

SECTION **LT**

LIGHTING SYSTEM

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M

PRECAUTION

PFP:00011

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

EKS009LJ

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

EKS009LK

- 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

EKS009LL

When you read wiring diagrams, refer to the following:

- [GI-14, "How to Read Wiring Diagrams"](#) in GI section
- [PG-3, "POWER SUPPLY ROUTING"](#) for power distribution circuit in PG section

When you perform trouble diagnosis, refer to the following:

- [GI-11, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#) in GI section
- [GI-24, "How to Perform Efficient Diagnosis for an Electrical Incident"](#) in GI section

HEADLAMP -CONVENTIONAL TYPE-

HEADLAMP -CONVENTIONAL TYPE-

PFP:26010

System Description DESCRIPTION

EKS009LM

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

- to lighting switch terminal 8
- through 15A fuse (No. 41, located in the fuse and fusible link box), and
- to lighting switch terminal 5
- through 15A fuse (No. 42, located in the fuse and fusible link box).

LOW BEAM OPERATION

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

- from lighting switch terminal 10
- to terminal 5 of the headlamp LH, and
- from lighting switch terminal 7
- to terminal 5 of the headlamp RH.

Terminal 3 of each headlamp supplies ground through body grounds E10 and E58.
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 ("A") position or PASS ("C") position, power is supplied

- from lighting switch terminal 9
- to terminal 4 of headlamp LH, and
- to combination meter terminal 20 (LHD models) or 7 (RHD models) for the HIGH BEAM indicator.
- from lighting switch terminal 6
- to terminal 4 of headlamp RH.

Ground is supplied to terminal 21 (LHD models) or 8 (RHD models) of the combination meter through body grounds M16, M50 and M70.

Ground is supplied to terminal 3 of each headlamp through body grounds E10 and E58.
With power and ground supplied, the high beams and the HIGH BEAM indicator illuminate.

A

B

C

D

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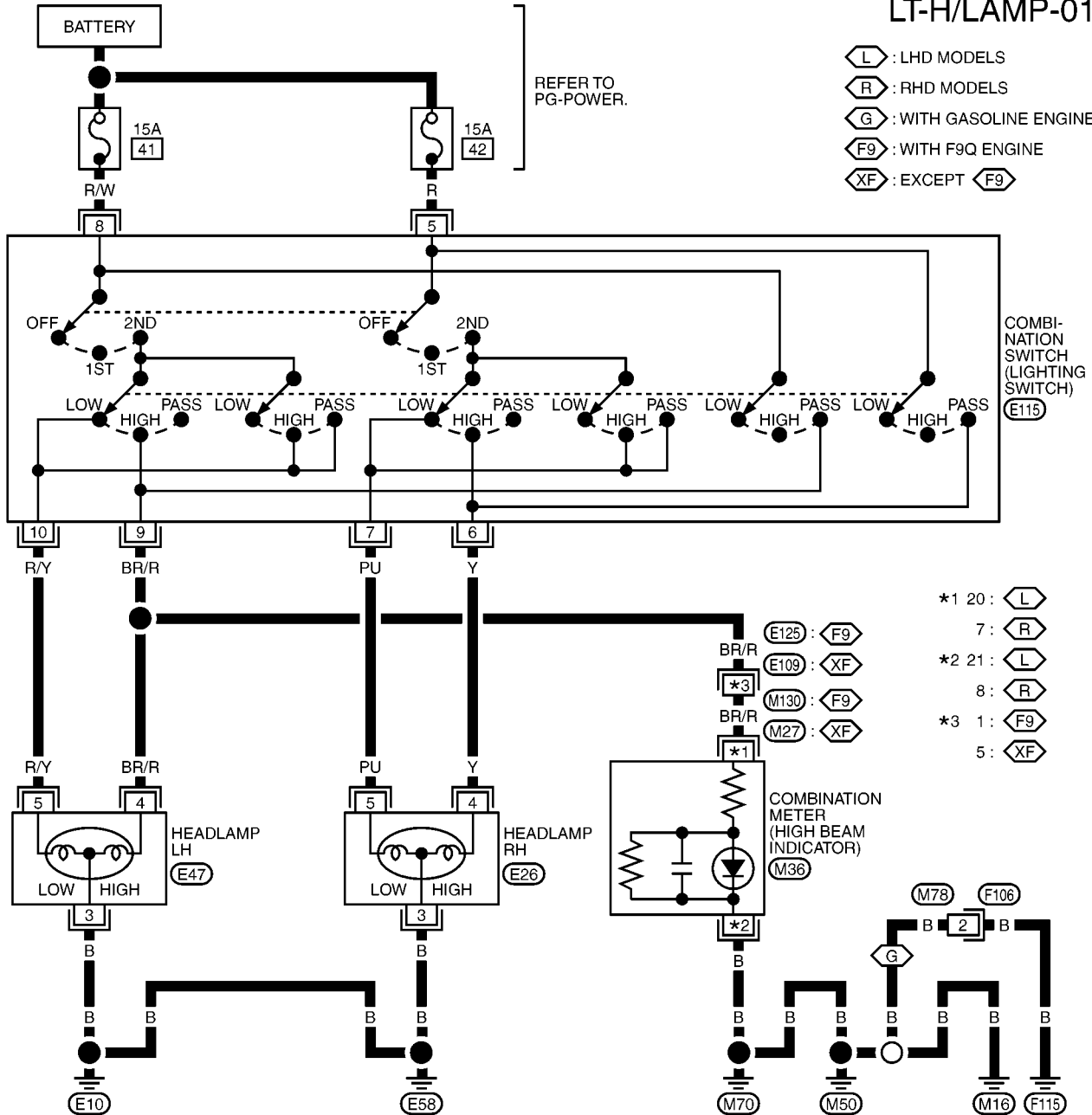
HEADLAMP -CONVENTIONAL TYPE-

Wiring Diagram — H/LAMP —

EKS009LN

LT-H/LAMP-01

- (L) : LHD MODELS
- (R) : RHD MODELS
- (G) : WITH GASOLINE ENGINE
- (F9) : WITH F9Q ENGINE
- (XF) : EXCEPT (F9)



- *1 20: (L)
- 7: (R)
- *2 21: (L)
- 8: (R)
- *3 1: (F9)
- 5: (XF)

- E125: (F9)
- E109: (XF)
- M130: (F9)
- M27: (XF)

COMBINATION METER (HIGH BEAM INDICATOR) (M36)

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

(M36)
L

1	2	3	4	5
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(E26), (E47)
B B

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

(E109)
W

2	1	3	8	25
10	7	6	5	9

(E115)
BR

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

(E125)
W

1
2

(F106)
W

HEADLAMP -CONVENTIONAL TYPE-

Trouble Diagnoses

EKS009LO

Symptom	Possible cause	Repair order
LH headlamps do not operate.	<ol style="list-style-type: none"> 1. Bulb 2. Grounds E10 and E58 3. 15A fuse 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check grounds E10 and E58. 3. Check 15A fuse (No. 41, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 8 (R/W) of lighting switch. 4. Check lighting switch.
RH headlamps do not operate.	<ol style="list-style-type: none"> 1. Bulb 2. Grounds E10 and E58 3. 15A fuse 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check grounds E10 and E58. 3. Check 15A fuse (No. 42, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 5 (R) of lighting switch. 4. Check lighting switch.
LH high beam does not operate, but LH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH high beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 9 (BR/R) and LH headlamp terminal 4 (BR/R) for an open circuit. 3. Check lighting switch.
LH low beam does not operate, but LH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH low beam circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 10 (R/Y) and LH headlamp terminal 5 (R/Y) for an open circuit. 3. Check lighting switch.
RH high beam does not operate, but RH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH high beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 6 (Y) and RH headlamp terminal 4 (Y) for an open circuit. 3. Check lighting switch.
RH low beam does not operate, but RH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH low beam circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 7 (PU) and RH headlamp terminal 5 (PU) for an open circuit. 3. Check lighting switch.
High beam indicator does not work.	<ol style="list-style-type: none"> 1. Bulb 2. Grounds M16, M50 and M70 or M16, M50, M70 and F115 (Gasoline engine) 3. Open in high beam circuit 	<ol style="list-style-type: none"> 1. Check bulb in combination meter. 2. Check grounds M16, M50 and M70. 3. Check continuity between lighting switch terminal 9 (BR/R) and combination meter terminal 20 (BR/R) LHD or 7 (BR/R) RHD for an open circuit.

Aiming Adjustment

EKS009LP

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).

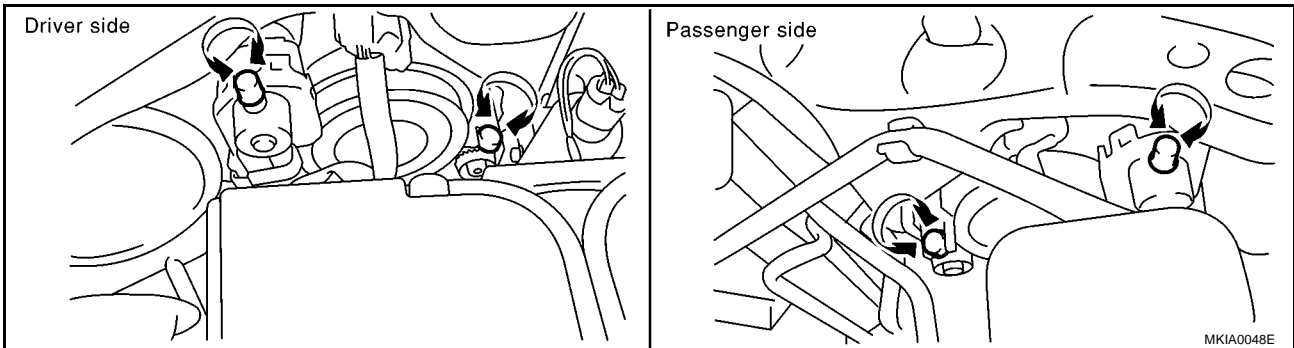
HEADLAMP -CONVENTIONAL TYPE-

CAUTION:

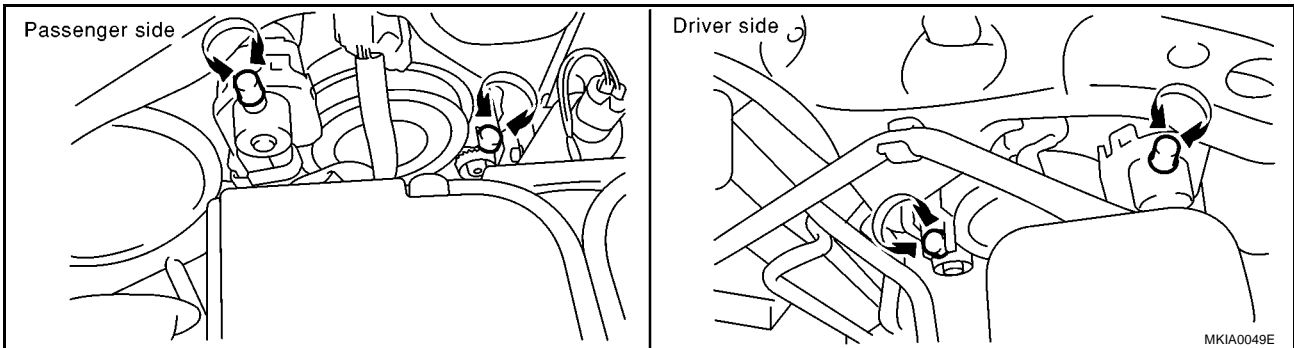
Be sure aiming switch is set to "0" when performing aiming adjustment.

LOW BEAM

1. Turn headlamp low beam on.
LHD models



RHD models



2. Use adjusting pots to perform aiming adjustment.

- First tighten the adjusting pot all the way and then make adjustment by loosening the pot.

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 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

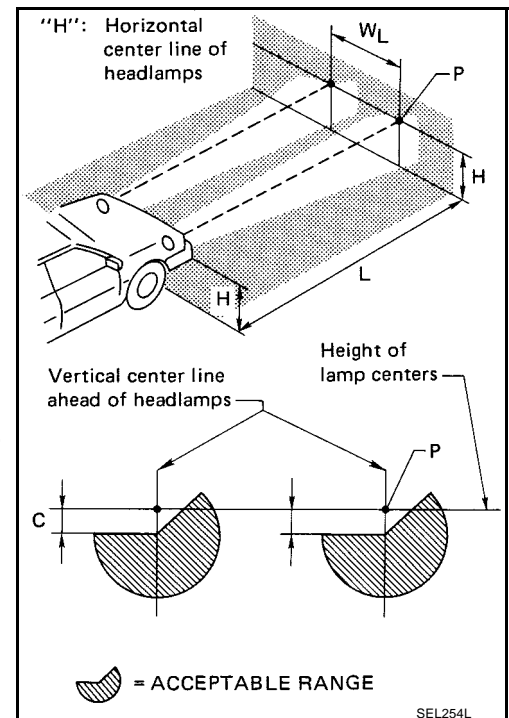
"L" : 25 m (98.43 in)

"C" : 250 mm (9.84 in)

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

CAUTION:

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



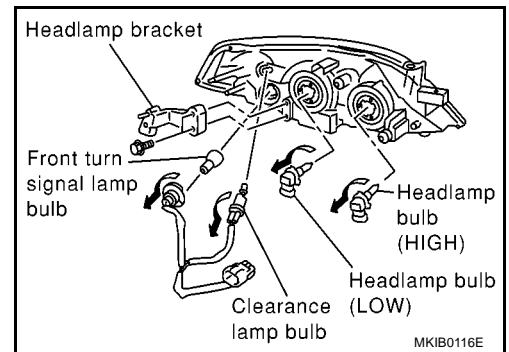
HEADLAMP -CONVENTIONAL TYPE-

Bulb Replacement HEADLAMP

EKS009LQ

1. Disconnect connector of headlamp.
2. Unlock retaining spring, then remove bulb.

Headlamp (Low) : 12V - 55W (H7)
Headlamp (High) : 12V - 55W (H7)



CLEARANCE LAMP, FRONT TURN SIGNAL LAMP

1. Turn the bulbsocket counterclockwise and unlock it.
2. Remove the bulb from its socket.

Clearance lamp : 12V - 5W
Front turn signal lamp : 12V - 21W

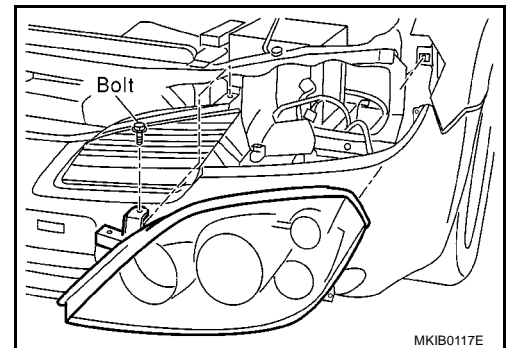
CAUTION:

- 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 headlamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of headlamp. When replacing bulb, be sure to replace it with new one.
- When bulb is installed, be sure to lock rubber cap to ensure watertightness.

Removal and Installation REMOVAL

EKS009LR

1. Disconnect connector of headlamp and clearance lamp.
2. Remove the front grille. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
3. Remove the headlamp mounting bolts.
4. 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 screws and nut

Tightening torque : 4.4 - 5.8 N·m (0.45 - 0.59 kg·m, 39 - 51 in·lb)

HEADLAMP - XENON TYPE -

PFP:26010

System Description

EKS009LS

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

- to lighting switch terminal 8
- through 15A fuse (No. 41, located in the fuse and fusible link box) and
- to lighting switch terminal 5
- through 15A fuse (No. 42, located in the fuse and fusible link box) and
- to headlamp LH relay terminal 3
- through 15A fuse (No. 37, located in the fuse and fusible link box) and
- to headlamp RH relay terminal 3
- through 15A fuse (No. 36, located in the fuse and fusible link box).

LOW BEAM OPERATION

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

- from terminal 5 of each headlamp relay
- to terminal 5 of each headlamps

Terminal 3 of each headlamp supplies ground through body grounds E10 and E58.

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

HIGH BEAM OPERATION/FLASH-TO-PASS OPERATION

When the lighting switch is turned to 2ND position and placed in HIGH ("A") position or PASS ("C") position, power is supplied.

- from lighting switch terminal 6
- to terminal 4 of headlamp RH.
- from lighting switch terminal 9
- to terminal 4 of headlamp LH, and
- to combination meter terminal 20 (LHD models) or 7 (RHD models) for the HIGH BEAM indicator.

Ground is supplied to terminal 21 (LHD models) or 8 (RHD models) of the combination meter through body grounds M16, M50 and M70.

Ground is supplied to terminal 2 of each headlamp through body grounds E10 and E58.

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

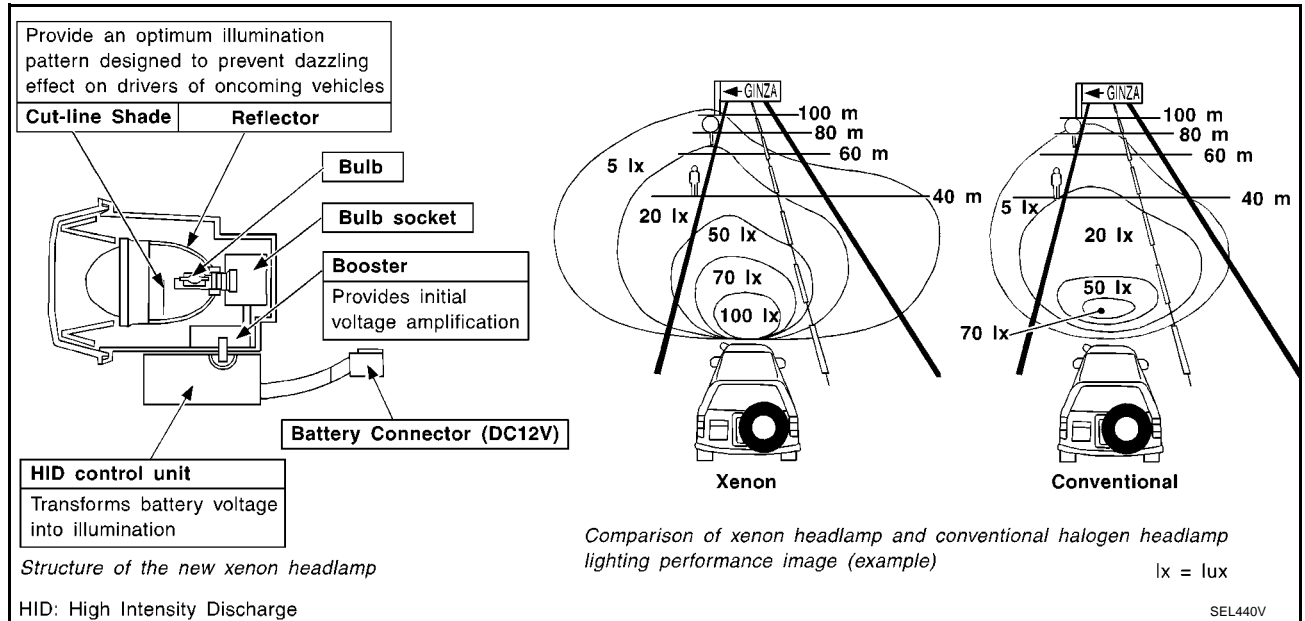
Xenon type headlamp is adopted to the low beam headlamps. Xenon bulbs do not use a filament. Instead, they produce light when a high voltage current is passed between two tungsten electrodes through a mixture of xenon (an inert gas) and certain other metal halides. In addition to added lighting power, electronic control of the power supply gives the headlamps stable quality and tone color.

Following are some of the many advantages of the xenon type headlamp.

- The light produced by the headlamps is white color approximating sunlight that is easy on the eyes.
- Light output is nearly double that of halogen headlamps, affording increased area of illumination.
- The light features a high relative spectral distribution at wavelengths to which the human eye is most sensitive, which means that even in the rain, more light is reflected back from the road surface toward the vehicle, for added visibility.

HEADLAMP - XENON TYPE -

- Power consumption is approximately 25 percent less than halogen headlamps, reducing battery load.

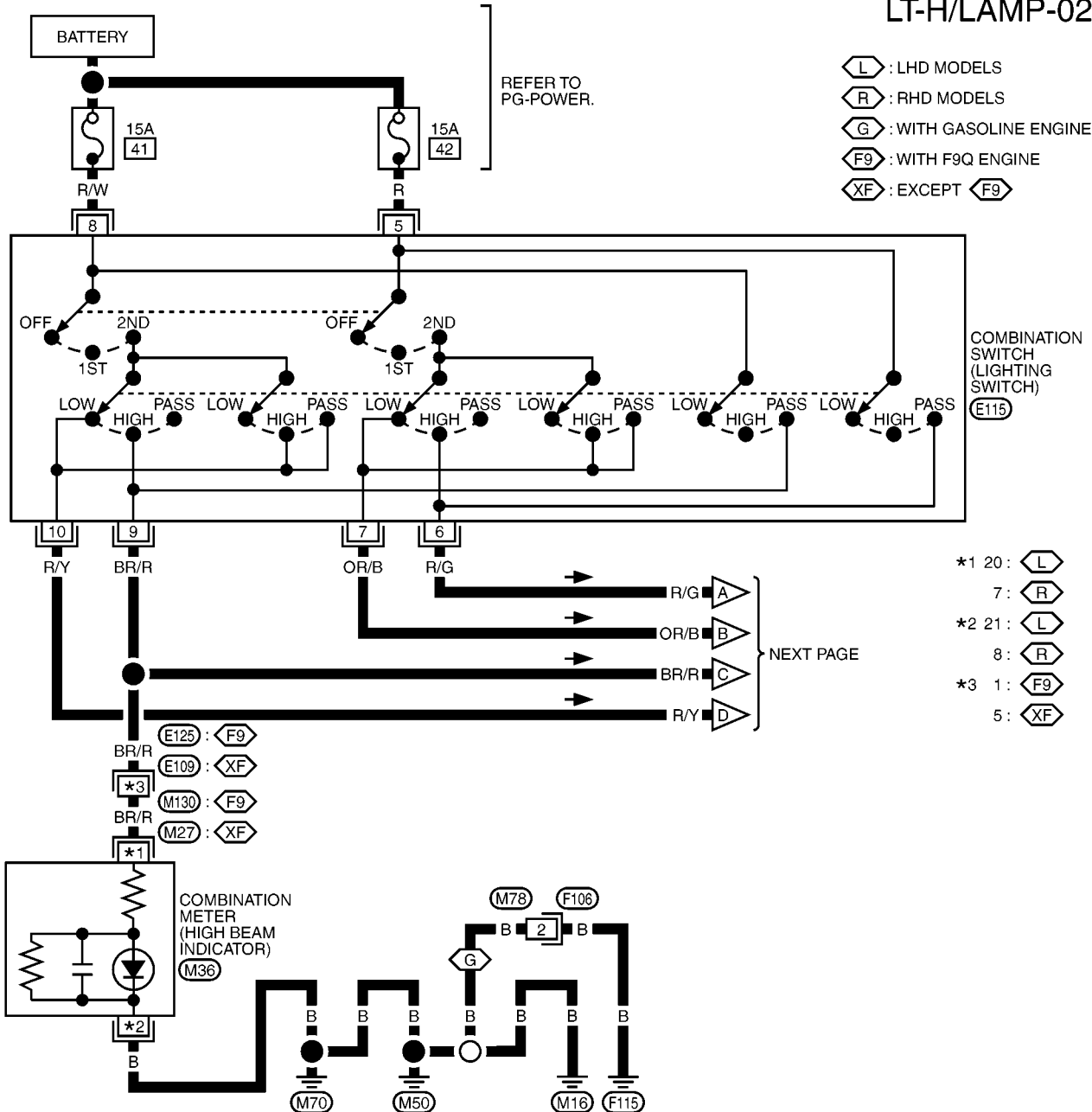


HEADLAMP - XENON TYPE -

Wiring Diagram - H/LAMP -

EKS009LT

LT-H/LAMP-02



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

(M36)
L

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

(E109)
W

2	1	3	8	25
10	7	6	5	9

(E115)
BR

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

(E125)
W

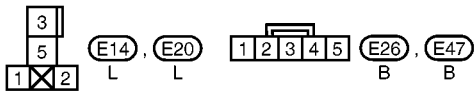
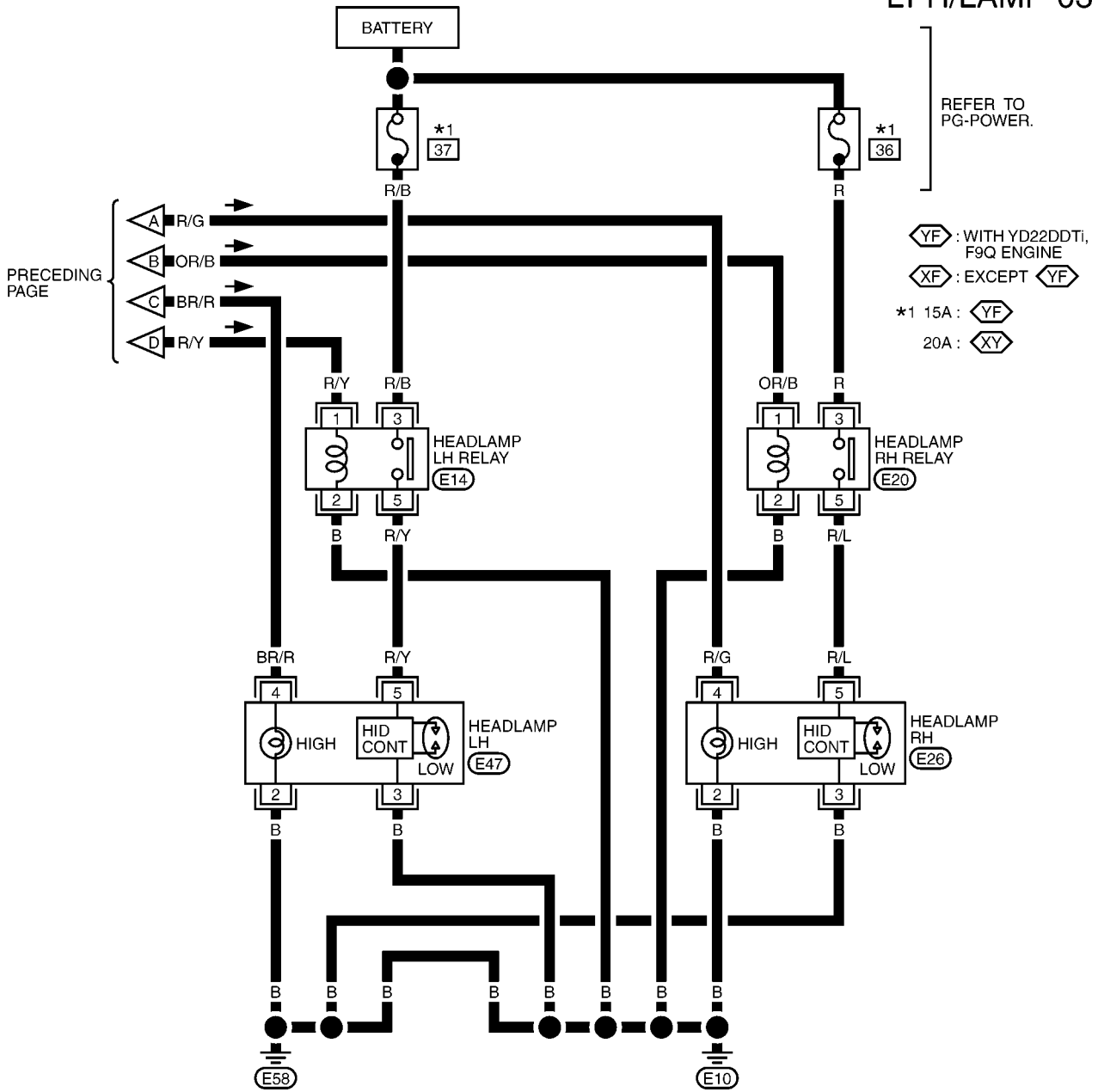
1
2

(F106)
W

HEADLAMP - XENON TYPE -

LT-H/LAMP-03

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H
I
J
LT
L
M



MKWA1087E

HEADLAMP - XENON TYPE -

WARNING:

- The xenon headlamp has a high-tension current generating area. Be extremely careful when removing and installing. Be certain to disconnect the battery negative cable prior to removing or installing.
- When the xenon headlamp is lit, do not touch the harness (covered with red or amber insulation), bulb itself or the bulb socket with your bare hands.
- Never service a xenon headlamp with wet hands.
- When checking body side harness with a circuit tester, be certain to disconnect the harness connector from the xenon headlamp.
- When the xenon headlamp is lit, the xenon bulb must be installed in the headlamp housing. (Never turn on xenon headlamp, if the bulb is out of the headlamp housing.)

CAUTION:

Make sure to install the bulb securely; if the xenon bulb is improperly installed in its socket, high-tension current leaks occur. This may lead to a melted bulb and/or bulb socket.

Trouble Diagnosis

EKS009LU

Symptom	Possible cause	Repair order
LH or RH xenon headlamp (low beam) blinks, lacks brightness or does not illuminate.	1. 20A fuse 2. Relay 3. Power supply circuit to headlamp low beam 4. Xenon bulb 5. HID control unit and booster	1. Check 15A fuse [No. 37: LH, No. 36: RH, located in fuse and fusible link box]. Verify battery positive voltage present at terminal 5 (R/Y) or (R/L) of headlamp LH or RH. 2. Check Headlamp relay. 3. Verify battery positive voltage is present at terminal 5 of headlamp harness with lighting switch in "2nd" and "Low" positions. (Before inspecting headlamp terminal, disconnect headlamp connector with lighting switch in "OFF" position.) 4. Replace the xenon bulb with the other side bulb or new one. (If headlamps illuminate correctly, replace the bulb.) 5. Replace the HID control unit and booster as a headlamp assembly.
LH or RH [both headlamp high and xenon (low) beam] do not illuminate.	1. Bulb 2. 15A fuse 3. Ground circuit 4. Lighting switch	1. Check bulb. 2. Check 15A fuse [No. 41: LH, No. 42: RH located in fuse and fusible link box]. 3. Check continuity between headlamp terminal 2 or 3 and body ground. (Before inspecting headlamp terminal, disconnect headlamp connector with lighting switch in "OFF" position.) 4. Check lighting switch.

HEADLAMP - XENON TYPE -

Symptom	Possible cause	Repair order
LH or RH headlamp high beam does not illuminate.	<ol style="list-style-type: none"> 1. Bulb 2. Power supply circuit to headlamp high beam 3. Ground circuit 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Verify battery positive voltage is present at terminal 4 of headlamp harness with lighting switch in "2nd" and "HIGH" position. (Before inspecting headlamp terminal, disconnect headlamp connector with lighting switch in "OFF" position.) 3. Check continuity between headlamp terminal 2 and ground circuit. 4. Check lighting switch.
High beam indicator does not work.	<ol style="list-style-type: none"> 1. Grounds M16, M50 and M70 2. Open in high beam circuit 3. Combination meter 	<ol style="list-style-type: none"> 1. Check grounds M16, M50 and M70 2. Check continuity between lighting switch terminal 9 (BR/R) and combination meter terminal 20 (BR/R) LHD or 7 (BR/R) RHD for an open circuit. 3. Check combination meter.

HID: High Intensity Discharge

Aiming Adjustment

EKS009LV

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.

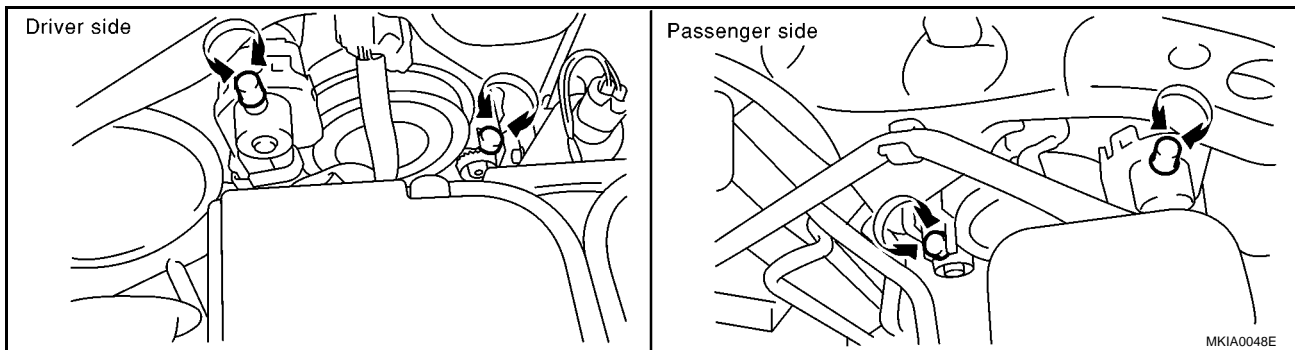
If any aimer is not available, aiming adjustment can be done as follows:

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

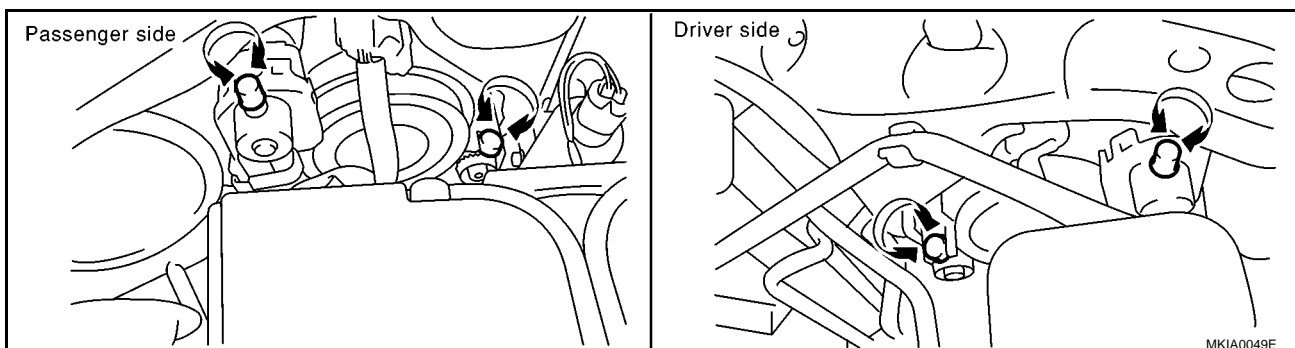
- Keep all tires inflated to correct pressures.
- Place vehicle and tester on one and same flat surface.
- See that there is no-load in vehicle (coolant, engine oil filled up to correct level and full fuel tank) other than the driver (or equivalent weight placed in driver's position).

LOW BEAM

1. Turn headlamp low beam on.
LHD models



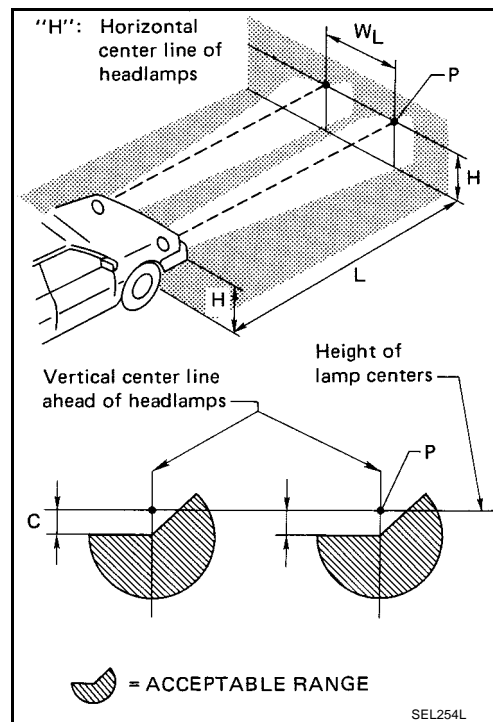
RHD models



2. Use adjusting pots to perform aiming adjustment.

HEADLAMP - XENON TYPE -

- First tighten the adjusting pot all the way and then make adjustment by loosening the pot.
- 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 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 m (98.43 in)
“C” : 250 mm (9.84 in)
- Basic illuminating area for adjustment should be within the range shown in the figure. Adjust headlamps accordingly.



EKS009LW

Bulb Replacement

CAUTION:

- After replacing a new xenon bulb, be sure to make aiming adjustments.
 - Hold only the plastic base when handling the bulb. Never touch the glass envelope.
 - Do not leave headlamp reflector without bulb for a long period of time. Dust, moisture, smoke, etc. entering headlamp body may affect the performance of the headlamp. Remove headlamp bulb from the headlamp reflector just before a replacement bulb is installed.
1. Disconnect negative battery cable.
 2. Disconnect headlamp connector.

WARNING:

Never service a xenon headlamp with wet hands.

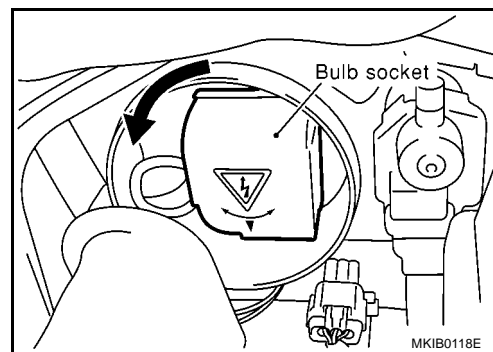
XENON BULB (LOW BEAM)

1. Remove washer inlet. (RH bulb)
2. Remove headlamp seal cover.
Turn bulb socket counterclockwise and unlock it.
3. Release retaining pin.
4. Remove the xenon bulb.
5. Install in the reverse order of removal.

Headlamp (LOW) : 12V - 35W (D2R)

CAUTION:

- When disposing of the xenon bulb, do not break it; always dispose of it as is.
- Make sure to install the bulb securely; if the xenon bulb is improperly installed in its socket, high-tension current leaks occur. This may lead to a melted bulb and/or bulb socket.



HIGH BEAM

1. Pull off headlamp seal cover.

HEADLAMP - XENON TYPE -

2. Disconnect bulb connector.
3. Release retaining pin.
4. Remove the bulb.
5. Install in the reverse order of removal.

Headlamp (HIGH) : 12V - 55W (H7)

CLEARANCE LAMP, FRONT TURN SIGNAL LAMP

Refer to [LT-9, "CLEARANCE LAMP, FRONT TURN SIGNAL LAMP"](#) .

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 headlamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of headlamp. When replacing bulb, be sure to replace it with new one.
- When bulb is installed, be sure to lock rubber cap to ensure watertightness.

Removal and Installation

EKS009LX

REMOVAL

Refer to [LT-9, "REMOVAL"](#) .

INSTALLATION

Refer to [LT-9, "INSTALLATION"](#) .

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HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

PFP:26010

System Description DESCRIPTION

EKS009LY

The headlamp system for Northern Europe vehicles contains a daytime light control unit that activates the low beam headlamps whenever the engine is running.

Power is supplied at all times

- to daytime light control unit terminal 1
- to lighting switch terminal 11
- through 10A (No. 32, located in the fuse and fusible link box), and
- to daytime light control unit terminal 3
- to lighting switch terminal 5
- through 15A (No. 42, located in the fuse and fusible link box), and
- to daytime light control unit terminal 2
- to lighting switch terminal 8
- through 15A (No. 41, located in the fuse and fusible link box)

Ground is supplied to daytime light control unit terminal 9 through body grounds E10 and E58.

When the ignition switch is in the ON or START position, power is supplied (F9Q engine models)

- to daytime light control unit terminal 7
- through 10A (No. 10, located in the fuse and fusible link box)
- to daytime light control unit terminal 6
- through 10A (No. 21, located in the fuse and fusible link box)

HEADLAMP OPERATION (DAYTIME CANCEL OPERATION)

For description, refer to [LT-5, "System Description"](#).

When the lighting switch is turned to 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 unit.

DAYTIME LIGHT OPERATION

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

- from alternator terminal 3
- to daytime light control unit terminal 8 and
- from daytime light control unit terminal 2
- through daytime light control unit terminal 5
- to terminal 5 of LH headlamp, and
- from daytime light control unit terminal 3,
- through daytime light control unit terminal 4
- to terminal 5 of RH headlamp and
- from daytime light control unit terminal 1
- through daytime light control unit terminal 10

Ground is supplied to terminal 3 of each headlamp through body grounds E10 and E58.

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EKS009LZ



HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

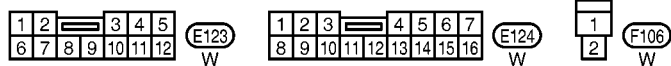
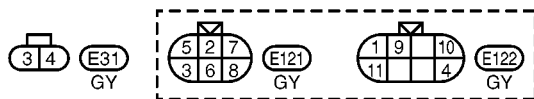
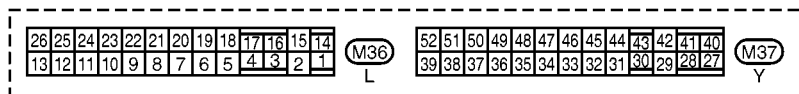
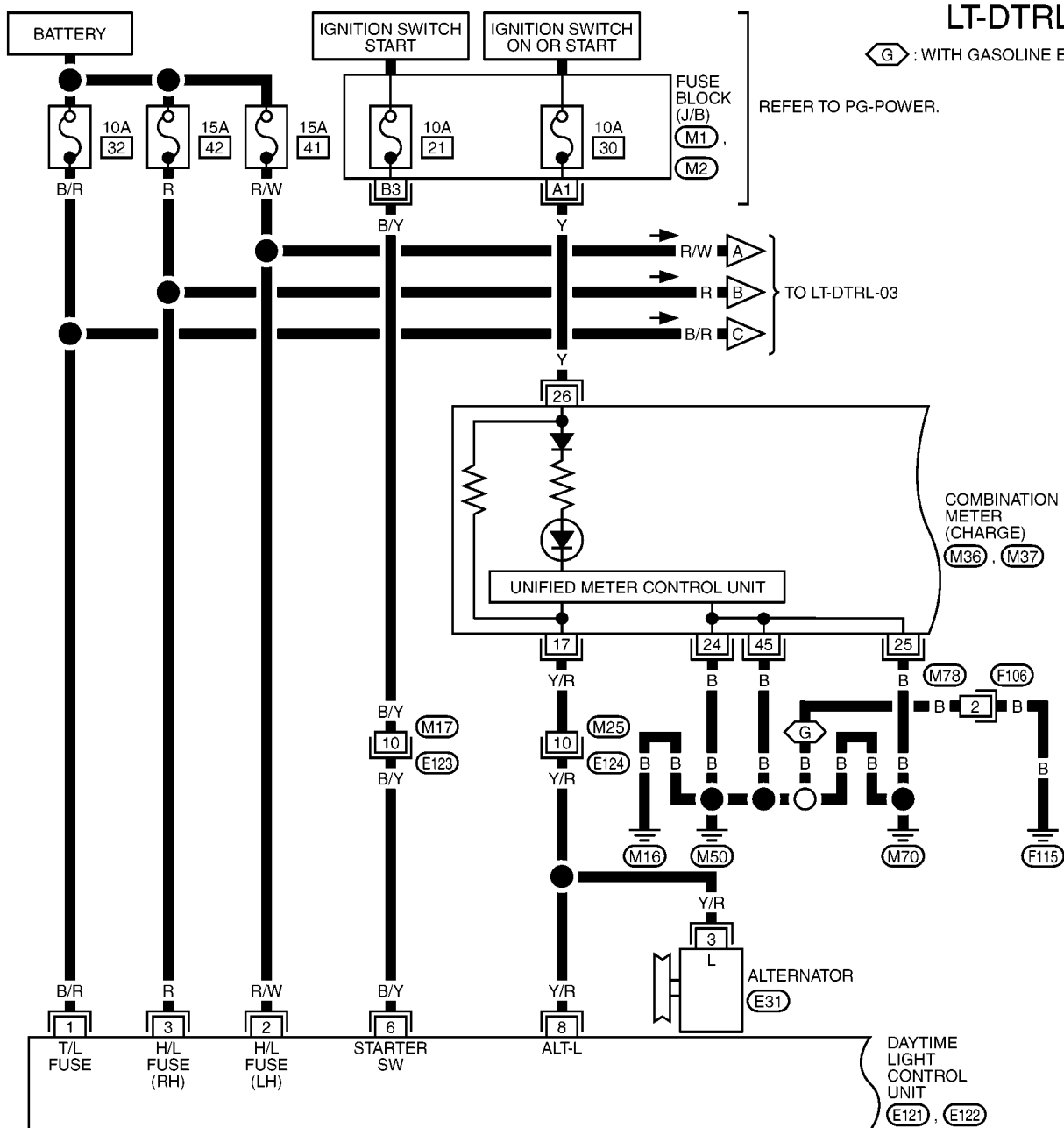
Wiring Diagram — DTRL — EXCEPT FOR F9Q ENGINE MODELS

EKS009M0

LT-DTRL-01

⬡ : WITH GASOLINE ENGINE

REFER TO PG-POWER.



REFER TO THE FOLLOWING.

⬡, ⬢ - FUSE BLOCK-JUNCTION BOX (J/B)

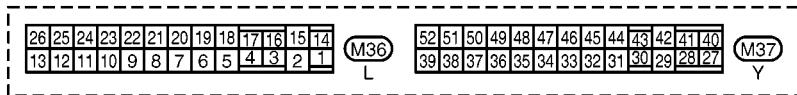
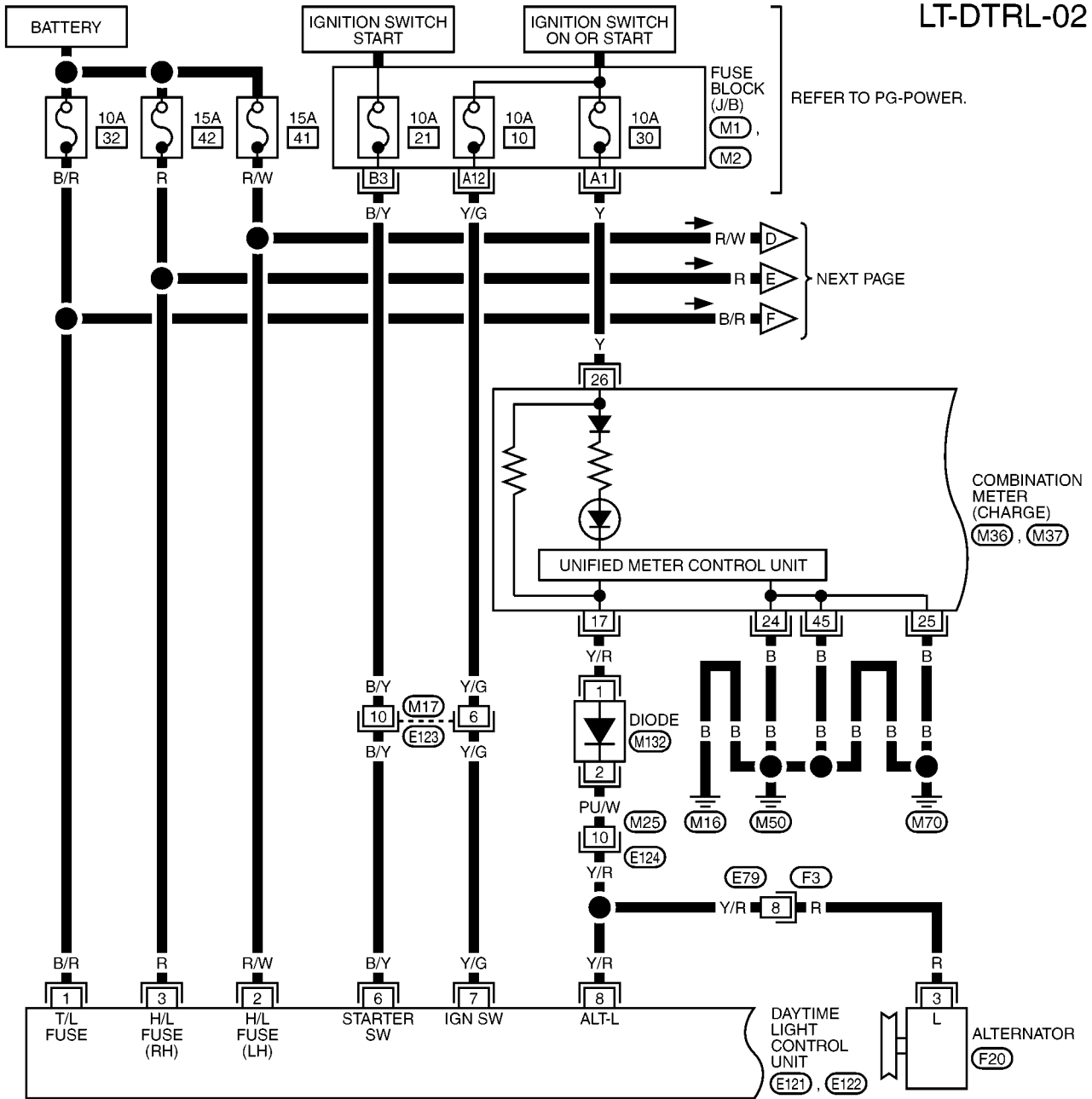
MKWA1089E

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

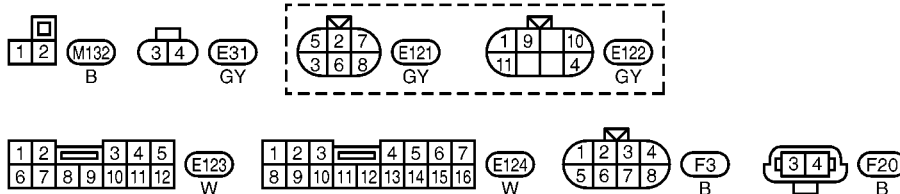
FOR F9Q ENGINE MODELS

LT-DTRL-02

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REFER TO THE FOLLOWING.
M1, M2 - FUSE BLOCK-JUNCTION BOX (J/B)

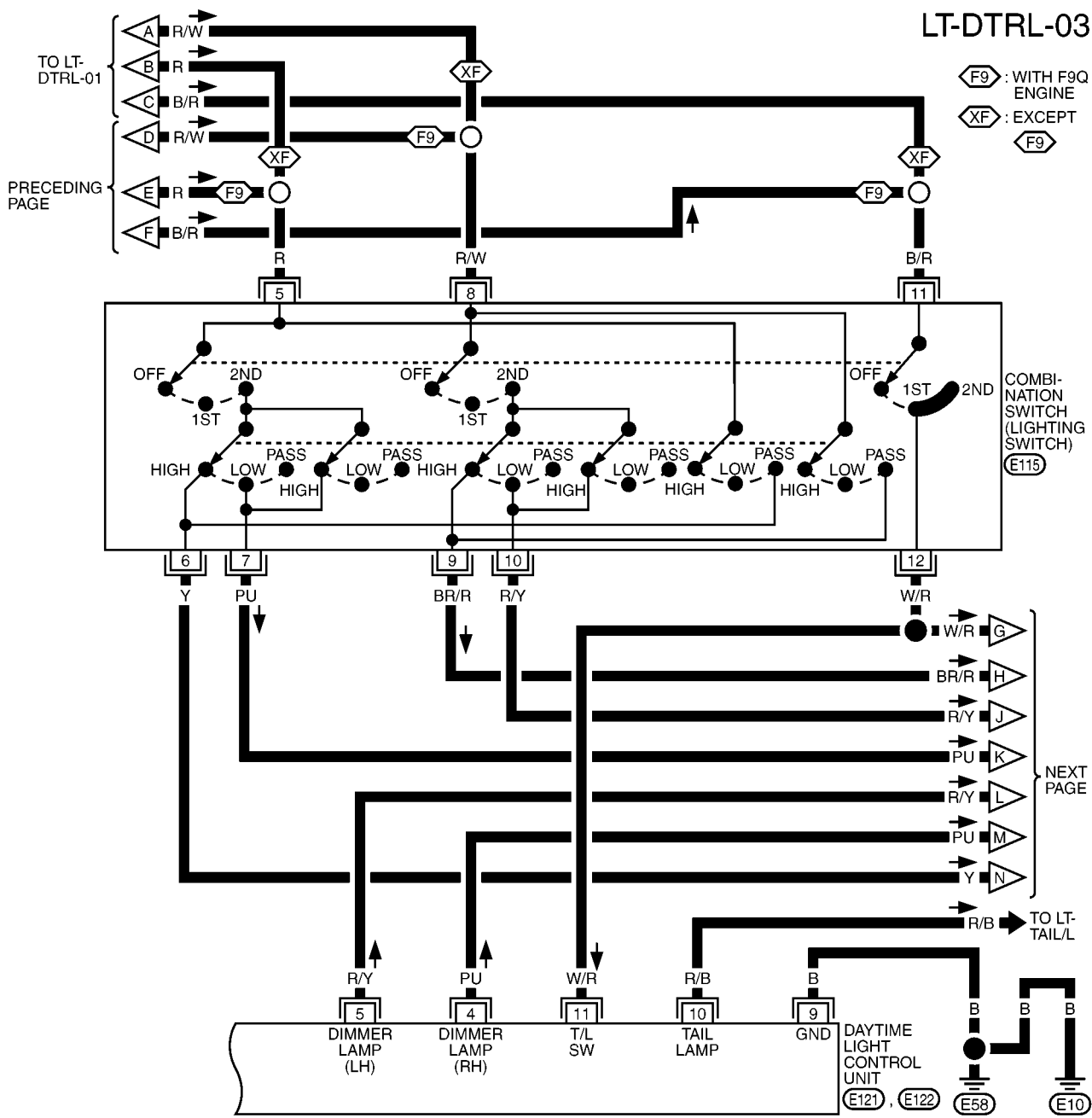


MKWA1090E

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

FOR ALLENGINE MODELS

LT-DTRL-03



2	1	3	8	25
10	7	6	5	9

(E115) BR

5	2	7
3	6	8

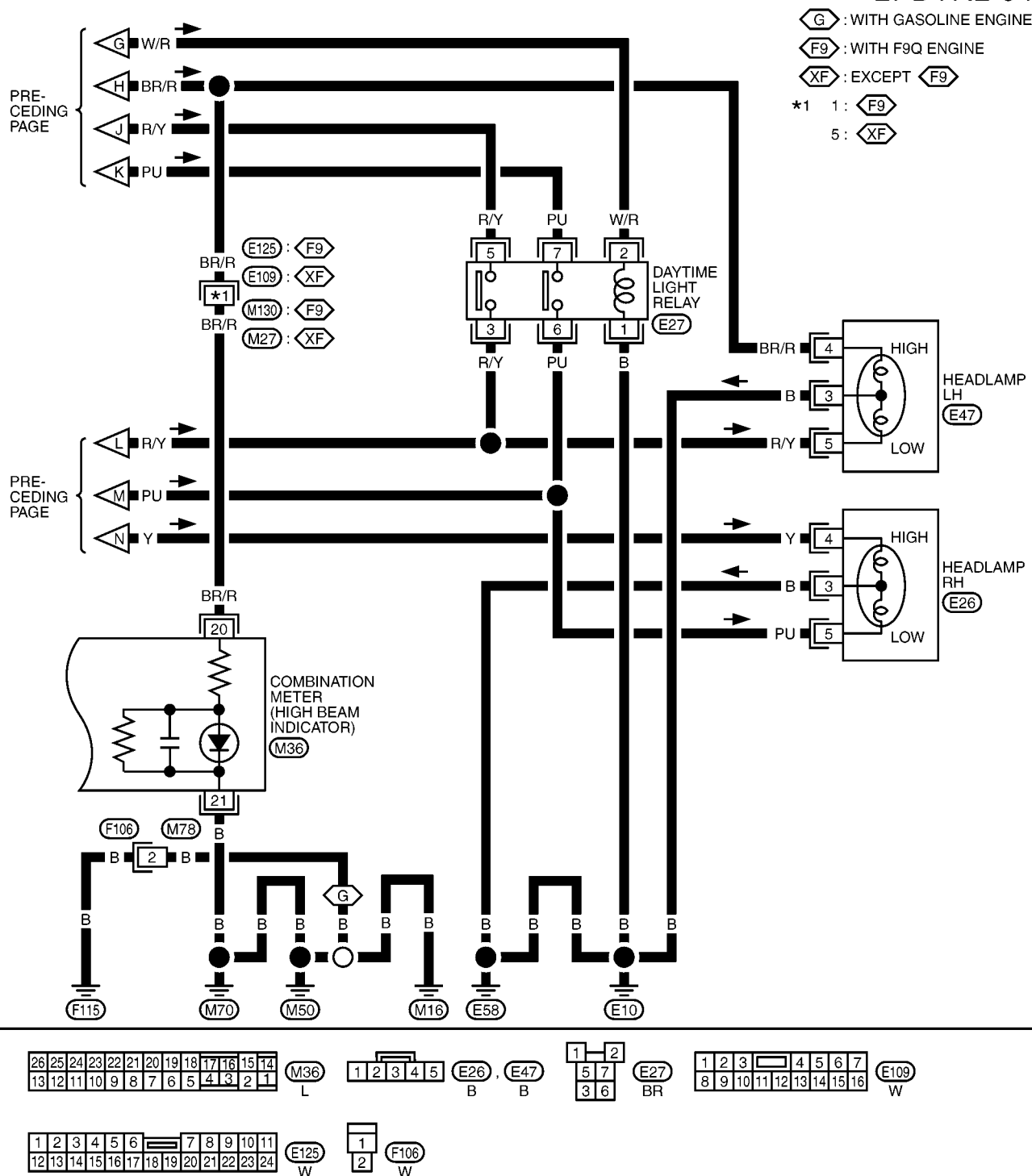
(E121) GY

1	9	10
11		4

(E122) GY

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

LT-DTRL-04



MKWA1092E

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

Terminal and Reference Value for Daytime Light Control Unit

EKS009M1

Terminal	Wire color	Item	Condition	Voltage (V) (Approx.)
1	B/R	BAT power supply	—	Battery voltage
2	R/W	BAT power supply	—	Battery voltage
3	R	BAT power supply	—	Battery voltage
4	PU	RH low beam	When lighting switch is turned to the 2ND position	Battery voltage
			When engine is running and turning lighting switch to "OFF" (daytime light operation)	Battery voltage
5	R/Y	LH low beam	When lighting switch is turned to the 2ND position	Battery voltage
			When engine is running and turning lighting switch to "OFF" (daytime light operation)	Battery voltage
6	B/Y	Start signal	When turning ignition switch to "START"	Battery voltage
			When turning ignition switch to "ON" from "START"	Less than 1
			When turning ignition switch to "OFF"	Less than 1
7 (F9Q engine only)	Y/G	IGN power supply	When turning ignition switch to "ON"	Battery voltage
			When turning ignition switch to "START"	Battery voltage
			When turning ignition switch to "OFF"	Less than 1
8	Y/R	Alternator	When turning ignition switch to "ON"	Less than 1
			When engine is running	Battery voltage
			When turning ignition switch to "OFF"	Less than 1
9	B	Ground	—	—
10	R/B	Tail lamp	When turning ignition switch to "ON"	0
			When engine is running and turning lighting switch to "OFF" (daytime light operation*)	Battery voltage
			When turning ignition switch to "OFF"	0
11	W/R	Lighting switch	When turning lighting switch to 1ST or 2ND	Battery voltage
			When turning ignition switch to "OFF"	0

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

Trouble Diagnoses

EKS009M2

Symptom	Possible cause	Repair order
LH headlamps do not operate.	1. Bulb 2. Grounds E10 and E58 3. 15A fuse 4. Lighting switch	1. Check bulb. 2. Check grounds E10 and E58. 3. Check 15A fuse (No. 41, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 8 (R/W) of lighting switch. 4. Check lighting switch.
RH headlamps do not operate.	1. Bulb 2. Grounds E10 and E58 3. 15A fuse 4. Lighting switch	1. Check bulb. 2. Check grounds E10 and E58. 3. Check 15A fuse (No. 42, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 5 (R) of lighting switch. 4. Check lighting switch.

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

Symptom	Possible cause	Repair order	
LH low beam does not operate, but LH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH low beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 9 (BR/R) and LH headlamp terminal 4 (BR/R) for an open circuit. 3. Check lighting switch. 	A B
LH high beam does not operate, but LH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH high beam circuit 3. Daytime light relay 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check the following for an open circuit. <ul style="list-style-type: none"> – Continuity between lighting switch terminal 10 (R/Y) and daytime light relay terminal 5 (R/Y) – Continuity between daytime light relay terminal 3 (R/Y) and headlamp LH terminal 5 (R/Y) 3. Check daytime light relay 4. Check lighting switch. 	C D E
RH low beam does not operate, but RH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH low beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 6 (Y) and RH headlamp terminal 4 (Y) for an open circuit. 3. Check lighting switch. 	F G
RH high beam does not operate, but RH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH high beam circuit 3. Daytime light relay 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check the following for an open circuit. <ul style="list-style-type: none"> – Continuity between lighting switch terminal 7 (PU) and daytime light relay terminal 7 (PU) – Continuity between daytime light relay terminal 6 (PU) and headlamp RH terminal 6 (PU) 3. Check daytime light relay 4. Check lighting switch. 	H I J
High beam indicator does not work.	<ol style="list-style-type: none"> 1. Bulb 2. Grounds M16, M50 and M70 3. Open in high beam circuit 	<ol style="list-style-type: none"> 1. Check bulb in combination meter. 2. Check grounds M16, M50 and M70. 3. Check continuity between lighting switch terminal 9 (BR/R) and combination meter terminal 20 (BR/R) for an open circuit. 	LT L
LH and RH low beam does not operate.	<ol style="list-style-type: none"> 1. Daytime light relay 2. Lighting switch 	<ol style="list-style-type: none"> 1. Check daytime light relay. 2. Check lighting switch. 	M

HEADLAMP (WITH DAYTIME) - CONVENTIONAL TYPE -

Symptom	Possible cause	Repair order
LH low beam does not operate (with daytime operation) but LH low beam operates (with lighting switch 2nd position).	1. 15A fuse 2. Daytime light circuit 3. Daytime light control unit	1. Check 15A fuse (No. 41, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 2 (R/W) of daytime light control unit. 2. Check continuity between daytime light control unit terminal 5 (R/Y) and headlamp LH terminal 5 (R/Y). 3. Check daytime light unit. Refer to LT-24 .
RH low beam does not operate (with daytime operation) but RH low beam operates (with lighting switch 2nd position).	1. 15A fuse 2. Daytime light circuit 3. Daytime light control unit	1. Check 15A fuse (No. 42, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 3 (R) of daytime light control unit. 2. Check continuity between daytime light control unit terminal 4 (PU) and headlamp RH terminal 5 (PU). 3. Check daytime light unit. Refer to LT-24 .

Aiming Adjustment

EKS009M3

Refer to [LT-7, "Aiming Adjustment"](#).

Bulb Replacement HEADLAMP

EKS009M4

Refer to [LT-9, "Bulb Replacement"](#).

CLEARANCE LAMP, FRONT TURN SIGNAL LAMP

Refer to [LT-9, "CLEARANCE LAMP, FRONT TURN SIGNAL LAMP"](#).

HEADLAMP (WITH DAYTIME) - XENON TYPE -

PFP:26010

System Description

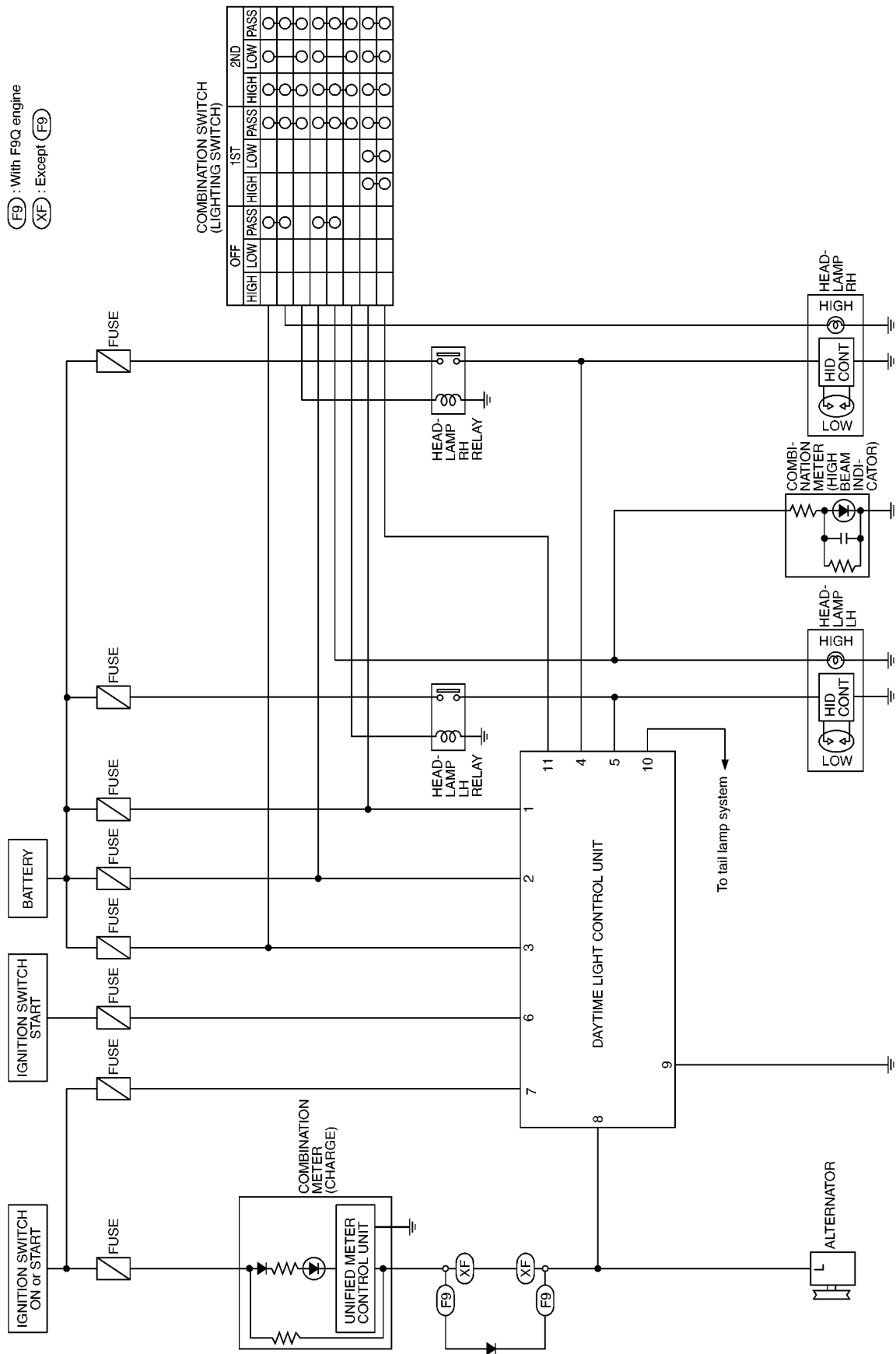
EKS009M5

For headlamp operation, refer to [LT-10, "System Description"](#) .
For daytime operation, refer to [LT-18, "System Description"](#) .

- A
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- LT
- L
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Schematic

EKS009M6



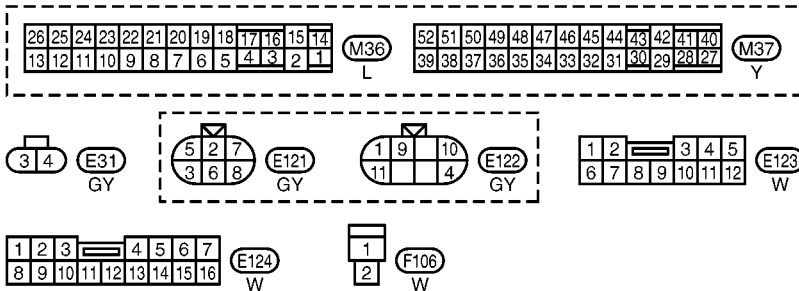
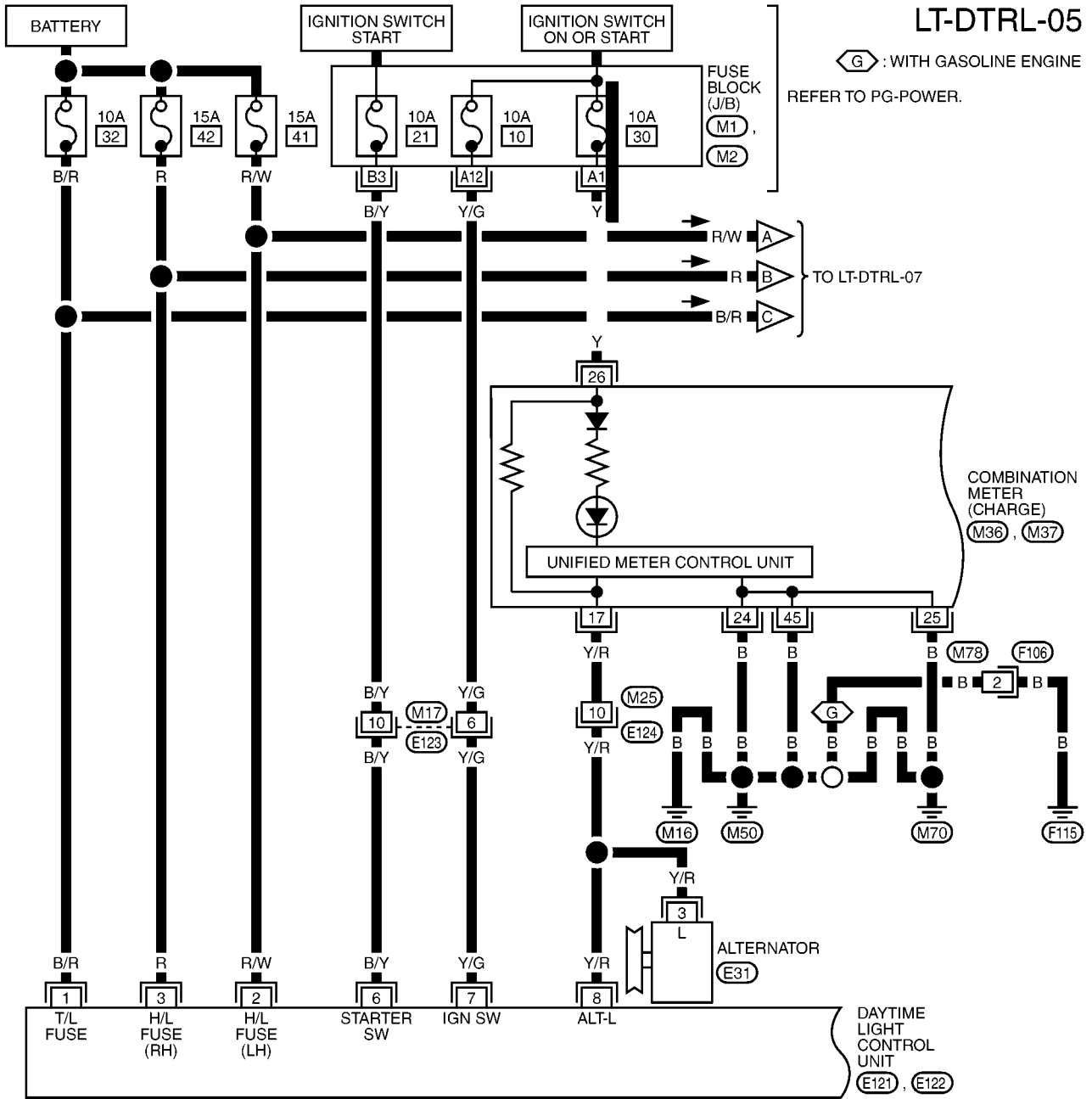
MKWA1093E

HEADLAMP (WITH DAYTIME) - XENON TYPE -

Wiring Diagram - DTRL - EXCEPT FOR F9Q ENGINE MODELS

EKS009M7

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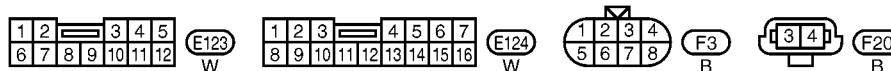
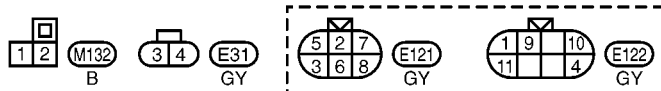
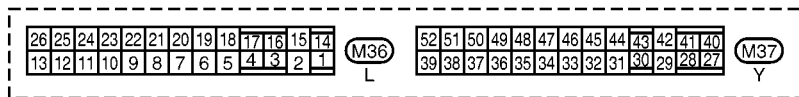
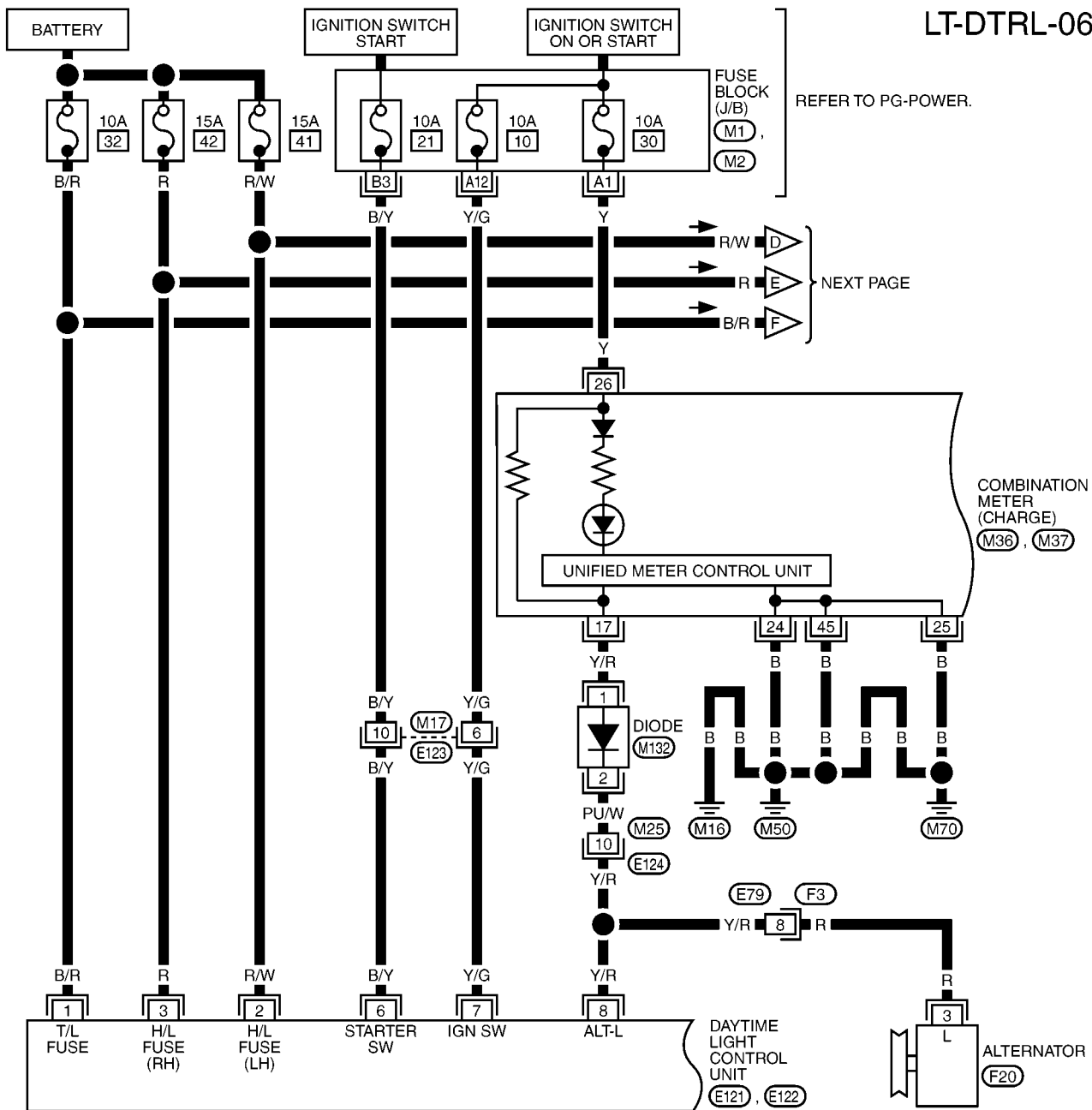


MKWA1094E

HEADLAMP (WITH DAYTIME) - XENON TYPE -

FOR F9Q ENGINE MODELS

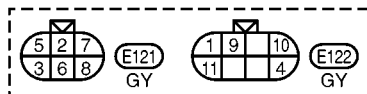
LT-DTRL-06



REFER TO THE FOLLOWING.

(M1), (M2) - FUSE BLOCK-
JUNCTION BOX (J/B)

A
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LT
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M



HEADLAMP (WITH DAYTIME) - XENON TYPE -

FOR ALL ENGINE MODELS

YF : WITH YD22DDTi, F9Q ENGINE

$\text{XY} : \text{EXCEPT } \text{YF}$

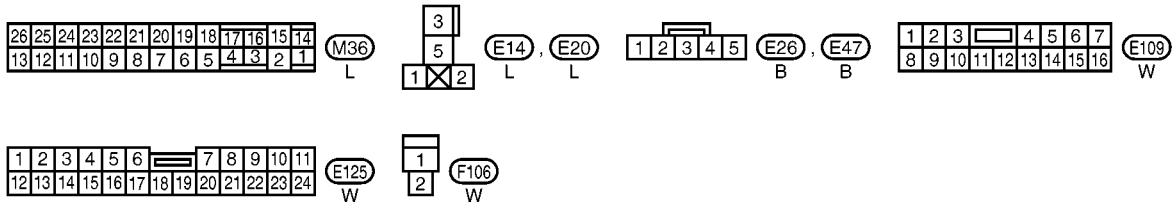
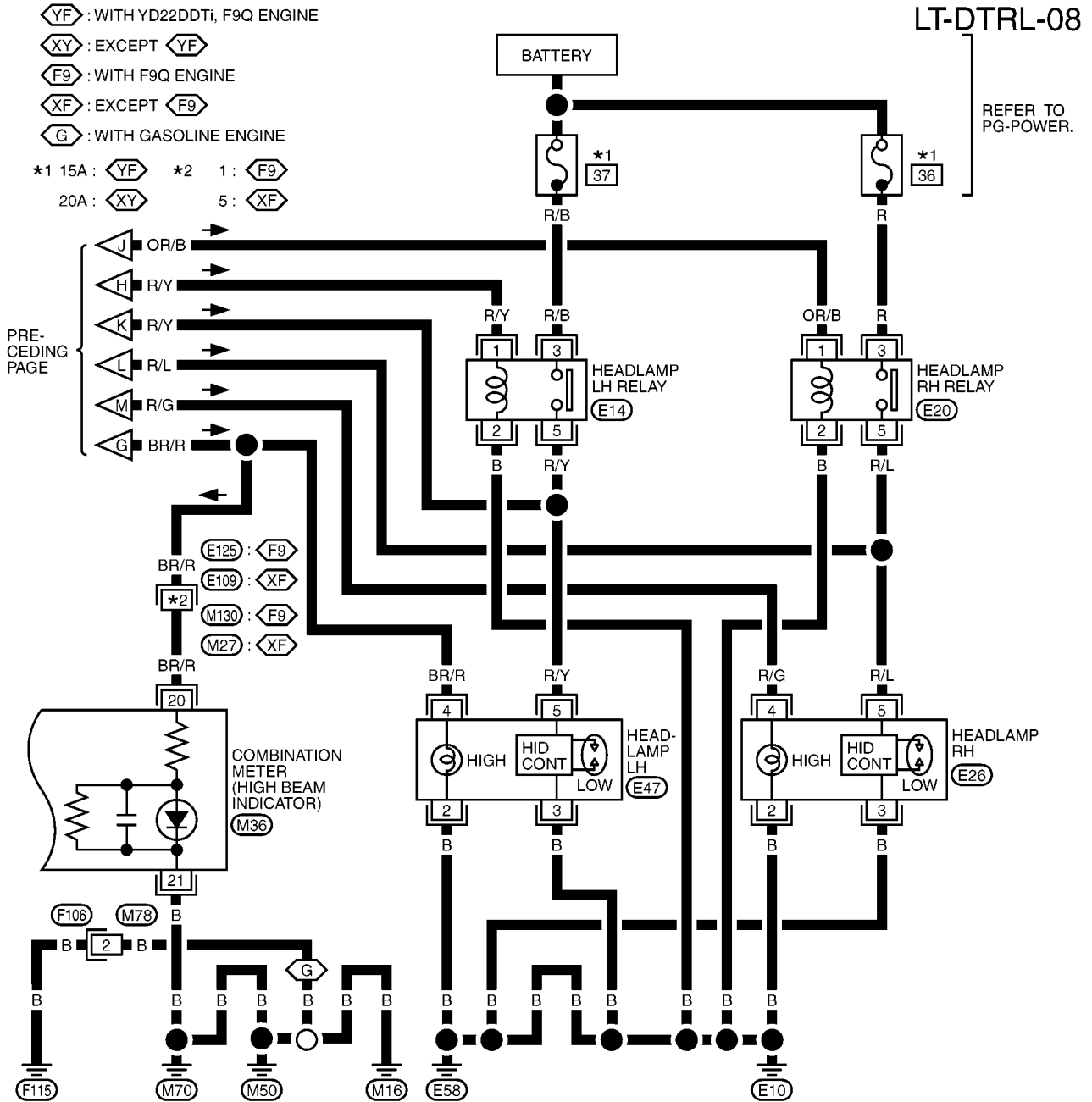
F9 : WITH F9Q ENGINE

XF : EXCEPT **F9**

 : WITH GASOLINE ENGINE

*1 15A :  *2 1 : 

20A : 5 :



HEADLAMP (WITH DAYTIME) - XENON TYPE -

Terminal and Reference Value for Daytime Light Control Unit

EKS009M8

Refer to [LT-24, "Terminal and Reference Value for Daytime Light Control Unit"](#).

Trouble Diagnoses

EKS009M9

DAYTIME LIGHT UNIT INSPECTION TABLE

Symptom	Possible cause	Repair order
LH low beam does not operate, but LH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH low beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 9 (BR/R) and LH headlamp terminal 4 (BR/R) for an open circuit. 3. Check lighting switch.
LH high beam does not operate, but LH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in LH high beam circuit 3. Headlamp LH relay 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check 15A fuse (No. 37, located in fuse and fusible link box) Verify battle positive voltage present at terminal 5 (R/Y) of headlamp LH 3. Check the following for an open circuit. <ul style="list-style-type: none"> – Continuity between headlamp LH relay terminal 5 (R/Y) and headlamp LH terminal 5 (R/Y) – Continuity between daytime light control unit terminal 5 (R/Y) and headlamp LH terminal 5 (R/Y) 4. Check headlamp LH relay 5. Check lighting switch.
RH low beam does not operate, but RH high beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH low beams circuit 3. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check continuity between lighting switch terminal 6 (R/G) and RH headlamp terminal 4 (R/G) for an open circuit. 3. Check lighting switch.
RH high beam does not operate, but RH low beam operates.	<ol style="list-style-type: none"> 1. Bulb 2. Open in RH high beam circuit 3. Headlamp RH relay 4. Lighting switch 	<ol style="list-style-type: none"> 1. Check bulb. 2. Check 15A fuse (No. 36, located in fuse and fusible link box) Verify battle positive voltage present at terminal 5 (R/Y) of headlamp RH 3. Check the following for an open circuit. <ul style="list-style-type: none"> – Continuity between headlamp RH relay terminal 5 (R/L) and headlamp RH terminal 5 (R/L) – Continuity between daytime light control unit terminal 4 (R/L) and headlamp LH terminal 5 (R/L) 4. Check headlamp relay RH 5. Check lighting switch.
High beam indicator does not work.	<ol style="list-style-type: none"> 1. Bulb 2. Grounds M16, M50 and M70 3. Open in high beam circuit 	<ol style="list-style-type: none"> 1. Check bulb in combination meter. 2. Check grounds M16, M50 and M70. 3. Check continuity between lighting switch terminal 9 (BR/R) and combination meter terminal 20 (BR/R) for an open circuit.

HEADLAMP (WITH DAYTIME) - XENON TYPE -

Symptom	Possible cause	Repair order
LH low beam does not operate (with daytime operation) but LH low beam operates (with lighting switch 2nd position).	<ol style="list-style-type: none"> 1. 15A fuse 2. Daytime light circuit 3. Daytime light control unit 	<ol style="list-style-type: none"> 1. Check 15A fuse (No. 41, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 2 (R/W) of daytime light control unit. 2. Check continuity between daytime light control unit terminal 5 (R/Y) and headlamp LH terminal 5 (R/Y). 3. Check daytime light unit. Refer to LT-24.
RH low beam does not operate (with daytime operation) but RH low beam operates (with lighting switch 2nd position).	<ol style="list-style-type: none"> 1. 15A fuse 2. Daytime light circuit 3. Daytime light control unit 	<ol style="list-style-type: none"> 1. Check 15A fuse (No. 42, located in fuse and fusible link box). Verify battery positive voltage is present at terminal 3 (R) of daytime light control unit. 2. Check continuity between daytime light control unit terminal 4 (R/L) and headlamp RH terminal 5 (R/L). 3. Check daytime light unit. Refer to LT-24.

Bulb Replacement

EKS009MA

Refer to [LT-16, "Bulb Replacement"](#).

Aiming Adjustment

EKS009MB

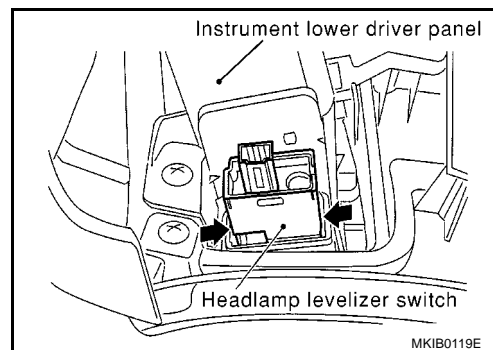
Refer to [LT-15, "Aiming Adjustment"](#).

HEADLAMP AIMING CONTROL (MANUAL)

Removal and Installation

EKS009MD

1. Remove the Instrument lower driver panel. Refer to IP section in P12 ESM (SM2E00-1P12E0E) .
2. Press the headlamp aiming switch fixing tabs and remove the unit from the instrument lower driver panel.



Switch Circuit Inspection

EKS009ME

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

HEADLAMP AIMING CONTROL (AUTO)

HEADLAMP AIMING CONTROL (AUTO)

PFP:53821

System Description

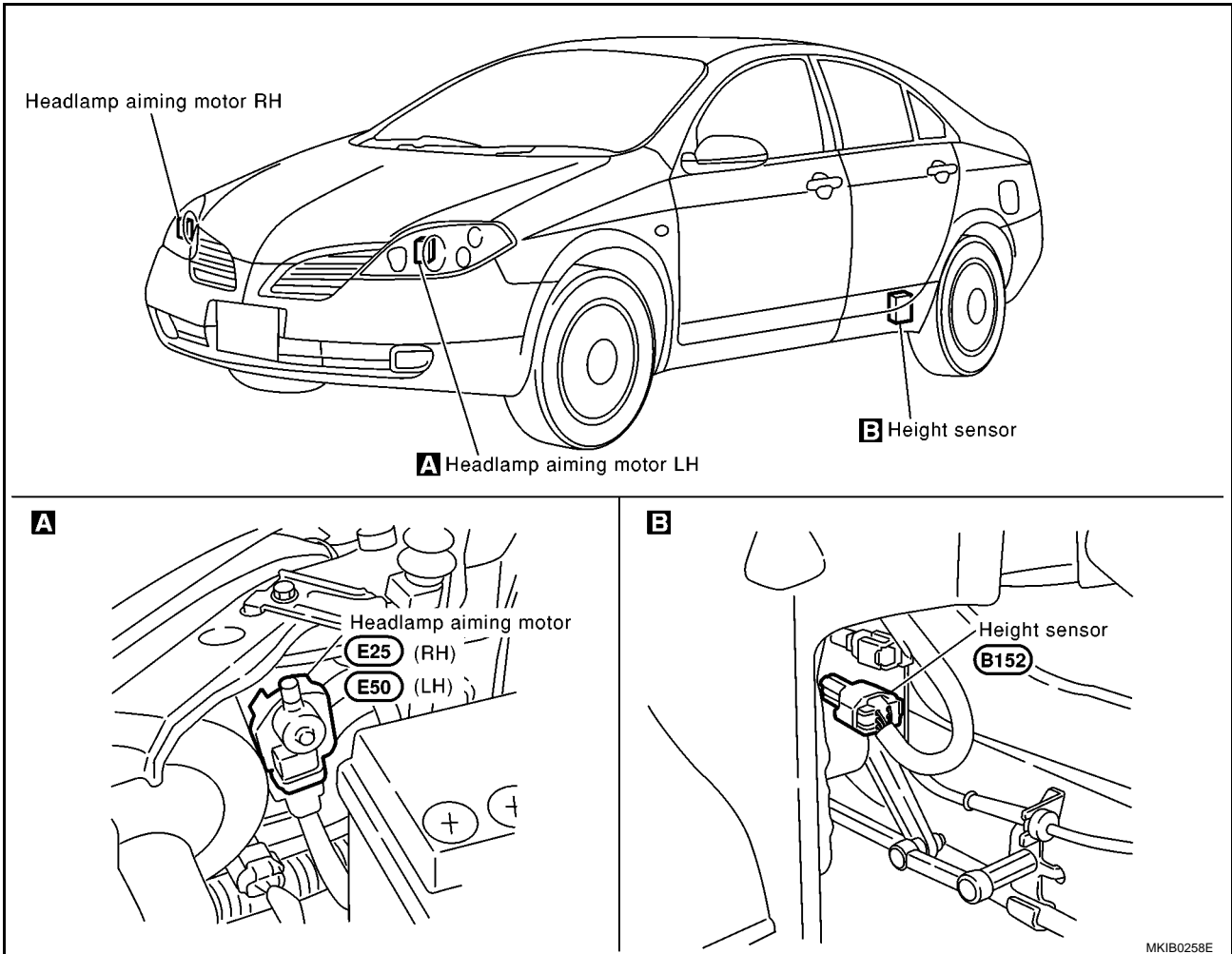
EKS009MF

The height sensor is designed to adjust the beam angle of the headlamp in response to the loading conditions of the vehicle and vehicle speed. It is not designed to compensate for the dynamic handling of the vehicle. The vehicle rear height is measured by height sensor attached to the rear suspension lateral link arm. Height sensor receives vehicle speed signal from combination meter. The height sensor calculates the correct headlamp aiming position and sends a signal to the aiming motors.

Component Parts and Harness

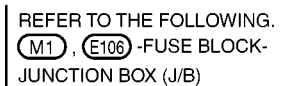
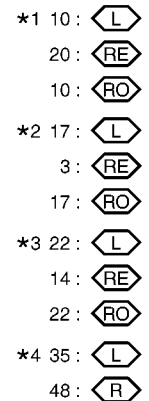
EKS009MG

CONNECTOR LOCATION



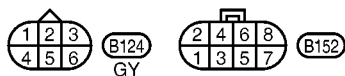
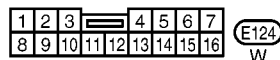
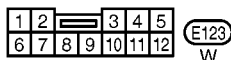
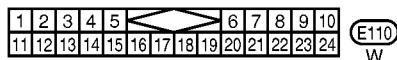
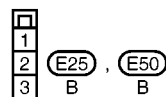
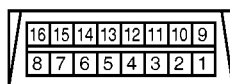
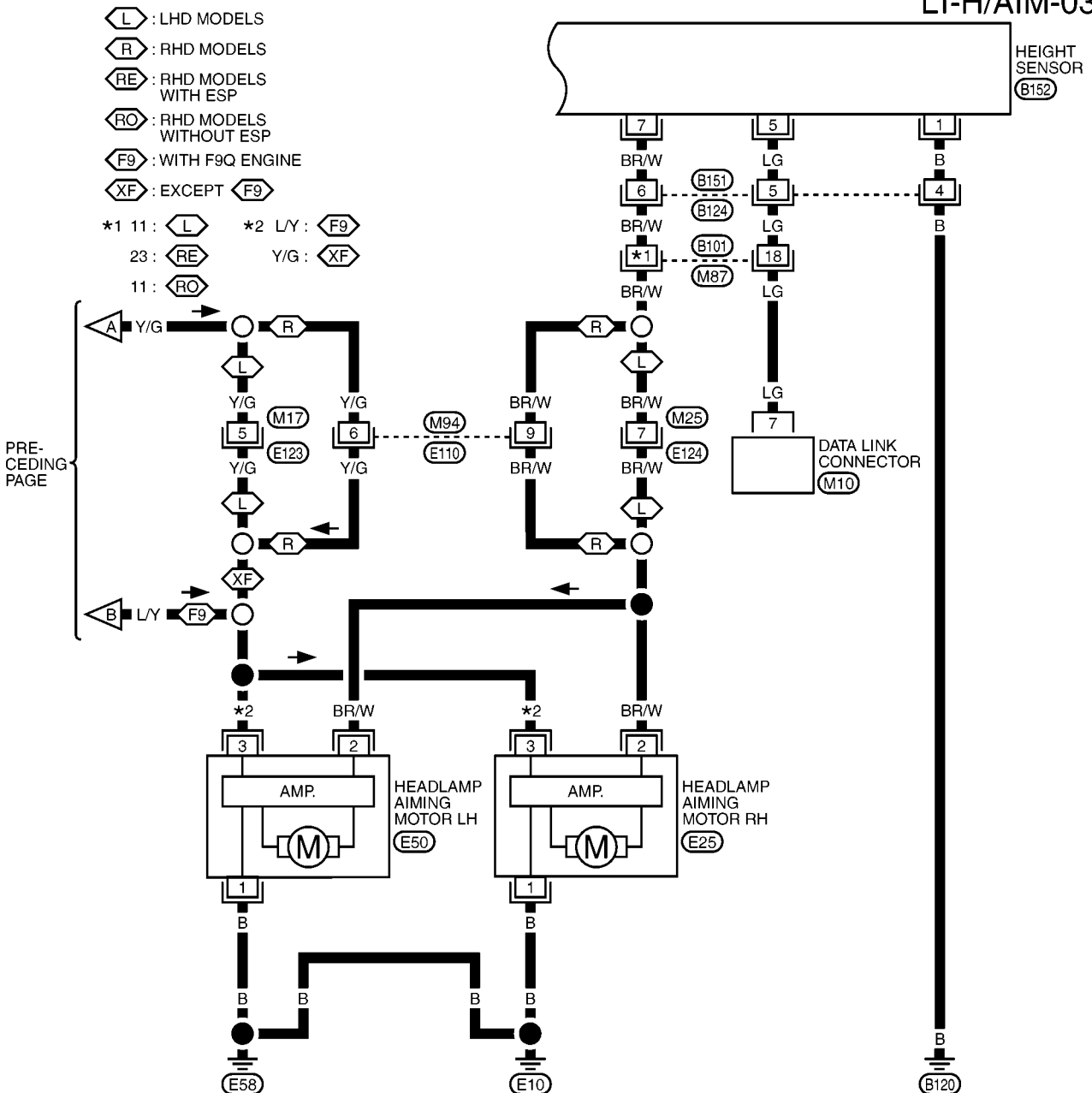
Wiring Diagram - H/AIM -

LT-H/AIM-02



HEADLAMP AIMING CONTROL (AUTO)

LT-H/AIM-03



MKWA1100E

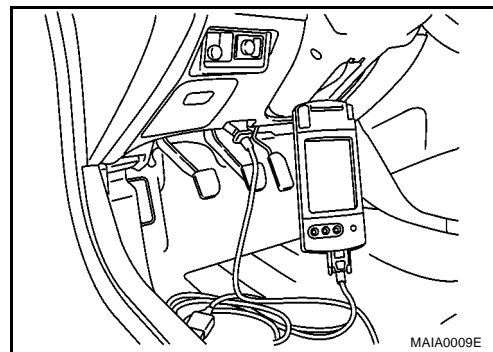
HEADLAMP AIMING CONTROL (AUTO)

CONSULT-II

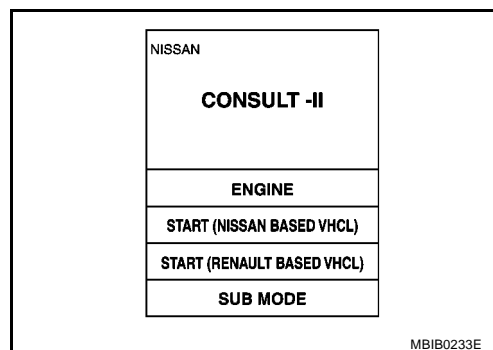
CONSULT-II INSPECTION PROCEDURE

EKS009MI

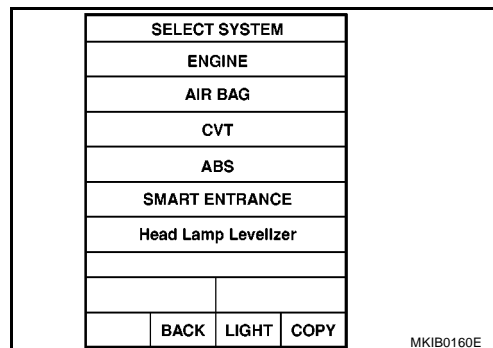
1. Turn ignition switch OFF.
2. Connect CONSULT-II to data link connector.



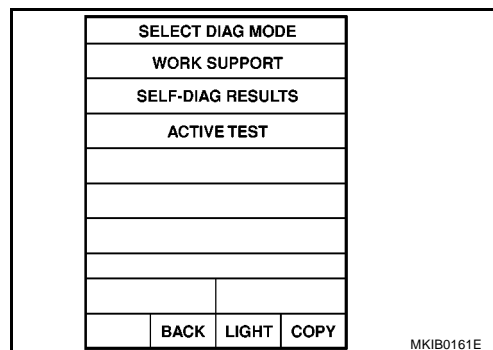
3. Turn ignition switch ON.
4. Touch "START (NISSAN BASED VHCL)".



5. Touch "Headlamp Levelizer".



6. Perform each diagnostic item according to each service procedure.



CONSULT-II DIAGNOSTIC TEST MODE FUNCTION

CONSULT-II DIAGNOSTIC TEST MODE	Description	
WORK SUPPORT	SENSOR INITIALISE	Replacement or adjustment of height sensor are necessary.
	SENSOR CUSTOMIZE	Change the height sensor current setting.

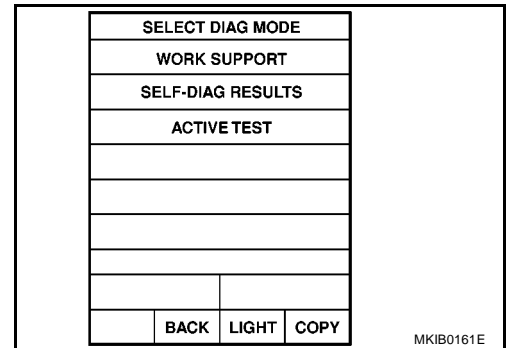
HEADLAMP AIMING CONTROL (AUTO)

CONSULT-II DIAGNOSTIC TEST MODE	Description
SELF-DIAGNOSTIC RESULTS	Detected items (screen terms) are as shown in the LT-41, "SELF-DIAGNOSTIC RESULTS ITEM CHART"
ACTIVE TEST	This test is able to power supply from height sensor to headlamp aiming motor. This system can be operated.

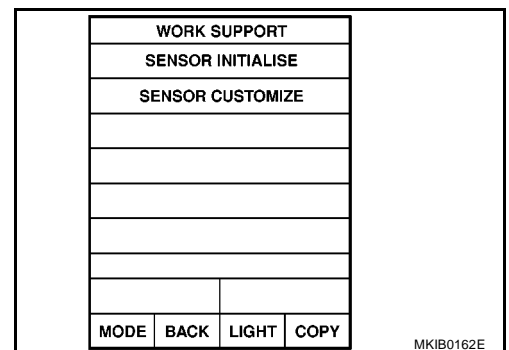
INITIALIZATION

After the replacement or adjustment of height sensor, the system must be calibrated, This is achieved as follows.

1. Touch "WORK SUPPORT".



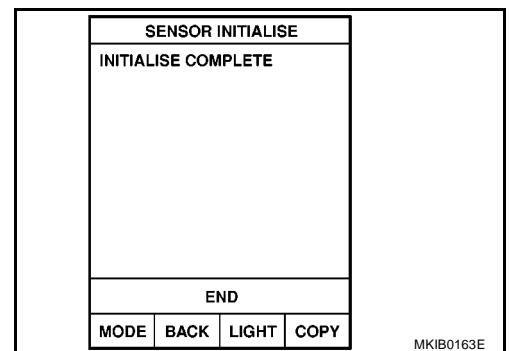
2. Touch "SENSOR INITIALISE".



3. Touch "START".

Confirm that "INITIALISE COMPLETE" is displayed on CONSULT-II, close by touching "END".

After successful calibration the headlamps must then be aimed in the conventional manner [LT-15, "Aiming Adjustment"](#) .



SELF-DIAGNOSTIC RESULTS ITEM CHART

Detected items (Screen terms)	System Condition	Reference item
ECU trouble	Height sensor error	Replace height sensor.
No initialisation	Initialisation not done	Refer to LT-41, "INITIALIZATION" .
Sensor out of range	Sensor left specified range	Replace height sensor.
Sensor not plausible	Sensor signal constant for more than 60s while car is moving.	Replace height sensor.
Supply voltage low	Supply voltage below 9V	Refer to LT-42, "Check Height Sensor Power Supply and Ground Circuit" .
Light signal open line	Open line at low beam switch	Refer to LT-42, "Check Lighting Switch Circuit" .
Speed frequency error	Frequency of speed line over specified limit	Refer to LT-43, "Check Speed Signal Circuit" .

HEADLAMP AIMING CONTROL (AUTO)

Detected items (Screen terms)	System Condition	Reference item
Actuator shorted to ground	Calculated output value differs from measured output value.	Refer to LT-44, "Check Headlamp Aiming Motor" .
Actuator shorted to battery	Calculated output value differs from measured output value.	Refer to LT-44, "Check Headlamp Aiming Motor" .

Check Height Sensor Power Supply and Ground Circuit

EKS009MJ

1. POWER SUPPLY CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Disconnect height sensor connector.
3. Turn ignition switch ON
4. Check voltage between height sensor connector B152 terminal 2 and ground.

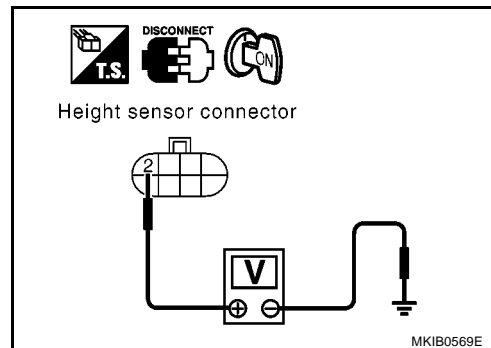
2 (Y/G) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 10A fuse [No. 10, located in fuse block (J/B)]
- 10A fuse [No. 15, located in fuse block (J/B)] (F9Q engine)
- Harness for open or short between height sensor and fuse



2. GROUND CIRCUIT CHECK

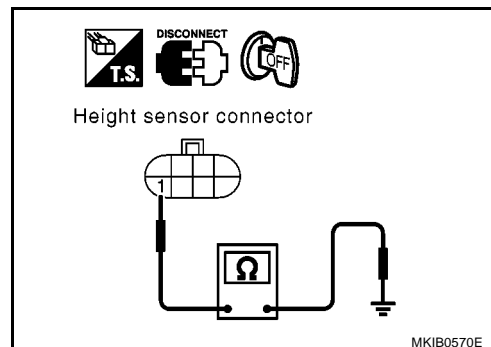
1. Turn ignition switch OFF.
2. Check continuity between height sensor harness connector B152 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

OK or NG

OK >> Height sensor power supply and ground circuit are OK.

NG >> Repair or replace harness.



Check Lighting Switch Circuit

EKS009MK

1. LIGHTING SWITCH INPUT SIGNAL CHECK

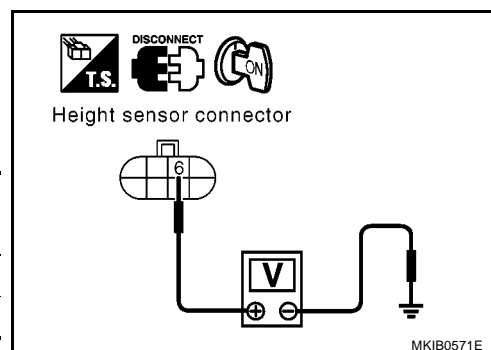
1. Turn ignition switch OFF.
2. Disconnect height sensor connector.
3. Turn ignition switch ON.
4. Check voltage between height sensor harness connector B152 terminal 6 (R/Y) and ground.

Connector	Terminals (wire color)		Lighting switch condition	Voltage (V) (Approx.)
	(+)	(-)		
B152	6 (R/Y)	Ground	2ND position	Battery voltage
			Other than above	0

OK or NG

OK >> Replace height sensor.

NG >> GO TO 2.



HEADLAMP AIMING CONTROL (AUTO)

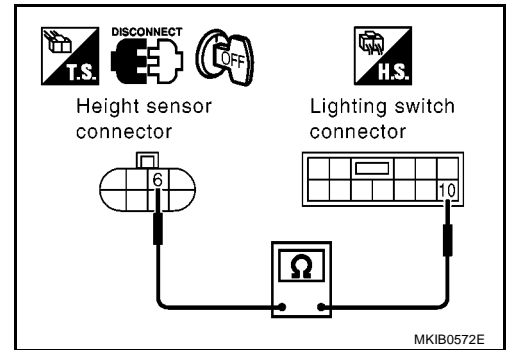
2. LIGHTING SWITCH OPEN CIRCUIT CHECK

1. Disconnect lighting switch connector.
2. Check harness continuity between height sensor harness connector B152 terminal 6 and lighting switch terminal harness connector E115 terminal 10.

6 (R/Y) - 10 (R/Y) : Continuity should exist.

OK or NG

- OK >> Check combination switch [LT-95, "Switch Circuit Inspection"](#).
- NG >> Repair or replace harness.



EKS009ML

Check Speed Signal Circuit

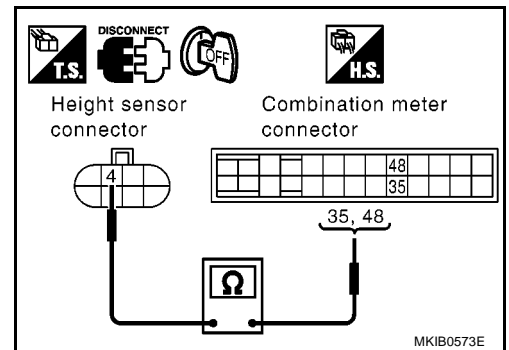
1. SPEED SIGNAL CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Disconnect height sensor and combination meter connector.
3. Check continuity between height sensor harness connector B152 terminal 4 and combination meter harness connector M37 terminal 35 (LHD models) or 48 (RHD models).

35 (SB) or 48 (SB) - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace harness.



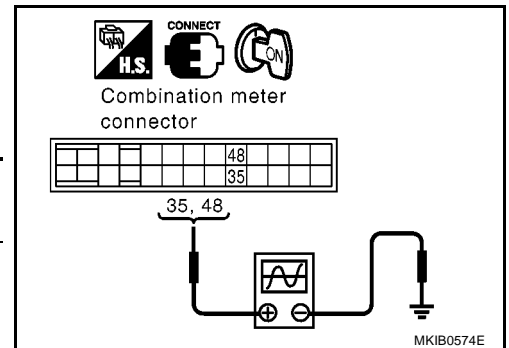
2. SPEED SIGNAL SHORT CIRCUIT CHECK

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Check signal between combination meter harness connector M37 terminal 35 (LHD models) or 48 (RHD models) and ground with oscilloscope.

Connector	Terminals (wire color)		Signal (Reference valve)
	(+)	(-)	
M37	35 (SB) (LHD models) 48 (SB) (RHD models)	Ground	<p>ELF1084D</p>

OK or NG

- OK >> Replace height sensor.
- NG >> Replace combination meter.



HEADLAMP AIMING CONTROL (AUTO)

EKS009MM

Check Headlamp Aiming Motor

1. HEADLAMP AIMING MOTOR CIRCUIT CHECK

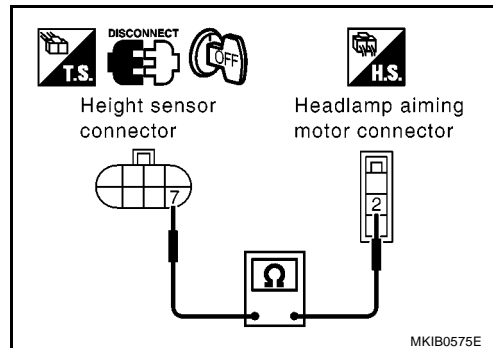
1. Turn ignition switch OFF.
2. Disconnect height sensor and headlamp aiming motor connector.
3. Check continuity between height sensor harness connector B152 terminal 7 and headlamp aiming motor harness connector E25 (RH) or E50 (LH) terminal 2.

7 (BR/W) - 2 (BR/W) : Continuity should exist.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace harness.



2. POWER SUPPLY CIRCUIT CHECK

1. Turn ignition switch ON.
2. Check voltage between headlamp aiming motor harness connector E25 (RH) or E50 (LH) terminal 3 and ground.

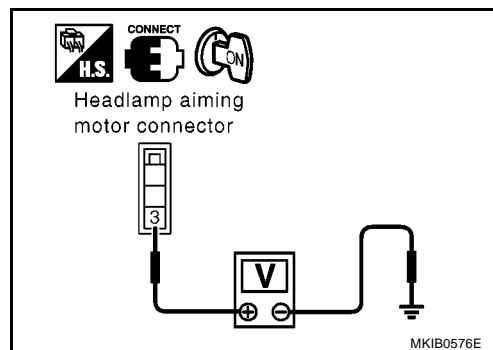
3 (L/Y or Y/G) - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Check the following.

- 10A fuse [No. 10, located in fuse block (J/B)]
- 10A fuse [No. 15, located in fuse block (J/B)] (F9Q engine)
- Harness for open or short between headlamp aiming motor and fuse



3. GROUND CIRCUIT CHECK

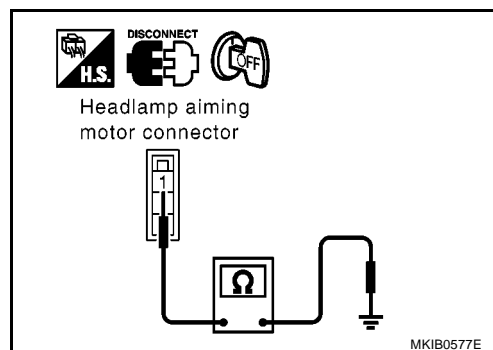
1. Turn ignition switch OFF.
2. Check continuity between headlamp aiming motor harness connector E25 (RH) or E50 (LH) terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

OK or NG

OK >> Replace the headlamp aiming motor.

NG >> Repair or replace harness.

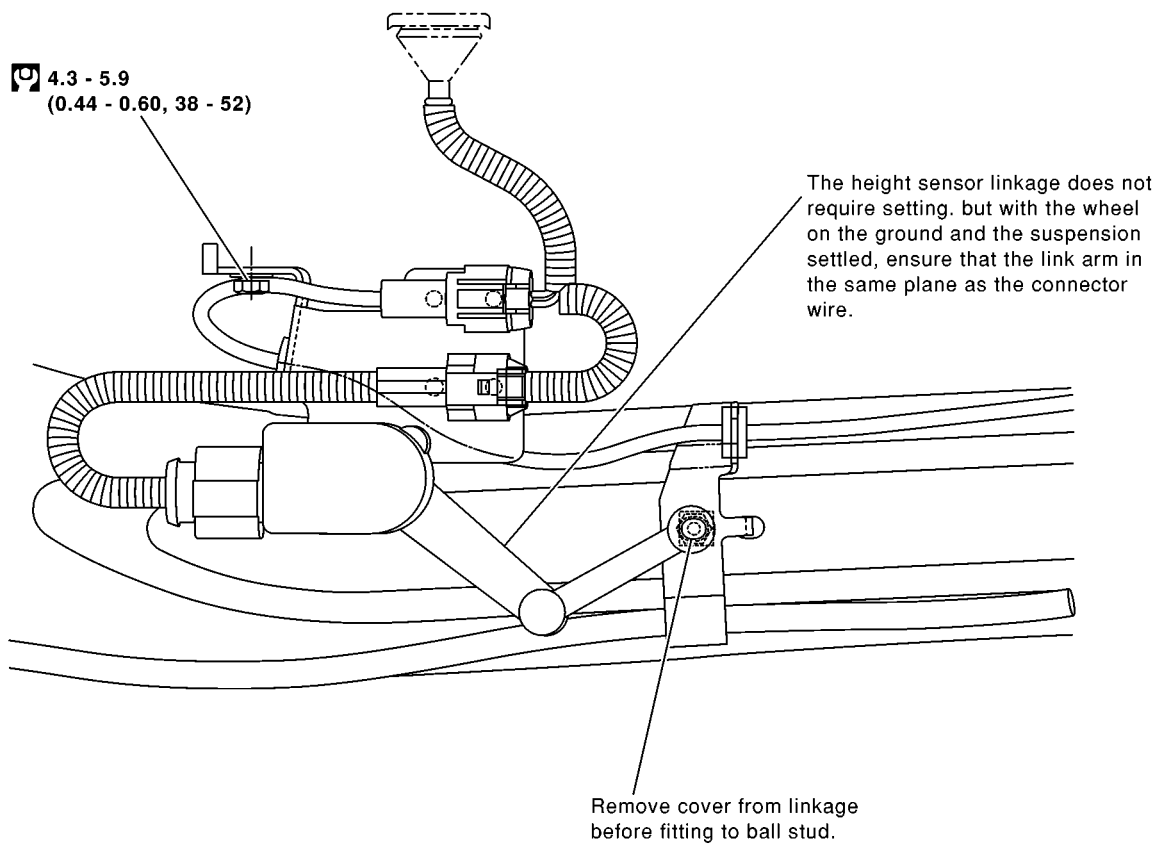


HEADLAMP AIMING CONTROL (AUTO)

Removal and installation

EKS009MN

Hight sensor



: N·m (kg-m, ft-lb)

MKIB0257E

LT

L

M

TURN SIGNAL AND HAZARD WARNING LAMPS

PFP:26120

System Description

EKS009MO

The turn signal and hazard warning lamps operation is controlled by the lighting switch which is built into the combination switch and smart entrance control unit.

Power is supplied at all time

- to smart entrance control unit terminal 56
- to flasher sounder terminal 1
- to combination meter terminal 52 (LHD models) or 39 (RHD models)
- through 10A fuse [No. 12, located in the fuse block (J/B)].

TURN SIGNAL OPERATION

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

- to smart entrance control unit terminal 29
- through 10A fuse [No. 10, located in the fuse block (J/B)], and
- to combination meter terminal 51 (LHD models) or 38 (RHD models)
- through 10A fuse [No. 30, located in the fuse block (J/B)].

LH Turn

When the turn signal switch is moved to the LH position, ground is supplied

- to smart entrance control unit terminal 25 from turn signal switch terminal 3
- through turn signal switch terminal 1
- through body grounds E10 and E58.

Power is supplied from smart entrance control unit terminal 64

- to front combination lamp (turn signal) LH terminal 1,
- to side turn signal lamp LH terminal 1,
- to rear combination lamp LH (turn signal) terminal 5 (for sedan models).
- to rear combination lamp LH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp LH (turn signal) terminal 3 (for hatchback models).

Ground is supplied to the front combination lamp (turn signal) LH terminal 2 through body grounds E10 and E58.

Ground is supplied to the side turn signal lamp LH terminal 2 through body grounds E10 and E58.

Ground is supplied to the rear combination lamp (turn signal) LH terminal 4 through body grounds B17 and B24 (for sedan models).

Ground is supplied to the rear combination lamp (turn signal) LH terminal 4 through body grounds B17, B24 and D94 (for wagon models).

Ground is supplied to the rear combination lamp (turn signal) LH terminal 5 through body grounds B17, B24 and B55 (for hatchback models).

With power and ground supplied, the smart entrance control unit controls the flashing of the LH turn signal lamps, and smart entrance control unit sent LH turn signal to combination meter with CAN communication line. Turn signal LH is flushing of combination meter.

RH Turn

When the turn signal switch is moved to the RH position, ground is supplied

- to smart entrance control unit terminal 26 from turn signal switch terminal 2
- through turn signal switch terminal 1 and
- through body grounds E10 and E58.

Power is supplied from smart entrance control unit terminal 63

- to front combination lamp RH (turn signal) terminal 1,
- to side turn signal lamp RH terminal 1,
- to rear combination lamp RH (turn signal) terminal 2 (for sedan models).
- to rear combination lamp RH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp RH (turn signal) terminal 4 (for hatchback models).

TURN SIGNAL AND HAZARD WARNING LAMPS

Ground is supplied to the front combination lamp RH (turn signal) terminal 2 through body grounds E10 and E58.

Ground is supplied to the side turn signal lamp RH terminal 2 through body grounds E10 and E58.

Ground is supplied to the rear combination lamp RH terminal 3 through body grounds B17 and B24 (for sedan models).

Ground is supplied to the rear combination lamp RH terminal 4 through body grounds B17, B24 and D94 (for wagon models).

Ground is supplied to the rear combination lamp RH terminal 2 through body grounds B17, B24 and B55. (for hatch back models)

With power and ground supplied, the smart entrance control unit controls the flashing of the RH turn signal lamps, and smart entrance control unit sent RH turn signal to combination meter with CAN communication line.

Turn signal RH is flushing of combination meter.

HAZARD LAMP OPERATION

When the hazard switch in the ON position

Ground supplied

- to smart entrance control unit terminal 30 from hazard switch terminal 1
- through hazard switch terminal 3
- through body grounds M16, M50 and M70.

Power is supplied from smart entrance control unit terminal 64

- to front combination lamp LH (turn signal) terminal 1,
- to side turn signal lamp LH terminal 1,
- to rear combination lamp LH (turn signal) terminal 5 (for sedan models).
- to rear combination lamp LH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp LH (turn signal) terminal 3 (for hatchback models).

Power is supplied from smart entrance control unit terminal 63

- to front combination lamp RH (turn signal) terminal 1,
- to side turn signal lamp RH terminal 1,
- to rear combination lamp RH (turn signal) terminal 2 (for sedan models).
- to rear combination lamp RH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp RH (turn signal) terminal 4 (for hatchback models).

Ground is supplied to terminal 2 each front combination lamp (turn signal) through body grounds E10 and E58.

Ground is supplied to terminal 2 each side turn signal lamp through body grounds E10 and E58.

Ground is supplied to terminal 3 (RH) or 4 (LH) of rear combination lamp through body grounds B17 and B24 (for sedan models).

Ground is supplied to terminal 4 each rear combination lamp through body grounds B17, B24 and D94 (for wagon models).

Ground is supplied to terminal 5 (LH) or 2 (RH) of rear combination lamp through body grounds B17, B24 and B55 (for hatchback models).

With power and ground supplied, the smart entrance control unit controls the flashing of the hazard warning lamps, and smart entrance control unit sent hazard warning signal to combination meter with CAN communication line.

TURN SIGNAL (HAZARD) SOUND OPERATION

When turn signal (hazard) is operated, ground is supplied

- thorough flasher sounder terminal 3.
- to smart entrance control unit terminal 12

Turn signal (hazard) is triggered when the signal is followed as a moment (850 μ S). Then turn signal (hazard) sound will be sounded.

TURN SIGNAL AND HAZARD WARNING LAMPS

MULTI-REMOTE CONTROL SYSTEM OPERATION

When smart entrance control unit receives LOCK or UNLOCK signal from remote controller with all doors closed, power is supplied

- through smart entrance control unit terminal 64
- to front combination lamp LH (turn signal) terminal 1,
- to side turn signal lamp LH terminal 1,
- to rear combination lamp LH (turn signal) terminal 5 (for sedan models).
- to rear combination lamp LH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp LH (turn signal) terminal 3 (for hatchback models), and
- through smart entrance control unit terminal 63.
- to front combination lamp RH (turn signal) terminal 1,
- to side turn signal lamp RH terminal 1,
- to rear combination lamp RH (turn signal) terminal 2 (for sedan models).
- to rear combination lamp RH (turn signal) terminal 1 (for wagon models).
- to rear combination lamp RH (turn signal) terminal 4 (for hatchback models).

Ground is supplied to terminal 2 each front combination lamp (turn signal) through body grounds E10 and E58.

Ground is supplied to terminal 2 each side turn signal lamp through body grounds E10 and E58.

Ground is supplied to terminal 3 (RH) or 4 (LH) of rear combination lamp through body grounds B17 and B24 (for sedan models).

Ground is supplied to terminal 4 each rear combination lamp through body grounds B17, B24 and D94 (for wagon models).

Ground is supplied to terminal 5 (LH) or 2 (RH) of combination lamp through body grounds B17, B24 and B55 (for hatchback models).

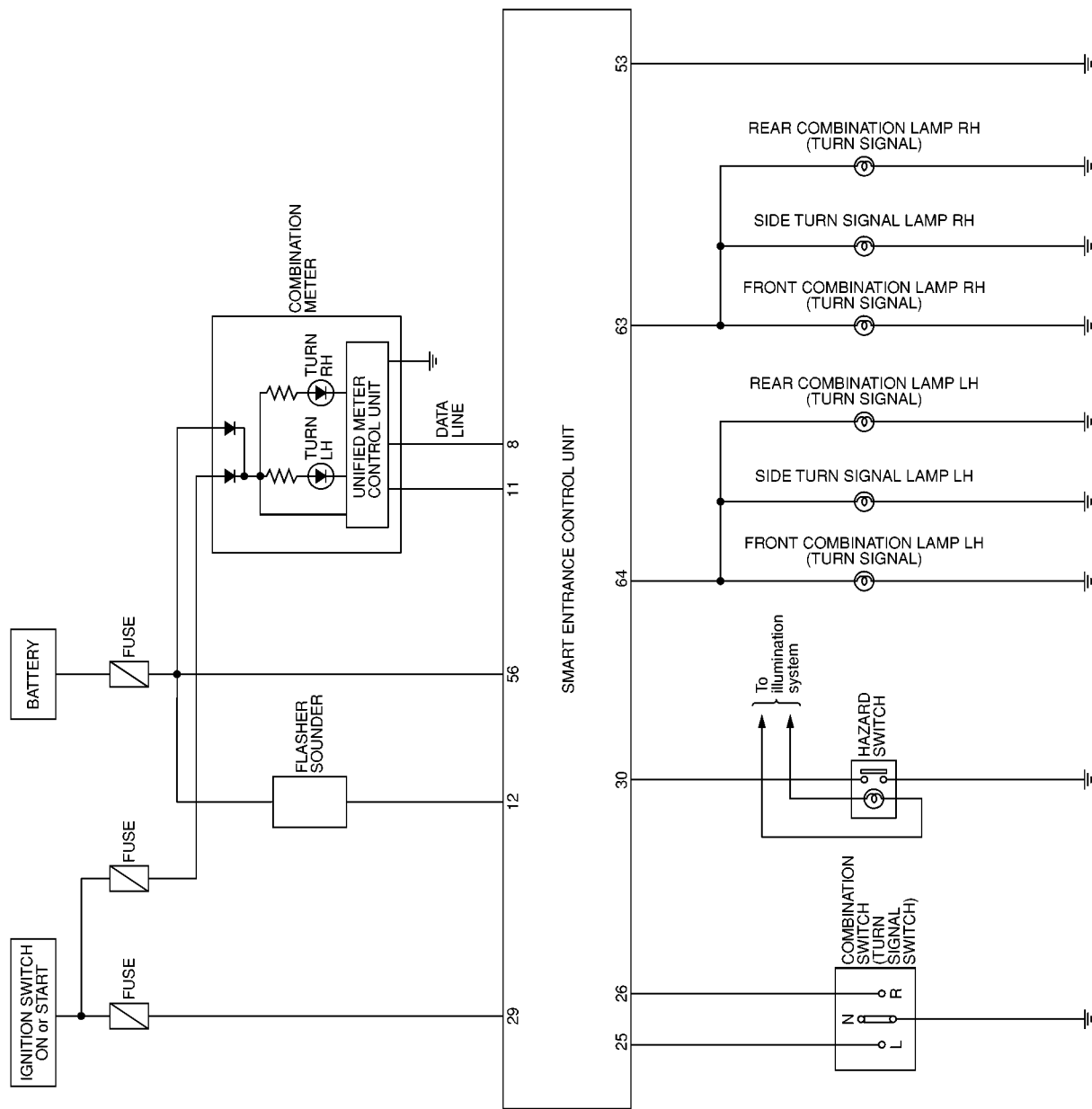
With power and ground supplied, the smart entrance control unit controls the flashing of the hazard warning lamps. and smart entrance control unit sent hazard warning signal to combination meter with CAN communication line. Refer to [LT-134, "CAN COMMUNICATION"](#) .

Turn signal is flushing of combination meter.

TURN SIGNAL AND HAZARD WARNING LAMPS

Schematic

EKS009MP



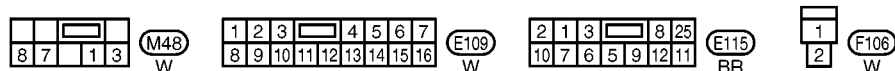
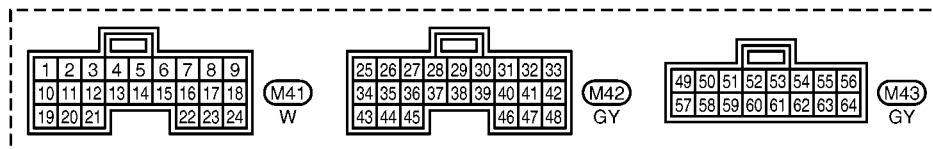
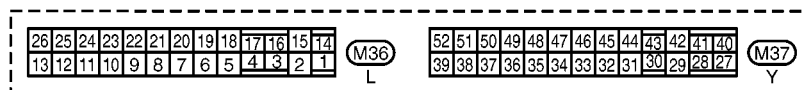
LT

MKWA0781E

EK.S009MQ

[illegible]

**(M1) , (M2) -FUSE BLOCK-
JUNCTION BOX (J/B)**



LT-TURN-02



LT-51

TURN SIGNAL AND HAZARD WARNING LAMPS

LT-TURN-03

(S) : SEDAN

(H) : HATCHBACK

(W) : WAGON

(L) : LHD MODELS

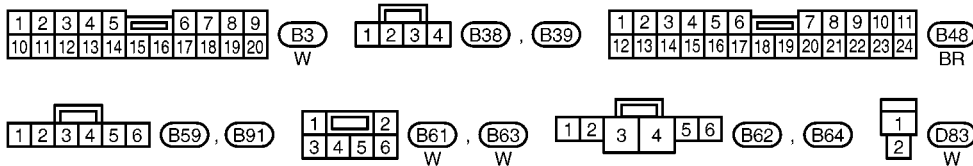
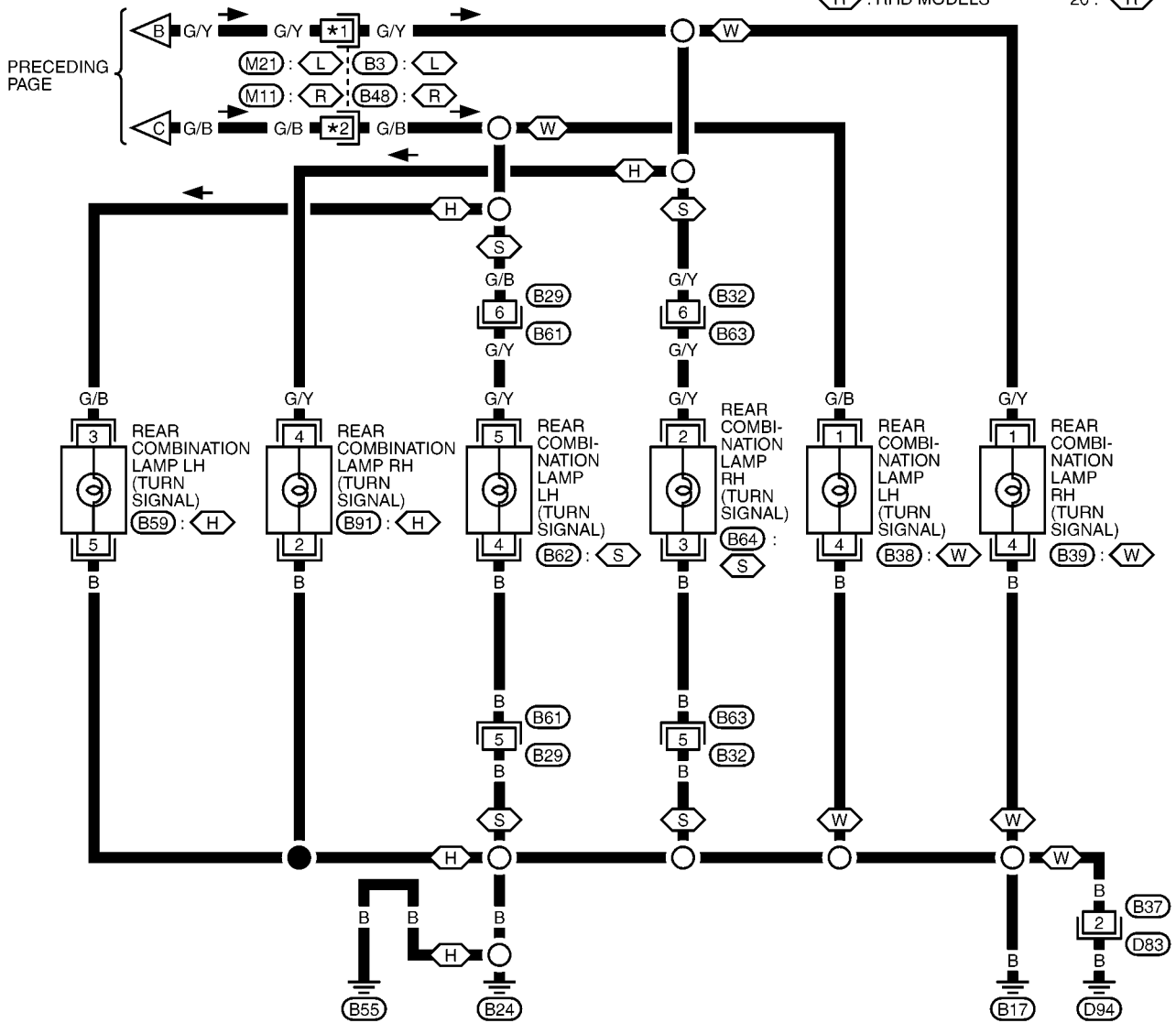
(R) : RHD MODELS

*1 16 : (L)

19 : (R)

*2 17 : (L)

20 : (R)



MKWA1102E

TURN SIGNAL AND HAZARD WARNING LAMPS

Terminal and Reference Valve for Smart Entrance Control Unit

EKS009MR

Terminal No.	Wire color	Connections	Operated condition	Voltage (V) (Approx.)
8	L	CAN-H	—	—
11	R	CAN-L	—	—
12	PU/W	Flasher sounder	Triggered	Battery voltage → 0 → Battery voltage
			Not triggered	Battery voltage
25	G/B	Combination switch (Turn signal switch)	Turn signal switch: Neutral → Left turn position	Battery voltage → 0
26	G/Y	Combination switch (Turn signal switch)	Turn signal switch: Neutral → Right turn position	Battery voltage → 0
29	Y/G	IGN power supply	Ignition switch (ON or START position)	Battery voltage
30	G/R	Hazard switch	Hazard switch: OFF → ON	Battery voltage → 0
53	B	Ground	—	0
56	R/B	BAT power supply	—	Battery voltage
63	G/Y	RH turn output signal	Turn right ON	0 → Battery voltage → 0
64	G/B	LH turn output signal lamp	Turn left ON	0 → Battery voltage → 0

Turn Signal And Hazard Warning Lamp Do Not Operate

EKS009MS

1. CHECK FUSE

- Check 10A fuse [No. 10, located in fuse block (J/B)]
- Check 10A fuse [No. 12, located in fuse block (J/B)]

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of problem before installing new fuse.

2. POWER SUPPLY CIRCUIT CHECK

1. Turn ignition switch ON.
2. Check smart entrance control unit connector and ground.

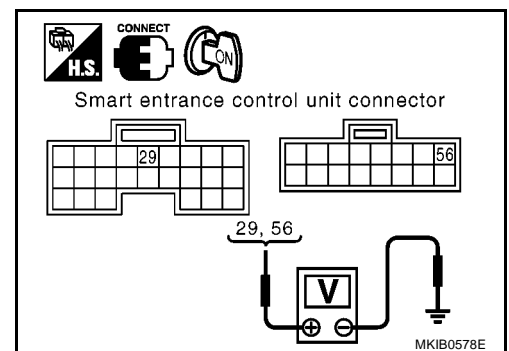
29 (Y/G) - Ground : Battery voltage

56 (R/B) - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

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



TURN SIGNAL AND HAZARD WARNING LAMPS

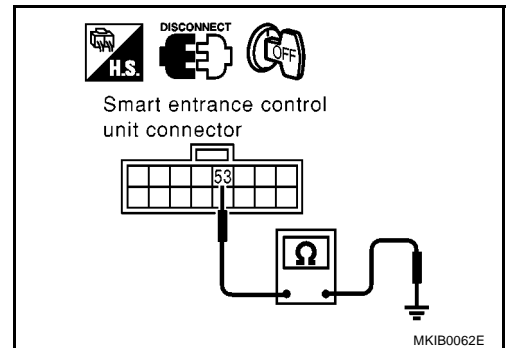
3. GROUND CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Disconnect smart entrance control unit connector.
3. Check continuity between smart entrance control unit harness connector M43 terminal 53 and ground.

53 (B) - Ground : Continuity should exist.

OK or NG

- OK >> Replace smart entrance control unit.
NG >> Repair or replace harness.



Turn Signal Lamps Do Not Operate But Hazard Warning Lamp Operates

EKS009MT

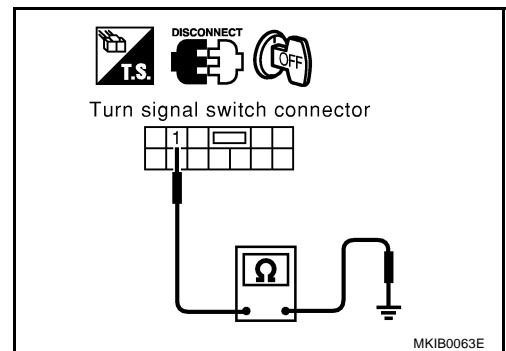
1. TURN SIGNAL SWITCH GROUND CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Disconnect turn signal switch connector.
3. Check continuity between combination switch harness connector E115 terminal 1 and ground.

1 (B) - Ground : Continuity should exist.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace harness.



2. TURN SIGNAL SWITCH CHECK

Check turn signal switch [LT-95, "Switch Circuit Inspection"](#) .

OK or NG

- OK >> Replace smart entrance control unit.
NG >> Harness for open or short between turn signal switch and smart entrance control unit.

TURN SIGNAL AND HAZARD WARNING LAMPS

Hazard Warning Lamps Do Not Operate But Turn Signal Lamp Operate

EKS009MU

1. CHECK HAZARD SWITCH INPUT SIGNAL

WITH CONSULT-II

Check hazard switch in "DATA MONITOR" mode with CONSULT-II.

HAZARD SW

Hazard sw ON : ON

Hazard sw OFF : OFF

DATA MONITOR	
MONITOR	
IGNITION SW	ON
HAZARD SW	OFF
RH TURN SW	OFF
LH TURN SW	OFF
RKE LOCK	OFF
RKE UNLOCK	OFF
RKE SEL UNLOCK	OFF
RECORD	
MODE	BACK
LIGHT	COPY

MKIB0194E

WITHOUT CONSULT-II

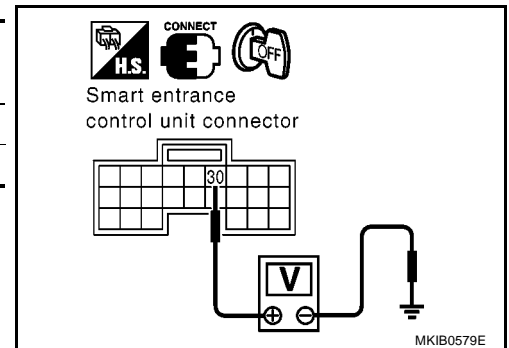
Check battery voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	30 (G/R)	Ground	Hazard SW: ON	0
			Hazard SW: OFF	Battery voltage

OK or NG

OK >> Replace smart entrance control unit.

NG >> GO TO 2.



2. HAZARD SWITCH CHECK

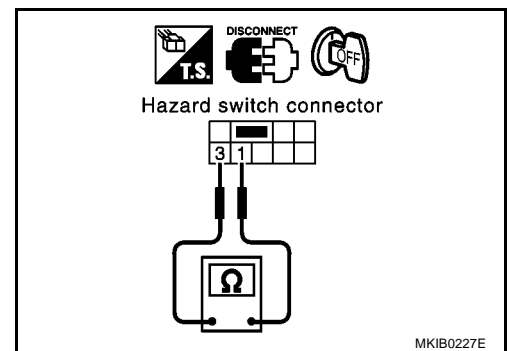
1. Turn ignition switch OFF.
2. Disconnect hazard switch connector.
3. Check continuity between hazard switch terminals 1 and 3.

Terminals		Condition	Continuity
1	3	Hazard SW: ON	ON
		Hazard SW: OFF	OFF

OK or NG

OK >> GO TO 3.

NG >> Replace the hazard switch.



3. GROUND CIRCUIT CHECK

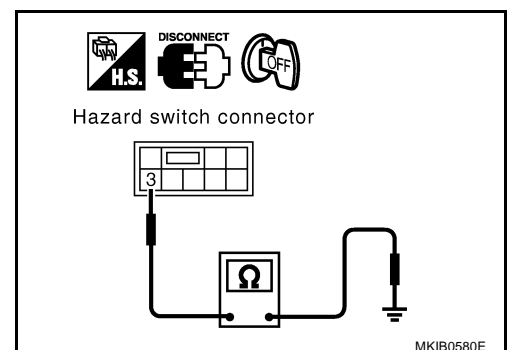
Check continuity between hazard switch harness connector M48 terminal 3 and ground.

3 (B) - Ground : Continuity should exist.

OK or NG

OK >> Harness for open or short between smart entrance control unit and hazard switch.

NG >> Repair or replace harness.



TURN SIGNAL AND HAZARD WARNING LAMPS

Turn Signal Lamp LH Does Not Operate

EKS009MV

1. BULB CHECK

Check turn signal lamp LH bulb.

OK or NG

OK >> GO TO 2.

NG >> Replace bulb.

2. TURN SWITCH LH INPUT SIGNAL CHECK

Check "LH TURN SW" signal in "DATA MONITOR" mode with CONSULT-II.

LH TURN SW

Turn signal switch LH : ON

OK or NG

OK >> Turn signal switch OK.

NG >> GO TO 3.

DATA MONITOR			
MONITOR			
IGNITION SW	ON		
HAZARD SW	OFF		
RH TURN SW	OFF		
LH TURN SW	OFF		
RKE LOCK	OFF		
RKE UNLOCK	OFF		
RKE SEL UNLOCK	OFF		
		RECORD	
MODE	BACK	LIGHT	COPY

MKIB0194E

3. POWER SUPPLY CIRCUIT CHECK

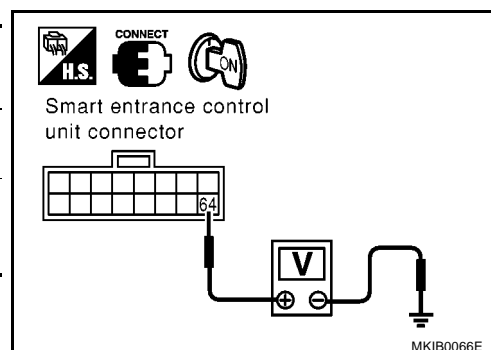
1. Turn signal switch ON.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	64 (G/B)	Ground	Turn signal LH illuminates.	0
			Turn signal LH does not illuminate.	Battery voltage

OK or NG

OK >> GO TO 4.

NG >> Replace the smart entrance control unit.



TURN SIGNAL AND HAZARD WARNING LAMPS

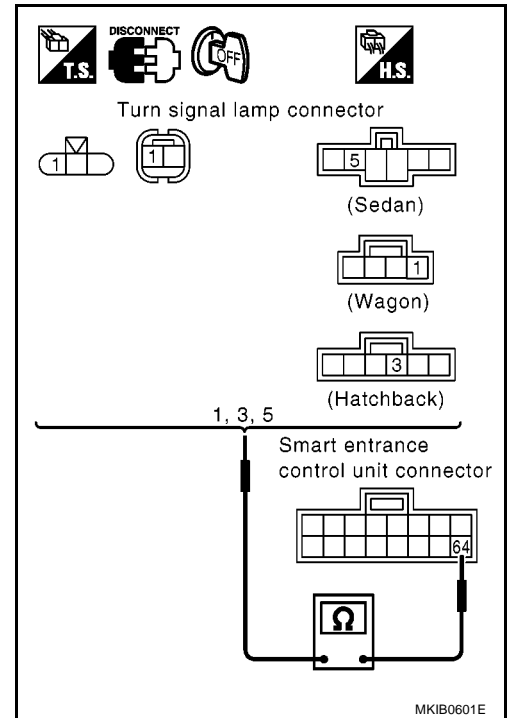
4. TURN SIGNAL LAMP LH CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Disconnect each turn signal lamps LH connector.
3. Check continuity between the following harness connector terminal of the each turn signal lamps LH and smart entrance control unit harness connector M43 terminal 64.

Connector	Terminals (wire color)		Continuity
	(+)	(-)	
E51	1 (G/B)	64 (G/B)	Yes
E59	1 (G/B)		
B38 (Wagon models)	1 (G/B)		
B62 (Sedan models)	5 (G/Y)		
B59 (Hatchback models)	3 (G/B)		

OK or NG

- OK >> Check harness for open or short between smart entrance control unit and each turn signal lamps LH.
- NG >> Repair or replace harness.



Turn Signal Lamp RH Does Not Operate

1. BULB CHECK

Check turn signal lamp RH bulb.

OK or NG

- OK >> GO TO 2.
- NG >> Replace bulb.

2. TURN SWITCH RH INPUT SIGNAL CHECK

Check "RH TURN SW" signal in "DATA MONITOR" mode with CONSULT-II.

RH TURN SW

Turn signal switch RH : ON

OK or NG

- OK >> Turn signal switch OK.
- NG >> GO TO 3.

DATA MONITOR			
MONITOR			
IGNITION SW	ON		
HAZARD SW	OFF		
RH TURN SW	OFF		
LH TURN SW	OFF		
RKE LOCK	OFF		
RKE UNLOCK	OFF		
RKE SEL UNLOCK	OFF		
		RECORD	
MODE	BACK	LIGHT	COPY

MKIB0194E

TURN SIGNAL AND HAZARD WARNING LAMPS

3. POWER SUPPLY CIRCUIT CHECK

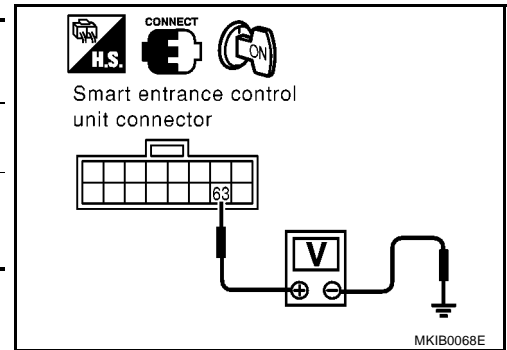
Check voltage between smart entrance control unit harness connector M43 terminal 63 (G/Y) and ground.

Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
	(+)	(-)		
M43	64 (G/B)	Ground	Turn signal RH illuminates.	0
			Turn signal RH does not illuminate.	Battery voltage

OK or NG

OK >> GO TO 4.

NG >> Replace the smart entrance control unit.



4. TURN SIGNAL LAMP RH CIRCUIT CHECK

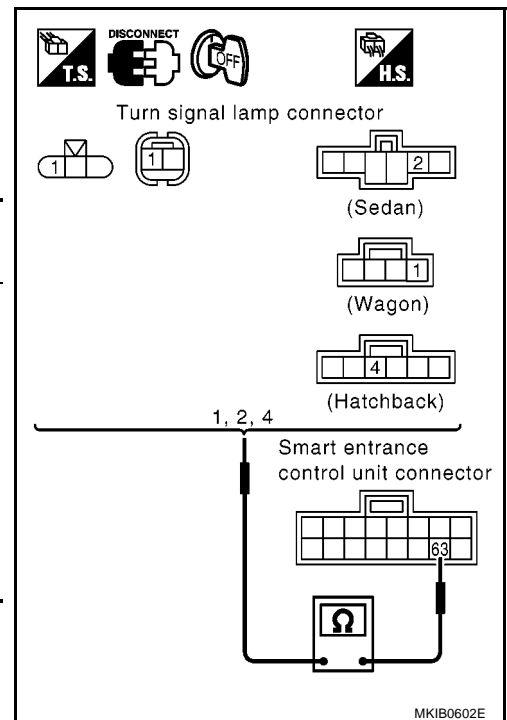
1. Turn ignition switch OFF.
2. Disconnect each turn signal lamp RH connector.
3. Check continuity between the following harness connector terminal of the each turn signal lamp RH and smart entrance control unit harness connector M43 terminal 63.

Connector	Terminals (wire color)		Continuity
	(+)	(-)	
E1	1 (G/Y)	63 (G/Y)	Yes
E24	1 (G/Y)		
B39 (Wagon models)	1 (G/Y)		
B64 (Sedan models)	2 (G/Y)		
B91 (Hatchback models)	4 (G/Y)		

OK or NG

OK >> Check harness for open or short between smart entrance control unit and each turn signal lamps RH.

NG >> Repair or replace harness.



RH and LH Turn Indicators Do Not Operate

1. COMBINATION METER POWER AND GROUND CIRCUIT CHECK

Check combination meter power and ground circuit check.

Refer to [DI-20, "Power Supply and Ground Circuit Check"](#) (LHD) or [DI-43, "Power Supply and Ground Circuit Check"](#) (RHD).

OK or NG

OK >> GO TO 2.

NG >> Replace combination meter.

2. SELF-DIAGNOSIS FOR SMART ENTRANCE CONTROL UNIT

Perform smart entrance control unit self-diagnosis mode.

Refer to [BCS-21, "Trouble Diagnoses"](#).

Does the display of CAN appear?

YES >> Check the CAN communication line. Refer to [BCS-23, "CAN Communication Line Check"](#).

NO >> Replace combination meter.

TURN SIGNAL AND HAZARD WARNING LAMPS

Bulb Replacement FRONT TURN SIGNAL LAMP

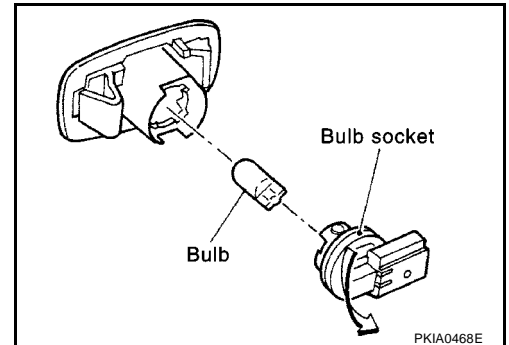
EKS009MY

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

SIDE TURN SIGNAL LAMP

1. Remove 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



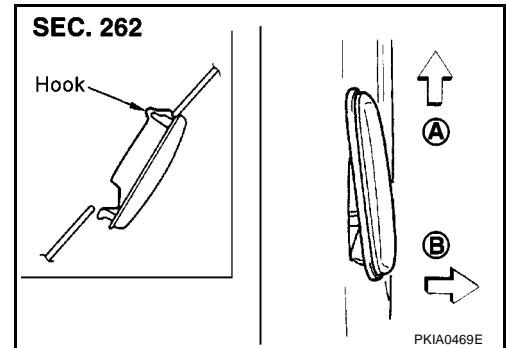
REAR TURN SIGNAL LAMP

Refer to [LT-92, "REAR COMBINATION LAMP"](#).

Removal and Installation for Side Turn Signal Lamp

EKS009MZ

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

EKS009N0

Refer to [LT-92, "REAR COMBINATION LAMP"](#).

LIGHTING AND TURN SIGNAL SWITCH

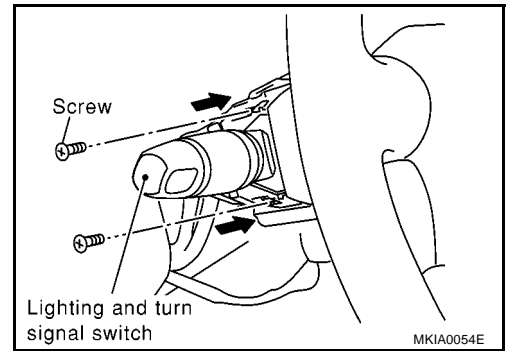
LIGHTING AND TURN SIGNAL SWITCH

PFP:25540

Removal and Installation

EKS009N1

1. Remove the steering column cover. Refer to [PS-9, "STEERING COLUMN"](#).
2. Remove lighting and turn signal switch mounting screw and remove the lighting and turn signal switch from the spiral cable.



3. Disconnect the lighting and turn signal switch connector.

Switch Circuit Inspection

EKS009N2

Using circuit tester, check continuity between the lighting and turn signal switch connector terminals in each operation status of the switch. Refer to [LT-95, "Switch Circuit Inspection"](#).

HAZARD SWITCH

HAZARD SWITCH

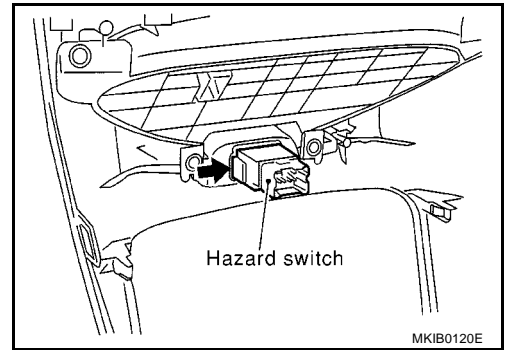
PFP:25290

Removal and Installation

EKS009N3

REMOVAL

1. Remove cluster lid C. Refer to IP section in P12 ESM (SM2E00-1P12E0E) .
2. Using a flat-bladed screwdriver or other suitable tool, press pawl to remove hazard switch from cluster lid C.



INSTALLATION

Installation is in the reverse order of removal.

A

B

C

D

E

F

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J

LT

L

M

STOP LAMP

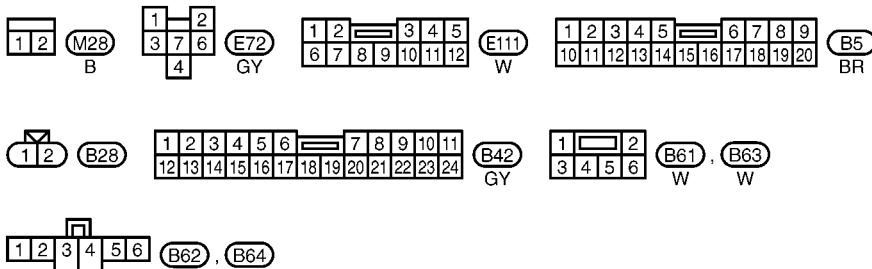
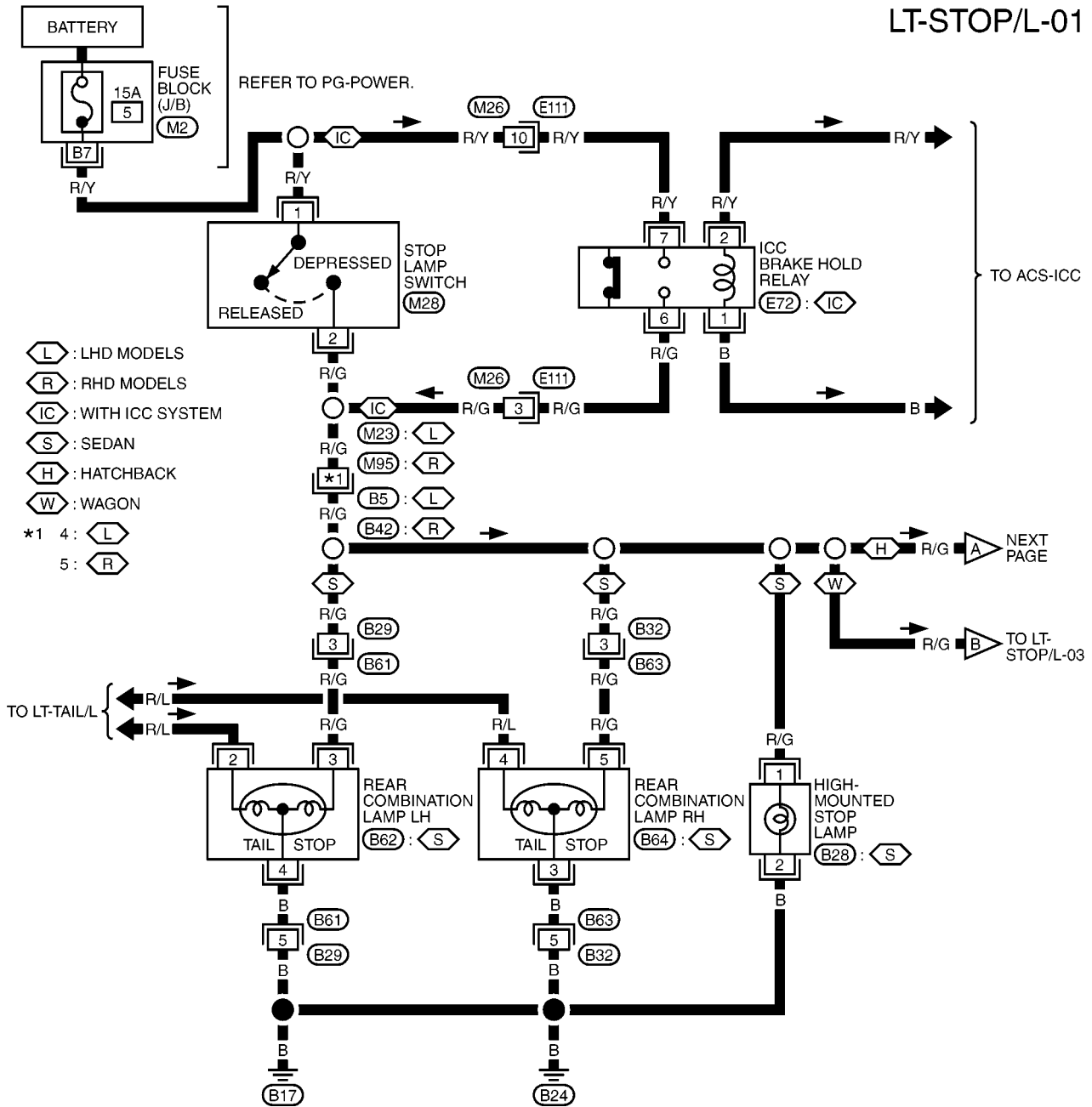
PFP:26550

STOP LAMP

Wiring Diagram — STOP/L —

EKS009N4

LT-STOP/L-01



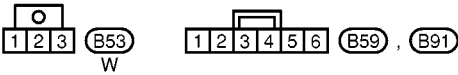
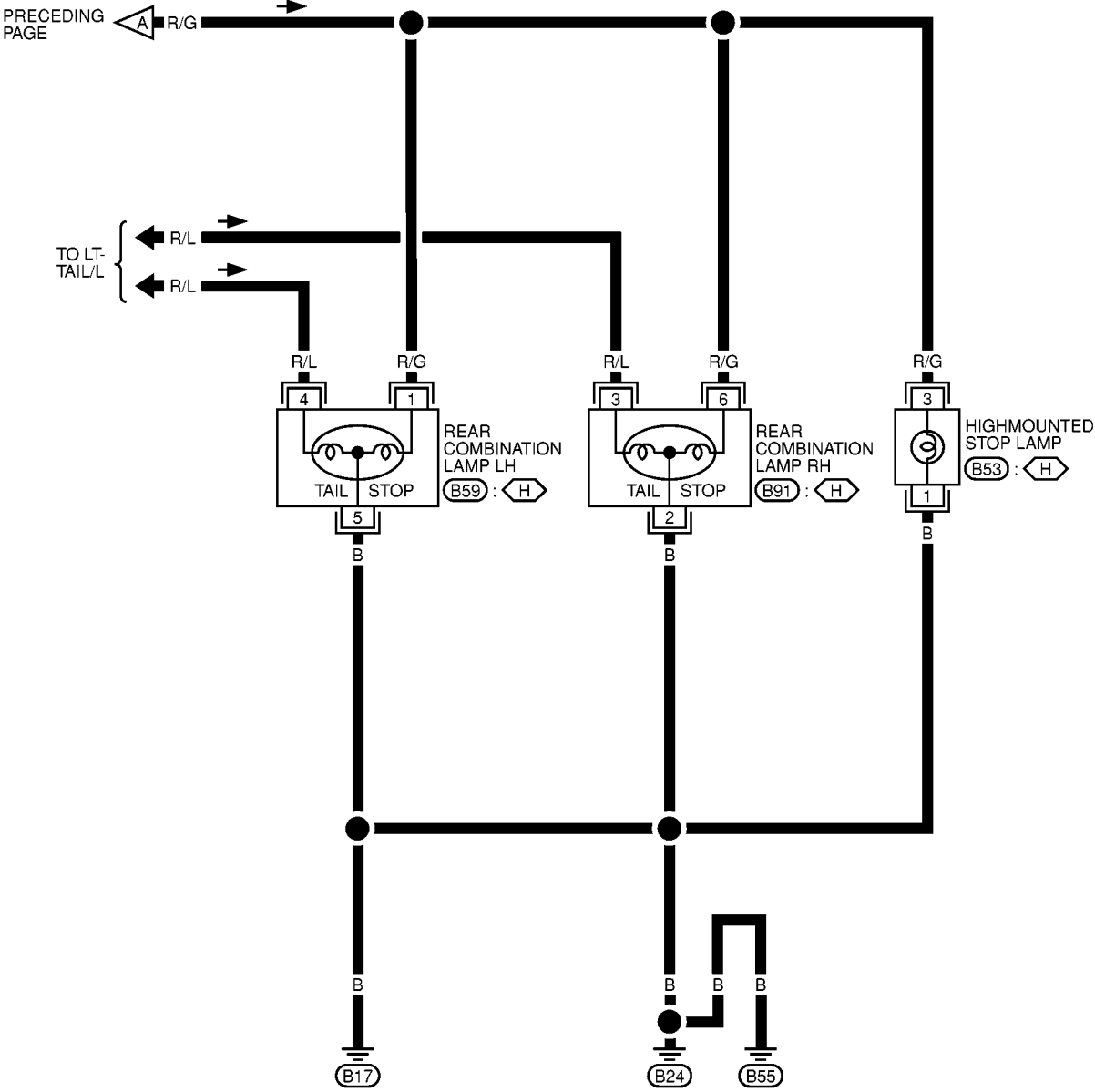
REFER TO THE FOLLOWING.

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

STOP LAMP

LT-STOP/L-02

(H) : HATCHBACK

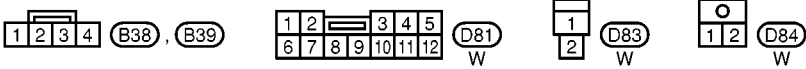
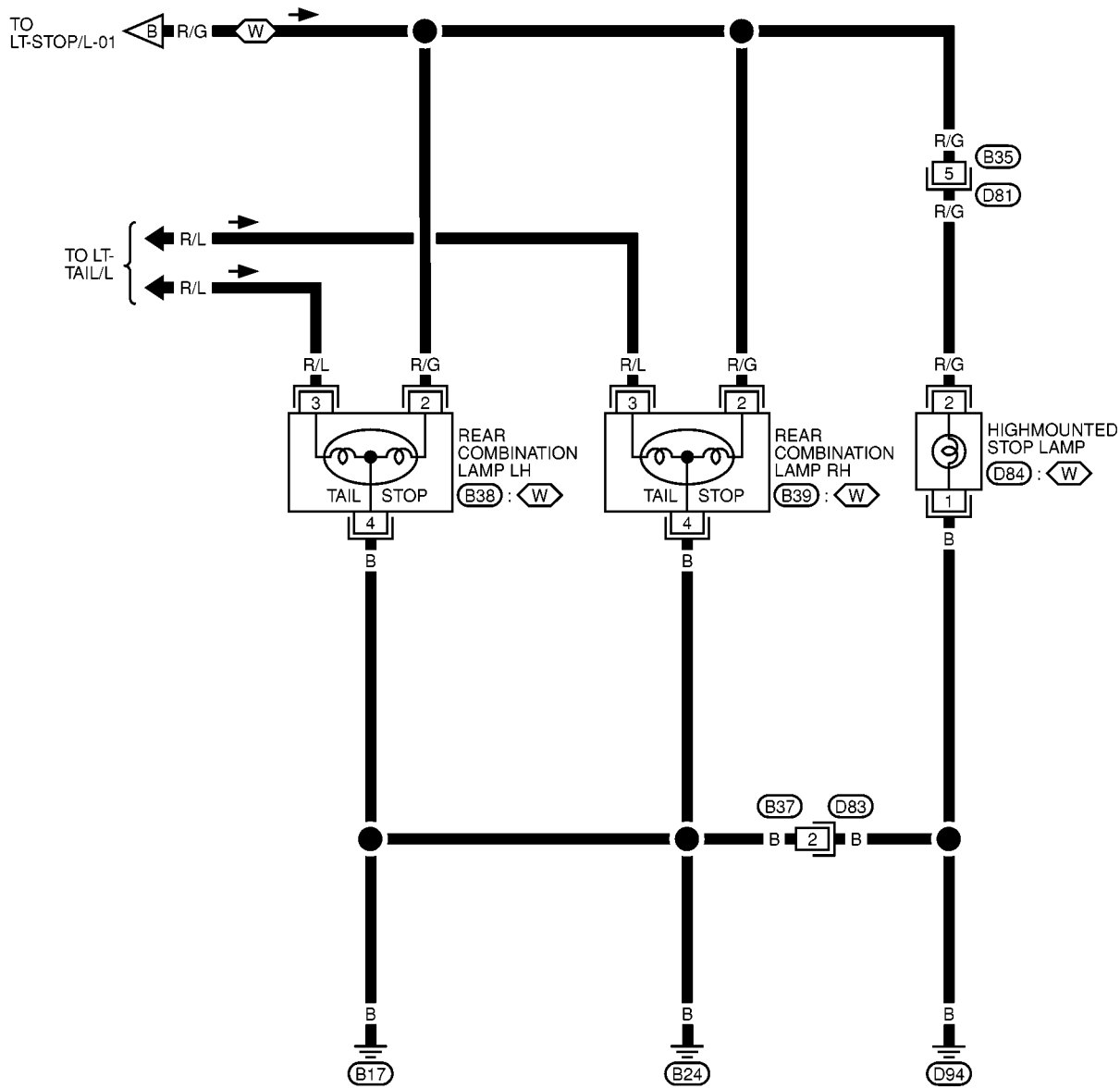


LT

STOP LAMP

LT-STOP/L-03

W : WAGON



MKWA0585E

STOP LAMP

Bulb Replacement
STOP LAMP

EKS009N5

Refer to [LT-92, "REAR COMBINATION LAMP"](#)

Removal and Installation
STOP LAMP

EKS009N6

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

A

B

C

D

E

F

G

H

I

J

LT

L

M

BACK-UP LAMP

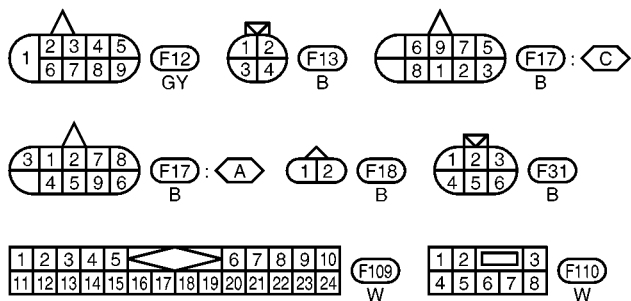
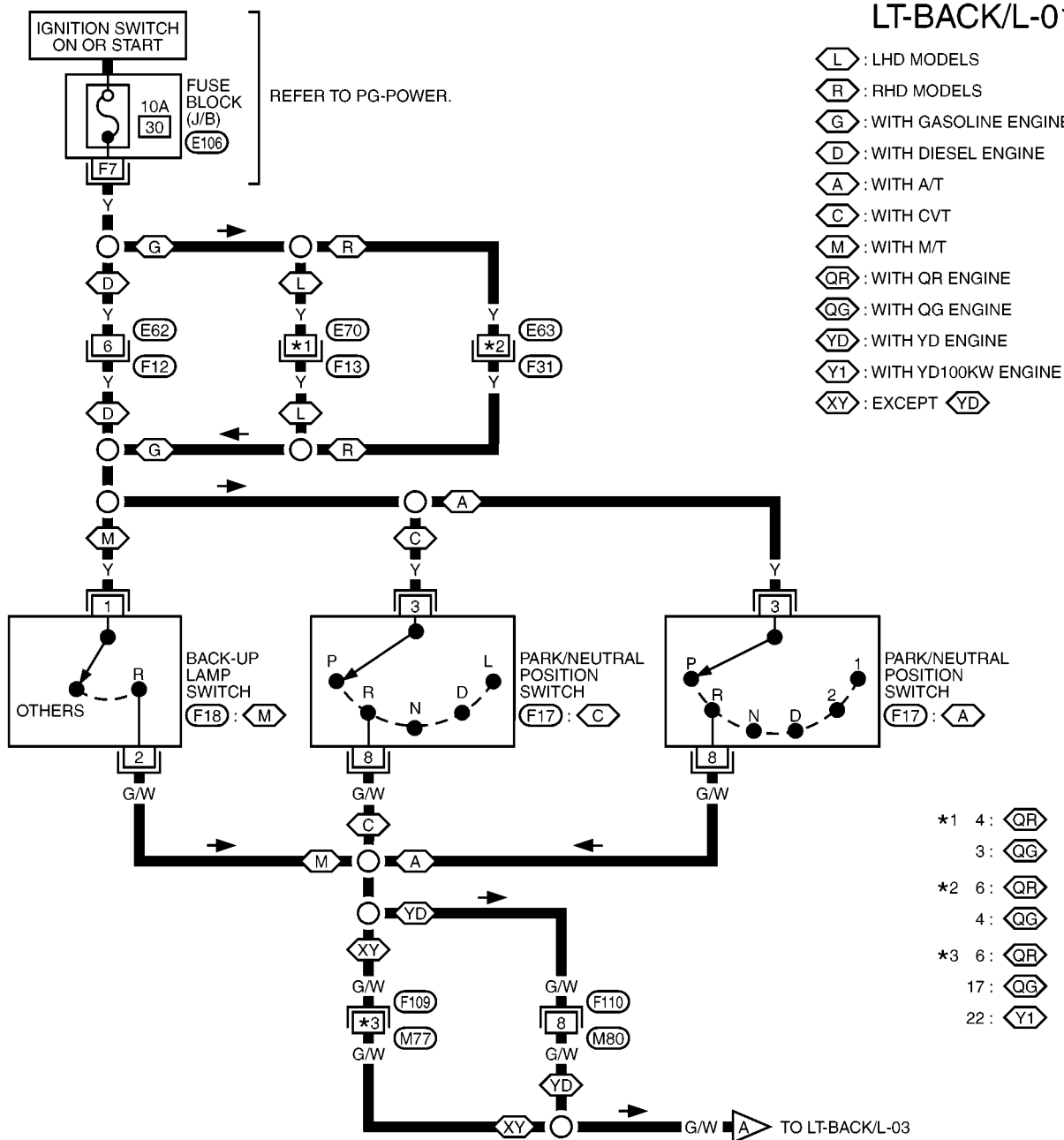
BACK-UP LAMP

PFP:26550

Wiring Diagram — BACK/L —

EKS009N7

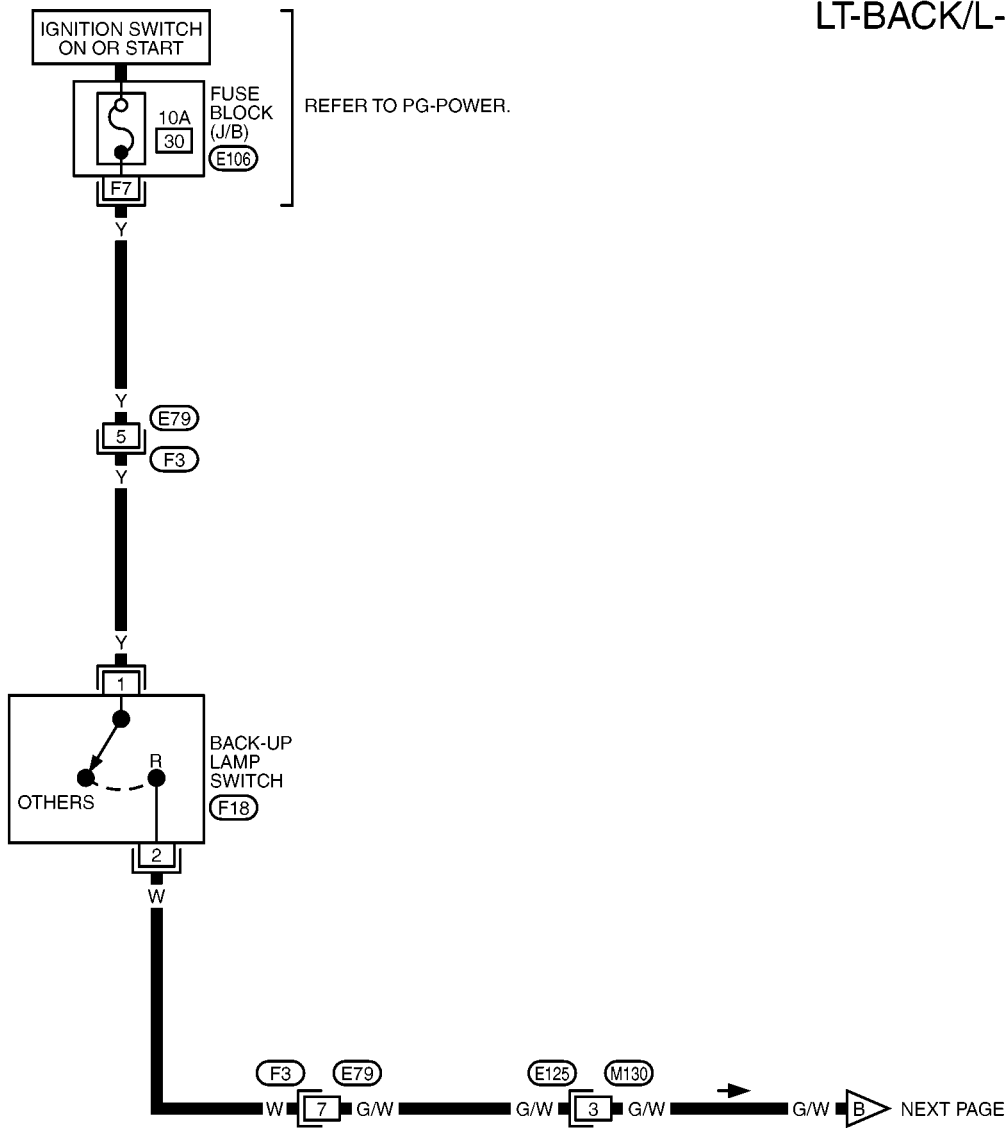
LT-BACK/L-01



REFER TO THE FOLLOWING.
(E106) -FUSE BLOCK-
 JUNCTION BOX (J/B)

BACK-UP LAMP

LT-BACK/L-02



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

E125

W

1

2

3

4

5

6

7

8

F3

B

1

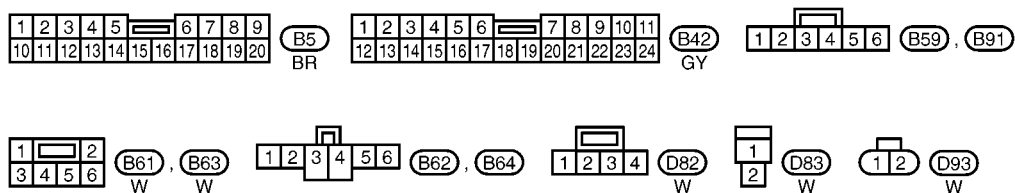
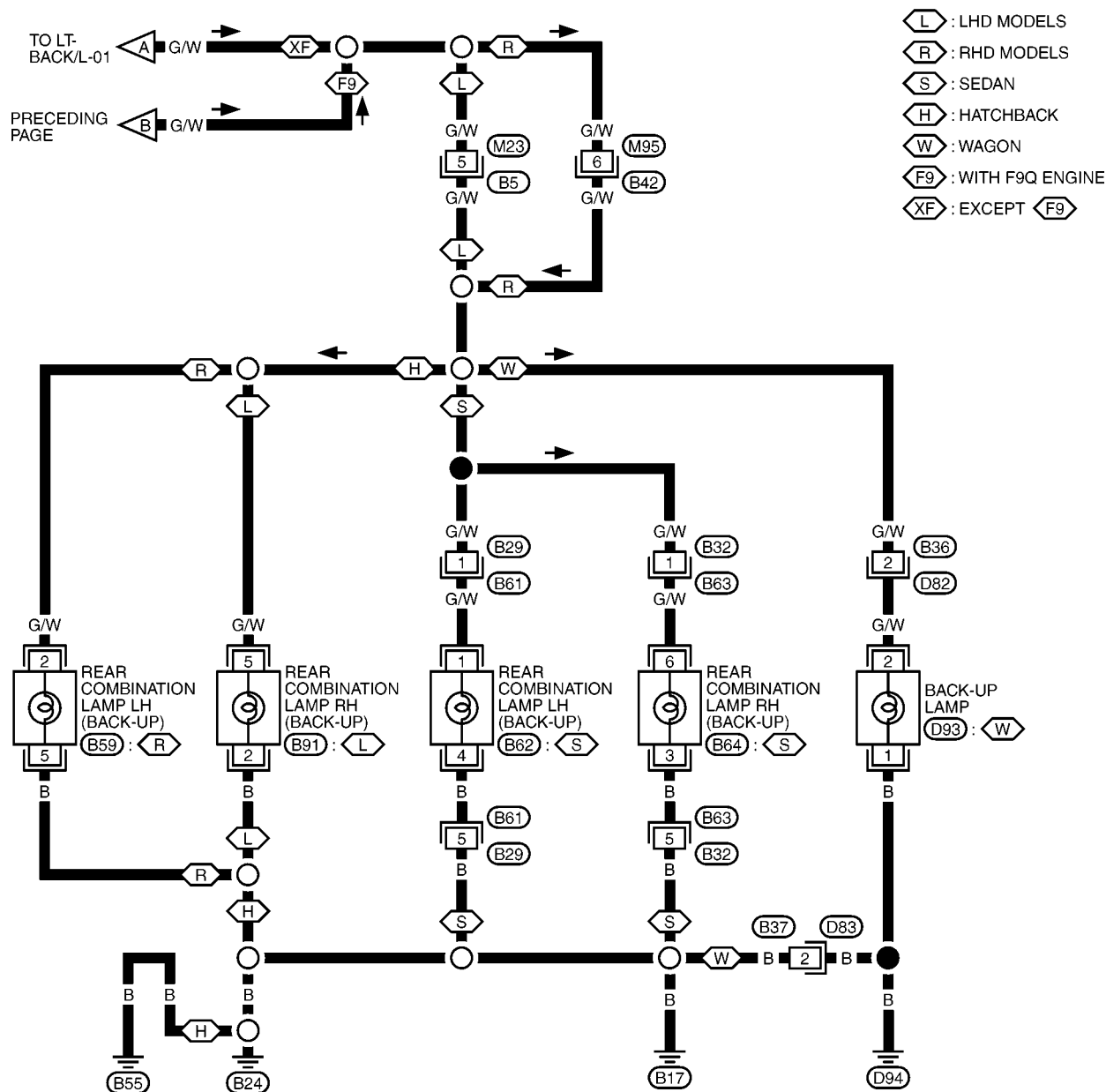
2

F18

B

REFER TO THE FOLLOWING.
E106 -FUSE BLOCK-
JUNCTION BOX (J/B)

LT-BACK/L-03



BACK-UP LAMP

Bulb Replacement (Sedan and Hatch Back)

EKS009NB

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

A

Bulb Replacement (Wagon)

EKS009NB

Refer to [LT-70, "PARKING, LICENSE PLATE AND TAIL LAMPS"](#) .

B

Removal and Installation (Sedan and Hatch Back)

EKS009NA

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

C

Removal and Installation (Wagon)

EKS009NB

Refer to [LT-70, "PARKING, LICENSE PLATE AND TAIL LAMPS"](#) .

D

E

F

G

H

I

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LT

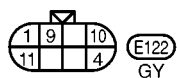
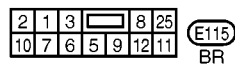
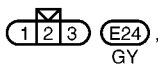
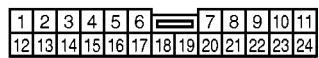
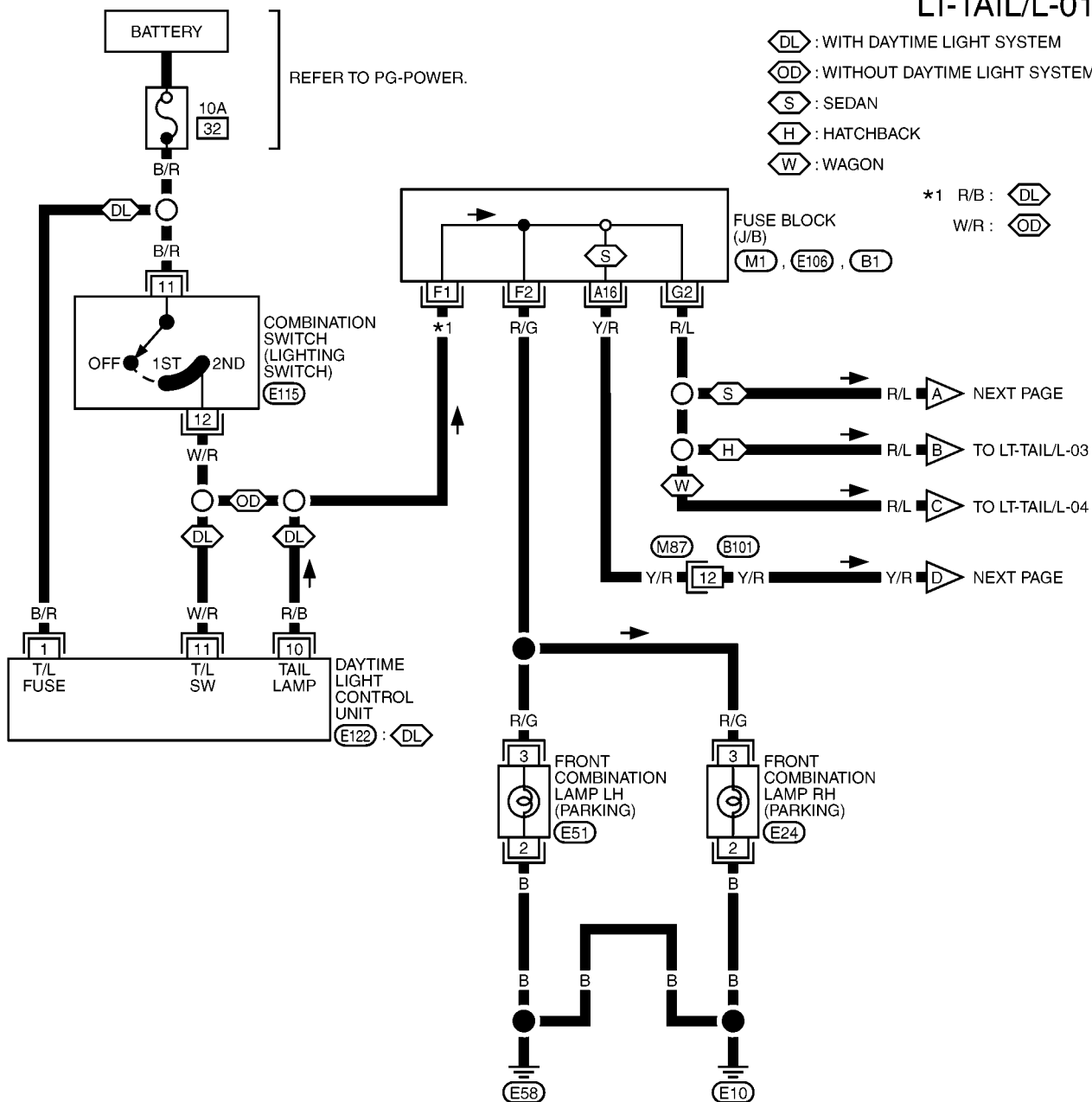
L

M

Wiring Diagram - TAIL/L -/LHD MODELS

EKS009ND

LT-TAIL/L-01

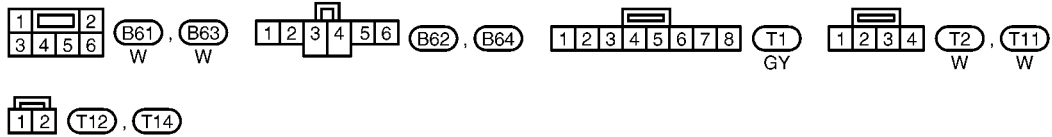
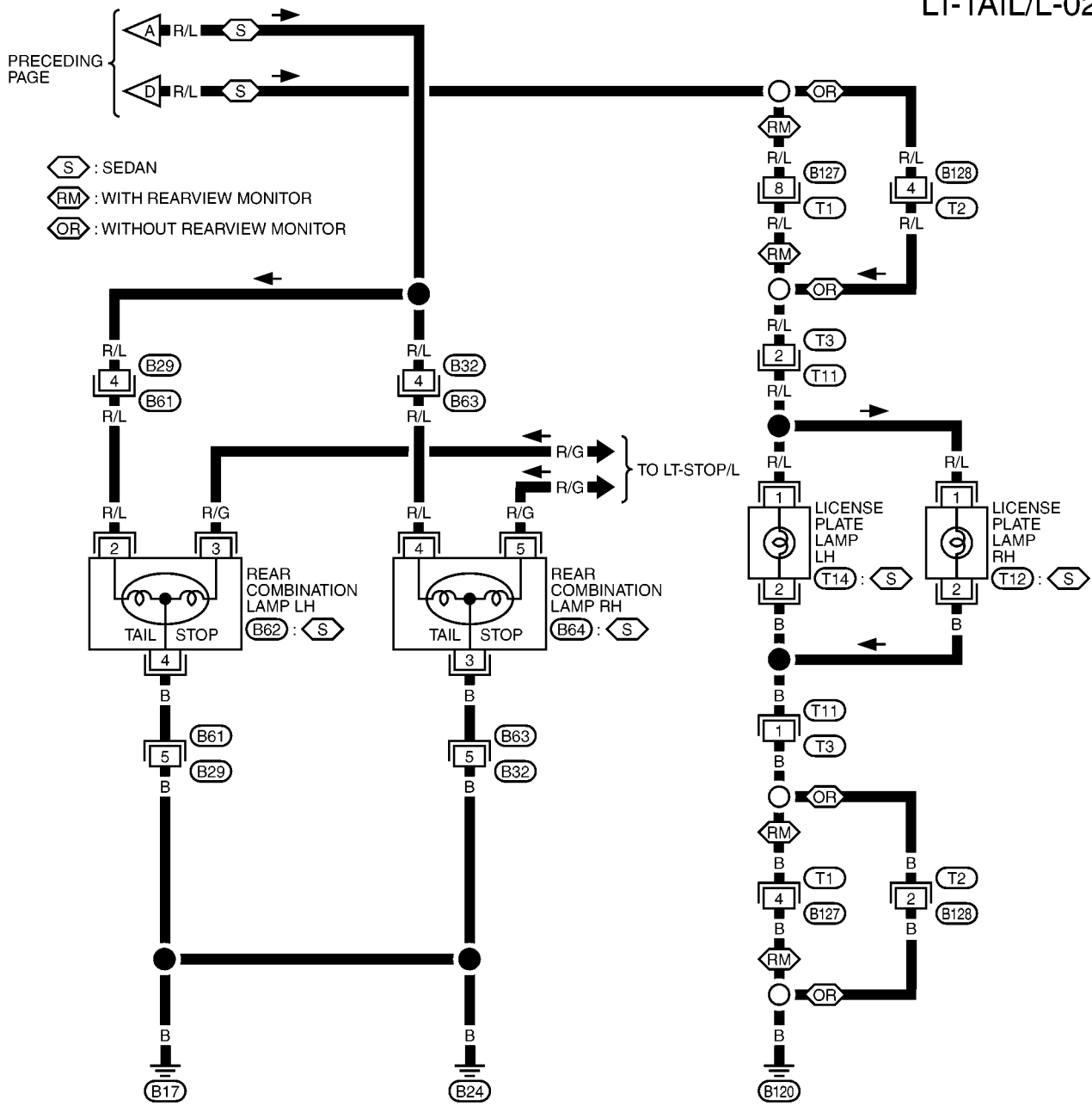


REFER TO THE FOLLOWING.

(M1), (E106), (B1) -FUSE BLOCK-JUNCTION BOX (J/B)

PARKING, LICENSE PLATE AND TAIL LAMPS

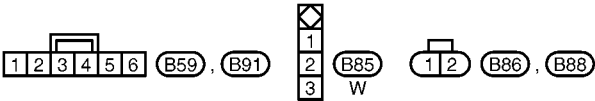
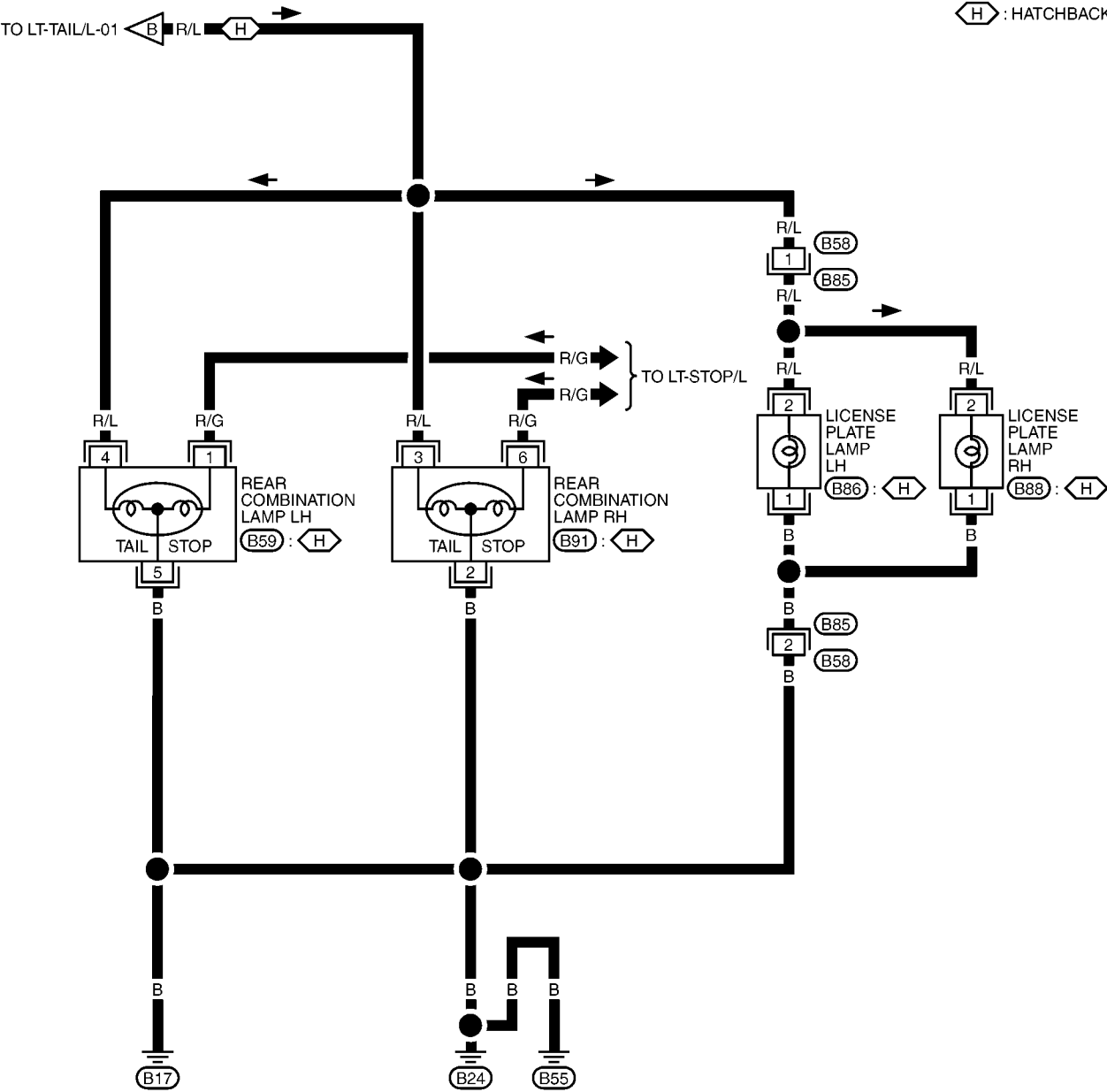
LT-TAIL/L-02



PARKING, LICENSE PLATE AND TAIL LAMPS

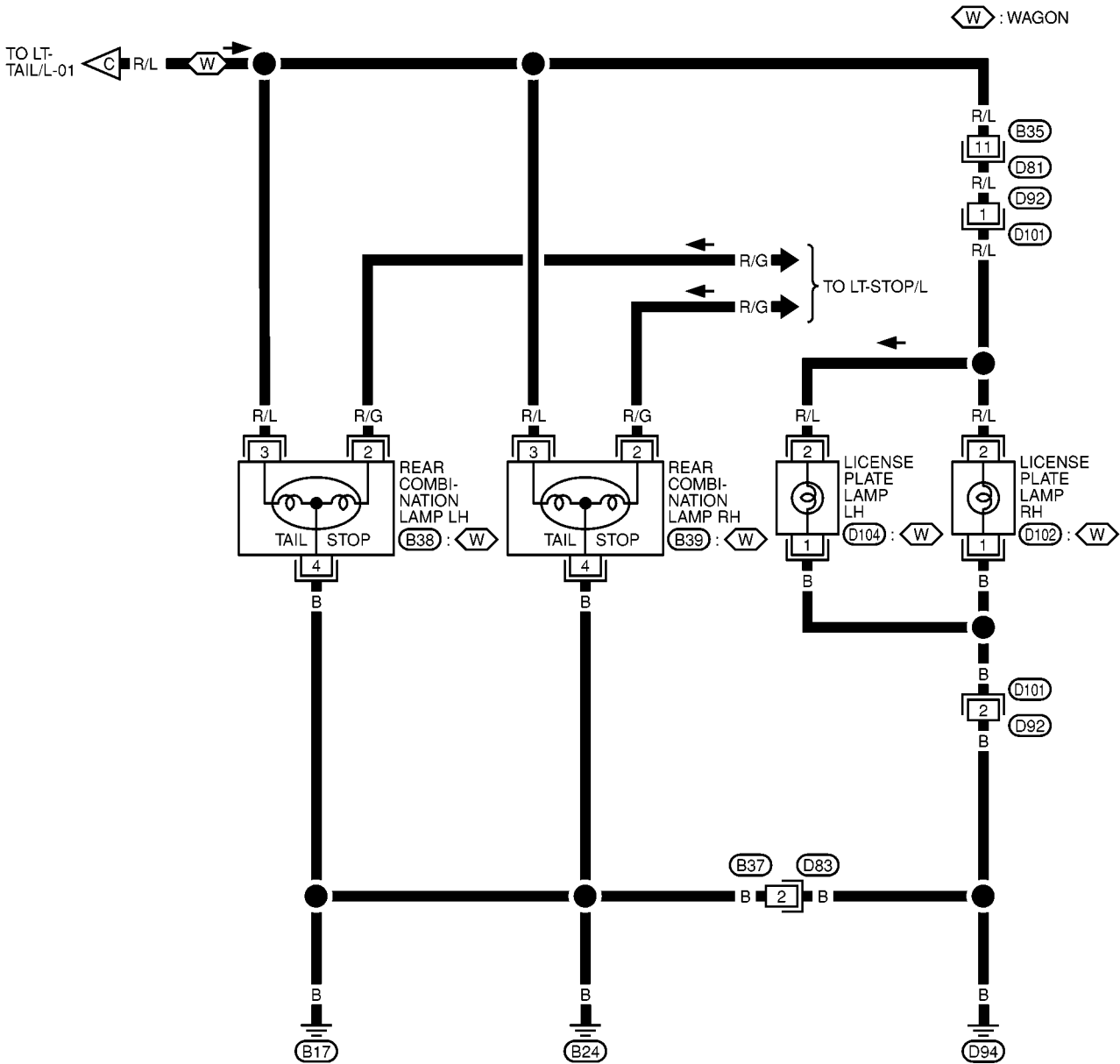
LT-TAIL/L-03

(H) : HATCHBACK



PARKING, LICENSE PLATE AND TAIL LAMPS

LT-TAIL/L-04



1 2 3 4 B38 , B39

1 2 3 4 5 D81
6 7 8 9 10 11 12 W

1 D83
2 W

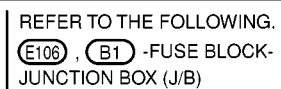
1 D101
2 W
3

1 2 D102 , D104

MKWA0590E

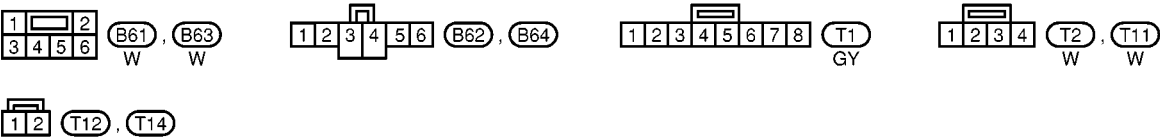
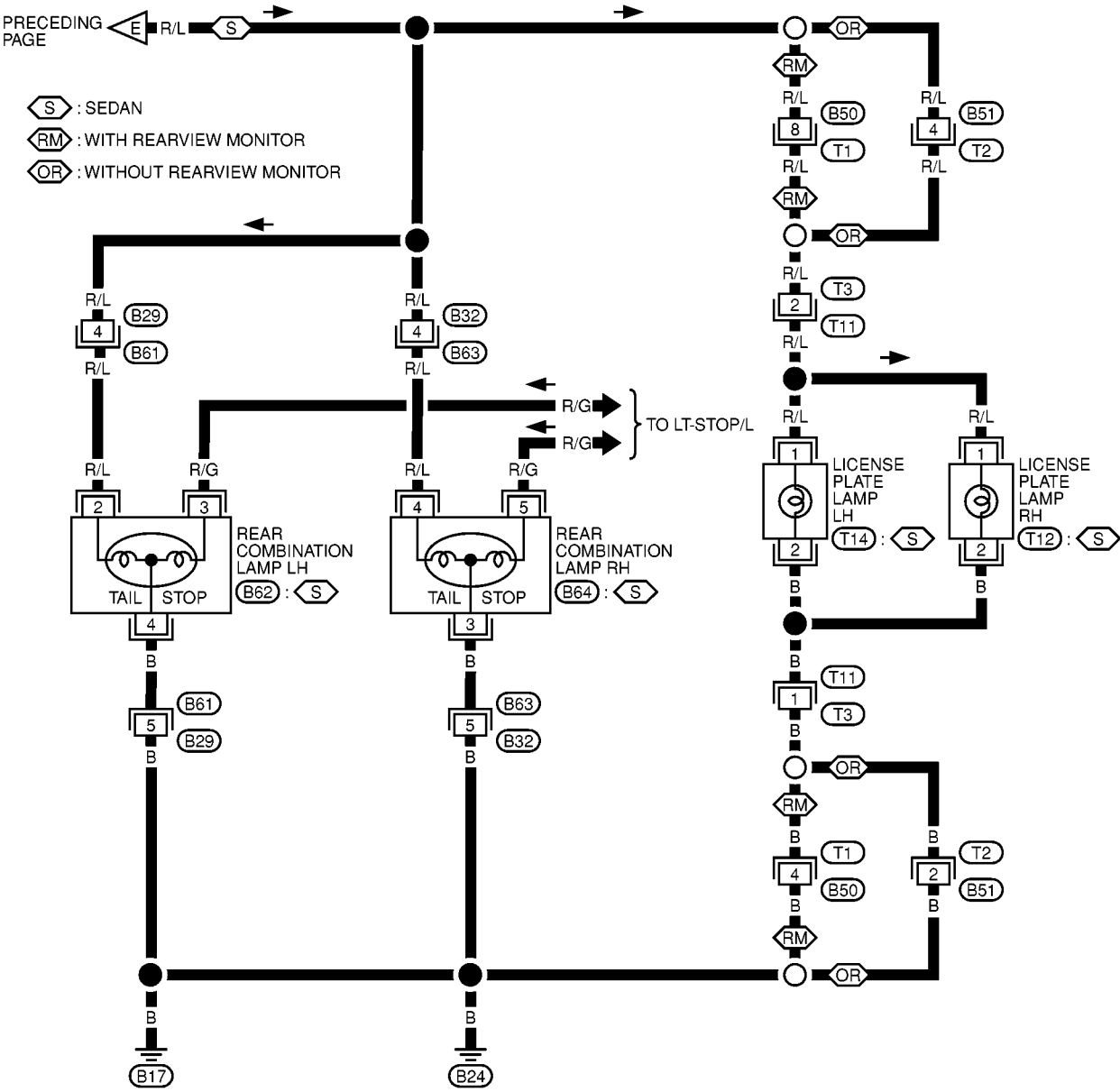
Wiring Diagram - TAIL/L-/RHD MODELS

LT-TAIL/L-05



PARKING, LICENSE PLATE AND TAIL LAMPS

LT-TAIL/L-06

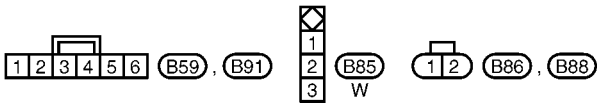
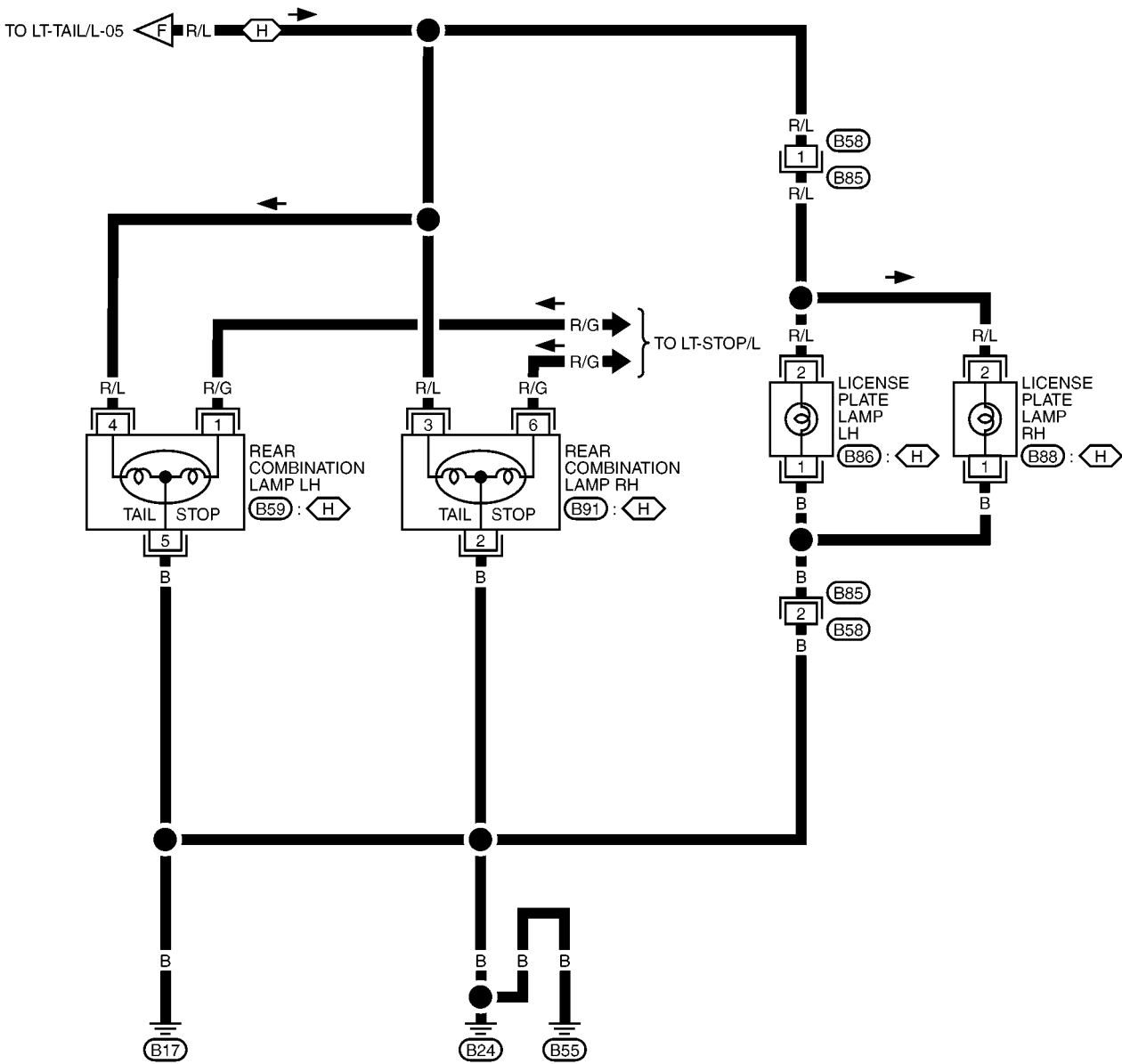


MKWA0592E

PARKING, LICENSE PLATE AND TAIL LAMPS

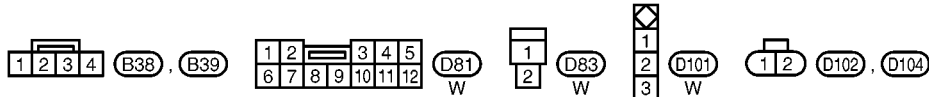
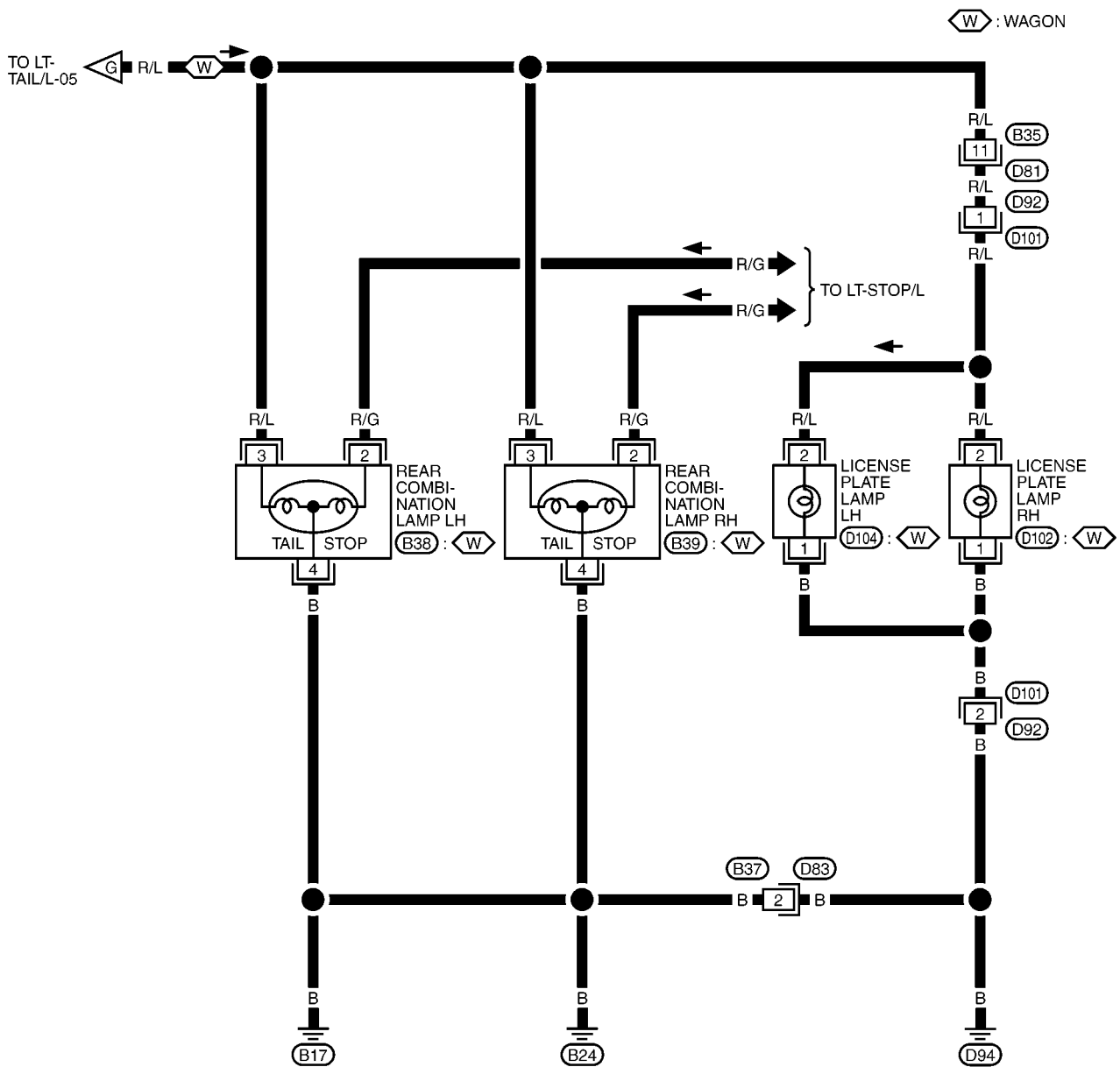
LT-TAIL/L-07

(H) : HATCHBACK



PARKING, LICENSE PLATE AND TAIL LAMPS

LT-TAIL/L-08



MKWA1111E

PARKING, LICENSE PLATE AND TAIL LAMPS

Bulb Replacement PARKING AND TAIL LAMPS

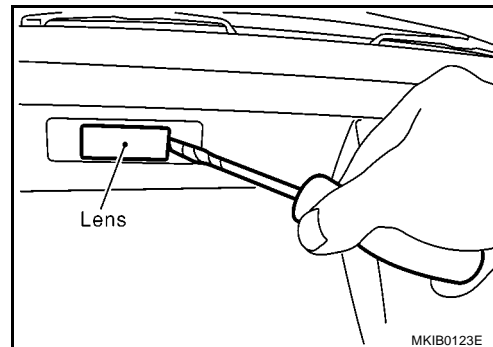
EKS009NF

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

LICENSE PLATE LAMP

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

License plate lamp : 12V - 5W



Removal and Installation PARKING AND TAIL LAMPS

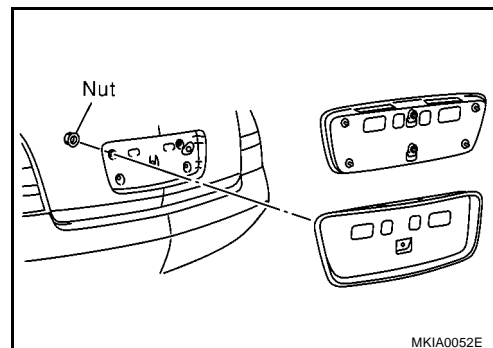
EKS009NG

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

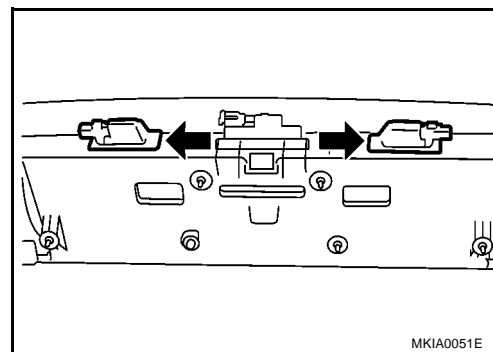
LICENSE PLATE LAMP

Removal (Sedan and Hatchback)

1. Remove the license lamp finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E) .
2. Remove the harness from installation pawl for harness.



3. Push license plate lamp mounting hook.
4. Pull out license plate lamp from finisher.



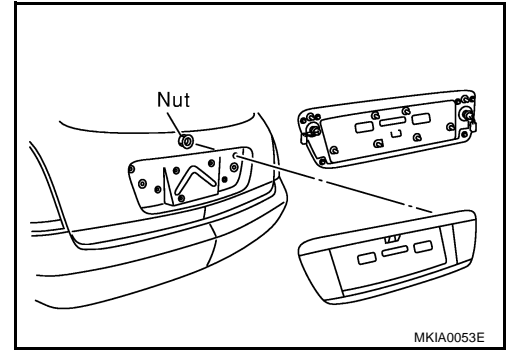
Installation

- Install license plate lamp in the reverse order of removal.

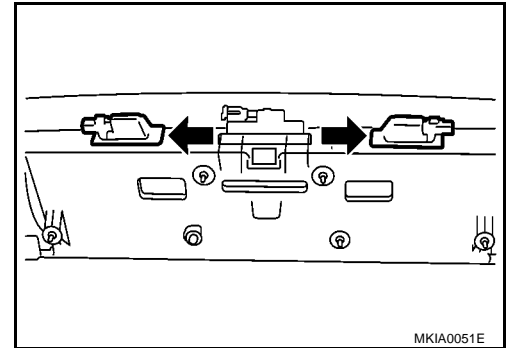
PARKING, LICENSE PLATE AND TAIL LAMPS

Removal (Wagon)

1. Remove the license lamp finisher. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Remove the harness from installation pawl for harness.



3. Push license plate lamp mounting hook.
4. Pull out license plate lamp from finisher.



Installation

- Install license plate lamp in the reverse order of removal.

A
B
C
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G
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LT
L
M

FRONT FOG LAMP

FRONT FOG LAMP

PFP:00011

System Description DESCRIPTION

EKS009NH

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

- through 15A fuse (No. 43, located in the fuse and fusible link box).

With the lighting switch in the 1ST or 2ND position and LOW ("B") position, power is supplied

- to lighting switch terminal 11
- through 10A fuse (No. 32, located in the fuse and fusible link box).
- to fog lamp switch terminal 32
- through terminal 12 of the lighting switch.
- to fog lamp relay terminal 2
- through the fog lamp switch and body grounds E10 and E58.

FOG LAMP OPERATION

The fog lamp switch is built into the combination switch. The lighting switch must be in the 1st or 2nd position and LOW ("B") position for fog lamp operation.

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

- to front fog lamp relay terminal 2
- through fog lamp switch terminal 31.

The fog lamp relay is energized and power is supplied

- from fog lamp relay terminal 5
- to terminal 1 of each fog lamp, and
- to combination meter terminal 6 (LHD models) or 19 (RHD models) for the FRONT FOG indicator.

Ground is supplied to terminals 24, 25 and 45 (LHD models) or 11, 12 and 32 (RHD models) to the combination meter through body grounds M16, M50 and M70.

Ground is supplied to terminal 2 of each front fog lamp through body grounds E10 and E58.

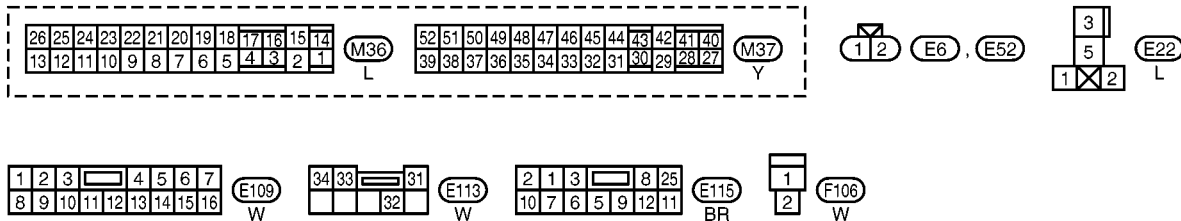
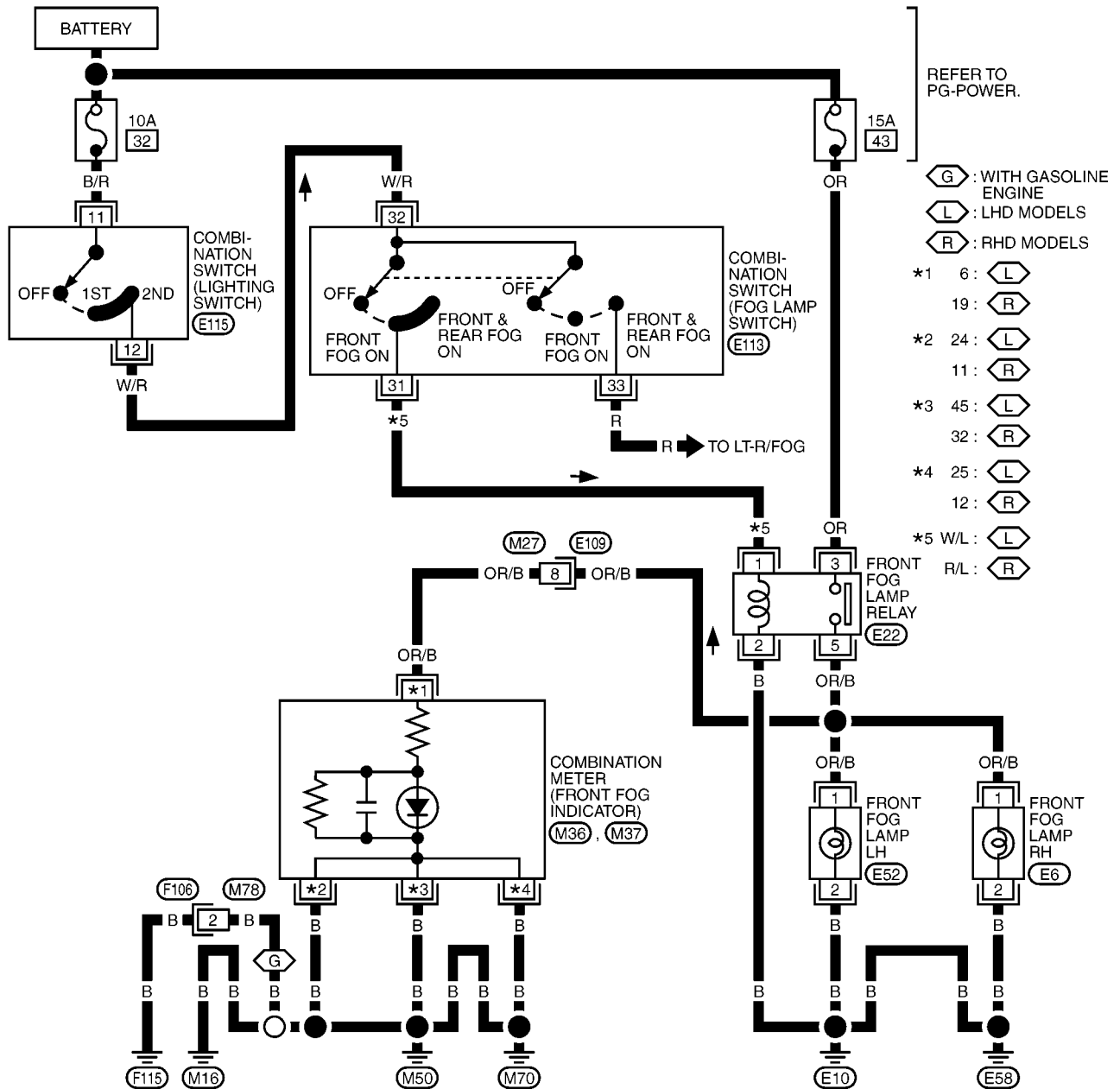
With power and ground supplied, the front fog lamps and the front fog indicator illuminate.

FRONT FOG LAMP

Wiring Diagram — F/FOG —

EKS009NI

LT-F/FOG-01

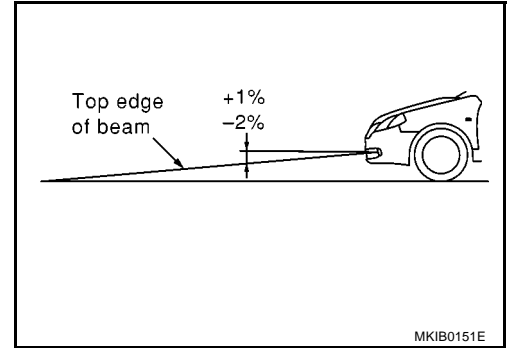


FRONT FOG LAMP

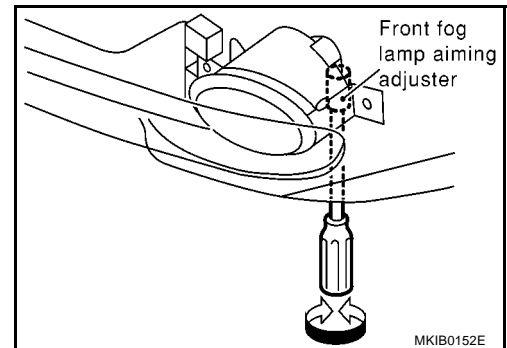
Aiming Adjustment

EKS009NJ

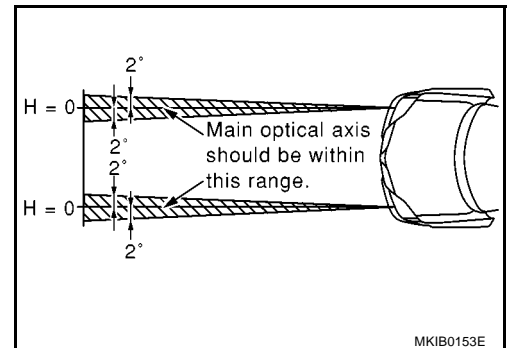
1. Set the top edge of the fog lamp lens as shown in the figure.



2. Turn front fog lamps ON.



3. Adjust front fog lamps as shown in the figure.
 - When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.



Bulb Replacement

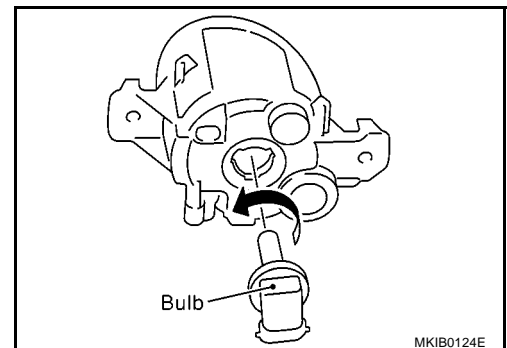
EKS009NK

1. Remove fender protector.
2. Turn bulb counterclockwise then remove it.

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 headlamp reflector for a long time because dust, moisture smoke, etc. may affect the performance of headlamp. When replacing bulb, be sure to replace it with new one.
- When bulb is installed, be sure to lock plastic cap to ensure watertightness.



Removal and Installation

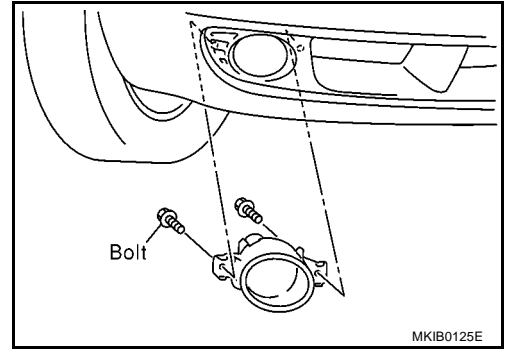
REMOVAL

EKS009NL

1. Remove fender protector. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect fog lamp connector.


FRONT FOG LAMP

3. Remove fog lamp mounting bolt.
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

 : 3.3 - 7.7 N·m (0.33 - 0.79 kg-m, 29 - 69 in-lb)

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REAR FOG LAMP

PFP:26550

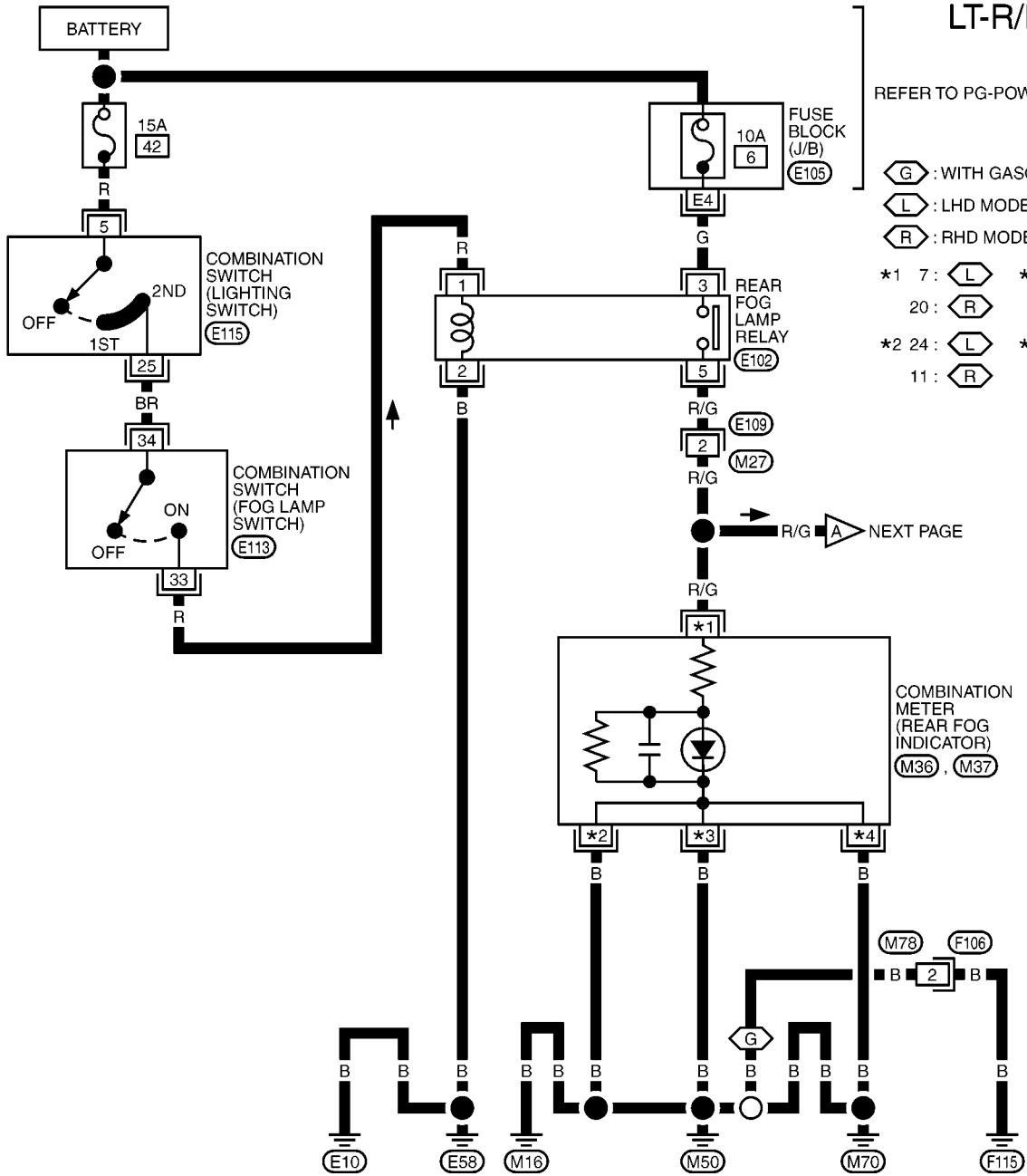
EKS009NM

LT-R/FOG-01

REFER TO PG-POWER.

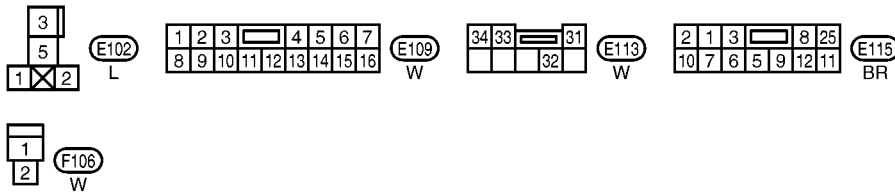
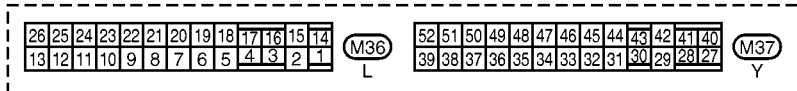
- ⬢ G : WITH GASOLINE ENGINE
- ⬢ L : LHD MODELS
- ⬢ R : RHD MODELS

- *1 7 : ⬢ L *3 45 : ⬢ L
- 20 : ⬢ R 32 : ⬢ R
- *2 24 : ⬢ L *4 25 : ⬢ L
- 11 : ⬢ R 12 : ⬢ R



REFER TO THE FOLLOWING.

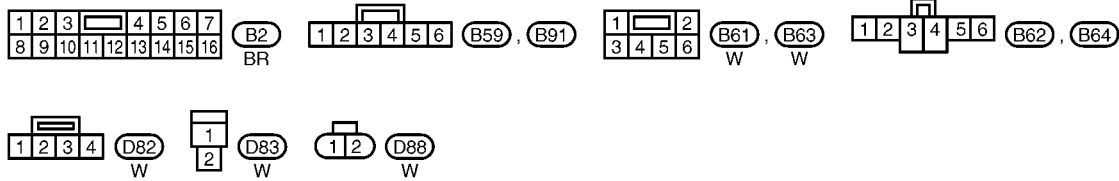
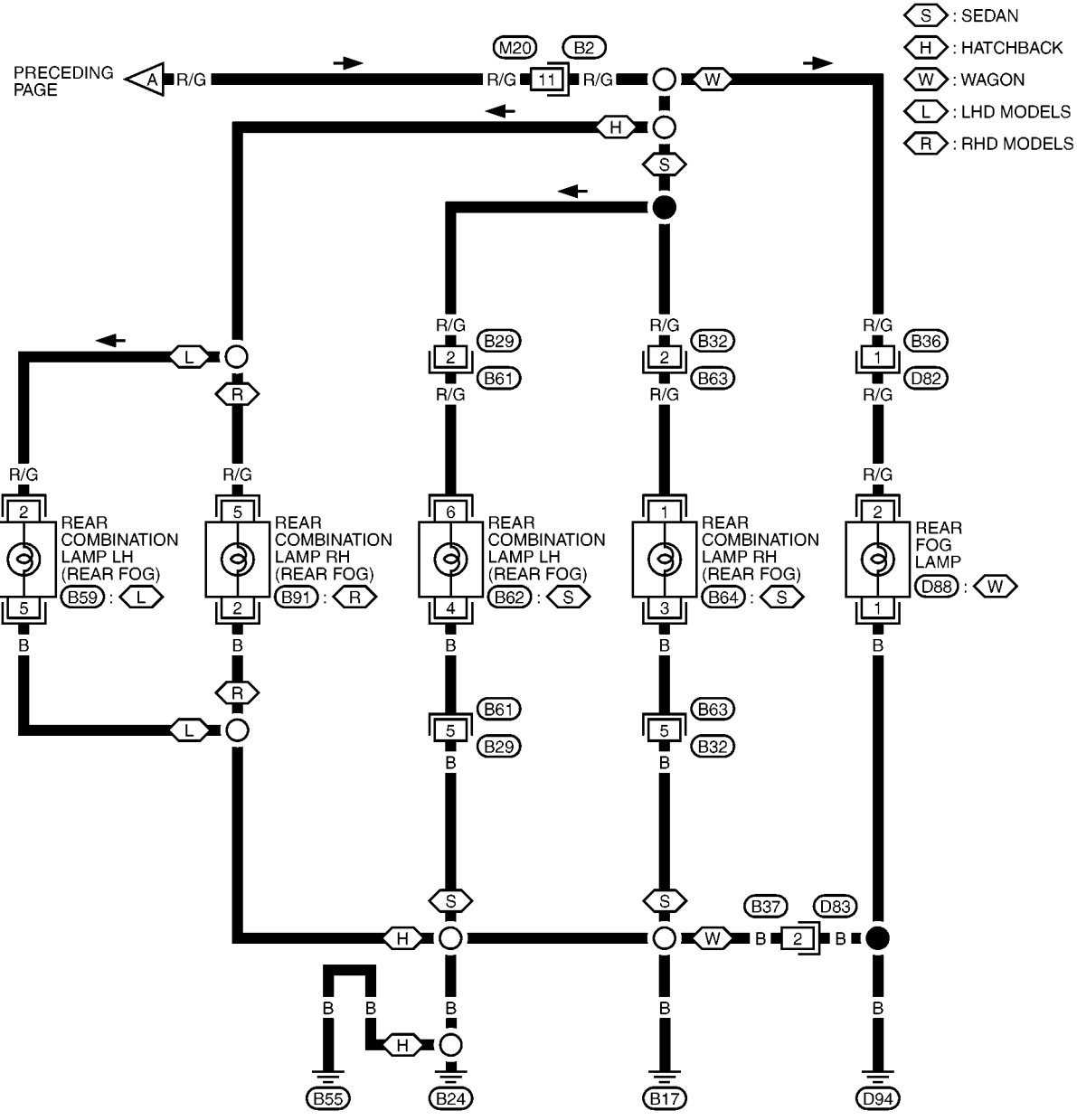
(E105) -FUSE BLOCK-JUNCTION BOX (J/B)



MKWA1113E

REAR FOG LAMP

LT-R/FOG-02

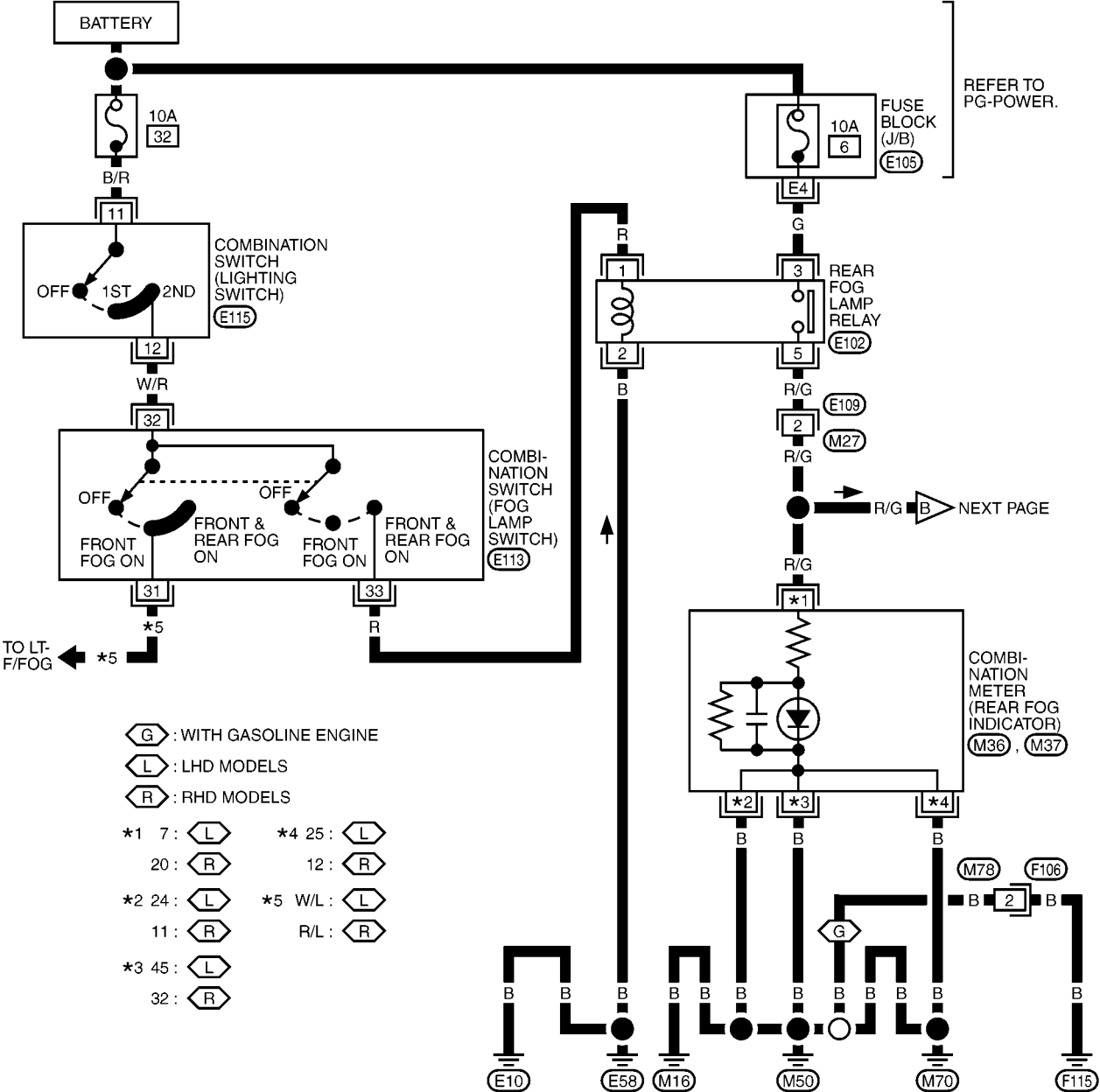


REAR FOG LAMP

Wiring Diagram — R/FOG — /With Front Fog Lamp

EKS009NN

LT-R/FOG-03

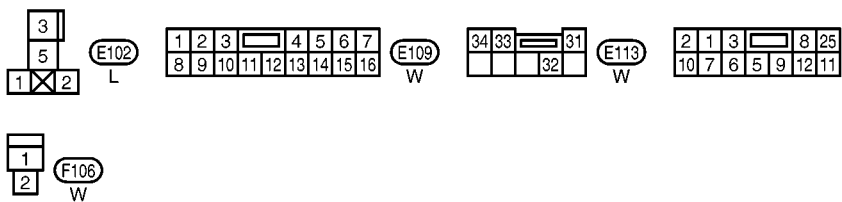


26	25	24	23	22	21	20	19	18	17	16	15	14
13	12	11	10	9	8	7	6	5	4	3	2	1

(M36) L

52	51	50	49	48	47	46	45	44	43	42	41	40
39	38	37	36	35	34	33	32	31	30	29	28	27

(M37) Y

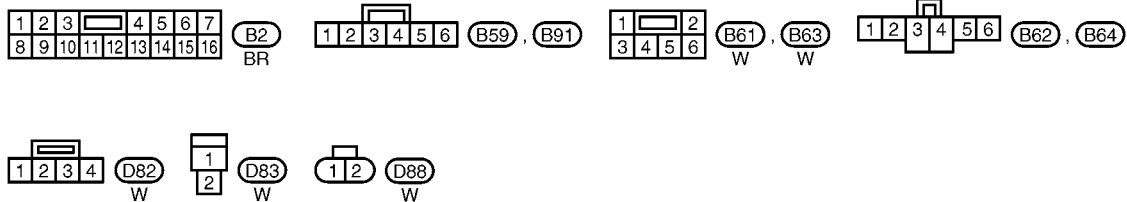
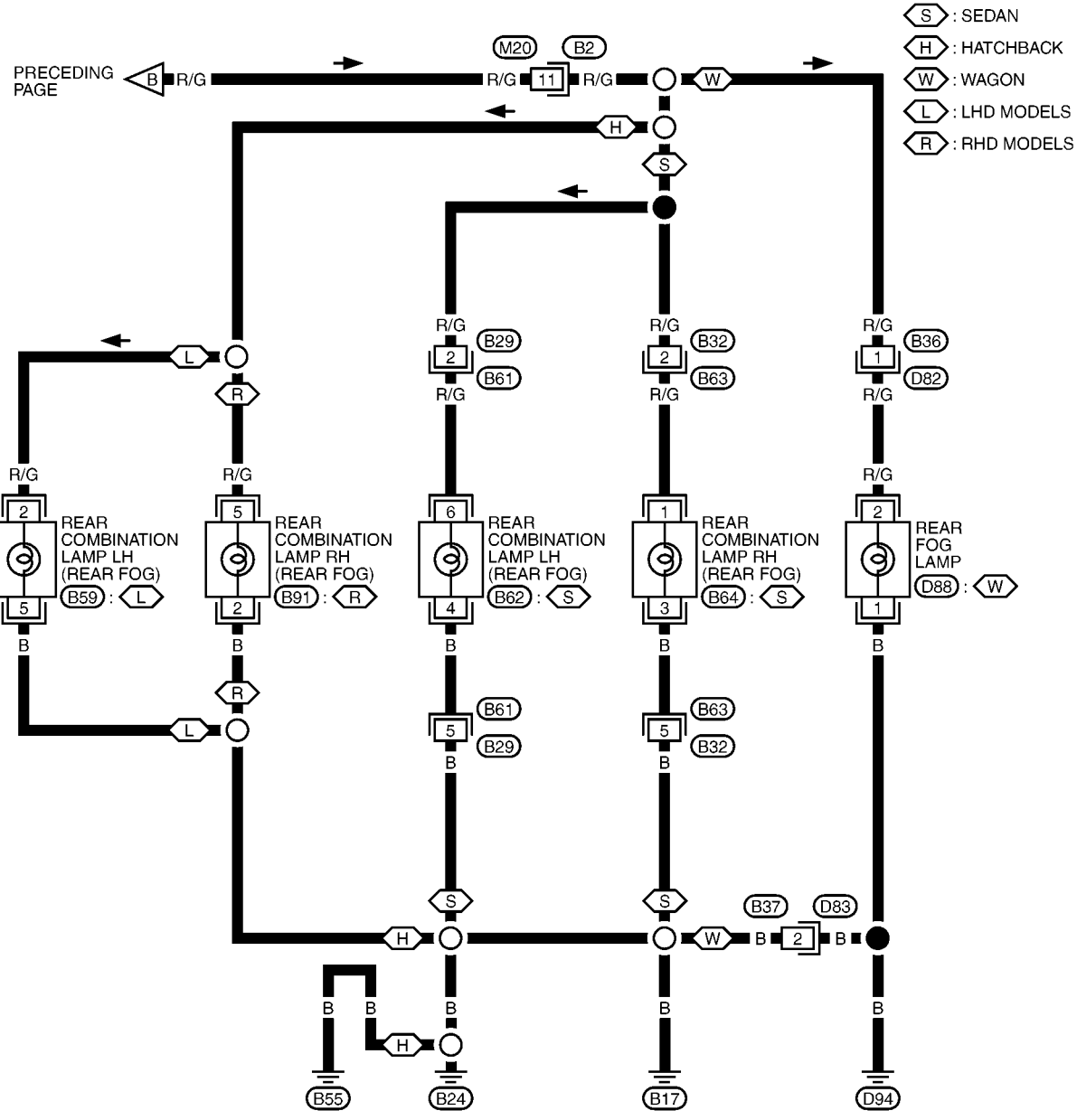


REFER TO THE FOLLOWING.

(E105) - FUSE BLOCK-JUNCTION BOX (J/B)

REAR FOG LAMP

LT-R/FOG-04



REAR FOG LAMP

Bulb Replacement (Sedan and Hatchback)

EKS009NO

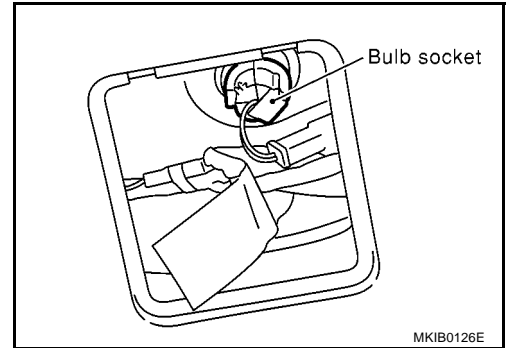
Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

Bulb Replacement (Wagon)

EKS009NP

1. Remove the back door mask RH (RHD) or LH (LHD) on the back door finisher.
2. Turn bulb socket counterclockwise and unlock it.
3. Remove bulb.

Rear fog lamp : 12V - 21W



MKIB0126E

Removal and Installation

REMOVAL (SEDAN AND HATCHBACK)

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

REMOVAL (WAGON)

Refer to [LT-78, "Removal and Installation"](#) .

INSTALLATION (SEDAN AND HATCHBACK)

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

INSTALLATION (WAGON)

Refer to [LT-78, "Removal and Installation"](#) .

EKS009NQ

CLEARANCE LAMP/TAIL LAMP

CLEARANCE LAMP/TAIL LAMP

PFP:26010

Bulb Replacement (Clearance Lamp)

EKS009NR

Refer to [LT-9, "CLEARANCE LAMP, FRONT TURN SIGNAL LAMP"](#) .

Bulb Replacement (Tail Lamp)

EKS009NS

Refer to [LT-92, "REAR COMBINATION LAMP"](#) .

Removal and Installation of Clearance Lamp

EKS009NT

Refer to [LT-9, "Removal and Installation"](#) .

Removal and Installation of Tail Lamp

EKS009NU

Refer to [LT-93, "Removal and Installation"](#) .

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HIGH-MOUNTED STOP LAMP

HIGH-MOUNTED STOP LAMP

PFP:26590

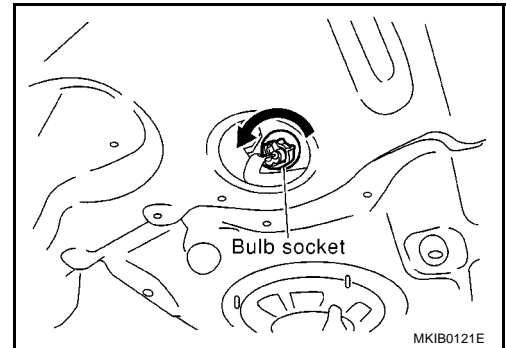
Bulb Replacement

HIGH-MOUNTED STOP LAMP (SEDAN)

EKS009NV

1. Open the trunk lid.
2. Turn the bulb socket counterclockwise and unlock it.
3. Remove the bulb from its socket.

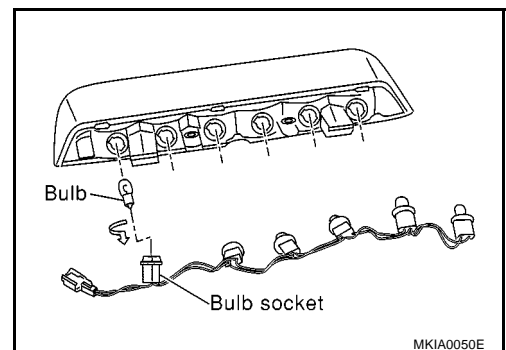
High-mounted stop lamp : 12V - 21W



HIGH-MOUNTED STOP LAMP (WAGON)

1. Remove the high-mounted stop lamp. Refer to "Removal and Installation" below.
2. Turn the high-mounted stop lamp bulb socket counterclockwise and unlock it.
3. Remove the bulb.

High-mounted stop lamp : 12V 5W



HIGH-MOUNTED STOP LAMP (HATCHBACK)

LED bulb is not serviceable.

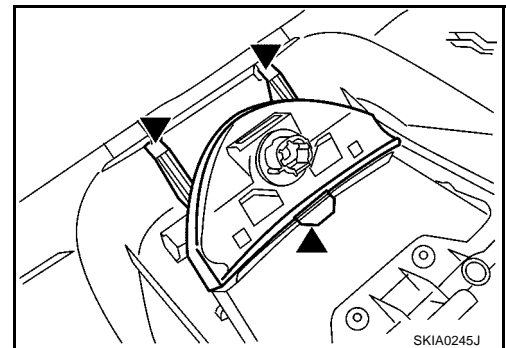
Replace high-mounted stop lamp assembly.

Removal and Installation

HIGH-MOUNTED STOP LAMP (SEDAN)

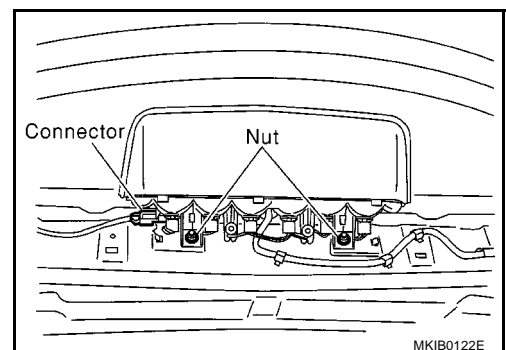
EKS009NW

1. Remove the rear parcel shelf. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Take off front and rear nails, then remove high-mounted stop lamp from rear parcel shelf finisher.



HIGH-MOUNTED STOP LAMP (WAGON)

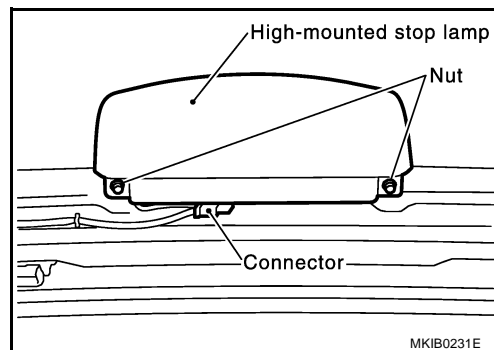
1. Remove the back door upper garnish. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect the high-mounted stop lamp connector.
3. Remove the high-mounted stop lamp mounting bolts.



HIGH-MOUNTED STOP LAMP

HIGH-MOUNTED STOP LAMP (HATCHBACK)

1. Remove the back door upper garnish. Refer to EI section in P12 ESM (SM2E00-1P12E0E).
2. Disconnect the high-mounted stop lamp connector.
3. Remove the high-mounted stop lamp mounting bolts.



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REAR COMBINATION LAMP

REAR COMBINATION LAMP

PFP:26554

Bulb Replacement (Sedan)

EKS009NX

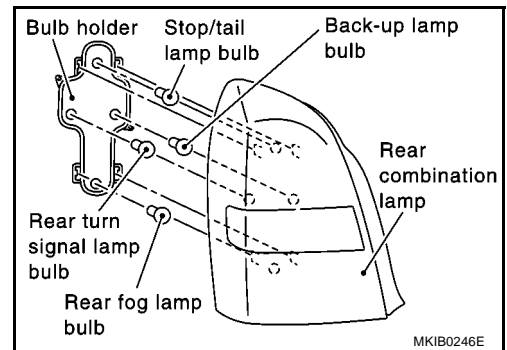
1. Open the trunk lid and remove wheel house finisher.
2. Remove rear combination lamp mounting nuts (2).
3. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (2).
4. Turn bulb socket counterclockwise and unlock it.
5. Remove bulbs.

Stop/tail lamp : 12V - 21/5W

Rear turn signal lamp : 12V - 21W

Back-up lamp : 12V - 21W

Rear fog lamp : 12V - 21W



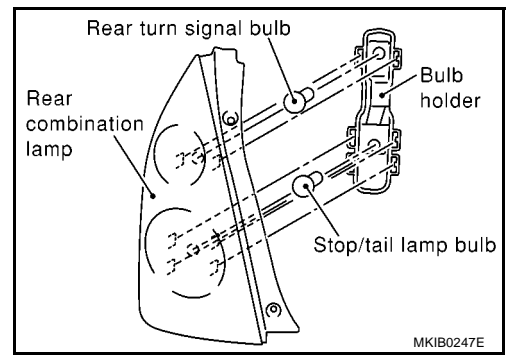
Bulb Replacement (Wagon)

EKS009NY

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

Stop/tail lamp : 12V - 21/5W

Rear turn signal lamp : 12V - 21W



Bulb Replacement (Hatchback)

EKS009NZ

1. Open the back door, and remove rear combination lamp mounting bolts (2).
2. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (2).
3. Remove bulb holder mounting screws(2) and remove bulb holder from rear combination lamp.

4. Turn bulb socket counterclockwise and unlock it.
5. Remove bulb.

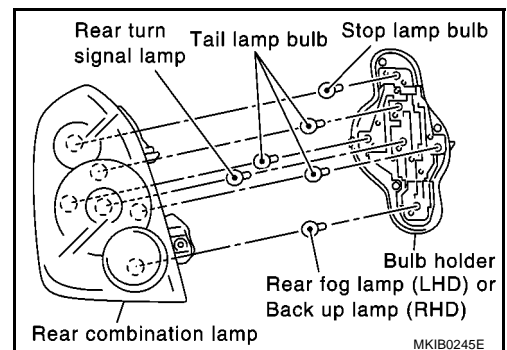
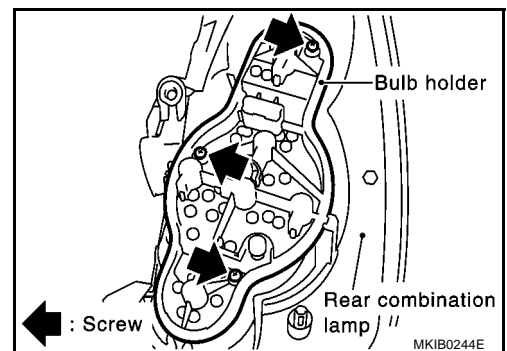
Stop lamp : 12V - 21W

tail lamp : 12V - 5W

Rear turn signal lamp : 12V - 21W

Back-up lamp (RHD) : 12V - 21W

Rear fog lamp (LHD) : 12V - 21W



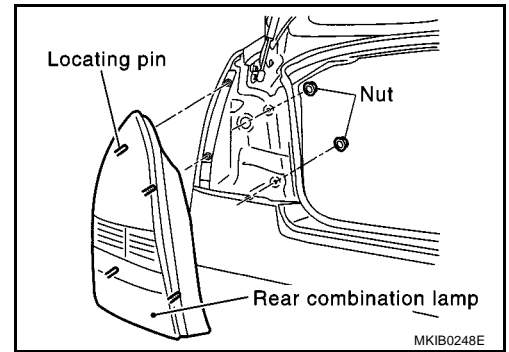
REAR COMBINATION LAMP

Removal and Installation

REMOVAL (SEDAN)

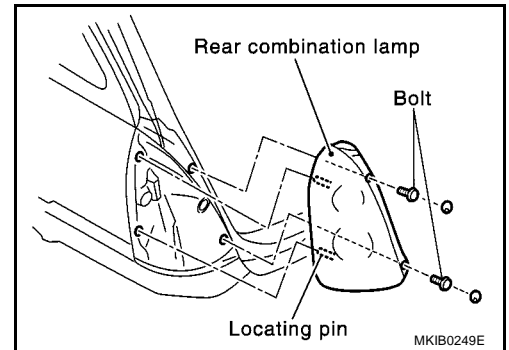
EKS00900

1. Open the trunk lid and remove wheel house finisher.
2. Remove rear combination lamp mounting nuts (2).
3. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (2).
4. Disconnect rear combination lamp connector.
5. From outside the vehicle, remove harness.



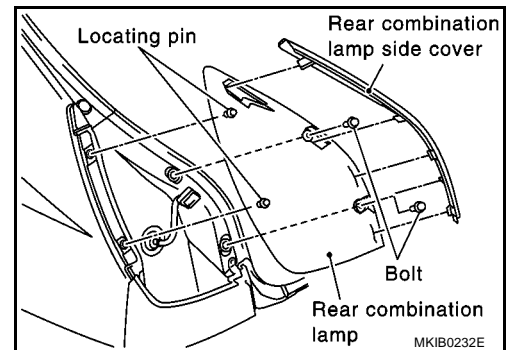
REMOVAL (WAGON)

1. Open the back door and remove rear combination lamp mounting bolts (2).
2. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (2).
3. Disconnect rear combination lamp connector.
4. From outside the vehicle, remove harness.



REMOVAL (HATCHBACK)

1. Open the back door and remove rear combination lamp side cover.
2. Remove rear combination lamp mounting bolts (2).
3. Pull rear combination lamp toward rear of vehicle. Disengage locating pins (2).
4. Disconnect rear combination lamp connector.
5. From outside the vehicle, remove harness.



INSTALLATION

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

Rear combination lamp mounting bolts and nuts:

-  : 2.5 - 3.8 N·m (0.25 - 0.39 kg-m, 23 - 33 in-lb) (SEDAN)
-  : 3.3 - 7.7 N·m (0.34 - 0.79 kg-m, 30 - 68 in-lb) (WAGON)
-  : 3.2 - 5.1 N·m (0.33 - 0.52 kg-m, 29 - 45 in-lb) (HATCHBACK)

COMBINATION SWITCH

COMBINATION SWITCH

PFP:25567

Removal and Installation

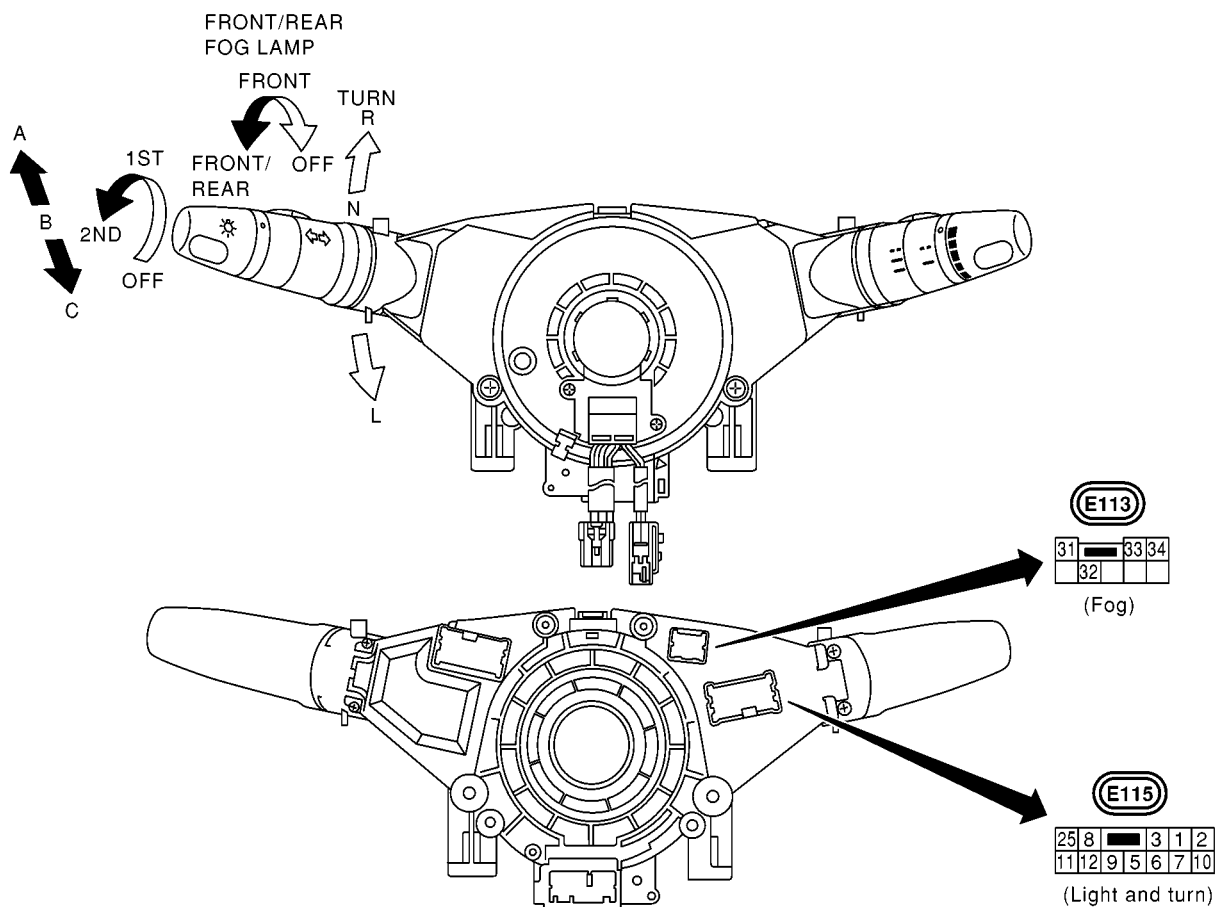
EKS00901

Refer to SRS section in P12 ESM (SM2E00-1P12E0E).

COMBINATION SWITCH

Switch Circuit Inspection

EKS00902



LIGHTING SWITCH
(With front and rear fog lamp)

	OFF			1ST			2ND		
	A	B	C	A	B	C	A	B	C
5									
6									
7									
8									
9									
10									
11									
12									

LIGHTING SWITCH
(With rear fog lamp)

	OFF			1ST			2ND		
	A	B	C	A	B	C	A	B	C
25									
5									
6									
7									
8									
9									
10									
11									
12									

FOG LAMP SWITCH
(With front and rear fog lamp)

	OFF	FR	FR+RR
31			
32			
33			

FOG LAMP SWITCH
(With rear fog lamp)

	OFF	RR
34		
33		

TURN SIGNAL SWITCH

	R	N	L
1			
2			
3			

MKWA0295E

COMBINATION SWITCH

Refer to [LT-60, "Switch Circuit Inspection"](#) in "LIGHTING AND TURN SIGNAL SWITCH" section, and [WW-8, "Terminal and Reference Values for Combination Switch"](#) , [WW-43, "Terminal and Reference Values for Combination Switch"](#) in " WW Wiper/Washer Horn" section for details.

ILLUMINATION

ILLUMINATION

PFP:27545

System Description

EKS00903

Power is supplied at all times

- through 10A fuse [No. 32, 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 aiming switch	E103	1	2
ESP off switch	M8	3	4
Hazard switch	M48	7	8
Combination meter (LHD models)	M36, M37	51, 52	24, 25, 45
Combination meter (RHD models)	M36, M37	38, 39	11, 12, 32
Audio	M51, M53	1	29
Heated seat switch LH	M104	5	6
Heated seat switch RH	M103	5	6
Door lock/unlock switch	M102	4	3
Glove box lamp	M71	2	1
Ashtray illumination	M57	1	2
AV and NAVI control unit	M54, M55	25	5
VFD Display	M61	20	18
LCD Display	M61	8	1, 3
Multifunction switch	M49	4	2

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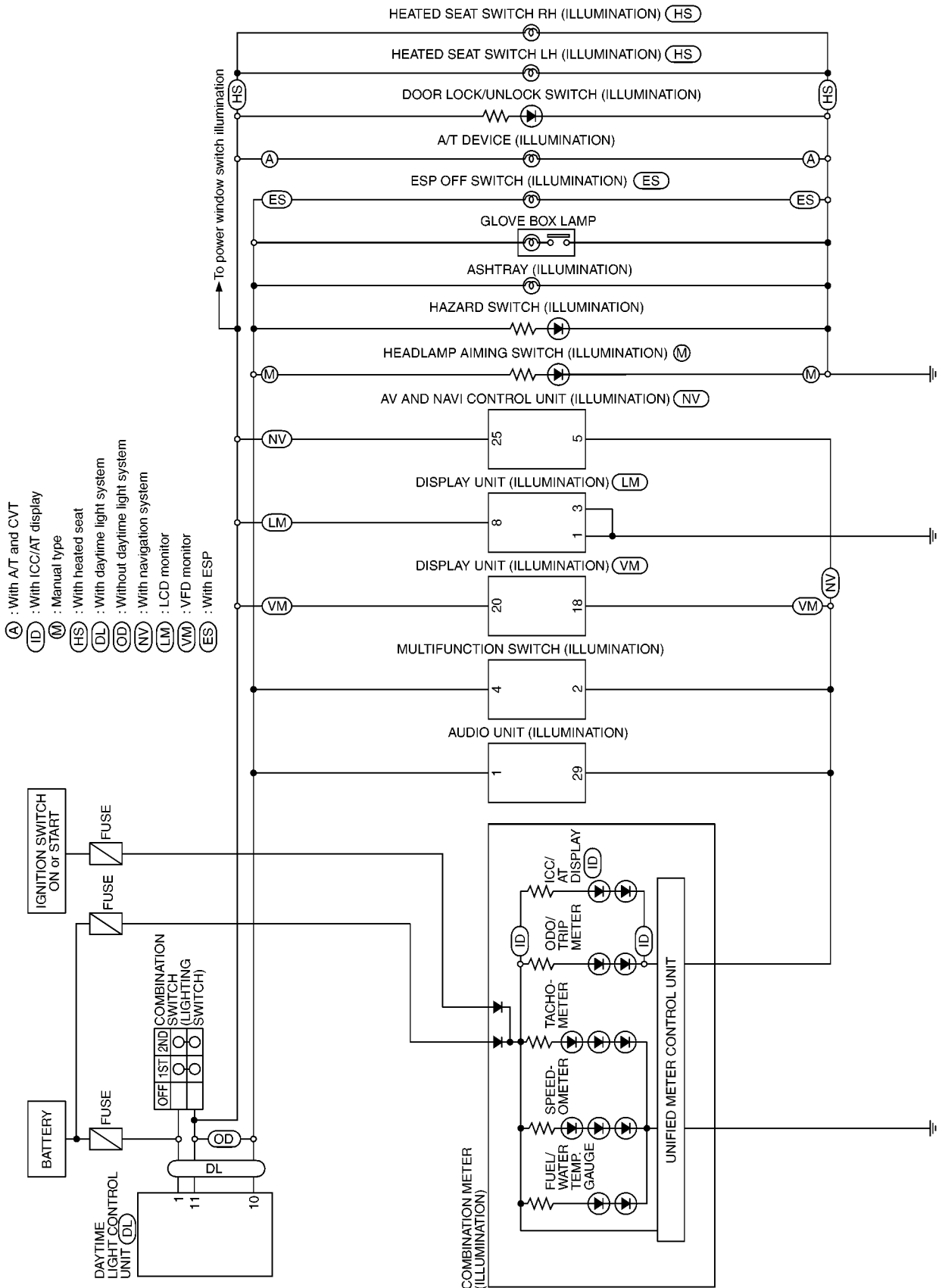
L

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ILLUMINATION

Schematic/Except for YD100kw, F9Q Engine Models

EKS009Q4



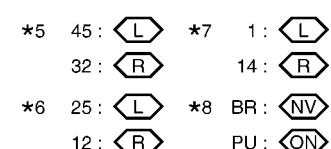
MKWA1117E

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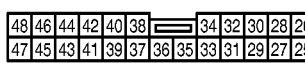
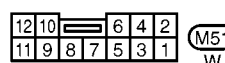
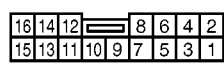
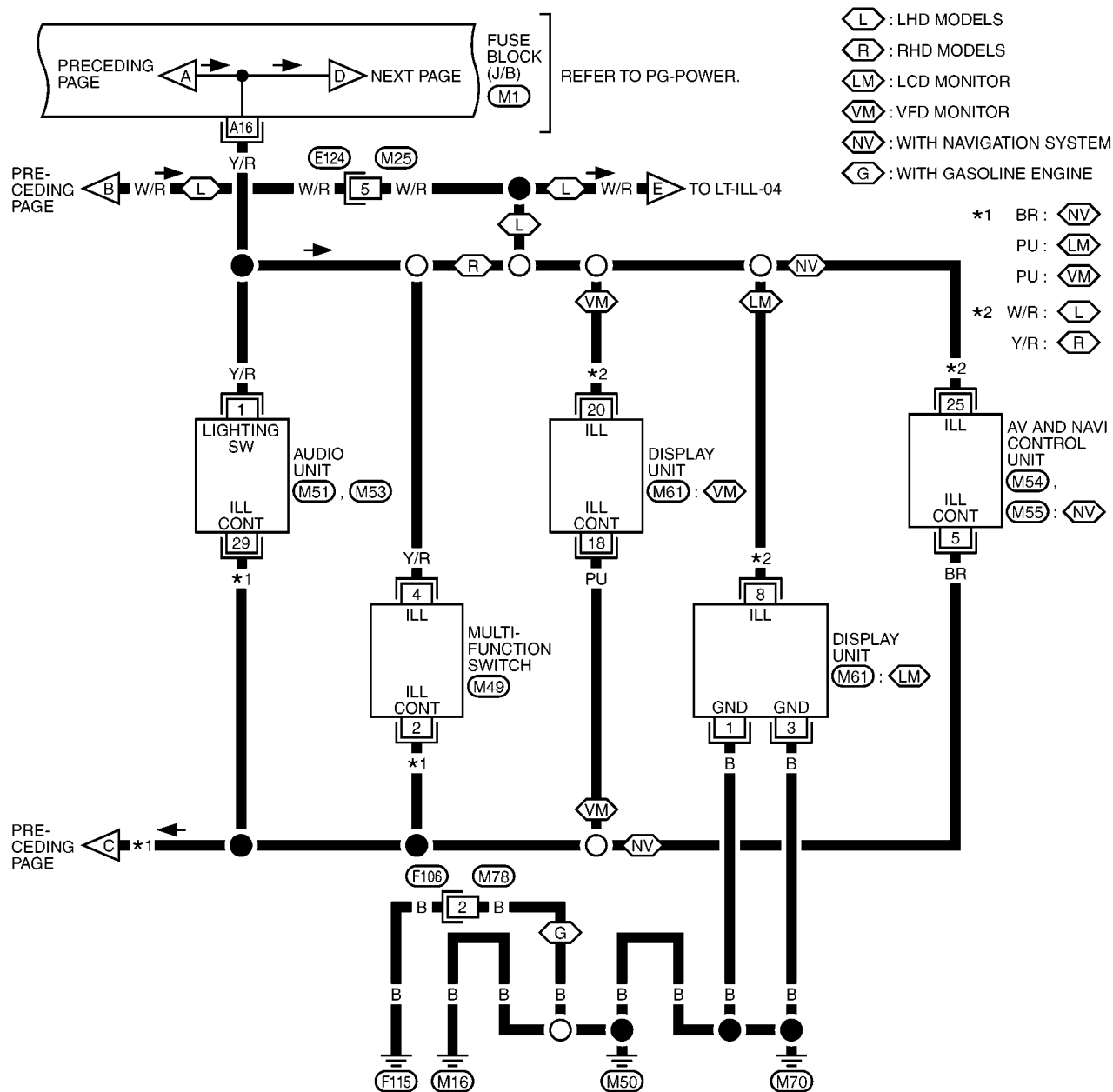
EK.S00905



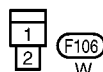
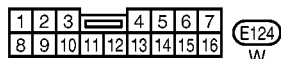
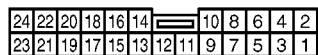
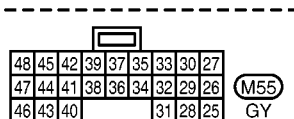
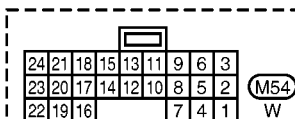
-FUSE BLOCK-
JUNCTION BOX (J/B)



LT-ILL-02



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



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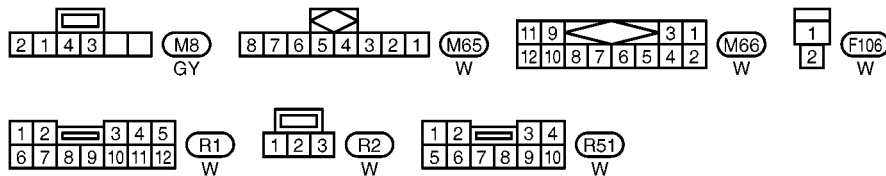
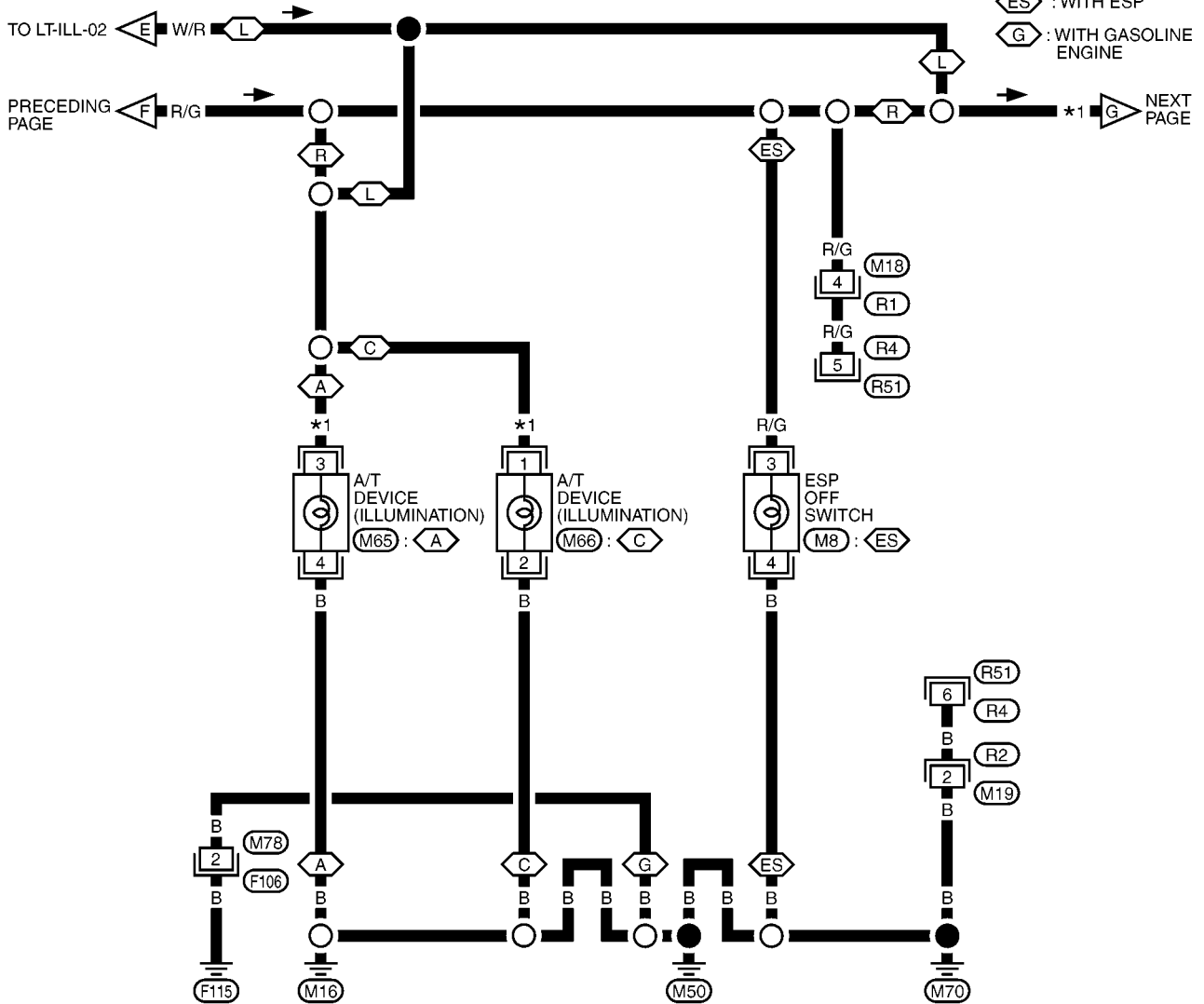
LT



ILLUMINATION

LT-ILL-04

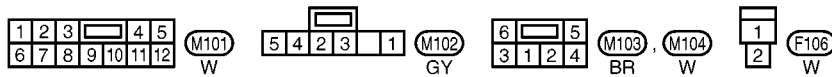
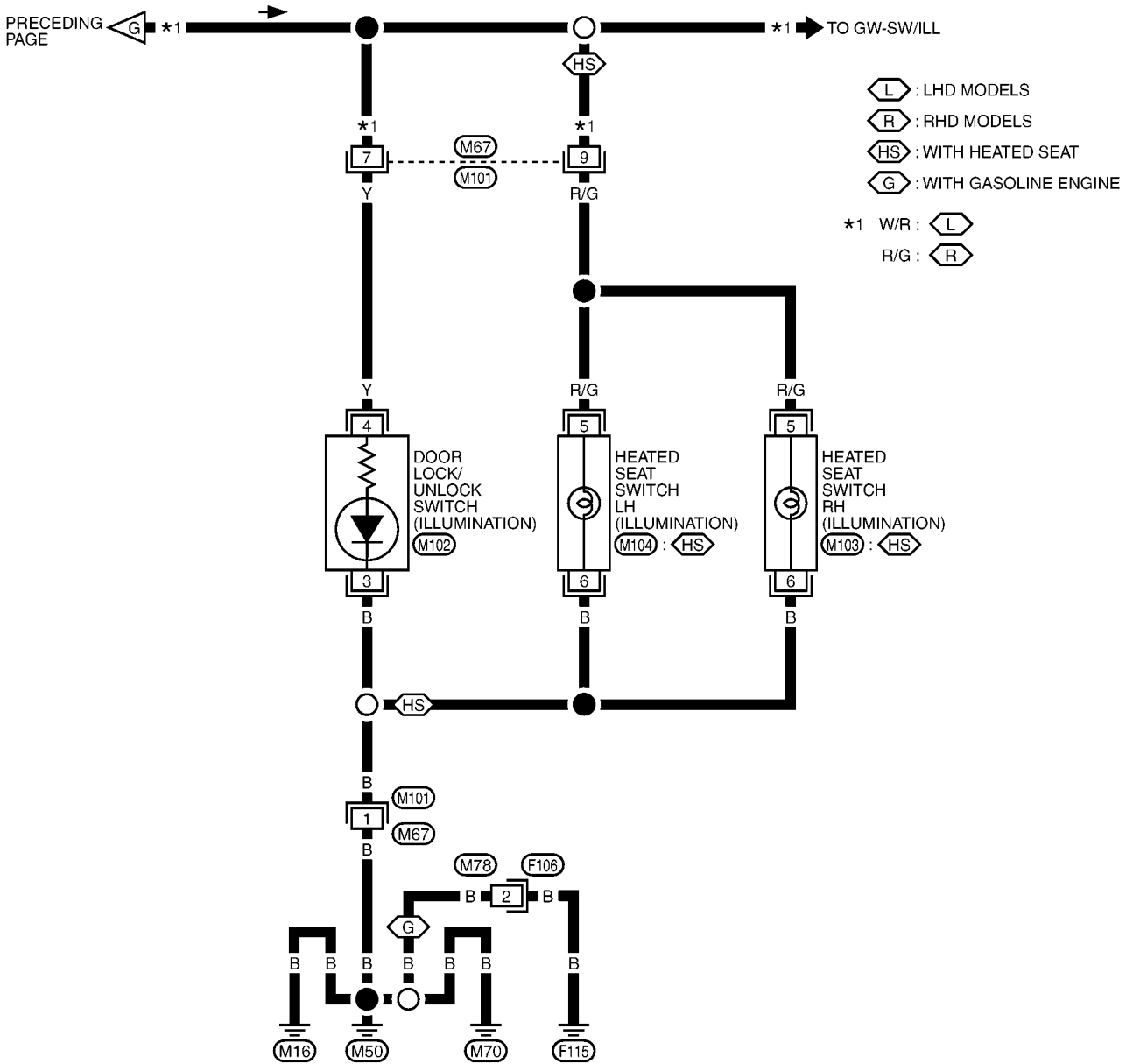
- *1 W/R : L : LHD MODELS
 R/G : R : RHD MODELS
 A : WITH A/T
 C : WITH CVT
 ES : WITH ESP
 G : WITH GASOLINE ENGINE



MKWA1121E

ILLUMINATION

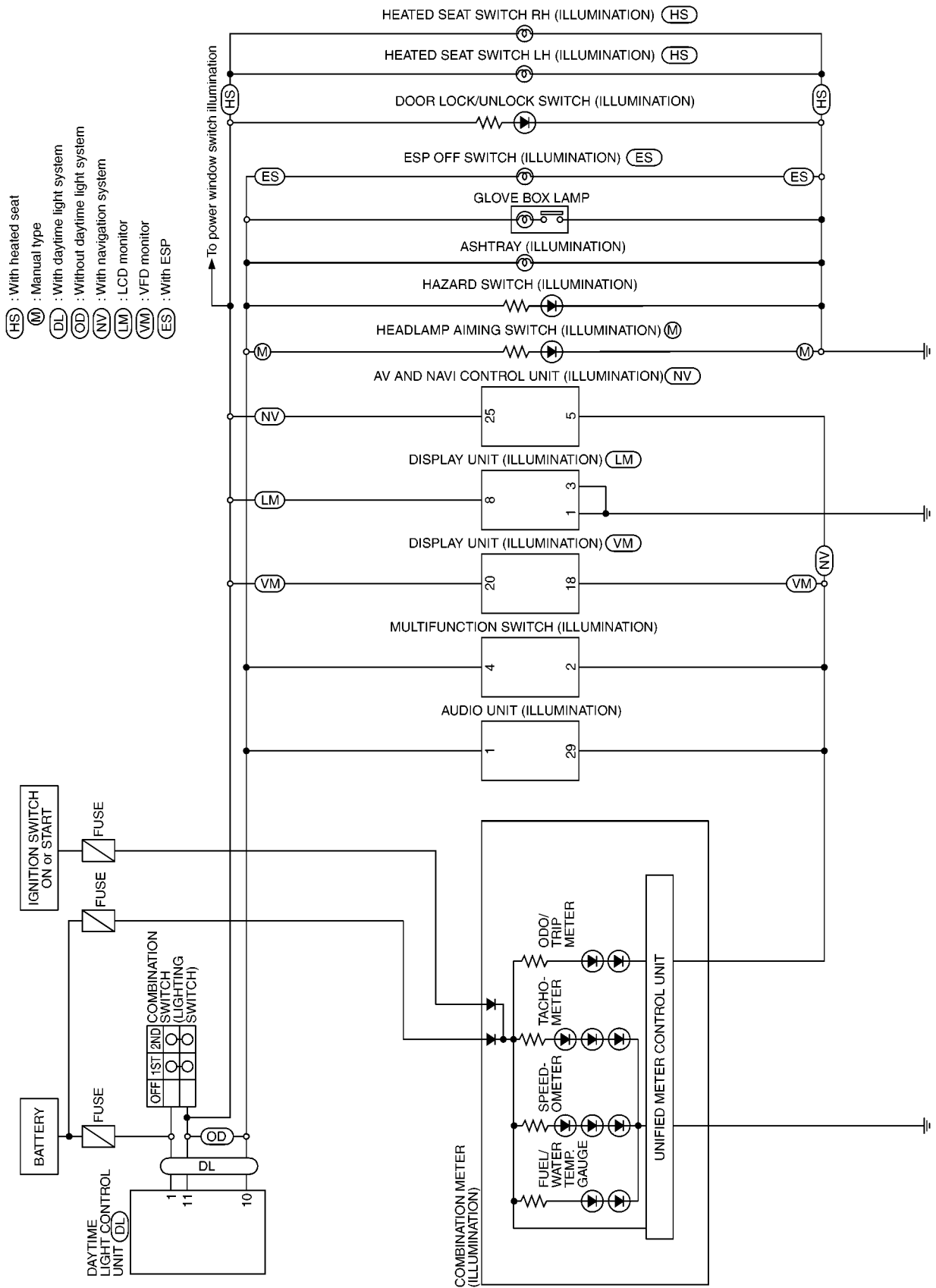
LT-ILL-05



ILLUMINATION

Schematic/YD100kw, F9Q Engine Models

EKS00ATG



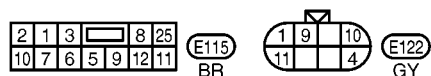
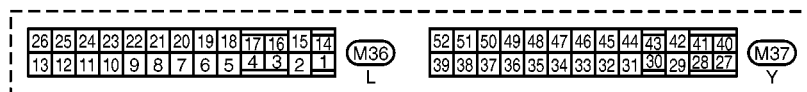
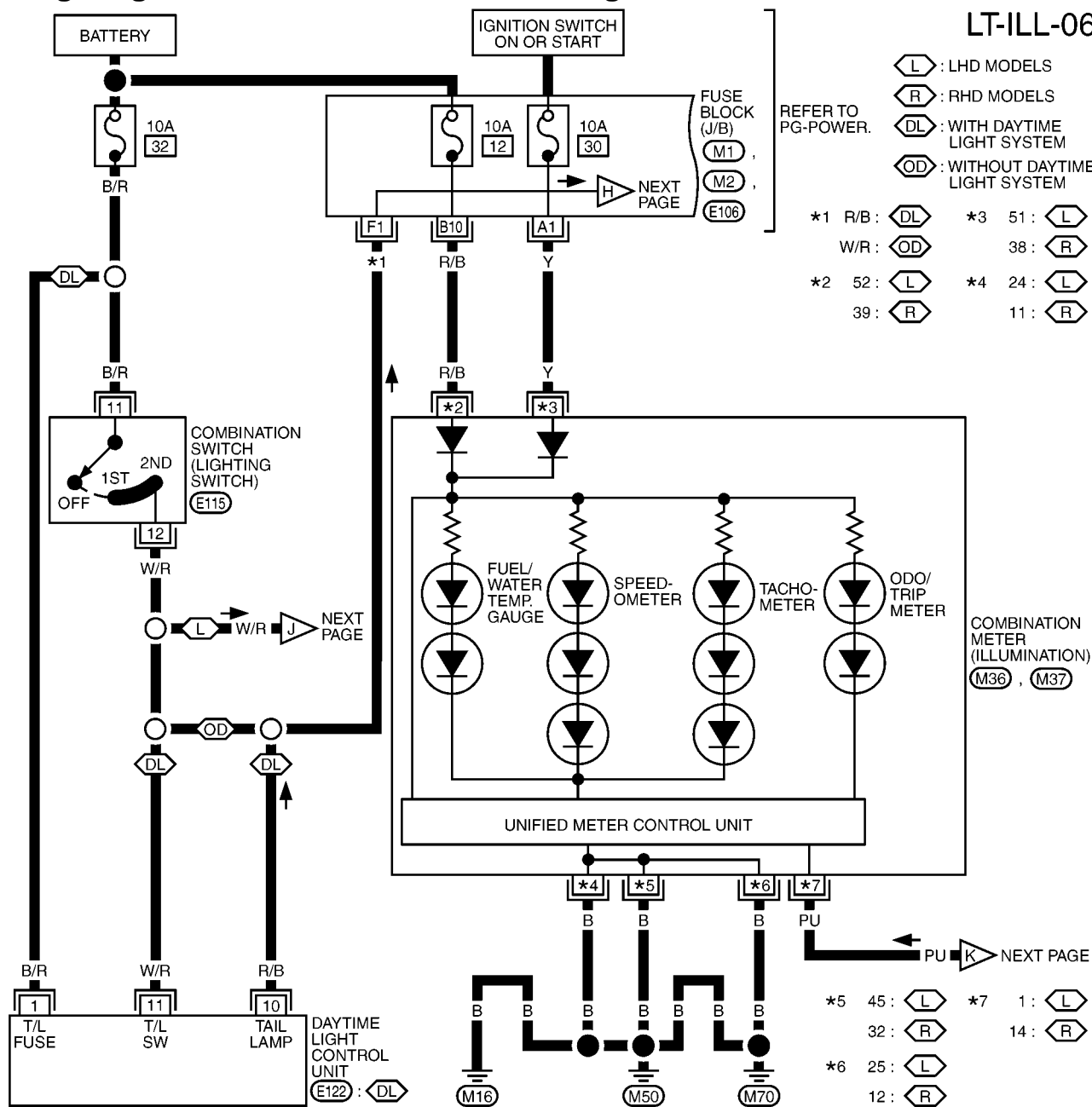
MKWA1123E

ILLUMINATION

Wiring Diagram — ILL —/YD100kw, F9Q Engine Models

EKS00ATH

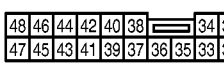
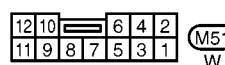
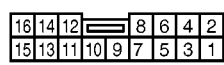
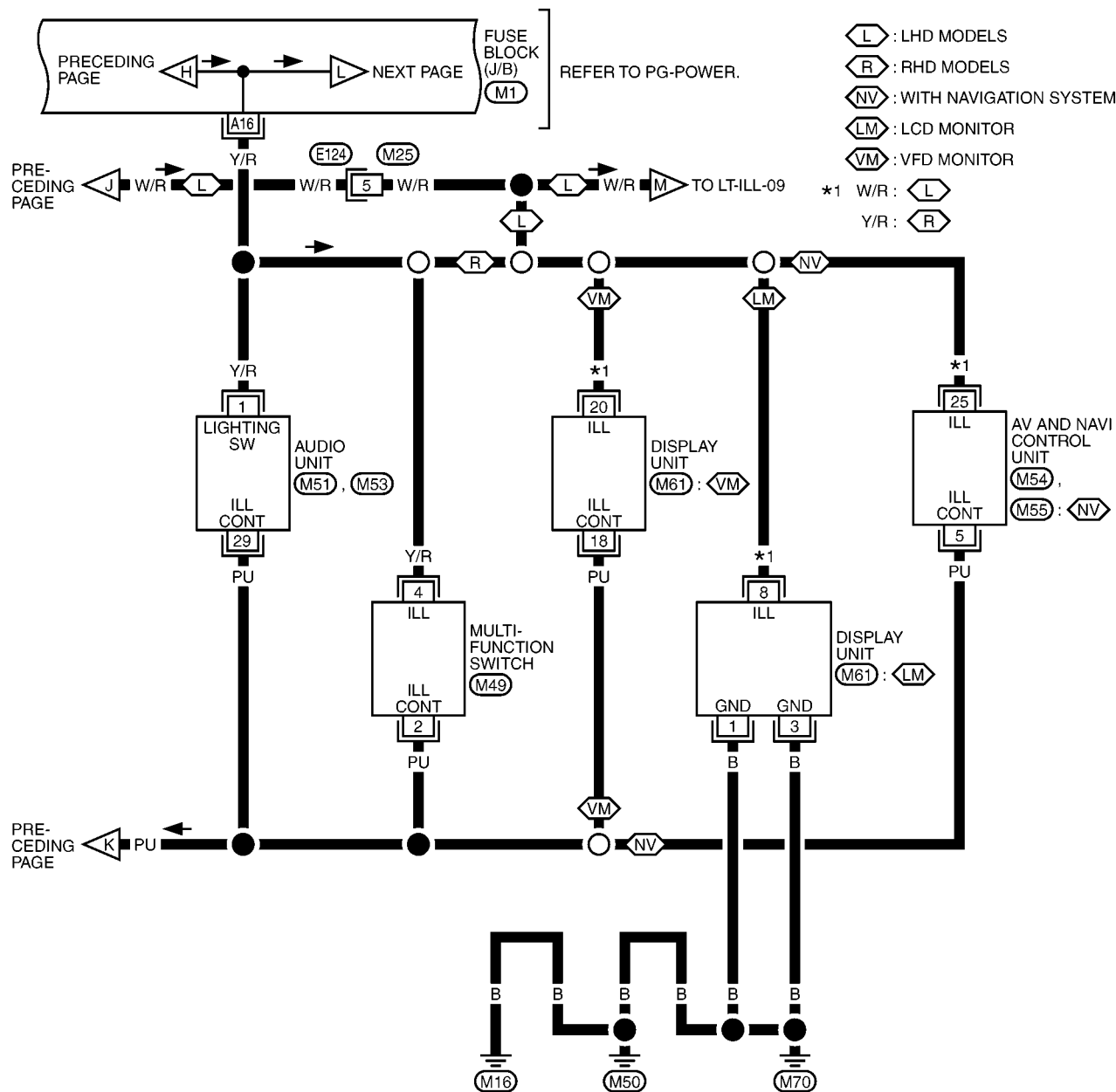
LT-ILL-06



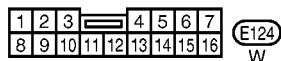
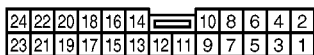
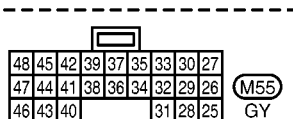
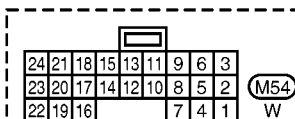
REFER TO THE FOLLOWING.

(M1), (M2), (E106)

-FUSE BLOCK-
JUNCTION BOX (J/B)



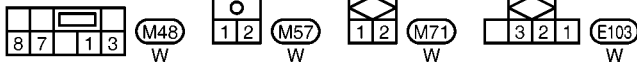
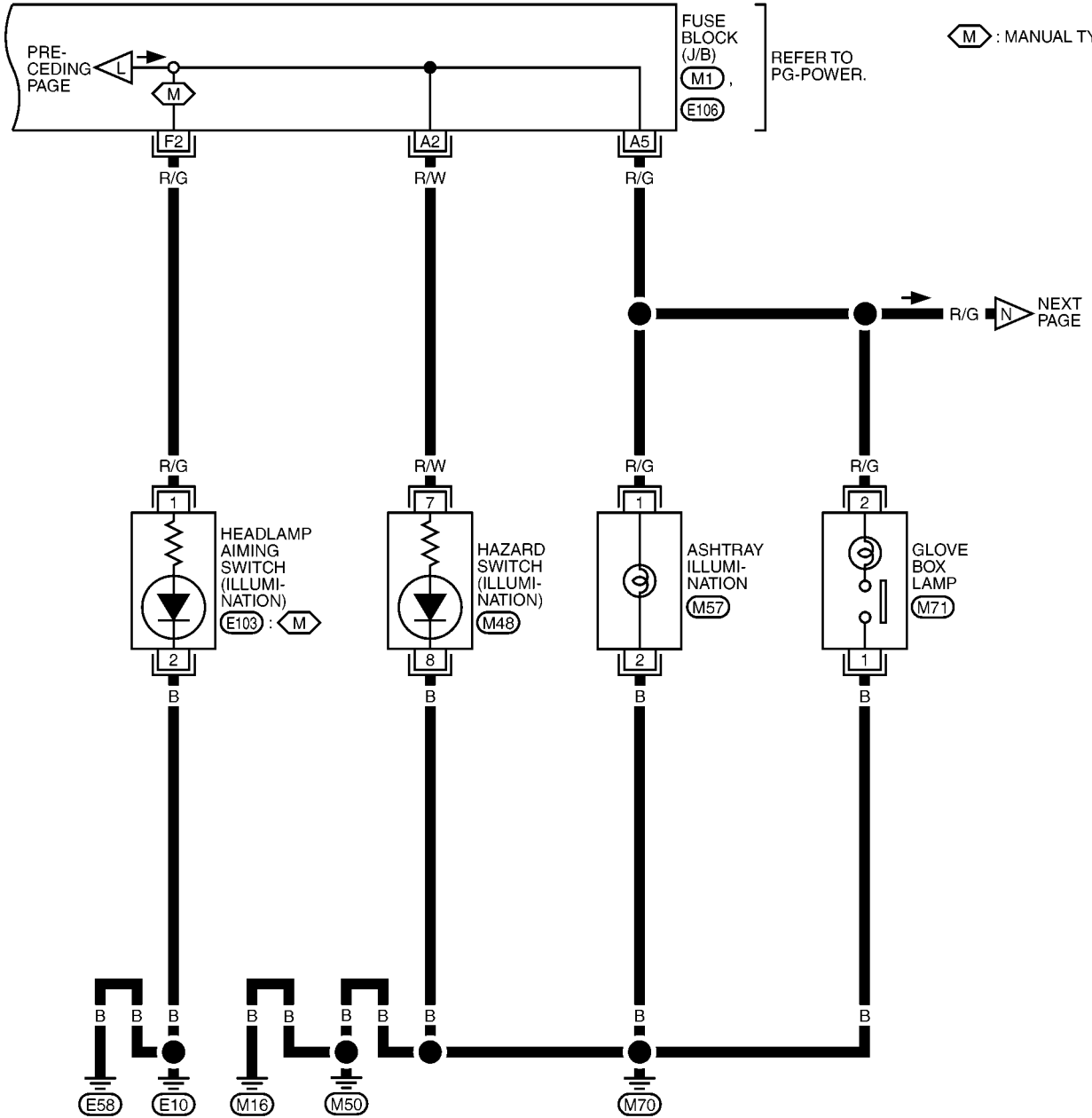
REFER TO THE FOLLOWING.
(M1) - FUSE BLOCK-
JUNCTION BOX (J/B)



ILLUMINATION

LT-ILL-08

(M) : MANUAL TYPE



REFER TO THE FOLLOWING.
(M1), (E106) - FUSE BLOCK -
JUNCTION BOX (J/B)

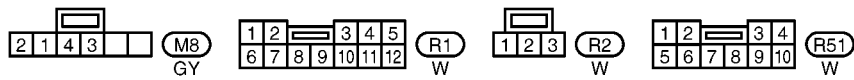
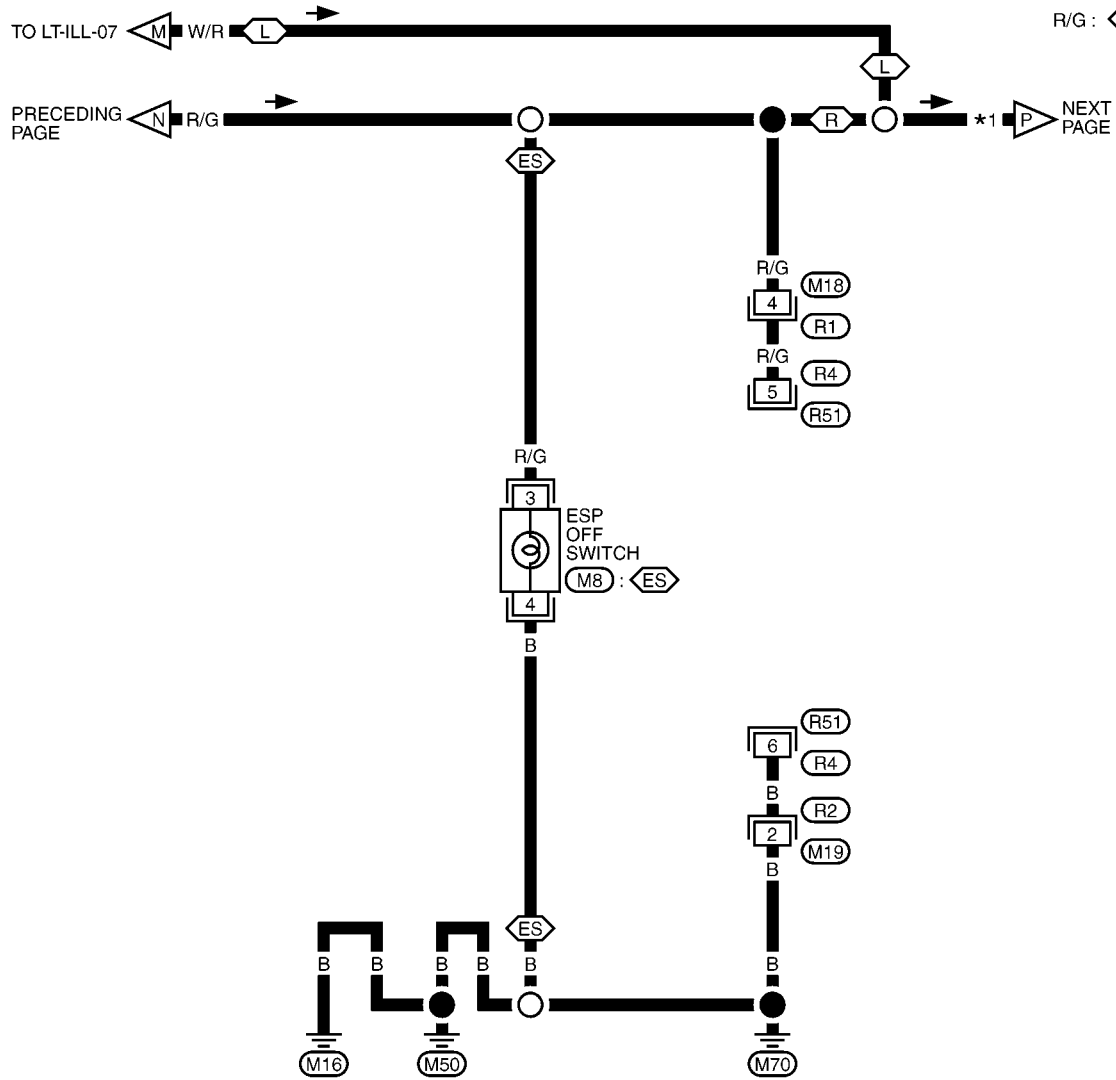
MKWA1126E

ILLUMINATION

LT-ILL-09

(L) : LHD MODELS
 (R) : RHD MODELS
 (ES) : WITH ESP

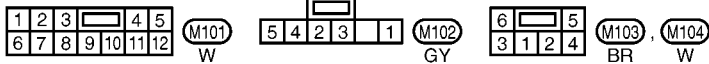
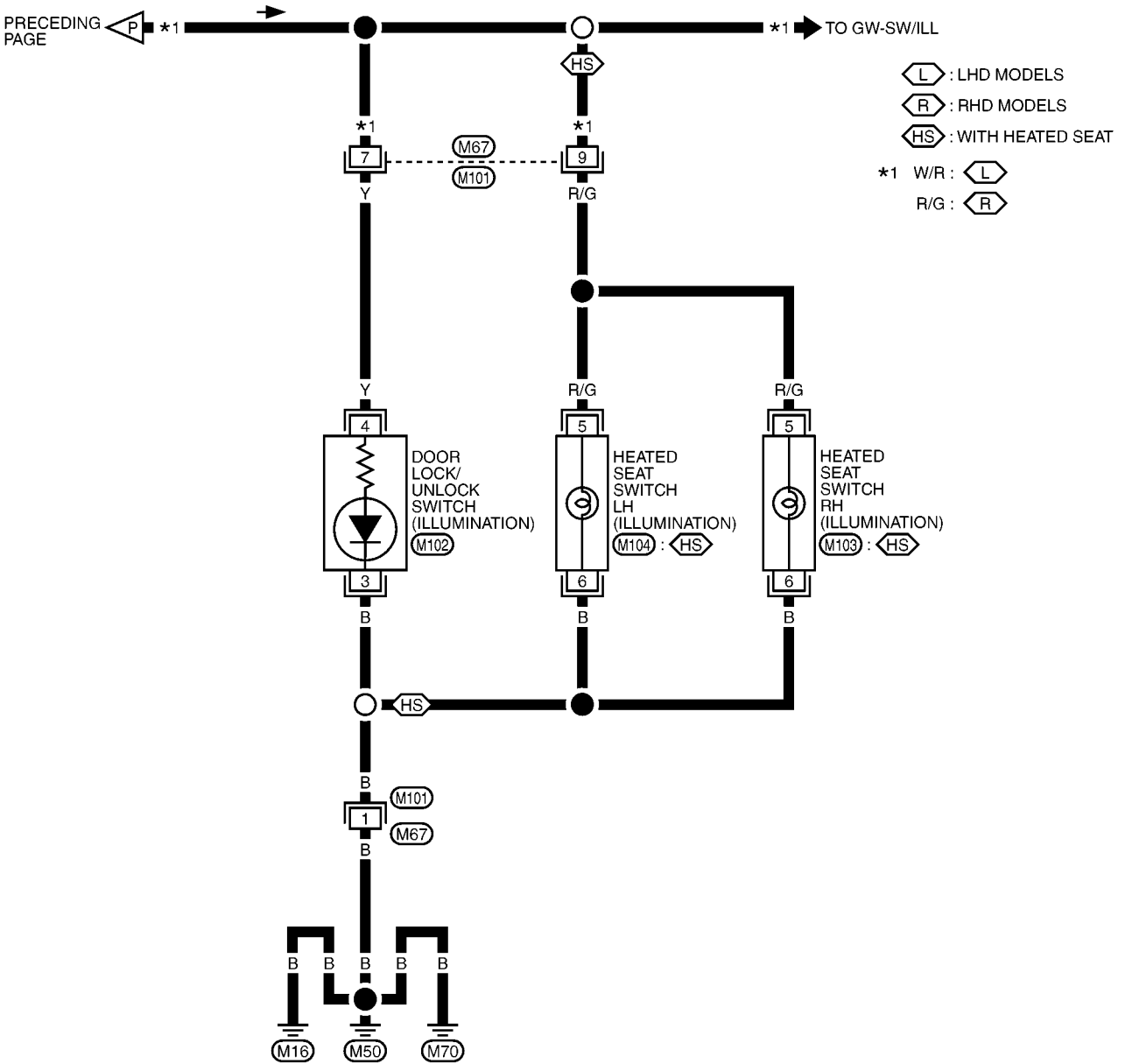
*1 W/R: (L)
 R/G: (R)



MKWA1127E

ILLUMINATION

LT-ILL-10



MKWA1128E

INTERIOR ROOM LAMP

PFP:26410

System Description

EKS00906

Power is supplied at all times:

- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to key switch terminal 1 and
- to smart entrance control unit terminal 56, and
- through 10A fuse [No. 13, located in the fuse block (J/B)]
- to interior room lamp terminal 3,
- to keyhole illumination terminal 2 and
- to each door step lamps terminal 1.

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

- through key switch terminal 2
- to smart entrance control unit terminal 5.

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

- through 10A fuse [No. 10, located in the fuse block (J/B)]
- to smart entrance control unit terminal 29.

Ground is supplied:

- to smart entrance control unit terminal 53
- through body grounds M16, M50 and M70.

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

- to smart entrance control unit terminals 39, 43, 44 and 45
- to each door switch terminal 1
- through case ground of each door switch.

When the driver side door is unlocked by the door lock/unlock switch, the smart entrance control unit receives a ground signal:

- to smart entrance control unit terminal 14
- to door lock/unlock switch terminal 2
- to door lock/unlock switch terminal 3
- through body grounds M16, M50 and M70.

When the driver side door is locked by the door lock/unlock switch, the smart entrance control unit receives a ground signal:

- to smart entrance control unit terminal 13
- to door lock/unlock switch terminal 1
- to door lock/unlock switch terminal 3
- through body grounds M16, M50, and M70.

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

- to interior room lamp terminal 2
- through smart entrance control unit terminal 28.

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

SWITCH OPERATION

When interior room lamp switch is ON, ground is supplied:

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

INTERIOR ROOM LAMP TIMER OPERATION

When interior room lamp switch is in the "DOOR" position, the time control unit keeps the interior room lamp illuminated for about 30 seconds when:

- unlock signal is supplied from driver's door lock/unlock switch while all doors are closed and key is out of ignition key cylinder,

INTERIOR ROOM LAMP

- unlock signal is supplied from remote controller while all doors are closed and key is out of the ignition key cylinder,
- key is removed from ignition key cylinder while all doors are closed, or
- 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.)

However, ignition keyhole illumination remains on for about 30 seconds after driver’s door has been locked. The timer is canceled when:

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

ON-OFF CONTROL

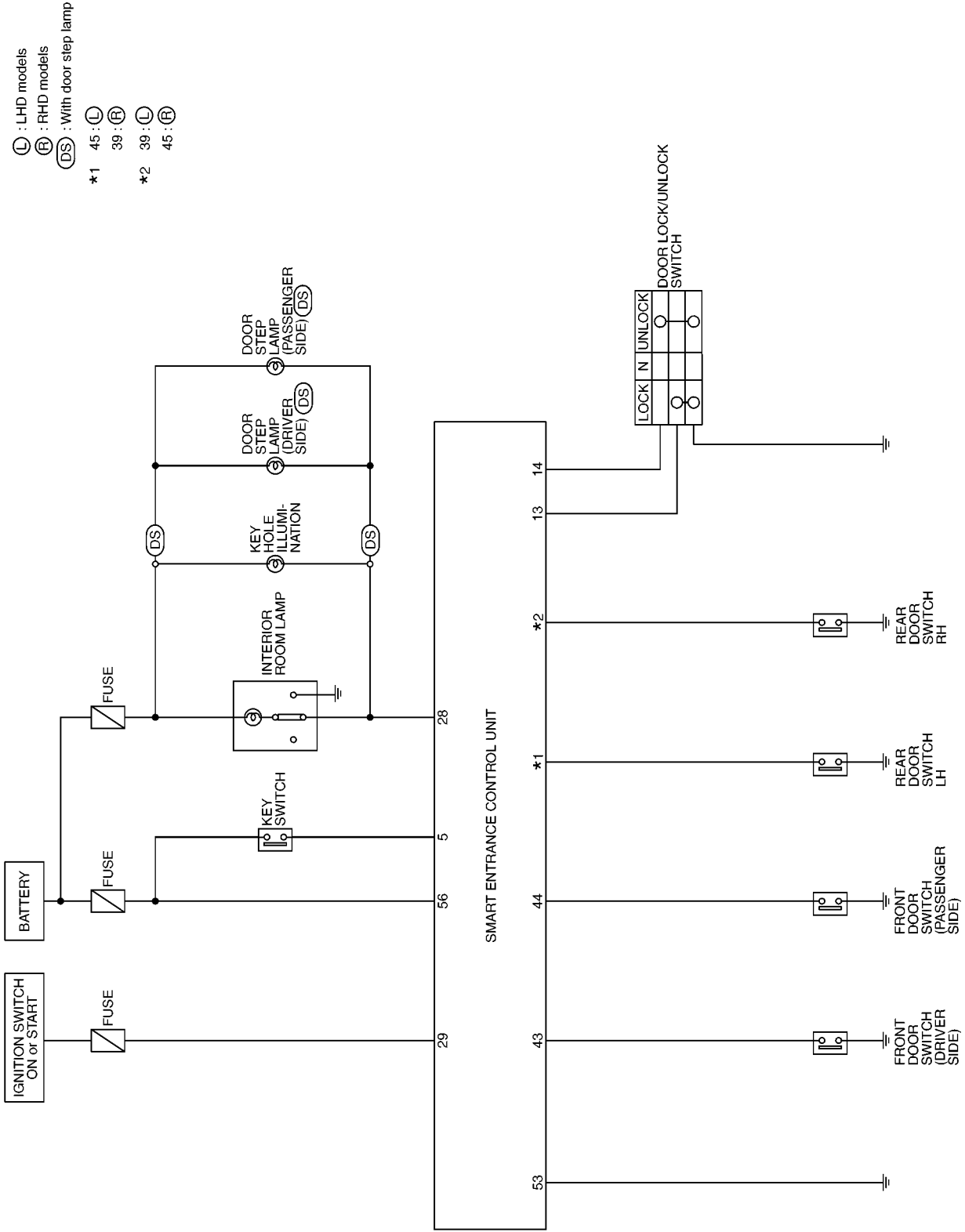
When the driver side door, front passenger door, rear LH or RH door is opened, the interior room lamp turns on while the interior room lamp switch is in the “DOOR” position. When any door is opened, step lamps turn ON.

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

INTERIOR ROOM LAMP

Schematic

EKS00907



MKWA1129E

INTERIOR ROOM LAMP

Wiring Diagram — ROOM/L —/LHD MODELS

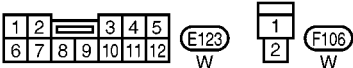
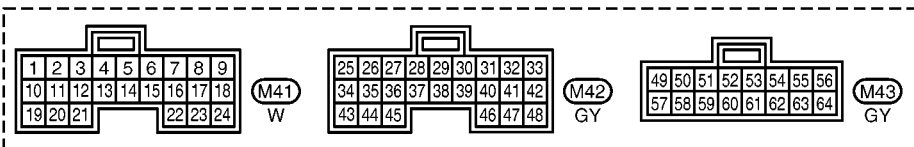
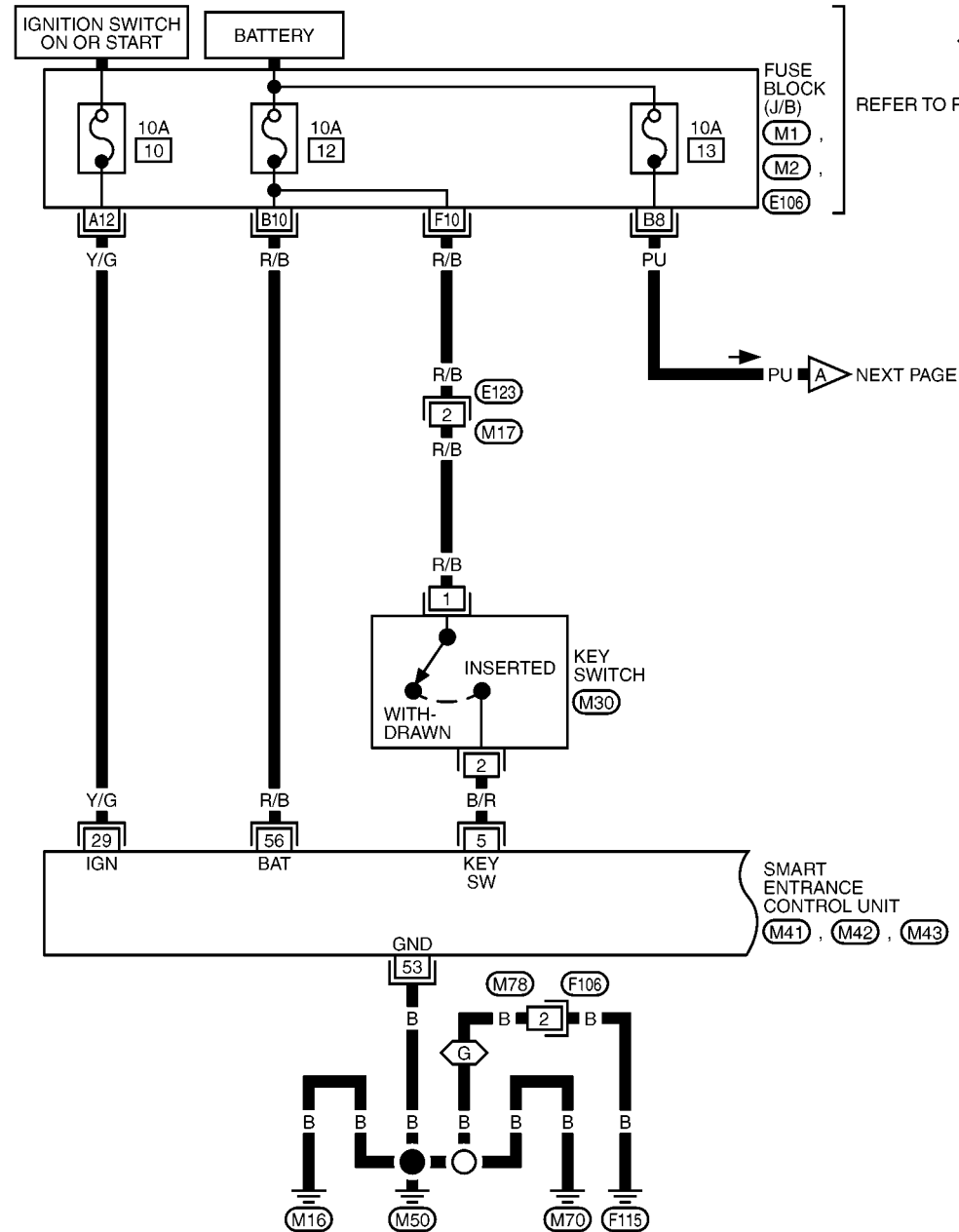
EKS00908

LT-ROOM/L-01

⬡G⬡ : WITH GASOLINE ENGINE

REFER TO PG-POWER.

A
B
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I
J
LT
L
M



REFER TO THE FOLLOWING.

M1, M2, E106

-FUSE BLOCK-

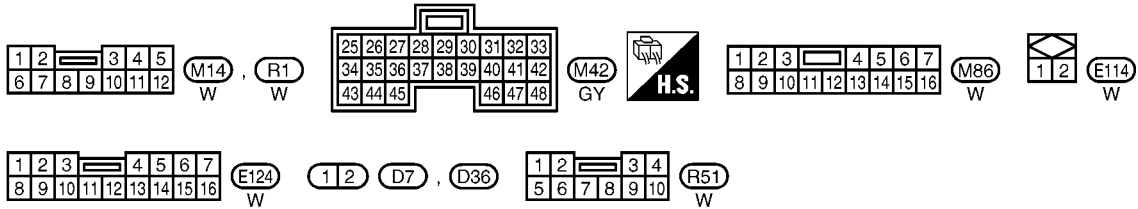
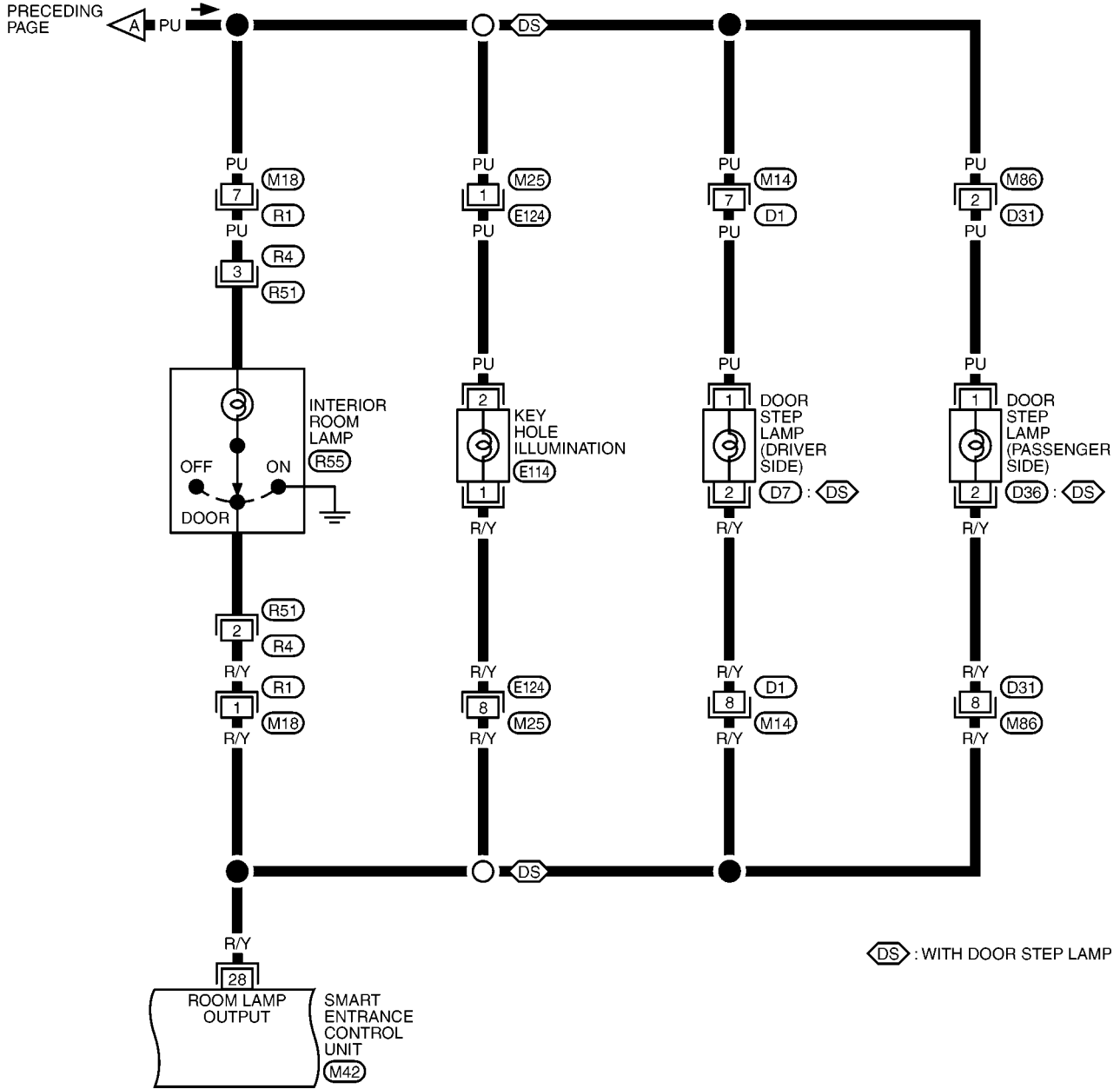
JUNCTION BOX (J/B)



MKWA1130E

INTERIOR ROOM LAMP

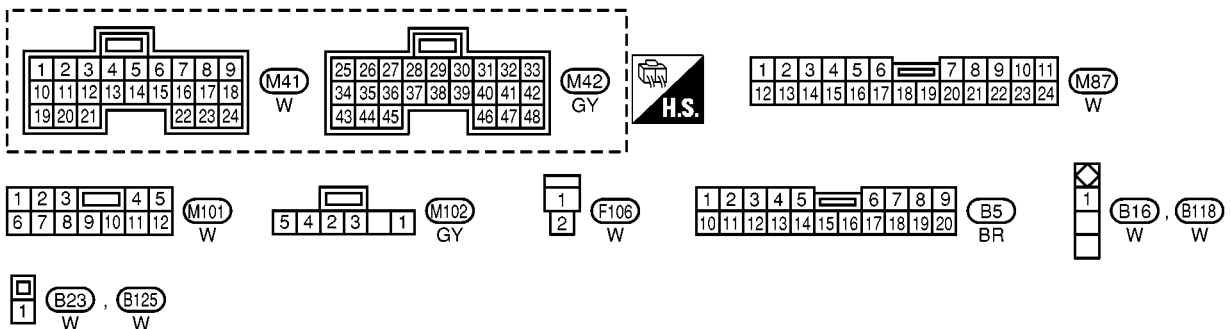
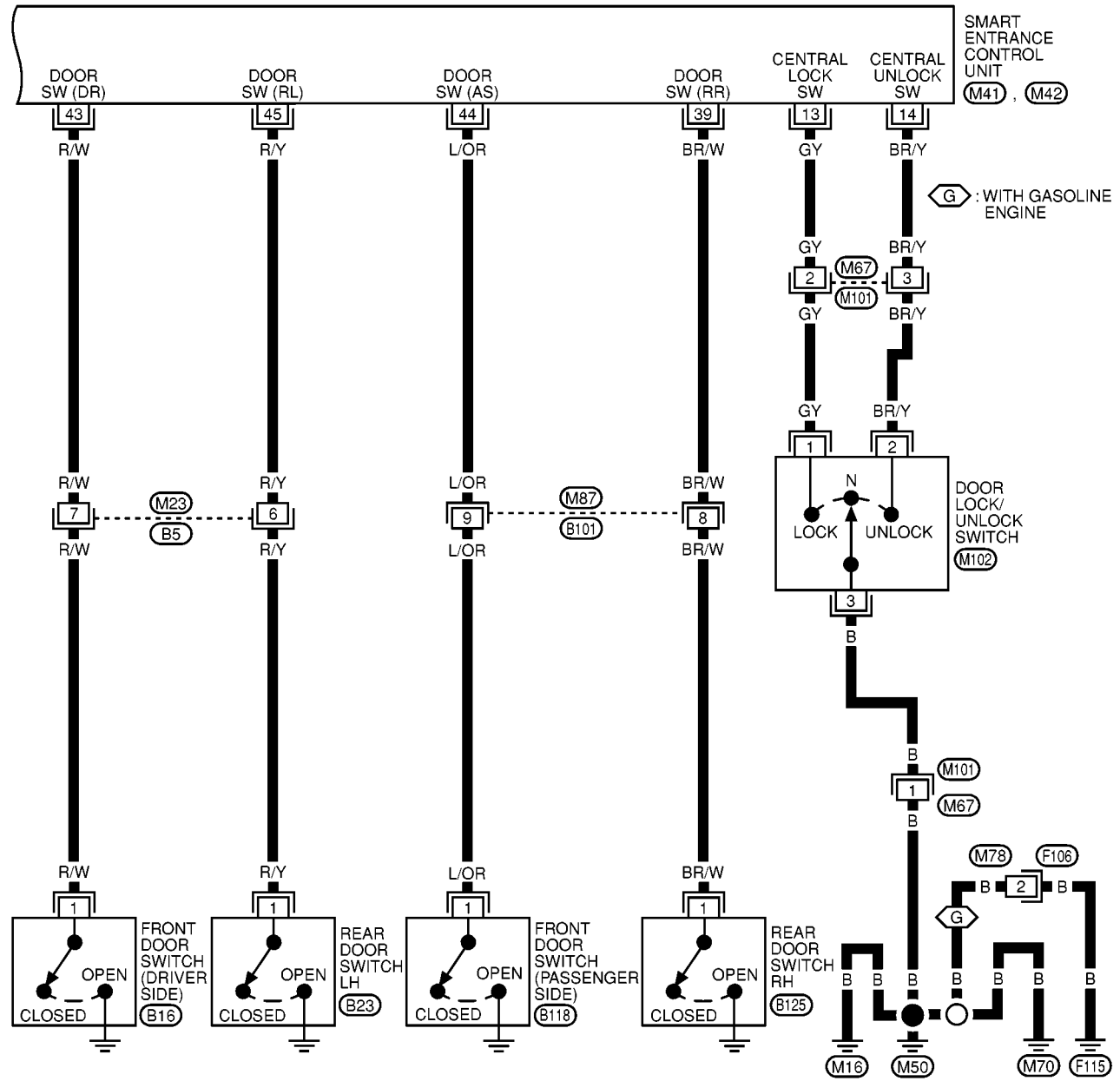
LT-ROOM/L-02



INTERIOR ROOM LAMP

LT-ROOM/L-03

A
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I
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K
L
M



MKWA0608E

INTERIOR ROOM LAMP

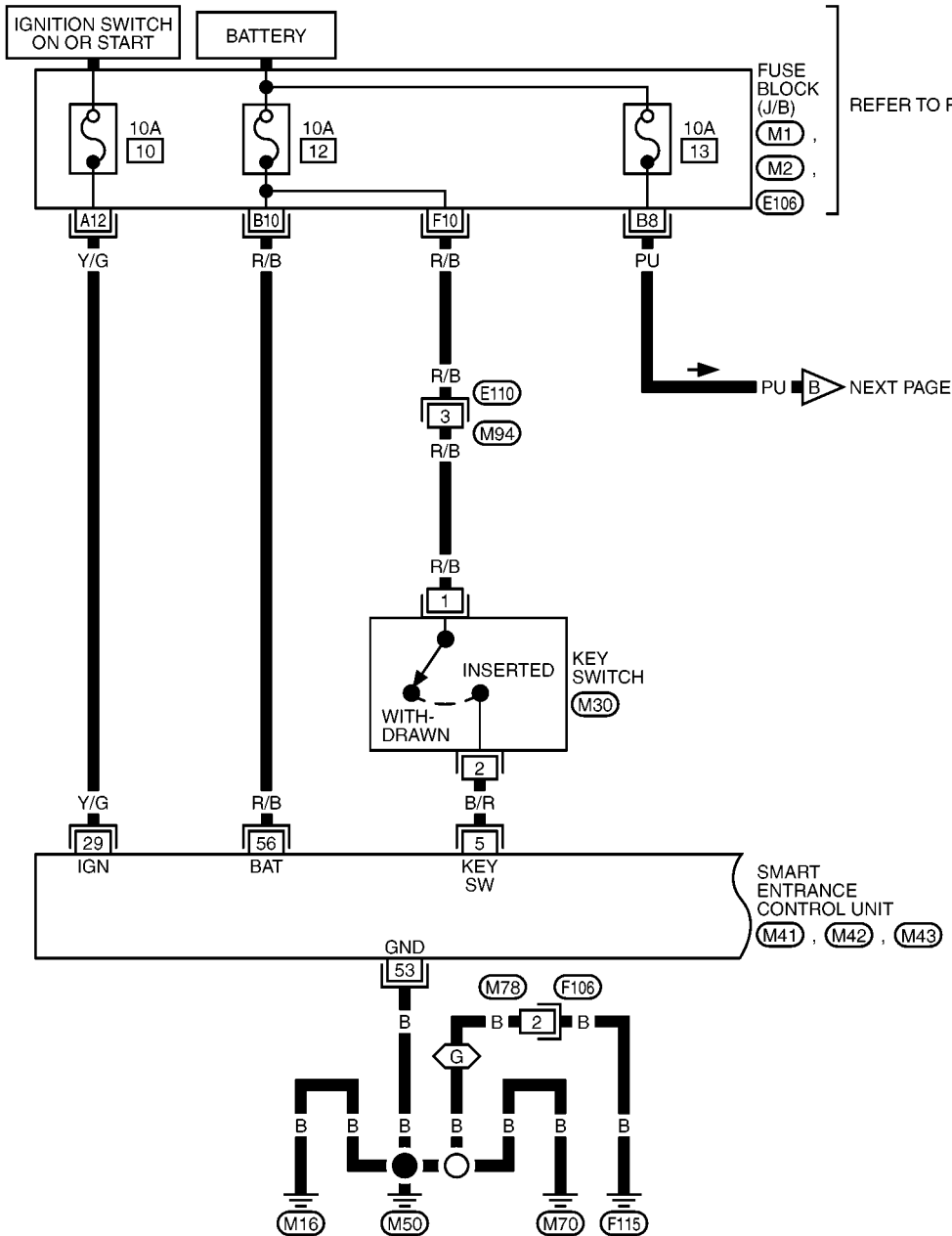
Wiring Diagram — ROOM/L —/RHD MODELS

EKS00909

LT-ROOM/L-04

 : WITH GASOLINE ENGINE

REFER TO PG-POWER.

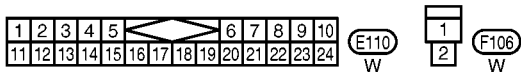
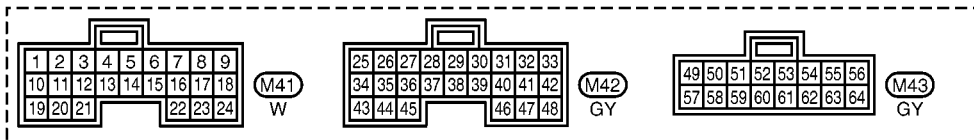


REFER TO THE FOLLOWING.

(M1), (M2), (E106)

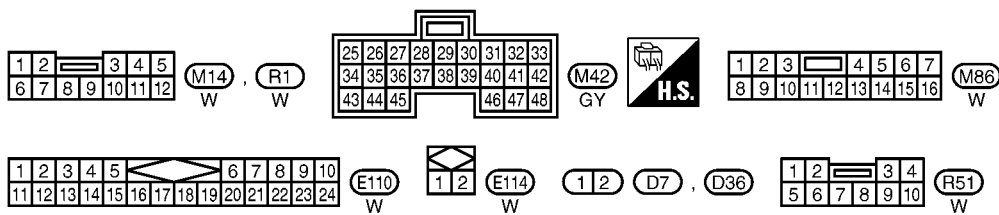
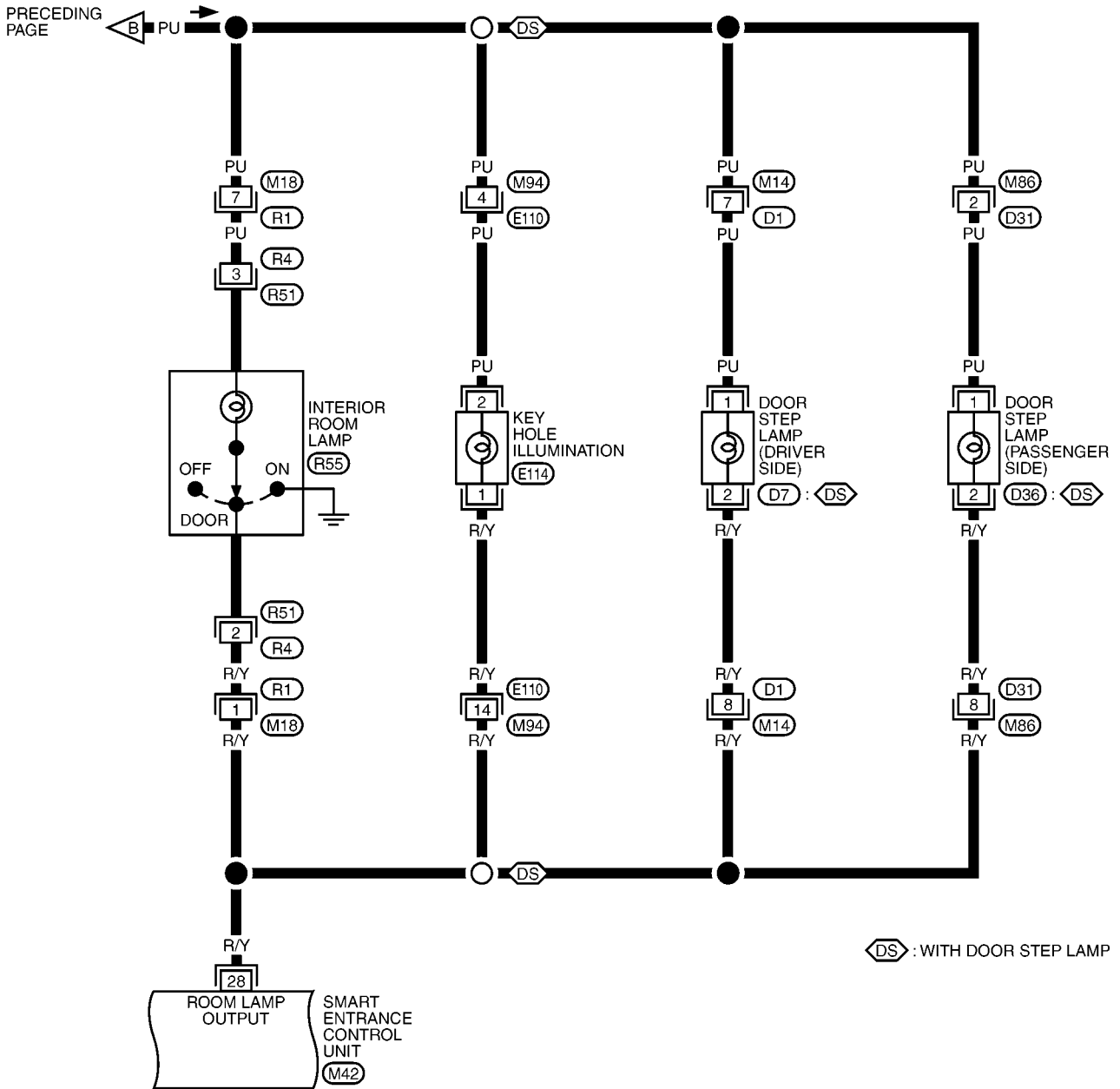
- FUSE BLOCK -

JUNCTION BOX (J/B)



MKWA1132E

LT-ROOM/L-05

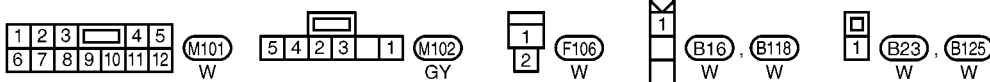
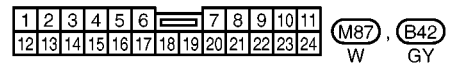
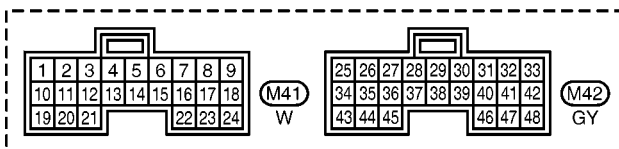
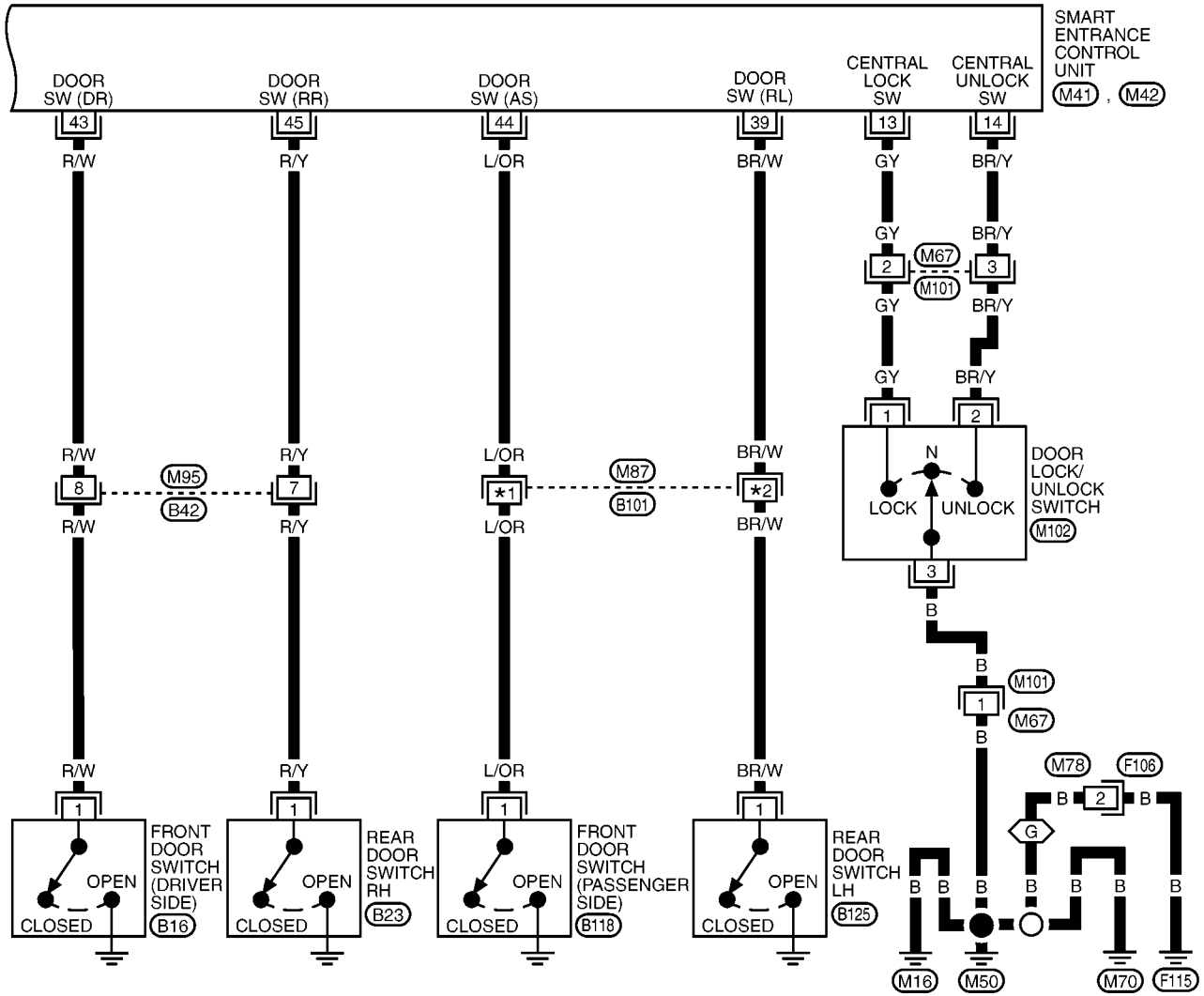


INTERIOR ROOM LAMP

LT-ROOM/L-06

(ES) : WITH ESP
 (OE) : WITHOUT ESP
 (G) : WITH GASOLINE ENGINE

*1 11: (ES) *2 24: (ES)
 9: (OE) 8: (OE)



MKWA1134E

INTERIOR ROOM LAMP

Terminal and Reference Valve for Smart Entrance Control Unit

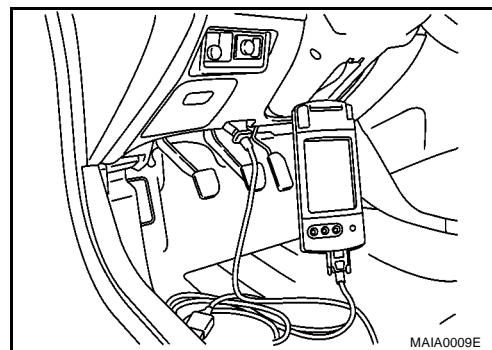
EKS0090A

Terminal No.	Wire color	Connections	Condition	Voltage (V) (Approx.)
5	B/R	Key switch	Key inserted to key cylinder (ON) → Key removed from ignition key cylinder (OFF)	Battery voltage → 0
13	GY	Door lock/unlock switches	Neutral → Locks	Battery voltage → 0
14	BR/Y	Door lock/unlock switches	Neutral → Unlocks	Battery voltage → 0
28	R/Y	Interior room lamp	When interior lamp is operated using remote controller (Lamp switch in "DOOR" position)	Battery voltage → 0
29	Y/G	IGN power supply	Ignition key is (ON or START position)	Battery voltage
39	BR/W	Rear door switch (LH or RH)	Rear door LH or RH: Open → Closed	0 → Battery voltage
43	R/W	Front door switch (Driver side)	Front door (Driver side): Open → Closed	Battery voltage → 0
44	L/OR	Front door switch (Passenger side)	Front door (Passenger side): Open → Closed	0 → Battery voltage
45	R/Y	Rear door switch (LH or RH)	Rear door LH or RH: Open → Closed	0 → Battery voltage
53	B	Ground	—	0
56	R/B	BAT power supply	—	Battery voltage

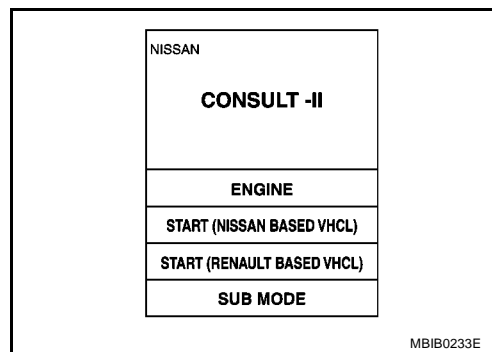
CONSULT-II Inspection Procedure "ROOM LAMP"

EKS0090B

1. Turn ignition switch "OFF".
2. Connect "CONSULT-II" to the data link connector.

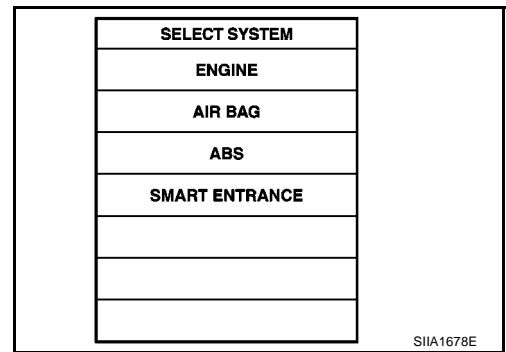


3. Turn ignition switch "ON".
4. Touch "START (NISSAN BASED VHCL)".

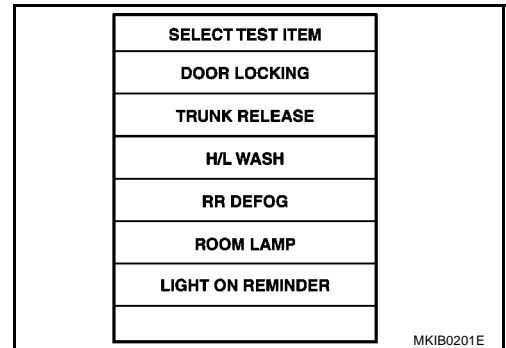


INTERIOR ROOM LAMP

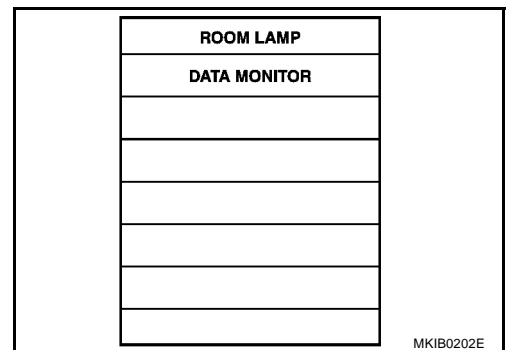
5. Touch "SMART ENTRANCE".



6. Touch "ROOM LAMP".



7. Select diagnosis mode.
"DATA MONITOR" are available for "ROOM LAMP".



CONSULT-II Application Items ROOM LAMP

EKS0090C

Data Monitor Mode

Item (CONSULT-II screen terms)	Diagnosed system
IGNITION SW	Indicates [ON/OFF] condition of ignition switch.
KEY IN DETECT	Indicates [ON/OFF] condition of electronic key switch.
DOOR SW DR RR	Indicates [ON/OFF] condition of rear door switch (driver side).
DOOR SW AS RR	Indicates [ON/OFF] condition of rear door switch (passenger side).
AS DOOR SW	Indicates [ON/OFF] condition of front door switch (passenger side).
DR DOOR SW	Indicates [ON/OFF] condition of front door switch (driver side).
CDL LOCK SW	Indicates [ON/OFF] condition of door lock/unlock switch (lock signal).
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock/unlock switch (unlock signal).
RKE LOCK	Indicates [ON/OFF] condition of lock signal from remote controller.
RKE UNLOCK	Indicates [ON/OFF] condition of unlock signal from remote controller.
RKE SEL UNLOCK	Indicates [ON/OFF] condition of select unlock signal from remote controller.

INTERIOR ROOM LAMP

Interior Room Lamp Timer Does Not Operate

EKS0090D

1. CHECK IGNITION ON SIGNAL

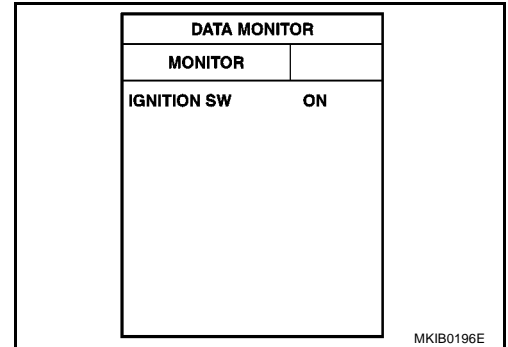
WITH CONSULT-II

Check ignition switch ON signal ("IGNITION SW") in "DATA MONITOR" mode with CONSULT-II.

IGNITION SW

Turn ignition switch ON : ON

Turn ignition switch OFF : OFF



WITHOUT CONSULT-II

1. Turn ignition switch ON.
2. Check voltage between smart entrance control unit harness connector terminal 29 and ground.

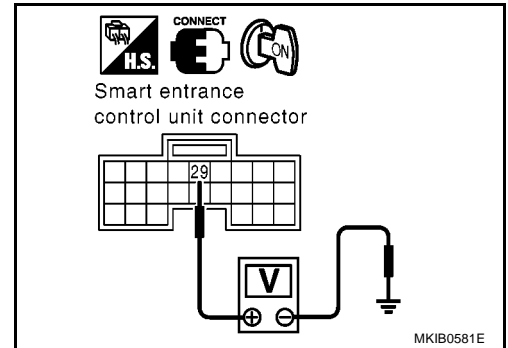
29 (Y/G) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 10A fuse [No. 10, located in fuse block (J/B)]
- Harness for open or short between smart entrance control unit and fuse



INTERIOR ROOM LAMP

2. CHECK DOOR SWITCH INPUT SIGNAL

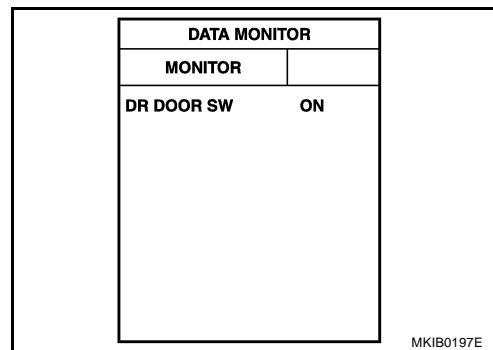
WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



WITHOUT CONSULT-II

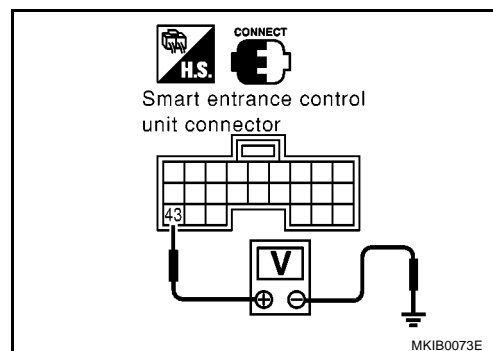
1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

OK >> GO TO 4.

NG >> GO TO 3.



3. CHECK DRIVER SIDE DOOR SWITCH

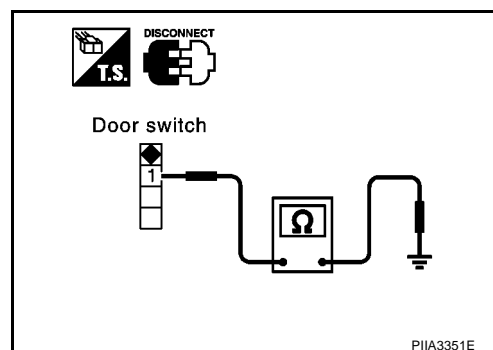
1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal		Door switch	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).

NG >> Replace front door switch (driver side).



INTERIOR ROOM LAMP

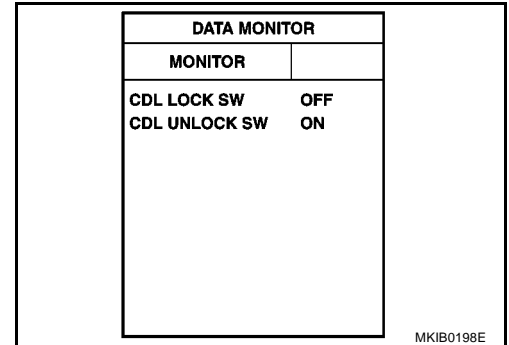
4. CHECK DOOR LOCK/UNLOCK SWITCH

WITH CONSULT-II

Check door lock/unlock switch signal ("CDL LOCK SW" or "CDL UNLOCK SW") in "DATA MONITOR" mode with CONSULT-II.

When door lock/unlock is locked : CDL LOCK SW ON

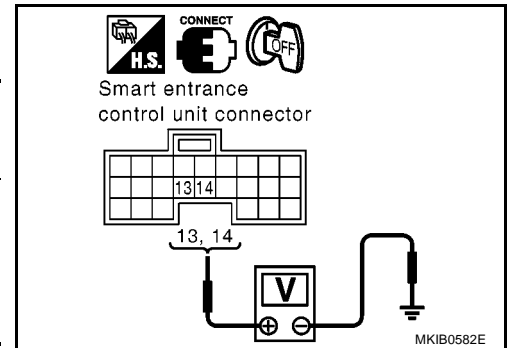
When door lock/unlock is unlocked : CDL UNLOCK SW ON



WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminals 13 or 14 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	13 (GY)	Ground	Locked	0
			Unlocked	Battery voltage
	14 (BR/Y)		Locked	Battery voltage
			Unlocked	0



OK or NG

OK >> GO TO 6.

NG >> GO TO 5.

5. CHECK DOOR LOCK/UNLOCK SWITCH

1. Disconnect door lock/unlock switch connector.
2. Check continuity between door lock/unlock switch connector terminals 1, 2 and 3.

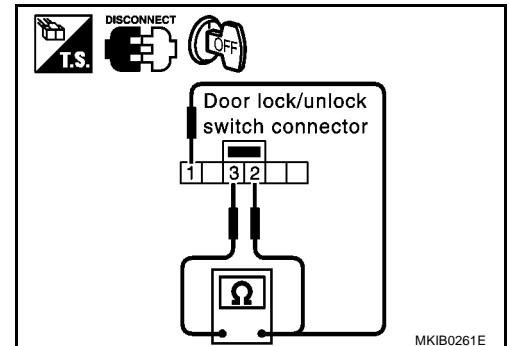
Terminal		Door lock/unlock switch condition	Continuity
1	3	Lock	Yes
2		Unlock	Yes

OK or NG

OK >> Check the following.

- Ground circuit for door lock/unlock switch
- Harness for open short between door lock/unlock switch and smart entrance control unit

NG >> Replace door lock/unlock switch.



INTERIOR ROOM LAMP

6. CHECK OTHER DOORS SWITCHES INPUT SIGNAL

WITH CONSULT-II

Check other doors switch signal ("AS DOOR SW", "RR DOOR SW" or "RR RH DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

Each DOOR SW

Each door is open : ON

Each door is closed : OFF

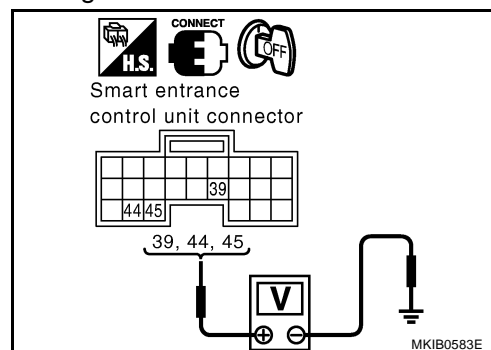
DATA MONITOR	
MONITOR	
AS DOOR SW	ON
RR LH DOOR SW	ON
RR RH DOOR SW	ON

MKIB0199E

WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector and ground.

Item	Connector	Terminal (wire color)		Condition	Voltage (V) (Approx.)
		(+)	(-)		
Rear door LH or RH	M42	39 (BR/W)	Ground	Open	0
				Closed	Battery voltage
Passenger side		44 (L/OR)		Open	0
				Closed	Battery voltage
Rear door LH or RH		45 (R/Y)		Open	0
				Closed	Battery voltage



OK or NG

OK >> GO TO 8.

NG >> GO TO 7.

7. CHECK DOOR SWITCHES

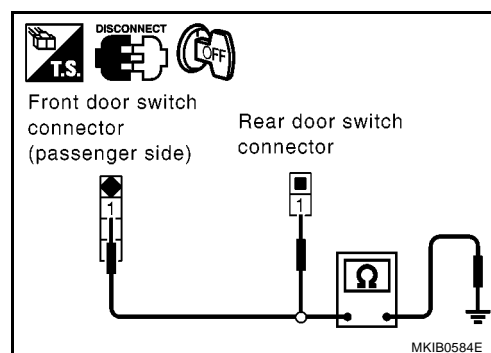
1. Disconnect each door switches harness connector.
2. Check continuity between door switch terminal 1 and ground part of door switch.

Terminal		Condition	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and door switch.

NG >> Replace malfunction door switch.



INTERIOR ROOM LAMP

8. CHECK KEY SWITCH INPUT SIGNAL

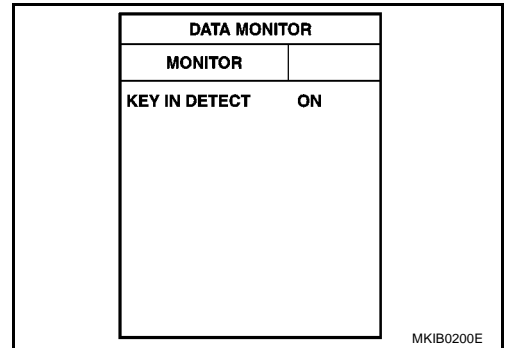
WITH CONSULT-II

Check key switch signal ("KEY IN DETECT") in "DATA MONITOR" mode with CONSULT-II.

KEY IN DETECT

Key is inserted in ignition cylinder : ON

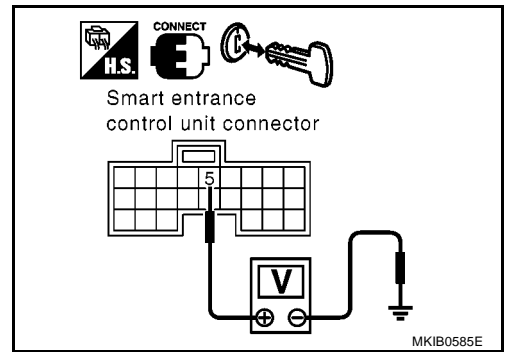
Key is removed from ignition key cylinder : OFF



WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminal 5 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	5 (B/R)	Ground	Key is inserted	Battery voltage
			Key is removed	0



OK or NG

OK >> Replace smart entrance control unit.

NG >> GO TO 9.

9. CHECK KEY SWITCH

1. Disconnect key switch connector.
2. Check continuity between key switch terminal 1 and 2.

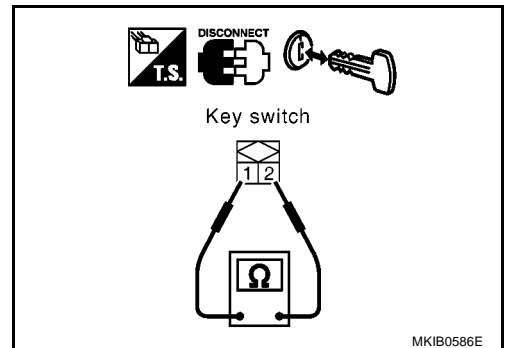
Terminal		Condition	Continuity
1	2		
1	2	Key is inserted	Yes
		Key is removed	No

OK or NG

OK >> Check the following.

- 10A fuse [No. 12, located in fuse block (J/B)]
- Harness for open or short between key switch and fuse
- Harness for open or short between smart entrance control unit and key switch

NG >> Replace key switch.



INTERIOR ROOM LAMP

Interior Room Lamp Timer Does Not Cancel

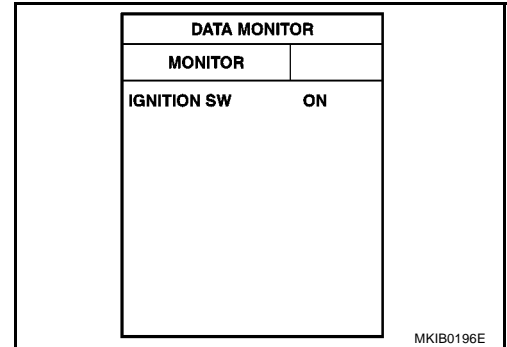
EKS0090E

1. CHECK IGNITION ON SIGNAL

WITH CONSULT-II

Check ignition switch ON signal ("IGNITION SW") in "DATA MONITOR" mode with CONSULT-II.

Turn ignition switch ON : ON
Turn ignition switch OFF : OFF



WITHOUT CONSULT-II

1. Turn ignition switch ON.
2. Check voltage between smart entrance control unit harness connector M42 terminal 29 and ground.

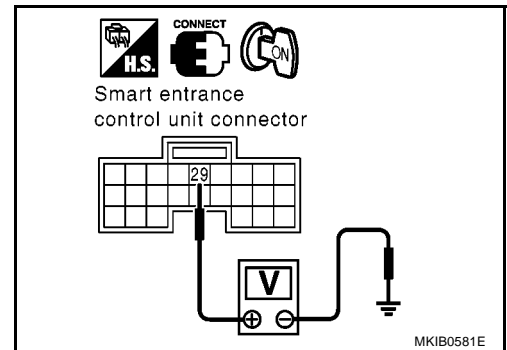
29 (Y/G) - Ground : Battery voltage

OK or NG

OK >> GO TO 2.

NG >> Check the following.

- 10A fuse [No. 10, located in fuse block (J/B)]
- Harness for open or short between smart entrance control unit and fuse



INTERIOR ROOM LAMP

2. CHECK DOOR SWITCH INPUT SIGNAL

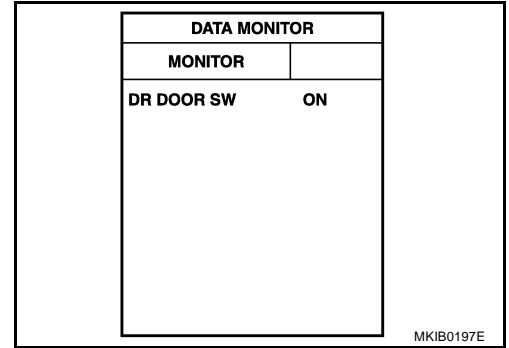
WITH CONSULT-II

Check driver door switch signal ("DR DOOR SW") in "DATA MONITOR" mode with CONSULT-II.

DR DOOR SW

Driver side door is open : ON

Driver side door is closed : OFF



WITHOUT CONSULT-II

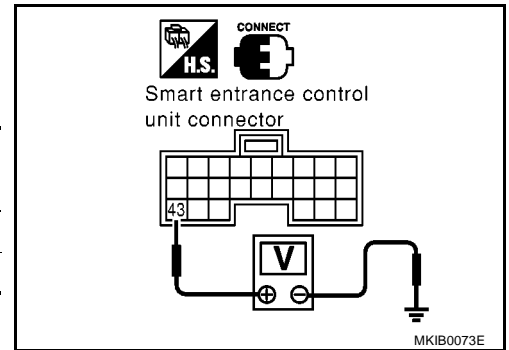
1. Turn ignition switch OFF.
2. Check voltage between smart entrance control unit harness connector and ground.

Connector	Terminal (wire color)		Driver side door condition	Voltage (V) (Approx.)
	(+)	(-)		
M42	43 (R/W)	Ground	Open : (ON)	0
			Closed : (OFF)	Battery voltage

OK or NG

OK >> GO TO 4.

NG >> GO TO 3.



3. CHECK DRIVER SIDE DOOR SWITCH

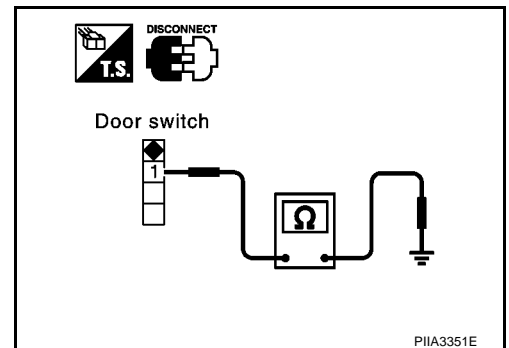
1. Disconnect front door switch (driver side) connector.
2. Check continuity between front door switch (driver side) terminal 1 and ground part of door switch.

Terminal		Door switch	Continuity
1	Ground part of door switch	Pushed	No
		Released	Yes

OK or NG

OK >> Check harness for open or short between smart entrance control unit and front door switch (driver side).

NG >> Replace front door switch (driver side).



INTERIOR ROOM LAMP

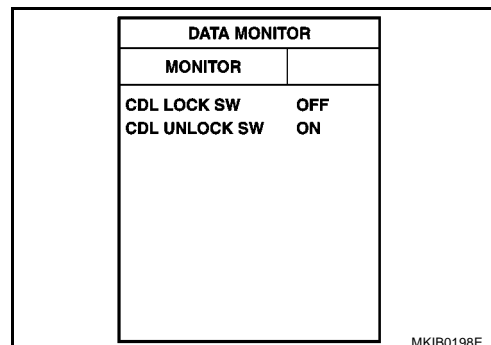
4. CHECK DOOR LOCK/UNLOCK SWITCH

WITH CONSULT-II

Check door lock/unlock switch signal ("CDL LOCK SW" or "CDL UNLOCK SW") in "DATA MONITOR" mode with CONSULT-II.

When door lock/unlock is locked : CDL LOCK SW ON

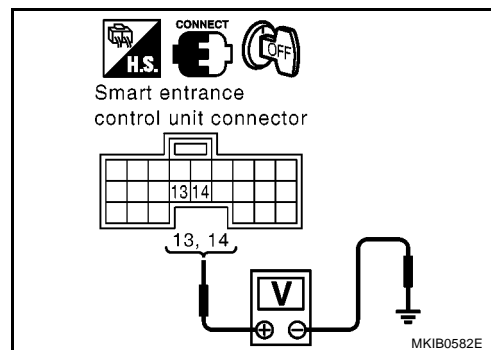
When door lock/unlock is unlocked : CDL UNLOCK SW ON



WITHOUT CONSULT-II

Check voltage between smart entrance control unit harness connector M41 terminals 13 or 14 and ground.

Connector	Terminals (wire color)		Condition (Door lock/ unlock switch)	Voltage (V) (Approx.)
	(+)	(-)		
M41	13 (GY)	Ground	Locked	0
			Unlocked	Battery voltage
	14 (BR/Y)		Locked	Battery voltage
			Unlocked	0



OK or NG

OK >> Door lock/unlock switch is OK.

NG >> GO TO 2.

5. CHECK DOOR LOCK/UNLOCK SWITCH

1. Disconnect door lock/unlock switch connector.
2. Check continuity between door lock/unlock switch connector terminals 1, 2 and 3.

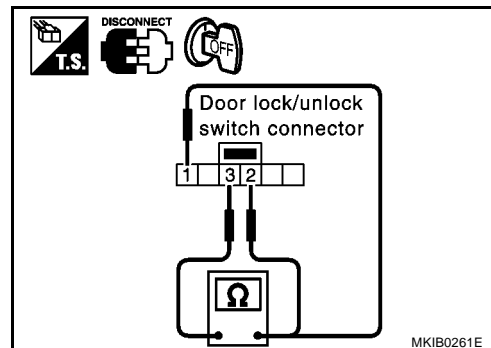
Terminal		Door lock/unlock switch condition	Continuity
1	3	Lock	Yes
2		Unlock	Yes

OK or NG

OK >> Check the following.

- Ground circuit for door lock/unlock switch
- Harness for open short between door lock/unlock switch and smart entrance control unit

NG >> Replace door lock/unlock switch.



INTERIOR ROOM LAMP

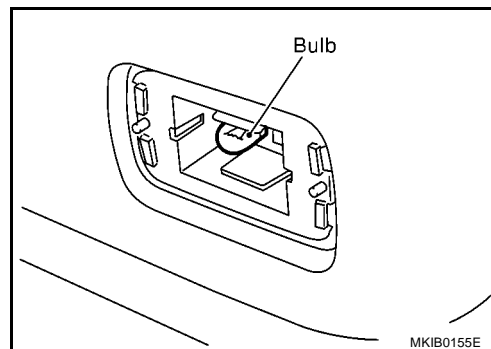
Bulb Replacement INTERIOR ROOM LAMP

EKS009OF

Refer to [LT-132, "SPOT LAMP"](#) .

STEP LAMP

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



ASHTRAY

Removal and installation, refer to [LT-129, "ASHTRAY"](#) .

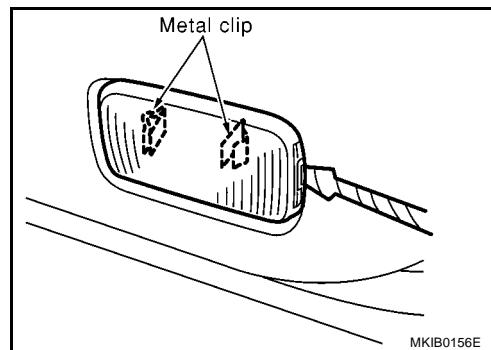
Removal and Installation INTERIOR ROOM LAMP

EKS009OG

Refer to [LT-132, "SPOT LAMP"](#) .

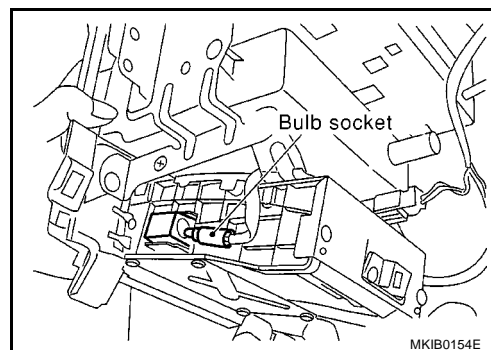
STEP LAMP

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



ASHTRAY

1. Remove the A/T finisher. Refer to IP section in P12 ESM (SM2E00-1P12E0E).
2. Remove the console box (front, rear).
3. Remove the instrument finisher E.
4. Remove the cluster lid C.
5. Remove the audio assembly.
6. Turn the bulb socket counterclockwise and unlock it.



SPOT, VANITY MIRROR AND TRUNK (LUGGAGE) ROOM LAMPS

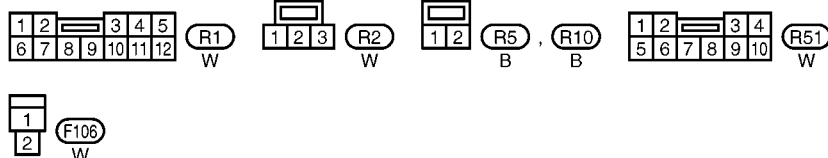
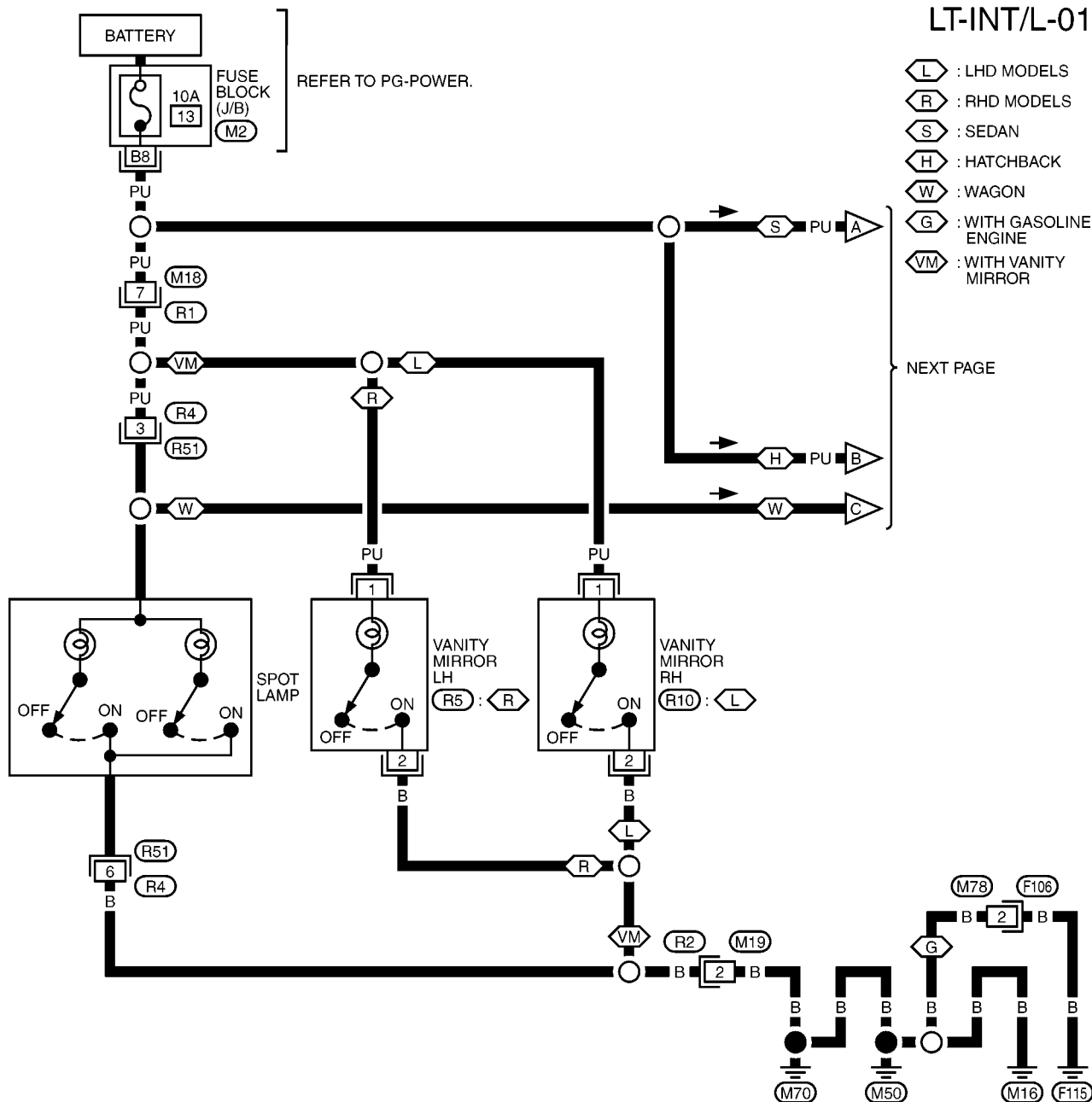
SPOT, VANITY MIRROR AND TRUNK (LUGGAGE) ROOM LAMPS

PFP:26470

Wiring Diagram — INT/L —

EKS0090H

LT-INT/L-01

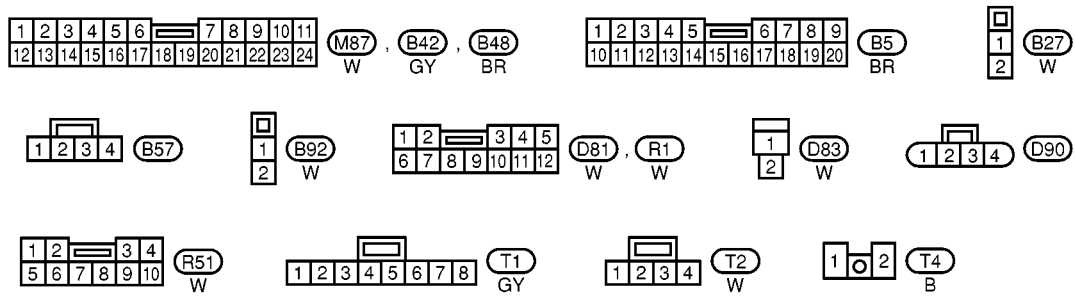


REFER TO THE FOLLOWING.

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

A
B
C
D
E
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I
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K
L
M

LT



LT-131

SPOT, VANITY MIRROR AND TRUNK (LUGGAGE) ROOM LAMPS

Bulb Replacement

SPOT LAMP

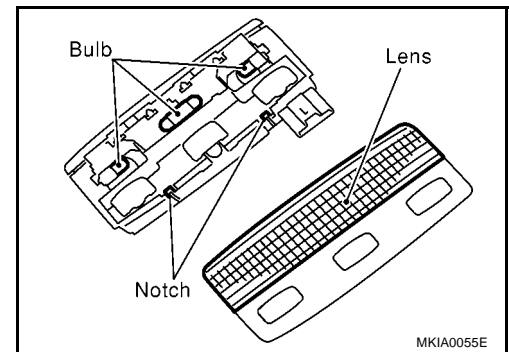
1. Remove the lens using a clip driver or a suitable tool.
2. Remove the bulb.

Interior room lamp

: 12V - 7W

Spot lamp

: 12V - 5W



TRUNK ROOM LAMP

For removal and installation, refer to [LT-132, "TRUNK ROOM LAMP"](#) .

Trunk room lamp

: 12V - 3.4W

LUGGAGE ROOM LAMP

For removal and installation, refer to [LT-133, "LUGGAGE ROOM LAMP"](#) .

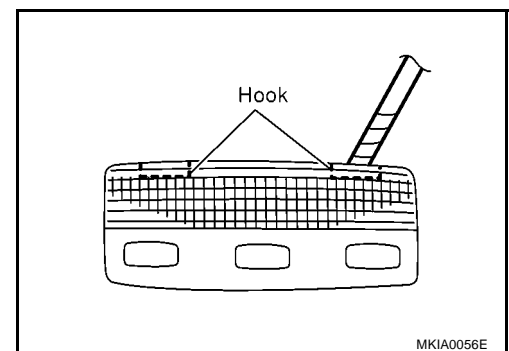
Luggage room lamp

: 12V - 10W

Removal and Installation

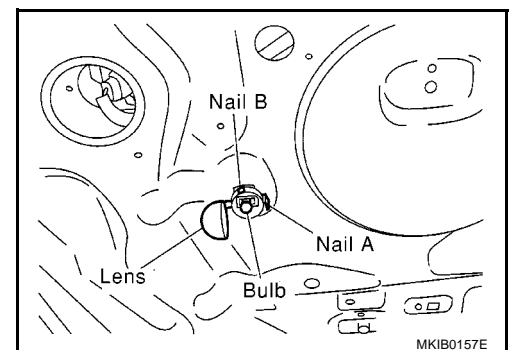
SPOT LAMP

1. Using a clips driver or a suitable tool, press and remove the hook of the spot lamp.
2. Disconnect the spot lamp connector.



TRUNK ROOM LAMP

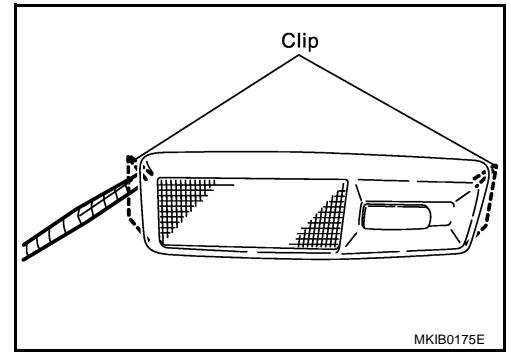
1. Remove the lens disengage nail A.
2. Pushing the nail B, remove the trunk room lamp.
3. Disconnect the trunk room lamp connector.



SPOT, VANITY MIRROR AND TRUNK (LUGGAGE) ROOM LAMPS

LUGGAGE ROOM LAMP

1. Using a clips driver or a suitable tool. Press and remove the clip of the luggage room lamp.
2. Disconnect the luggage room lamp connector.



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CAN COMMUNICATION

CAN COMMUNICATION

PFP:23710

System Description

EKS009OK

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

EKS009OL

Body type	Sedan/Wagon/Hatch back													
Axle	2WD													
Engine	QR20DE			QG18DE		QR20DE		QG18 DE	YD22 DDTi	QG16 DE	QG18 DE	QR20 DE	YD22D DTi	
Transmission	CVT			A/T		6M/T		5M/T	6M/T	5M/T		6M/T		
Brake control	ESP		ABS	ABS	ESP	ESP				ABS				
ICC system	Appli-cable	Not applicable				Appli-cable	Not applicable							
CAN communication unit														
ECM	×	×	×	×	×	×	×	×	×	×	×	×	×	
TCM	×	×	×	×	×									
ESP/TCS/ABS control unit	×	×			×	×	×	×	×					
ABS actuator and electric unit (control unit)			×	×						×	×	×	×	
Data link connector	×	×	×	×	×	×	×	×	×	×	×	×	×	
Steering angle sensor	×	×			×	×	×	×	×					
Smart entrance control unit	×	×	×	×	×	×	×	×	×	×	×	×	×	
ICC unit	×					×								
ICC sensor	×					×								
Combination meter	×	×	×	×	×	×	×	×	×	×	×	×	×	
Can communication type	<u>LT-135.</u> <u>"TYP</u> <u>E 1/</u> <u>TYPE</u> <u>8"</u>	<u>LT-137.</u> <u>"TYP</u> <u>E 2/</u> <u>TYPE</u> <u>9"</u>	<u>LT-138.</u> <u>"TYP</u> <u>E 3/</u> <u>TYPE</u> <u>10"</u>	<u>LT-140.</u> <u>"TYP</u> <u>E 4/</u> <u>TYPE</u> <u>11"</u>	<u>LT-143.</u> <u>"TYP</u> <u>E 15/</u> <u>TYPE</u> <u>18"</u>	<u>LT-145.</u> <u>"TYP</u> <u>E 16/</u> <u>TYPE</u> <u>19"</u>	<u>LT-141, "TYPE 5,TYPE 17/TYPE 12,TYPE 20"</u>				<u>LT-142, "TYPE 6,TYPE 7/TYPE 13,TYPE 14"</u>			

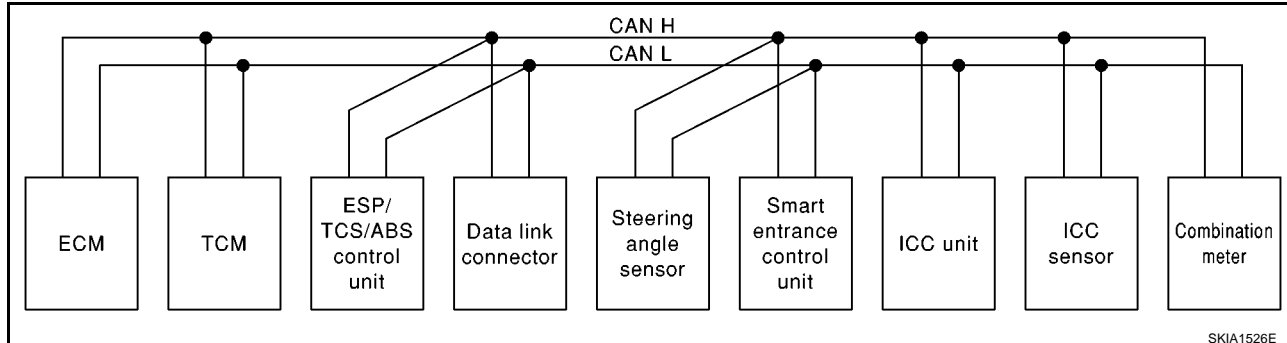
×:Applicable

CAN COMMUNICATION

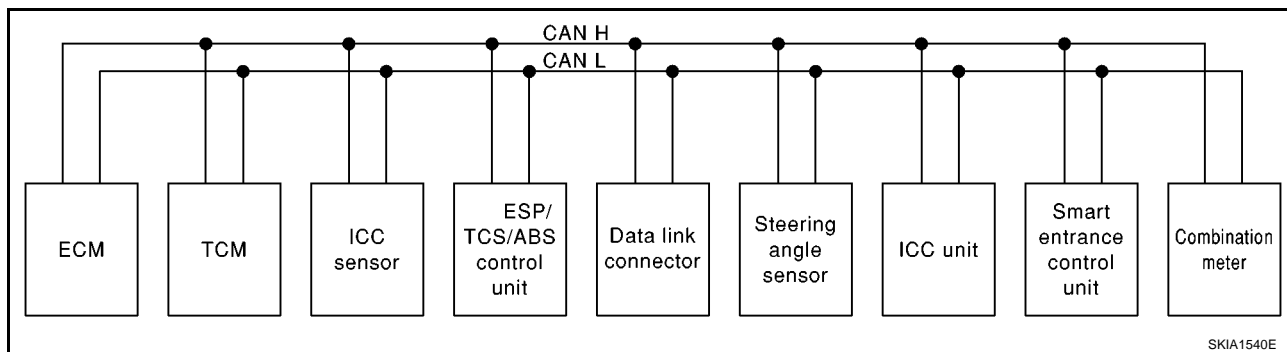
TYPE 1/TYPE 8

System diagram

- LHD models (Type 1)



- RHD models (Type 8)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ESP/ TCS / ABS con- trol unit	Steering angle sensor	Smart entrance control unit	ICC unit	ICC sen- sor	Combina- tion meter
Engine speed signal	T		R			R		R
Accelerator pedal position signal	T	R	R			R		
Closed throttle position signal	T	R				R		
ICC steering switch signal	T					R		
Shift pattern signal		T				R		
Parking brake switch signal			T			R		
ICC system display signal						T		R
ICC sensor signal						R	T	
ESP operation signal	R	R	T			R		
TCS operation signal	R	R	T			R		
ABS operation signal	R	R	T			R		
Stop lamp switch signal		R	T					
Steering wheel angle sensor signal			R	T				
Wheel speed sensor signal			T			R		
Rear window defogger signal	R				T			
Heater fan switch signal	R							T
Air conditioner switch signal	R							T
Primary pulley revolution signal	R	T	R			R		
Secondary pulley revolution signal	R	T	R			R		

CAN COMMUNICATION

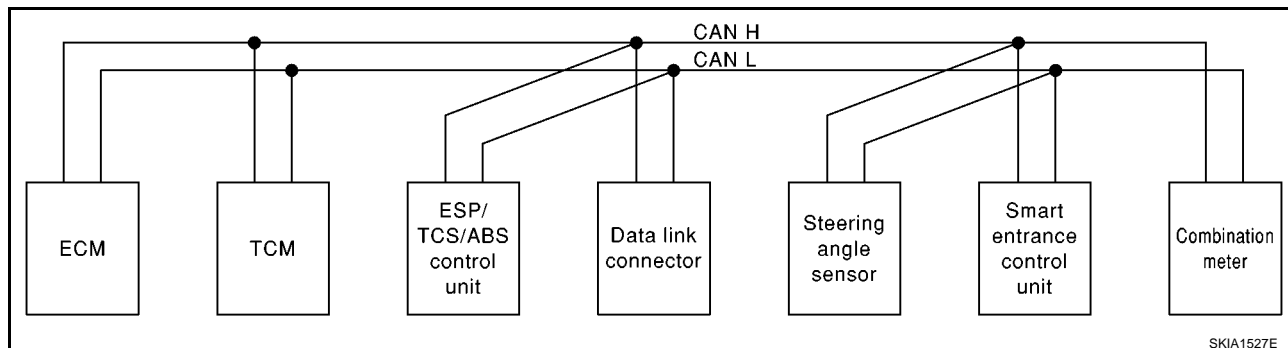
Signals	ECM	TCM	ESP/ TCS / ABS con- trol unit	Steering angle sensor	Smart entrance control unit	ICC unit	ICC sen- sor	Combina- tion meter
ICC operation signal	R					T		
Brake switch signal		R						T
MI signal	T							R
Current gear position signal		T						R
Engine coolant temperature signal	T					R		R
Fuel consumption signal	T							R
Vehicle speed signal		R	T					
			T					R
	R							T
Seat belt reminder signal					R			T
Lighting switch position signal					T			R
Flashing indicator signal					T			R
Engine cooling fan speed signal	T				R			
Child lock indicator signal					T			R
Door switches state signal					T			R
A/C compressor signal	T				R			

CAN COMMUNICATION

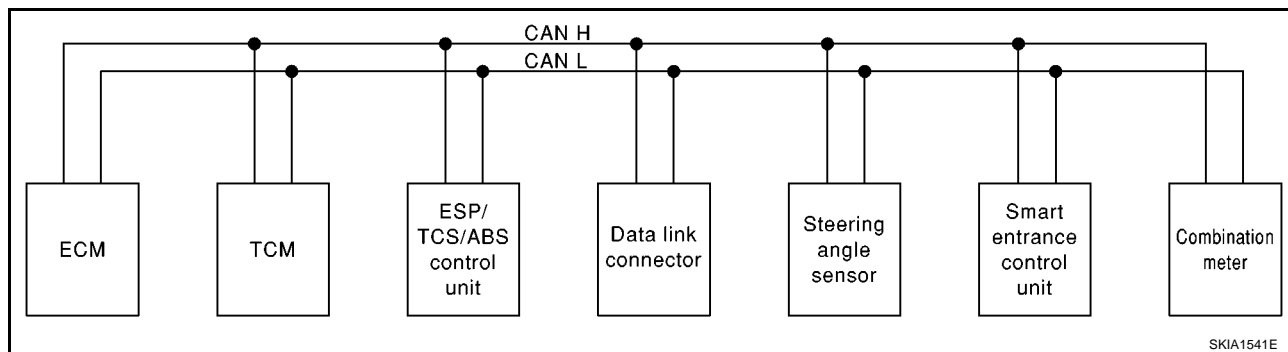
TYPE 2/TYPE 9

System diagram

- LHD models (Type 2)



- RHD models (Type 9)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
Engine speed signal	T		R			R
Accelerator pedal position signal	T	R	R			
Closed throttle position signal	T	R				
ESP operation signal	R	R	T			
TCS operation signal	R	R	T			
ABS operation signal	R	R	T			
Stop lamp switch signal		R	T			
Steering wheel angle sensor signal			R	T		
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
Primary pulley revolution signal	R	T				
Secondary pulley revolution signal	R	T				
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal		R	T			
			T			R
	R					T

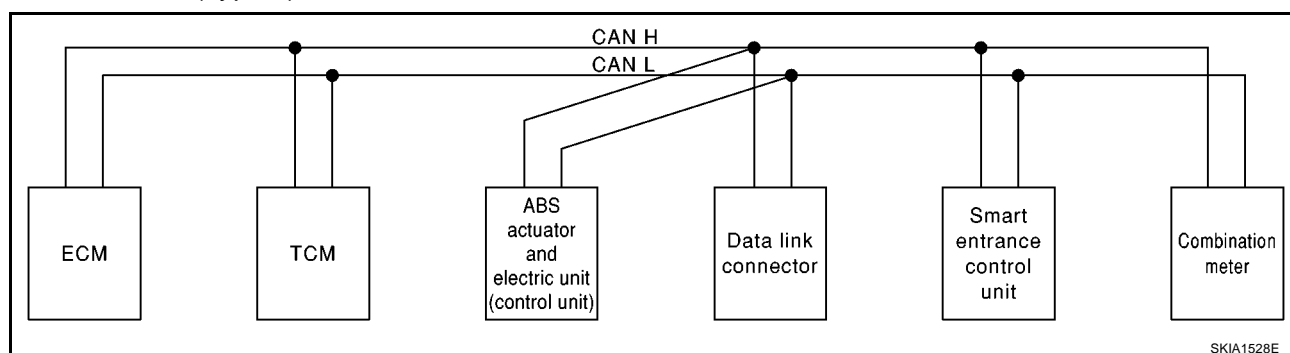
CAN COMMUNICATION

Signals	ECM	TCM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
Seat belt reminder signal					R	T
Lighting switch position signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
A/C compressor signal	T				R	
ASCD main switch signal	T					R
ASCD cruise signal	T					R

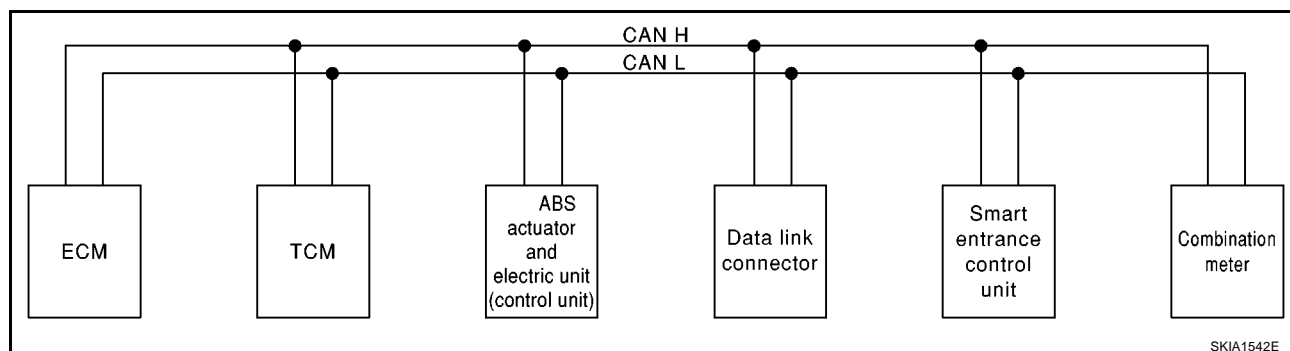
TYPE 3/TYPE 10

System diagram

- LHD models (Type 3)



- RHD models (Type 10)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance con- trol unit	Combination meter
Engine speed signal	T				R
Closed throttle position signal	T	R			
ABS operation signal	R	R	T		
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
Primary pulley revolution signal	R	T			

CAN COMMUNICATION

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Secondary pulley revolution signal	R	T			
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal		R	T		
			T		R
	R				T
Seat belt reminder signal				R	T
Lighting switch position signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
A/C compressor signal	T			R	
ASCD main switch signal	T				R
ASCD cruise signal	T				R
Accelerator pedal position signal	T	R			

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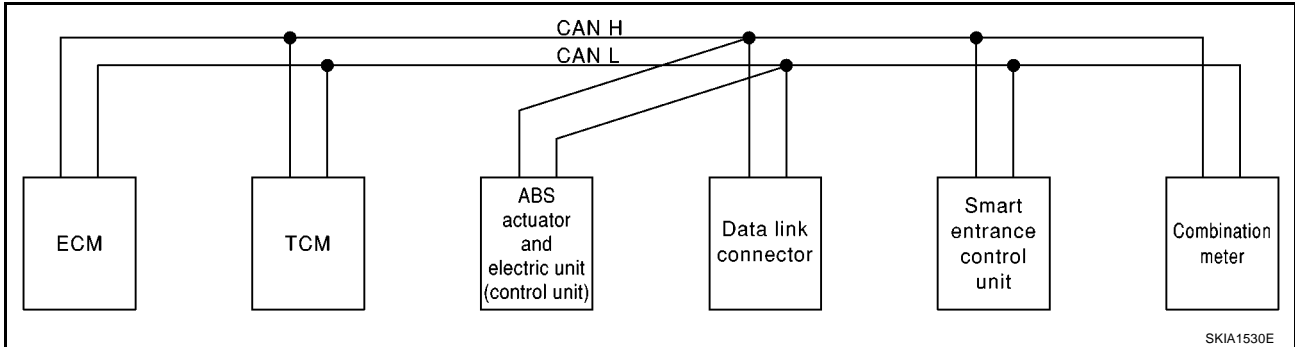
M

CAN COMMUNICATION

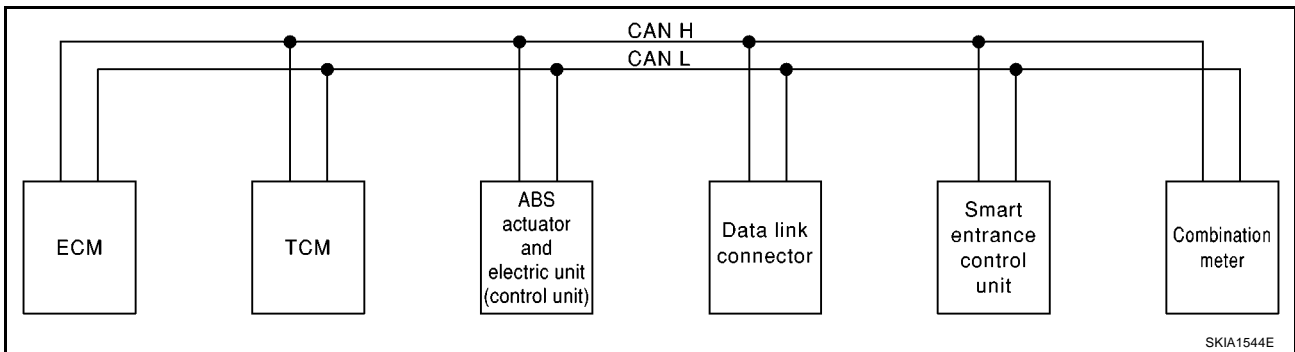
TYPE 4/TYPER 11

System diagram

- LHD models (Type 4)



- RHD models (Type 11)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine speed signal	T				R
Stop lamp switch signal		R	T		
Rear window defogger signal	R			T	
Heater fan switch signal	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Current gear position signal		T			R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal			T		R
	R				T
Seat belt reminder signal				R	T
Lighting switch position signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
A/C compressor signal	T			R	
ASCD main switch signal	T				R
ASCD cruise signal	T				R

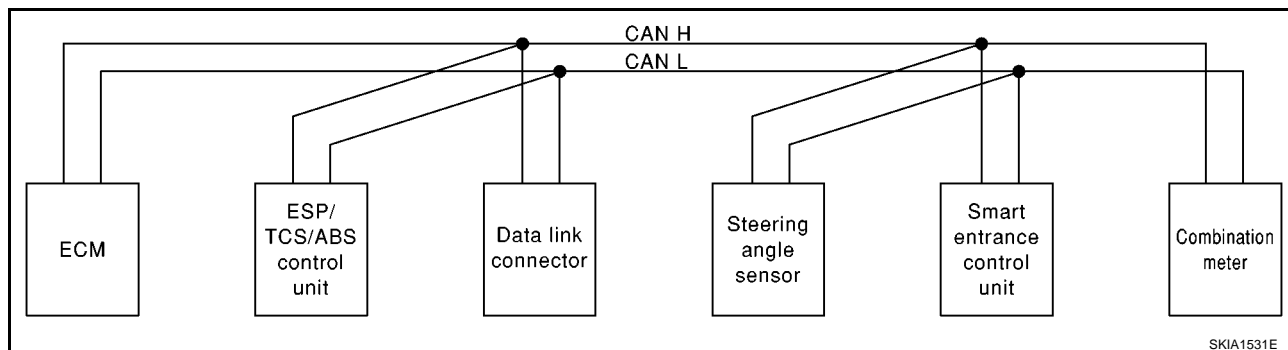
CAN COMMUNICATION

Signals	ECM	TCM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Accelerator pedal position signal	T	R			
Output shaft revolution signal	R	T			

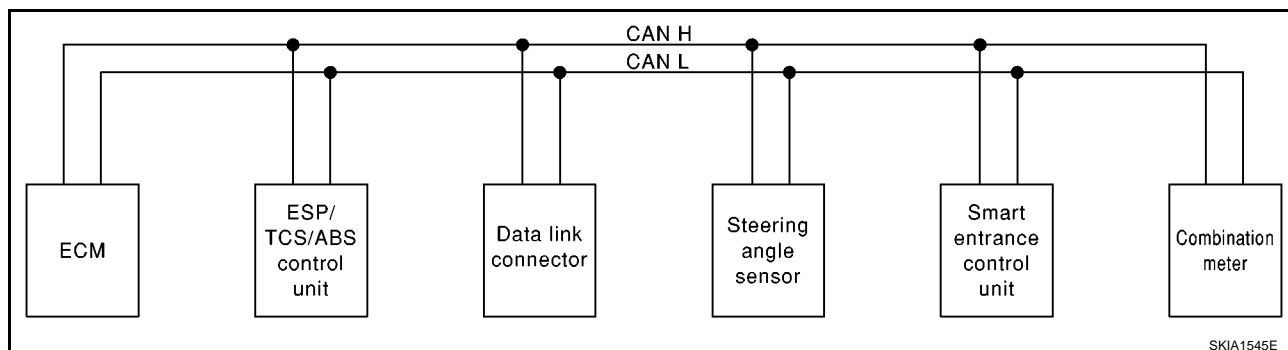
TYPE 5,TYPE 17/TYPE 12,TYPE 20

System diagram

- LHD models (Type 5,Type 17)



- RHD models (Type 12,Type 20)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine speed signal	T	R			R
Accelerator pedal position signal	T	R			
ESP operation signal	R	T			
TCS operation signal	R	T			
ABS operation signal	R	T			
Steering wheel angle sensor signal		R	T		
Rear window defogger signal ^{*2}	R			T	
Heater fan switch signal ^{*2}	R				T
Air conditioner switch signal	R				T
MI signal	T				R
Engine coolant temperature signal	T				R
Fuel consumption signal	T				R
Vehicle speed signal		T			R
	R				T
Seat belt reminder signal				R	T

CAN COMMUNICATION

Signals	ECM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Lighting switch position signal				T	R
Flashing indicator signal				T	R
Engine cooling fan speed signal	T			R	
Child lock indicator signal				T	R
Door switches state signal				T	R
A/C compressor signal	T			R	
ASCD main switch signal* ²	T				R
ASCD cruise signal* ²	T				R
Glow lamp signal* ¹	T				R

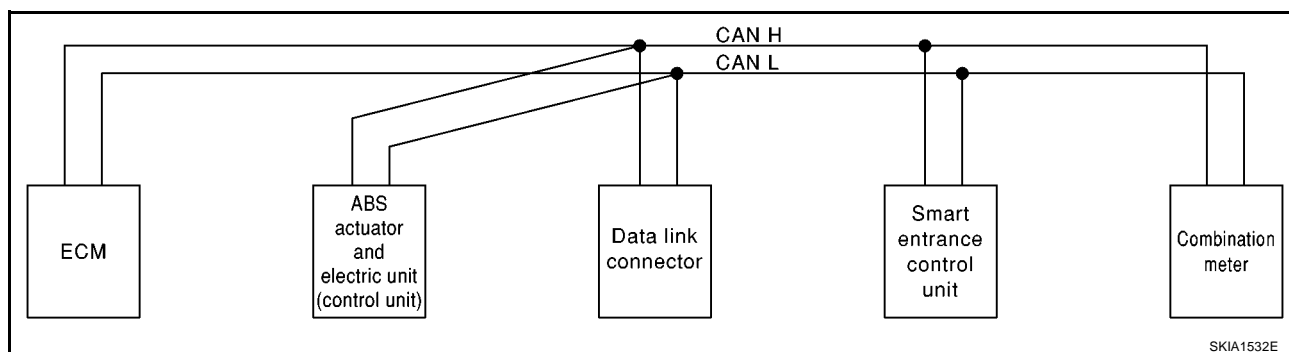
*1:YD22DDTi engine model only

*2:Except YD22DDTi engine models

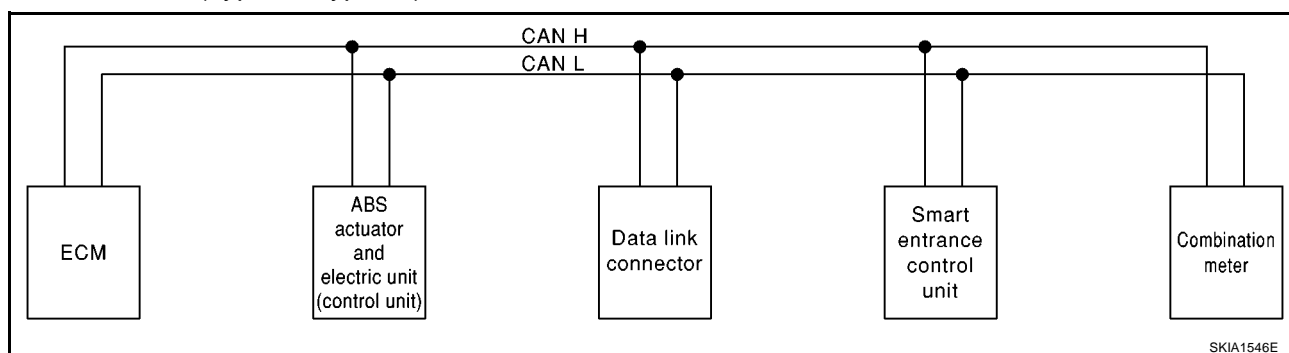
TYPE 6,TYPE 7/TYPE 13,TYPE 14

System diagram

- LHD models (Type 6,Type 7)



- RHD models (Type 13,Type 14)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ABS actuator and electric unit (con- trol unit)	Smart entrance control unit	Combination meter
Engine speed signal	T			R
Rear window defogger signal* ²	R		T	
Heater fan switch signal* ²	R			T
Air conditioner switch signal	R			T
MI signal	T			R
Glow lamp signal* ¹	T			R

CAN COMMUNICATION

Signals	ECM	ABS actuator and electric unit (control unit)	Smart entrance control unit	Combination meter
Engine coolant temperature signal	T			R
Fuel consumption signal	T			R
Vehicle speed signal		T		R
	R			T
Seat belt reminder signal			R	T
Lighting switch position signal			T	R
Flashing indicator signal			T	R
Engine cooling fan speed signal	T		R	
Child lock indicator signal			T	R
Door switches state signal			T	R
A/C compressor signal	T		R	
ASCD main switch signal ^{*2}	T			R
ASCD cruise signal ^{*2}	T			R

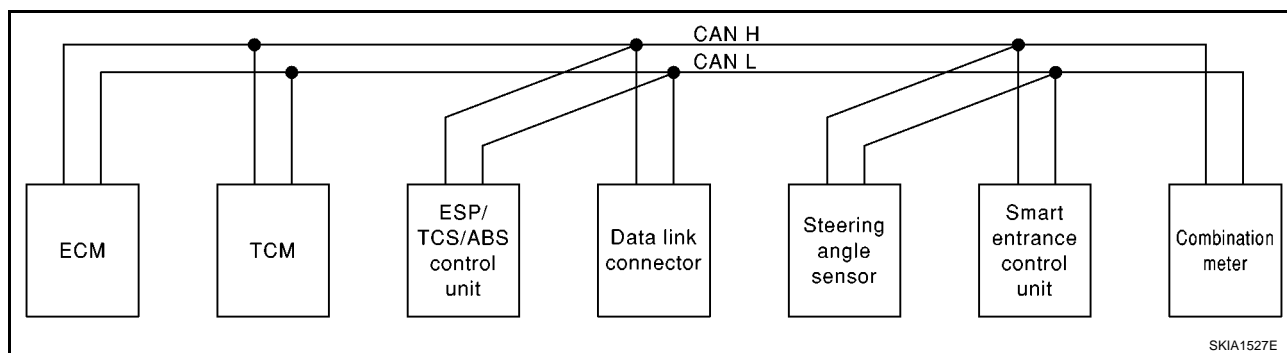
*1:YD22DDTi engine model only

*2:Except YD22DDTi engine models

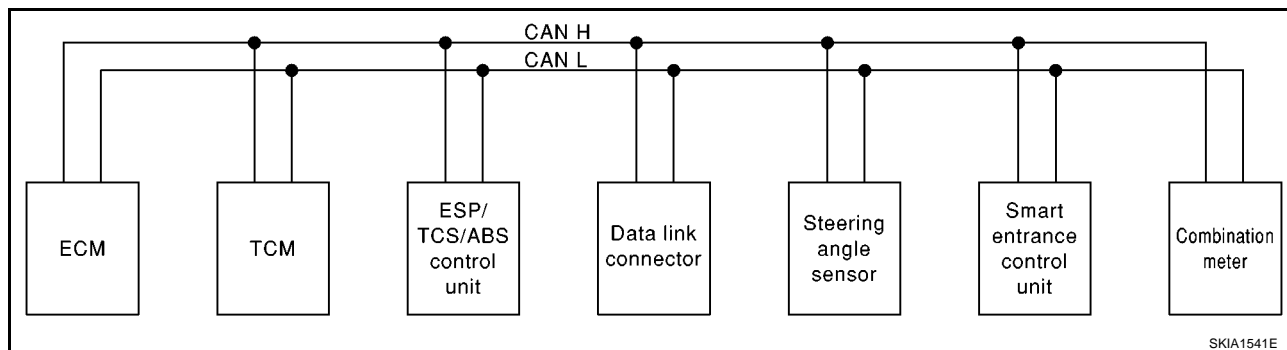
TYPE 15/TYPE 18

System diagram

- LHD models (Type 15)



- RHD models (Type 18)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	ESP / TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combination meter
Engine speed signal	T		R			R
Accelerator pedal position signal	T	R	R			

CAN COMMUNICATION

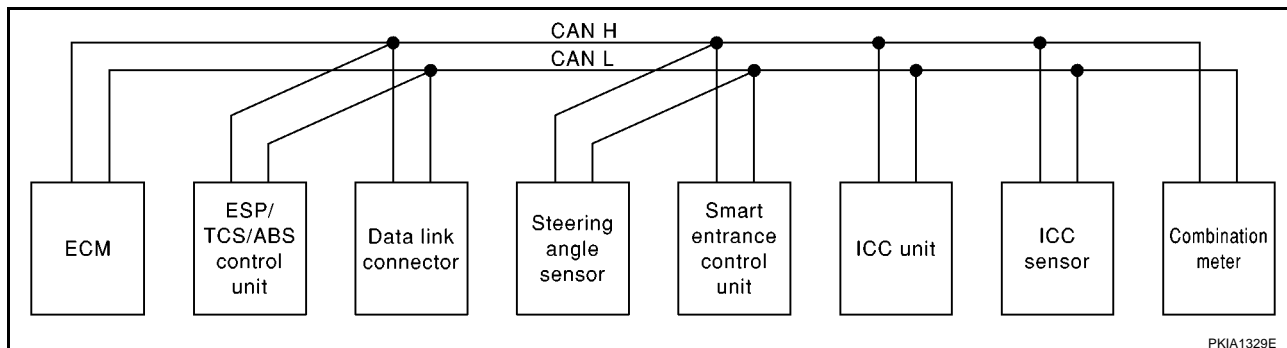
Signals	ECM	TCM	ESP/ TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	Combina- tion meter
ESP operation signal	R		T			
TCS operation signal	R		T			
ABS operation signal	R	R	T			
Stop lamp switch signal		R	T			
Steering wheel angle sensor signal			R	T		
Rear window defogger signal	R				T	
Heater fan switch signal	R					T
Air conditioner switch signal	R					T
MI signal	T					R
Current gear position signal		T				R
Engine coolant temperature signal	T					R
Fuel consumption signal	T					R
Vehicle speed signal			T			R
	R					T
Seat belt reminder signal					R	T
Lighting switch position signal					T	R
Flashing indicator signal					T	R
Engine cooling fan speed signal	T				R	
Child lock indicator signal					T	R
Door switches state signal					T	R
A/C compressor signal	T				R	
ASCD main switch signal	T					R
ASCD cruise signal	T					R
Output shaft revolution signal	R	T				

CAN COMMUNICATION

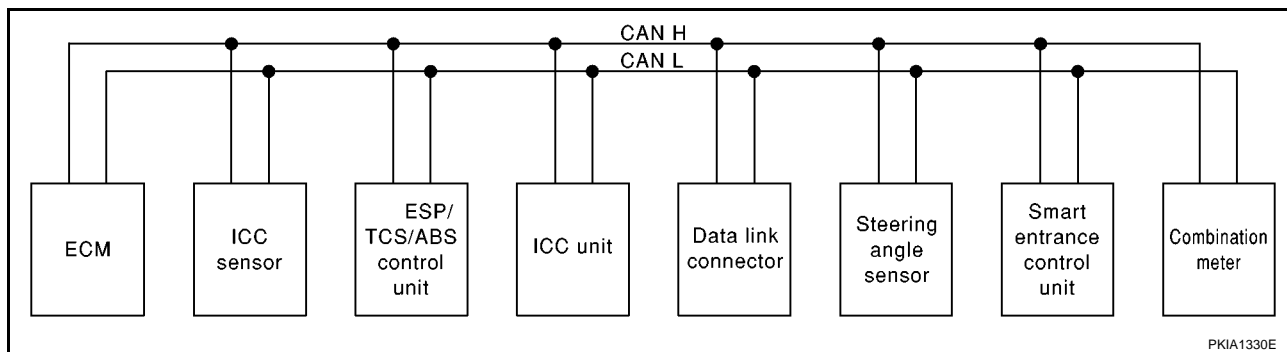
TYPE 16/TYPE 19

System diagram

- LHD models (Type 16)



- RHD models (Type19)



Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ESP/TCS / ABS control unit	Steering angle sensor	Smart entrance control unit	ICC unit	ICC sensor	Combination meter
Engine speed signal	T	R			R		R
Accelerator pedal position signal	T	R			R		
Closed throttle position signal	T				R		
ICC steering switch signal	T				R		
Parking brake switch signal		T			R		
ICC system display signal					T		R
ICC sensor signal					R	T	
ESP operation signal	R	T			R		
TCS operation signal	R	T			R		
ABS operation signal	R	T			R		
Stop lamp switch signal		T					
Steering wheel angle sensor signal		R	T				
Wheel speed sensor signal		T			R		
Rear window defogger signal	R			T			
Heater fan switch signal	R						T
Air conditioner switch signal	R						T
ICC operation signal	R				T		
Brake switch signal	R				T		
MI signal	T						R
Engine coolant temperature signal	T				R		R

CAN COMMUNICATION

Signals	ECM	ESP/TCS / ABS con- trol unit	Steering angle sen- sor	Smart entrance control unit	ICC unit	ICC sen- sor	Combina- tion meter
Fuel consumption signal	T						R
Vehicle speed signal		T					R
	R						T
Seat belt reminder signal				R			T
Lighting switch position signal				T			R
Flashing indicator signal				T			R
Engine cooling fan speed signal	T			R			
Child lock indicator signal				T			R
Door switches state signal				T			R
A/C compressor signal	T			R			

BULB SPECIFICATIONS

BULB SPECIFICATIONS

PFP:26297

Headlamp

EKS0090M

Item		Wattage (W)
High/Low	Without xenon headlamp	55/55 (H7/H7)
	With xenon headlamp	55/35 (H7/D2R)

Exterior Lamp

EKS0090O

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	Sedan	21
	Wagon	5
	Hatchback	LED (Not serviceable)

Interior Lamp/Illumination

EKS0090O

Item	Wattage (W)
Interior room lamp	7
Spot lamp	5
Trunk room lamp (Sedan)	3.4
Luggage room lamp (Wagon)	10

BULB SPECIFICATIONS
