

LT

SECTION

LIGHTING SYSTEM

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CONTENTS

<b>PRECAUTION</b> .....	3	<b>DESCRIPTION</b> .....	20	F
Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	3	HEADLAMP OPERATION (DAYTIME LIGHT CANCEL OPERATION) .....	20	
Precaution .....	3	DAYTIME LIGHT OPERATION .....	20	G
Wiring Diagrams and Trouble Diagnosis .....	3	DRIVING LAMP OPERATION .....	20	
<b>HEADLAMP</b> .....	4	Schematic .....	22	
System Description .....	4	Wiring Diagram -DTRL- .....	23	H
DESCRIPTION .....	4	Trouble Diagnoses .....	28	
LOW BEAM OPERATION .....	4	DAYTIME LIGHT CONTROL UNIT INSPECTION TABLE .....	28	
HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION .....	4	Bulb Replacement .....	28	I
DRIVING LAMP OPERATION .....	4	Aiming Adjustment .....	28	
Schematic .....	6	Removal and Installation .....	28	
Wiring Diagram — H/LAMP — .....	7	<b>HEADLAMP AIMING CONTROL</b> .....	29	J
LHD MODELS .....	7	Wiring Diagram -H/AIM- .....	29	
RHD MODELS .....	10	Removal and Installation .....	30	
Trouble Diagnoses .....	13	Switch Circuit Inspection .....	30	LT
Aiming Adjustment for Headlamp .....	14	<b>TURN SIGNAL AND HAZARD WARNING LAMPS..</b>	31	
LOW BEAM .....	14	System Description .....	31	
Aiming Adjustment for Driving Lamp .....	15	TURN SIGNAL OPERATION .....	31	L
PREPARATION BEFORE ADJUSTING .....	15	HAZARD LAMP OPERATION .....	31	
ADJUSTMENT USING AN ADJUSTMENT SCREEN (LIGHT/DARK BORDERLINE) .....	16	Wiring Diagram — TURN — .....	33	
ADJUSTING .....	16	LHD MODELS .....	33	
Bulb Replacement for Headlamp and Clearance lamp .....	16	RHD MODELS .....	35	M
HEAD LAMP .....	16	Trouble Diagnoses .....	37	
CLEARANCE LAMP .....	16	Electrical Components Inspection .....	37	
Bulb Replacement for Driving Lamp .....	17	COMBINATION FLASHER UNIT CHECK .....	37	
Removal and Installation for Headlamp .....	17	Bulb Replacement .....	38	
REMOVAL .....	17	FRONT TURN SIGNAL LAMP .....	38	
INSTALLATION .....	17	SIDE TURN SIGNAL LAMP .....	38	
Removal and Installation for Driving Lamp .....	18	REAR TURN SIGNAL LAMP .....	38	
REMOVAL .....	18	Removal and Installation for Front Turn Signal Lamp..	38	
INSTALLATION .....	18	REMOVAL .....	38	
Removal and Installation for Driving Lamp Switch..	19	INSTALLATION .....	38	
<b>HEADLAMP - DAYTIME LIGHT SYSTEM -</b> .....	20	Removal and Installation for Side Turn Signal Lamp..	38	
System Description .....	20	Removal and Installation for Rear Turn Signal Lamp..	39	
		<b>LIGHTING AND TURN SIGNAL SWITCH</b> .....	40	
		Removal and Installation .....	40	
		Switch Circuit Inspection .....	40	

<b>HAZARD SWITCH</b> .....	<b>41</b>	<b>HIGH-MOUNTED STOP LAMP</b> .....	<b>61</b>
Removal and Installation .....	41	Bulb Replacement .....	61
REMOVAL .....	41	Removal and Installation .....	61
INSTALLATION .....	41	<b>REAR COMBINATION LAMP</b> .....	<b>62</b>
<b>STOP LAMP</b> .....	<b>42</b>	Wiring Diagram —STOP/L— .....	62
Wiring Diagram — STOP/L — .....	42	Bulb Replacement .....	63
Bulb Replacement .....	43	Removal and Installation .....	63
STOP LAMP .....	43	REMOVAL .....	63
HIGH-MOUNTED STOP LAMP .....	43	INSTALLATION .....	63
Removal and Installation .....	43	<b>COMBINATION SWITCH</b> .....	<b>64</b>
STOP LAMP .....	43	Removal and Installation .....	64
HIGH-MOUNTED STOP LAMP .....	43	Switch Circuit Inspection .....	64
<b>BACK-UP LAMP</b> .....	<b>44</b>	<b>ASHTRAY ILLUMINATION</b> .....	<b>65</b>
Wiring Diagram — BACK/L — .....	44	Bulb Replacement, Removal and Installation .....	65
GASOLINE ENGINE .....	44	<b>ILLUMINATION</b> .....	<b>66</b>
DIESEL ENGINE .....	45	System Description .....	66
Bulb Replacement .....	46	Schematic .....	67
Removal and Installation .....	46	Wiring Diagram -ILL- .....	68
<b>PARKING, LICENSE PLATE AND TAIL LAMPS</b> .....	<b>47</b>	LHD MODELS .....	68
Wiring Diagram — TAIL/L — .....	47	RHD MODELS .....	72
LHD MODELS .....	47	<b>INTERIOR ROOM LAMP</b> .....	<b>76</b>
RHD MODELS .....	49	System Description .....	76
Bulb Replacement .....	51	POWER SUPPLY AND GROUND .....	76
PARKING AND TAIL LAMPS .....	51	SWITCH OPERATION .....	76
LICENSE PLATE LAMP .....	51	INTERIOR ROOM LAMP TIMER OPERATION .....	77
Removal and Installation .....	51	ON-OFF CONTROL .....	77
PARKING AND TAIL LAMPS .....	51	Wiring Diagram -ROOM/L- .....	78
LICENSE PLATE LAMP .....	51	LHD MODELS .....	78
<b>FRONT FOG LAMP</b> .....	<b>52</b>	RHD MODELS .....	80
System Description .....	52	Interior Room Lamp Timer Does Not Operate .....	82
DESCRIPTION .....	52	Interior Room Lamp Timer Does Not Cancel .....	85
FOG LAMP OPERATION .....	52	Bulb Replacement .....	86
Wiring Diagram — F/FOG — .....	53	INTERIOR ROOM LAMP .....	86
Aiming Adjustment .....	54	LUGGAGE ROOM LAMP .....	86
Bulb Replacement .....	55	Removal and Installation .....	87
Removal and Installation .....	55	INTERIOR ROOM LAMP .....	87
REMOVAL .....	55	LUGGAGE ROOM LAMP .....	87
INSTALLATION .....	55	<b>STEP LAMP</b> .....	<b>88</b>
<b>REAR FOG LAMP</b> .....	<b>56</b>	Wiring Diagram — STEP/L — .....	88
System Description .....	56	LHD MODELS .....	88
DESCRIPTION .....	56	RHD MODELS .....	89
FOG LAMP OPERATION .....	56	<b>MAP LAMP</b> .....	<b>90</b>
Wiring Diagram -R/FOG-/Without Front Fog Lamp .....	57	Wiring Diagram —INT/L— .....	90
Wiring Diagram -R/FOG-/With Front Fog Lamp .....	58	Bulb Replacement .....	91
Bulb Replacement .....	59	MAP LAMP (WITHOUT SUNROOF) .....	91
Removal and Installation .....	59	MAP LAMP (WITH SUNROOF) .....	91
REMOVAL .....	59	Removal and Installation .....	91
INSTALLATION .....	59	MAP LAMP (WITHOUT SUNROOF) .....	91
<b>CLEARANCE LAMP/TAIL LAMP</b> .....	<b>60</b>	MAP LAMP (WITH SUNROOF) .....	91
Bulb Replacement (Clearance Lamp) .....	60	<b>BULB SPECIFICATIONS</b> .....	<b>92</b>
Bulb Replacement (Tail lamp) .....	60	Headlamp .....	92
Removal and Installation of Clearance Lamp .....	60	Exterior Lamp .....	92
Removal and Installation of Tail lamp .....	60	Interior Lamp/Illumination .....	92

# PRECAUTION

## PRECAUTION

PFP:00011

### Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS0079M

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SRS 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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS 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.

## Precaution

EKS003KS

- Do not touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.
- Do not leave bulb out of headlamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of the headlamp. When replacing the bulb, be sure to replace it with a new one.
- Adjust aiming by tightening aiming screw. (To adjust it toward loosening side, first loosen adjusting screw, and then make adjustment by tightening.)
- To remove soil or sealant of bulbs, do not use organic solvent (thinner, gasoline, etc.)
- When replacing bulb, be sure to hold bulb socket and pull it out straight. If wiring harness of the bulb is pulled at an angle, the bulb may be caught in the lamp, making it difficult to take out.

## Wiring Diagrams and Trouble Diagnosis

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When you read wiring diagrams, refer to the followings:

- Refer to [GI-14, "How to Read Wiring Diagrams"](#) in GI section
- Refer to [PG-2, "POWER SUPPLY ROUTING"](#) for power distribution circuit in PG section

When you perform trouble diagnosis, refer to the followings:

- Refer to [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section
- Refer to [GI-23, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section

## HEADLAMP

PFP:26010

### System Description DESCRIPTION

EKS003CD

The headlamps are controlled by the lighting switch which is built into the combination switch. Power is supplied at all times

- through 15A fuse (No. 40, located in the fuse and fusible link box)
- to lighting switch terminal 8
- through 15A fuse (No. 41, located in the fuse and fusible link box)
- to lighting switch terminal 5
- through 15A fuse (No. 38, located in the fuse and fusible link box)
- to driving lamp relay terminal 3.

### LOW BEAM OPERATION

When the lighting switch is turned to the 2ND position and placed in LOW position, power is supplied

- from lighting switch terminal 10
- to headlamp LH terminal 3
- from lighting switch terminal 7
- to headlamp RH terminal 3

Each headlamp terminal 2 supplies ground through grounds E24 and E50.

With power and ground supplied, the low beams will illuminate.

### HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

When the lighting switch is turned to the 2ND position and placed in HIGH position or PASS position, power is supplied

- from lighting switch terminal 6
- to headlamp RH terminal 1
- from lighting switch terminal 9
- to headlamp LH terminal 1 and
- to combination meter terminal 20 for the HIGH BEAM indicator.

Ground is supplied

- to combination meter terminal 19 through grounds M27 and M70.
- to each headlamp terminal 2 through grounds E24 and E50.

With power and ground supplied, the high beams and the HIGH BEAM indicator illuminate.

### DRIVING LAMP OPERATION

To turn the driving lamp on, push the driving lamp switch when the lighting switch is turned to the 2ND position and placed in HIGH position or PASS position, power is supplied

- from lighting switch terminal 9
- to headlamp LH terminal 1
- to driving lamp relay-1 terminal 1
- to driving lamp switch terminal 7
- to combination meter terminal 20 for the HIGH BEAM indicator
- to driving lamp relay-2 terminal 5
- to driving lamp relay-2 terminal 3
- through driving lamp switch terminal 6
- from driving lamp relay-1 terminal 5
- to driving lamp LH and RH terminal 2

Ground is supplied

- to driving lamp relay-1 terminal 2, through driving lamp relay-2 terminal 7
- to driving lamp relay-2 terminal 6, through grounds E24 and E50
- to driving lamp switch terminal 4, through driving lamp relay-2 terminal 1

# HEADLAMP

- to driving lamp relay-2 terminal 2, through grounds E24 and E50
- to driving lamp LH terminal 1, through ground R8
- to driving lamp RH terminal 1 and 3, through ground R8
- to combination meter terminal 19, through grounds M27 and M70
- to each headlamp terminal 2, through grounds E24 and E50.

With power and ground supplied, the high beams, driving lamp and the HIGH BEAM indicator illuminate.

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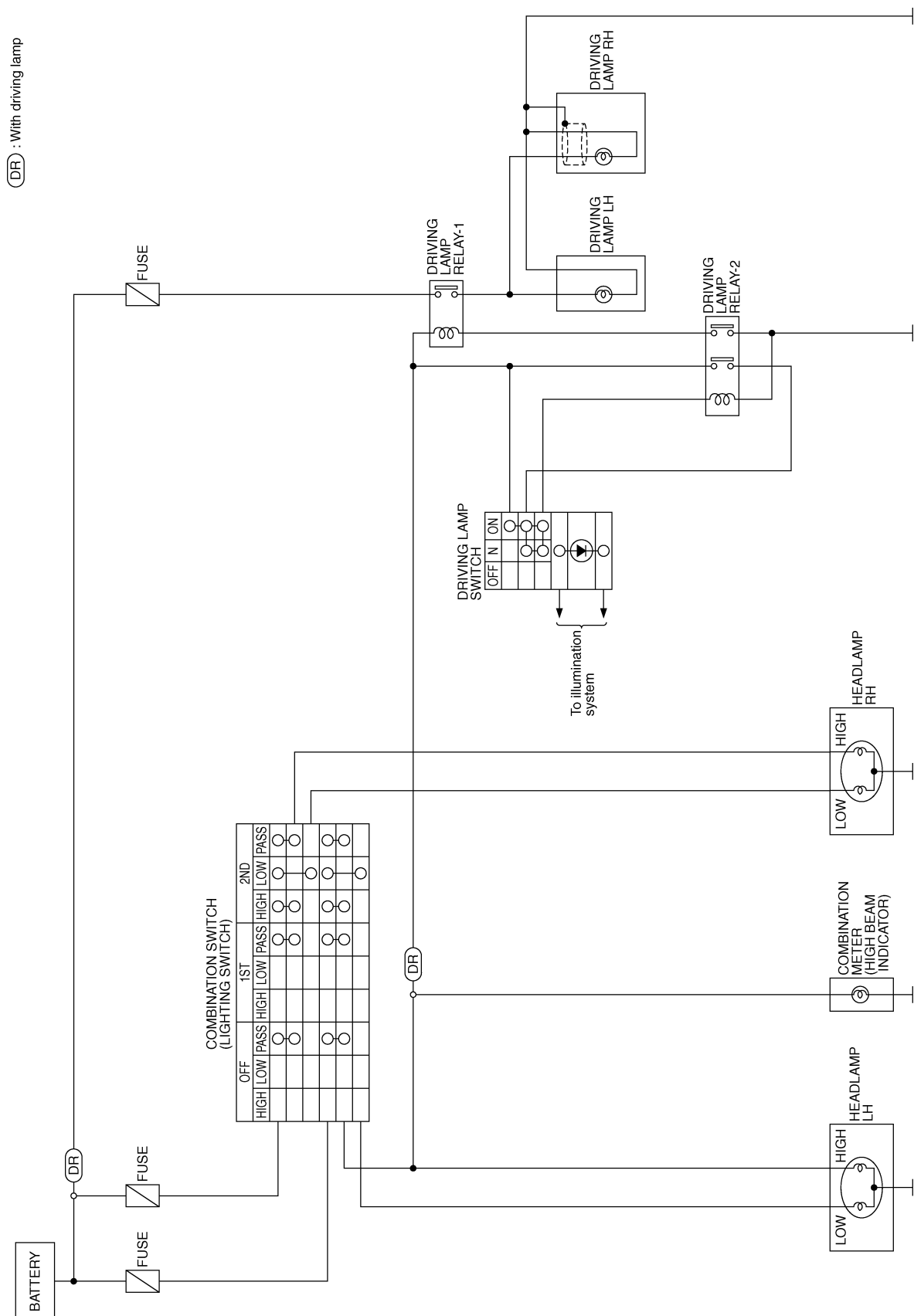
L

M

## HEADLAMP

## Schematic

EKS00APE

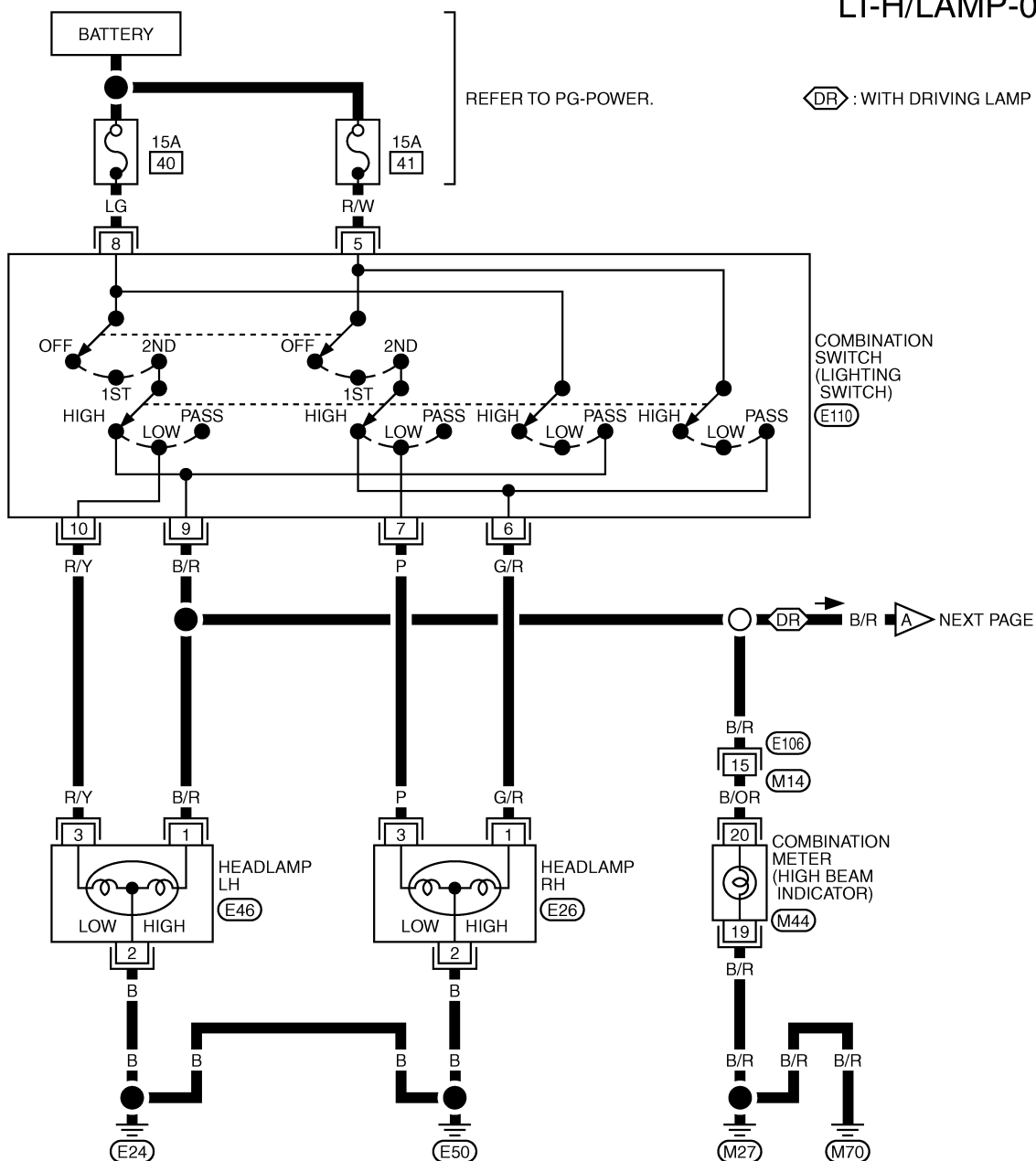





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## EKS003CE

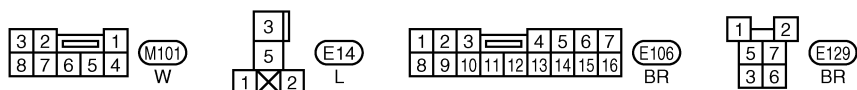
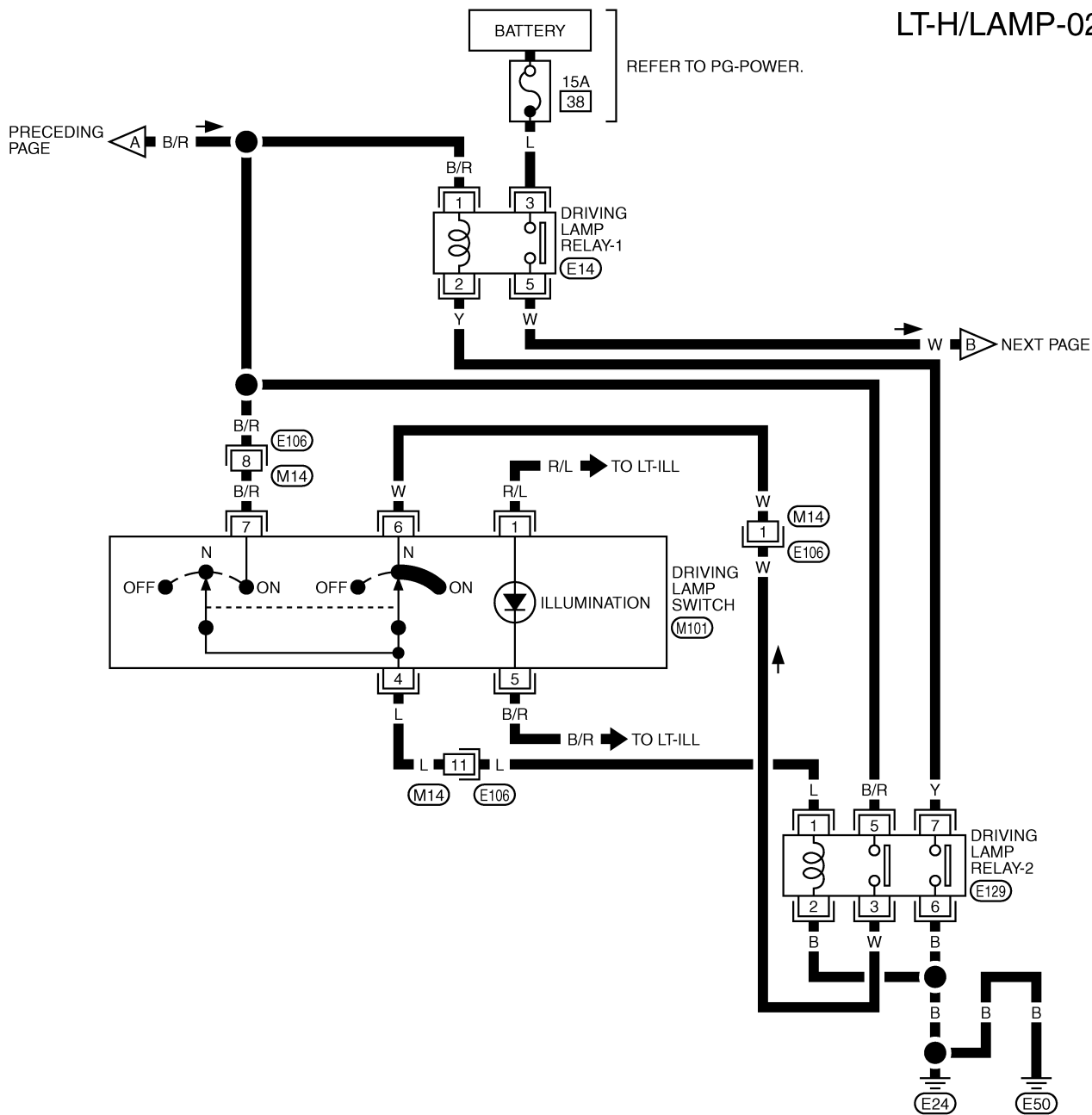
LT



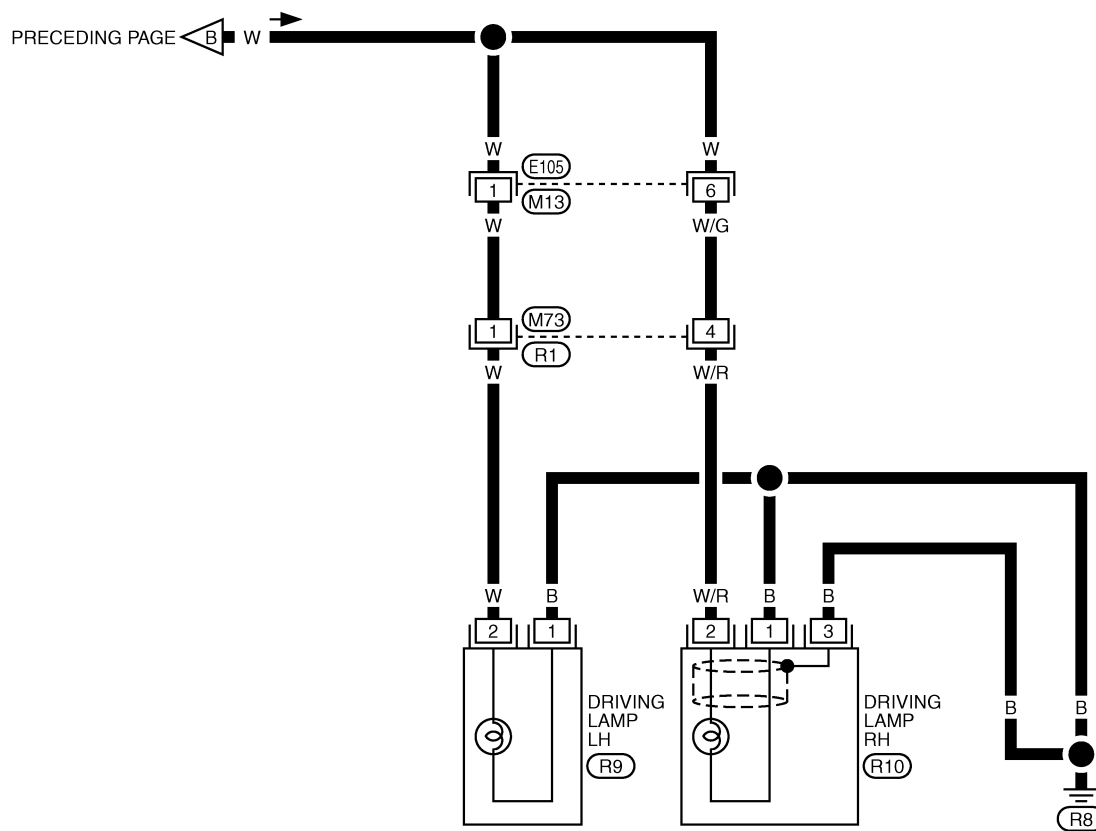




## HEADLAMP

LT-H/LAMP-02







1	2	3		4	5
6	7	8	9	10	11

E105

  
W

1	2		3
4	5	6	7
			8

R1

  
W

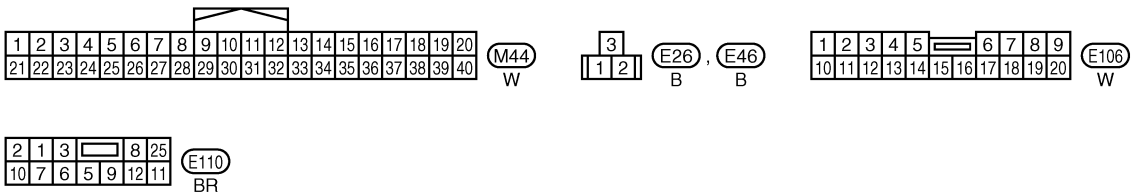
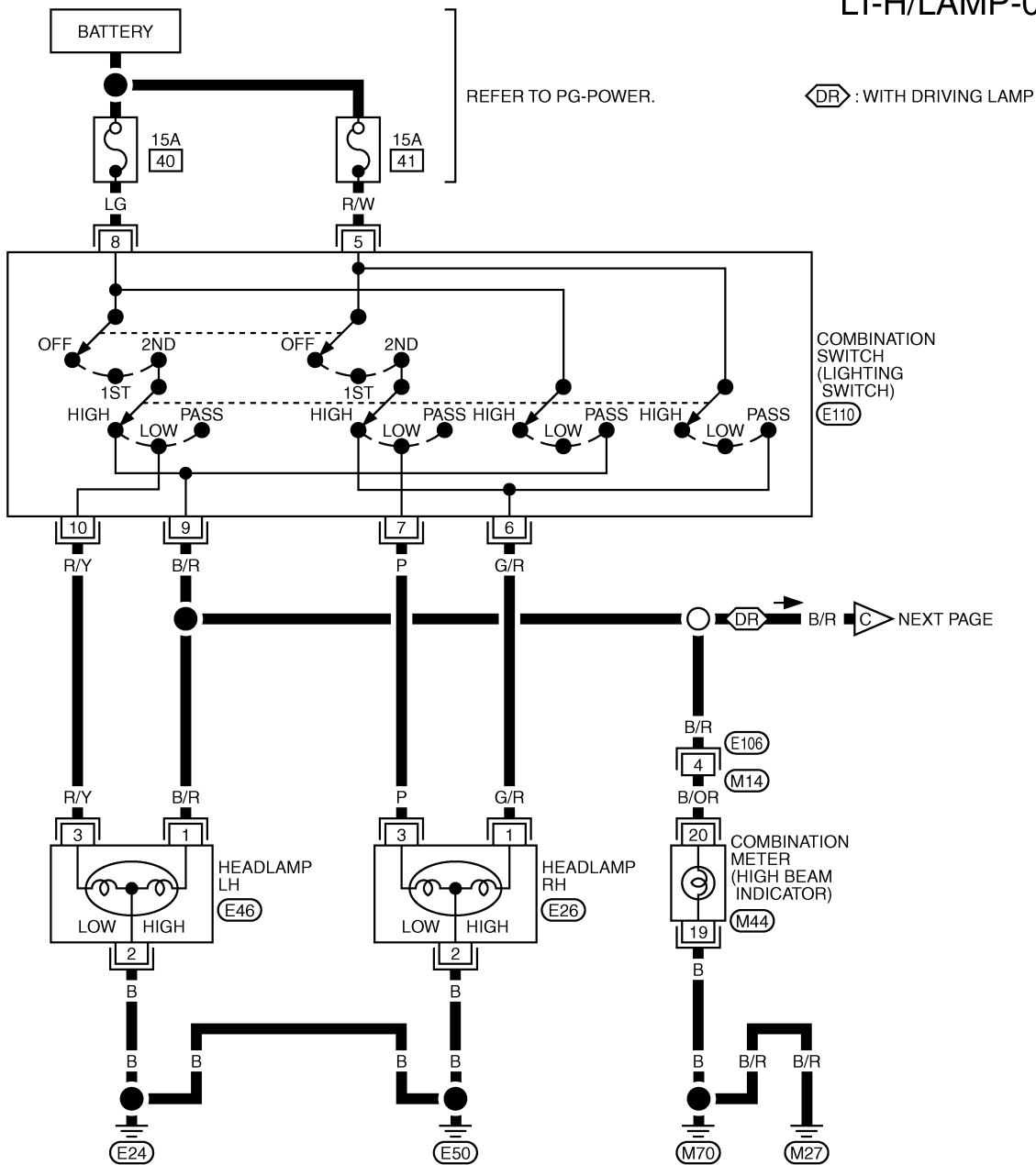
2 1 R9  
GY

Diagram of a 3-bit shift register. It has three inputs labeled 3, 2, and 1. The output is labeled R10. A write signal W is shown below the output.

## HEADLAMP

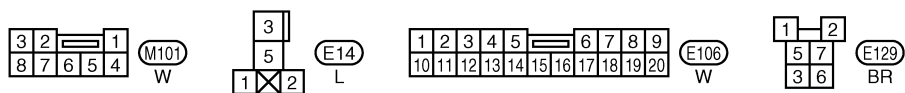
## RHD MODELS

LT-H/LAMP-04



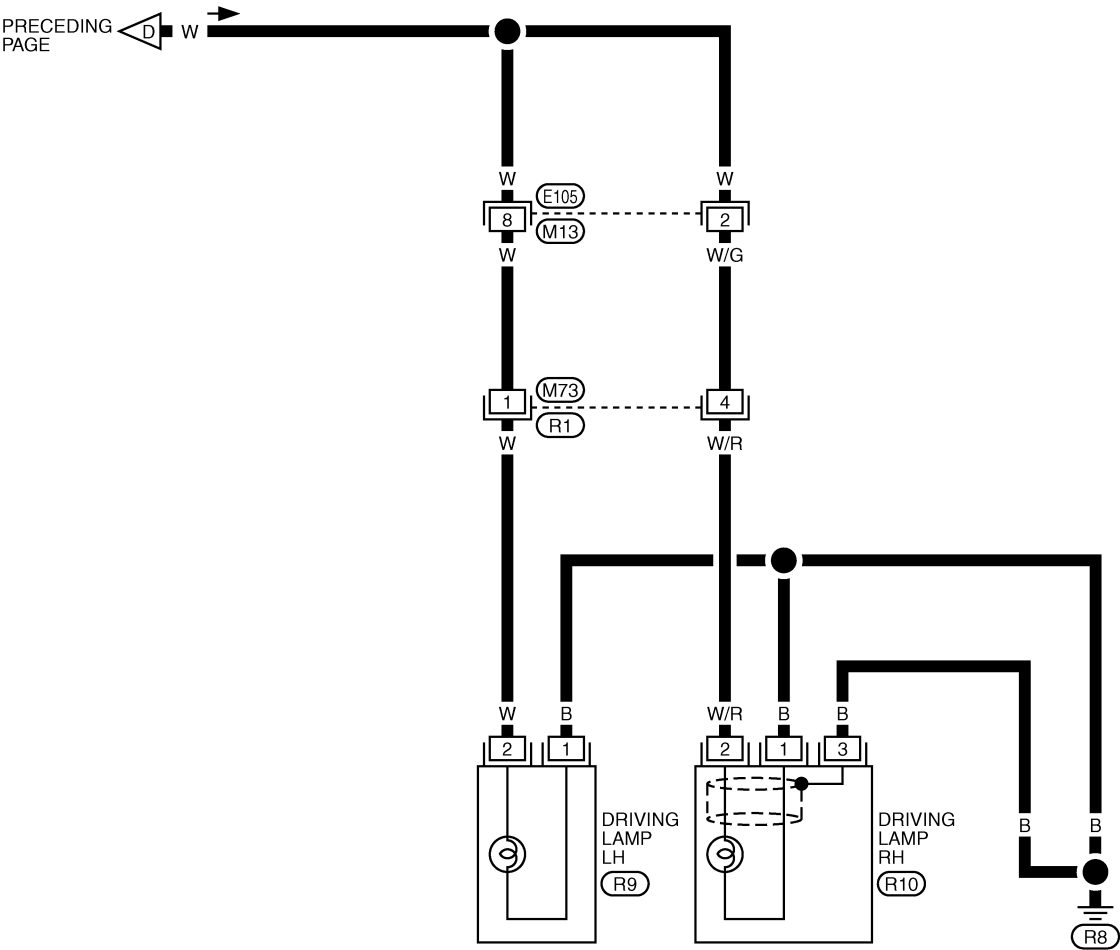
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HEADLAMP

LT-H/LAMP-06



1	2	3	4	5
6	7	8	9	10

E105  
BR

1	2	3
4	5	6

R1  
W

2	1
---	---

R9  
GY

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

R10  
W

# HEADLAMP

## Trouble Diagnoses

EKS003CF

Symptom	Possible cause	Repair order
Headlamp LH do not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds E24 and E50</li> <li>3. 15A fuse</li> <li>4. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check grounds E24 and E50.</li> <li>3. Check 15A fuse (No. 40, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 8 of lighting switch.</li> <li>4. Check lighting switch.</li> </ol>
Headlamp RH do not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds E24 and E50</li> <li>3. 15A fuse</li> <li>4. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check grounds E24 and E50.</li> <li>3. Check 15A fuse (No. 41, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 5 of lighting switch.</li> <li>4. Check lighting switch.</li> </ol>
High beam LH do not operate, but low beam LH operates.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Open in high beam LH circuit</li> <li>3. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulbs.</li> <li>2. Check the wire between lighting switch terminal 9 and headlamp LH terminal 1 for an open circuit.</li> <li>3. Check lighting switch.</li> </ol>
Low beam LH does not operate, but high beam LH operates.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Open in low beam LH circuit</li> <li>3. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check the wire between lighting switch terminal 10 and headlamp LH terminal 3 for an open circuit.</li> <li>3. Check lighting switch.</li> </ol>
High beam RH do not operate, but low beam RH operates.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Open in high beam RH circuit</li> <li>3. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulbs.</li> <li>2. Check the wire between lighting switch terminal 6 and headlamp RH terminal 1 for an open circuit.</li> <li>3. Check lighting switch.</li> </ol>
Low beam RH does not operate, but high beam RH operates.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Open in low beam RH circuit</li> <li>3. Lighting switch</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check the wire between lighting switch terminal 7 and headlamp RH terminal 3 for an open circuit.</li> <li>3. Check lighting switch.</li> </ol>

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# HEADLAMP

Symptom	Possible cause	Repair order
High beam indicator does not work.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds M27 and M70</li> <li>3. Open in high beam circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb in combination meter.</li> <li>2. Check grounds M27 and M70.</li> <li>3. Check the wire between lighting switch terminal 9 and combination meter terminal 20 for an open circuit.</li> </ol>
Driving lamp does not operate, but high beam LH operates.	<ol style="list-style-type: none"> <li>1. 15A fuse</li> <li>2. Open in driving lamp switch</li> <li>3. Driving lamp switch circuit</li> <li>4. Driving lamp relay-2</li> <li>5. Open in driving lamp relay-2 circuit</li> <li>6. Grounds E24 and E50</li> <li>7. Driving lamp relay-1</li> <li>8. Open in driving lamp relay-1 circuit</li> <li>9. Open driving lamp circuit</li> <li>10. Ground R8</li> <li>11. Bulb</li> </ol>	<ol style="list-style-type: none"> <li>1. Check 15A fuse (No. 38, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 3 of driving lamp relay-1.</li> <li>2. Check the wire between lighting switch terminal 9 and driving lamp switch terminal 7 for an open circuit.</li> <li>3. Check driving lamp switch.</li> <li>4. Check driving lamp relay-2.</li> <li>5. Check the wire between driving switch terminal 4 and driving lamp relay-2 terminal 1 for an open circuit. Check the wire between driving switch terminal 6 and driving lamp relay-2 terminal 3 for an open circuit. Check the wire between lighting switch terminal 9 and driving lamp relay-2 terminal 5 for an open circuit. Check the wire between driving lamp relay-1 terminal 2 and driving lamp relay-2 terminal 7 for an open circuit.</li> <li>6. Check grounds E24 and E50.</li> <li>7. Check driving lamp relay-1.</li> <li>8. Check the wire between lighting switch terminal 9 and driving lamp relay-1 terminal 1 for an open circuit.</li> <li>9. Check the wire between driving lamp relay-1 terminal 5 and driving lamp terminal 2 for an open circuit.</li> <li>10. Check ground R8.</li> <li>11. Check bulbs.</li> </ol>

## Aiming Adjustment for Headlamp

EKS003CG

When performing headlamp aiming adjustment, use an aiming machine, aiming wall screen or headlamp tester. Aimers should be in good repair, calibrated and operated in accordance with respective operation manuals.

If any aimer is not available, aiming adjustment can be done as follows:

For details, refer to the regulations in your own country.

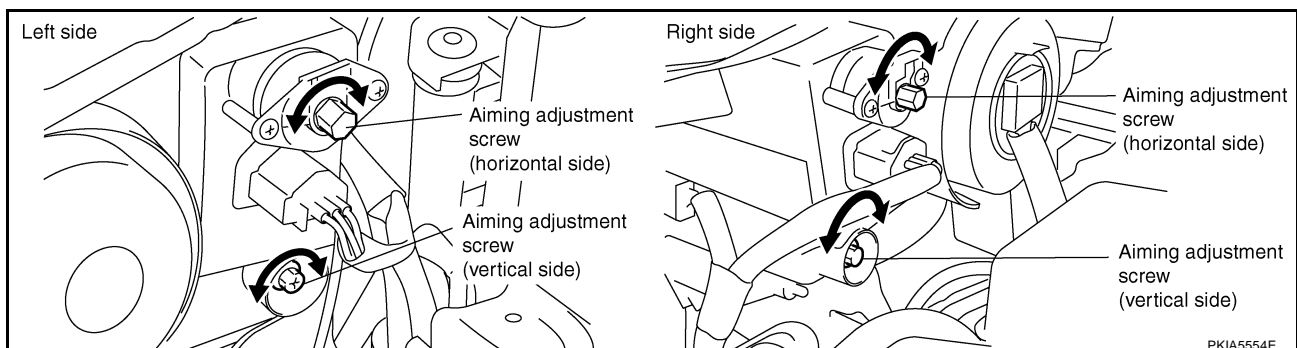
- Keep all tires inflated to correct pressures.
- Place vehicle and tester on one and same flat surface.
- See that there is no-load in vehicle (coolant, engine oil filled up to correct level and full fuel tank) other than the driver (or equivalent weight placed in driver's position).

### CAUTION:

Be sure aiming switch is set to "0" when performing aiming adjustment.

### LOW BEAM

1. Turn headlamp low beam on.



PKIA5554E

# HEADLAMP

## 2. Use adjusting screws to perform aiming adjustment.

- First tighten the adjusting screw all the way and then make adjustment by loosening the screw. If the vehicle front body has been repaired and/or the headlamp assembly has been replaced, check aiming. Use the aiming chart shown in the figure.
- Adjust headlamps so that main axis of light is parallel to center line of body and is aligned with point P shown in illustration.
- Figure to the right shows headlamp aiming pattern for driving on right side of road; for driving on left side of road, aiming pattern is reversed.
- Dotted lines to point P in illustration show center of headlamp.

"H" : Horizontal center line of headlamps

"WL" : Distance between each headlamp center

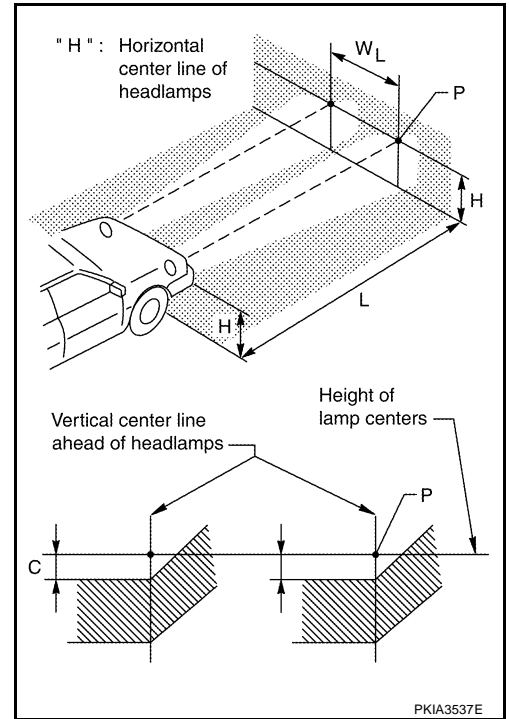
"L" : 25,000mm (984.25 in)

"C" : 315mm (12.40 in) – 315mm(12.40in)+60mm (2.36 in)

- Basic illuminating area for adjustment should be within the range shown at right. Adjust headlamps accordingly.

### CAUTION:

Be sure aiming switch is set to "0" when performing aiming adjustment.

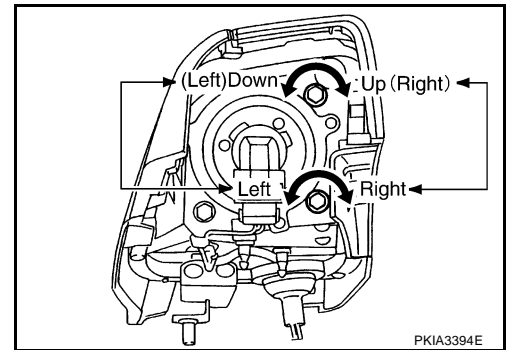


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EKS00AP6

## Aiming Adjustment for Driving Lamp

- Turn the aiming adjusting screw to adjust.
- For positions of the adjustment screws and direction to turn, refer to the figures.
- When adjusting for right or left side, adjust upper and lower adjustment screws at the same time.



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## PREPARATION BEFORE ADJUSTING

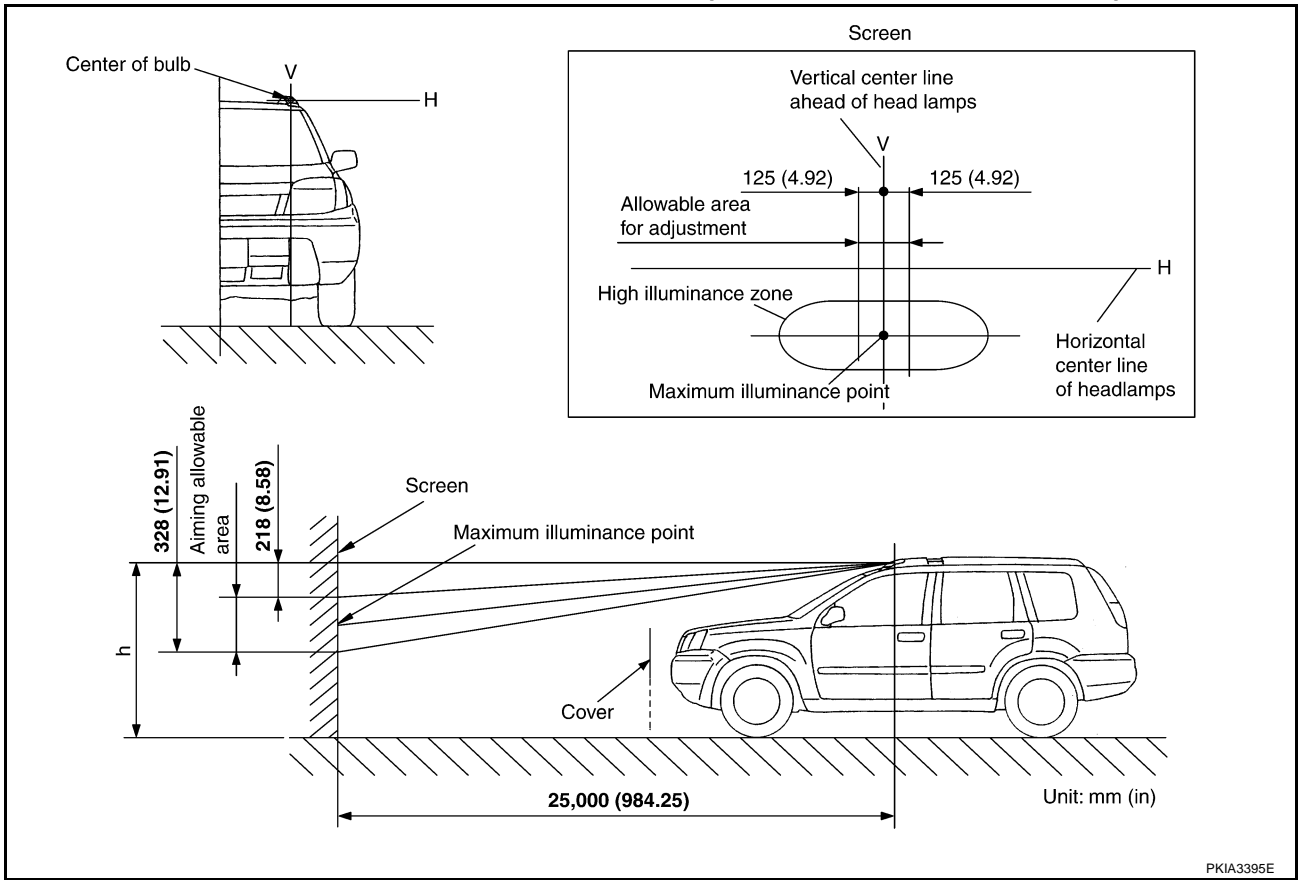
For details, refer to the regulations in your own country.

Before performing aiming adjustment, check the following.

1. Keep all tires inflated to correct pressures.
2. Place vehicle on level ground.
3. Set that there is no-load in vehicle other than the driver (or equivalent weight placed in driver's position), coolant, engine oil filled up to correct level, full fuel tank and spare tire, jack, and tools.

# HEADLAMP

## ADJUSTMENT USING AN ADJUSTMENT SCREEN (LIGHT/DARK BORDERLINE)



### ADJUSTING

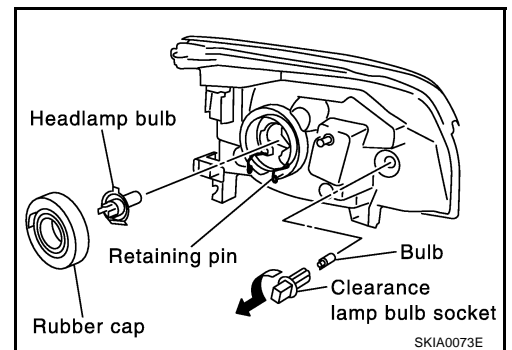
1. Set the distance between the screen and the center of the driving lamp lens as shown in the figure.
2. Turn head lamp switch high and driving lamp switch ON so that front driving lamps turn ON.
3. Adjust driving lamps using adjusting screws make sure of the following.
  - When performing this adjustment, cover the headlamps and the opposite driving lamp, if necessary.
  - Vertical deflection of maximum illuminance point to be adjusted to stand at 21.8cm (8.58in) below driving lamp height (h).
  - Horizontal deflection of maximum illuminance point to be adjusted to stand within  $0 \pm 12.5\text{cm}$  ( $0 \pm 8.58\text{in}$ ) against line (V) on screen where a line passing through driving lamp center, parallel to vehicle center line, cross screen.

### Bulb Replacement for Headlamp and Clearance lamp

#### HEAD LAMP

1. Disconnect connector of headlamp.
2. Remove rubber cap.
3. Unlock retaining spring, then remove bulb.

**Headlamp (High/Low) : 12V 60/55 W(H4)**



#### CLEARANCE LAMP

1. Turn the RH and LH bulb sockets counterclockwise and unlock them.
2. Remove the bulb from its socket.



# HEADLAMP

Clearance lamp : 12V 5W

## CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.
- When replacing bulb, prepare new bulb first of all. Do not leave bulb out of headlamp housing for a long period, because dust, moisture or smoke will cause performance lowering (fouling, cloud, etc.) of headlamp reflector and lens.
- When bulb is installed, be sure to lock rubber cap to ensure watertightness.

## Bulb Replacement for Driving Lamp

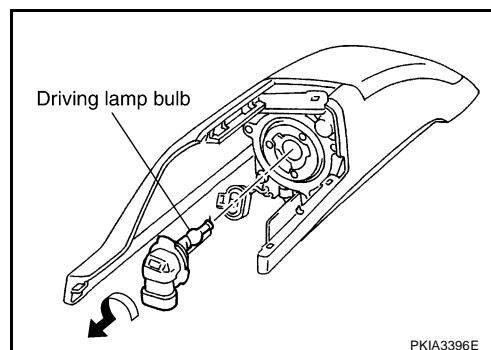
1. Remove the driving lamp. Refer to [LT-18, "Removal and Installation for Driving Lamp"](#) in "HEADLAMP".
2. Disconnect driving lamp connector.
3. Turn bulb socket counterclockwise and unlock it.

Driving lamp : 12 V - 65 W (H1R1 halogen)

4. Install in the reverse order of removal.

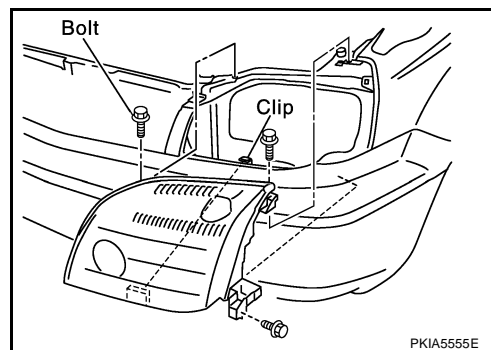
## CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.
- When replacing bulb, prepare new bulb first of all. Do not leave bulb out of driving lamp housing for a long period, because dust, moisture or smoke will cause performance lowering (fouling, cloud, etc.) of driving lamp reflector and lens.



## Removal and Installation for Headlamp REMOVAL

1. Remove the front turn signal lamps. Refer to [LT-38, "Removal and Installation for Front Turn Signal Lamp"](#).
2. Disconnect connector of headlamp and clearance lamp.
3. Remove the front grille. Refer to [EI-19, "FRONT GRILLE"](#) in "EXTERIOR & INTERIOR (EI)" section.
4. Remove the headlamp mounting bolts.
5. Pull the headlamp toward the front of the vehicle.



## INSTALLATION

- Install in the reverse order of removal, taking care of the following points.

### Headlamp mounting bolts

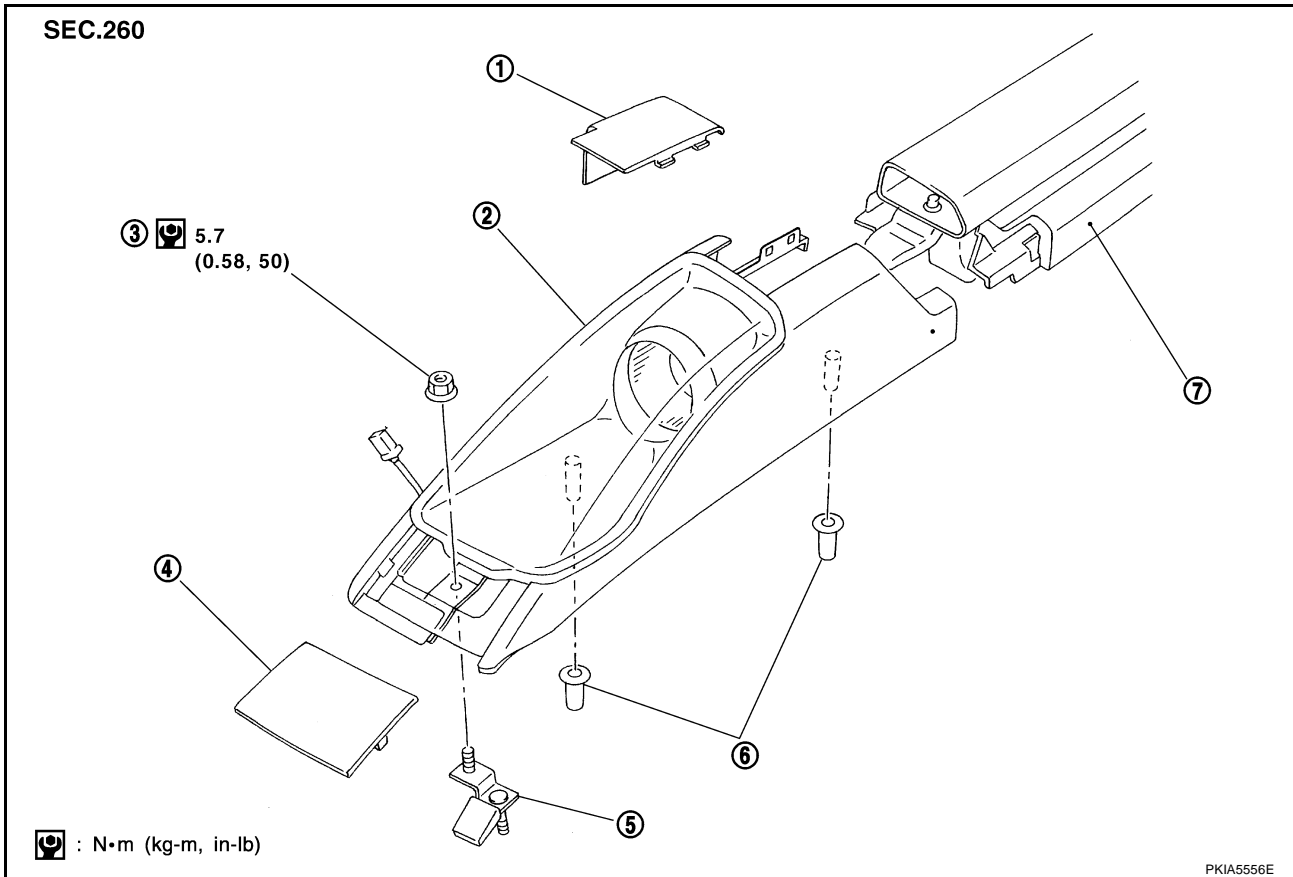
#### Headlamp mounting bolts

Tightening torque :  5.5 N·m (0.55 kg-m, 48 in-lb)

# HEADLAMP

## Removal and Installation for Driving Lamp

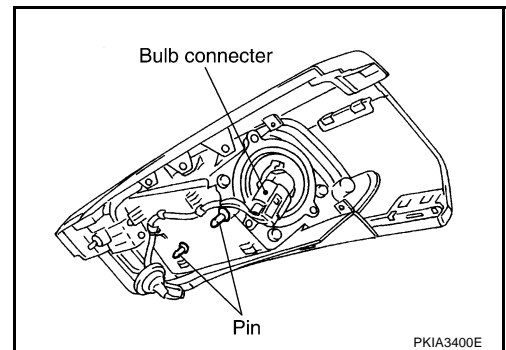
EKS00APA



- |                |                          |            |
|----------------|--------------------------|------------|
| 1. Cap (rear)  | 2. Driving lamp assembly | 3. Nut     |
| 4. Cap (front) | 5. Driving lamp bracket  | 6. Grommet |
| 7. Roof rail   |                          |            |

### REMOVAL

1. Remove cap (front) and cap (rear).
2. Remove driving lamp mounting nut.
3. Pull the front of driving lamp toward upper side so that undo the pin from the roof panel.
4. Remove rear end of driving lamp from roof rail.
5. Pull out driving lamp from vehicle and disconnect connector.



### INSTALLATION

- Install driving lamp in the reverse order of removal, observing the tightening torque shown below.

**Driving lamp mounting nut**

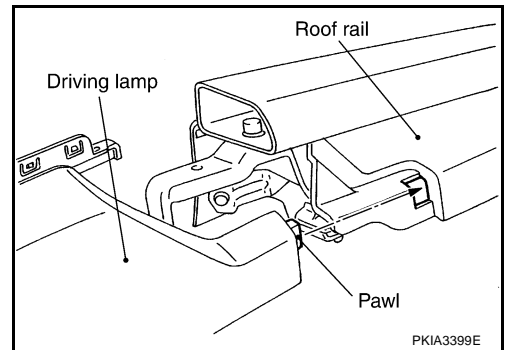
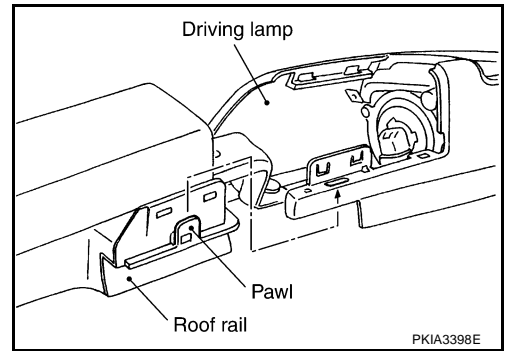
**Tightening torque**

: Ⓐ 5.7 N·m (0.58 kg-m, 50 in-lb)

# HEADLAMP

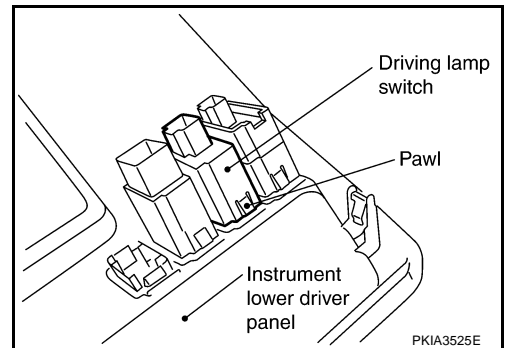
## CAUTION:

- Make sure the pawl shown in figure be connected correctly.



## Removal and Installation for Driving Lamp Switch

1. Remove the Instrument lower driver panel. Refer to [IP-11](#), "[Removal and Installation](#)" in "INSTRUMENT PANEL ASSEMBLY (IP)" section.
2. Press the driving lamp switch fixing pawls and remove it from the Instrument lower driver panel.



# HEADLAMP - DAYTIME LIGHT SYSTEM -

## HEADLAMP - DAYTIME LIGHT SYSTEM -

PFP:26010

### System Description DESCRIPTION

EKS003BB

The headlamp system on vehicles for North Europe contains a daytime light control unit. The unit activates the following whenever the engine is running with the lighting switch in the OFF position:

- Low beam headlamps
- Parking, license, tail and illumination lamps

Power is supplied at all times

- through 10A fuse (No. 31, located in the fuse and fusible link box)
- to daytime light control unit terminal 1 and
- to lighting switch terminal 11.

Power is also supplied at all times

- through 15A fuse (No. 41, located in the fuse and fusible link box)
- to daytime light control unit terminal 3 and
- to lighting switch terminal 5.

Power is also supplied at all times

- through 15A fuse (No. 40, located in the fuse and fusible link box)
- to daytime light control unit terminal 2 and
- to lighting switch terminal 8.

With the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 13, located in the fuse block (J/B)]
- to daytime light control unit terminal 7.

With the ignition switch in the START position, power is supplied

- through 10A fuse [No. 7, located in the fuse block (J/B)]
- to daytime light control unit terminal 6.

### HEADLAMP OPERATION (DAYTIME LIGHT CANCEL OPERATION)

When the lighting switch is turned to the 1st or 2nd position, power is supplied

- through lighting switch terminal 12
- to daytime light control unit terminal 11.

Then daytime light will be canceled. And the lighting system operation will be the same as no daytime light system.

### DAYTIME LIGHT OPERATION

With the engine running and the lighting switch in the OFF position, power is supplied

- from alternator terminal 3
- to daytime light control unit terminal 8,
- through daytime light control unit terminal 5
- to terminal 3 of headlamp LH,
- through daytime light control unit terminal 4
- to terminal 3 of headlamp RH and
- through daytime light control unit terminal 10
- to tail lamp and illumination.

Ground is supplied to terminal 2 of each headlamp through body grounds E24 and E50.

### DRIVING LAMP OPERATION

To turn the driving lamp on, push the driving lamp switch when the lighting switch is turned to the 2ND position and placed in HIGH position or PASS position, power is supplied

- from lighting switch terminal 9
- to headlamp LH terminal 1
- to driving lamp relay-1 terminal 1

## HEADLAMP - DAYTIME LIGHT SYSTEM -

- to driving lamp switch terminal 7
- to combination meter terminal 20 for the HIGH BEAM indicator
- to driving lamp relay-2 terminal 5
- to driving lamp relay-2 terminal 3
- through driving lamp switch terminal 6
- from driving lamp relay-1 terminal 5
- to driving lamp LH and RH terminal 2.

Ground is supplied

- to driving lamp relay-1 terminal 2, through driving lamp relay-2 terminal 7
- to driving lamp relay-2 terminal 6, through grounds E24 and E50
- to driving lamp switch terminal 4, through driving lamp relay-2 terminal 1
- to driving lamp relay-2 terminal 2, through grounds E24 and E50
- to driving lamp LH terminal 1, through ground R8
- to driving lamp RH terminal 1 and 3, through ground R8
- to combination meter terminal 19, through grounds M27 and M70
- to each headlamp terminal 2, through grounds E24 and E50.

With power and ground supplied, the high beams, driving lamp and the HIGH BEAM indicator illuminate.

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## Schematic

**DR** : With driving lamp

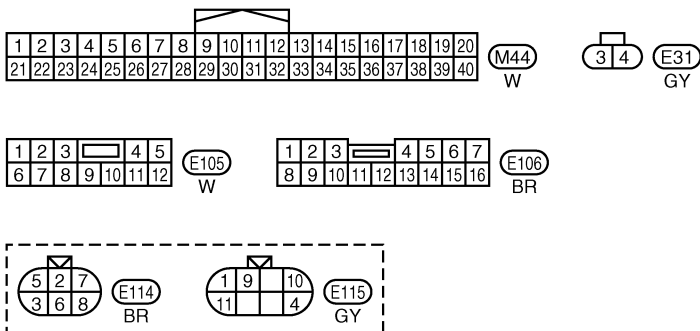
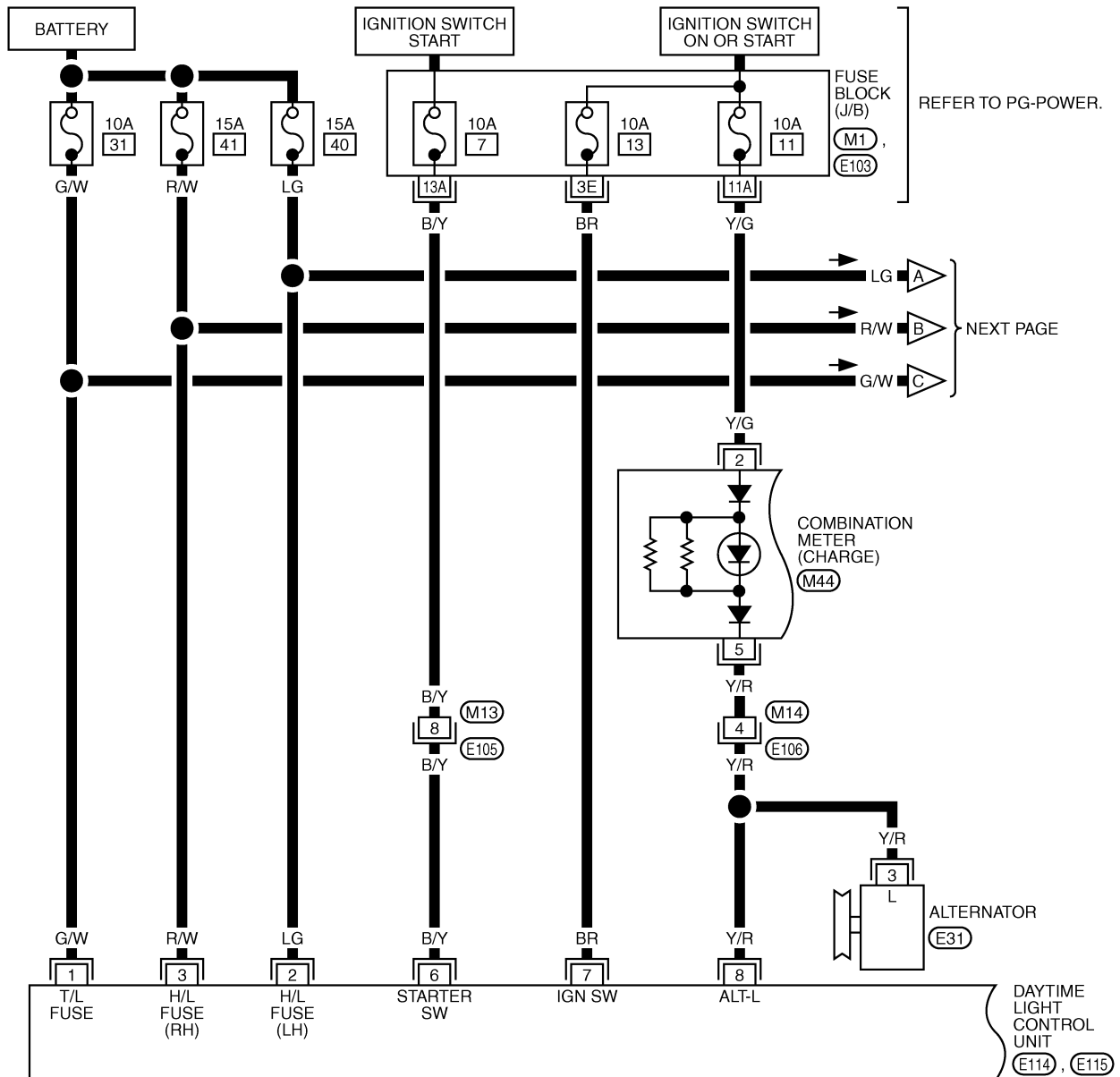


# HEADLAMP - DAYTIME LIGHT SYSTEM -

## Wiring Diagram -DTRL-

EKS003BD

LT-DTRL-01

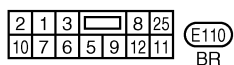


REFER TO THE FOLLOWING.

M1, E103 -FUSE BLOCK-JUNCTION BOX (J/B)

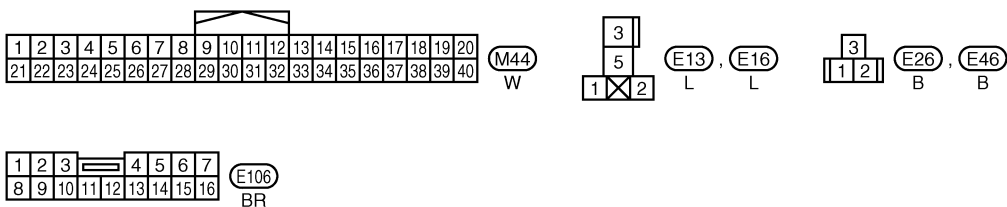
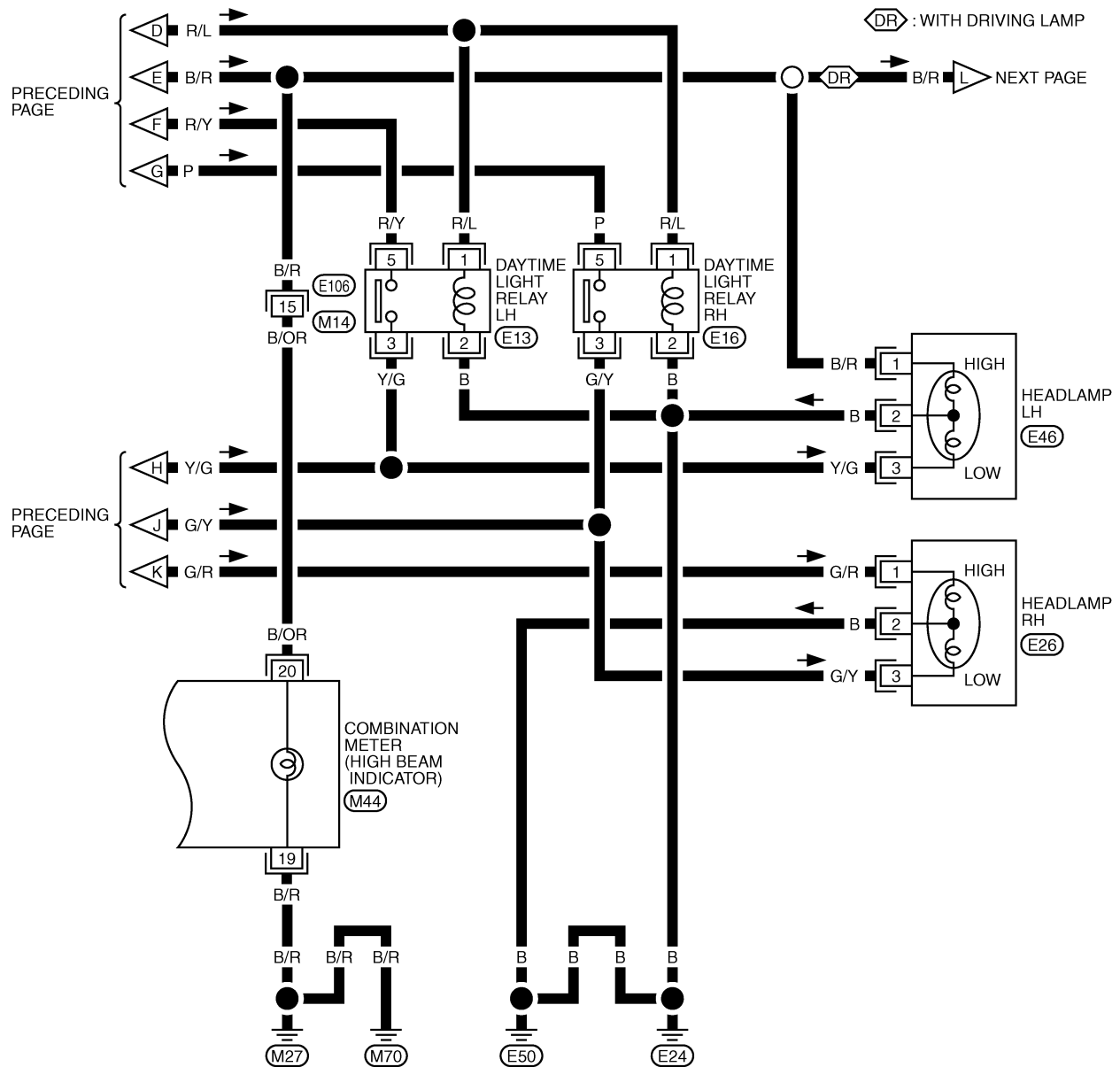
TKWA1522E

## LT-DTRL-02



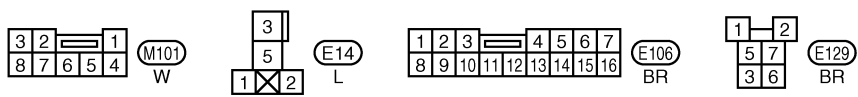
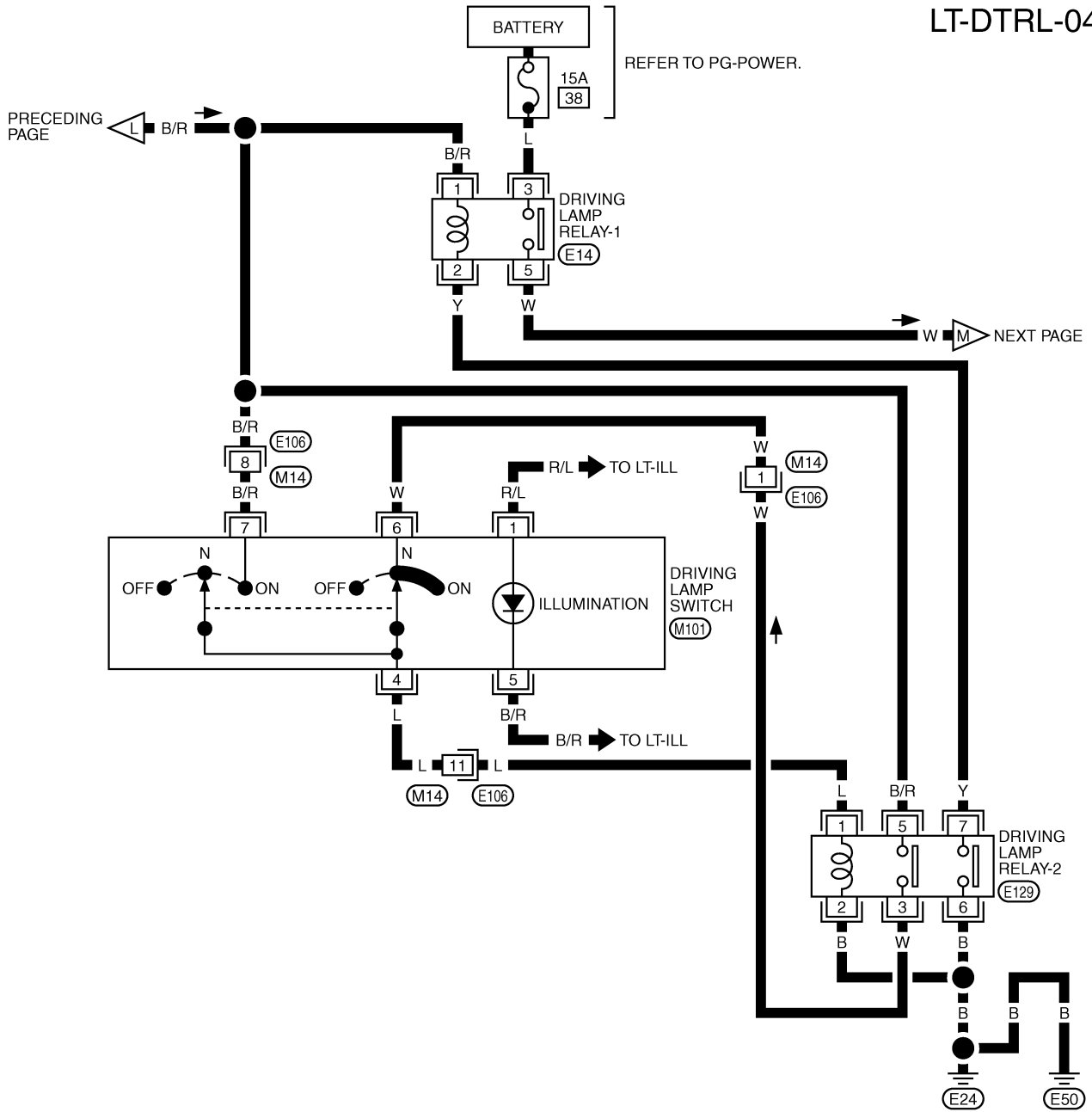


LT-DTRL-03



# HEADLAMP - DAYTIME LIGHT SYSTEM -

LT-DTRL-04



TKWA1524E

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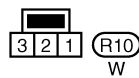
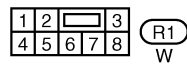
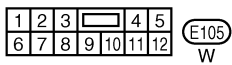
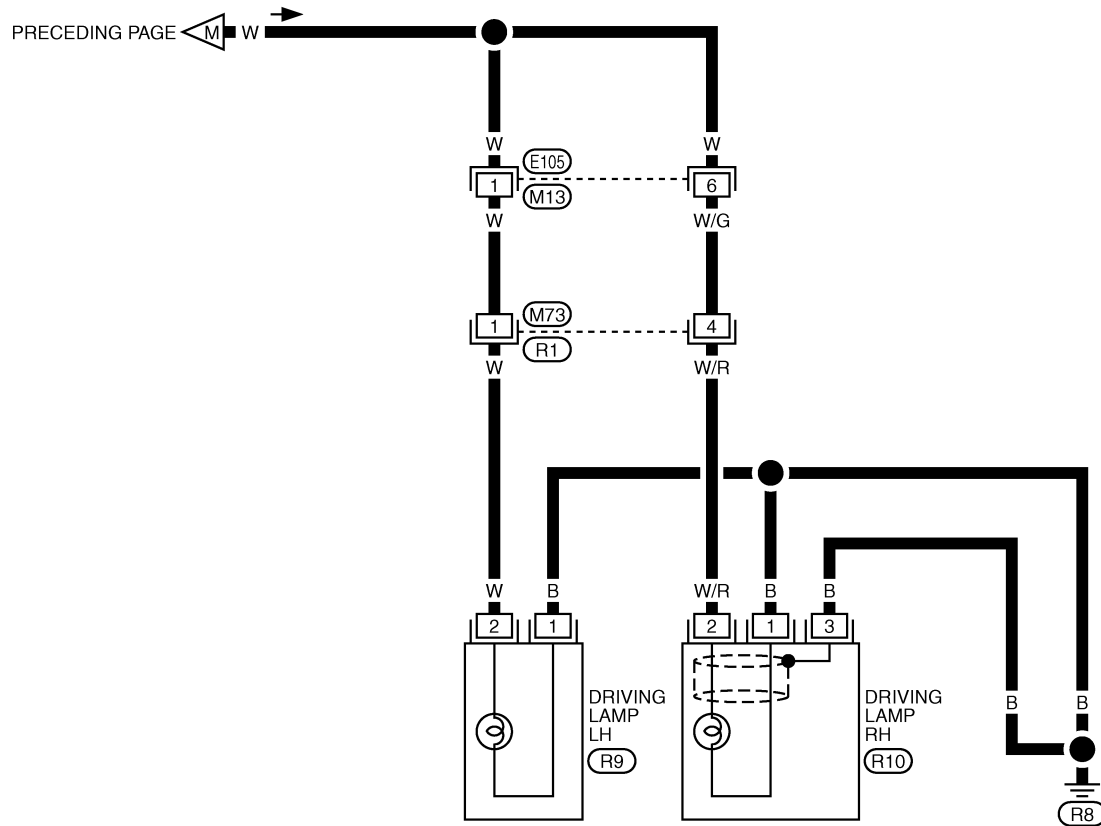
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# HEADLAMP - DAYTIME LIGHT SYSTEM -

## Trouble Diagnoses

EKS003CO

### DAYTIME LIGHT CONTROL UNIT INSPECTION TABLE

Terminal No.	Wire color	Connections	INPUT (I)/ OUTPUT (O)	Operated condition		Voltage
1	G/W	Power source for illumination & tail lamp	—	—		Battery voltage
2	LG	Power source for headlamp LH	—	—		Battery voltage
3	R/W	Power source for headlamp RH	—	—		Battery voltage
4	G/Y	Headlamp RH	O	ON (daytime light operating*)		Battery voltage
				OFF		Approx. 0V
5	Y/G	Headlamp LH	O	ON (daytime light operating*)		Battery voltage
				OFF		Approx. 0V
6	B/Y	Start signal	I	Ignition switch	START	Battery voltage
					ON, ACC or OFF	Approx. 0V
7	BR	IGN power supply	—	Ignition switch	ON or START	Battery voltage
					ACC or OFF	Approx. 0V
8	Y/R	Alternator "L" terminal	I	Engine	Running	Battery voltage
					Stopped	Approx. 0V
9	B	Ground	—	—		—
10	R/L	Illumination & tail lamp	O	ON (daytime light operating*)		Battery voltage
				OFF		Approx. 0V
11	R/L	Lighting switch	I	1ST·2ND position		Battery voltage
				OFF		Approx. 0V

\*: Daytime light operating: Lighting switch in "OFF" position with engine running.

## Bulb Replacement

EKS003CP

Refer to [LT-16, "Bulb Replacement for Headlamp and Clearance lamp"](#) or [LT-17, "Bulb Replacement for Driving Lamp"](#).

## Aiming Adjustment

EKS003BE

Refer to [LT-14, "Aiming Adjustment for Headlamp"](#) or [LT-15, "Aiming Adjustment for Driving Lamp"](#).

## Removal and Installation

EKS003ES

Refer to [LT-17, "Removal and Installation for Headlamp"](#) or [LT-18, "Removal and Installation for Driving Lamp"](#).

# HEADLAMP AIMING CONTROL

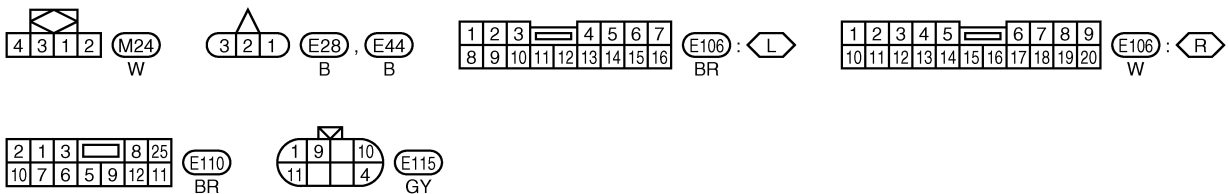
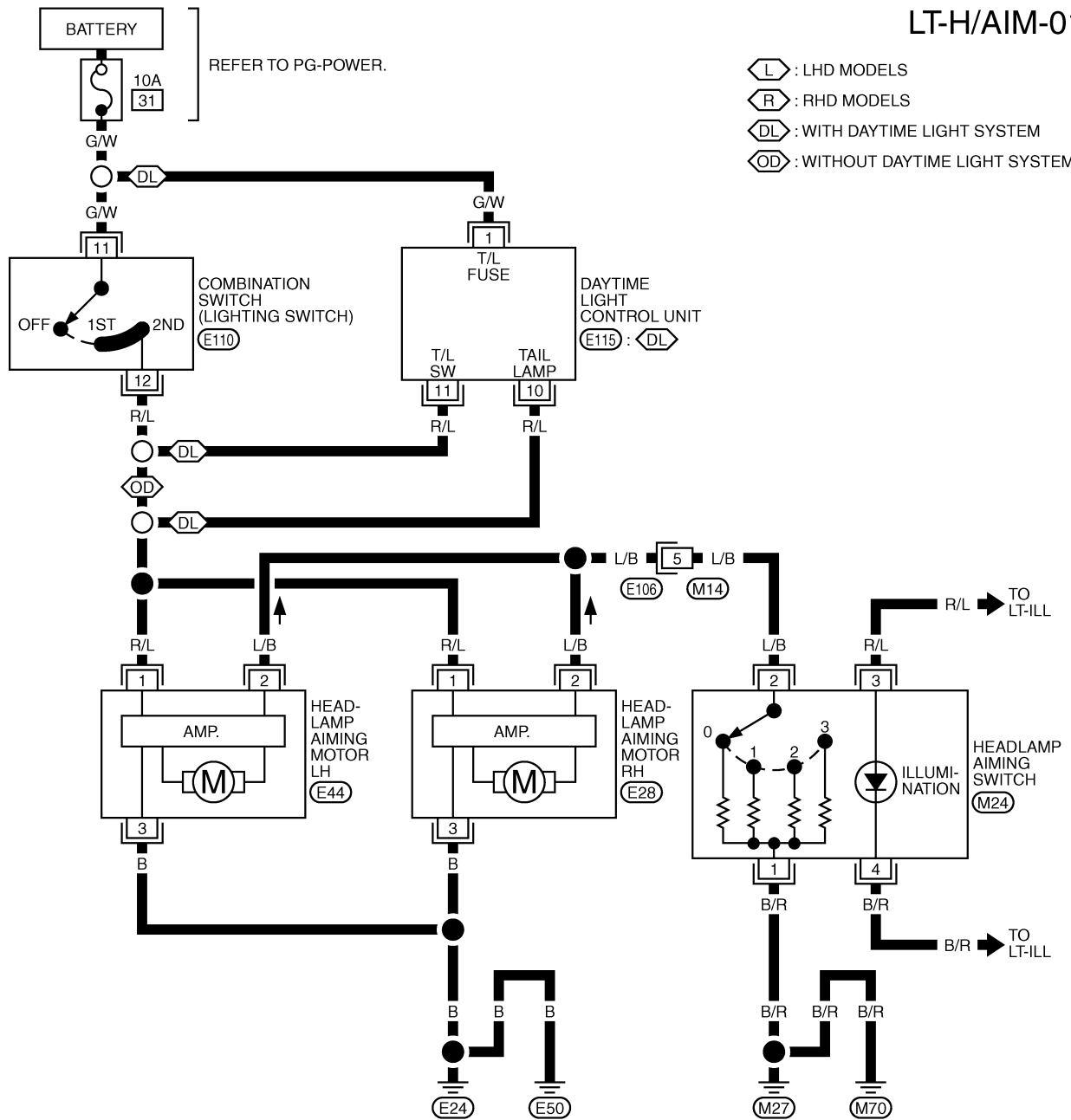
## HEADLAMP AIMING CONTROL

PFP:26010

### Wiring Diagram -H/AIM-

EKS003BF

#### LT-H/AIM-01

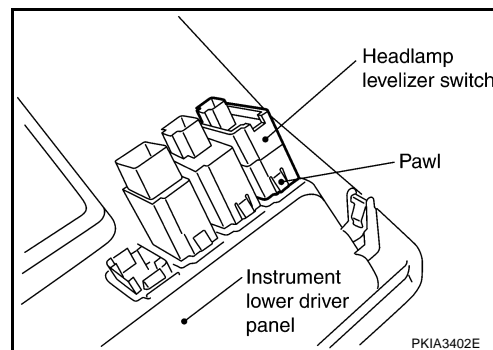


# HEADLAMP AIMING CONTROL

## Removal and Installation

EKS003CA

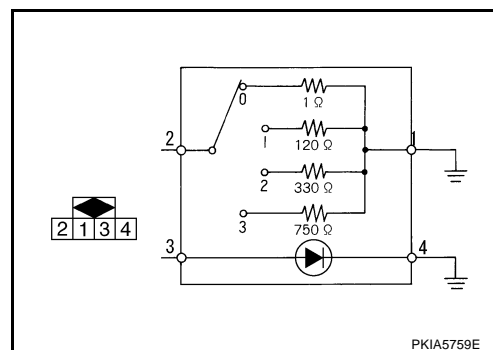
1. Remove the Instrument lower driver panel. Refer to [IP-11, "Removal and Installation"](#) in "INSTRUMENT PANEL ASSEMBLY (IP)" section.
2. Press the headlamp aiming switch fixing pawls and remove it from the Instrument lower driver panel.



## Switch Circuit Inspection

EKS003CB

Using a circuit tester, check continuity between the headlamp aiming switch connector terminals in each operation status of the aiming switch.



# TURN SIGNAL AND HAZARD WARNING LAMPS

## TURN SIGNAL AND HAZARD WARNING LAMPS

PFP:26120

### System Description

EKS003BX

#### TURN SIGNAL OPERATION

With the hazard switch in the OFF position and the ignition switch in the ON or START position, power is supplied

- through 10A fuse [No. 2, located in the fuse block (J/B)]
- to hazard switch terminal 2
- through hazard switch terminal 1
- to combination flasher unit terminal 1
- through combination flasher unit terminal 3
- to turn signal switch terminal 1.

Ground is supplied

- to combination flasher unit terminal 2 through grounds M27 and M70.

#### LH Turn

When the turn signal switch is moved to the LH position, power is supplied from turn signal switch terminal 3

- to front turn signal lamp LH terminal 1
- to side turn signal lamp LH terminal 1
- to combination meter terminal 52
- to rear combination lamp LH terminal 2.

Ground is supplied

- to the front turn signal lamp LH terminal 2 through grounds E24 and E50
- to the side turn signal lamp LH terminal 2 through grounds E24 and E50
- to the rear combination lamp LH terminal 4 through grounds B8 and B18
- to combination meter terminal 64 through grounds M27 and M70.

With power and ground supplied, the combination flasher unit controls the flashing of the LH turn signal lamps.

#### RH Turn

When the turn signal switch is moved to the RH position, power is supplied from turn signal switch terminal 2

- to front turn signal lamp RH terminal 1
- to side turn signal lamp RH terminal 1
- to combination meter terminal 18
- to rear combination lamp RH terminal 2.

Ground is supplied

- to the front turn signal lamp RH terminal 2 through grounds E24 and E50
- to the side turn signal lamp RH terminal 2 through grounds E24 and E50
- to the rear combination lamp RH terminal 4 through grounds B8 and B18
- to combination meter terminal 64 through grounds M27 and M70.

With power and ground supplied, the combination flasher unit controls the flashing of the RH turn signal lamps.

#### HAZARD LAMP OPERATION

Power is supplied at all times to hazard switch terminal 3

- through 10A fuse (No. 35, located in the fuse and fusible link box).

With the hazard switch in the ON position, power is supplied

- through hazard switch terminal 1
- to combination flasher unit terminal 1
- through combination flasher unit terminal 3
- to hazard switch terminal 4.

Ground is supplied

- to combination flasher unit terminal 2 through grounds M27 and M70.

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## TURN SIGNAL AND HAZARD WARNING LAMPS

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Power is supplied

- through hazard switch terminal 5
- to front turn signal lamp LH terminal 1
- to side turn signal lamp LH terminal 1
- to combination meter terminal 52
- to rear combination lamp LH terminal 2.

Power is supplied

- through hazard switch terminal 6
- to front turn signal lamp RH terminal 1
- to side turn signal lamp RH terminal 1
- to combination meter terminal 18
- to rear combination lamp RH terminal 2.

Ground is supplied

- to each front and side turn signal lamp terminal 2 through grounds E24 and E50
- to each rear combination lamp terminal 4 through grounds B8 and B18
- to combination meter terminal 64 through grounds M27 and M70.

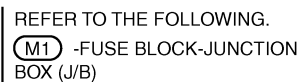
With power and ground supplied, the combination flasher unit controls the flashing of the hazard warning lamps.



## Wiring Diagram — TURN — LHD MODELS

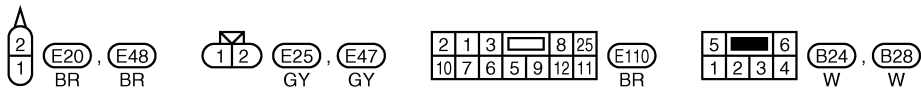
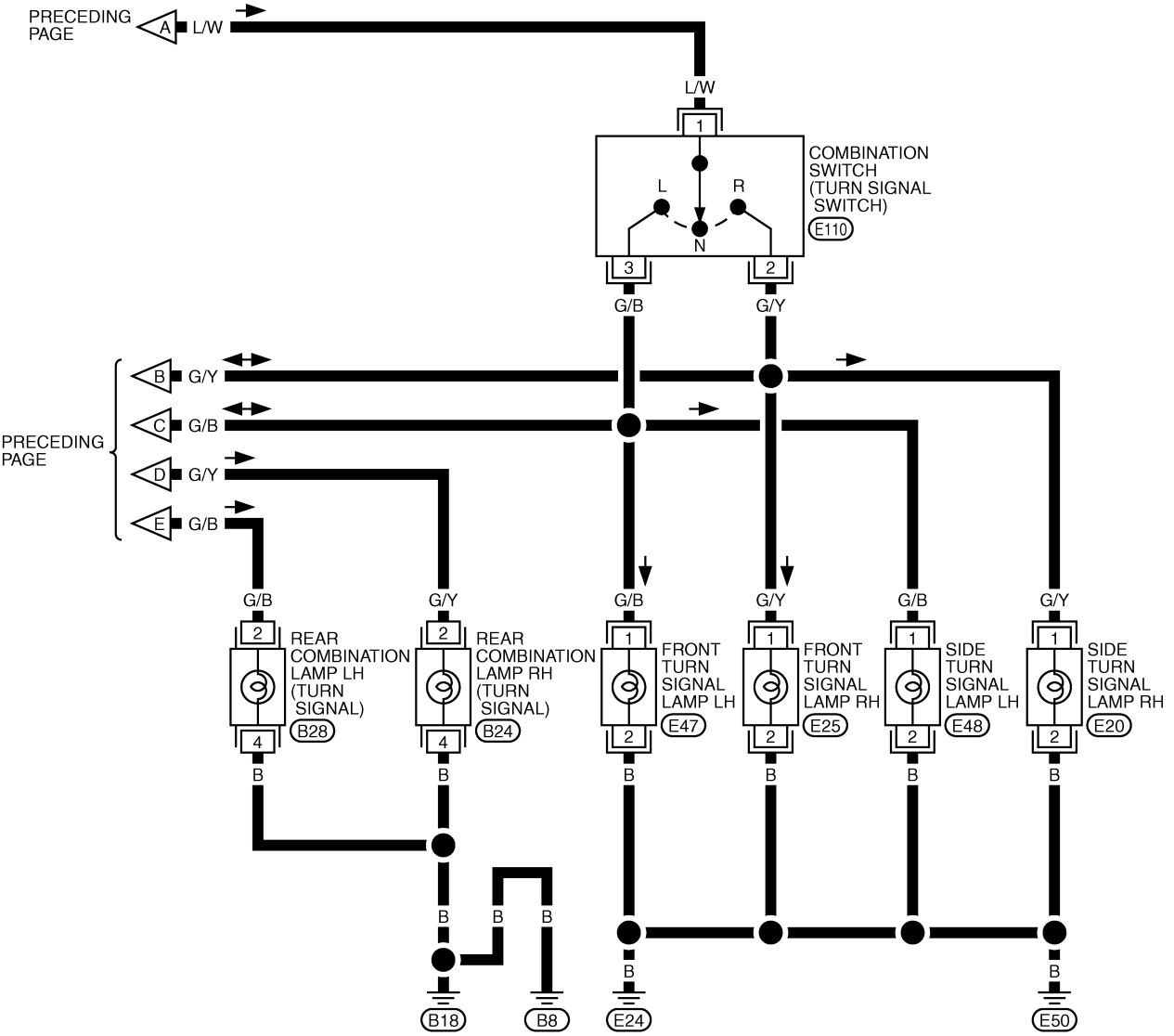
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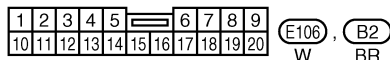
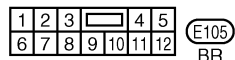
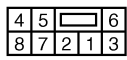
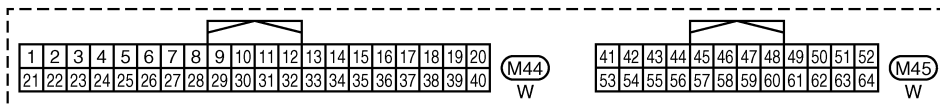
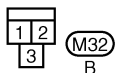
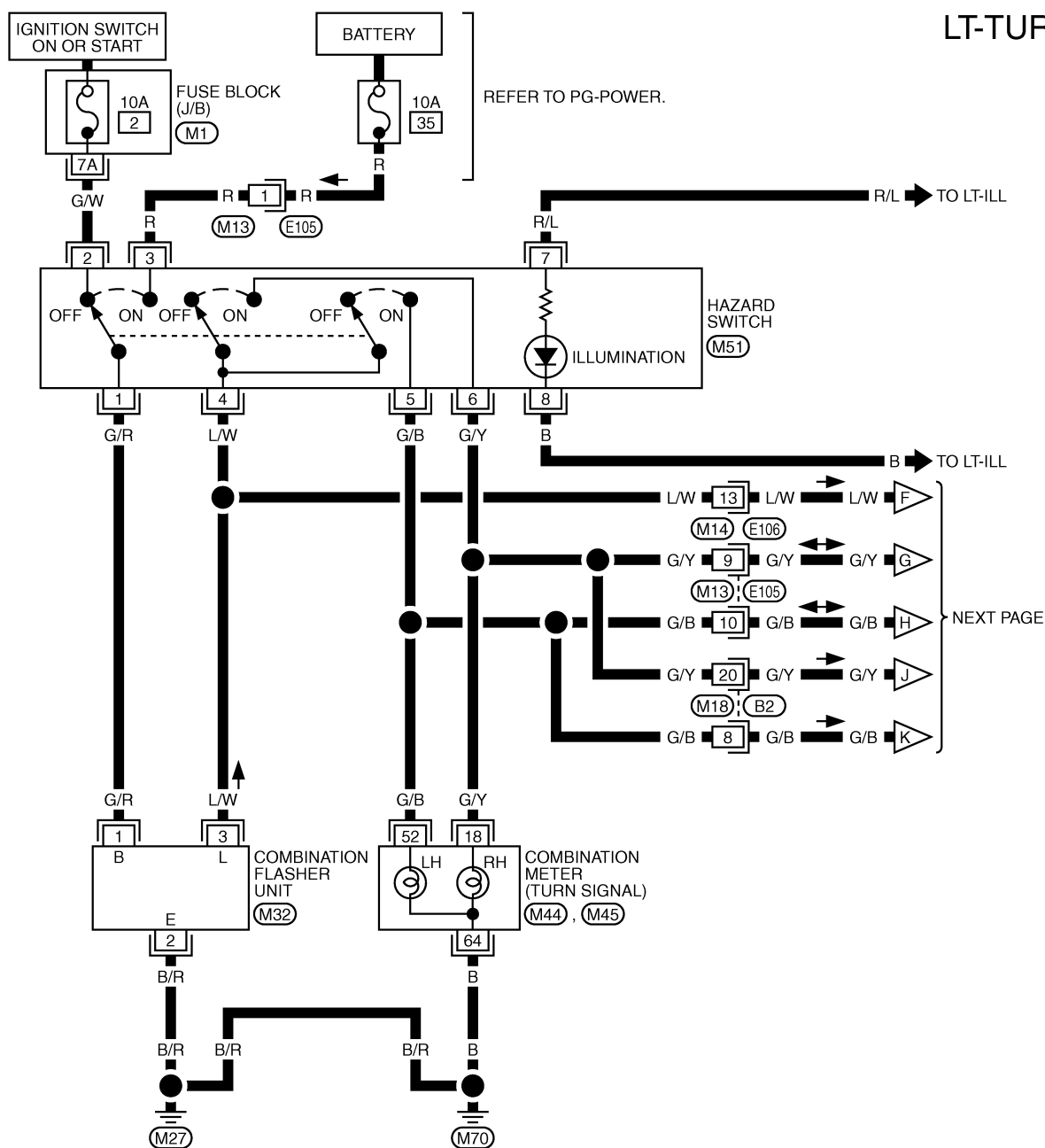
TURN SIGNAL AND HAZARD WARNING LAMPS

LT-TURN-02

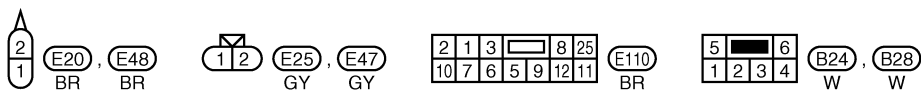
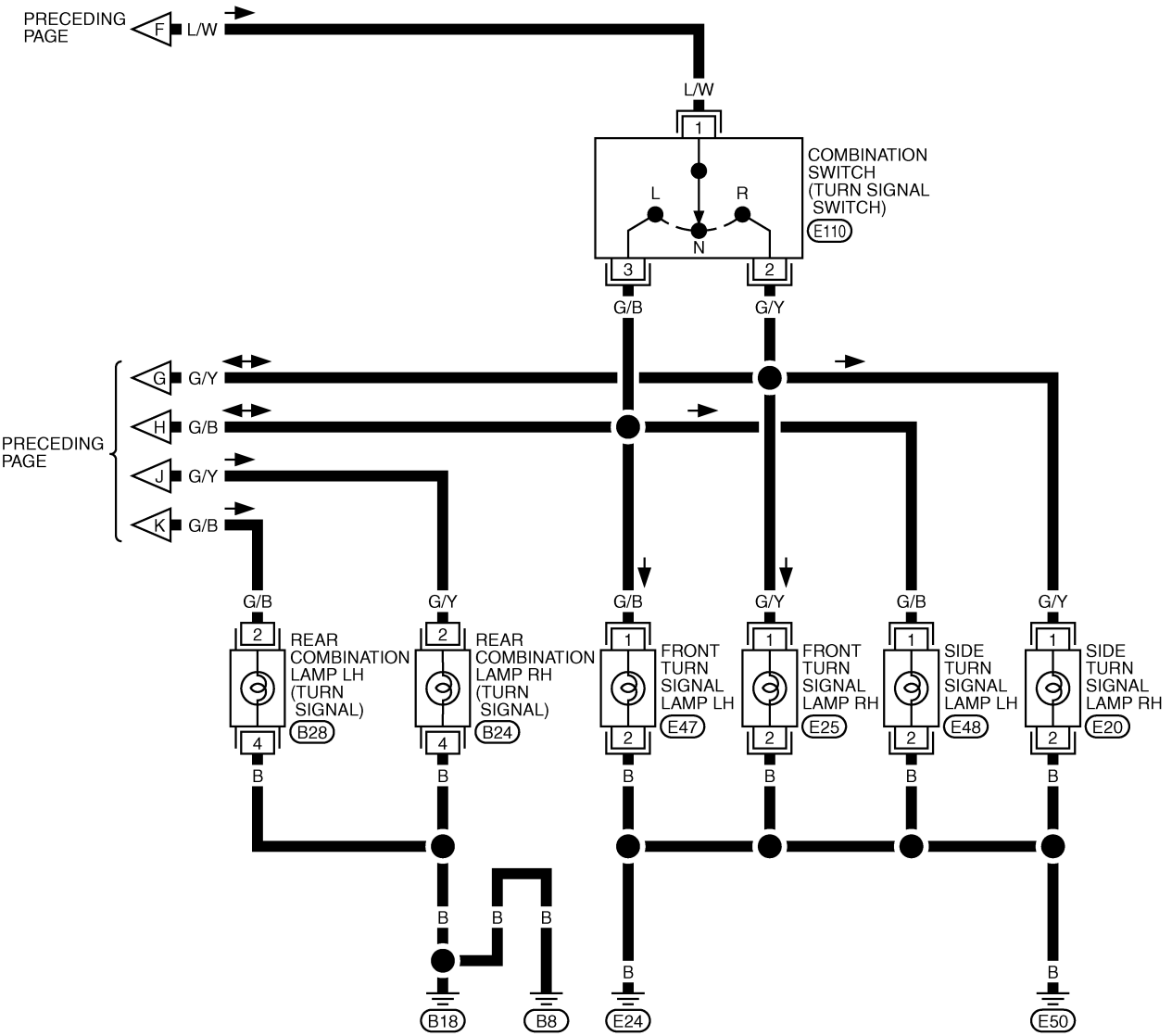


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## LT-TURN-03



REFER TO THE FOLLOWING.  
**(M1)** -FUSE BLOCK-JUNCTION  
 BOX (J/B)



# TURN SIGNAL AND HAZARD WARNING LAMPS

## Trouble Diagnoses

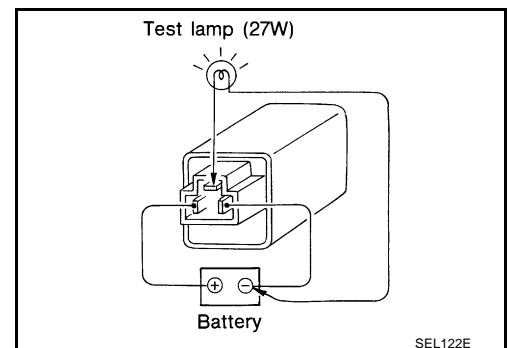
EKS003BG

Symptom	Possible cause	Repair order
Turn signal and hazard warning lamps do not operate.	<ol style="list-style-type: none"> <li>1. Hazard switch</li> <li>2. Combination flasher unit</li> <li>3. Open in combination flasher unit circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Check hazard switch.</li> <li>2. Refer to combination flasher unit check.</li> <li>3. Check wiring to combination flasher unit for open circuit.</li> </ol>
Turn signal lamps do not operate but hazard warning lamps operate.	<ol style="list-style-type: none"> <li>1. 10A fuse</li> <li>2. Hazard switch</li> <li>3. Turn signal switch</li> <li>4. Open in turn signal switch circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Check 10A fuse [No. 2, located in fuse block (J/B)]. Turn ignition switch ON and verify battery positive voltage is present at terminal 2 of hazard switch.</li> <li>2. Check hazard switch.</li> <li>3. Check turn signal switch.</li> <li>4. Check the wire between combination flasher unit terminal 3 and turn signal switch terminal 1 for open circuit.</li> </ol>
Hazard warning lamps do not operate but turn signal lamps operate.	<ol style="list-style-type: none"> <li>1. 10A fuse</li> <li>2. Hazard switch</li> <li>3. Open in hazard switch circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Check 10A fuse (No. 35, located in the fuse and fusible link box). Verify battery positive voltage is present at terminal 3 of hazard switch.</li> <li>2. Check hazard switch.</li> <li>3. Check the wire between combination flasher unit terminal 3 and hazard switch terminal 4 for open circuit.</li> </ol>
Front turn signal lamp LH or RH does not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds E24 and E50</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check grounds E24 and E50.</li> </ol>
Rear turn signal lamp LH or RH does not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds B8 and B18</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check grounds B8 and B18.</li> </ol>
Side turn signal lamp LH or RH does not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> <li>2. Grounds E24 and E50</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb.</li> <li>2. Check grounds E24 and E50.</li> </ol>
LH and RH turn indicators do not operate.	<ol style="list-style-type: none"> <li>1. Ground</li> </ol>	<ol style="list-style-type: none"> <li>1. Check grounds M27 and M70.</li> </ol>
LH or RH turn indicator does not operate.	<ol style="list-style-type: none"> <li>1. Bulb</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bulb in combination meter.</li> </ol>

## Electrical Components Inspection COMBINATION FLASHER UNIT CHECK

EKS0034C

- Before checking, ensure that bulbs meet specifications.
- Connect a battery and test lamp to the combination flasher unit, as shown. Combination flasher unit is properly functioning if it blinks when power is supplied to the circuit.



# TURN SIGNAL AND HAZARD WARNING LAMPS

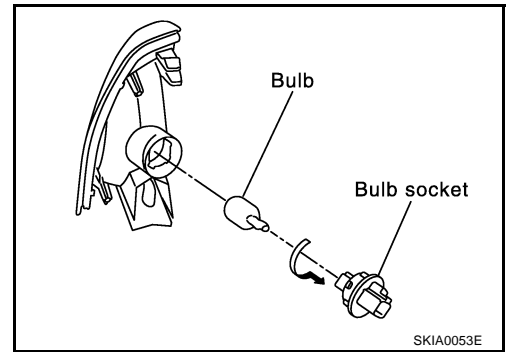
## Bulb Replacement

### FRONT TURN SIGNAL LAMP

EKS0034D

1. Remove the front turn signal lamp. Refer to [LT-38, "Removal and Installation for Front Turn Signal Lamp"](#)
2. Turn the bulb socket counterclockwise and unlock it.
3. Remove the bulb from its socket.

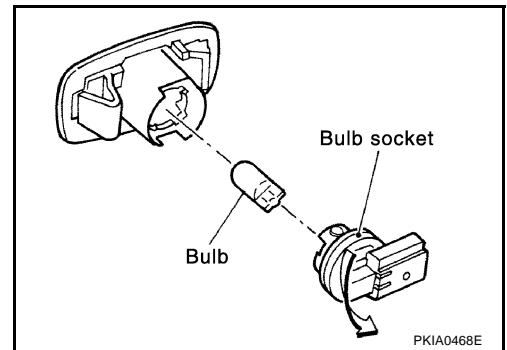
Front turn signal lamp : 12V 21W (amber)



### SIDE TURN SIGNAL LAMP

1. Remove side turn signal lamp. Refer to [LT-38, "Removal and Installation for Side Turn Signal Lamp"](#)
2. Turn the bulb socket counterclockwise and unlock it.
3. Remove the bulb from its socket.

Side turn signal lamp : 12V 5W



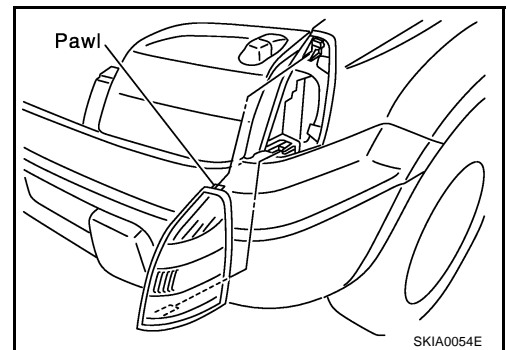
### REAR TURN SIGNAL LAMP

Refer to [LT-63, "Bulb Replacement"](#).

## Removal and Installation for Front Turn Signal Lamp REMOVAL

EKS003BH

1. Press the upper pawl to remove front turn signal lamp toward the front of the vehicle.
2. Disconnect front turn signal lamp connector.



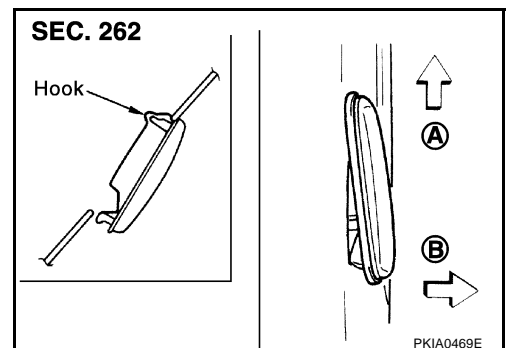
## INSTALLATION

1. Connect front turn signal lamp connector.
2. Insert the pawl into head lamp hole, and install front turn signal lamp.

## Removal and Installation for Side Turn Signal Lamp

EKS003BI

1. Push the side turn signal lamp toward A direction in the figure, and pull up B direction in the figure.
2. Disconnect the side turn signal lamp connector.



Removal and Installation for Rear Turn Signal Lamp

EKS003BJ

Refer to [LT-63, "Removal and Installation"](#) .

A

B

C

D

E

F

G

H

I

J

LT

L

M

# LIGHTING AND TURN SIGNAL SWITCH

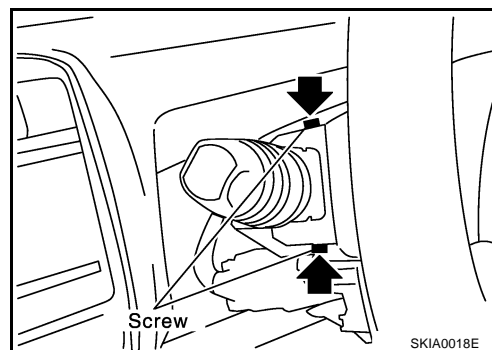
## LIGHTING AND TURN SIGNAL SWITCH

PFP:25540

### Removal and Installation

EKS0034F

1. Remove the steering column cover. Refer to [PS-10, "STEERING COLUMN"](#) in "POWER STEERING SYSTEM (PS)" section.
2. Remove two screws, then remove the lighting and turn signal switch from the spiral cable.
3. Disconnect the lighting and turn signal switch connector.



### Switch Circuit Inspection

EKS0034G

Using circuit tester, check continuity between the lighting and turn signal switch connector terminals in each operation status of the switch.

Lighting switch is refer to [LT-7, "Wiring Diagram — H/LAMP —"](#).

Turn signal lamp switch is refer to [LT-33, "Wiring Diagram — TURN —"](#).

Front fog lamp switch is refer to [LT-53, "Wiring Diagram — F/FOG —"](#).

Rear fog lamp switch is refer to [LT-57, "Wiring Diagram -R/FOG-/Without Front Fog Lamp"](#), [LT-58, "Wiring Diagram -R/FOG-/With Front Fog Lamp"](#).



# HAZARD SWITCH

## HAZARD SWITCH

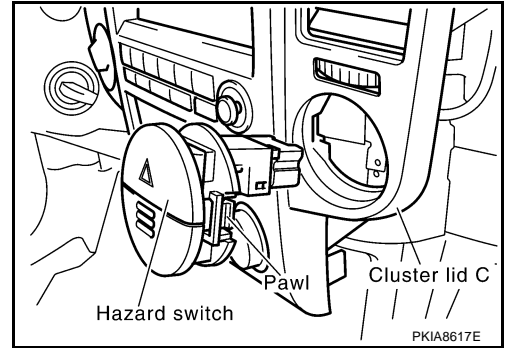
PFP:25290

### Removal and Installation

EKS003BZ

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-10, "INSTRUMENT PANEL ASSEMBLY"](#) in "INSTRUMENT PANEL (IP)" section.
2. Press the hazard switch fixing pawls and remove it from the cluster lid C.



#### INSTALLATION

Installation is in the reverse order of removal.

A

B

C

D

E

F

G

H

I

J

LT

L

M

STOP LAMP

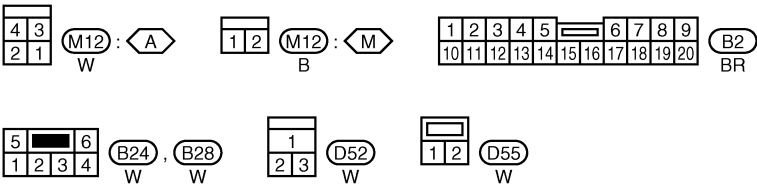
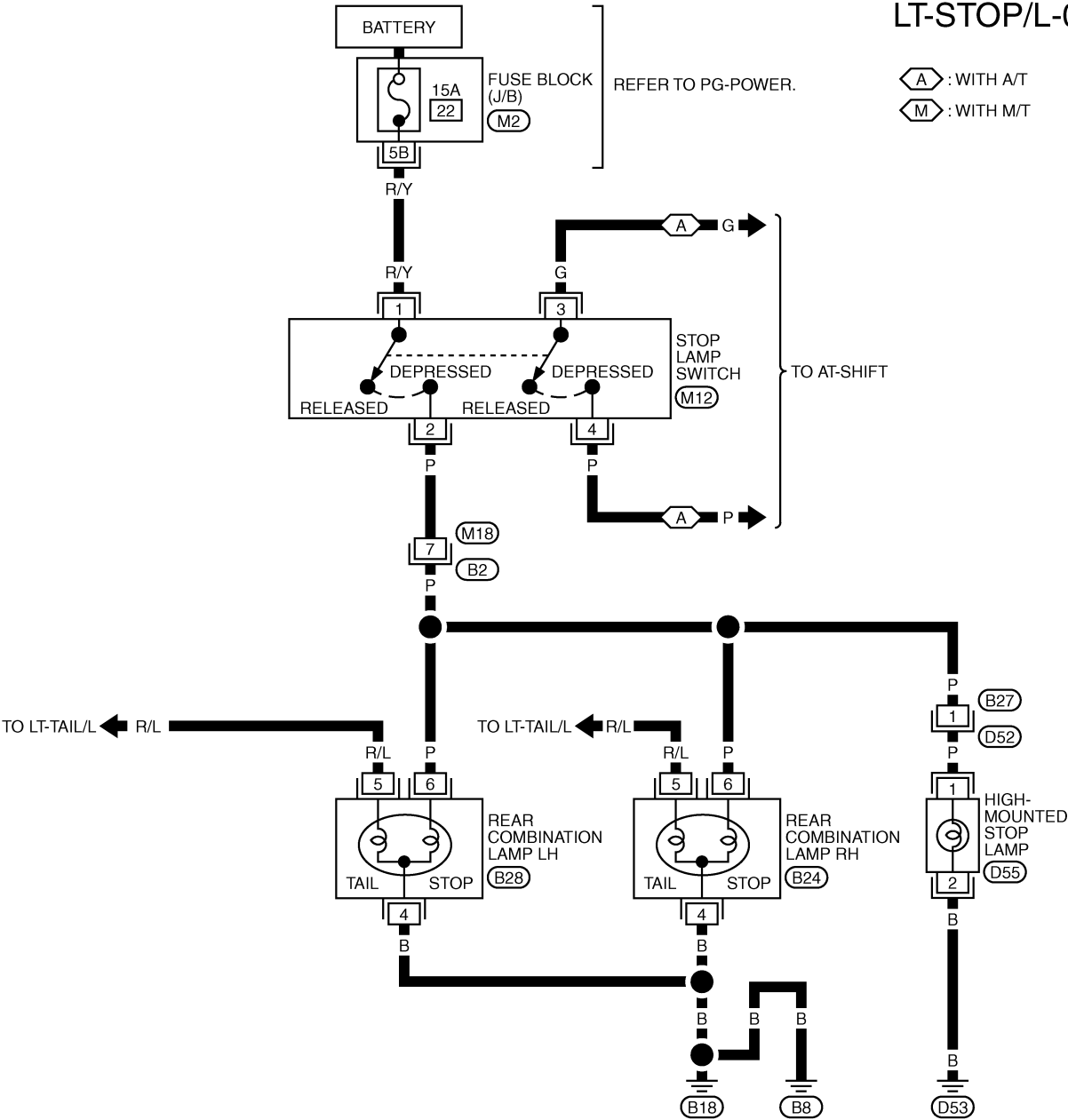
STOP LAMP

PFP:26550

Wiring Diagram — STOP/L —

EKS0034I

LT-STOP/L-01



REFER TO THE FOLLOWING.  
(M2) -FUSE BLOCK-JUNCTION BOX (J/B)

# STOP LAMP

## Bulb Replacement STOP LAMP

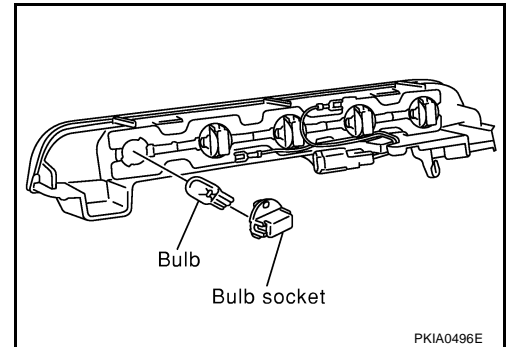
EKS0034K

Refer to [LT-63, "Bulb Replacement"](#) .

### HIGH-MOUNTED STOP LAMP

1. Remove the high-mounted stop lamp cover. Refer to [LT-43, "HIGH-MOUNTED STOP LAMP"](#) .
2. Turn the high-mounted stop lamp bulb socket counterclockwise and unlock it.
3. Remove the bulb.

**High-mounted Stop Lamp : 12V 5W**



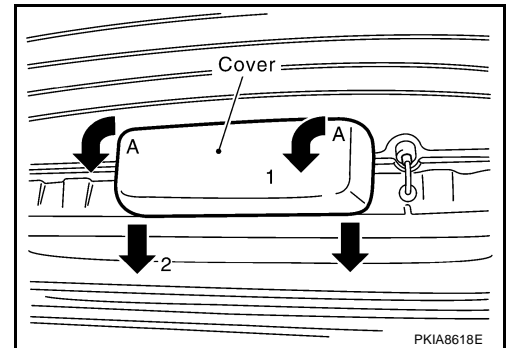
## Removal and Installation STOP LAMP

EKS0034L

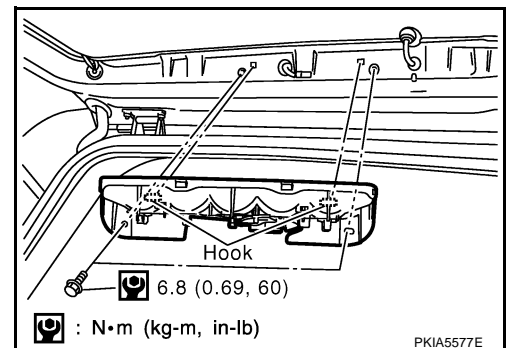
Refer to [LT-63, "Removal and Installation"](#) .

### HIGH-MOUNTED STOP LAMP

1. Pull the edge of the cover (A in the figure below) to each side in turn downward until the pawls inside the cover are released.
2. Pull down the cover toward under the vehicle.



3. Remove the high-mounted stop lamp mounting bolts.
4. Disconnect the high-mounted stop lamp connector and remove it from the vehicle.



# BACK-UP LAMP

PFP:26550

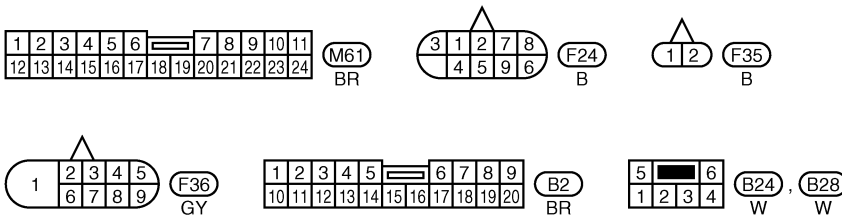
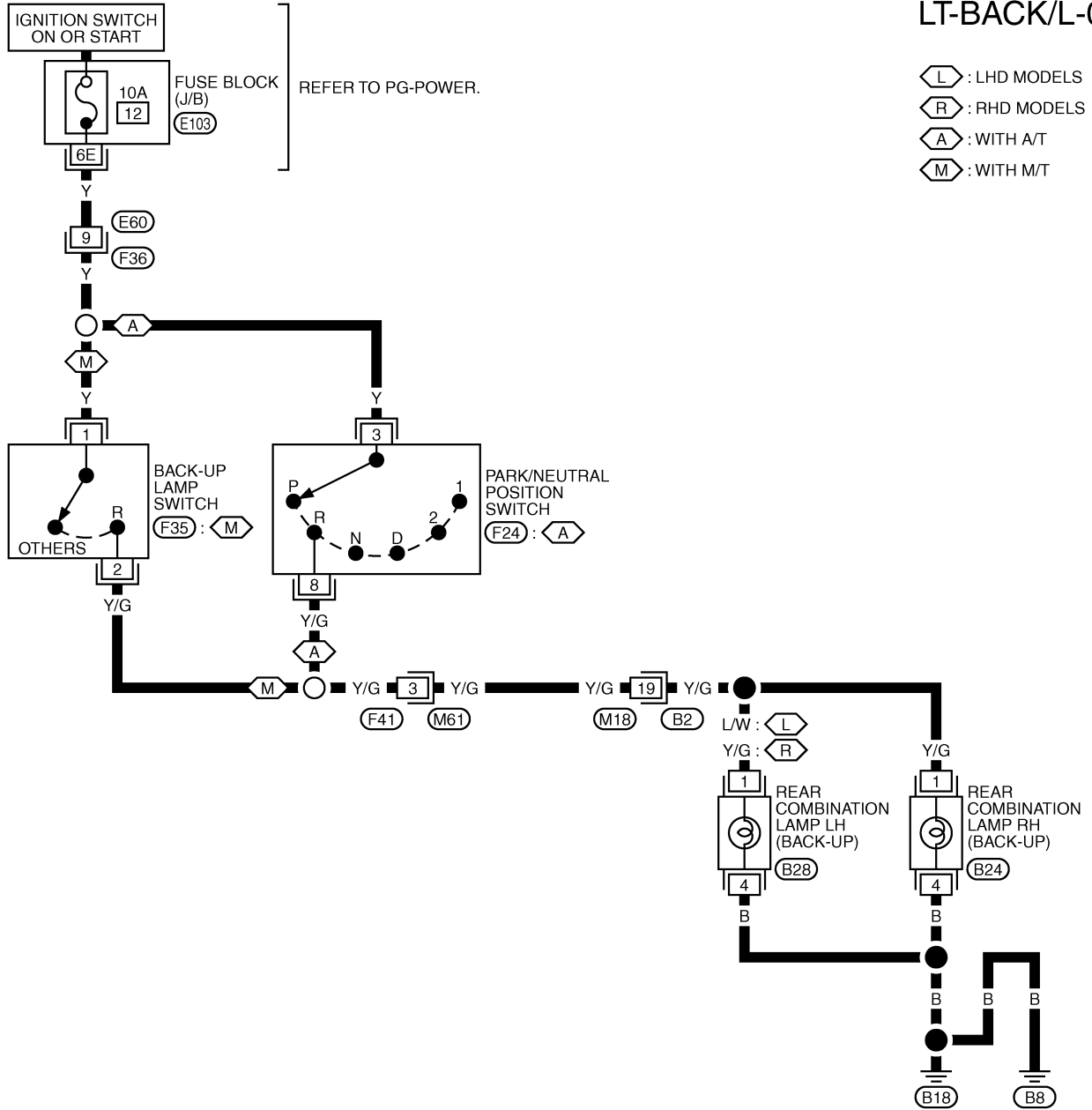
EKS003C3

## BACK-UP LAMP

### Wiring Diagram — BACK/L — GASOLINE ENGINE

#### LT-BACK/L-01

- L : LHD MODELS
- R : RHD MODELS
- A : WITH A/T
- M : WITH M/T

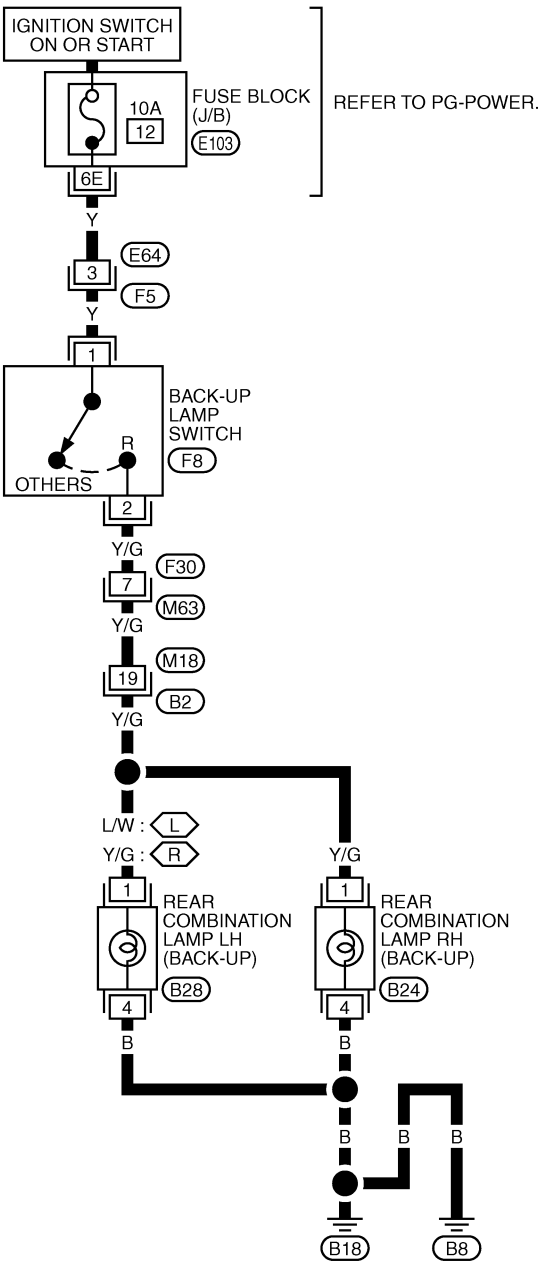


REFER TO THE FOLLOWING.  
(E103) -FUSE BLOCK-JUNCTION BOX (J/B)

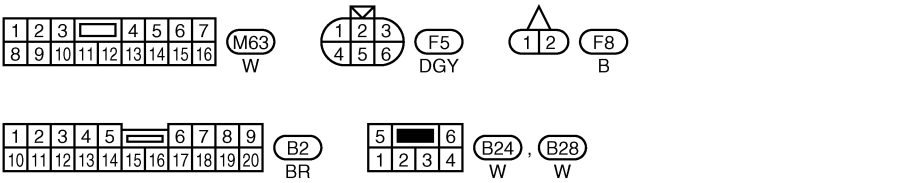
BACK-UP LAMP

DIESEL ENGINE

LT-BACK/L-02



L : LHD MODELS  
R : RHD MODELS



REFER TO THE FOLLOWING.  
E103 -FUSE BLOCK-JUNCTION BOX (J/B)

## BACK-UP LAMP

---

### Bulb Replacement

EKS003C4

Refer to [LT-63, "Bulb Replacement"](#) .

### Removal and Installation

EKS003C5

Refer to [LT-63, "Removal and Installation"](#) .

PARKING, LICENSE PLATE AND TAIL LAMPS

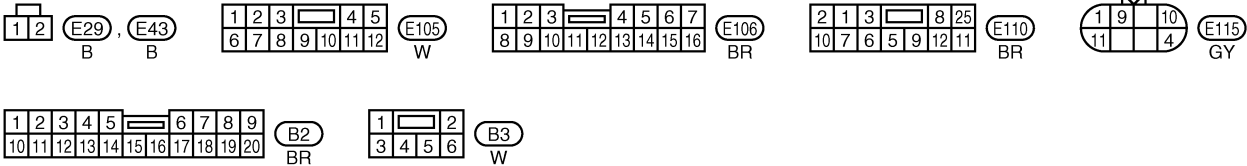
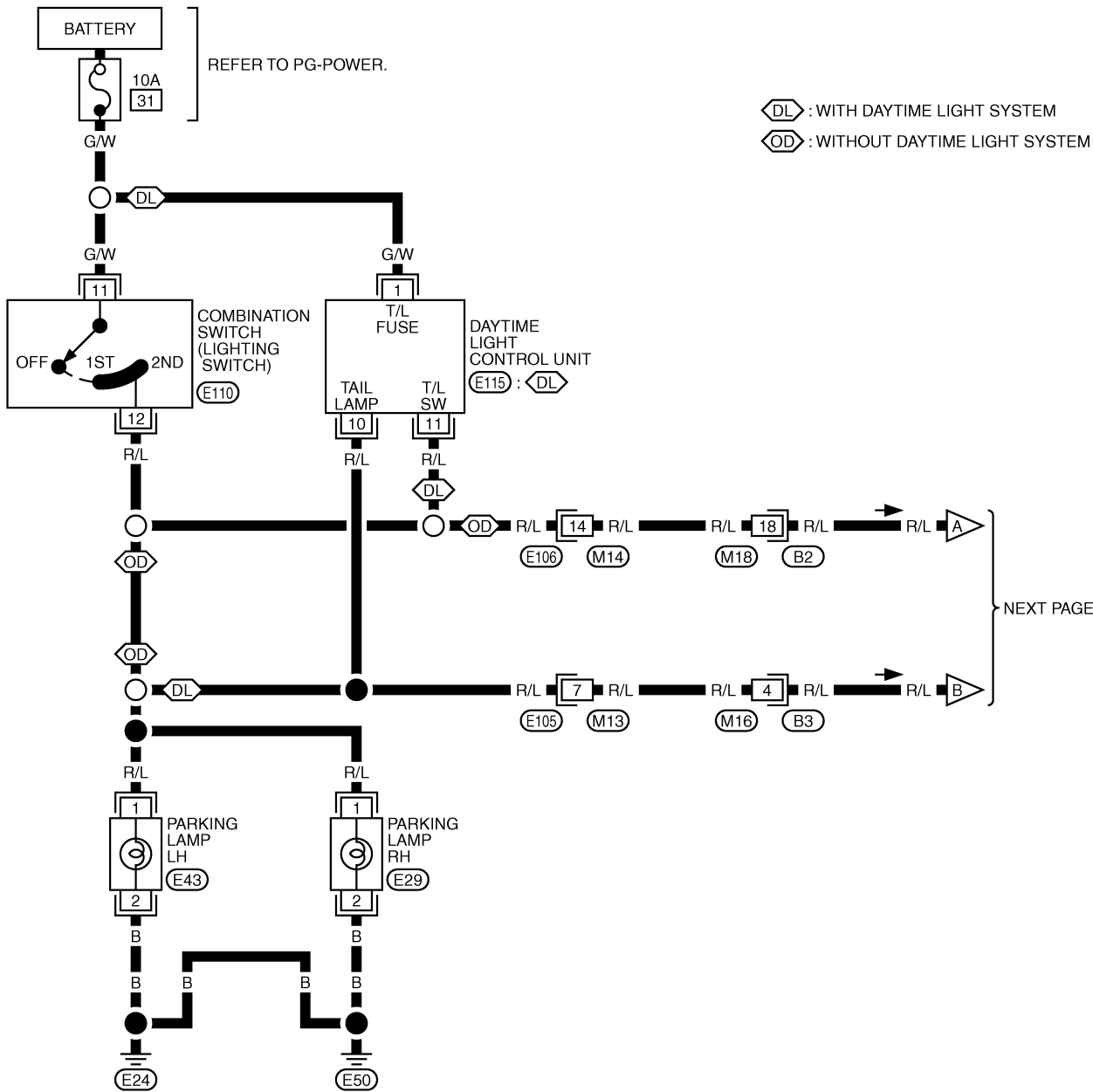
PARKING, LICENSE PLATE AND TAIL LAMPS



PFP:26550

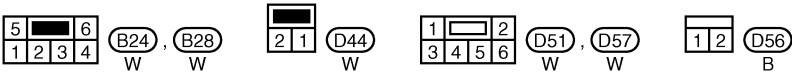
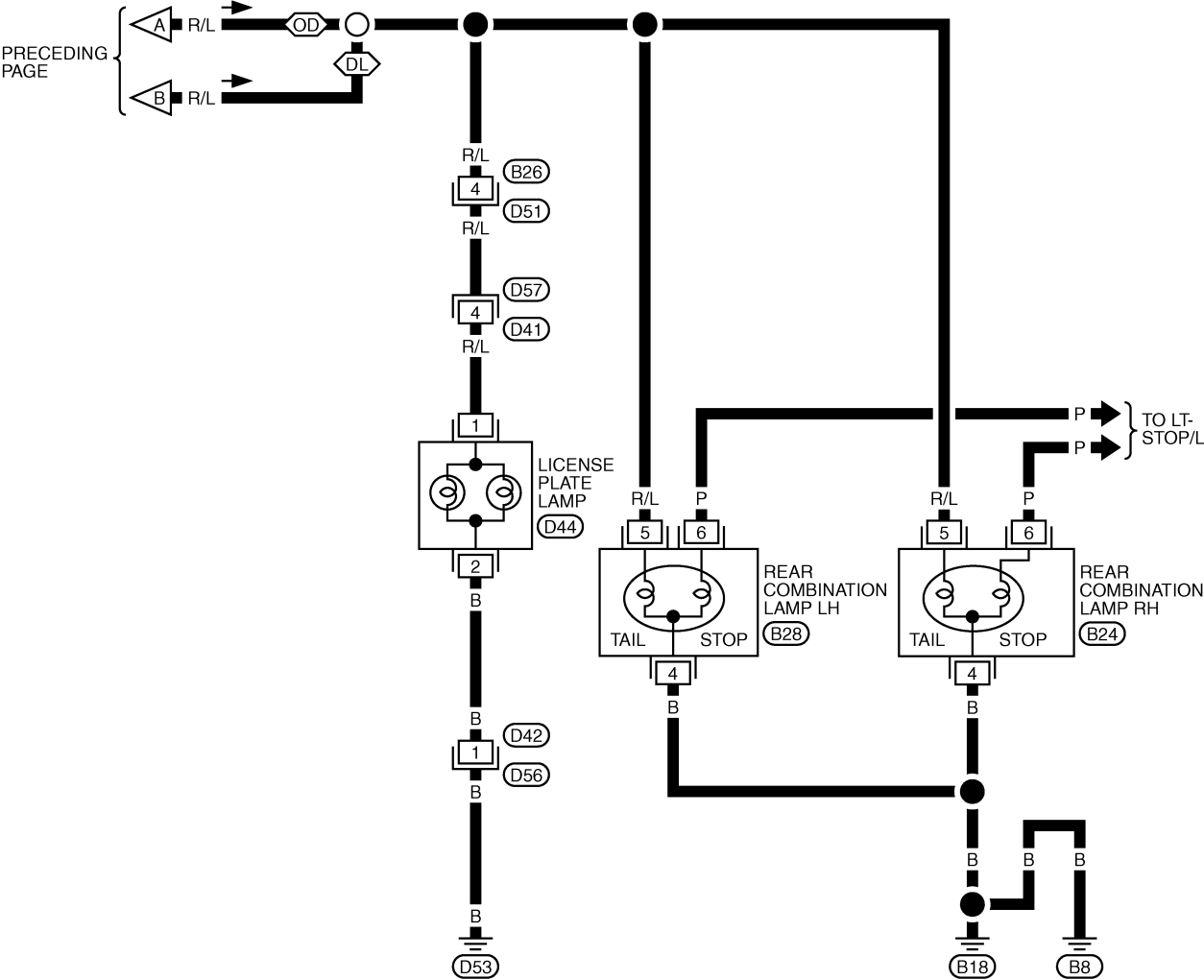
Wiring Diagram — TAIL/L —  
LHD MODELS

EKS003C0

LT-TAIL/L-01



 : WITH DAYTIME LIGHT SYSTEM  
 : WITHOUT DAYTIME LIGHT SYSTEM

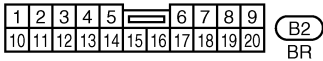
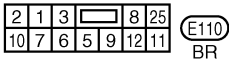
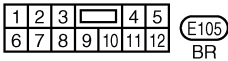
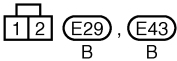
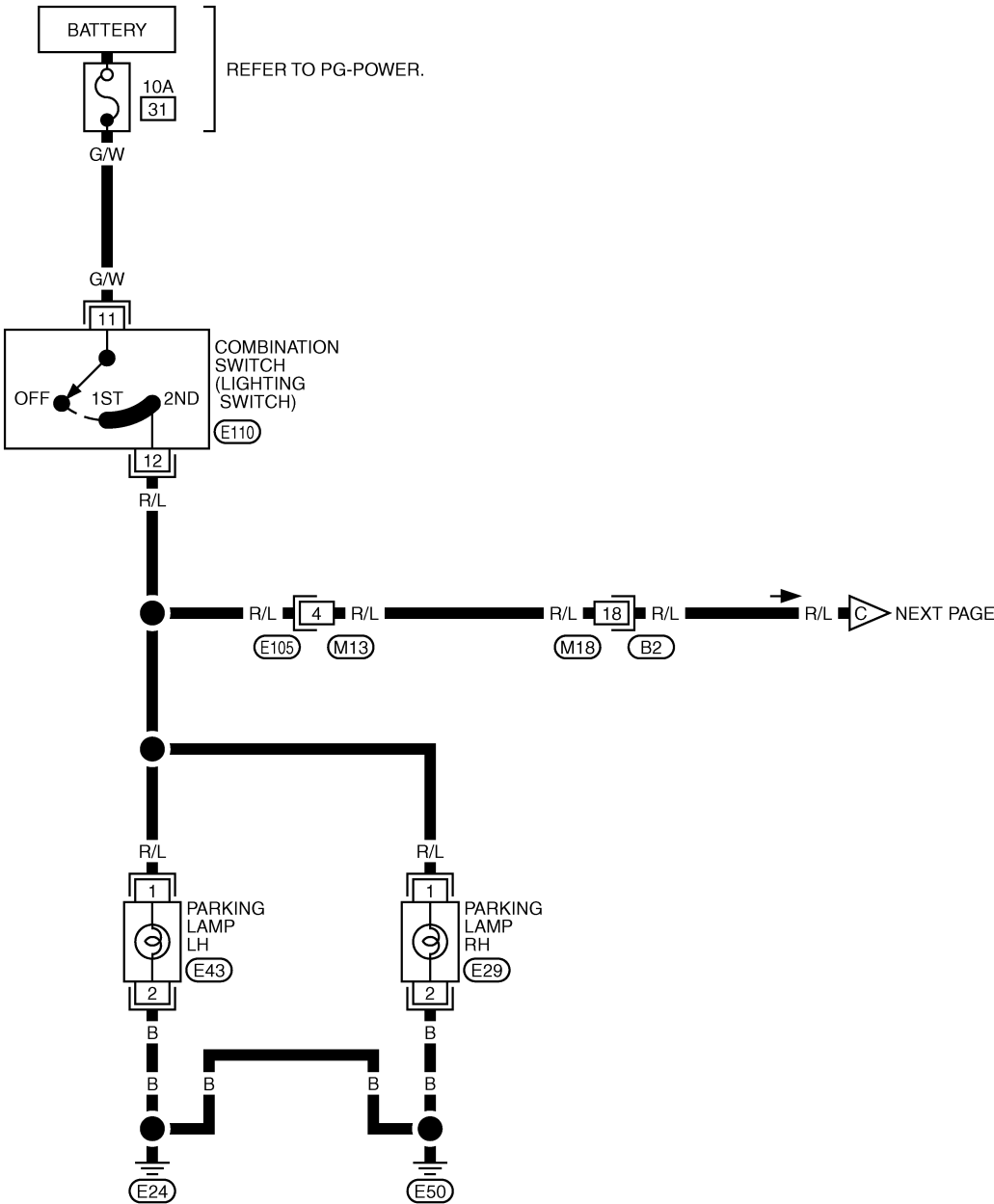


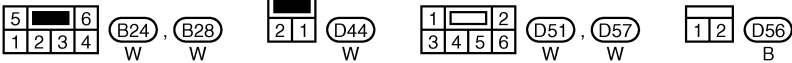
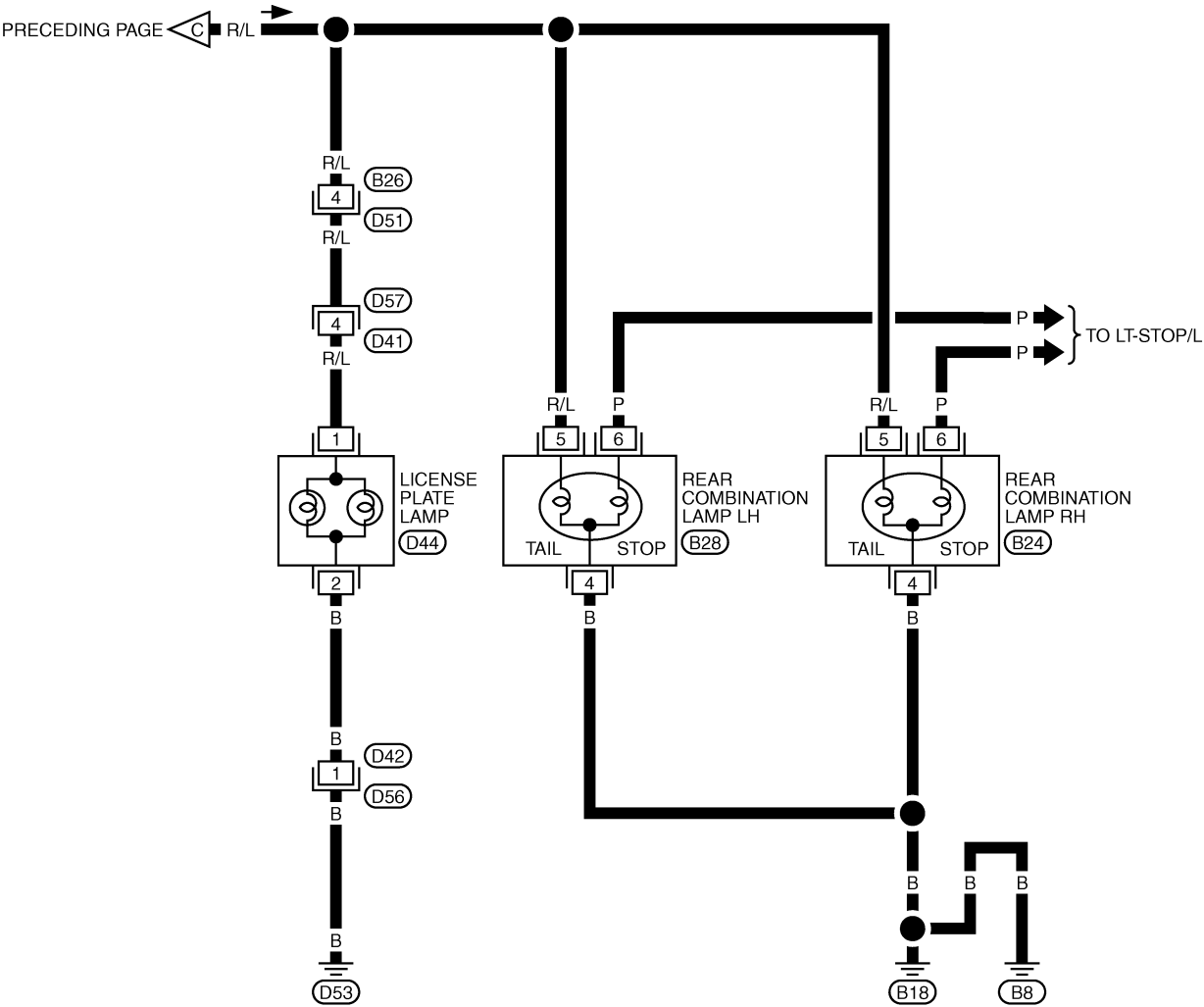


PARKING, LICENSE PLATE AND TAIL LAMPS

RHD MODELS

LT-TAIL/L-03





# PARKING, LICENSE PLATE AND TAIL LAMPS

## Bulb Replacement PARKING AND TAIL LAMPS

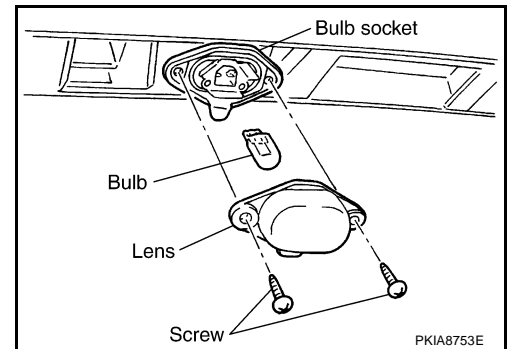
EKS003C1

Refer to [LT-63, "Bulb Replacement"](#) .

### LICENSE PLATE LAMP

1. Remove license plate lamp mounting screws (2).
2. Remove lens of license plate lamp.
3. Remove bulb from its socket.
4. Installation is the reverse of removal.

**License plate lamp : 12V 5W**



## Removal and Installation PARKING AND TAIL LAMPS

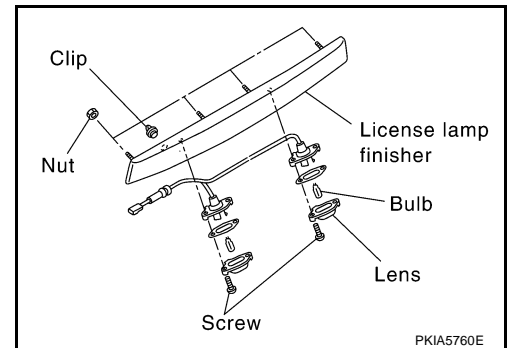
EKS003C2

Refer to [LT-63, "Removal and Installation"](#) .

### LICENSE PLATE LAMP

#### Removal

1. Remove the license lamp finisher. Refer to [EI-31, "LICENSE LAMP FINISHER"](#) in "EXTERIOR & INTERIOR (EI)" section.
2. Remove the harness from installation pawl for harness.
3. Remove license plate lamp mounting screws (2 each, RH and LH).
4. Pull out license plate lamp from license lamp finisher.



#### Installation

- Install license plate lamp in the reverse order of removal, observing the tightening torque shown below.

**License plate lamp mounting screws**

**Tightening torque** :  **1.4 N·m (0.15 kg-m, 13 in-lb)**

# FRONT FOG LAMP

## FRONT FOG LAMP

PFP:00011

### System Description DESCRIPTION

EKS003DF

Power is supplied at all times to front fog lamp relay terminal 3

- through 15A fuse (No. 42, located in the fuse and fusible link box).

With the lighting switch in the 2ND position and LOW position, power is supplied

- through 10A fuse (No. 31, located in the fuse and fusible link box)
- to lighting switch terminal 11
- through lighting switch terminal 12
- to fog lamp switch terminal 32
- through fog lamp switch terminal 31
- to front fog lamp relay terminal 2.

### FOG LAMP OPERATION

The front and rear fog lamp switch is built into the combination switch. The lighting switch must be in the 1st or 2nd position for front fog lamp operation.

With the fog lamp switch in the ON position, ground is supplied

- to front fog lamp relay terminal 1
- through the fog lamp switch and grounds E24 and E50.

The front fog lamp relay is energized and power is supplied

- from front fog lamp relay terminal 5
- to each fog lamp terminal 1
- to combination meter terminal 15.

Ground is supplied

- to each fog lamp terminal 2 through grounds E24 and E50.

With power and ground supplied, the front fog lamps illuminate.

Ground is supplied

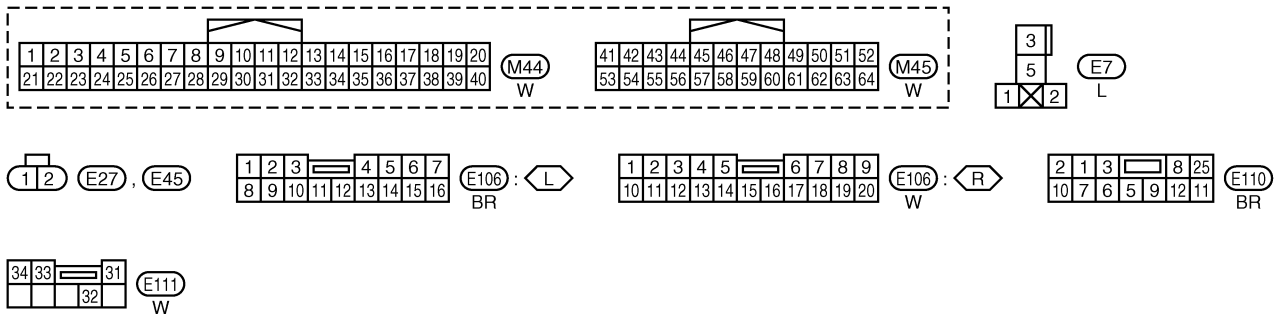
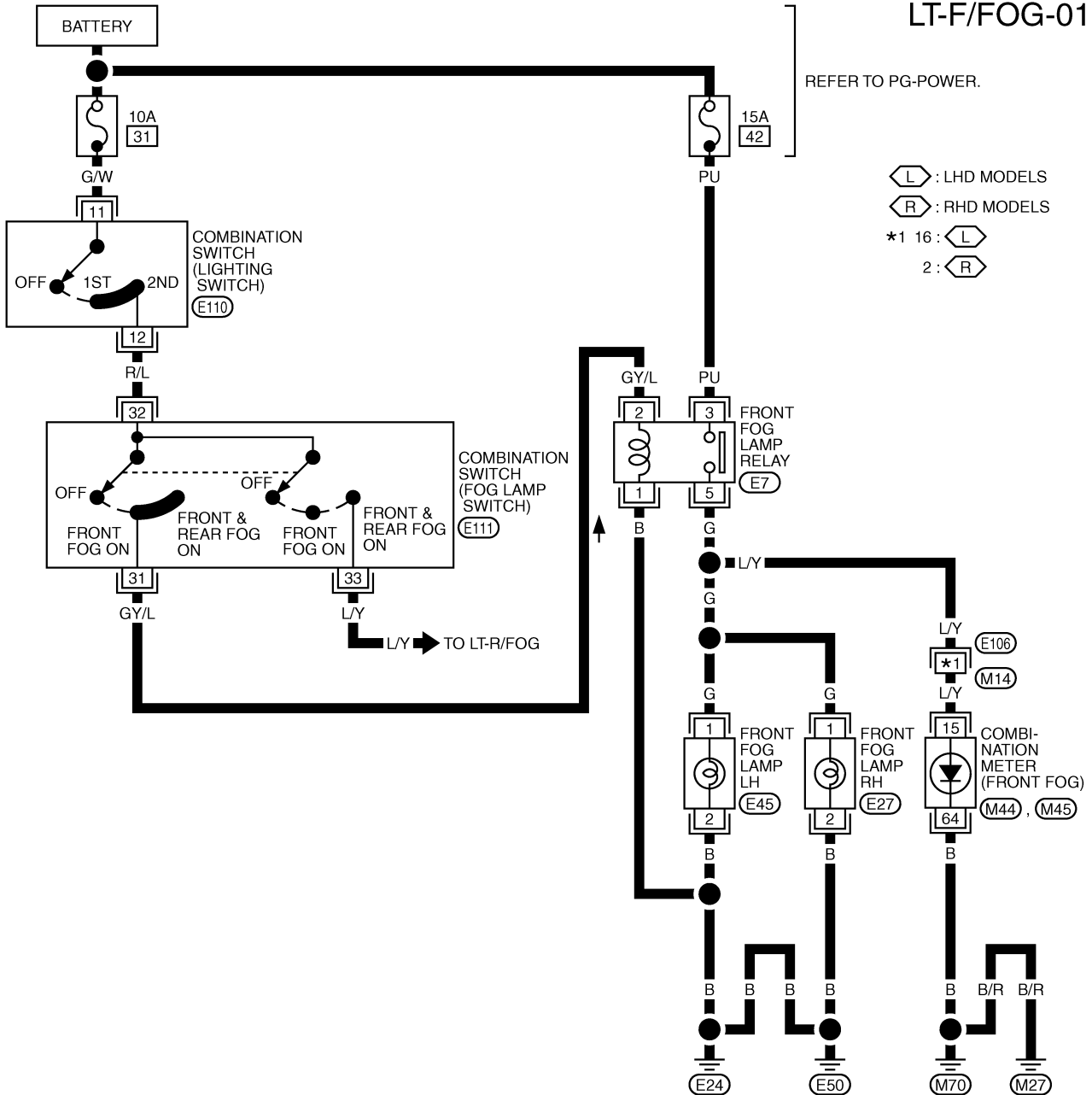
- to combination meter terminal 64 through grounds M27 and M70.

# FRONT FOG LAMP

## Wiring Diagram — F/FOG —

EKS003DG

LT-F/FOG-01

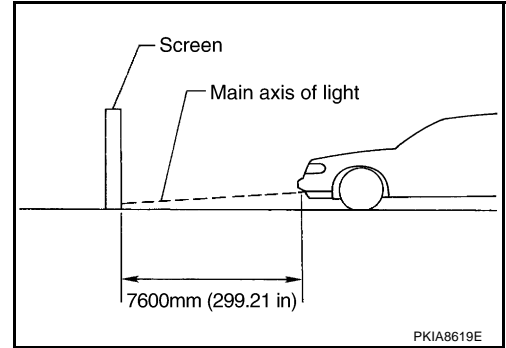


# FRONT FOG LAMP

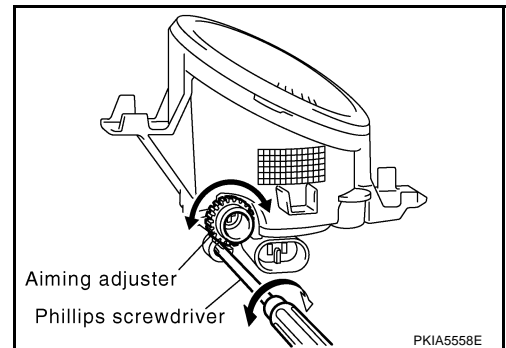
## Aiming Adjustment

EKS003DH

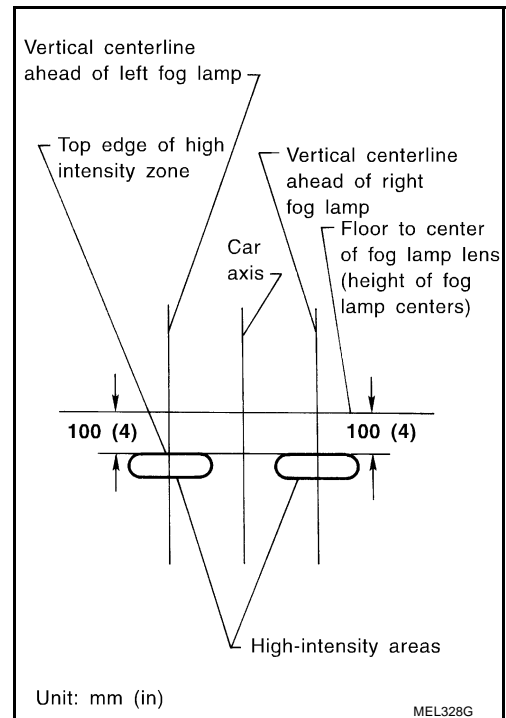
1. Set the distance between the screen and the center of the fog lamp lens as shown at left.
2. Turn front fog lamps ON.



3. Insert a phillips screwdriver into the access hole and engage the tip of the screwdriver with the gear of the adjuster as shown at left. The aiming adjuster can now be turned by turning the screwdriver.



4. Adjust front fog lamps so that the top edge of the high intensity zone is 100 mm (4 in) below the height of the fog lamp centers as shown at left.
  - When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.



# FRONT FOG LAMP

## Bulb Replacement

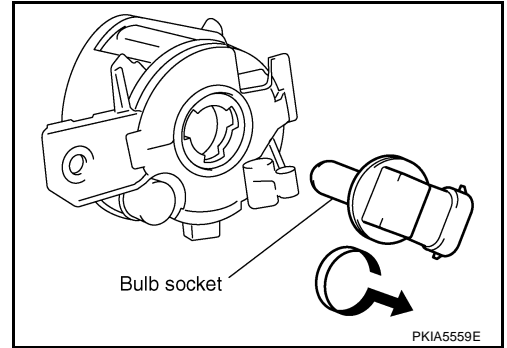
EKS003DI

1. Remove fog lamp. Refer to [LT-55, "Removal and Installation"](#).
2. Turn the bulb socket counterclockwise and unlock it.
3. Remove the bulb from its socket.
4. Install in the reverse order of removal.

Front fog lamp :12V 55W (H11)

### CAUTION:

- Do not touch the glass of bulb directly by hand. Keep grease and other oily matters away from it. Do not touch bulb by hand while it is lit or right after being turned off. Burning may result.
- Do not leave bulb out of fog lamp housing for a long time because dust, moisture smoke, etc. May affect the performance of fog lamp. When replacing bulb, be sure to replace it with new one.

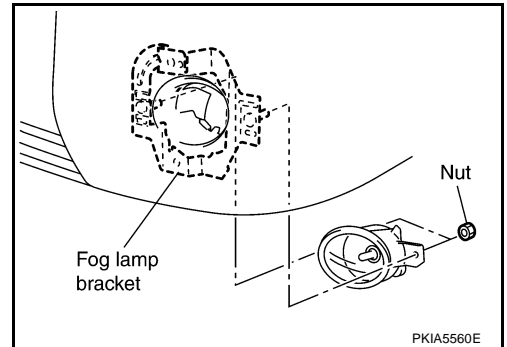


## Removal and Installation

EKS003DJ

### REMOVAL

1. Remove fender protector. Refer to [EI-21, "FENDER PROTECTOR"](#).
2. Disconnect fog lamp connector.
3. Remove fog lamp mounting nuts from fog lamp bracket.
4. Pull out fog lamp from vehicle and disconnect connector.



### INSTALLATION

- Install fog lamp in the reverse order of removal, observing the tightening torque shown below.

Fog lamp mounting bolt

Tightening torque :  5.5 N·m (0.56 kg-m, 49 in-lb)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LT  
L  
M

# REAR FOG LAMP

---

## REAR FOG LAMP

PFP:26550

### System Description DESCRIPTION

EKS00ESB

Power is supplied at all times to rear fog lamp relay terminal 3

- through 10A fuse (No. 36, located in the fuse and fusible link box).

With the lighting switch in the 2ND position and LOW ("B") position, power is supplied

- through 10A fuse (No. 31, located in the fuse and fusible link box)
- to lighting switch terminal 11
- through lighting switch terminal 12
- to fog lamp switch terminal 32
- through fog lamp switch terminal 33
- to rear fog lamp relay terminal 2.

### FOG LAMP OPERATION

The front and rear fog lamp switch is built into the combination switch. The lighting switch must be in the 1st or 2nd position for rear fog lamp operation.

With the fog lamp switch in the ON position, ground is supplied

- to rear fog lamp relay terminal 1
- through the fog lamp switch and grounds E24 and E50.

The rear fog lamp relay is energized and power is supplied

- from rear fog lamp relay terminal 5
- to rear fog lamp terminal 1
- to combination meter terminal 13.

Ground is supplied

- to each fog lamp terminal 2 through grounds E24 and E50.

With power and ground supplied, the rear fog lamps illuminate.

Ground is supplied

- to combination meter terminal 64 through grounds M27 and M70.

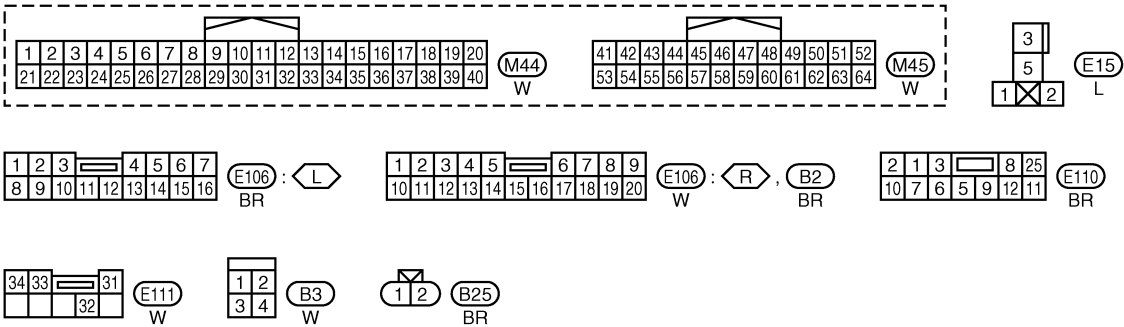
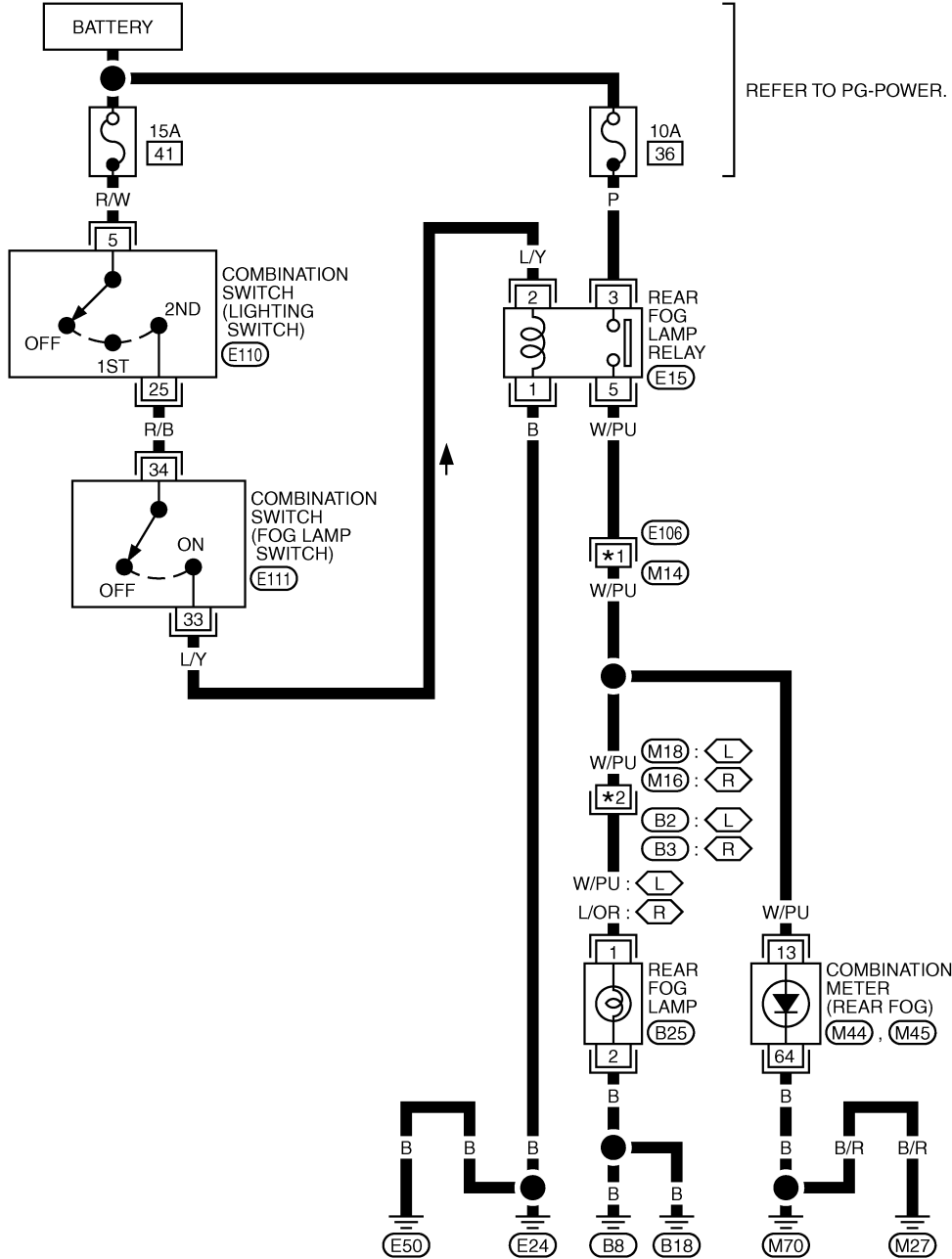


# REAR FOG LAMP

## Wiring Diagram -R/FOG-/Without Front Fog Lamp

EKS003BV

### LT-R/FOG-01



TKWA1536E

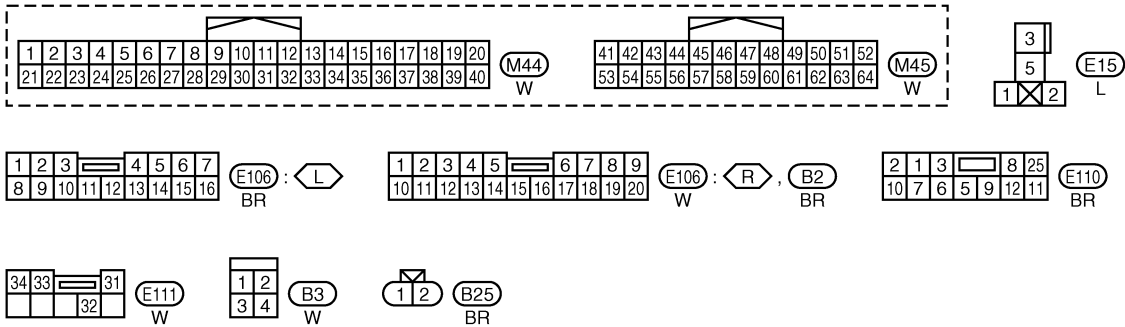
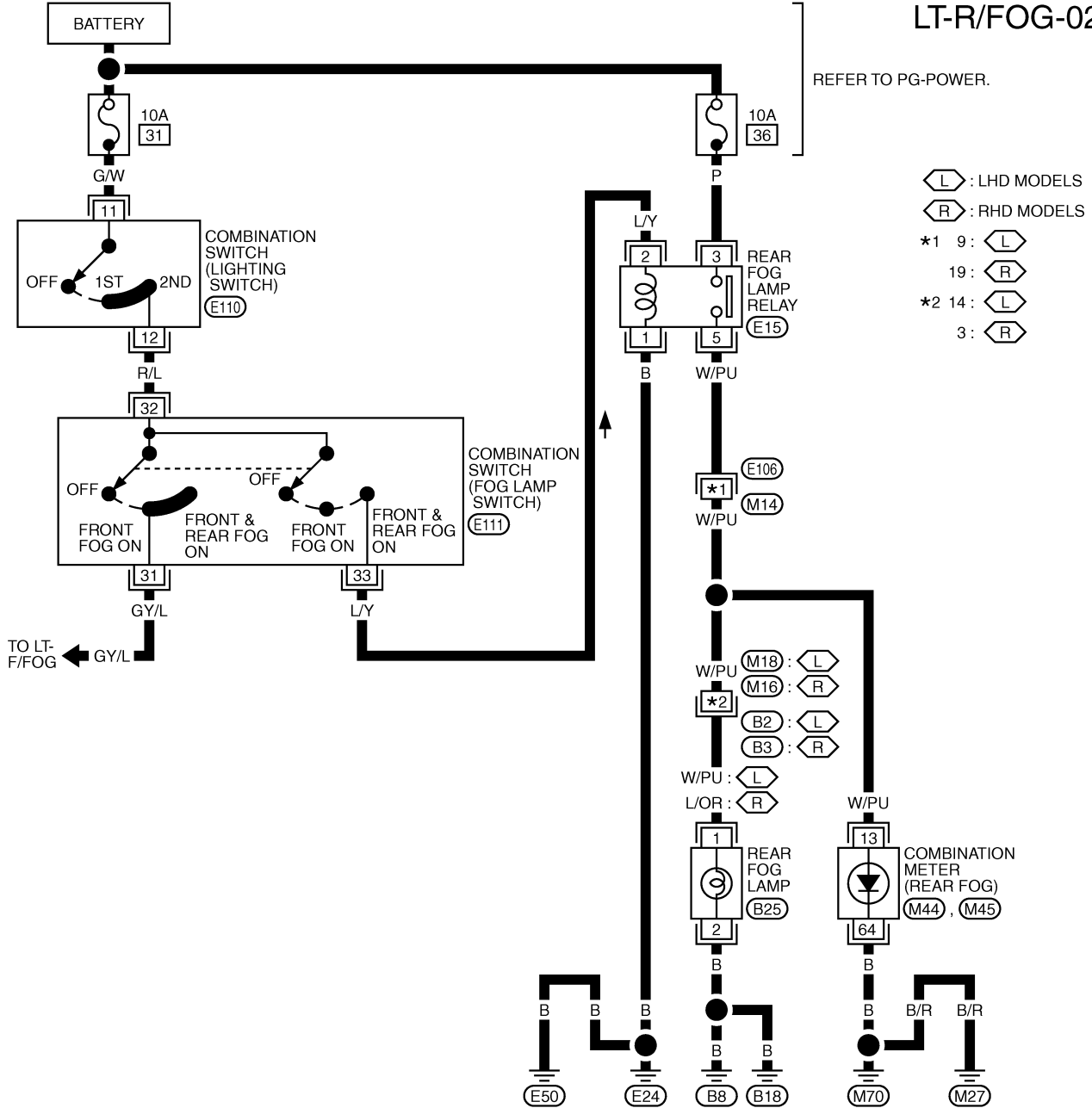
## REAR FOG LAMP

## Wiring Diagram -R/FOG-/With Front Fog Lamp

EKS003BW

LT-R/FOG-02

REFER TO PG-POWER.



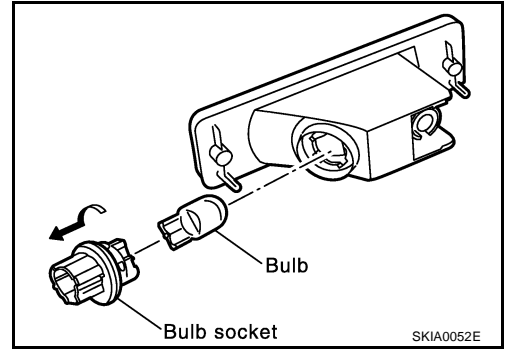
TKWA1537E

# REAR FOG LAMP

## Bulb Replacement

1. Remove rear fog lamp. Refer to [LT-59, "Removal and Installation"](#).
2. Turn bulb socket counterclockwise and unlock it.
3. Remove bulb.

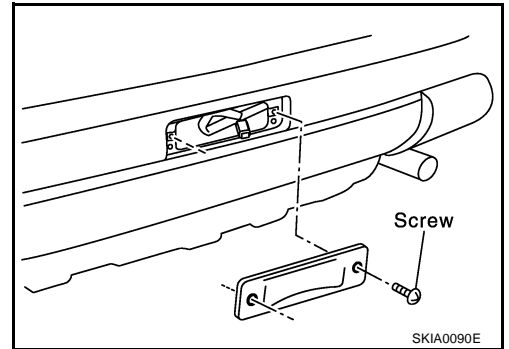
**Rear fog lamp : 12V 21W**



## Removal and Installation

### REMOVAL

1. Remove rear fog lamp mounting screws (2).
2. Take out rear fog lamp from bumper, then disconnect connector.



### INSTALLATION

Install in the reverse order of removal, paying attention to the following.

**Rear fog lamp mounting screws**

**Tightening torque : 1.4 N·m (0.14 kg-m, 12 in-lb)**

## CLEARANCE LAMP/TAIL LAMP

---

### CLEARANCE LAMP/TAIL LAMP

PFP:26010

#### Bulb Replacement (Clearance Lamp)

EKS001UR

Refer to [LT-16, "Bulb Replacement for Headlamp and Clearance lamp"](#) .

#### Bulb Replacement (Tail lamp)

EKS001US

Refer to [LT-63, "Bulb Replacement"](#) .

#### Removal and Installation of Clearance Lamp

EKS001UT

Refer to [LT-17, "Removal and Installation for Headlamp"](#) .

#### Removal and Installation of Tail lamp

EKS001UU

Refer to [LT-63, "Removal and Installation"](#) .

HIGH-MOUNTED STOP LAMP

HIGH-MOUNTED STOP LAMP

PFP:26590

Bulb Replacement

EKS0034W

Refer to [LT-43, "Bulb Replacement"](#) .

Removal and Installation

EKS0034X

Refer to [LT-43, "Removal and Installation"](#) .

A

B

C

D

E

F

G

H

I

J

LT

L

M

## REAR COMBINATION LAMP

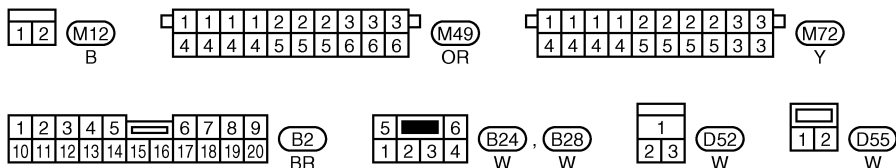
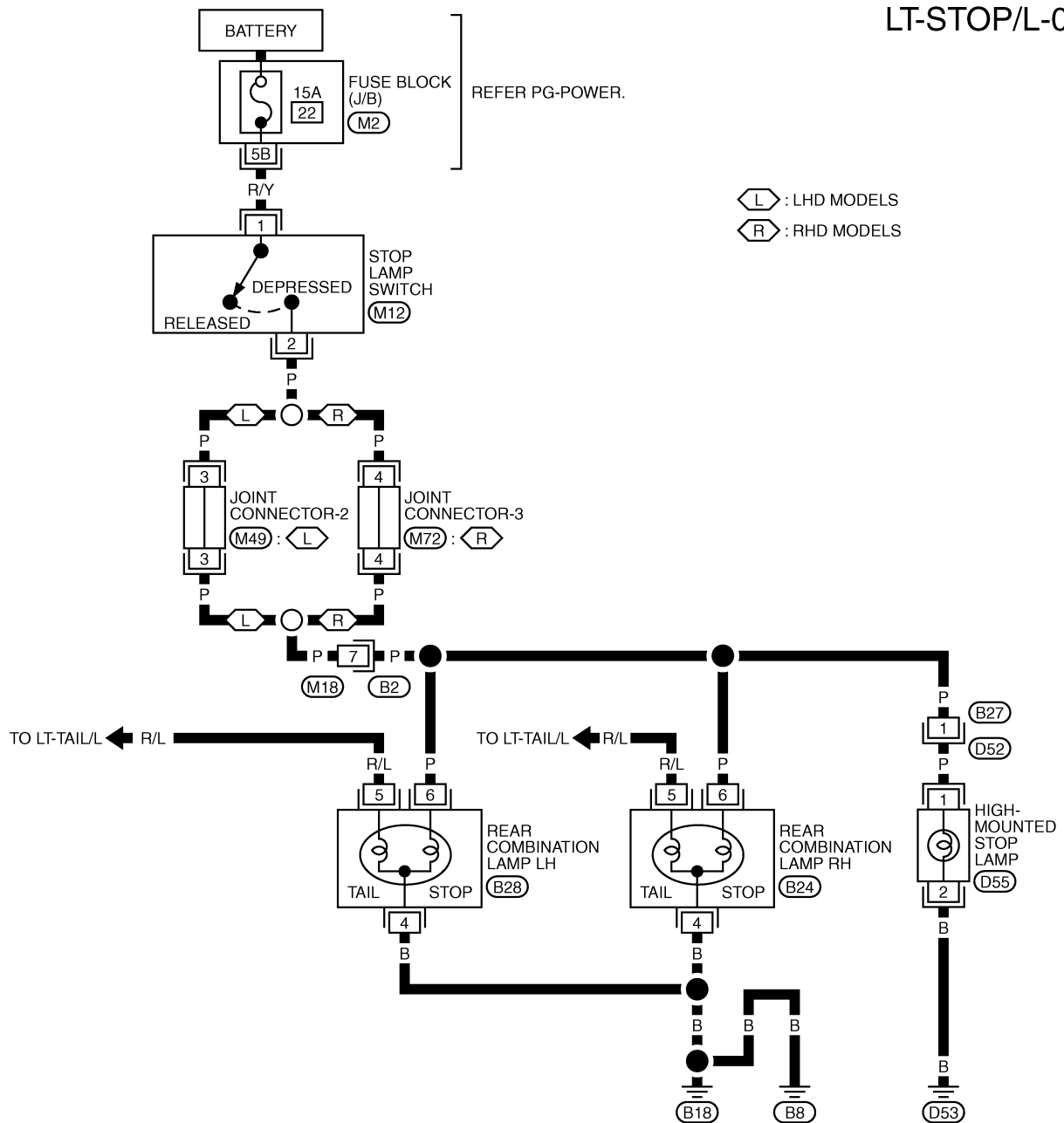
## REAR COMBINATION LAMP

PFP:26554

## Wiring Diagram —STOP/L—

EKS003C6

LT-STOP/L-01



REFER TO THE FOLLOWING.

**(M2)** -FUSE BLOCK-JUNCTION  
BOX (J/B)

# REAR COMBINATION LAMP

## Bulb Replacement

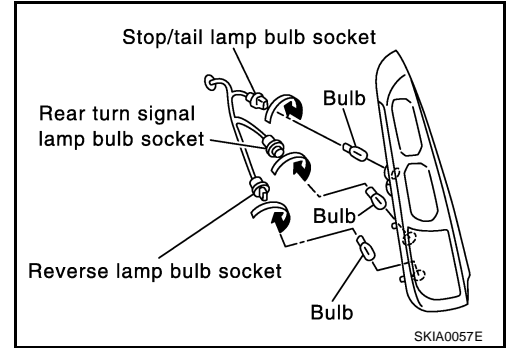
EKS00164

1. Remove rear combination lamp mounting bolts (2).
2. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (3).
3. Turn bulb socket counterclockwise and unlock it.
4. Remove bulb.

**Stop/taillight** : 12V 21/5W

**Rear turn signal lamp** : 12V 21W

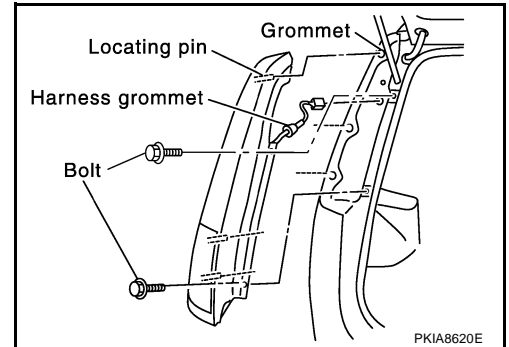
**Backup lamp** : 12V 21W



## Removal and Installation

### REMOVAL


1. Remove luggage-side lower finisher. Refer to [EI-35, "BODY SIDE TRIM"](#) in "EI EXTERIOR & INTERIOR" section.
2. Disconnect rear combination lamp connector.
3. Remove rear combination lamp mounting bolts (2).
4. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (3).
5. From outside the vehicle, pull harness grommet rearward, and remove harness.



### INSTALLATION

Install in the reverse order of removal, paying attention to the following.

**Rear combination lamp mounting bolts**

**Tightening torque** :  5.4 N·m (0.55 kg-m, 48 in-lb)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LT  
L  
M

# COMBINATION SWITCH

---

## COMBINATION SWITCH

PFP:25567

### Removal and Installation

EKS001V6

Refer to [SRS-33, "SPIRAL CABLE"](#) in "SUPPLEMENTAL RESTRAINT SYSTEM (SRS)" section for details.

### Switch Circuit Inspection

EKS001V7

Refer to [LT-40, "Switch Circuit Inspection"](#) in "LIGHTING AND TURN SIGNAL SWITCH" section, and [WW-8, "Terminal and Reference Values for Combination Switch"](#) , [WW-16, "Terminal and Reference Values for Combination Switch"](#) in "WW Wiper/Washer Horn" section for details.



# ASHTRAY ILLUMINATION

## ASHTRAY ILLUMINATION

PFP:25860

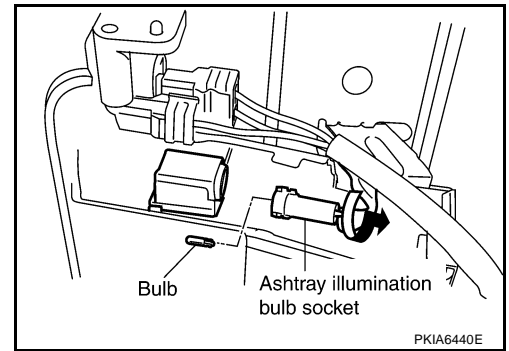
### Bulb Replacement, Removal and Installation

EKS00F86

1. Remove the instrument center lower panel. Refer to [IP-10](#), "[INSTRUMENT PANEL ASSEMBLY](#)" in "IP" section.
2. Turn bulb socket counterclockwise and unlock it.
3. Pull the bulb from socket.

**Ashtray illumination lamp : 12V - 1.4W**

4. Install in the reverse order of removal.



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
LT  
L  
M

# ILLUMINATION

## ILLUMINATION

PFP:27545

### System Description

EKS003C7

Power is supplied at all times

- through 10A fuse [No. 31, located in the fuse and fusible link box]
- to lighting switch terminal 11.

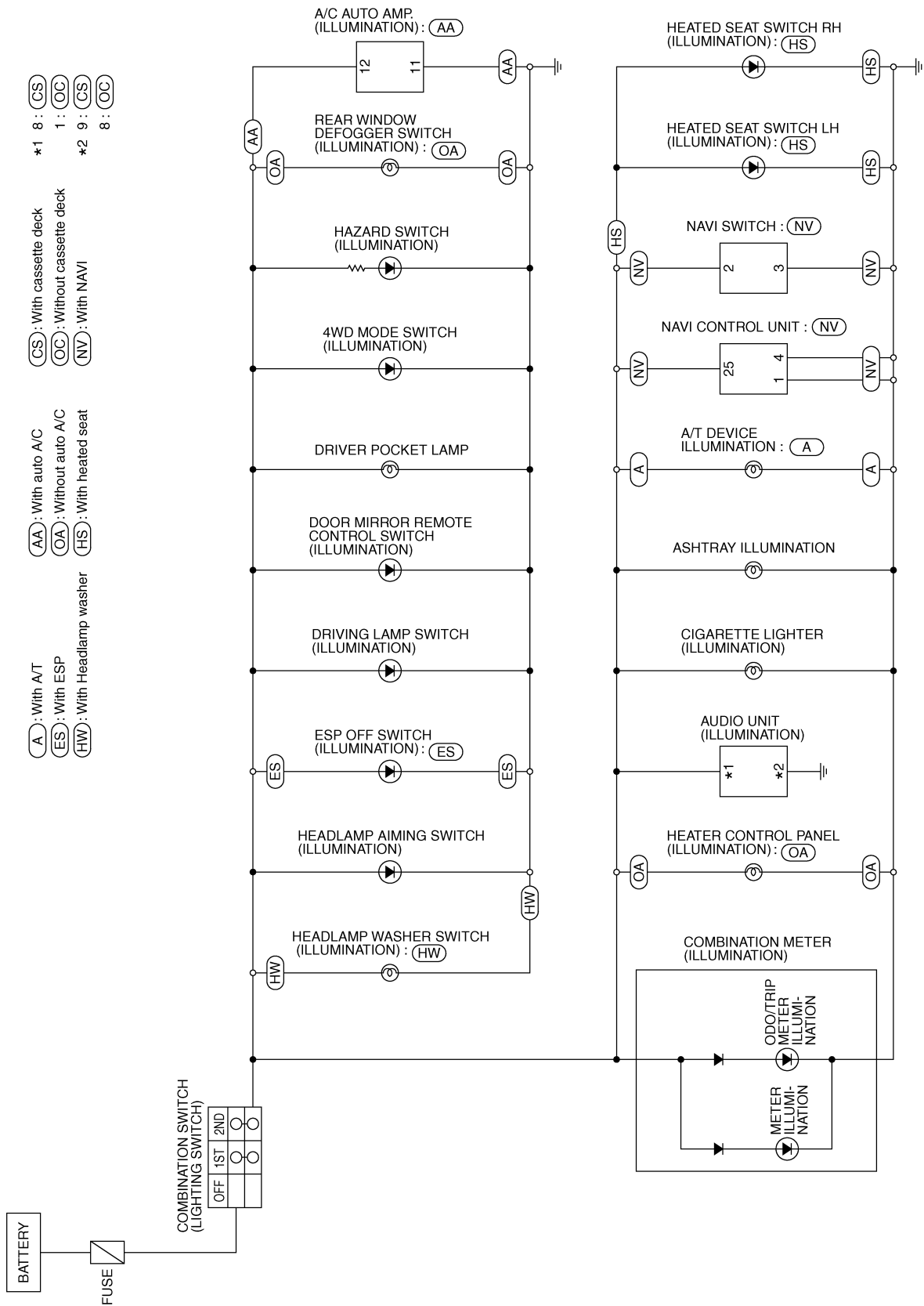
The lighting switch must be in the 1ST or 2ND position for illumination.

The following chart shows the power and ground connector terminals for the components included in the illumination system.

Component	Connector No.	Power terminal	Ground terminal
Headlamp washer switch	M23	3	4
Headlamp aiming switch	M24	3	4
Door mirror remote control switch	M26	10	1
ESP off switch	M25	3	4
Hazard switch	M51	7	8
4WD mode switch	M39	4	3
Rear window defogger switch	M50	5	6
A/C auto amp.	M52	12	11
Combination meter (LHD models)	M46	56	66
Combination meter (RHD models)	M46	45	56
Audio	M42	2	1
CD auto changer	M82	34	35
Heater control panel	M55	2	6
A/T device	M58	3	4
Cigarette lighter	M56	3	2
Heated seat switch LH (LHD models)	B131	5	6
Heated seat switch RH (LHD models)	B132	5	6
Heated seat switch LH (RHD models)	B35	5	6
Heated seat switch RH (RHD models)	B34	5	6

Schematic

EKS003BL



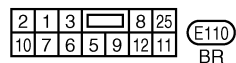
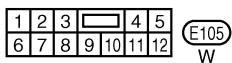
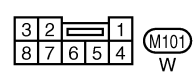
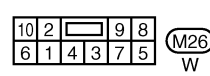
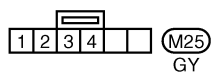
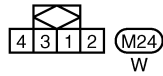
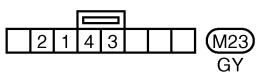
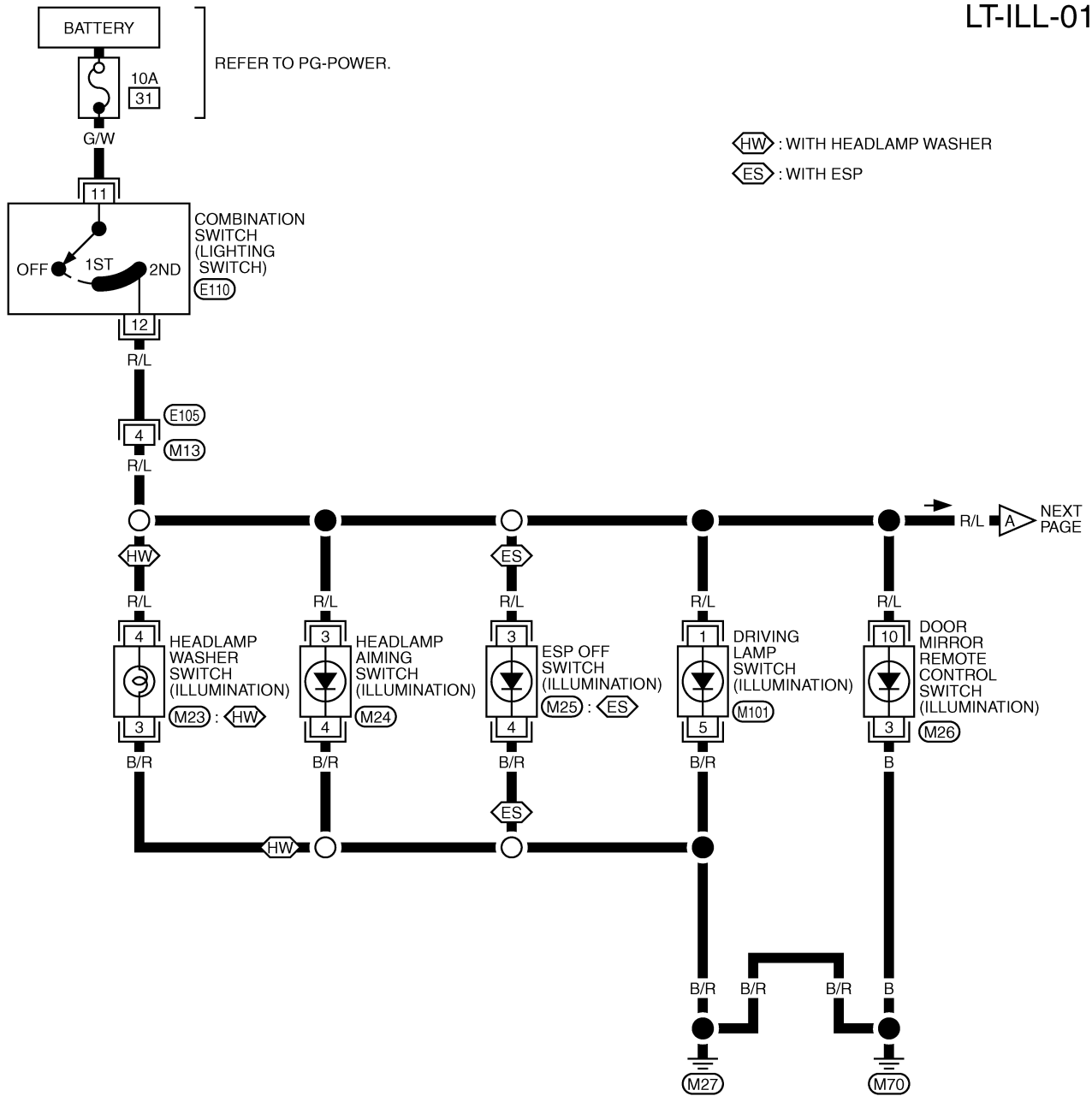
LT

# ILLUMINATION

## Wiring Diagram -ILL- LHD MODELS

EKS003BM

LT-ILL-01

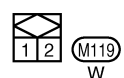
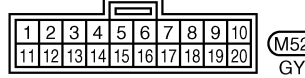
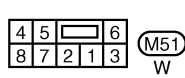
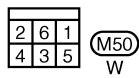
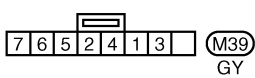
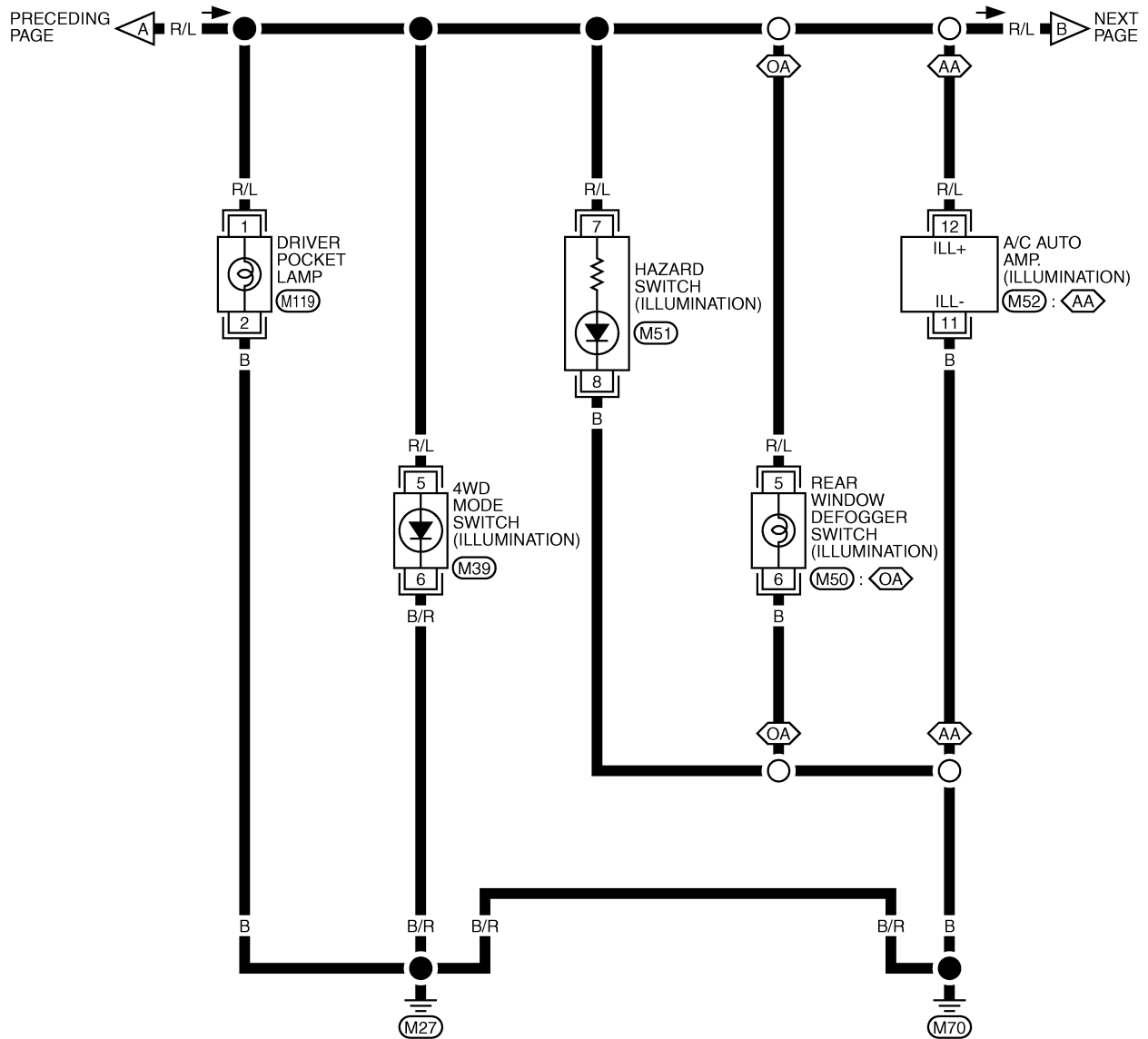


TKWA1539E

# ILLUMINATION

LT-ILL-02

AA : WITH AUTO A/C  
OA : WITHOUT AUTO A/C

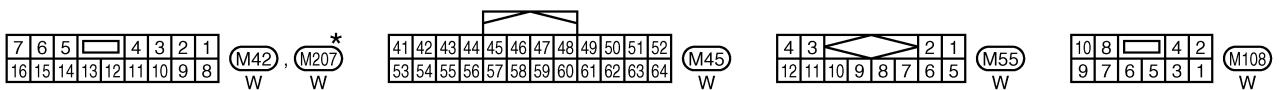
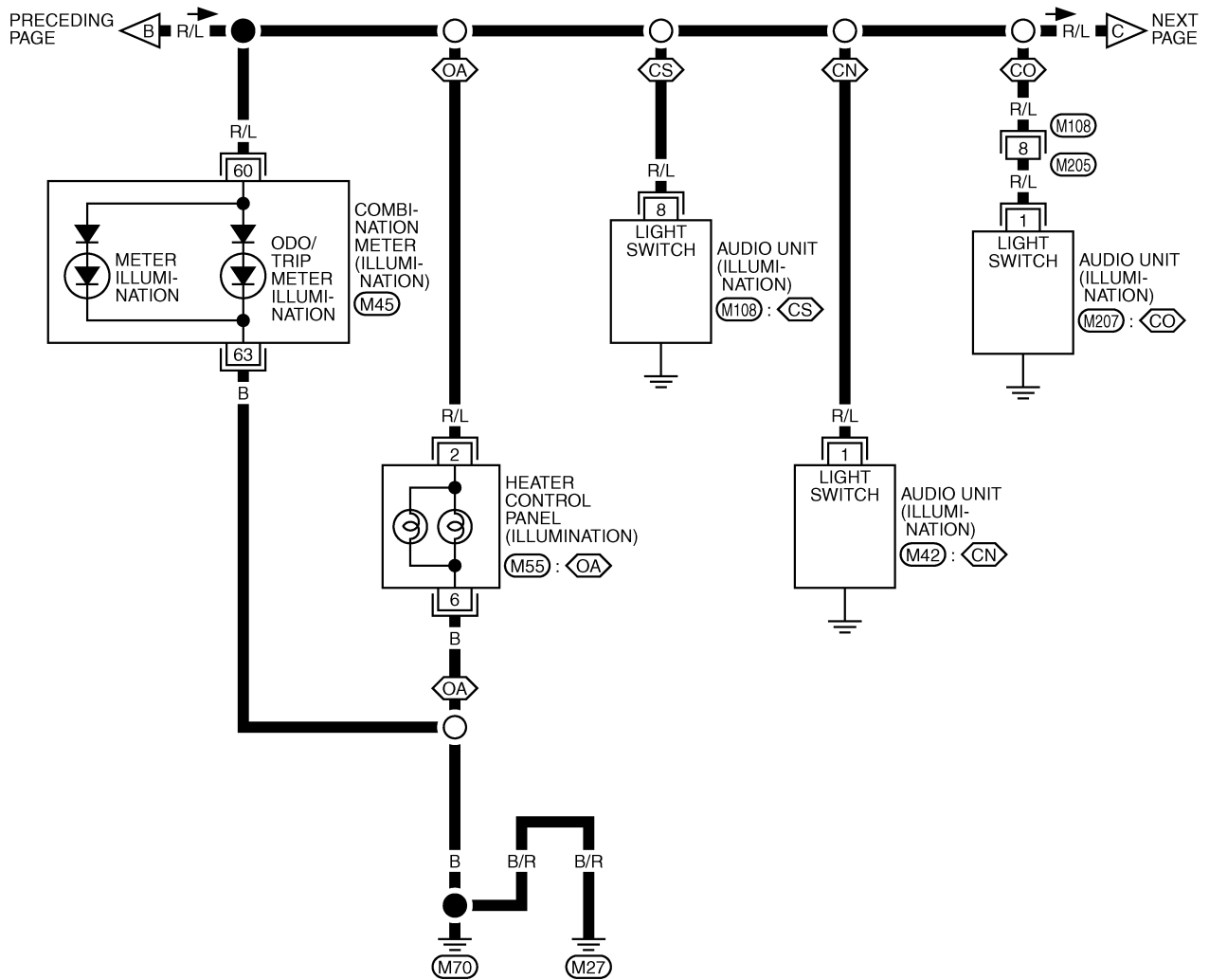


TKWA1540E

# ILLUMINATION

LT-ILL-03

- (OA) : WITHOUT AUTO A/C  
 (CS) : WITH CASSETTE DECK  
 (CN) : WITHOUT CASSETTE DECK AND WITH NAVI  
 (CO) : WITHOUT CASSETTE DECK AND WITHOUT NAVI



\* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWA1541E

A  
B  
C  
D  
E  
F  
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H  
I  
J  
K  
L  
M

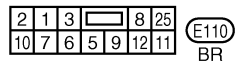
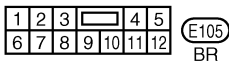
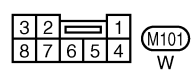
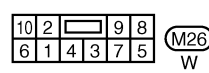
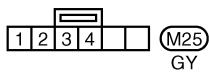
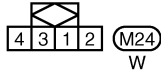
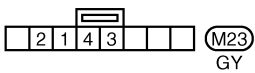
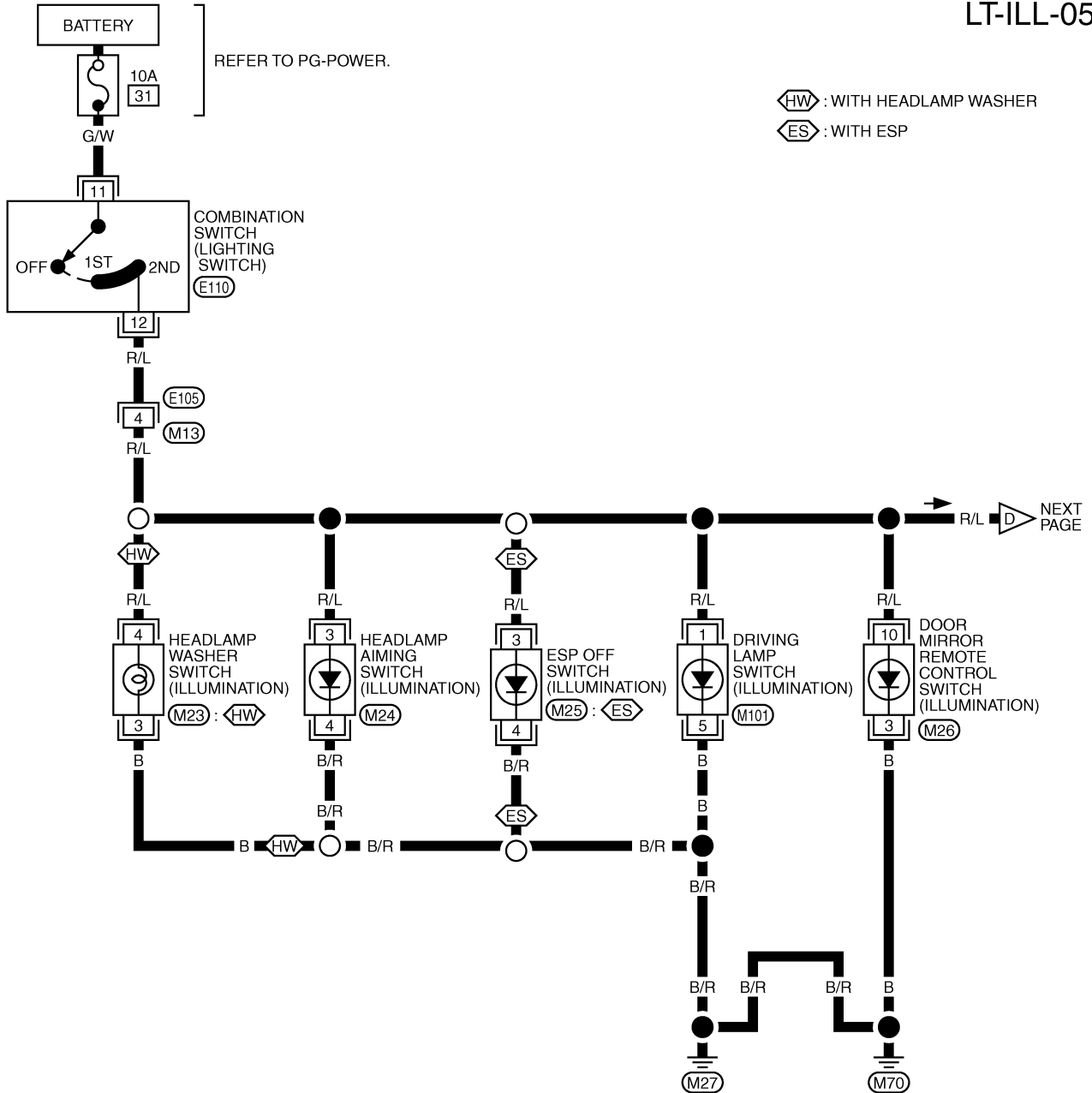
## LT



# ILLUMINATION

## RHD MODELS

LT-ILL-05

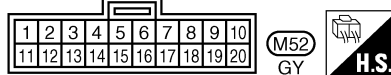
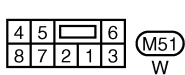
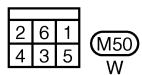
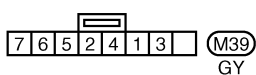
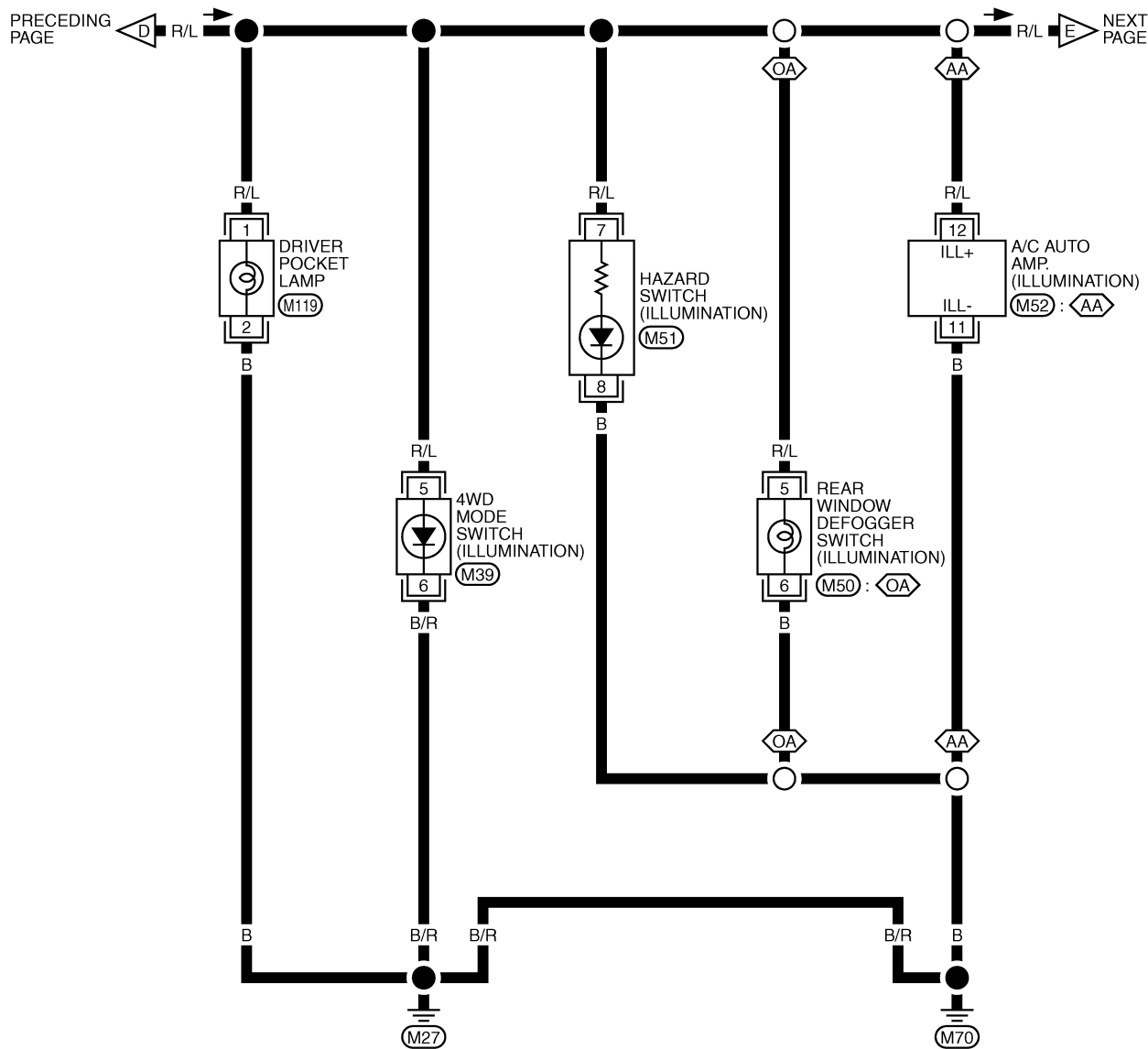




# ILLUMINATION

LT-ILL-06

AA : WITH AUTO A/C  
OA : WITHOUT AUTO A/C



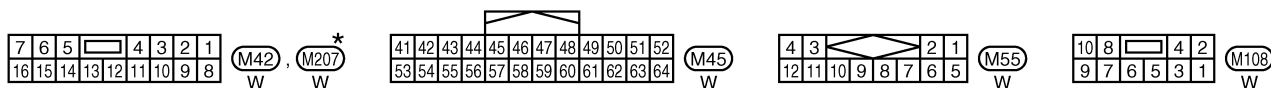
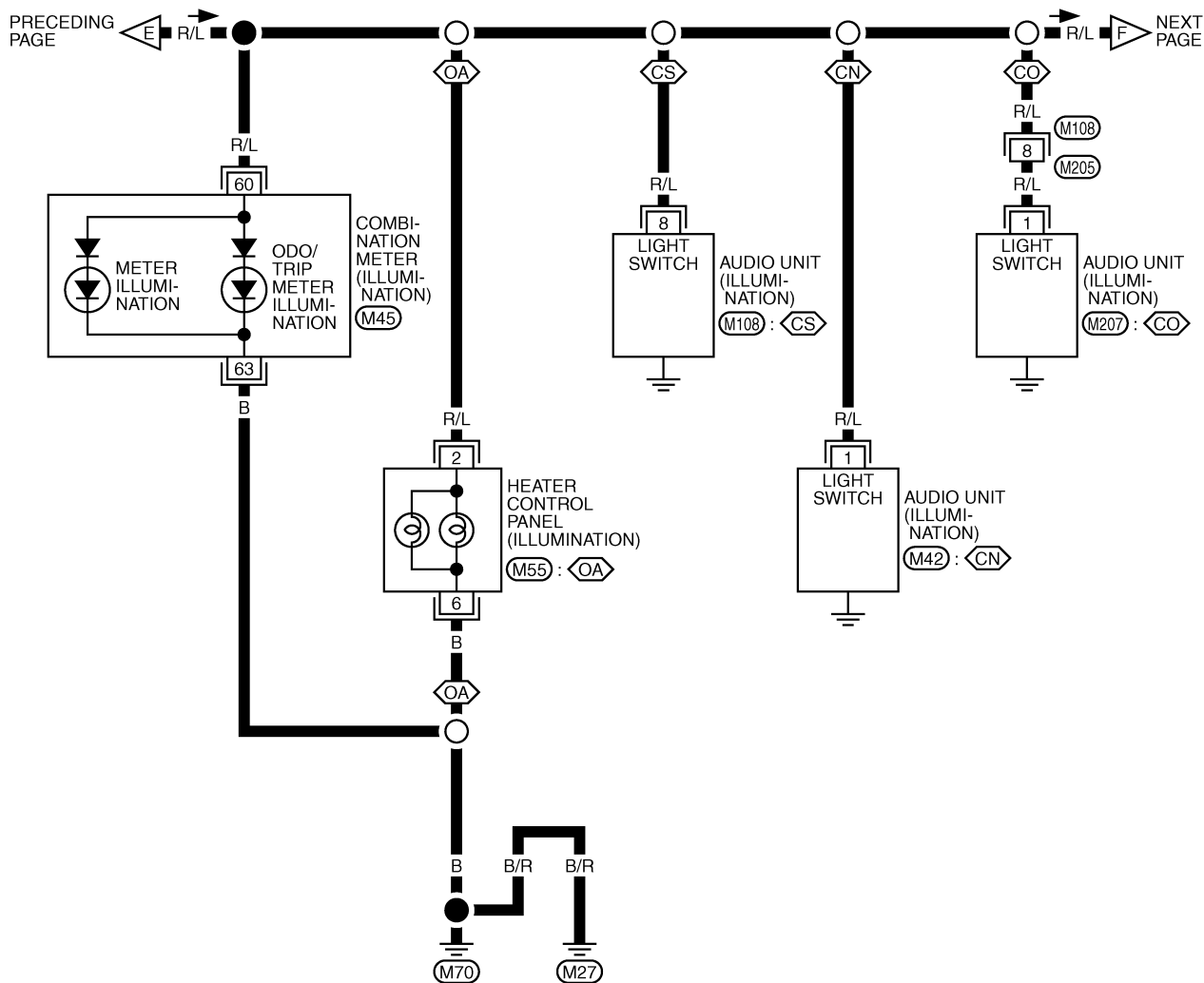
TKWA1544E

OA : WITHOUT AUTO A/C

 : WITH CASSETTE DECK

**⬡CN** : WITHOUT CASSETTE DECK AND WITH NAVI

 : WITHOUT CASSETTE DECK AND WITHOUT NAVI

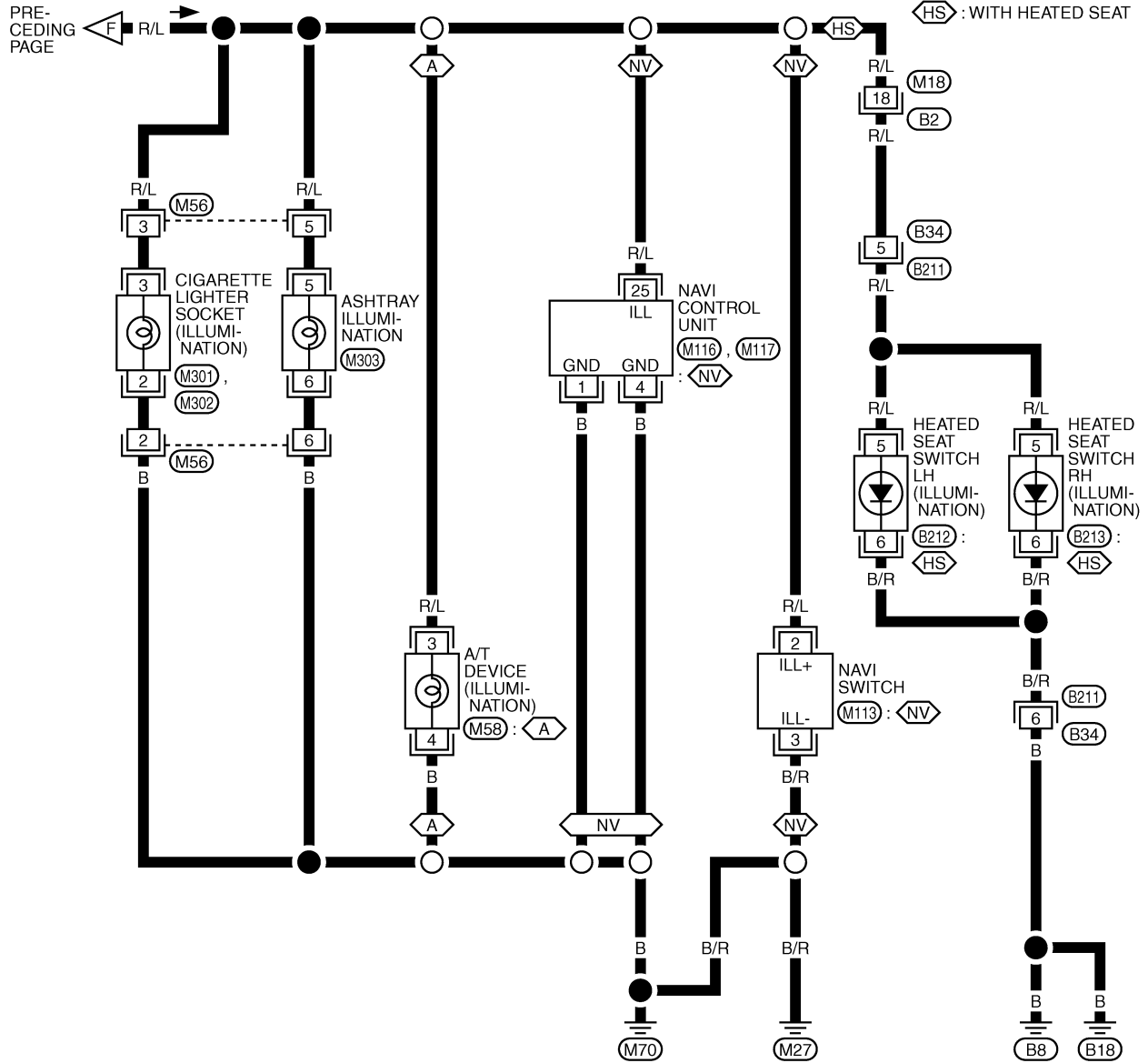


\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

# ILLUMINATION

LT-ILL-08

PRE-  
CEDING  
PAGE



6	4	2
5	3	1

(M56)  
GY

1	6
2	3
4	5

(M58)  
W

3	2	1
8	7	6
5	4	

(M113)  
W

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

(M116)  
W

48	45	42	39	37	35	33	30	27
47	44	41	38	36	34	32	29	26
46	43	40				31	28	25

(M117)  
GY

2	*
1	

(M301)  
B

3	*

(M302)  
B

6	5	*

(M303)  
W

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

(B2)  
BR

8	5	6	*
7	4	1	

(B211)  
W

6	5	*	*
3	1	2	4

(B212)  
W

(B213)  
BR

\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWA1546E

LT-75

## INTERIOR ROOM LAMP

PFP:26410

### System Description POWER SUPPLY AND GROUND

EKS003BQ

Power is supplied at all times:

- through 10A fuse [No. 28, located in the fuse block (J/B)]
- to key switch terminal 1 and
- to time control unit terminal 1
- through 10A fuse [No. 26, located in the fuse block (J/B)]
- to interior room lamp terminal 1
- to luggage room lamp terminal 1
- to map lamp terminal 1 (with sunroof models)

When the key is removed from ignition key cylinder, power is interrupted

- through key switch terminal 2
- to time control unit terminal 18.

With the ignition key switch in the ON or START position, power is supplied

- through 10A fuse [No. 5, located in the fuse block (J/B)]
- to time control unit terminal 17.

Ground is supplied

- through grounds terminals M27 and M70
- to time control unit terminal 16.

When the driver side front door is opened, ground is supplied

- through grounds B8 and B18
- to front door switch driver side terminal 3
- from front door switch driver side terminal 2
- to time control unit terminal 30.

When any door (except back door) is opened, ground is supplied

- through case ground of each door switch
- to each door switch terminal 1
- to time control unit terminal 31.

When back door is opened, ground is supplied:

- through ground D53
- to back door switch terminal 3
- from back door switch terminal 1
- to time control unit terminal 31.

When the driver side door is unlocked, the time control unit receives a ground signal

- through grounds terminals M27 and M70
- to front door lock actuator terminal 1
- from front door lock actuator terminal 5
- to time control unit terminal 28.

When a signal, or combination of signals is received by the time control unit, ground is supplied

- through time control unit terminal 26
- to interior room lamp terminal 2.
- to map lamp terminal 3 (with sunroof models)

With power and ground supplied, the interior room lamp illuminates.

### SWITCH OPERATION

When interior room lamp switch is ON, ground is supplied

- through case grounds of interior room lamp
- to interior room lamp.

# INTERIOR ROOM LAMP

When map lamp switch is ON, ground is supplied (with sunroof models)

- through ground M27 and M70
- to map lamp terminal 2.

## INTERIOR ROOM LAMP TIMER OPERATION

When interior room lamp nad map lamp (with sunroof models) switch is in the “DOOR” position, the time control unit keeps the interior room lamp and map lamp (with sunroof models) illuminated for about 30 seconds when

- unlock signal is supplied from driver's door unlock sensor while all doors are closed and key is out of ignition key cylinder
- key is removed from ignition key cylinder while all doors are closed
- driver's door is opened and then closed while key is out of the ignition key cylinder. (However, if the driver's door is closed with the key inserted in the ignition key cylinder after the driver's door is opened with the key removed, the timer is operated.)

The timer is canceled when

- driver's door is locked,
- driver's door is opened, or
- ignition switch is turned ON.

## ON-OFF CONTROL

When the driver side door, front passenger door, rear LH or RH door is opened, the interior room lamp and map lamp (with sunroof models) turns on while the interior room lamp and map lamp (with sunroof models) switch is in the “DOOR” position.

A

B

C

D

E

F

G

H

I

J

LT

L

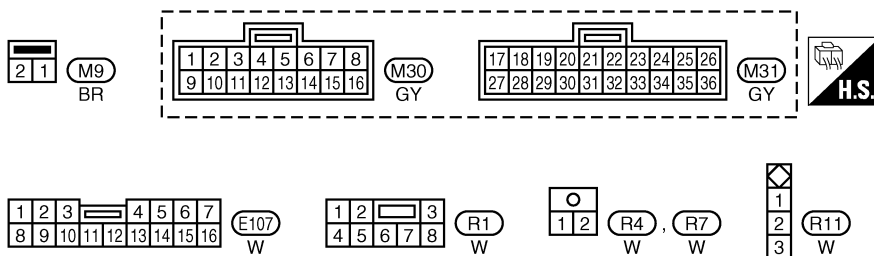
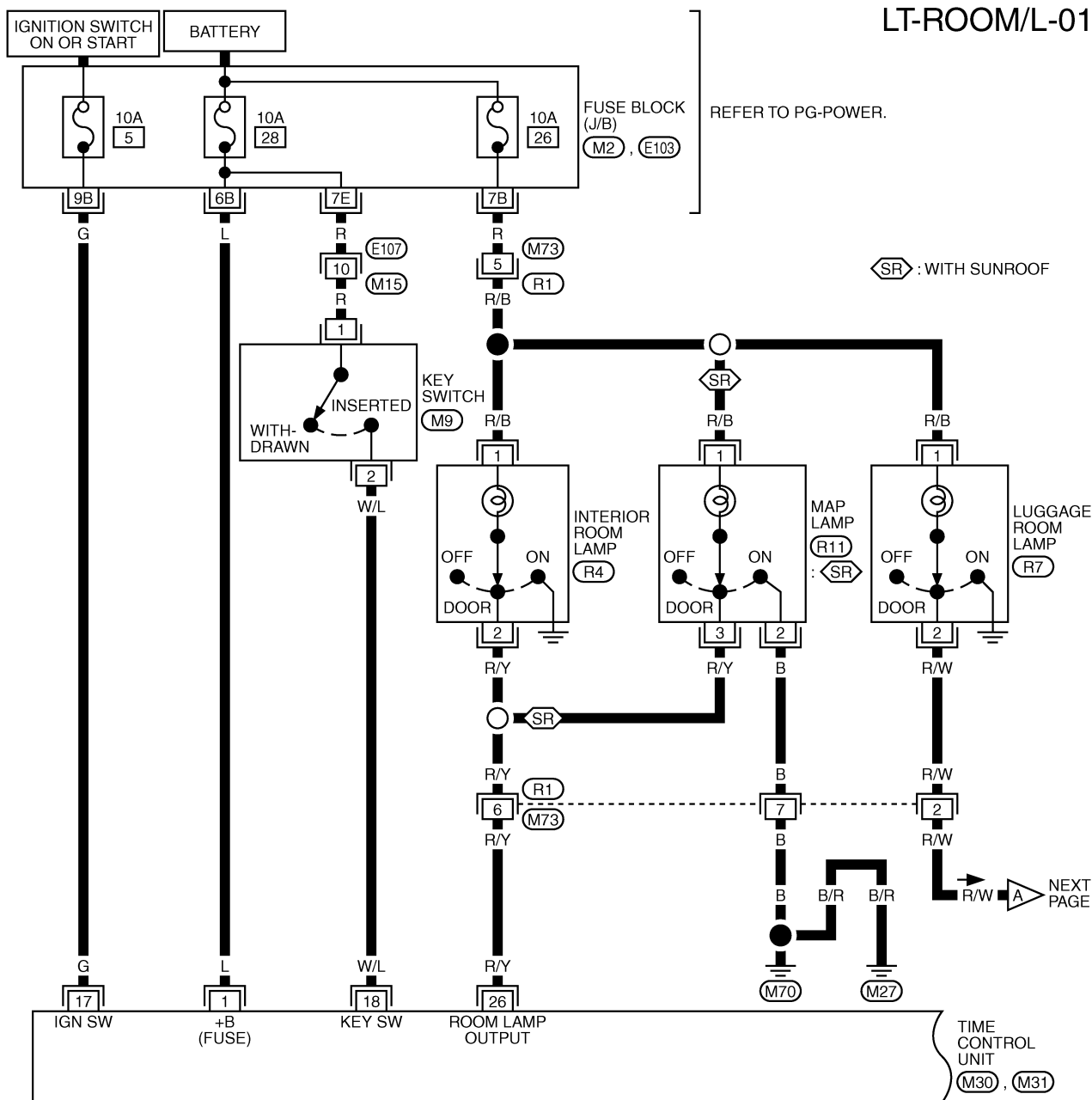
M

## INTERIOR ROOM LAMP

## Wiring Diagram -ROOM/L- LHD MODELS

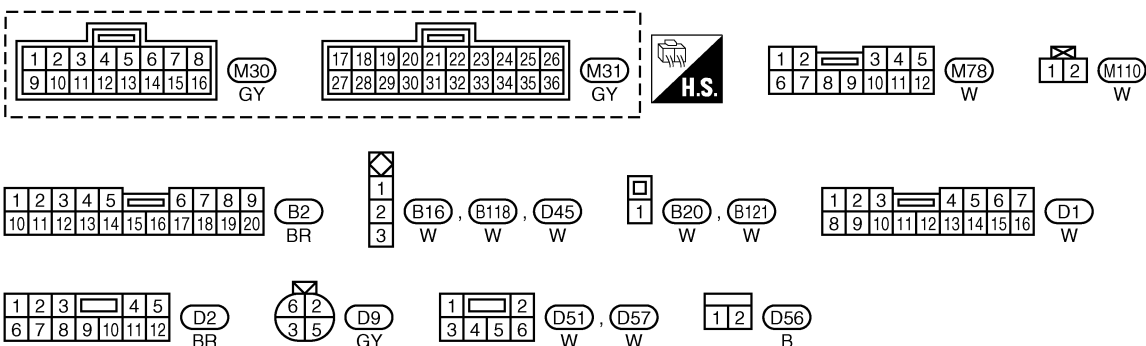
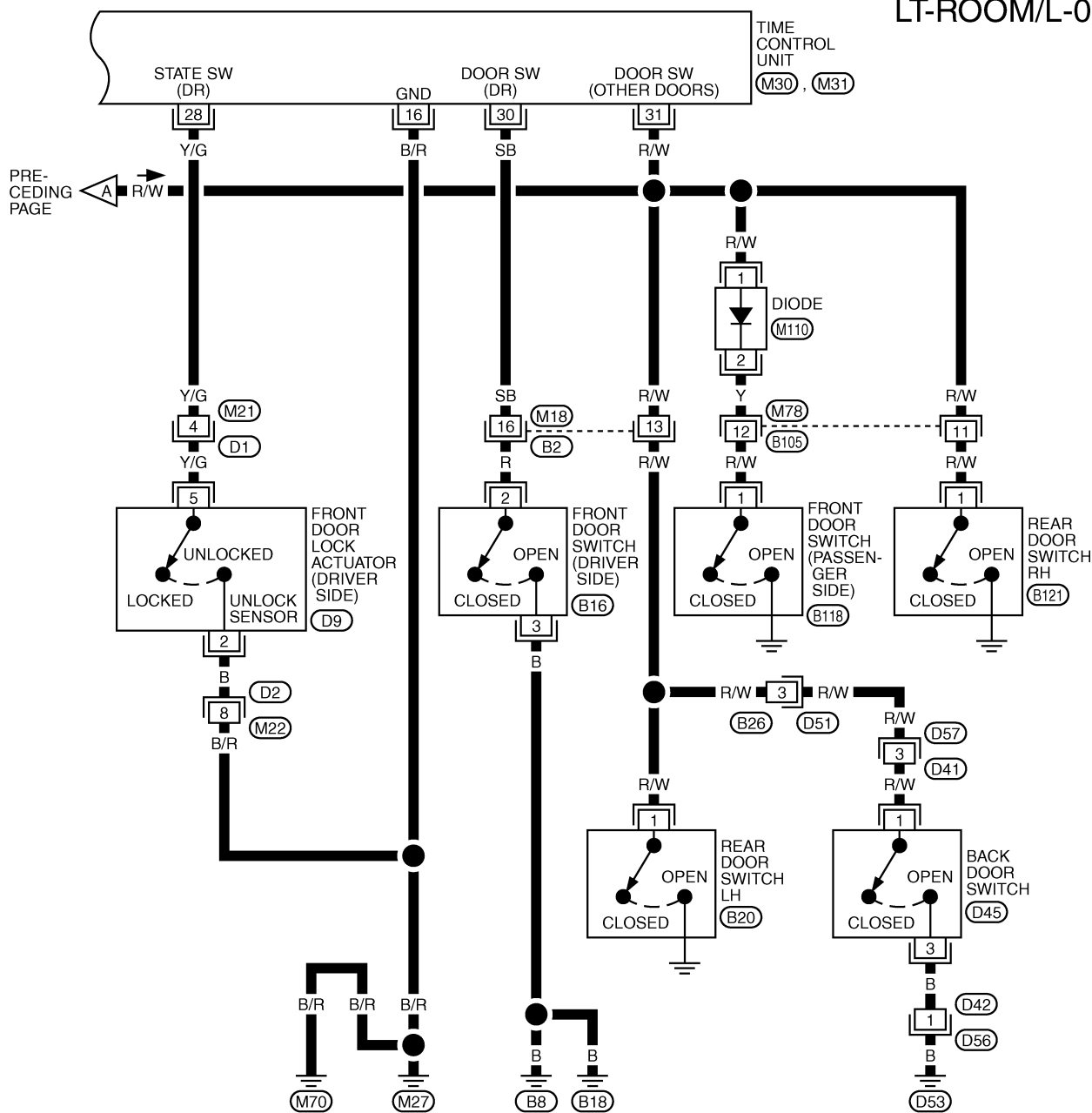
EKS003BR

LT-ROOM/L-01



REFER TO THE FOLLOWING.  
 (M2), (E103) -FUSE BLOCK-  
 JUNCTION BOX (J/B)

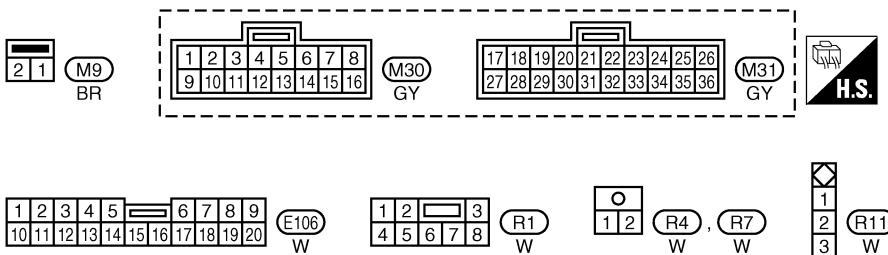
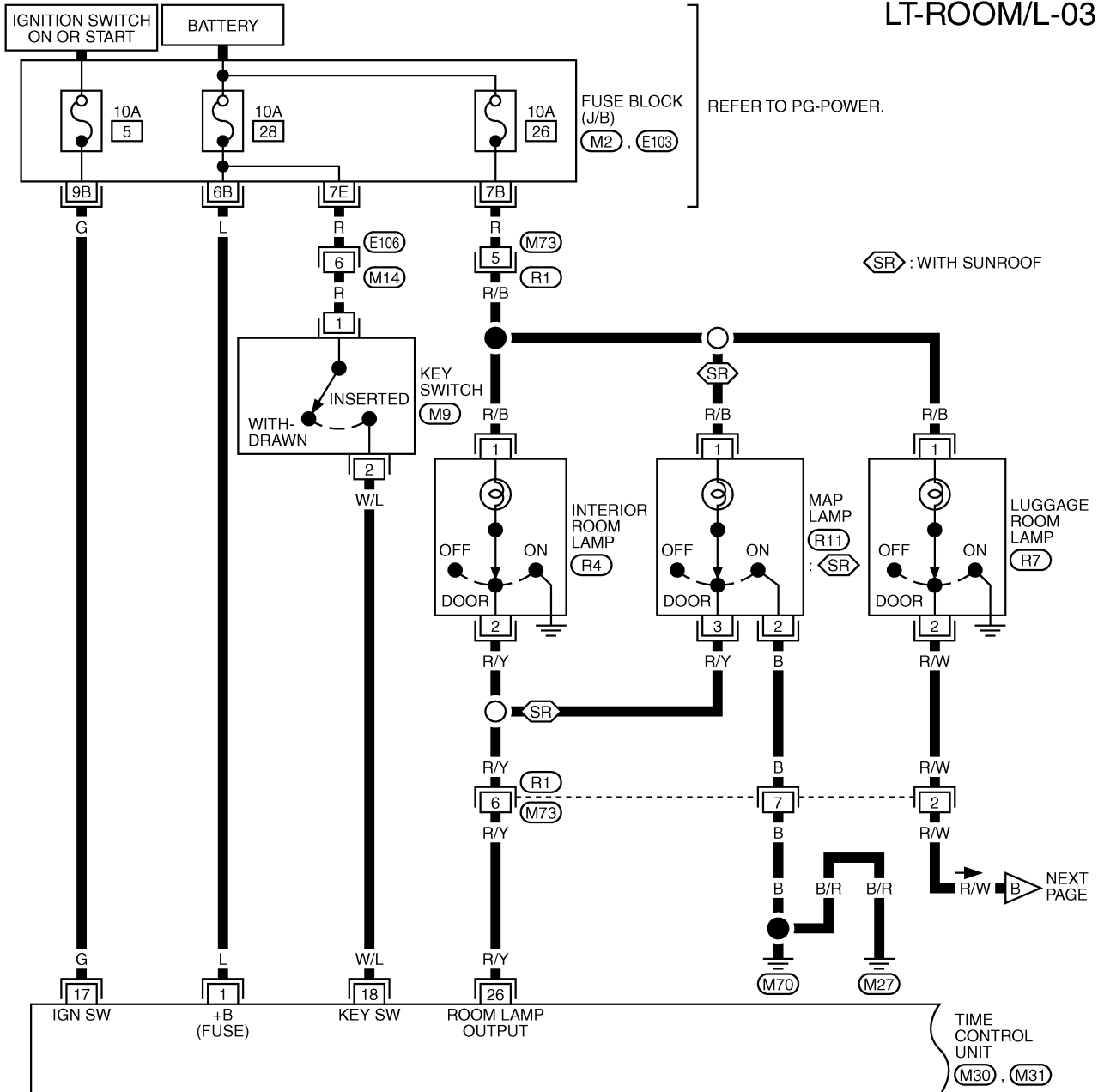
LT-ROOM/L-02



# INTERIOR ROOM LAMP

## RHD MODELS

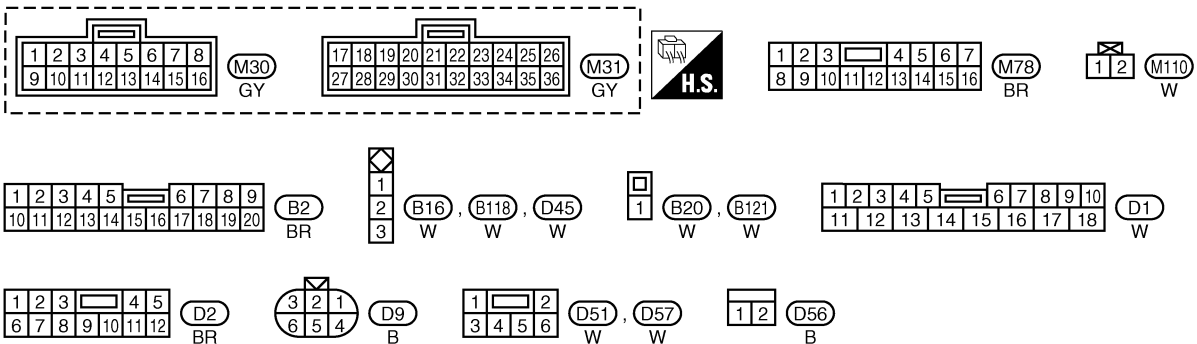
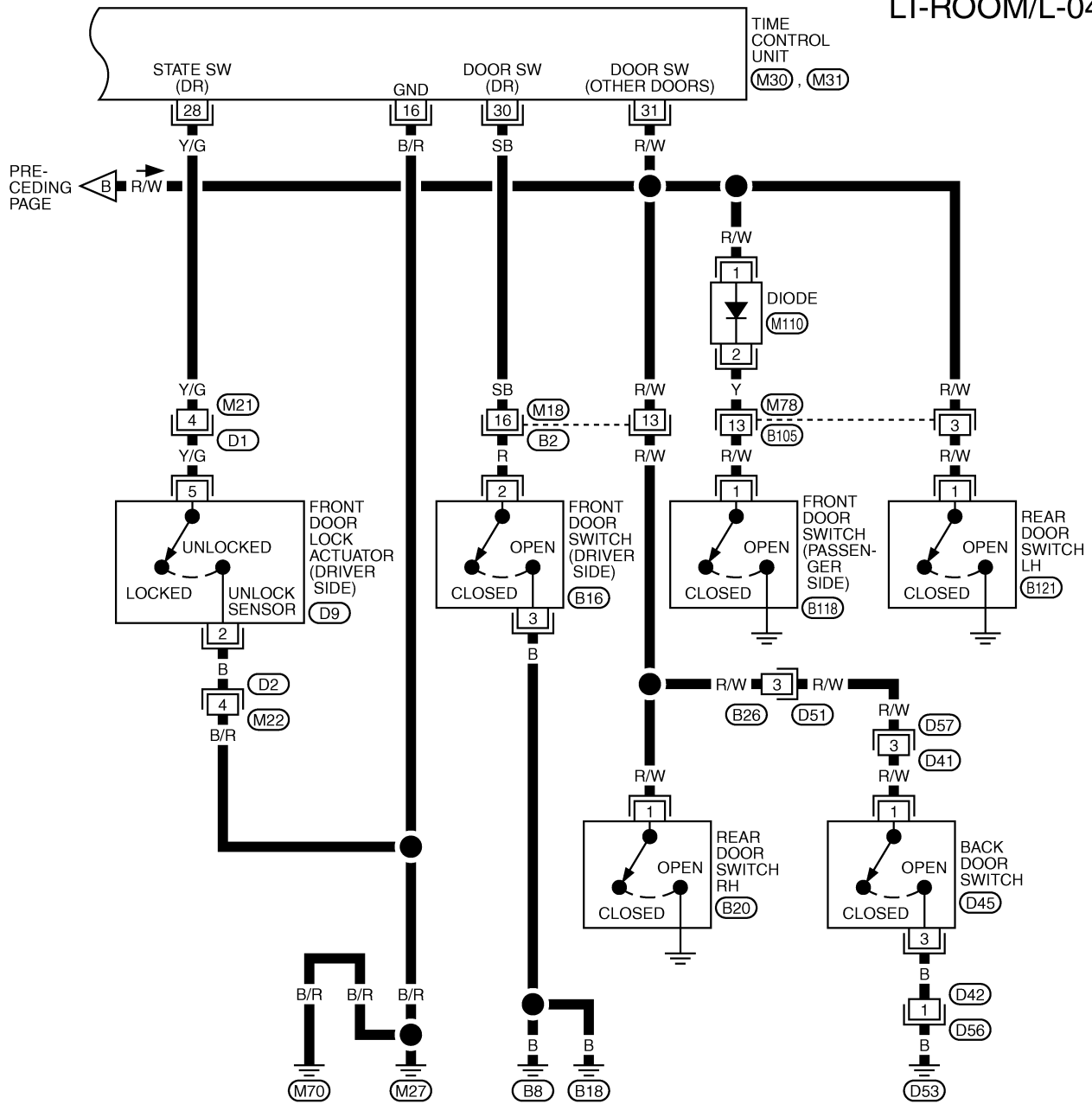
LT-ROOM/L-03





# INTERIOR ROOM LAMP

LT-ROOM/L-04



TKWA1550E

# INTERIOR ROOM LAMP

## Interior Room Lamp Timer Does Not Operate

EKS0079P

### 1. CHECK POWER SUPPLY SIGNAL

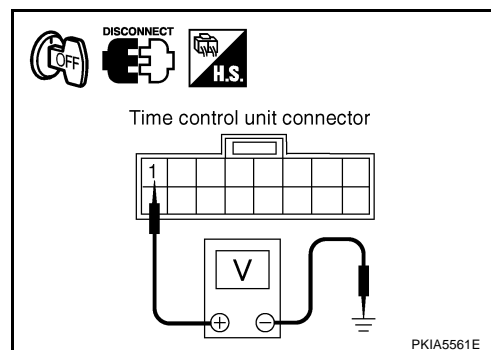
1. Turn ignition switch OFF.
2. Disconnect time control unit connector.
3. Check voltage between time control unit harness connector M30 terminal 1 (L/B) and ground.

**1 (L/B) - Ground : Battery voltage should exist.**

OK or NG

OK >> GO TO 2.

NG >> Check harness for open or short between time control unit and fuse.



### 2. CHECK FRONT DOOR SWITCH (DRIVER SIDE) INPUT SIGNAL

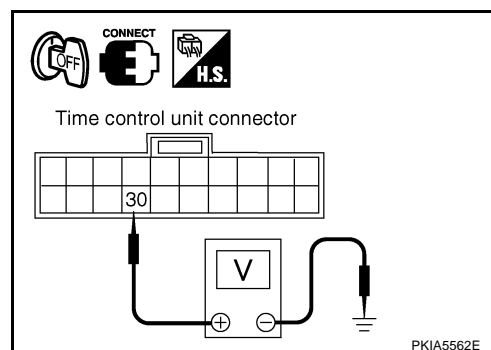
1. Connect time control unit connector.
2. Check voltage between time control unit harness connector and ground.

Terminals			Condition (Driver's door)	Voltage
(+)		(-)		
Connector	Terminal (Wire color)			
M31	30 (R)	Ground	Closed	Approx. 5V
			Open	Approx. 0V

OK or NG

OK >> GO TO 4.

NG >> GO TO 3.



### 3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)

1. Disconnect front door switch connector (driver side).
2. Check continuity between front door switch (driver side) terminals.

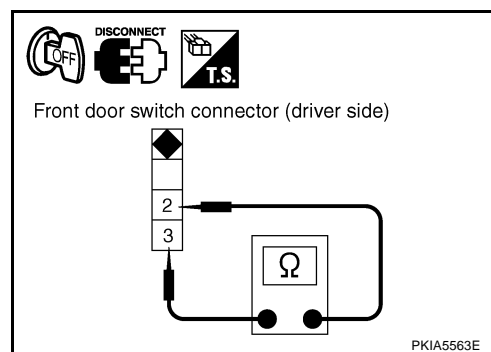
Connector	Terminals		Condition	Continuity
B16	2	3	Pushed (closed)	No
			Released (open)	Yes

OK or NG

OK >> Check the following.

- Front door switch (driver side) ground circuit condition
- Harness for open or short between time control unit and front door switch (driver side)

NG >> Replace driver side door switch.



# INTERIOR ROOM LAMP

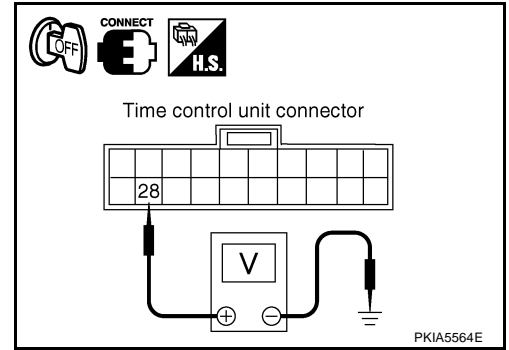
## 4. CHECK FRONT DOOR UNLOCK SENSOR INPUT SIGNAL (DRIVER SIDE)

Check voltage between time control unit harness connector and ground.

Terminals			Condition	Voltage
(+)		(-)		
Connector	Terminal (Wire color)			
M31	28 (Y/G)	Ground	Locked	Approx. 5V
			Unlocked	Approx. 0V

OK or NG

- OK >> GO TO 6.  
NG >> GO TO 5.



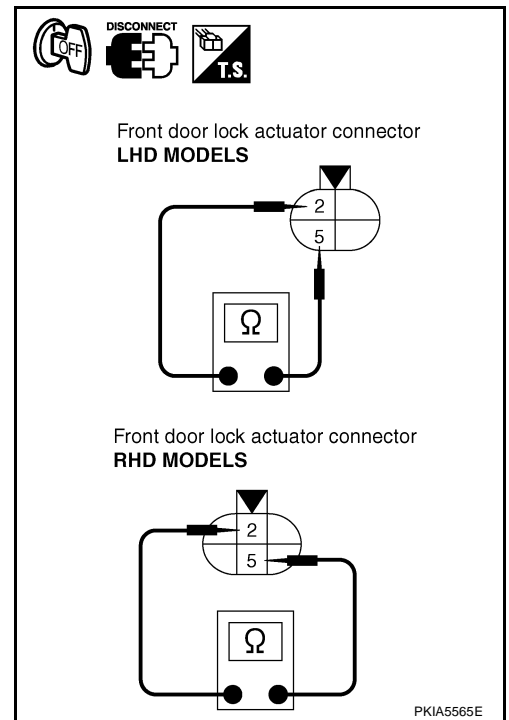
## 5. CHECK FRONT DOOR UNLOCK SENSOR (DRIVER SIDE)

1. Disconnect front door lock actuator harness connector.
2. Check continuity between front door lock actuator terminals.

Connector	Terminals		Condition	Continuity
D9	2	5	Locked	No
			Unlocked	Yes

OK or NG

- OK >> Check the following.
- Front door lock actuator ground circuit
  - Harness for open or short between time control unit and front door lock actuator
- NG >> Replace front door lock actuator.



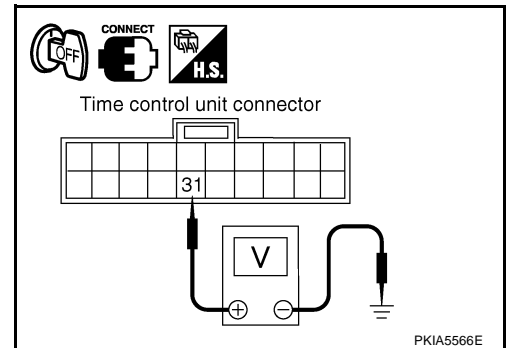
## 6. CHECK DOOR SWITCHES INPUT SIGNAL

Check voltage between time control unit harness connector and ground.

Terminals			Condition (All doors)	Voltage
(+)		(-)		
Connector	Terminal (Wire color)			
M31	31 (R/W)	Ground	Open	Approx. 0V
			Closed	Approx. 5V

OK or NG

- OK >> GO TO 8.  
NG >> GO TO 7.



# INTERIOR ROOM LAMP

## 7. CHECK DOOR SWITCHES

1. Disconnect door switch harness connector.
2. Check continuity between door switch terminal and ground.

Connector		Terminals	Condition	Continuity
B118* <sup>1</sup> , B121* <sup>2</sup> B20* <sup>3</sup> , D45* <sup>4</sup>	Door switches	1 - Ground	Closed	No
			Open	Yes

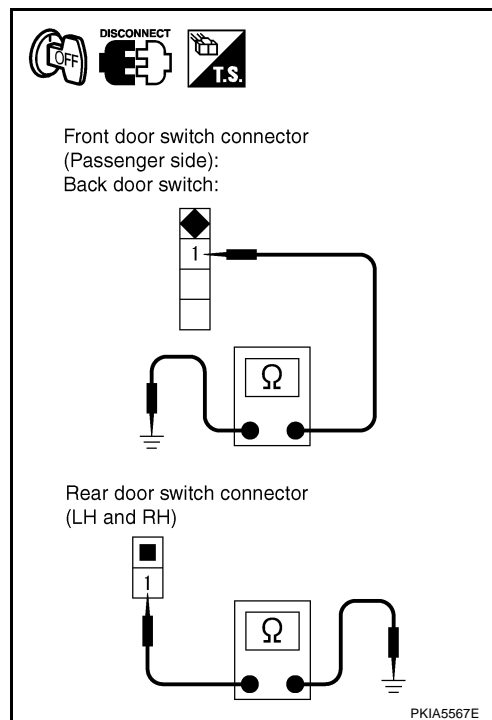
\*1:Passenger side, \*2:Rear LH (RHD model) or Rear RH (LHD model), \*3:Rear RH (RHD model) or Rear LH (LHD model), \*4:Back door

### OK or NG

OK >> Check the following.

- Door switch ground condition
- Harness for open or short between time control unit and door switch

NG >> Replace door switch.



## 8. CHECK KEY SWITCH INPUT SIGNAL

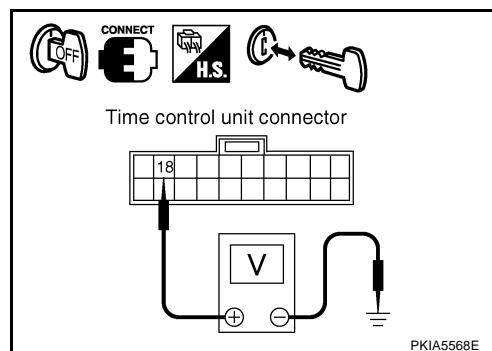
Check voltage between time control unit harness connector and ground.

Terminals		Condition (Key switch)	Voltage
(+)	(-)		
Connector	Terminal (Wire color)		
M31	18 (W/L)	inserted	Battery voltage
		Removed	Approx. 0V

### OK or NG

OK >> Replace time control unit.

NG >> GO TO 9.



## 9. CHECK KEY SWITCH (INSERT)

1. Disconnect key switch connector.
2. Check continuity between terminals.

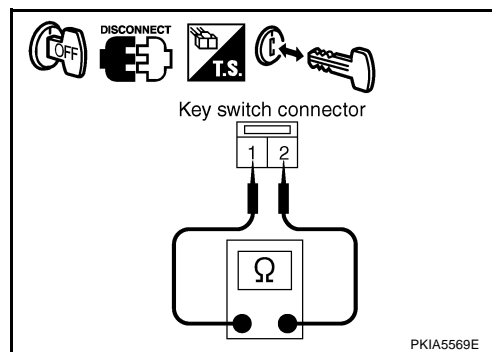
Connector	Terminals		Condition (Key switch)	Continuity
M9	1	2	Inserted	Yes
			Removed	No

### OK or NG

OK >> Check the following.

- Harness for open or short between key switch and fuse
- Harness for open or short between time control unit and key switch

NG >> Replace key switch.



# INTERIOR ROOM LAMP

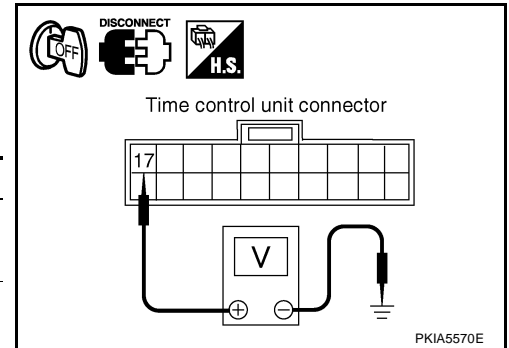
## Interior Room Lamp Timer Does Not Cancel

EKS0079Q

### 1. CHECK IGNITION ON SIGNAL

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

Terminals		Ignition switch position			
(+)		(-)	OFF	ACC	ON
Connector	Terminal (Wire color)				
M31	17 (G)	Ground	0V	0V	Battery voltage



OK or NG

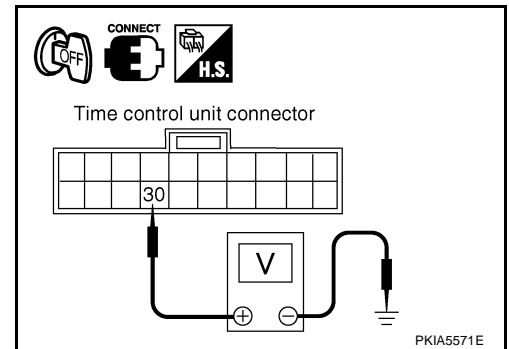
OK >> GO TO 2.

NG >> Check harness for open or short between time control unit and fuse.

### 2. CHECK DOOR SWITCH INPUT SIGNAL

1. Connect time control unit connector.
2. Check voltage between time control unit harness connector and ground.

Terminals			Condition (Driver's door)	Voltage
(+)		(-)		
Connector	Terminal (Wire color)			
M31	30 (R)	Ground	Closed	Approx. 5V
			Open	Approx. 0V



OK or NG

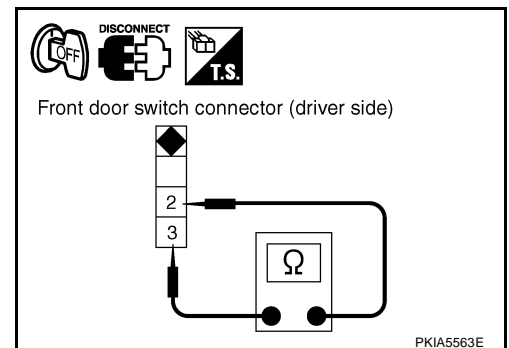
OK >> GO TO 4.

NG >> GO TO 3.

### 3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)

1. Disconnect front door switch connector (driver side).
2. Check continuity between front door switch (driver side) terminals.

Connector	Terminals		Condition	Continuity
B16	2	3	Pushed (closed)	No
			Released (open)	Yes



OK or NG

OK >> Check the following.

- Driver side door switch ground circuit condition
- Harness for open or short between time control unit and driver side door switch

NG >> Replace driver side door switch.

# INTERIOR ROOM LAMP

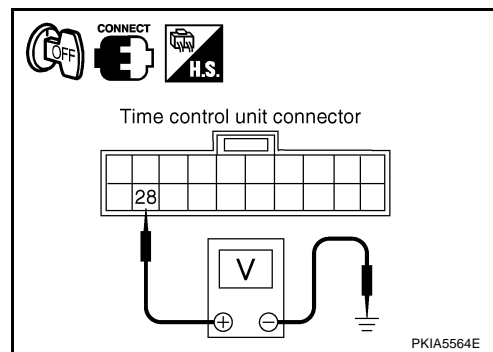
## 4. CHECK FRONT DOOR UNLOCK SENSOR INPUT SIGNAL (DRIVER SIDE)

Check voltage between time control unit harness connector and ground.

Terminals			Condition	Voltage
(+)		(-)		
Connector	Terminal (Wire color)			
M31	28 (Y/G)	Ground	Locked	Approx. 5V
			Unlocked	Approx. 0V

OK or NG

- OK >> GO TO 6.  
NG >> GO TO 5.



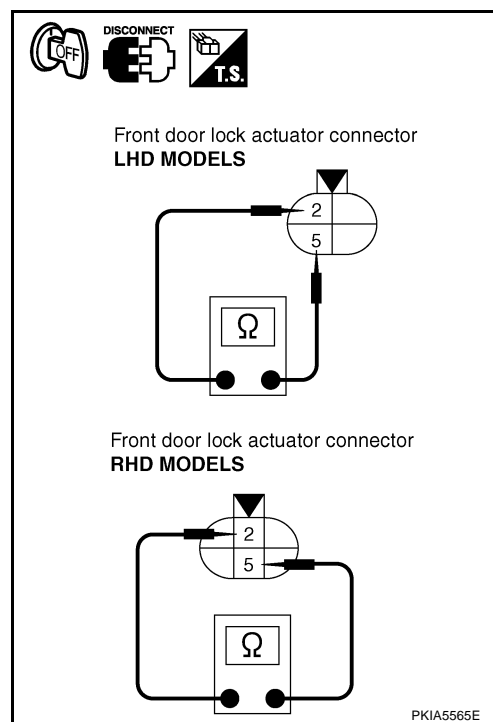
## 5. CHECK FRONT DOOR UNLOCK SENSOR (DRIVER SIDE)

- Disconnect front door lock actuator harness connector.
- Check continuity between front door lock actuator terminals.

Connector	Terminals		Condition	Continuity
D9	2	5	Locked	No
			Unlocked	Yes

OK or NG

- OK >> Check the following.
- Front door lock actuator ground circuit
  - Harness for open or short between time control unit and front door lock actuator
- NG >> Replace front door lock actuator.

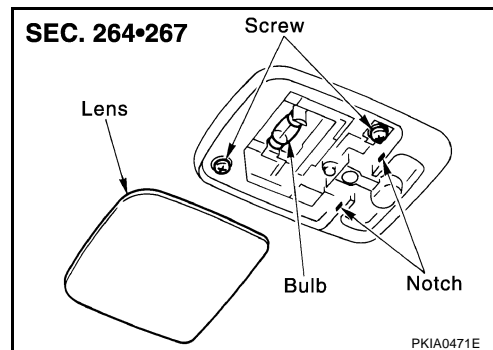


## Bulb Replacement INTERIOR ROOM LAMP

- Insert a narrow slotted screwdriver in the cutout, and remove lens.
- Remove the bulb.

Room lamp

: 12V 10W



## LUGGAGE ROOM LAMP

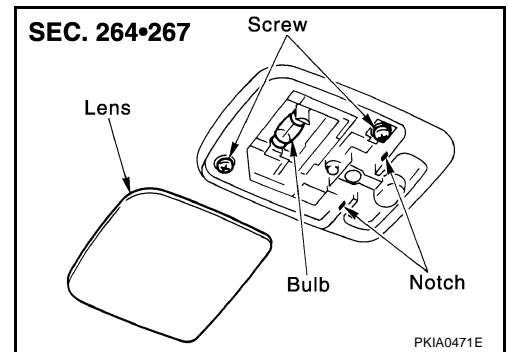
Refer to [LT-86, "Bulb Replacement"](#) in "INTERIOR ROOM LAMP".

## INTERIOR ROOM LAMP

### Removal and Installation INTERIOR ROOM LAMP

EKS003DC

1. Insert a narrow slotted screwdriver in the cutout, and remove lens.
2. Remove room lamp mounting screws (2), and remove room lamp.
3. Disconnect the interior room lamp connector.



### LUGGAGE ROOM LAMP

Refer to [LT-87, "Removal and Installation"](#) in "INTERIOR ROOM LAMP".

A

B

C

D

E

F

G

H

I

J

LT

L

M

STEP LAMP

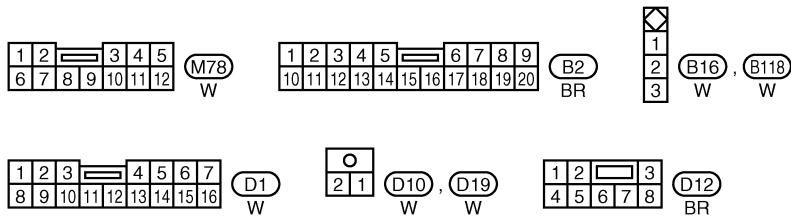
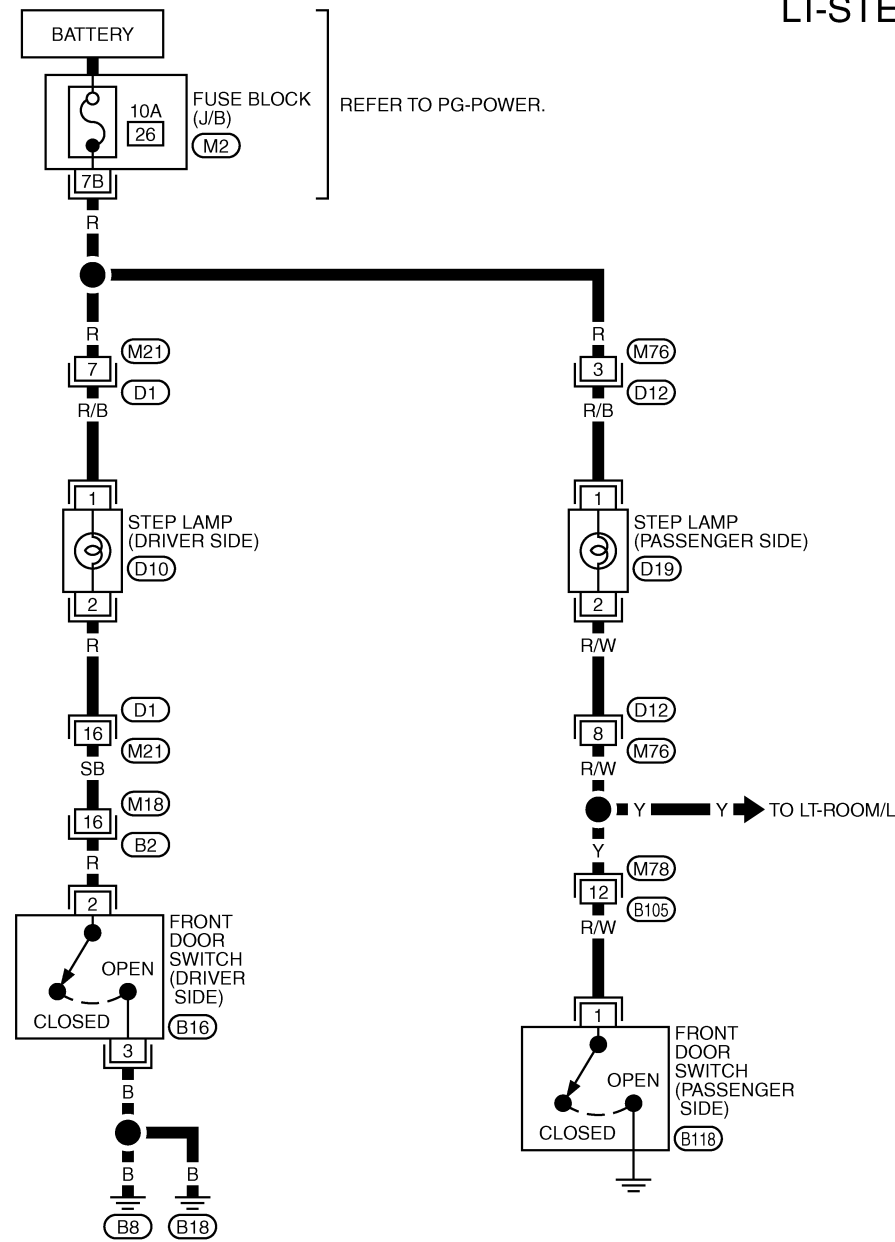
STEP LAMP

PFP:26420

Wiring Diagram — STEP/L —  
LHD MODELS

EKS00F8B

LT-STEP/L-01



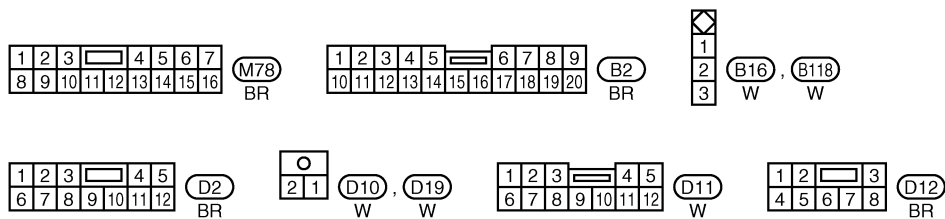
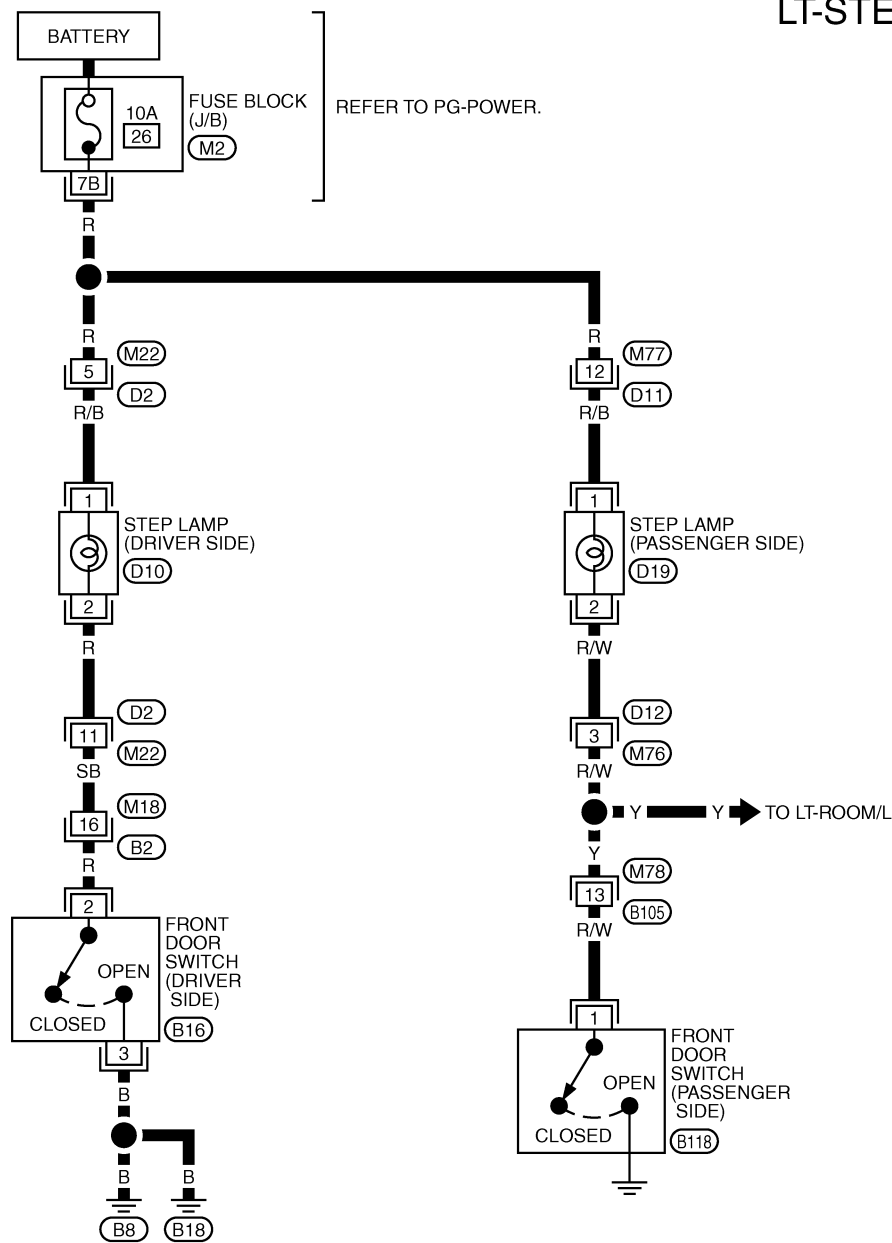
REFER TO THE FOLLOWING.  
M2 -FUSE BLOCK-JUNCTION  
BOX (J/B)



STEP LAMP

RHD MODELS

LT-STEP/L-02



REFER TO THE FOLLOWING.  
M2 -FUSE BLOCK-JUNCTION BOX (J/B)

# MAP LAMP

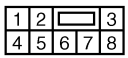
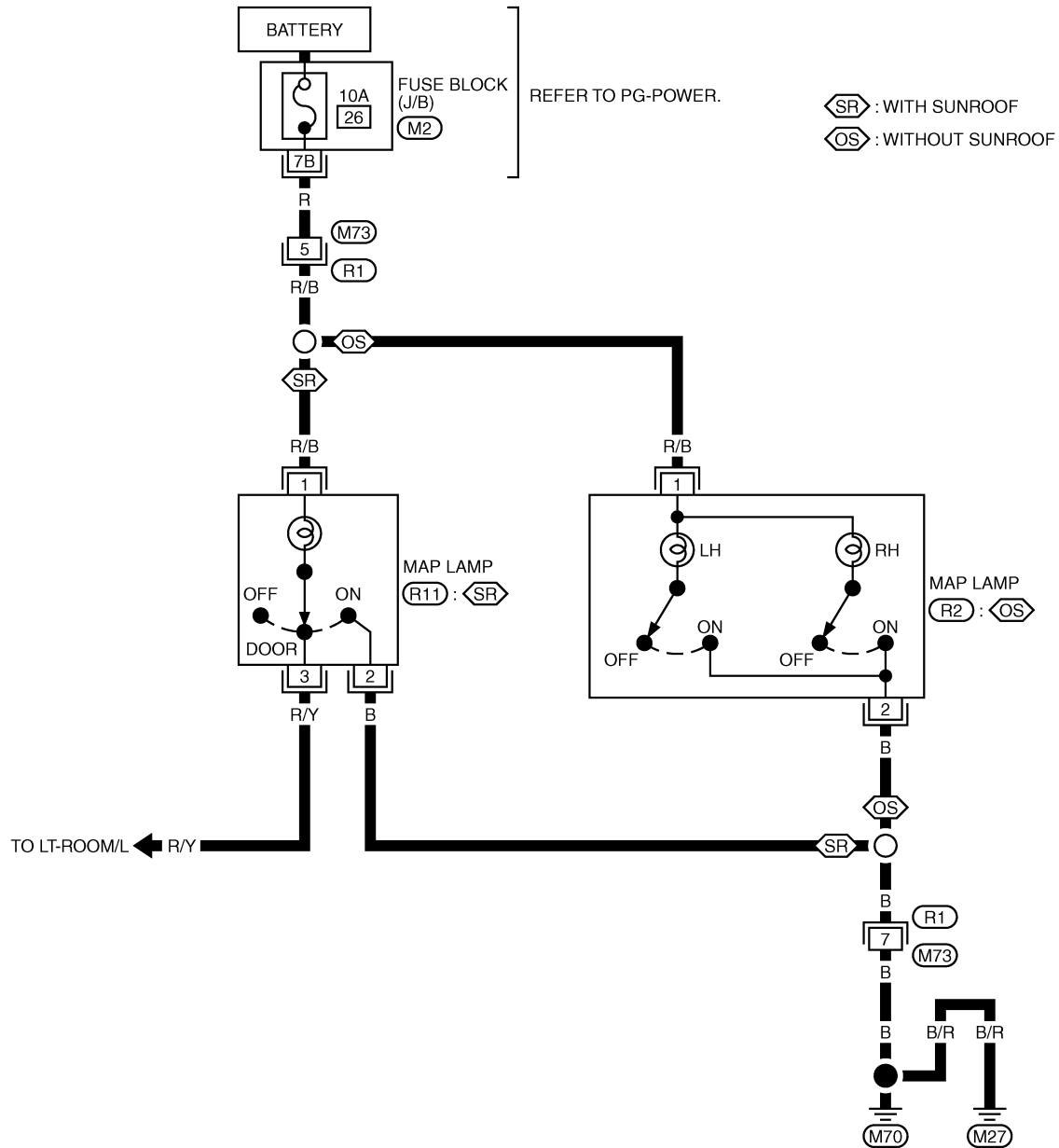
## MAP LAMP

PFP:26430

## Wiring Diagram —INT/L—

EKS00F88

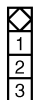
LT-INT/L-01



R1  
W



R2  
W



R11  
W

REFER TO THE FOLLOWING.

(M2) - FUSE BLOCK-JUNCTION BOX (J/B)

# MAP LAMP

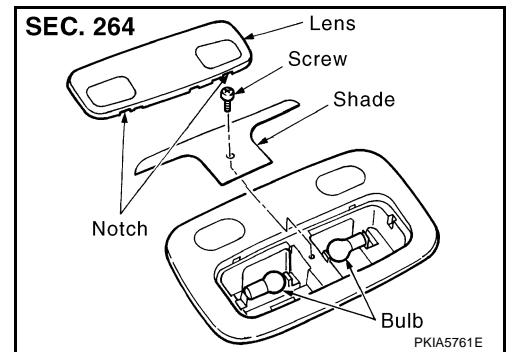
## Bulb Replacement

### MAP LAMP (WITHOUT SUNROOF)

EKS00F89

1. Remove the lens using a clip driver or a suitable tool.
2. Remove the shade mounting screw and remove the shade from the map lamp.
3. Remove the bulb.

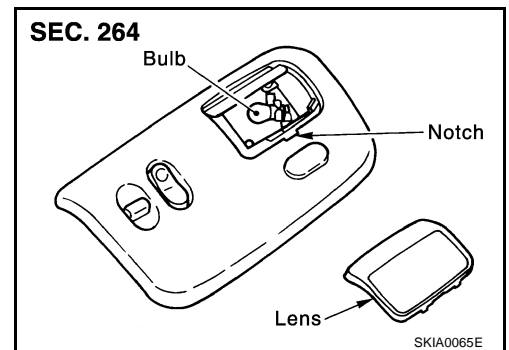
Map lamp (Without sunroof) : 12V 8W



### MAP LAMP (WITH SUNROOF)

1. Remove the lens using a clip driver or a suitable tool.
2. Remove the bulb.

Map lamp (With sunroof) : 12V 10W

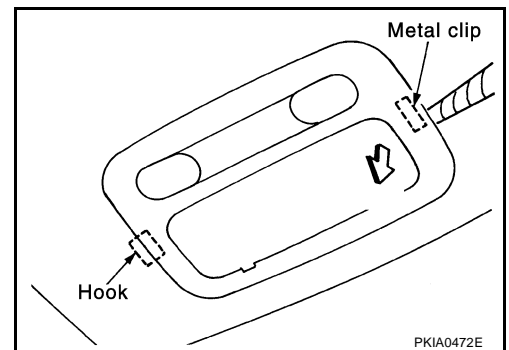


## Removal and Installation

### MAP LAMP (WITHOUT SUNROOF)

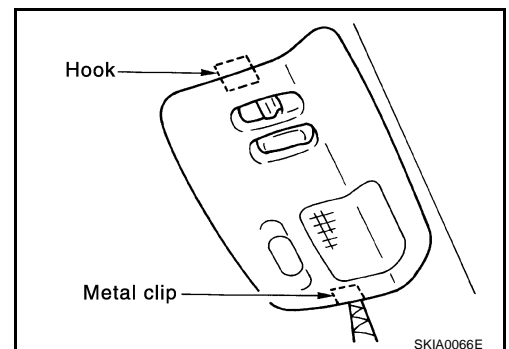
EKS00F8A

1. Using a clips driver or a suitable tool, press and remove the metal clip of the map lamp.
2. Disconnect the map lamp connector.



### MAP LAMP (WITH SUNROOF)

1. Using a clips driver or a suitable tool, press and remove the metal clip of the map lamp.
2. Disconnect the map lamp connector and sunroof connector.



# BULB SPECIFICATIONS

## BULB SPECIFICATIONS

PFP:26297

### Headlamp

EKS003GS

Item	Wattage (W)
Low/High	55 /60(H4)
Driving lamp	65(H1R1)

### Exterior Lamp

EKS003GT

Item	Wattage (W)
Front combination lamp	Clearance lamp
	5
Front turn signal lamp	21(amber)
Side turn signal lamp	5
Fog lamp	Front fog lamp
	55(H11)
	Rear fog lamp
	21
Rear combination lamp	Stop/Tail lamp
	21/5
	Turn signal lamp
	21
	Back-up lamp
	21
License plate lamp	5
High-mounted stop lamp	5

### Interior Lamp/Illumination

EKS003GU

Item	Wattage (W)
Ashtray illumination	1.4
Interior room lamp	10
Spot lamp	Without sunroof
	8
	With sunroof
	10
Luggage room lamp	10