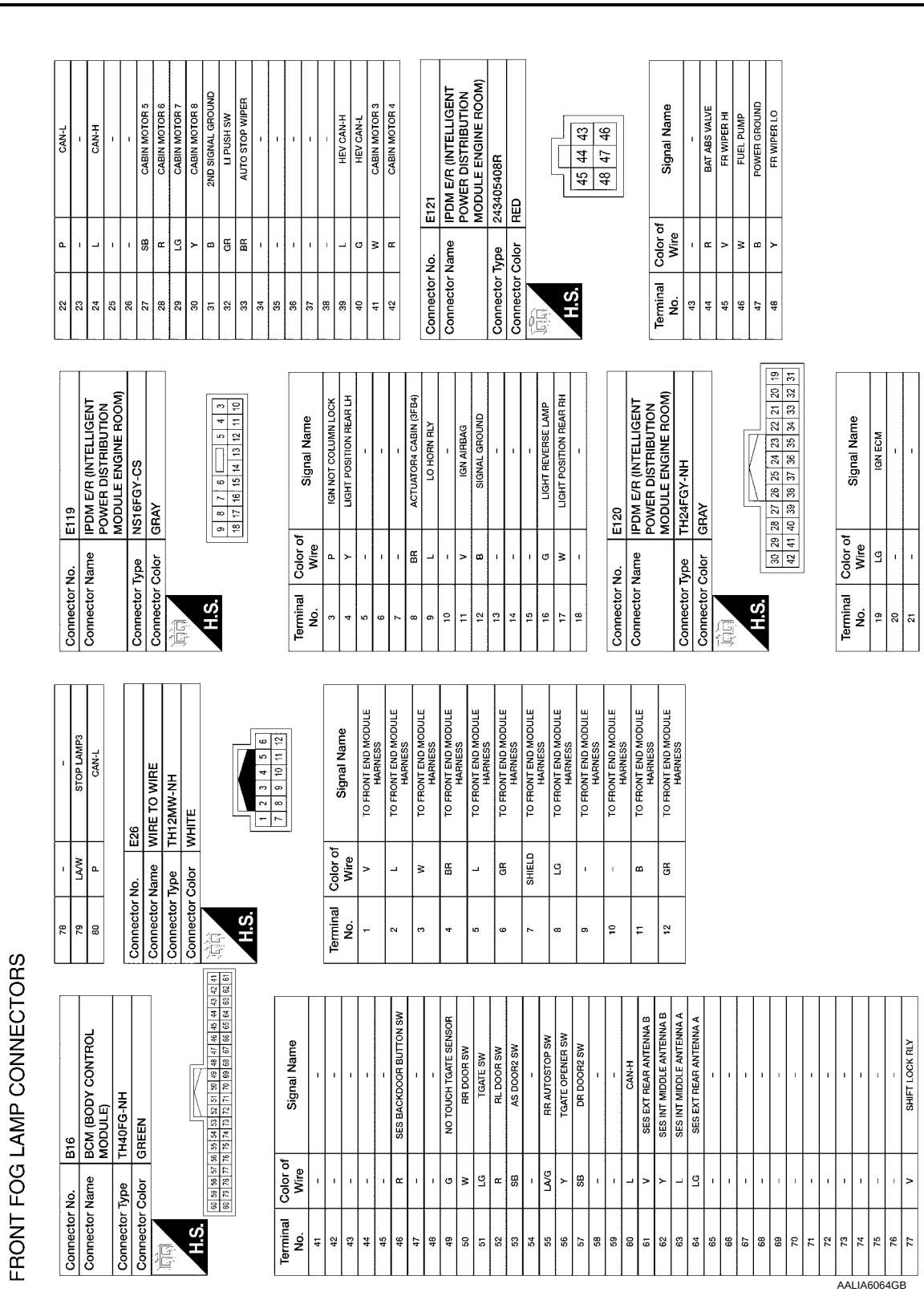
FRONT FOG LAMP SYSTEM

Wiring Diagram

INFOID:0000000015191405



FRONT FOG LAMP CONNECTORS



AALIA6064GB

FRONT FOG LAMP CONNECTORS

Connector No.	E209
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	W	TO ENGINE ROOM HARNESS
4	BG	TO ENGINE ROOM HARNESS
5	L	TO ENGINE ROOM HARNESS
6	GR	TO ENGINE ROOM HARNESS
7	SHIELD	TO ENGINE ROOM HARNESS
8	LG	TO ENGINE ROOM HARNESS
9	–	TO ENGINE ROOM HARNESS
10	–	TO ENGINE ROOM HARNESS
11	B	TO ENGINE ROOM HARNESS
12	GR	TO ENGINE ROOM HARNESS

Connector No.	E217
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	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E221
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	O LIGHT FR FOG LAMPS RH
2	GR	GROUND

Connector No.	E222
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	O LIGHT HBEAM LH
2	GR	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6065GB

FRONT FOG LAMP CONNECTORS

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

H.S.

100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M44
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	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	–	–
12P	–	–
13P	G	BATTERY
14P	–	–
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M68
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	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6066GB

FRONT FOG LAMP CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

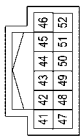


Terminal No.	Color of Wire	Signal Name
1	B	GND
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT

39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.



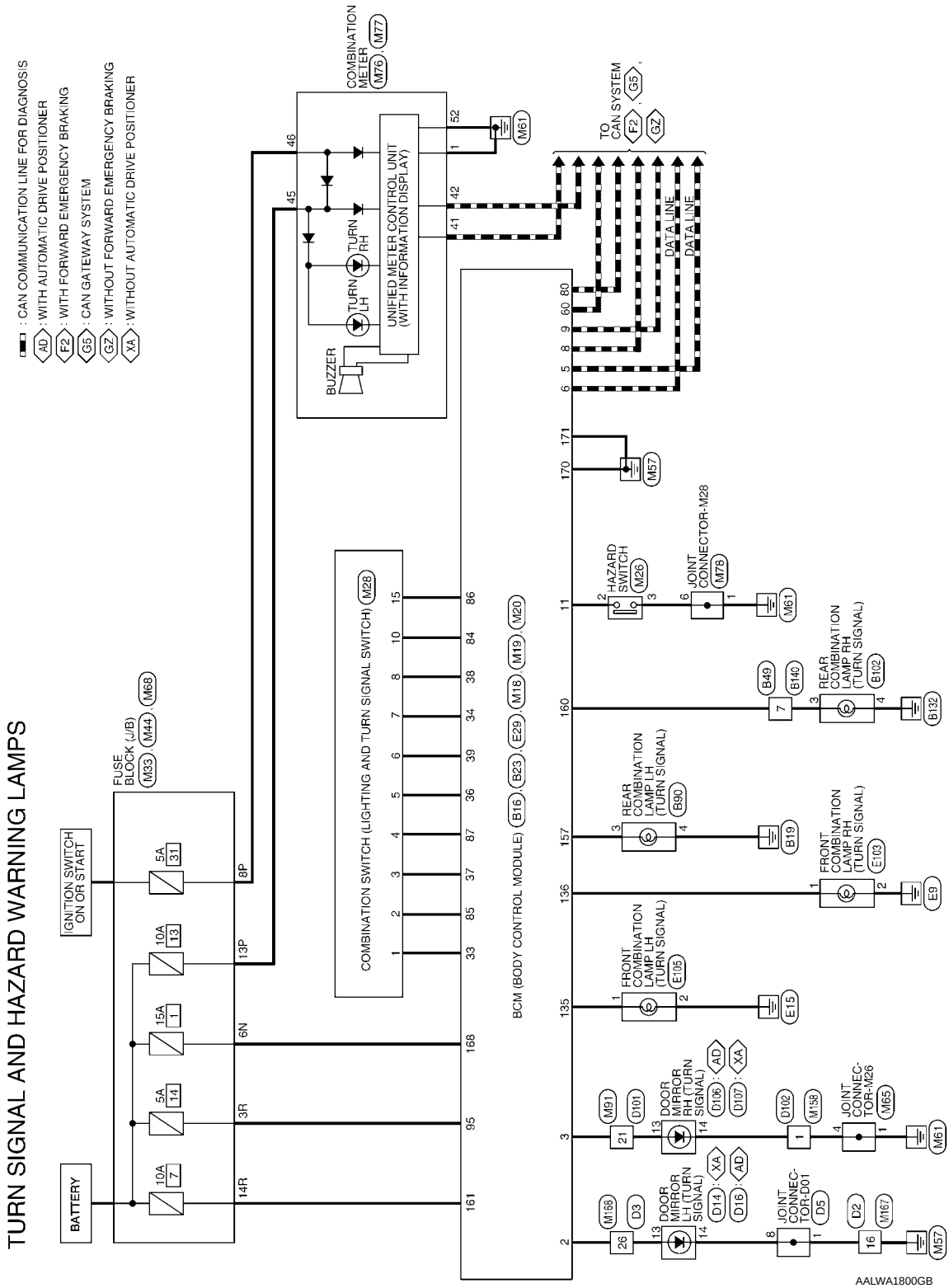
Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	R	ILL CONT OUT
44	LA/B	FUEL SENSOR GND
45	G	BAT
46	V	IGN
47	SB	M-CAN H
48	LG	M-CAN L
49	–	–
50	–	–
51	LA/L	FUEL SENSOR
52	B	G1

AALIA6067GB

TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM

Wiring Diagram

INFOID:0000000015191406



TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

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	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY

78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.

151	150	149	148		147	146	145
160	159	158	157	156	155	154	153	152

Terminal No.	Color of Wire	Signal Name
145	LA/V	TGATE OPENER
146	–	–
147	LA/R	RR WIPER
148	W	RR UNLOCK B
149	L	RR LOCK B
150	–	–
151	R	PWM ROOMLAMP 5
152	–	–
153	LA/W	STOP LAMP1
154	–	–
155	–	–
156	–	–
157	GR	DI RR LEFT B
158	LA/Y	STOP LAMP2 NISSAN EUR
159	–	–
160	P	DI RR RIGHT B

Connector No.	B49
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	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS

3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

Connector No.	B90
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/Y	O STOP LAMP2 NISSAN EUR
3	GR	O DI RR LEFT B
4	B	GROUND

Connector No.	B102
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/Y	O STOP LAMP 1

3	LA/V	O DI RR RIGHT B
4	B	GROUND

Connector No.	B140
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

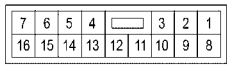
Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

AALIA6094GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

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

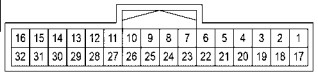
H.S.



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

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

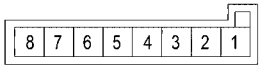
H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	GR	TO MAIN HARNESS
3	W	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	LA/SB	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
4	V	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
4	LA/BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
5	SB	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
5	LA/Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
6	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	LA/V	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
7	W	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	SB	TO MAIN HARNESS
10	LG	TO MAIN HARNESS
11	GR	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	BG	TO MAIN HARNESS
16	L	TO MAIN HARNESS
17	LA/W	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LA/SB	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	LA/W	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	LA/Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	LA/BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	LA/LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
20	LA/GR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	LA/V	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	BR	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	LA/R	TO MAIN HARNESS
24	GR	TO MAIN HARNESS
25	R	TO MAIN HARNESS
26	LA/G	TO MAIN HARNESS
27	LA/LG	TO MAIN HARNESS
28	LA/L	TO MAIN HARNESS
29	LA/Y	TO MAIN HARNESS
30	LA/V	TO MAIN HARNESS
31	LA/BR	TO MAIN HARNESS
32	P	TO MAIN HARNESS

Connector No.	D5
Connector Name	JOINT CONNECTOR-D01
Connector Type	SAC08JW
Connector Color	WHITE

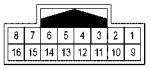
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	B	GROUND
4	B	GROUND
5	LA/B	GROUND
6	B	GROUND (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	LA/B	GROUND (WITH AUTOMATIC DRIVE POSITIONER)
7	B	GROUND
8	LA/B	GROUND

Connector No.	D14
Connector Name	DOOR MIRROR LH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

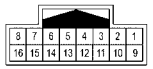
H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	LG	REAR DEFOGGER RELAY OUTPUT
3	–	–
4	LA/BR	SWITCH OUTPUT (COMMON)
5	LA/W	SWITCH OUTPUT (RIGHT)
6	–	–
7	GR	SV2 POWER 6.2V
8	G	SV2 POWER GND
9	–	–
10	B	GROUND
11	–	–
12	LA/GR	SWITCH OUTPUT (DOWN)
13	LA/G	O DI FR LEFT D
14	LA/B	GROUND
15	B	SV2 VIDEO GND
16	Y	SV2 VIDEO SIGNAL

Connector No.	D16
Connector Name	DOOR MIRROR LH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BG	MIRROR SENSOR (LH VERTICAL)
2	LG	RELAY OUTPUT
3	LA/SB	POWER SUPPLY (SENSOR FOR 5V)
4	LA/BR	MIRROR MOTOR LH COMMON (DOWN&RIGHT)
5	LA/W	MIRROR MOTOR LH HORIZONTAL (LEFT)
6	–	–
7	–	–
8	–	–
9	LA/V	MIRROR SENSOR (LH HORIZONTAL)
10	B	GROUND
11	LA/Y	GND (SENSOR GND)
12	LA/GR	MIRROR MOTOR LH VERTICAL
13	LA/G	O DI FR LEFT D
14	LA/B	GROUND
15	–	–
16	–	–

AALIA6095GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	D101
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	B	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	B	TO MAIN HARNESS
4	P	TO MAIN HARNESS
5	R	TO MAIN HARNESS
6	SB	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	B	TO MAIN HARNESS
11	G	TO MAIN HARNESS
12	LA/V	TO MAIN HARNESS
13	LA/Y	TO MAIN HARNESS
14	LA/R	TO MAIN HARNESS
15	LA/V	TO MAIN HARNESS
16	LA/L	TO MAIN HARNESS
17	LA/BG	TO MAIN HARNESS
18	GR	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LA/G	TO MAIN HARNESS
22	LA/SB	TO MAIN HARNESS
23	LA/BG	TO MAIN HARNESS
24	LA/Y	TO MAIN HARNESS

Connector No.	D102
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	LA/B	TO MAIN HARNESS
2	B	TO MAIN HARNESS : (WITH AUTOMATIC DRIVE POSITIONER)
2	LA/G	TO MAIN HARNESS : (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	–	TO MAIN HARNESS
7	–	TO MAIN HARNESS
8	GR	TO MAIN HARNESS
9	Y	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	L	TO MAIN HARNESS
12	V	TO MAIN HARNESS
13	LA/R	TO MAIN HARNESS
14	LA/G	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS

Connector No.	D106
Connector Name	DOOR MIRROR RH (WITH AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LA/BG	MIRROR SENSOR (RH VERTICAL)
2	GR	RELAY OUTPUT
3	LA/SB	POWER SUPPLY (SENSOR FOR 5V)
4	LA/R	MIRROR MOTOR RH (COMMON)
5	LA/Y	MIRROR MOTOR RH HORIZONTAL (LEFT)
6	–	–
7	–	–
8	–	–
9	LA/V	MIRROR SENSOR (RH HORIZONTAL)
10	B	GROUND
11	LA/Y	GND (SENSOR GND)
12	LA/V	MIRROR MOTOR RH VERTICAL
13	LA/G	O DI FR RIGHT D
14	LA/B	GROUND
15	–	–
16	–	–

Connector No.	D107
Connector Name	DOOR MIRROR RH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
3	–	–
4	LA/R	SWITCH OUTPUT (COMMON)
5	LA/Y	SWITCH OUTPUT (RIGHT)
6	–	–
7	L	SV1 POWER 6.2V
8	V	SV1 POWER GND
9	–	–
10	LA/G	GROUND
11	–	–
12	LA/V	SWITCH OUTPUT (DOWN)
13	LA/G	O DI FR RIGHT D
14	LA/B	GROUND
15	B	SV1 VIDEO GND
16	Y	SV1 VIDEO SIGNAL

Connector No.	E29
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

132	131	130	129	128	127	126	125	124	123	122	121
144	143	142	141	140	139	138	137	136	135	134	133

Terminal No.	Color of Wire	Signal Name
121	–	–
122	–	–
123	–	–
124	–	–
125	LG	BRAKE SW2
126	W	BRAKE SW1
127	–	–
128	–	–
129	–	–
130	–	–
131	–	–
132	Y	BUZZER (WITH I-KEY)
133	–	–
134	–	–
135	BR	DI FR LEFT E
136	GR	DI FR RIGHT E
137	–	–
138	–	–
139	G	STCUT RL
140	–	–
141	–	–
142	–	–
143	–	–
144	–	–

AALIA6096GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	E103
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	HS03FGY
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	O DI FR RIGHT E
2	BR	GROUND
3	–	–

Connector No.	E105
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	HS03FGY
Connector Color	GRAY

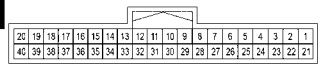
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	O DI FR LEFT E
2	B	GROUND
3	–	–

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

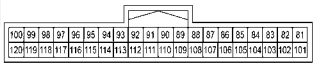
H.S.



Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

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

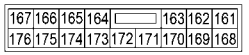
H.S.



Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A
118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



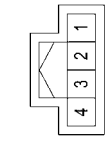
Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

AALIA6097GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M26
Connector Name	HAZARD SWITCH
Connector Type	TH04FW-NH
Connector Color	WHITE

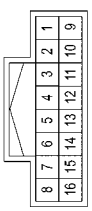
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	Y	I HAZARD SW D
3	GR	GROUND
4	R	ILL CONT OUT

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

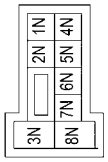
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	-	-
13	-	-
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1N	L	ACCESSORY RELAY 1 OUTPUT
2N	LG	BATTERY
3N	Y	FRONT BLOWER MOTOR RELAY OUTPUT
4N	LG	BATTERY
5N	R	BATTERY
6N	BG	BATTERY
7N	BR	ACCESSORY RELAY-1 CONTROL
8N	SB	FRONT BLOWER MOTOR RELAY OUTPUT

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

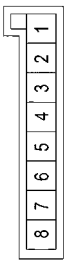


Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	G	IGNITION
3P	Y	IGNITION RELAY-2 CONTROL
4P	LG	REAR WINDOW DEFOGGER RELAY OUTPUT
5P	GR	REAR WINDOW DEFOGGER RELAY OUTPUT
6P	LA/R	REAR WINDOW DEFOGGER RELAY CONTROL
7P	Y	IGNITION
8P	V	IGNITION
9P	L	BATTERY
10P	LG	IGNITION
11P	-	-

12P	-	-
13P	G	BATTERY
14P	-	-
15P	L	BATTERY
16P	LA/W	FRONT BLOWER MOTOR RELAY CONTROL

Connector No.	M65
Connector Name	JOINT CONNECTOR-M26
Connector Type	SAC08JW
Connector Color	WHITE

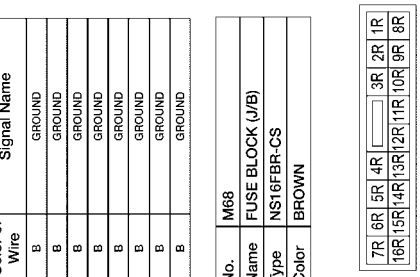
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	B	GROUND
4	B	GROUND
5	B	GROUND
6	B	GROUND
7	B	GROUND
8	B	GROUND

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-

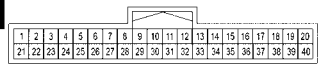
9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

AALIA6098GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M76
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

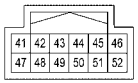
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	–	–
3	–	–
4	–	–
5	–	–
6	–	–
7	BG	SECURITY
8	–	–
9	GR	ECO MODE SW
10	–	–
11	–	–
12	–	–
13	–	–
14	–	–
15	L	OUTSIDE TEMP SENSOR
16	–	–
17	BG	SATELLITE SW GND
18	SB	TRIP RESET SW
19	–	–
20	Y	OUTSIDE TEMP GND
21	L	GND (STRG SW GND)
22	Y	STRG SW A
23	GR	STRG SW B
24	BR	WASHER SW
25	V	BRAKE OIL SW
26	G	PKB SW
27	–	–
28	Y	DR BELT SW
29	R	SPORT MODE SW
30	LG	M RANGE
31	SB	NOT M RANGE
32	BG	AT SHIFT UP
33	BR	AT SHIFT DOWN
34	–	–
35	–	–
36	GR	ILL UP SW
37	V	ILL DOWN SW
38	G	8P/R OUTPUT
39	W	2P/R OUTPUT
40	–	–

Connector No.	M77
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH
Connector Color	WHITE

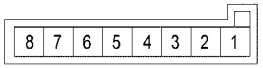
H.S.



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

Connector No.	M78
Connector Name	JOINT CONNECTOR-M28
Connector Type	SAC08JW
Connector Color	WHITE

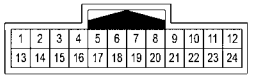
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	GR	GROUND
3	GR	GROUND
4	–	–
5	–	–
6	GR	GROUND
7	GR	GROUND
8	–	–

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

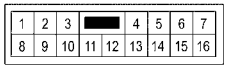
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	GR	TO FRONT DOOR RH HARNESS
4	W	TO FRONT DOOR RH HARNESS
5	P	TO FRONT DOOR RH HARNESS
6	SB	TO FRONT DOOR RH HARNESS
7	B	TO FRONT DOOR RH HARNESS
8	L	TO FRONT DOOR RH HARNESS
9	Y	TO FRONT DOOR RH HARNESS
10	SHIELD	TO FRONT DOOR RH HARNESS
11	G	TO FRONT DOOR RH HARNESS
12	V	TO FRONT DOOR RH HARNESS
13	Y	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
13	LA/SB	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
14	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	LA/GR	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	V	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	LA/V	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LA/L	TO FRONT DOOR RH HARNESS
17	LA/BG	TO FRONT DOOR RH HARNESS
18	GR	TO FRONT DOOR RH HARNESS
19	LG	TO FRONT DOOR RH HARNESS
20	BR	TO FRONT DOOR RH HARNESS
21	LA/Y	TO FRONT DOOR RH HARNESS
22	SB	TO FRONT DOOR RH HARNESS
23	BG	TO FRONT DOOR RH HARNESS
24	Y	TO FRONT DOOR RH HARNESS

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR RH HARNESS
2	GR	TO FRONT DOOR RH HARNESS
3	–	TO FRONT DOOR RH HARNESS
4	–	TO FRONT DOOR RH HARNESS
5	–	TO FRONT DOOR RH HARNESS
6	–	TO FRONT DOOR RH HARNESS
7	–	TO FRONT DOOR RH HARNESS
8	SB	TO FRONT DOOR RH HARNESS
9	LA/BR	TO FRONT DOOR RH HARNESS
10	LA/GR	TO FRONT DOOR RH HARNESS
11	L	TO FRONT DOOR RH HARNESS
12	Y	TO FRONT DOOR RH HARNESS
13	GR	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
13	R	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
14	W	TO FRONT DOOR RH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
14	SB	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
15	–	TO FRONT DOOR RH HARNESS
16	–	TO FRONT DOOR RH HARNESS

AALIA6099GB

TURN SIGNAL AND HAZARD WARNING LAMP CONNECTORS

Connector No.	M167
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	V	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G	TO FRONT DOOR LH HARNESS
4	BR	TO FRONT DOOR LH HARNESS
5	P	TO FRONT DOOR LH HARNESS
6	Y	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
6	LA/L	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
7	R	TO FRONT DOOR LH HARNESS - (WITHOUT BOSE AUDIO SYSTEM)
7	LA/BR	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	L	TO FRONT DOOR LH HARNESS
9	LA/BR	TO FRONT DOOR LH HARNESS
10	LA/GR	TO FRONT DOOR LH HARNESS
11	Y	TO FRONT DOOR LH HARNESS
12	BG	TO FRONT DOOR LH HARNESS
13	LA/G	TO FRONT DOOR LH HARNESS
14	LA/R	TO FRONT DOOR LH HARNESS
15	P	TO FRONT DOOR LH HARNESS
16	B	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

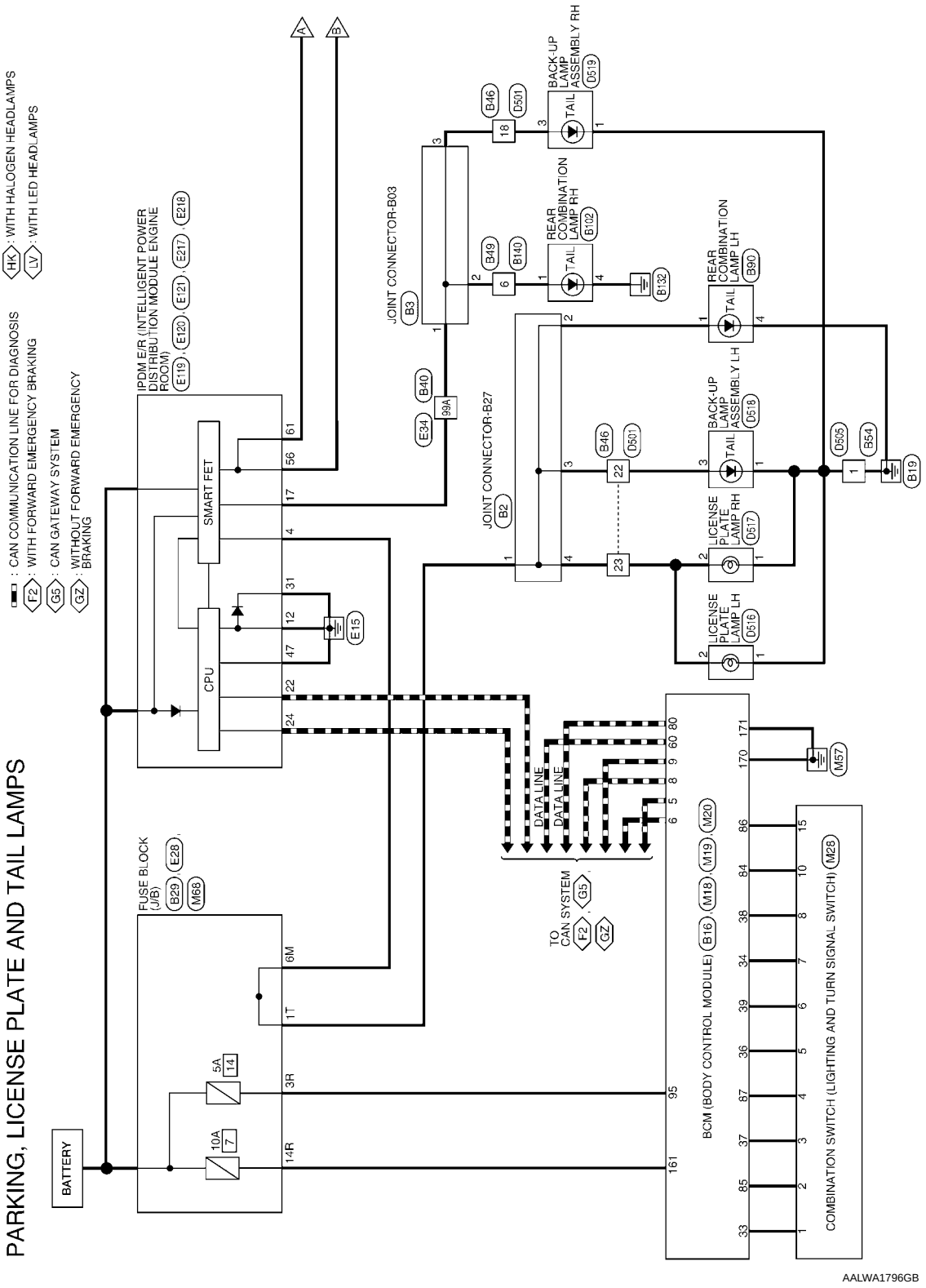
Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT DOOR LH HARNESS
2	GR	TO FRONT DOOR LH HARNESS
3	Y	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
3	SB	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
4	V	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
4	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
5	BR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
5	Y	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
6	LG	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
6	V	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
7	Y	TO FRONT DOOR LH HARNESS
8	V	TO FRONT DOOR LH HARNESS
9	BR	TO FRONT DOOR LH HARNESS
10	LG	TO FRONT DOOR LH HARNESS
11	L	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	G	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	SB	TO FRONT DOOR LH HARNESS
16	BG	TO FRONT DOOR LH HARNESS
17	SB	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	GR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	LA/GB	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	LA/GR	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	BR	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	LA/V	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
20	GR	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
21	BR	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	LA/R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
23	R	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
24	GR	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS LED INDICATOR L
26	LA/G	TO FRONT DOOR LH HARNESS
27	LG	TO FRONT DOOR LH HARNESS
28	L	TO FRONT DOOR LH HARNESS
29	Y	TO FRONT DOOR LH HARNESS
30	V	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	P	TO FRONT DOOR LH HARNESS

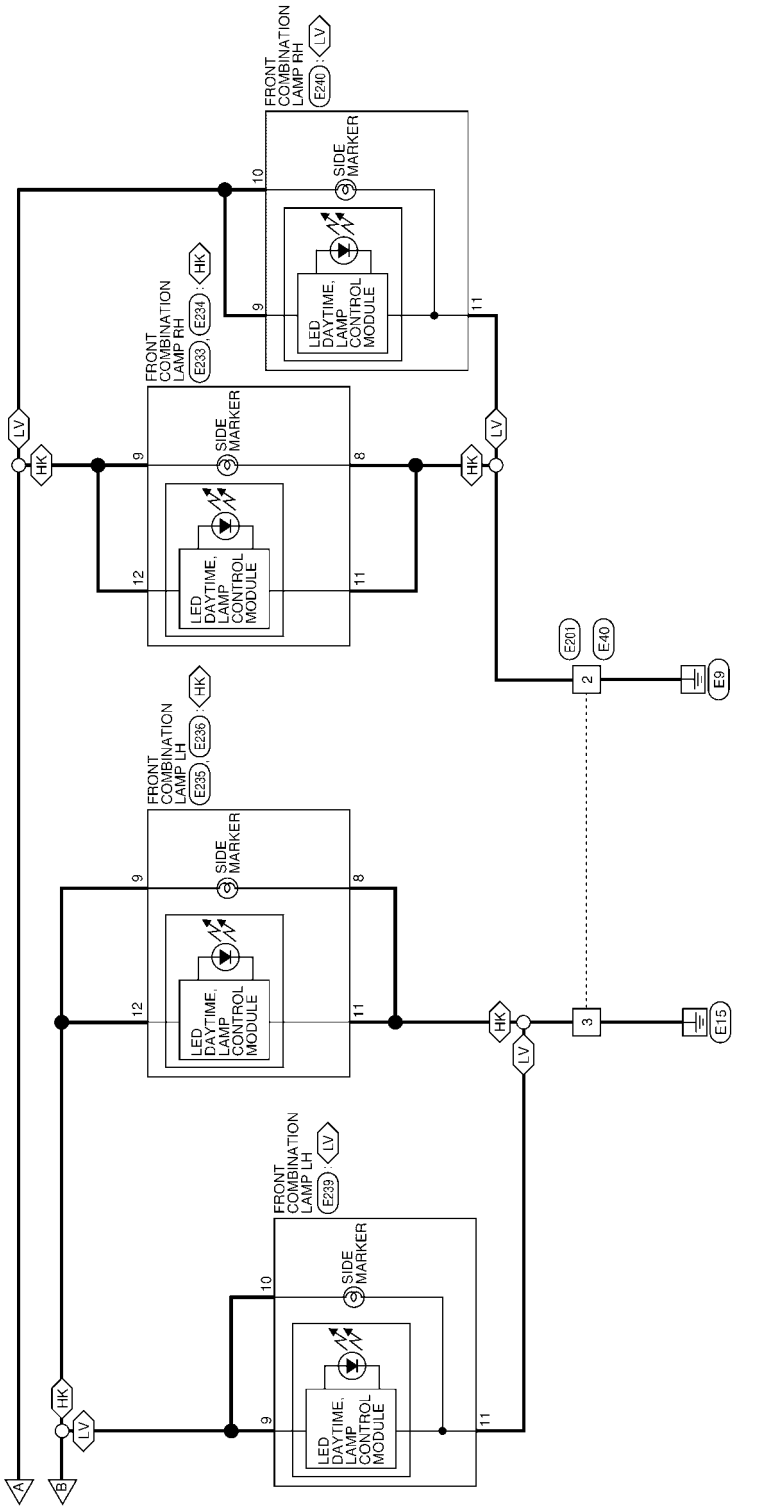
AALIA6100GB

PARKING, LICENSE PLATE AND TAIL LAMPS SYSTEM

Wiring Diagram

INFOID:0000000015191407

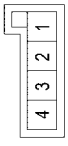



FRONT COMBINATION LAMP RH
E240
LV
SIDE MARKER
LED DAYTIME LAMP CONTROL MODULE
FRONT COMBINATION LAMP RH
E233
E234
HK
FRONT COMBINATION LAMP LH
E235
E236
FRONT COMBINATION LAMP LH
E239
E201
E40
E9
E15
2
3
A
B
AALWA1797GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	B2
Connector Name	JOINT CONNECTOR-B27
Connector Type	SAC04JW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/R	O LIGHT POSITION REAR LH
2	LA/R	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR LH
4	LA/R	O LIGHT POSITION REAR LH

Connector No.	B3
Connector Name	JOINT CONNECTOR-B03
Connector Type	SAC04JW
Connector Color	WHITE

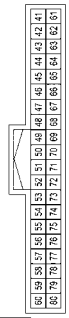
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/BR	O LIGHT POSITION REAR RH
3	LA/BR	O LIGHT POSITION REAR RH
4	–	–

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

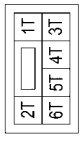
H.S.



Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	R	SES BACKDOOR BUTTON SW
47	–	–
48	–	–
49	G	NO TOUCH TGATE SENSOR
50	W	RR DOOR SW
51	LG	TGATE SW
52	R	RL DOOR SW
53	SB	AS DOOR2 SW
54	–	–
55	LA/G	RR AUTOSTOP SW
56	Y	TGATE OPENER SW
57	SB	DR DOOR2 SW
58	–	–
59	–	–
60	L	CAN-H
61	V	SES EXT REAR ANTENNA B
62	Y	SES INT MIDDLE ANTENNA B
63	L	SES INT MIDDLE ANTENNA A
64	LG	SES EXT REAR ANTENNA A
65	–	–
66	–	–
67	–	–
68	–	–
69	–	–
70	–	–
71	–	–
72	–	–
73	–	–
74	–	–
75	–	–
76	–	–
77	V	SHIFT LOCK RLY
78	–	–
79	LA/W	STOP LAMP3
80	P	CAN-L

Connector No.	B29
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1T	LA/R	BATTERY
2T	–	–
3T	G	BATTERY
4T	LG	BATTERY
5T	G	BATTERY
6T	–	–

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PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	B40
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

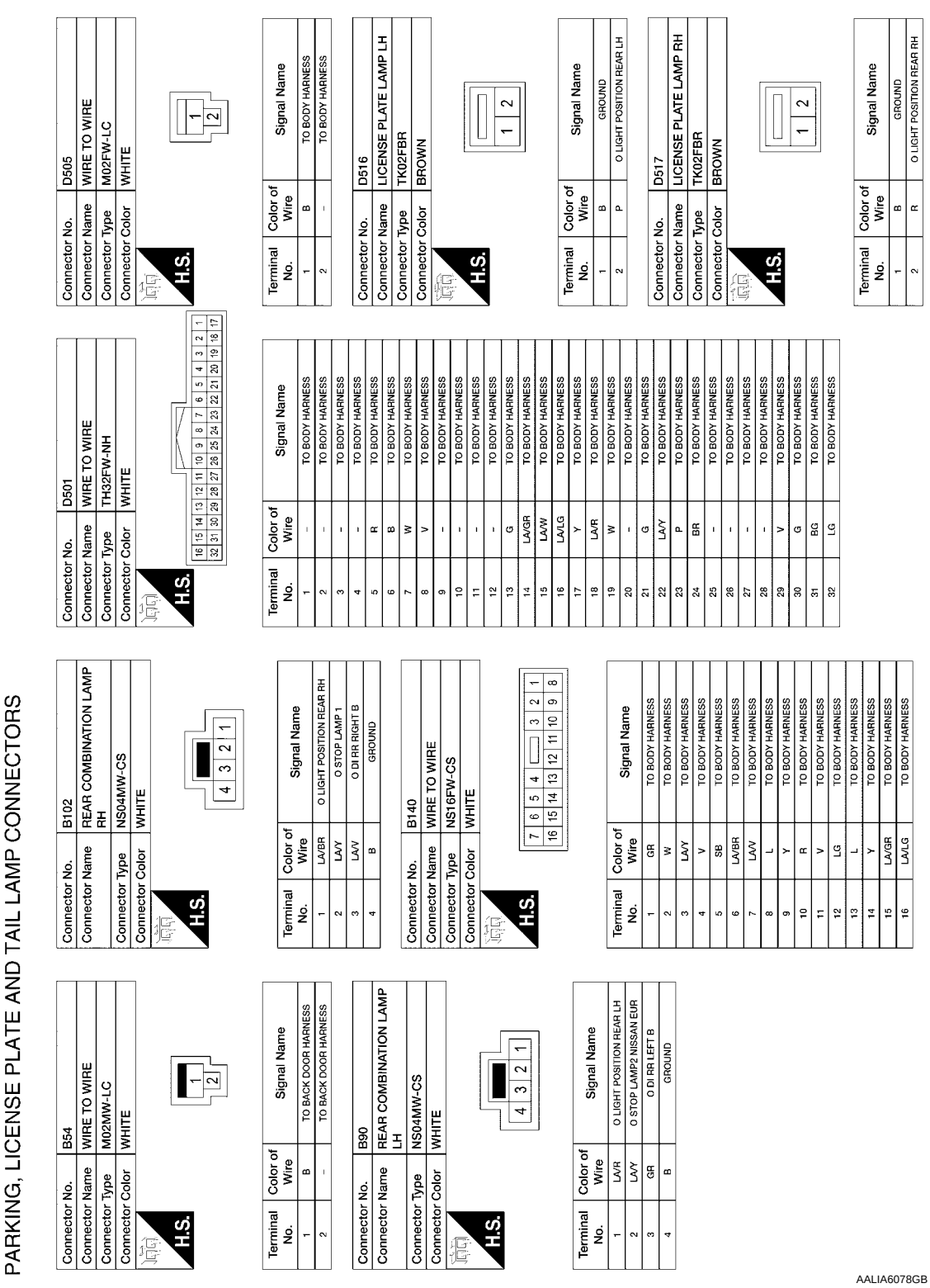
H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO BODY NO. 2 HARNESS
2	W	TO BODY NO. 2 HARNESS
3	LA/W	TO BODY NO. 2 HARNESS
4	V	TO BODY NO. 2 HARNESS
5	SB	TO BODY NO. 2 HARNESS
6	LA/BR	TO BODY NO. 2 HARNESS
7	P	TO BODY NO. 2 HARNESS
8	LA/W	TO BODY NO. 2 HARNESS
9	LA/BR	TO BODY NO. 2 HARNESS
10	R	TO BODY NO. 2 HARNESS
11	LA/G	TO BODY NO. 2 HARNESS
12	LA/P	TO BODY NO. 2 HARNESS
13	–	TO BODY NO. 2 HARNESS
14	–	TO BODY NO. 2 HARNESS
15	G	TO BODY NO. 2 HARNESS
16	V	TO BODY NO. 2 HARNESS

AALIA6077GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

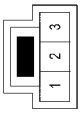


AALIA6078GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	D518
Connector Name	BACK-UP LAMP ASSEMBLY LH
Connector Type	NS03MW-CS
Connector Color	WHITE

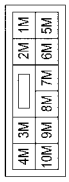
H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	G	O LIGHT REVERSE LAMP
3	LA/Y	O LIGHT POSITION REAR LH

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE

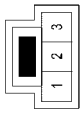
H.S.



Terminal No.	Color of Wire	Signal Name
1M	–	–
2M	–	–
3M	–	–
4M	–	–
5M	V	BATTERY
6M	Y	O LIGHT POSITION REAR LH
7M	–	–
8M	–	–
9M	–	–
10M	–	–

Connector No.	D519
Connector Name	BACK-UP LAMP ASSEMBLY RH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.



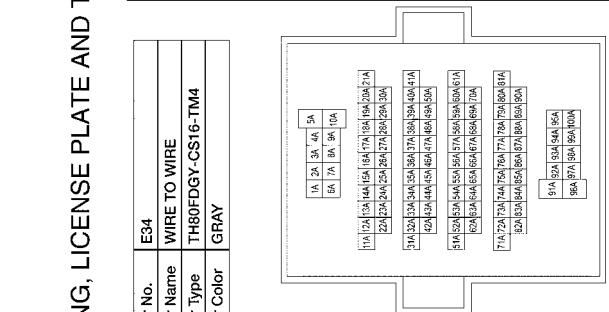
Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	L	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR RH

AALIA6079GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.



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

Connector No.	E40
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	-	TO FRONT END MODULE HARNESS
2	GR	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	-	TO FRONT END MODULE HARNESS

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
3	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	-	-
6	-	-
7	-	-
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	-	-
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	-	-
14	-	-
15	-	-
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	-	-

AALIA6080GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

30	29	28	27	26	25	24	23	22	21	20	19
42	41	40	39	38	37	36	35	34	33	32	31

Terminal No.	Color of Wire	Signal Name
19	LG	IGN EGM
20	–	–
21	–	–
22	P	CAN-L
23	–	–
24	L	CAN-H
25	–	–
26	–	–
27	SB	CABIN MOTOR 5
28	R	CABIN MOTOR 6
29	LG	CABIN MOTOR 7
30	Y	CABIN MOTOR 8
31	B	2ND SIGNAL GROUND
32	GR	LI PUSH SW
33	BR	AUTO STOP WIPER
34	–	–
35	–	–
36	–	–
37	–	–
38	–	–
39	L	HEV CAN-H
40	G	HEV CAN-L
41	W	CABIN MOTOR 3
42	R	CABIN MOTOR 4

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	24340540BR
Connector Color	RED

H.S.

45	44	43
48	47	46

Terminal No.	Color of Wire	Signal Name
43	–	–
44	R	BAT ABS VALVE
45	V	FR WIPER HI
46	W	FUEL PUMP
47	B	POWER GROUND
48	Y	FR WIPER LO

Connector No.	E201
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

2	1
4	3

Terminal No.	Color of Wire	Signal Name
1	–	TO FRONT END MODULE HARNESS
2	B	TO FRONT END MODULE HARNESS
3	B	TO FRONT END MODULE HARNESS
4	–	TO FRONT END MODULE HARNESS

Connector No.	E217
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	R	LIGHT DTRL LH
50	L	LIGHT LBEAM LH
51	V	LIGHT FR FOG LAMPS LH
52	R	LI HOOD SW
53	GR	LI LED DETECTION 2
54	LG	LIGHT HBEAM RH
55	–	–
56	BG	LIGHT PARKING FR LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

59		58	57
64	63	62	61	60

Terminal No.	Color of Wire	Signal Name
57	W	LIGHT FR FOG LAMPS RH
58	R	LIGHT DTRL RH
59	G	LIGHT HBEAM LH
60	Y	LI LED DETECTION 1
61	GR	LIGHT PARKING FR RH
62	SB	LIGHT LBEAM RH
63	–	–
64	–	–

Connector No.	E233
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.

4	5	6
7	8	9

Terminal No.	Color of Wire	Signal Name
4	SB	O LIGHT LBEAM RH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	W	O LIGHT CLEARANCE FR RH

Connector No.	E234
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

10	11	12
13	14	15

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL RH
11	GR	GROUND
12	GR	O LIGHT CLEARANCE FR RH
13	–	–
14	B	GROUND
15	LG	O LIGHT HBEAM RH

AALIA6081GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

Connector No.	E235
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	L	O LIGHT LBEAM LH
5	B	GROUND
6	–	–
7	–	–
8	B	GROUND
9	P	O LIGHT CLEARANCE FR LH

Connector No.	E236
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
10	R	O LIGHT DTRL LH
11	GR	GROUND
12	BG	O LIGHT CLEARANCE FR LH
13	–	–
14	B	GROUND
15	G	O LIGHT HBEAM LH

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	G	O LIGHT HBEAM LH
6	L	O LIGHT LBEAM LH
7	GR	LI LED DETECTION 2
8	R	O LIGHT DTRL LH
9	BG	O LIGHT CLEARANCE FR LH
10	P	O LIGHT CLEARANCE FR LH
11	B	GROUND

Connector No.	E240
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	GROUND
5	LG	O LIGHT HBEAM RH
6	SB	O LIGHT LBEAM RH
7	Y	LI LED DETECTION 1
8	R	O LIGHT DTRL RH
9	GR	O LIGHT CLEARANCE FR RH
10	W	O LIGHT CLEARANCE FR RH
11	B	GROUND

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	LIN 3 D
2	LA/G	DI FR LEFT D
3	LA/Y	DI FR RIGHT D
4	P	SPARE4 RL N
5	R	CAN-L
6	L	CAN-H
7	–	–
8	L	CAN-H
9	R	CAN-L
10	BG	DOORLOCK SW
11	Y	HAZARD SW D
12	W	PWR AUTOLIGHT SENSOR
13	–	–
14	–	–
15	–	–
16	–	–
17	L	PWR ATDVC
18	–	–
19	LG	AUTOLIGHT SENSOR
20	–	–
21	–	–
22	–	–
23	G	WL AUTHORIZATION RL
24	LA/R	DEFROSTER RL D
25	BR	BAT TEMP1 RL
26	–	–
27	Y	IGN1 RL
28	LA/W	IGN2 RL
29	–	–
30	V	GND AUTOLIGHT SENSOR
31	–	–
32	–	–
33	LG	CSW 5
34	Y	CSW 5
35	BG	SECURITY LED
36	G	CSW 3
37	GR	CSW 4
38	V	CSW 1
39	W	CSW 2
40	SB	DOORUNLOCK SW

AALIA6082GB

PARKING, LICENSE PLATE AND TAIL LAMP CONNECTORS

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

H.S.

120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101
100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81

Terminal No.	Color of Wire	Signal Name
81	–	–
82	W	SES FR HANDLE BUTTON SW
83	–	–
84	BR	CSW 2
85	SB	CSW 1
86	P	CSW 3
87	BG	CSW 4
88	W	START SW BACKLIGHT LED
89	Y	START WO ESCL SW
90	–	–
91	–	–
92	BR	KEY CYLINDER LOCK SW
93	P	KEY CYLINDER UNLOCK SW
94	G	AT LOCKED IN PARK SW
95	V	SHORTING PIN
96	–	–
97	–	–
98	–	–
99	–	–
100	V	SES EXT DR ANTENNA A
101	–	–
102	–	–
103	–	–
104	R	DR KNOB SW
105	Y	SES DR HANDLE BUTTON SW
106	W	AUTO ACC2
107	–	–
108	–	–
109	–	–
110	BG	MR OUTPUT
111	–	–
112	–	–
113	–	–
114	Y	IMMOBILIZER KAZASHI B
115	W	IMMOBILIZER KAZASHI A
116	BG	SES INT FRONT ANTENNA B
117	GR	SES INT FRONT ANTENNA A

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

176	175	174	173	172	171	170	169	168
167	166	165	164		163	162	161	

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	–	–
165	V	DR OR FR LOCK D
166	–	–
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	–	–
174	–	–
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

118	SB	SES EXT AS ANTENNA B
119	P	SES EXT AS ANTENNA A
120	BR	SES EXT DR ANTENNA B

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	CSW 5
2	SB	CSW 1
3	GR	CSW 4
4	BG	CSW 4
5	G	CSW 3
6	W	CSW 2
7	Y	CSW 5
8	V	CSW 1
9	G	RR WASH MOTOR
10	BR	CSW 2
11	Y	FR WASH MOTOR
12	–	–
13	–	–
14	LG	IGNITION
15	P	I CSW 3
16	GR	GROUND

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

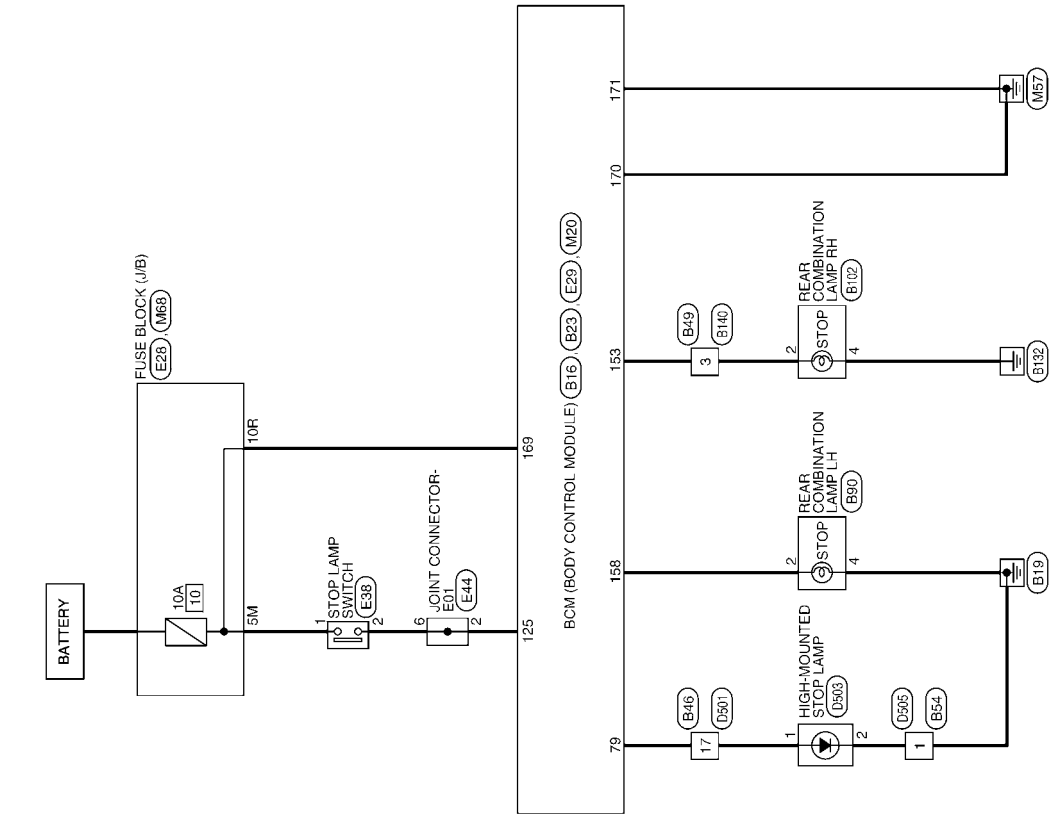
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	–	–
5R	–	–
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	–	–
9R	–	–
10R	GR	BATTERY
11R	–	–
12R	–	–
13R	–	–
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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STOP LAMP

Wiring Diagram

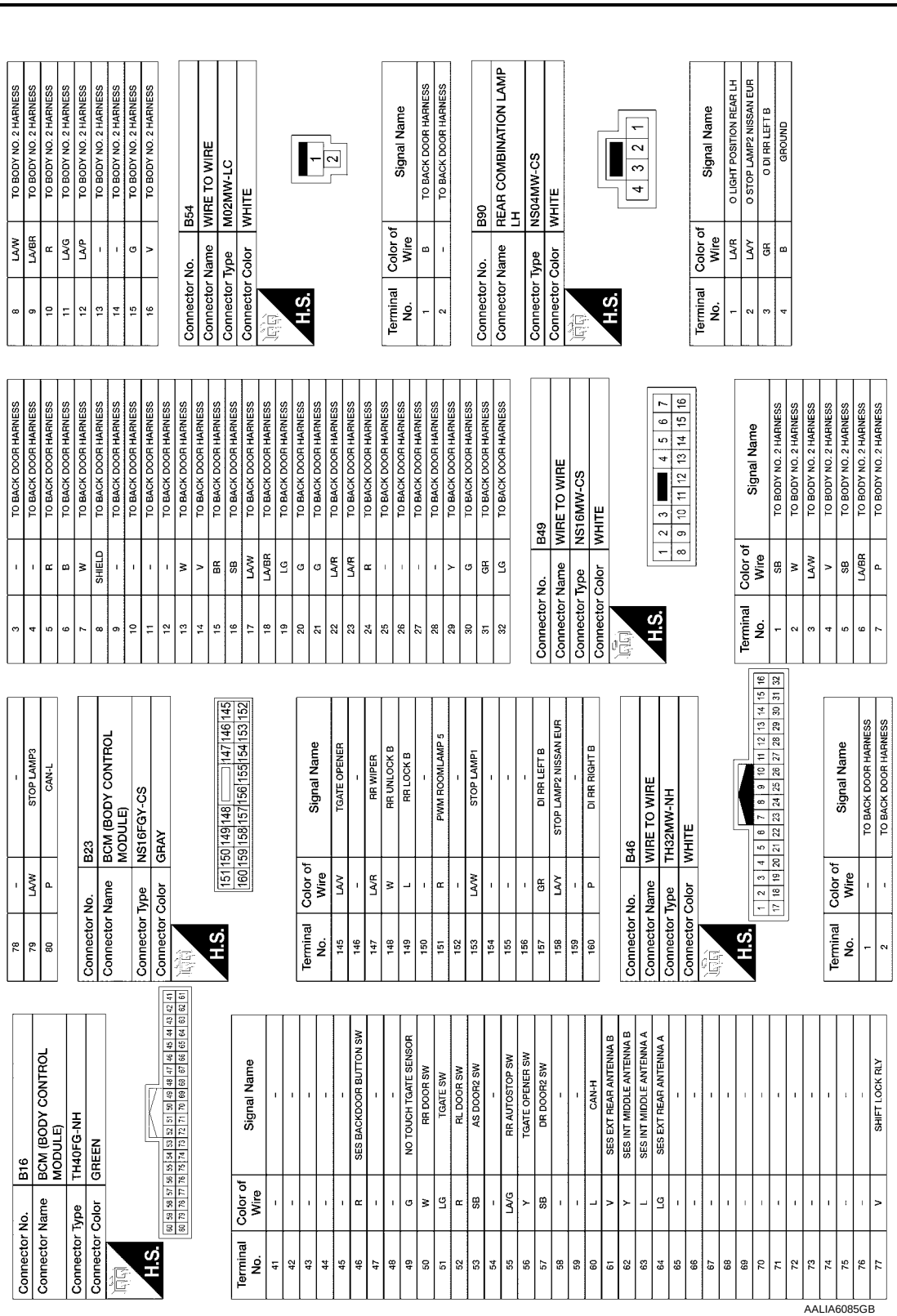
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STOP LAMP

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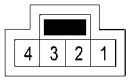
STOP LAMP CONNECTORS



STOP LAMP CONNECTORS

Connector No.	B102
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS
Connector Color	WHITE

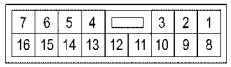
H.S.



Terminal No.	Color of Wire	Signal Name
1	LA/BR	O LIGHT POSITION REAR RH
2	LA/Y	O STOP LAMP 1
3	LA/V	O DI RR RIGHT B
4	B	GROUND

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

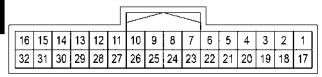


Terminal No.	Color of Wire	Signal Name
1	GR	TO BODY HARNESS
2	W	TO BODY HARNESS
3	LA/Y	TO BODY HARNESS
4	V	TO BODY HARNESS
5	SB	TO BODY HARNESS
6	LA/BR	TO BODY HARNESS
7	LA/V	TO BODY HARNESS
8	L	TO BODY HARNESS
9	Y	TO BODY HARNESS
10	R	TO BODY HARNESS
11	V	TO BODY HARNESS
12	LG	TO BODY HARNESS
13	L	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	LA/GR	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS

AALIA6086GB

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D503
Connector Name	HIGH-MOUNTED STOP LAMP
Connector Type	TK02MW
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	O STOP LAMP 3
2	B	GROUND

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

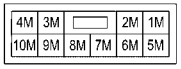
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE

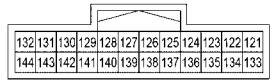
H.S.



Terminal No.	Color of Wire	Signal Name
1M	–	–
2M	–	–
3M	–	–
4M	–	–
5M	V	BATTERY
6M	Y	O LIGHT POSITION REAR LH
7M	–	–
8M	–	–
9M	–	–
10M	–	–

Connector No.	E29
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
121	–	–
122	–	–
123	–	–
124	–	–
125	LG	BRAKE SW2
126	W	BRAKE SW1
127	–	–
128	–	–
129	–	–
130	–	–
131	–	–
132	Y	BUZZER (WITH I-KEY)
133	–	–
134	–	–
135	BR	DI FR LEFT E
136	GR	DI FR RIGHT E
137	–	–
138	–	–
139	G	STCUT RL
140	–	–
141	–	–
142	–	–
143	–	–
144	–	–

STOP LAMP CONNECTORS

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

H.S.

3	4
1	2

Terminal No.	Color of Wire	Signal Name
1	V	BATTERY
2	LG	I BRAKE SW2
3	L	IGNITION
4	W	STOP LAMP SWITCH OUTPUT

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Type	NH24FG-J
Connector Color	GREEN

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	V	SENSOR GROUND
2	LG	I BRAKE SW2
3	P	CAN-L
4	L	CAN-H
5	B	SENSOR GROUND
6	LG	I BRAKE SW2
7	P	CAN-L
8	L	CAN-H
9	W	SENSOR GROUND
10	Y	STOP LAMP SWITCH
11	P	CAN-L
12	L	CAN-H
13	-	-
14	R	STOP LAMP SWITCH
15	P	CAN-L
16	L	CAN-H

17	BR	EVAP CONTROL SYSTEM PRESSURE SENSOR
18	-	-
19	P	CAN-L
20	L	CAN-H
21	L	EVAP CONTROL SYSTEM PRESSURE SENSOR
22	-	-
23	-	-
24	-	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

167	166	165	164		163	162	161
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	PWR ECU
162	SB	PWM ROOMLAMP 1
163	L	AS LOCK OR UNLOCK D
164	-	-
165	V	DR OR FR LOCK D
166	-	-
167	LA/V	PWR DOORLOCK1
168	BG	PWR FLASHERS
169	GR	PWR STOP LAMP
170	B	GND1
171	B	GND2
172	G	FR OR DR UNLOCK D
173	-	-
174	-	-
175	R	PWR DOORLOCK2
176	LG	PWR WIPER

Connector No.	M68
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

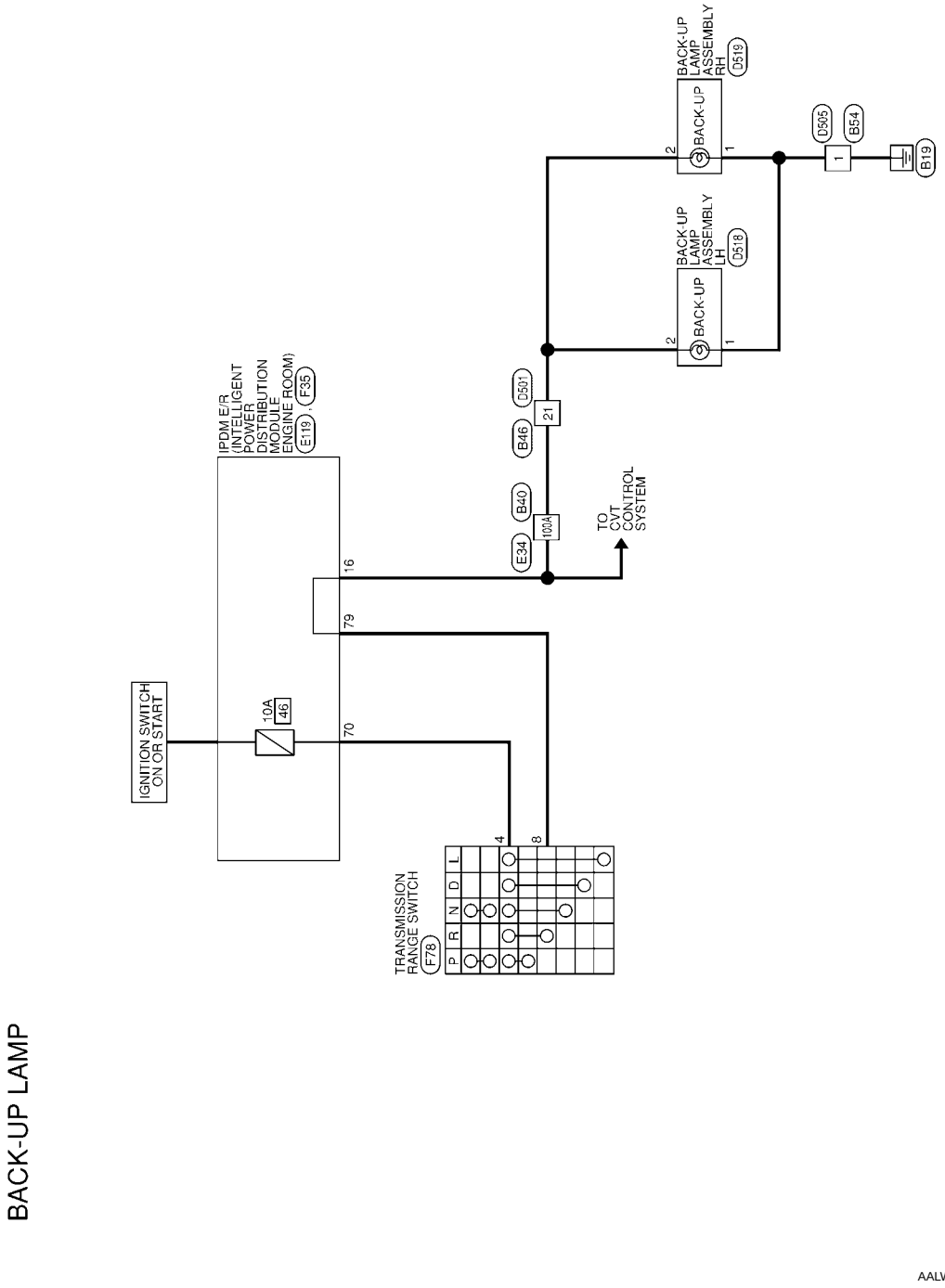
Terminal No.	Color of Wire	Signal Name
1R	V	ILLUMINATION +
2R	G	IGNITION
3R	V	BATTERY
4R	-	-
5R	-	-
6R	LA/L	ACCESSORY
7R	LA/V	BATTERY
8R	-	-
9R	-	-
10R	GR	BATTERY
11R	-	-
12R	-	-
13R	-	-
14R	W	BATTERY
15R	W	BATTERY
16R	GR	ACCESSORY

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BACK-UP LAMP

Wiring Diagram

INFOID:0000000015191409



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BACK-UP LAMP CONNECTORS

Connector No.	B40
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-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

Terminal No.	Color of Wire	Signal Name
1	–	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS
3	–	TO BACK DOOR HARNESS
4	–	TO BACK DOOR HARNESS
5	R	TO BACK DOOR HARNESS
6	B	TO BACK DOOR HARNESS
7	W	TO BACK DOOR HARNESS
8	SHIELD	TO BACK DOOR HARNESS
9	–	TO BACK DOOR HARNESS
10	–	TO BACK DOOR HARNESS
11	–	TO BACK DOOR HARNESS
12	–	TO BACK DOOR HARNESS
13	W	TO BACK DOOR HARNESS
14	V	TO BACK DOOR HARNESS
15	BR	TO BACK DOOR HARNESS
16	SB	TO BACK DOOR HARNESS
17	LA/W	TO BACK DOOR HARNESS
18	LA/BR	TO BACK DOOR HARNESS
19	LG	TO BACK DOOR HARNESS
20	G	TO BACK DOOR HARNESS
21	G	TO BACK DOOR HARNESS
22	LA/R	TO BACK DOOR HARNESS
23	LA/R	TO BACK DOOR HARNESS
24	R	TO BACK DOOR HARNESS
25	–	TO BACK DOOR HARNESS
26	–	TO BACK DOOR HARNESS
27	–	TO BACK DOOR HARNESS
28	–	TO BACK DOOR HARNESS
29	Y	TO BACK DOOR HARNESS
30	G	TO BACK DOOR HARNESS
31	GR	TO BACK DOOR HARNESS
32	LG	TO BACK DOOR HARNESS

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR HARNESS
2	–	TO BACK DOOR HARNESS

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BACK-UP LAMP CONNECTORS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	–	TO BODY HARNESS
5	R	TO BODY HARNESS
6	B	TO BODY HARNESS
7	W	TO BODY HARNESS
8	V	TO BODY HARNESS
9	–	TO BODY HARNESS
10	–	TO BODY HARNESS
11	–	TO BODY HARNESS
12	–	TO BODY HARNESS
13	G	TO BODY HARNESS
14	LA/GR	TO BODY HARNESS
15	LA/W	TO BODY HARNESS
16	LA/LG	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	LA/R	TO BODY HARNESS
19	W	TO BODY HARNESS
20	–	TO BODY HARNESS
21	G	TO BODY HARNESS
22	LA/Y	TO BODY HARNESS
23	P	TO BODY HARNESS
24	BR	TO BODY HARNESS
25	–	TO BODY HARNESS
26	–	TO BODY HARNESS
27	–	TO BODY HARNESS
28	–	TO BODY HARNESS
29	V	TO BODY HARNESS
30	G	TO BODY HARNESS
31	BG	TO BODY HARNESS
32	LG	TO BODY HARNESS

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	–	TO BODY HARNESS

Connector No.	D518
Connector Name	BACK-UP LAMP ASSEMBLY LH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1	2	3

Terminal No.	Color of Wire	Signal Name
1	GR	GROUND
2	G	O LIGHT REVERSE LAMP
3	LA/Y	O LIGHT POSITION REAR LH

Connector No.	D519
Connector Name	BACK-UP LAMP ASSEMBLY RH
Connector Type	NS03MW-CS
Connector Color	WHITE

H.S.

1	2	3

Terminal No.	Color of Wire	Signal Name

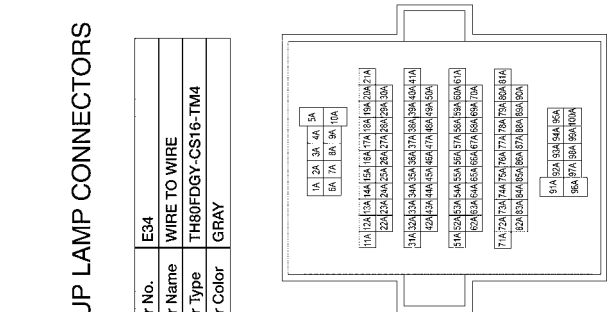
1	GR	GROUND
2	L	O LIGHT POSITION REAR LH
3	LA/R	O LIGHT POSITION REAR RH

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BACK-UP LAMP CONNECTORS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

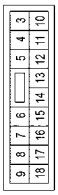
H.S.



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

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
3	P	IGN NOT COLUMN LOCK
4	Y	LIGHT POSITION REAR LH
5	–	–
6	–	–
7	–	–
8	BR	ACTUATOR4 CABIN (3FB4)
9	L	LO HORN RLY
10	–	–
11	V	IGN AIRBAG
12	B	SIGNAL GROUND
13	–	–
14	–	–
15	–	–
16	G	LIGHT REVERSE LAMP
17	W	LIGHT POSITION REAR RH
18	–	–

Connector No.	F35
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

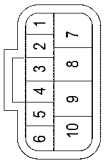
Terminal No.	Color of Wire	Signal Name
65	–	–
66	W	ACTUATOR1 1 (3FB)
67	V	LI ECM ACT5 DRIVER
68	–	–
69	–	–
70	R	IGN AT LPG
71	Y	IGN REVERSE SW AC VALVE
72	LG	ACTUATOR5 (3FBA)
73	G	ACTUATOR1 2 (3FB)
74	–	–
75	R	ACTUATOR3 (3FB3)
76	P	LI FUEL PUMP DRIVER
77	–	–
78	BR	ACTUATOR2 (3FB2)
79	G	LI LIGHT REVERSE SW
80	–	–

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BACK-UP LAMP CONNECTORS

Connector No.	F78
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	YDX06FB-HS4
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	–
2	Y	D RANGE SW
3	–	–
4	R	VIGN
5	V	P RANGE SW
6	SB	L RANGE SW
7	Y	IGN AT LPG
8	G	R RANGE SW
9	R	N RANGE SW
10	BG	LI NP SW

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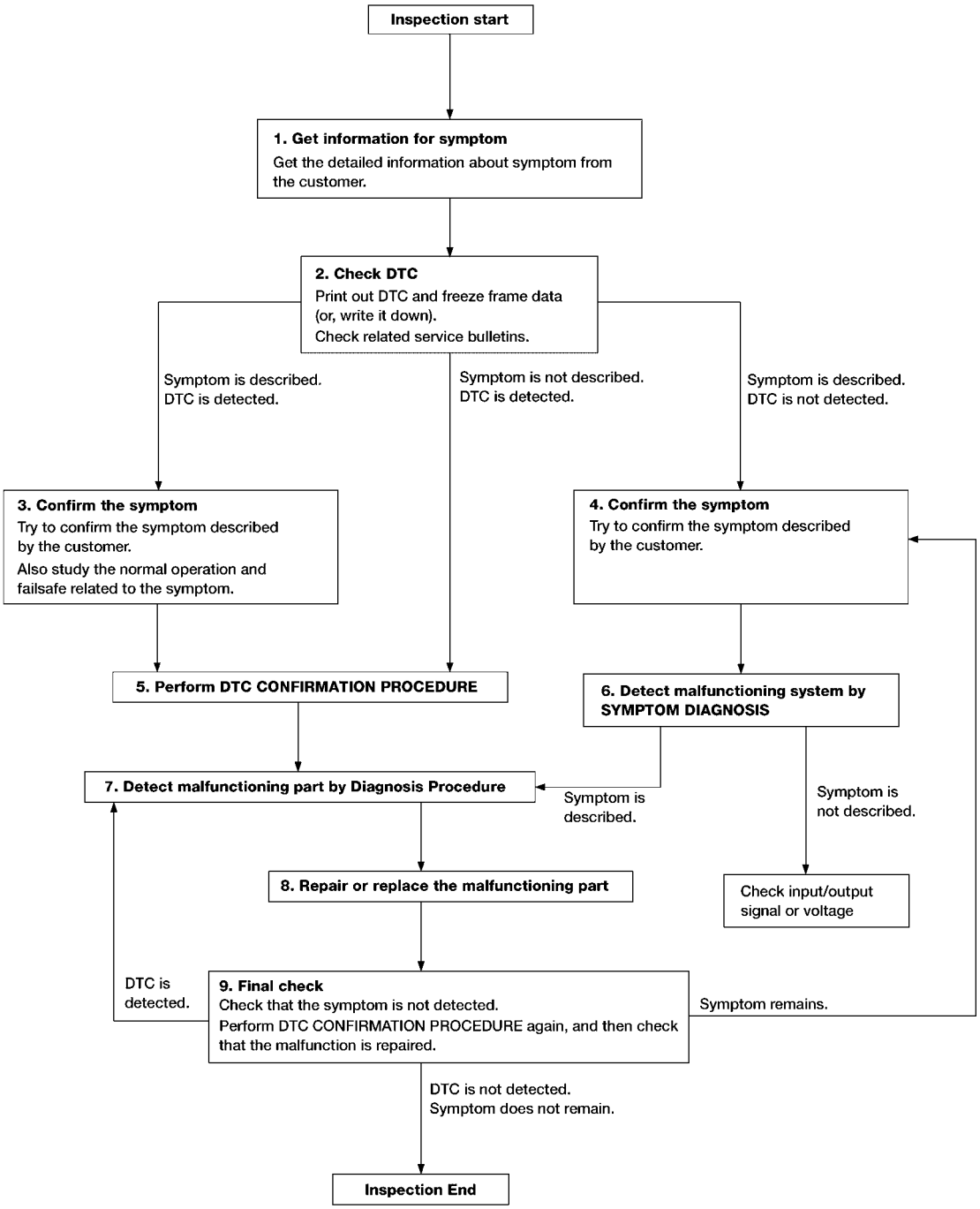
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000014623209

OVERALL SEQUENCE



ALAIA0158GB

DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-47, "DTC Inspection Priority Chart" (BCM) or PCS-28, "DTC Index" (IPDM E/R), and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-54, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-54, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.
YES-2 >> Symptom remains: GO TO 4.
NO >> Before returning the vehicle to the customer, always erase DTC.

LED HEADLAMP OPERATION INSPECTION

Diagnosis Procedure

INFOID:0000000014623214

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 for the several times. Check that headlamp operates normally each time.
2. In the cool LED status, turn headlamp ON, wait until headlamp enters to 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 headlamp for the 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-236, "Symptom Table".

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000015191414

Regarding Wiring Diagram information, refer to BCS-51, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuses are not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)
167	Power door lock battery power supply	5 (20A)
168	Turn signal/hazard battery power supply	1 (15A)
169	Stop lamp battery power supply	10 (10A)
175	Power door lock2 battery power supply	3 (20A)
176	Rear wiper battery power supply	4 (15A)

Is the fuse blown?

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

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M20.
2. Check voltage between BCM connector M20 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M20	161	—	Battery voltage
	167		
	168		
	169		
	175		
	176		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	170	—	Yes
	171		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

OPTICAL SENSOR

Component Function Check

INFOID:0000000014623217

1.CHECK OPTICAL SENSOR SIGNAL BY CONSULT

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

Monitor item	Condition		Voltage (Approx.)
OPTICAL SENSOR	Optical sensor	When illuminating	3.1 V or more *
		When shutting off light	0.6 V or less

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

Is the inspection result normal?

YES >> Optical sensor is normal.
NO >> Refer to EXL-213, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623218

1.CHECK OPTICAL SENSOR POWER SUPPLY INPUT

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

(+)		(–)	Voltage (Approx.)
Optical sensor			
Connector	Terminal		
M13	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 and ground.

(+)		(–)	Voltage (Approx.)
Optical sensor			
Connector	Terminal		
M13	3	Ground	0 V

Is the inspection result normal?

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

3.CHECK OPTICAL SENSOR SIGNAL OUTPUT

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

(+)		(–)	Condition		Voltage (Approx.)
Optical sensor					
Connector	Terminal				
M13	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-120, "Removal and Installation".

4. CHECK OPTICAL SENSOR (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	1	M18	12	Yes

Is the inspection result normal?

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

5. CHECK OPTICAL SENSOR SHORT CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor		Ground	Continuity
Connector	Terminal		
M13	1		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK OPTICAL SENSOR GROUND (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	3	M18	30	Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

7. CHECK OPTICAL SENSOR SIGNAL (OPEN) CIRCUIT

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

Optical sensor		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M13	2	M18	19	Yes

Is the inspection result normal?

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

8. CHECK OPTICAL SENSOR (SHORT) CIRCUIT

Check continuity between optical sensor harness connector and ground.

Optical sensor		Ground	Continuity
Connector	Terminal		
M13	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

HAZARD SWITCH

Component Function Check

INFOID:0000000014623219

1.CHECK HAZARD SWITCH SIGNAL BY CONSULT

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

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

Is the inspection result normal?

YES >> Hazard switch circuit is normal.
NO >> Refer to EXL-216, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623220

1.CHECK HAZARD SWITCH SIGNAL INPUT

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

(+)		(–)	Voltage (Approx.)
Hazard switch			
Connector	Terminal		
M26	2	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK HAZARD SWITCH SIGNAL (OPEN) CIRCUIT

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

Hazard switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M26	2	M18	11	Yes

Is the inspection result normal?

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

3.CHECK HAZARD SWITCH SIGNAL (SHORT) CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch		Ground	Continuity
Connector	Terminal		
M26	2		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace harness.

4. CHECK HAZARD SWITCH GROUND (OPEN) CIRCUIT

Check continuity between hazard switch harness connector and ground.

Hazard switch		Ground	Continuity
Connector	Terminal		
M26	3		Yes

Is the inspection result normal?

YES >> Replace hazard switch. Refer to EXL-122, "Removal and Installation".
NO >> Repair or replace harness.

TURN SIGNAL LAMP CIRCUIT

Description

INFOID:0000000014623221

The BCM monitors inputs from the combination switch (lighting and turn signal switch) to determine when to activate the turn signals. The BCM outputs voltage direction to the left and right turn signals during turn signal operation or both during hazard warning operation. The BCM sends a turn signal indicator request to the combination meter via the CAN communication lines.
The BCM performs the fast flasher operation (fail-safe) if any bulb or harness of the turn signal lamp circuit is open.
NOTE:
Turn signal lamp blinks at normal speed when using the hazard warning lamp.

Component Function Check

INFOID:0000000014623222

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 lamps (LH) ON
RH : Turn signal lamps (RH) ON
Off : Turn signal lamps OFF

Is the inspection result normal?

YES >> Turn signal lamp circuit is normal.
NO >> Refer to EXL-218, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000014623223

Regarding Wiring Diagram information, refer to EXL-180, "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.

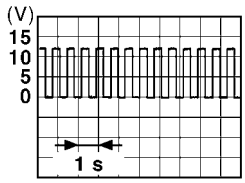
Is the bulb OK?

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

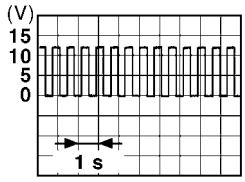
2.CHECK TURN SIGNAL LAMP OUTPUT VOLTAGE

1. Turn the ignition switch OFF.
2. Disconnect the front combination lamp harness connector, door mirror harness connector or the side turn signal harness connector or the rear combination lamp harness connector in question.
3. Turn the ignition switch ON.
4. While the turn signal is operating, check the voltage between the front combination lamp harness connector and ground.

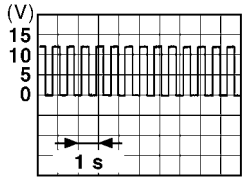
(+)		(–)	Voltage (Approx.)
Connector	Terminal		

LH	E105	1	Ground	 PKID0926E
RH	E103			

5. While the turn signal is operating, check the voltage between the door mirror harness connector and ground.

(+)			(–)	Voltage (Approx.)
Connector		Terminal		
LH	D14 (without automatic drive positioner) D16 (with automatic drive positioner)	13	Ground	 PKID0926E
RH	D107 (without automatic drive positioner) D106 (with automatic driver positioner)			

6. While the turn signal is operating, check the voltage between the rear combination lamp harness connector and ground.

(+)			(–)	Voltage (Approx.)
Connector		Terminal		
LH	B90	3	Ground	 PKID0926E
RH	B102			

Are the inspection results normal?

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

3. CHECK TURN SIGNAL LAMP CIRCUIT FOR OPEN

1. Turn the ignition switch OFF.
2. Disconnect BCM harness connector E29, M18 or B23.
3. Check continuity between the BCM harness connector E29 and the front combination lamp harness connector.

BCM			Front combination lamp		Continuity
Connector		Terminal	Connector	Terminal	
LH	E29	135	E105	1	Yes
RH		136	E103		

4. Check continuity between the BCM harness connector B23 and the door mirror harness connector.

BCM			Door mirror		Continuity
Connector		Terminal	Connector	Terminal	
LH	M18	2	D14	13	Yes
RH		3	D107		

5. Check continuity between the BCM harness connector B23 and the rear combination lamp harness connector.

BCM			Rear combination lamp		Continuity
Connector		Terminal	Connector	Terminal	
LH	B23	157	B90	3	Yes
RH		160	B102		

Are the inspection results normal?

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

4. CHECK TURN SIGNAL LAMP SHORT CIRCUIT

1. Check continuity between the BCM harness connector E29 and ground.

BCM			Ground	Continuity
Connector		Terminal		
LH	E29	135		No
RH		136		

2. Check continuity between the BCM harness connector M18 and ground.

BCM			Ground	Continuity
Connector		Terminal		
LH	B18	2		No
RH		3		

3. Check continuity between the BCM harness connector M23 and ground.

BCM			Ground	Continuity
Connector		Terminal		
LH	B23	157		No
RH		160		

Are the inspection results normal?

YES >> Replace BCM. Refer to BCS-73, "Removal and Installation".
NO >> Repair or replace the harness or connectors.

5. CHECK TURN SIGNAL LAMP GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Check continuity between the front combination lamp harness connector, the door mirror connector or the rear combination lamp harness connector in question and ground.

Front combination lamp			(–)	Continuity
Connector		Terminal		
LH	E105	2	Ground	Yes
RH	E103			

3. Check continuity between the door mirror harness connector and ground.

Door mirror		(–)	Continuity
Connector	Terminal		

LH	D14 (without automatic drive positioner) D16 (with automatic drive positioner)	14	Ground	Yes
RH	D107 (without automatic drive positioner) D106 (with automatic driver positioner)			

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

Rear combination lamp			(–)	Continuity
Connector		Terminal		
LH	B90	4	Ground	Yes
RH	B102			

Are the inspection results normal?

YES >> Replace the malfunctioning lamp.
NO >> Repair or replace the harness or connectors.

B121A FRONT FOG LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623224

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B121A	FR FOG LAMP LH PWR SPLY CIRC [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R fog lamp supply circuit (terminal 51)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Fog lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result”“IPDM E/R”.
3. Check DTC.

Is DTC B121A detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-93, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623225

1.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	51		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Fog lamp			Ground	Continuity
Connector		Terminal		
LH	E222	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B1231 DAYTIME RUNNING LIGHT RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623226

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B1231	DTRL RH PWR SPLY CIRC [CIRC SHORT TO GRND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R daytime running lamp supply circuit (terminal 58)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Daytime running lamp RH power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓐ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B1231 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-94, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623227

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	58		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E240	8		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B1256 FRONT FOG LAMP RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623228

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B1256	FR FOG LAMP RH PWR SPLY CIRC [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R fog lamp supply circuit (terminal 57)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Fog lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B1256 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-95, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623229

1.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	57		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FOG LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Fog lamp			Ground	Continuity
Connector		Terminal		
RH	E221	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CB DAYTIME RUNNING LIGHT LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623236

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B02CB	DTRL LH PWR SPLY CIRC [CIRC SHORT TO GRND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R daytime running lamp supply circuit (terminal 49)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Daytime running lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓔ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result”“IPDM E/R”.
3. Check DTC.

Is DTC B02CB detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-96, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623237

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	49		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between fog lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E239	8		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CE HEADLAMP (HI) LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623238

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20CE	O LIGHT HBEAM LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp HI supply circuit (terminal 59)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp HI power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20CE detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-97, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623239

1.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	59		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E239	5		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20CF HEADLAMP (HI) RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623240

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20CF	O LIGHT HBEAM RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp HI supply circuit (terminal 54)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp HI power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓡ CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20CF detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-98, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623241

1.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	54		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK HEAD LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E240	5		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D0 HEADLAMP (LO) LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623242

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D0	O LIGHT LBEAM LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp LO supply circuit (terminal 50)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp LO power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20CF detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-98, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623243

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	50		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E239	6		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D1 HEADLAMP (LO) RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623244

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D1	O LIGHT LBEAM RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R headlamp LO supply circuit (terminal 62)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Headlamp LO power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓐ CONSULT.

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D1 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-100, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623245

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	62		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
RH	E240	6		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D2 PARKING LAMP POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623246

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D2	O LIGHT CLEARANCE FR [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R front parking lamp supply circuit (terminals 56 or 61)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Front parking lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓔ CONSULT.

1. Turn ignition switch ON.
2. Perform “Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D2 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-101, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623247

1.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Disconnect front combination lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R			Ground	Continuity
Connector		Terminal		
LH	E217	56		No
RH	E218	61		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp harness connector and ground.

Front combination lamp			Ground	Continuity
Connector		Terminal		
LH	E239	9		No
		10		
RH	E240	9		
		10		

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D4 TAIL LAMP LH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623248

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D4	O LIGHT POSITION REAR LH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R tail lamp supply circuit (terminal 4)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Tail lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D4 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-103, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623249

1.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Disconnect rear combination lamp (LH), license plate lamps, back up lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E119	4		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between rear combination lamp harness connector and ground.

Rear combination lamp			Ground	Continuity
Connector		Terminal		
LH	B90	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20D5 TAIL LAMP RH POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000014623250

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20D5	O LIGHT POSITION REAR RH [CIRC SHORT TO GROUND]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R tail lamp supply circuit (terminal 17)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- Tail lamp power supply circuit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D5 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-104, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623251

1.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Disconnect rear combination lamp (RH), back up lamp connectors and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E119	17		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK TAIL LAMP SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between rear combination lamp harness connector and ground.

Rear combination lamp			Ground	Continuity
Connector		Terminal		
RH	B102	1		No

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20E2 LED HEADLAMP RH

DTC Logic

INFOID:0000000014623254

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20E2	LED HEADLAMP RH [CMPNENT INTER-NAL MLFNCTN]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R LED headlamp control module supply circuit (terminal 58)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- LED headlamp control module

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D5 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-104, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623255

1.CHECK FRONT COMBINATION LAMP RH SHORT CIRCUIT TO GROUND

1. Disconnect front combination lamp RH connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	58		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP RH SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp RH harness connector and ground.

Front combination lamp RH		Ground	Ground
Connector	Terminal		
E240	8		No

Is the inspection result normal?

YES >> Replace front combination lamp RH. Refer to EXL-247, "Removal and Installation".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

B20E3 LED HEADLAMP LH

DTC Logic

INFOID:0000000014623256

DTC DETECTION LOGIC

DTC	CONSULT name	DTC detecting condition	
B20E3	LED HEADLAMP LH [CMPNENT INTER-NAL MLFNCTN]	Diagnosis condition	When ignition switch is ON
		Signal (terminal)	IPDM E/R tail lamp supply circuit (terminal 49)
		Threshold	—
		Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- IPDM E/R
- LED headlamp control module

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF DIAGNOSTIC RESULT

Ⓔ CONSULT.

1. Turn ignition switch ON.
2. Select “ Self Diagnostic Result” mode of “IPDM E/R”.
3. Check DTC.

Is DTC B20D5 detected?

YES >> Proceed to diagnosis procedure. Refer to EXL-104, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000014623257

1.CHECK FRONT COMBINATION LAMP LH SHORT CIRCUIT TO GROUND

1. Disconnect front combination lamp LH connector and IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E217	49		No

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK FRONT COMBINATION LAMP LH SHORT CIRCUIT TO GROUND

1. Reconnect IPDM E/R connector.
2. Check continuity between front combination lamp LH harness connector and ground.

Front combination lamp LH		Ground	Ground
Connector	Terminal		
E239	8		No

Is the inspection result normal?

YES >> Replace front combination lamp LH. Refer to EXL-247, "Removal and Installation".
NO >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".

SYMPTOM DIAGNOSIS

EXTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000014623258

CAUTION:
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 • LED • Harness between IPDM E/R and headlamp (HI) • Harness between headlamp (HI) and ground • IPDM E/R	Headlamp (HI) circuit Refer to EXL-226, "DTC Logic" (LH) or EXL-227, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** “BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON” Refer to EXL-226, "DTC Logic" (LH) or EXL-227, "DTC Logic" (RH).	
High beam indicator lamp is not turned ON. [Headlamp (HI) is turned ON.]		Combination meter	• Combination meter “Data Monitor”“HI-BEAM IND” • BCM (HEAD LAMP) “Active Test”“HEADLAMP”
Headlamp (LO) is not turned ON.	One side	• Fuse • LED • Harness between IPDM E/R and headlamp lamp (LO) • Harness between headlamp (LO) and ground • IPDM E/R	Headlamp (LO) circuit Refer toEXL-228, "DTC Logic" (LH) or EXL-229, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** “BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON” Refer to EXL-228, "DTC Logic" (LH) or EXL-229, "DTC Logic" (RH).	
Each lamp is not turned ON/OFF with lighting switch AUTO.		• Combination switch • Harness between combination switch and BCM • BCM	Combination switch Refer to BCS-71, "Symptom Table".
		• Optical sensor • Harness between optical sensor and BCM • BCM	Optical sensor Refer to EXL-84, "Component Function Check".
Daytime running light is not turned ON. [Headlamp (HI) is turned ON.]		• Fuse • Harness between IPDM E/R and front combination lamp • IPDM E/R • BCM • ECM • Combination meter	• Daytime running light circuit Refer to EXL-223, "DTC Logic". • BCM (HEADLAMP) “Data Monitor”“ENGINE STATE” • Combination meter “Data Monitor”“PKB SW” • BCM (HEADLAMP) “Active Test”“DAYTIME RUNNING LIGHT”
Parking lamp is not turned ON.		• Fuse • Parking lamp bulb • Harness between IPDM E/R and front combination lamp • IPDM E/R	Parking lamp circuit Refer to EXL-230, "DTC Logic".

Symptom		Possible cause	Inspection item
Front side marker lamp is not turned ON.		• Front side marker lamp bulb • Harness between IPDM E/R and front side marker lamp • Harness between front side marker lamp and ground • IPDM E/R	Front side marker lamp circuit Refer to EXL-230, "DTC Logic".
License plate lamp is not turned ON.		• License plate lamp bulb • Harness between IPDM E/R and license plate lamp • Harness between license plate lamp and ground	License plate lamp circuit Refer to EXL-232, "DTC Logic".
Parking lamp, side marker lamp, tail lamp and license plate lamp are not turned ON.		**Symptom diagnosis** "PARKING, SIDE MARKER, LICENSE PLATE AND TAIL LAMPS ARE NOT TURNED ON" Refer to EXL-241, "Description".	
Tail lamp indicator is not turned ON. (Exterior lamps are turned ON.)		Combination meter	• Combination meter "Data Monitor""LIGHT IND" • BCM (HEADLAMP) "Active Test""TAIL LAMP"
Turn signal lamp does not blink.	Indicator lamp is normal. (Applicable side performs high flasher activation.)	• Turn signal lamp bulb • Door mirror • Harness between BCM and each turn signal lamp • Harness between each turn signal lamp and ground	Turn signal lamp circuit Refer to EXL-218, "Component Function Check".
Turn signal indicator lamp does not blink. (Turn signal lamp is normal.)	One side	Combination meter	—
	Both sides (Always)	• Turn signal indicator lamp signal • BCM • Combination meter	• Combination meter "Data Monitor""TURN IND" • BCM (FLASHER) "Active Test""FLASHER"
	Both sides (Only when activating hazard warning lamp with ignition switch OFF)	• Combination meter power supply and ground circuit • Combination meter	Combination meter Power supply and ground circuit Refer to MWI-62, "COMBINATION METER : Diagnosis Procedure".
• Hazard warning lamp does not activate. • Hazard warning lamp continues activating. (Turn signal is normal.)		• Hazard switch • Harness between hazard switch and BCM • Harness between hazard switch and ground • BCM	Hazard switch circuit Refer to EXL-87, "Component Function Check".
Front fog lamp is not turned ON.	One side	• Front fog lamp bulb • Harness between IPDM E/R and front fog lamp • Harness between front fog lamp and ground • IPDM E/R	Front fog lamp circuit Refer to EXL-222, "DTC Logic" (LH) or EXL-224, "DTC Logic" (RH).
	Both sides	**Symptom diagnosis** "BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON" Refer to EXL-222, "DTC Logic" (LH) or EXL-224, "DTC Logic" (RH).	

NORMAL OPERATING CONDITION

Description

INFOID:0000000014623259

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 caused by the control difference. This is normal.

HIGH BEAM ASSIST SYSTEM

When driving while using the high beam assist system, the headlamp beam may not switch or the beam switching timing may vary according to the ambient environment (the condition of the vehicle ahead, the condition of the road, the position of the vehicle, etc.). This is due to control differences and is not a malfunction.

BOTH SIDE HEADLAMPS (HI) ARE NOT TURNED ON

Description

INFOID:0000000014623260

Both side headlamps (HI) are not turned ON when setting to the lighting switch HI or PASS.

Diagnosis Procedure

INFOID:0000000014623261

1.COMBINATION SWITCH INSPECTION

Check combination switch. Refer to BCS-71, "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

CONSULT
1. Select “HEADLAMP (HI)” in “Data Monitor” mode of “IPDM E/R”.
2. With operating the lighting switch, check the monitor status.

Monitor item	Condition		Monitor status
HEADLAMP (HI)	Lighting switch (2ND)	HI or PASS	On
		LO	Off

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.HEADLAMP (HI) CIRCUIT INSPECTION

Check headlamp (HI) circuit. Refer to EXL-226, "DTC Logic" (LH) or EXL-227, "DTC Logic" (RH).

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Repair or replace the malfunctioning part.

BOTH SIDE HEADLAMPS (LO) ARE NOT TURNED ON

Description

INFOID:0000000014623262

Both side headlamps (LO) are not turned ON in any condition.

Diagnosis Procedure

INFOID:0000000014623263

1.CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-71, "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

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

Monitor item	Condition		Monitor status
HEADLAMP (LO)	Lighting switch	2ND	On
		OFF	Off

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

3.HEADLAMP (LO) CIRCUIT INSPECTION

Check headlamp (LO) circuit. Refer to EXL-228, "DTC Logic" (LH) or EXL-229, "DTC Logic" (RH).

Is the inspection result normal?

YES >> Refer to GI-54, "Intermittent Incident".
NO >> Repair or replace the malfunctioning part.

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

Description

INFOID:0000000014623264

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

Diagnosis Procedure

INFOID:0000000014623265

1.COMBINATION SWITCH INSPECTION

Check combination switch. Refer to BCS-71, "Symptom Table".

Is the combination switch normal?

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

2.CHECK TAIL LAMP REQUEST SIGNAL INPUT

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

Monitor item	Condition		Monitor status
TAIL LAMP	Lighting switch	1ST	On
		OFF	Off

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

BOTH SIDE FRONT FOG LAMPS ARE NOT TURNED ON

Description

INFOID:0000000014623266

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

Diagnosis Procedure

INFOID:0000000014623267

1.CHECK COMBINATION SWITCH

Check combination switch. Refer to BCS-71, "Symptom Table".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning part.

2.CHECK FRONT FOG LAMP REQUEST SIGNAL INPUT

CONSULT
1. Select “FRONT FOG LAMP 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
FRONT FOG LAMP REQ	Front fog lamp switch (With lighting switch 2ND)	ON	On
		OFF	Off

Is the item status normal?

YES >> Replace IPDM E/R. Refer to PCS-46, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-73, "Removal and Installation".

PERIODIC MAINTENANCE

HEADLAMP AIMING ADJUSTMENT

Inspection

INFOID:0000000014623268

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's 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.)

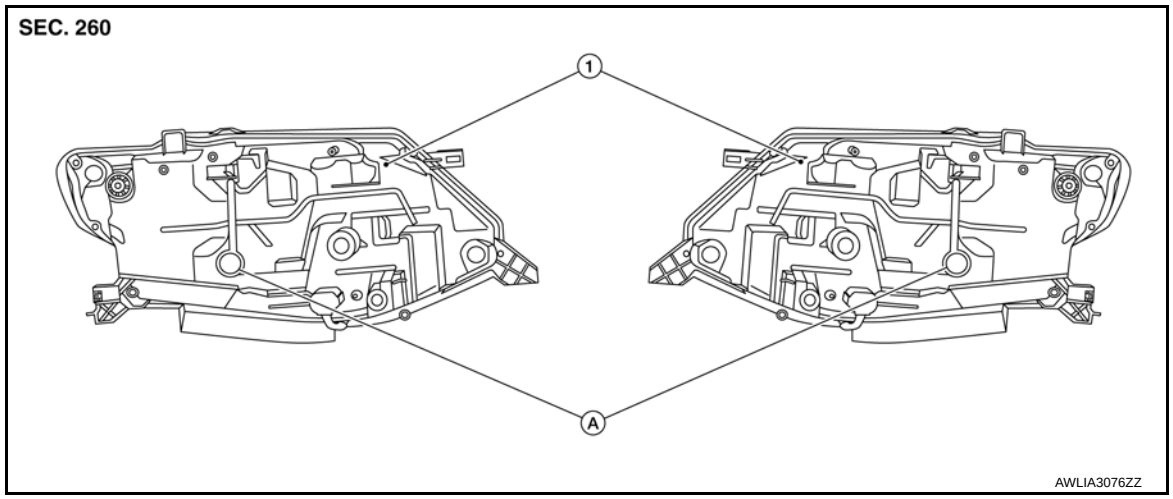
- Place a driver or equivalent weight of 68.5 kg (150 lb) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Aim each headlamp individually and ensure other headlamp 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

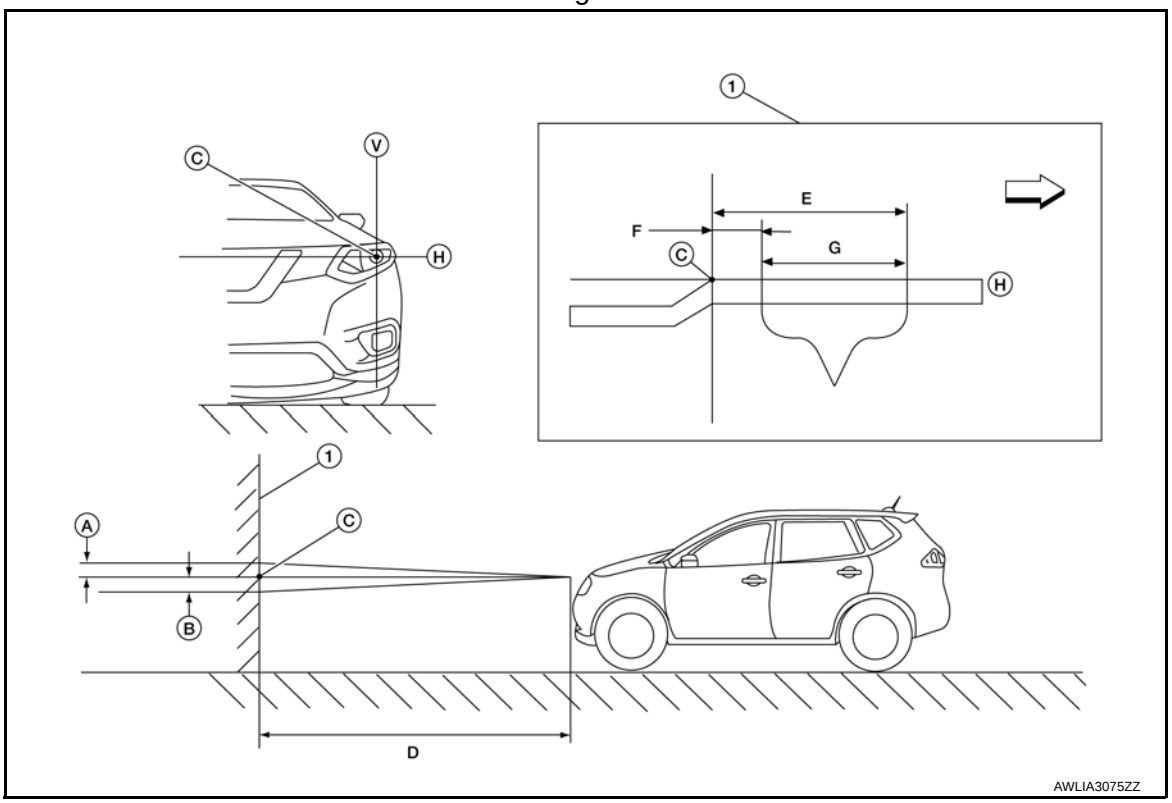


1. Front combination lamp (view from rear)
A. Headlamp HI/LO (UP/DOWN) adjustment screw

Aiming Adjustment Procedure

INFOID:0000000014623269

Aiming Chart



1.	Adjustment screen	A.	Highest cutoff line height	B.	Lowest cutoff line height
C.	Headlamp bulb center (H-V point)	D.	Distance of headlamp aiming screen from vehicle 7.62 m (25 ft)	E.	Maximum aim evaluation distance from vertical center on aiming screen 399 mm (3°R)
F.	Minimum aim evaluation distance from vertical center on aiming screen 133 mm (1°R)	G.	Aim evaluation area	H.	Horizontal aiming evaluation line
V.	Vertical aiming evaluation line	⇦	Right		

A (Highest cutoff line height)	**7.0 mm (0.28 in)**	**0.05° up**
B (Lowest cutoff line height)	**7.0 mm (0.28 in)**	**0.05° 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 a tape etc. The lens is made of resin.
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 (D) : 7.62 m (25 ft)

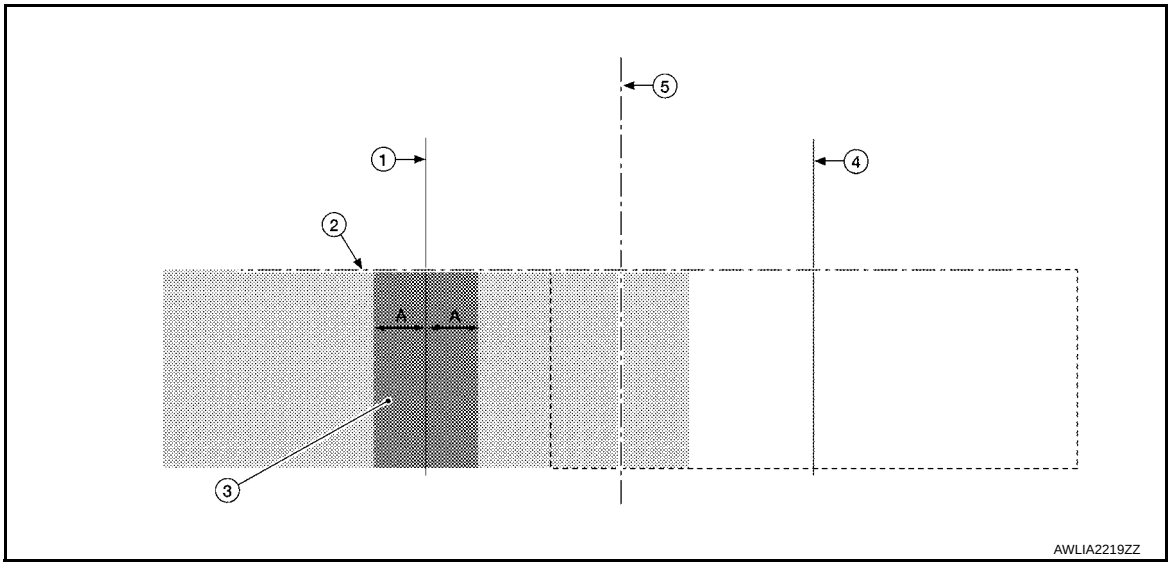
5. Start the engine. Turn the headlamp on.
6. Determine the preferred vertical aim range dimensions, using the aiming chart.
7. Measure the projected beam within the aim evaluation segment on the screen.
8. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

FRONT FOG LAMP AIMING ADJUSTMENT

Aiming Adjustment Procedure

INFOID:0000000014623270

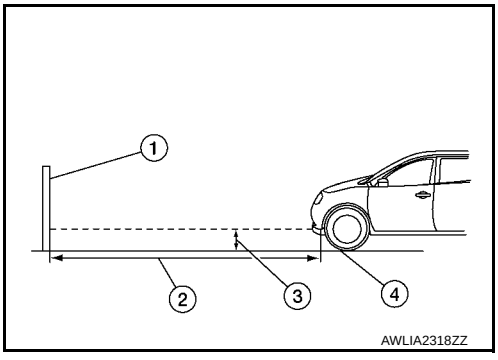
Aiming Chart



1.	Vertical center line of front fog lamp (LH)	2.	Lamp center above ground	3.	Front fog lamp high intensity area (LH)
4.	Vertical center line of front fog lamp (RH)	5.	Vertical center axis	A.	100mm (4in)

NOTE:
- (LH) Front fog lamp aiming specifications shown, (RH) similar.
- Check the following conditions before performing the aiming adjustment.
- Keep all tires inflated to correct pressure.
- Place vehicle on level ground.
- See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have the driver or equivalent weight placed in driver seat.
- When performing adjustment, if necessary, cover the headlamps and opposite front fog lamp.

1. Set the distance between the screen and the center of the front fog lamp lens as shown.
   (1) Aiming screen or a matte white surface
   (2) 7.62 m (25 ft)
   (3) Floor to center of front fog lamp lens
   (4) Floor



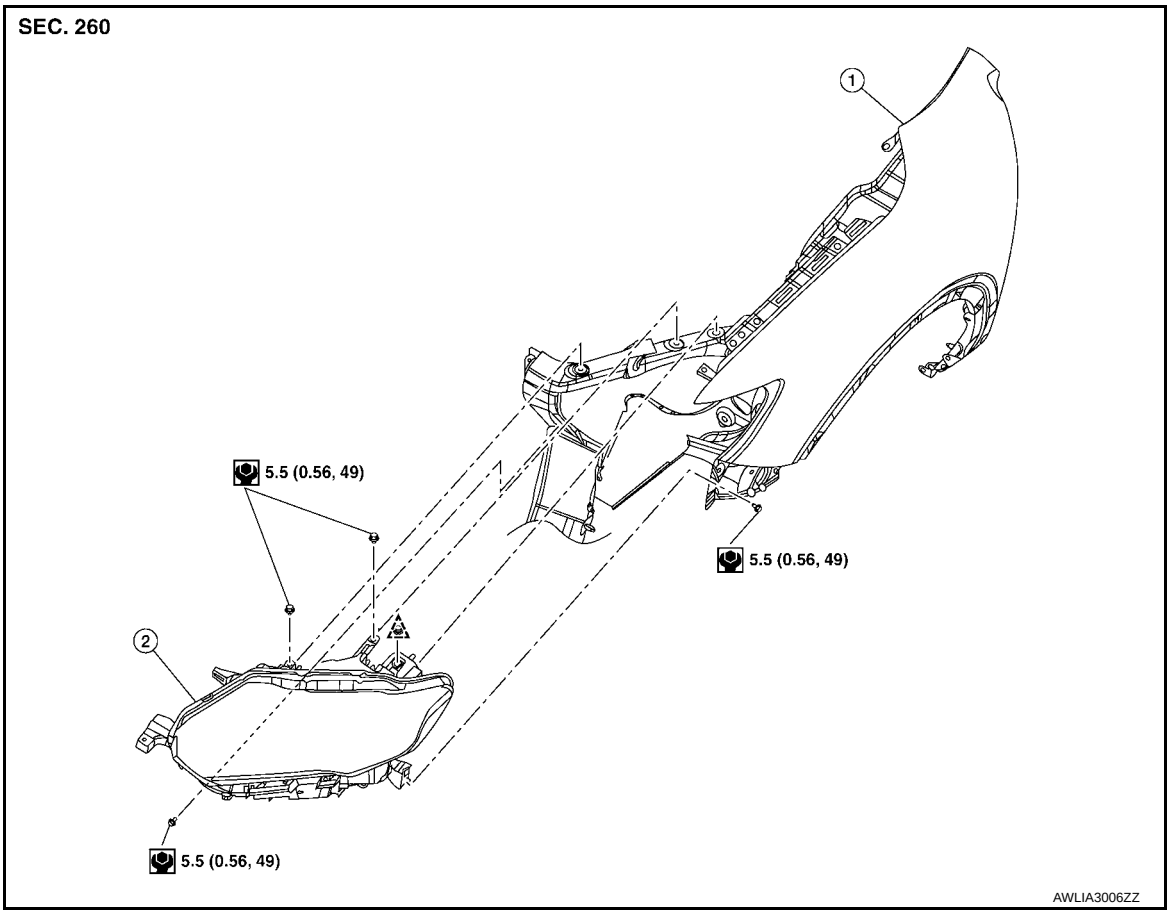
2. Turn front fog lamps ON.
3. Access adjusting screw from underneath front bumper fascia. Adjust front fog lamps using adjusting screw so that the top edge of the high intensity zone is at the front fog lamp centers above ground.

REMOVAL AND INSTALLATION

FRONT COMBINATION LAMP

Exploded View

INFOID:0000000014623271



1. Front fender
2. Front combination lamp
Clip

Removal and Installation

INFOID:0000000014623272

REMOVAL

1. Remove front bumper fascia. Refer to EXT-25, "Exploded View".
2. Remove front combination lamp bolts and clip.
3. Pull front combination lamp forward.
4. Disconnect the harness connectors from the front combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

NOTE:

After installation, perform headlamp aiming adjustment. Refer to EXL-243, "Inspection".

Bulb Replacement

INFOID:0000000014623273

HEADLAMP (LOW BEAM) BULB

The headlamp (low beam) bulb is not serviced separately. Refer to EXL-247, "Removal and Installation".

HEADLAMP (HIGH BEAM) BULB

The headlamp (high beam) bulb is not serviced separately. Refer to EXL-247, "Removal and Installation".

SIDE MARKER LAMP BULB

The side marker lamp bulb is not serviced separately. Refer to EXL-247, "Removal and Installation".

TURN SIGNAL LAMP BULB

Removal

1. Rotate bulb socket counterclockwise and remove from the front combination lamp.
2. Remove the bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

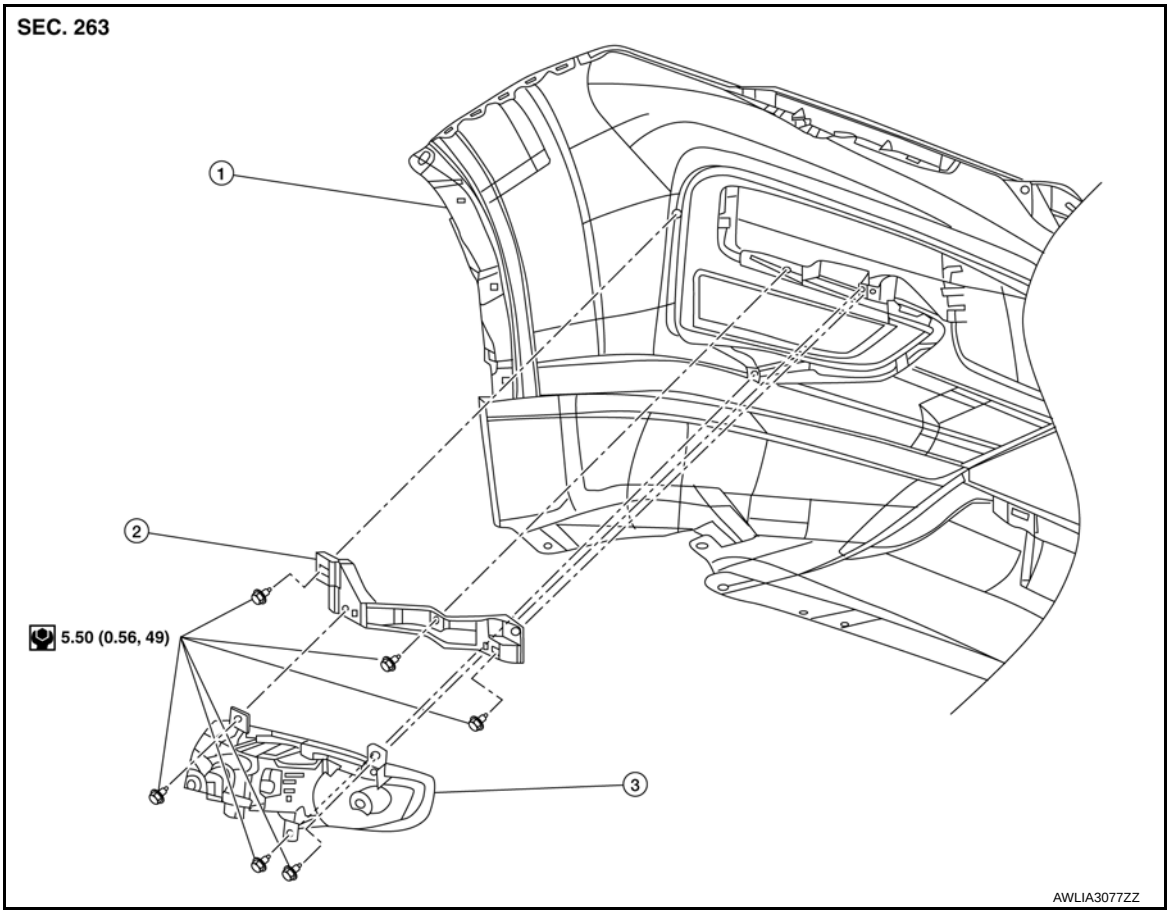
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

FRONT FOG LAMP

Exploded View

INFOID:0000000014623274



1. Front bumper fascia
2. Front fog lamp bracket
3. Front fog lamp assembly

Removal and Installation

INFOID:0000000014623275

REMOVAL

1. Partially remove front fender protector. Refer to EXT-40, "FENDER PROTECTOR : Exploded View".
2. Disconnect the harness connector from the front fog lamp.
3. Remove front fog lamp bolts and front fog lamp.

INSTALLATION

Installation in the reverse order of removal.

NOTE:

After installation, perform front fog lamp aiming adjustment. Refer to EXL-246, "Aiming Adjustment Procedure".

Bulb Replacement

INFOID:0000000014623276

WARNING:

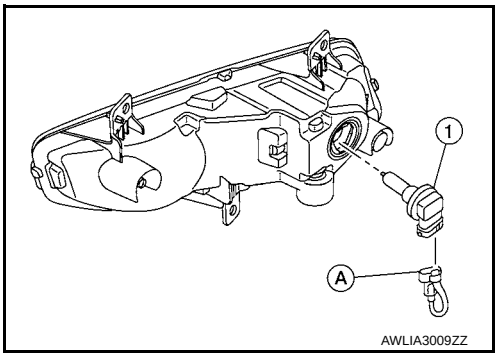
Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.

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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

REMOVAL

1. Partially remove front fender protector. Refer to EXT-40, "FENDER PROTECTOR : Exploded View".
2. Disconnect the harness connector (A) from the front fog lamp.
3. Rotate bulb (1) counterclockwise and remove.



INSTALLATION

Installation is in the reverse order of removal.

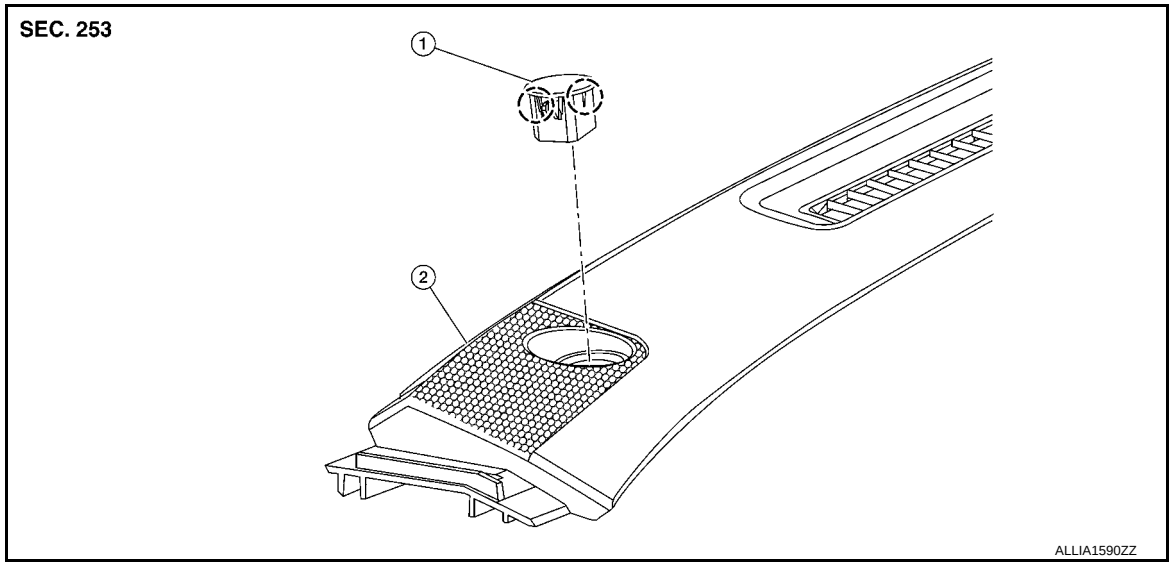
CAUTION:

After installing the bulb, install the bulb socket securely for watertightness.

OPTICAL SENSOR

Exploded View

INFOID:0000000014623277



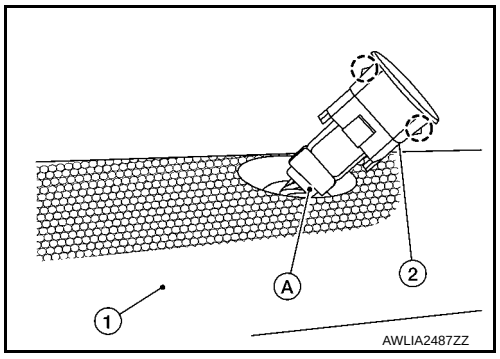
1. Optical sensor
2. Defroster grille
◌ Pawl

Removal and Installation

INFOID:0000000014623278

REMOVAL

1. Release the optical sensor (2) pawls from defroster grille (1) using a suitable tool.
   ◌: Pawl
2. Disconnect the harness connector (A) from the optical sensor (2) and remove.



INSTALLATION

Installation is in the reverse order of removal.

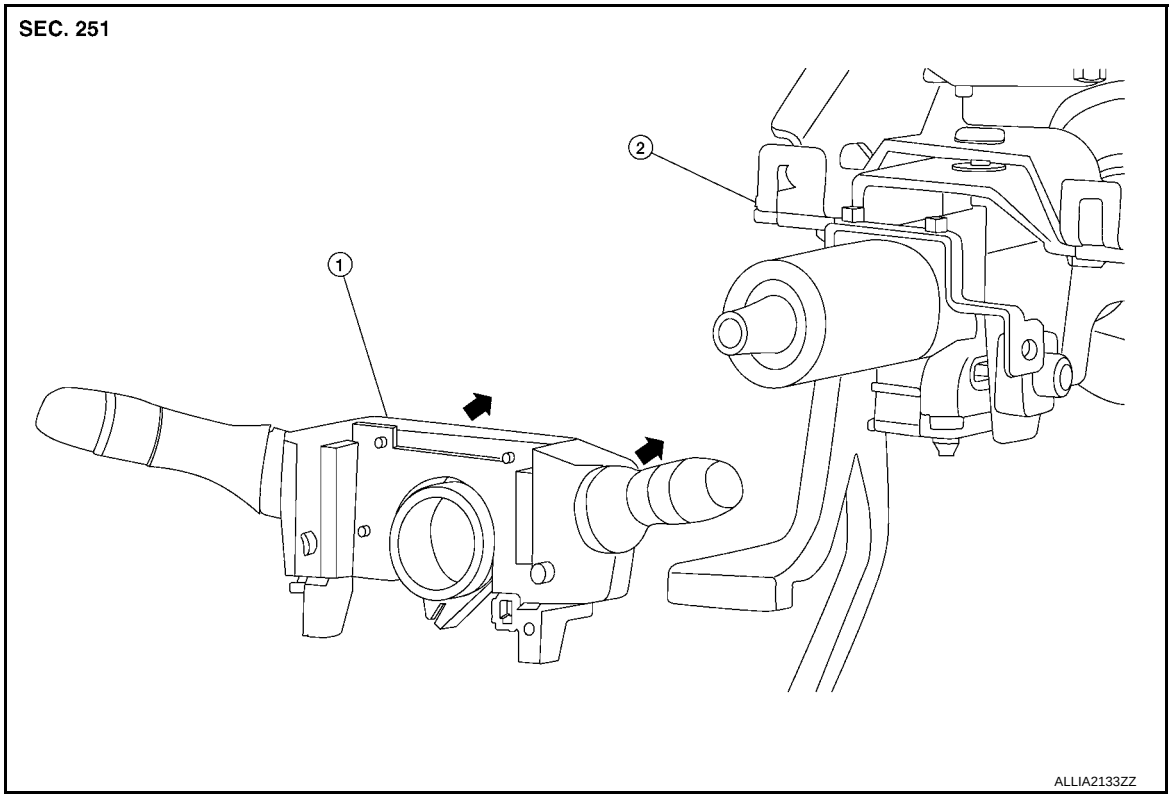
NOTE:

Confirm that optical sensor is locked into defroster grille and that the harness connector is locked into the optical sensor connector body.

COMBINATION SWITCH

Exploded View

INFOID:0000000014623279



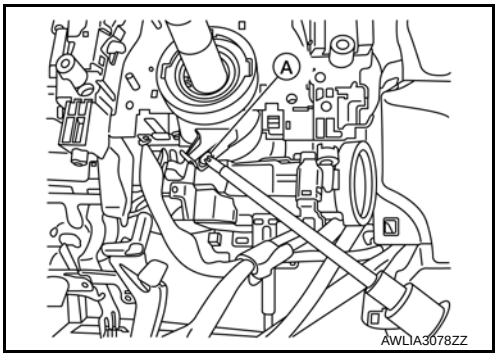
1. Combination switch
2. Steering column

Removal and Installation

INFOID:0000000014623280

REMOVAL

1. Remove the steering angle sensor. Refer to BRC-208, "Removal and Installation".
2. Disconnect harness connector from combination switch.
3. Remove screw (A).



4. Remove combination switch.

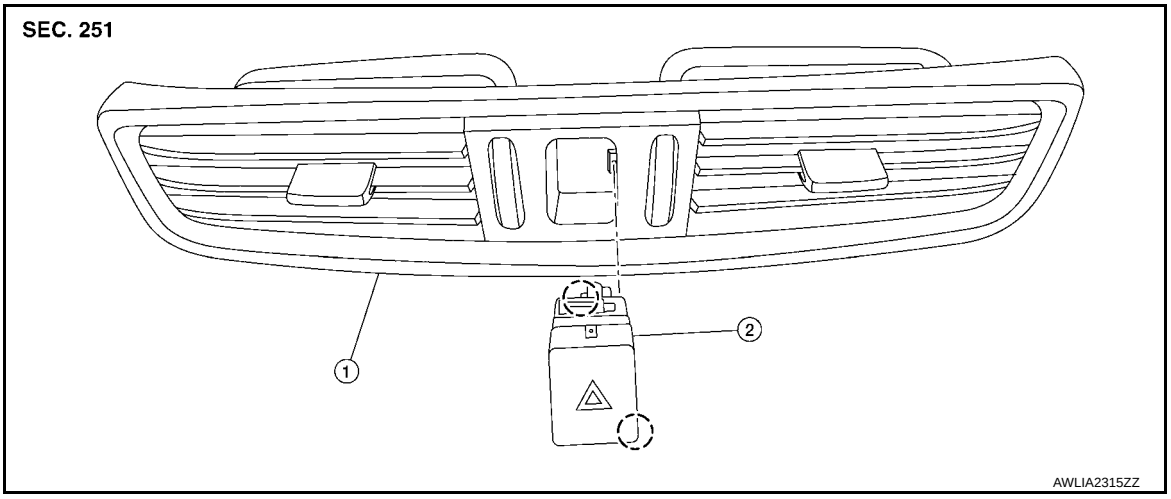
INSTALLATION

Installation is in the reverse order of removal.

HAZARD SWITCH

Exploded View

INFOID:0000000014623281



1. Center ventilator grille
2. Hazard switch
Pawl

Removal and Installation

INFOID:0000000014623282

REMOVAL

1. Remove center ventilator grille. Refer to VTL-13, "CENTER VENTILATOR GRILLE : Removal and Installation".
2. Release the pawls and remove the hazard switch.

INSTALLATION

Installation is in the reverse order of removal.

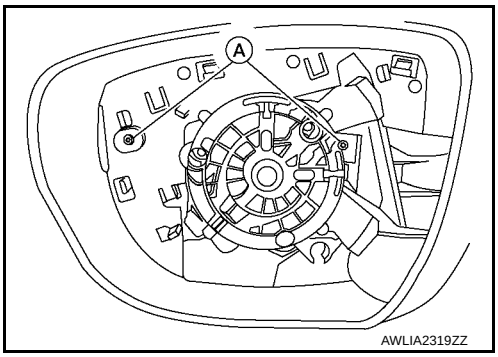
SIDE TURN SIGNAL LAMP

Removal and Installation

INFOID:0000000014623283

REMOVAL

1. Remove door mirror rear finisher. Refer to MIR-27, "Removal and Installation".
2. Remove door mirror glass. Refer to MIR-25, "Removal and Installation".
3. Remove the screws (A) and reposition side turn signal lamp.



4. Disconnect the harness connector from the side turn signal lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

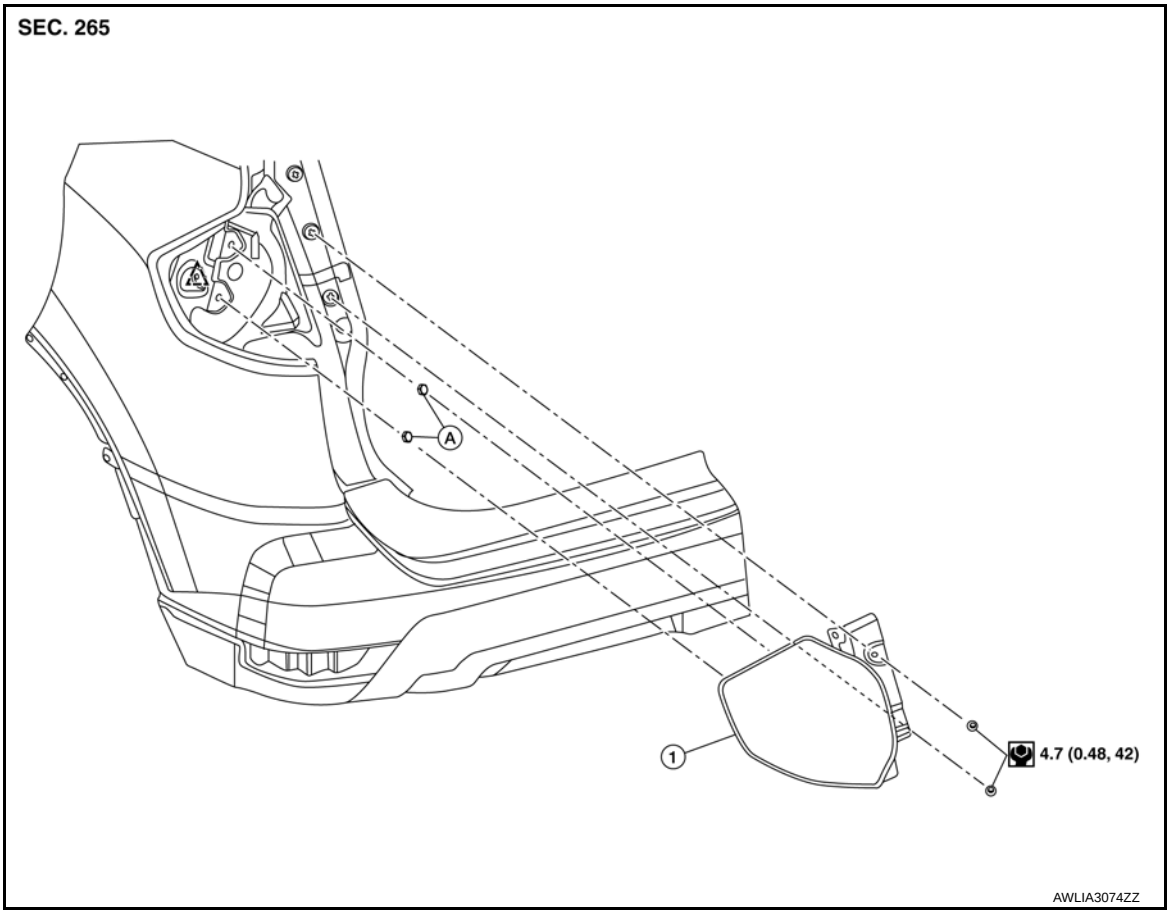
INFOID:0000000014623284

The side turn signal lamp bulb is not serviced separately. Refer to EXL-123, "Removal and Installation".

REAR COMBINATION LAMP

Exploded View

INFOID:0000000014623285



1. Rear combination lamp
A. Grommet
Clip

Removal and Installation

INFOID:0000000014623286

REMOVAL

1. Remove side air spoiler. Refer to EXT-61, "Removal and Installation".
2. Remove rear combination lamp bolts.
3. Pull rear combination lamp rearward to release from clip and locators.
4. Disconnect the harness connector from the rear combination lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623287

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 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

STOP LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "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.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

TAIL LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "Removal and Installation".
2. Rotate tail lamp bulb socket counterclockwise and remove.
3. Remove tail lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

TURN SIGNAL LAMP BULB

Removal

1. Remove rear combination lamp. Refer to EXL-124, "Removal and Installation".
2. Rotate turn signal lamp bulb socket counterclockwise and remove.
3. Remove turn signal lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

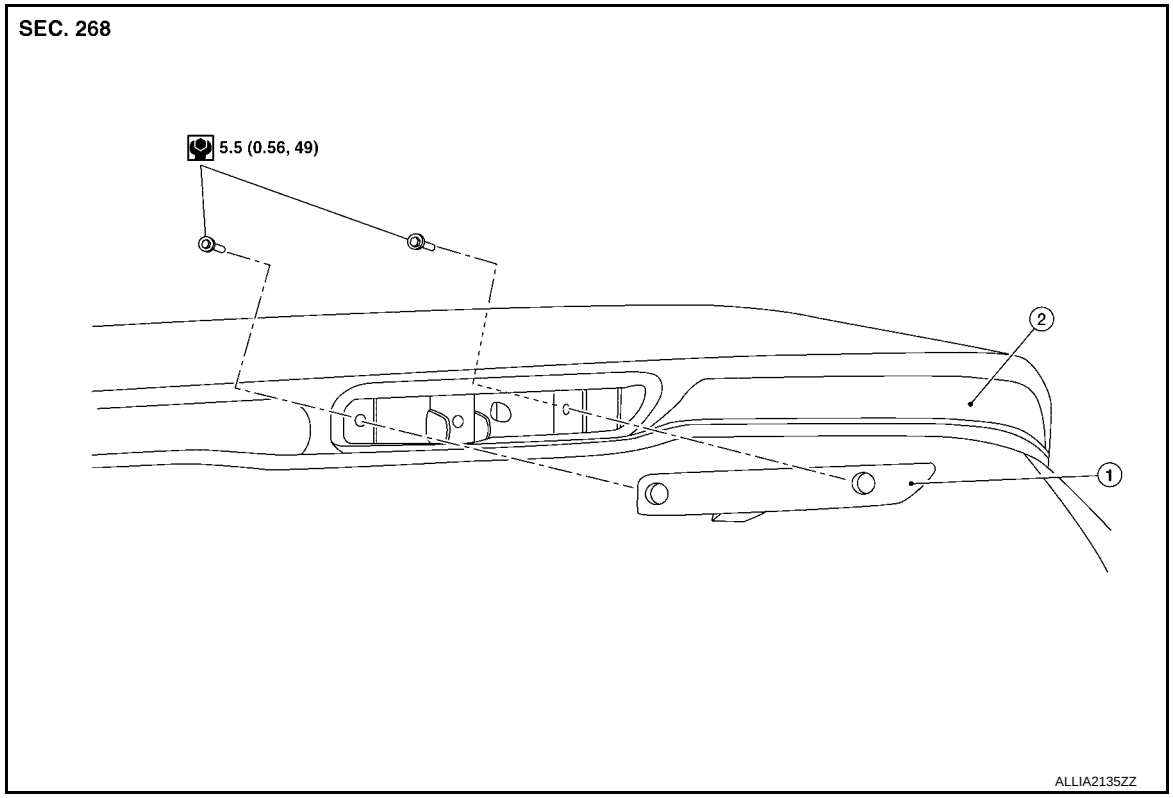
CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

HIGH-MOUNTED STOP LAMP

Exploded View

INFOID:0000000014623288



1. High-mounted stop lamp
2. Back door

Removal and Installation

INFOID:0000000014623289

REMOVAL

1. Remove access cover using a suitable tool. Refer to INT-35, "Exploded View".
2. Remove high-mounted stop lamp nuts.
3. Disconnect the harness connector from high-mounted stop lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623290

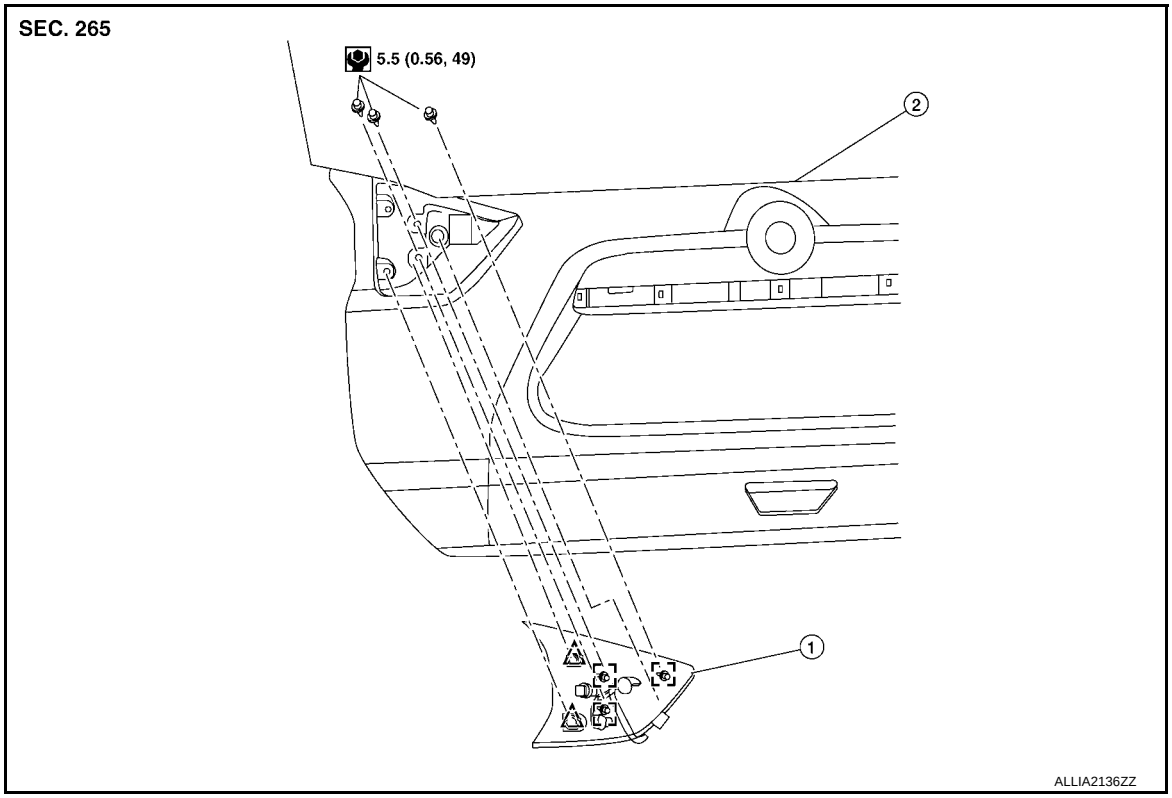
HIGH-MOUNTED STOP LAMP BULB

The high-mounted stop lamp bulb is not serviced separately. Refer to EXL-126, "Removal and Installation".

BACK-UP LAMP ASSEMBLY

Exploded View

INFOID:0000000014623291



1. Back-up lamp assembly
2. Back door
Clip
Stud

Removal and Installation

INFOID:0000000014623292

REMOVAL

1. Remove back door finisher. Refer to INT-35, "Removal and Installation".
2. Remove back-up lamp assembly nuts.
3. Pull back-up lamp assembly rearward, disconnect the harness connector and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623293

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 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

TAIL LAMP BULB

Removal

1. Remove back-up lamp assembly. Refer to EXL-127, "Removal and Installation".
2. Rotate tail lamp bulb socket counterclockwise and remove.

3. Remove tail lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

BACK-UP LAMP BULB

Removal

1. Remove back-up lamp assembly. Refer to EXL-127, "Removal and Installation".
2. Rotate back-up lamp bulb socket counterclockwise and remove.
3. Remove back-up lamp bulb from bulb socket.

Installation

Installation is in the reverse order of removal.

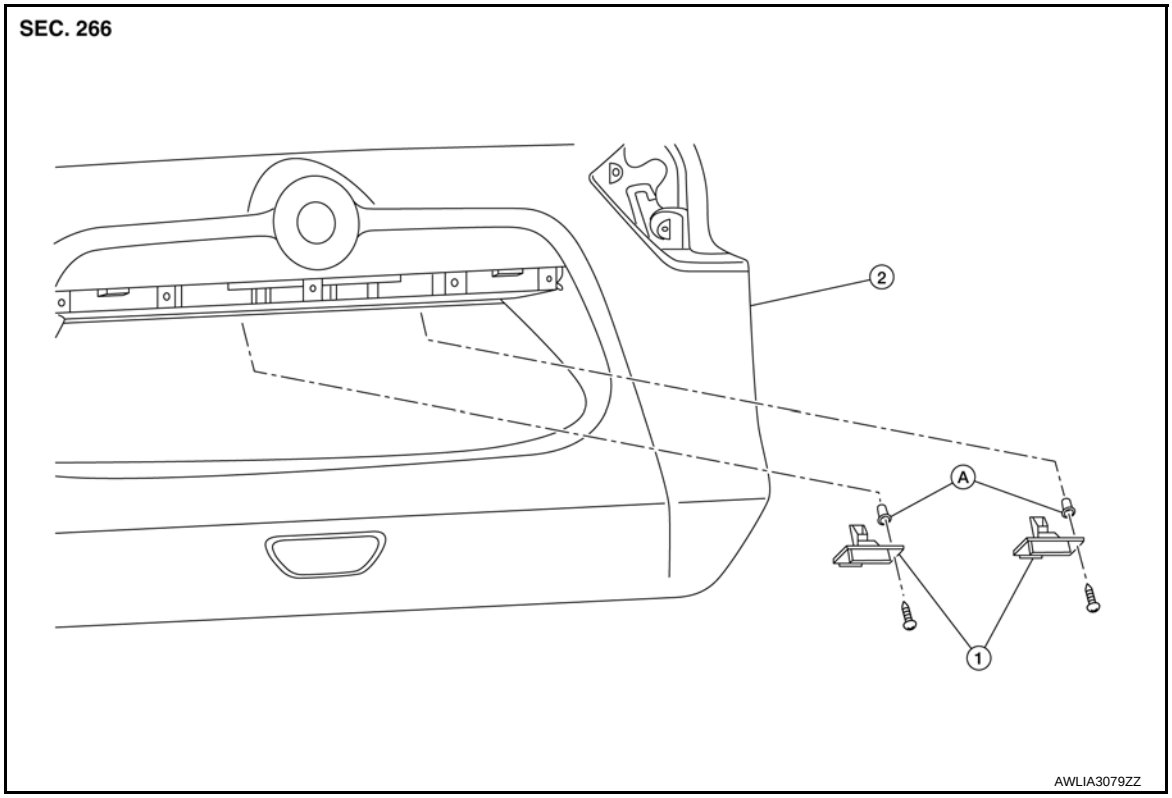
CAUTION:

After installing the bulb, install bulb socket securely for watertightness.

LICENSE PLATE LAMP

Exploded View

INFOID:0000000014623294



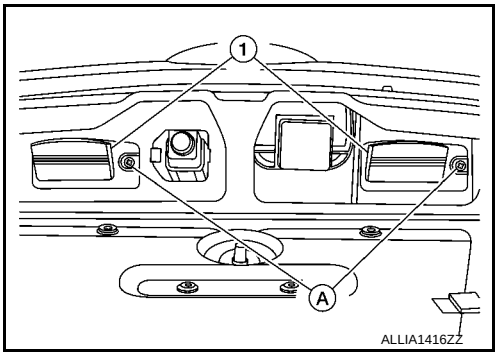
1. License plate lamp
2. Back door
A. Grommet

Removal and Installation

INFOID:0000000014623295

REMOVAL

1. Release the license lamp finisher. Refer to EXT-63, "Exploded View".
2. Remove the screw (A) (LH or RH) and pull license plate lamp (1) (LH or RH) rearward.



3. Disconnect the harness connector from the license plate lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000014623296

WARNING:

Do not touch bulb with your hand while it is on 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 bulb out of lamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of lamp. When replacing bulb, be sure to replace it with new one.**

REMOVAL

1. Remove license plate lamp. Refer to EXL-260, "Removal and Installation".
2. Rotate license plate lamp bulb socket counterclockwise and remove.
3. Remove license plate lamp bulb from bulb socket.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

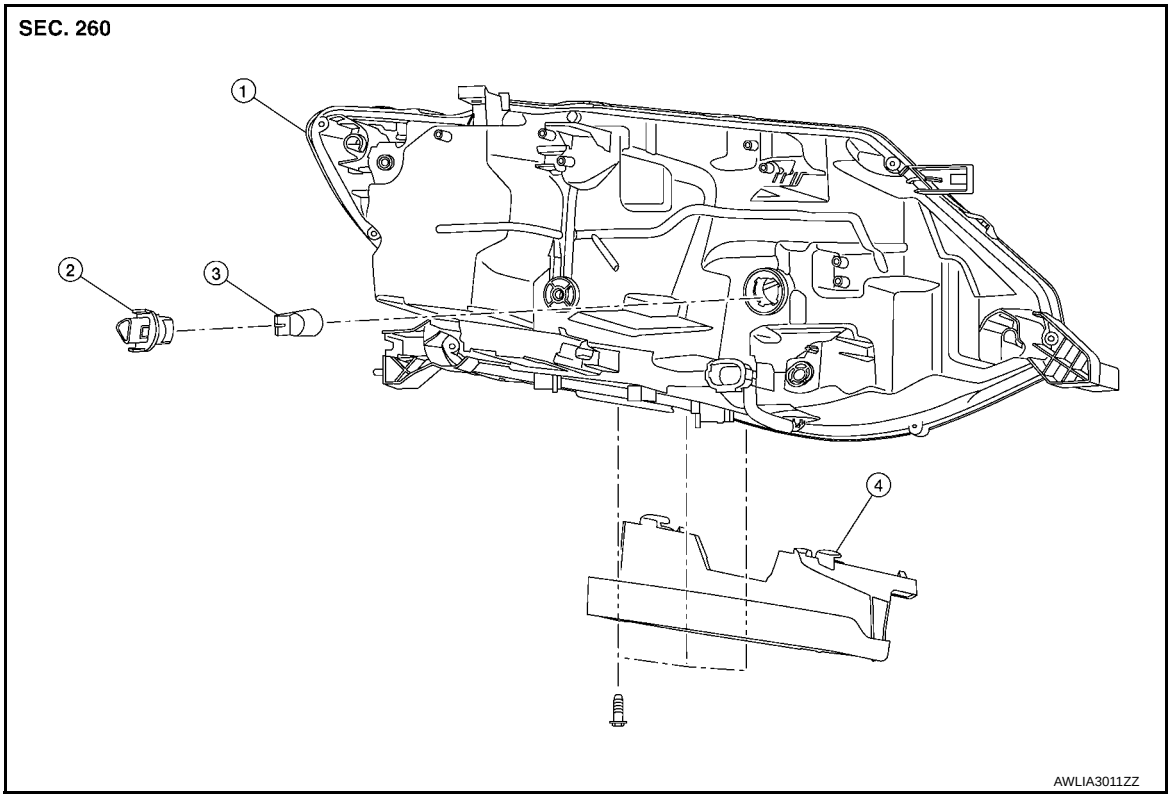
After installing the bulb, install the bulb socket securely for watertightness.

UNIT DISASSEMBLY AND ASSEMBLY

FRONT COMBINATION LAMP

Exploded View

INFOID:0000000014623297



1. Front combination lamp
2. Turn signal lamp bulb socket
3. Turn signal lamp bulb
4. Front combination lamp mounting bracket

Disassembly and Assembly

INFOID:0000000014623298

DISASSEMBLY

1. Remove front combination lamp. Refer to EXL-247, "Removal and Installation".
2. Rotate the turn signal lamp bulb socket counterclockwise and remove.
3. Remove the turn signal lamp bulb from the bulb socket.

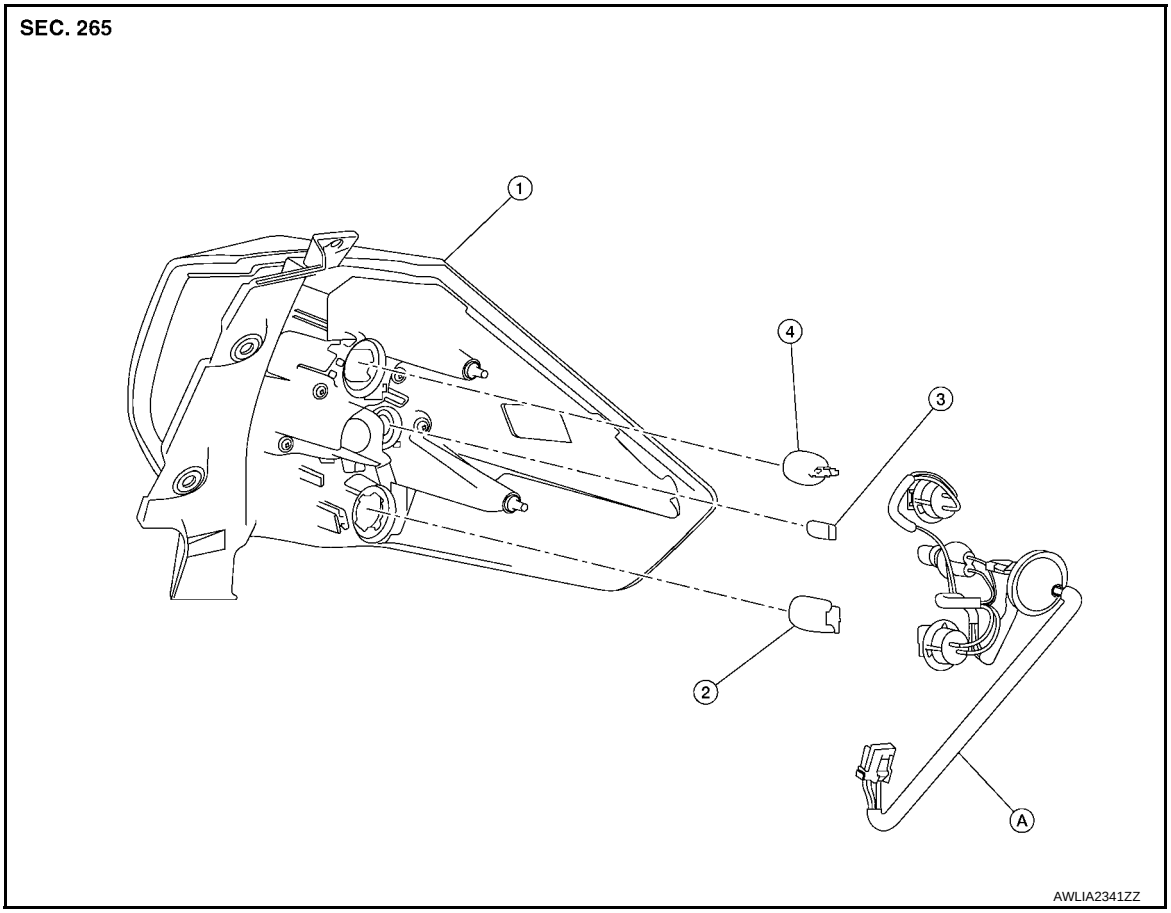
ASSEMBLY

Assembly is in the reverse order of disassembly.

REAR COMBINATION LAMP

Exploded View

INFOID:0000000014623299



1. Rear combination lamp
2. Turn signal lamp bulb
3. Tail lamp bulb
4. Stop lamp bulb
A. Rear combination lamp harness

Disassembly and Assembly

INFOID:0000000014623300

DISASSEMBLY

1. Remove rear combination lamp. Refer to EXL-255, "Removal and Installation".
2. Rotate the stop lamp bulb socket counterclockwise and remove.
3. Remove the stop lamp bulb from the bulb socket.
4. Rotate the tail lamp bulb socket counterclockwise and remove.
5. Remove the tail lamp bulb from the bulb socket.
6. Rotate the turn signal lamp bulb socket counterclockwise and remove.
7. Remove the turn signal lamp bulb from bulb socket.

ASSEMBLY

Assembly is in the reverse order of disassembly.

CAUTION:

After installing, be sure to install the bulb sockets securely to ensure watertightness.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000014623301

Item		Wattage (W)*
Front combination lamp	High beam	—
	Low beam	—
	Turn signal lamp	28/8
	Side marker lamp	—
	Daytime running lamp	—
Front fog lamp		35
Side turn signal lamp		—
Rear combination lamp	Stop lamp	21
	Tail lamp	5
	Turn signal lamp	21
Back-up lamp	Tail lamp	—
	Back-up lamp	16
License plate lamp		5
High-mounted stop lamp		—

*: Always check with the Parts Department for the latest parts info.