

# ELECTRICAL SYSTEM

## SECTION **EL**

When you read wiring diagrams:

- Read GI section, "HOW TO READ WIRING DIAGRAMS".

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#### WIRING DIAGRAM REFERENCE CHART

ENGINE CONTROL SYSTEM, IGNITION SYSTEM .....	EF & EC SECTION
POWER WINDOW AND POWER DOOR LOCK, HEATED SEAT, SUN ROOF, DOOR MIRROR .....	BF SECTION
HEATER AND AIR CONDITIONER .....	HA SECTION



# HARNESS CONNECTOR

## Description

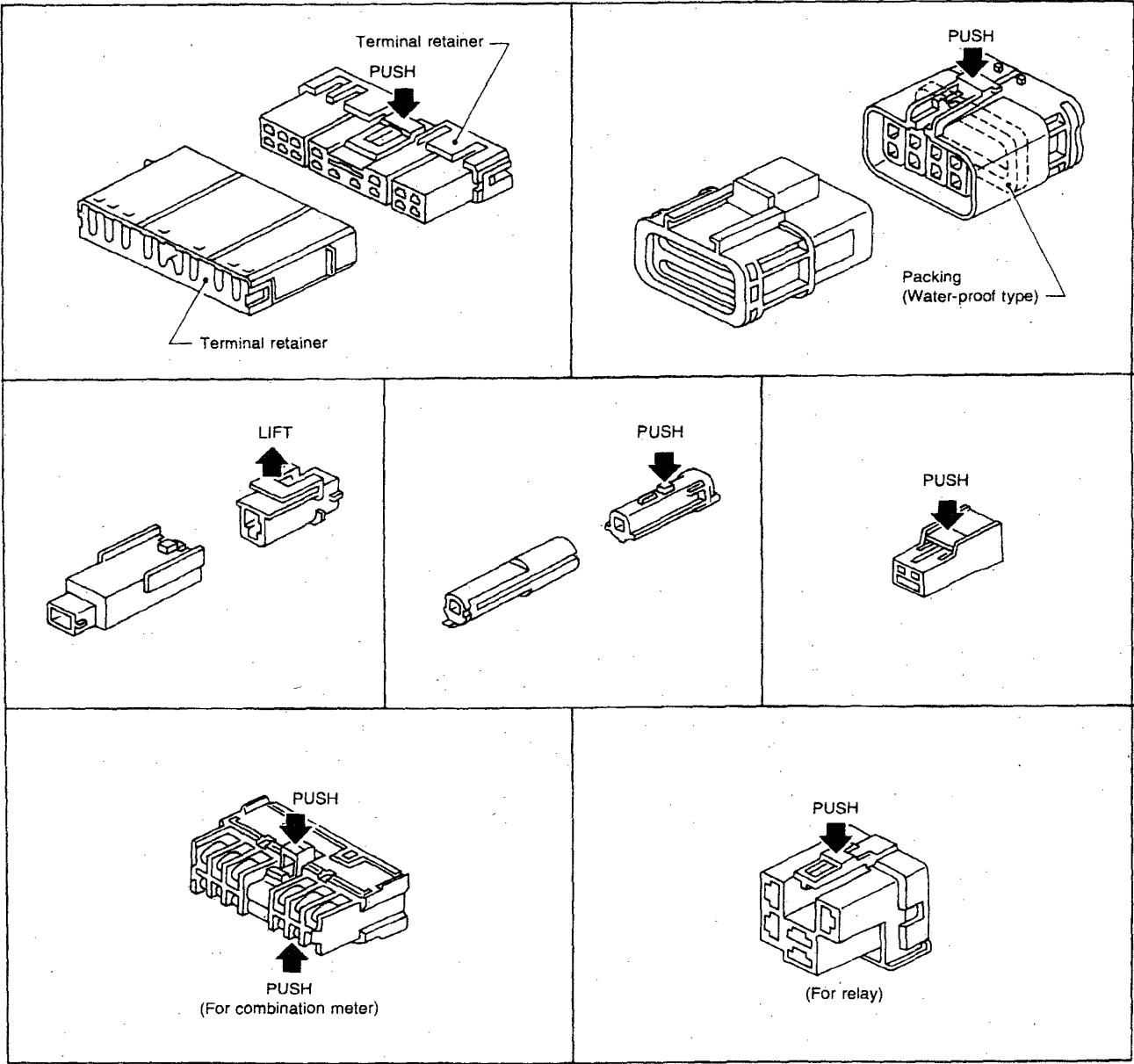
### HARNESS CONNECTOR

- All harness connectors have been modified to prevent accidental looseness or disconnection.
- The connectors can be disconnected by pushing or lifting the locking section.

#### CAUTION:

Do not pull the harness when disconnecting the connector.

[Example]



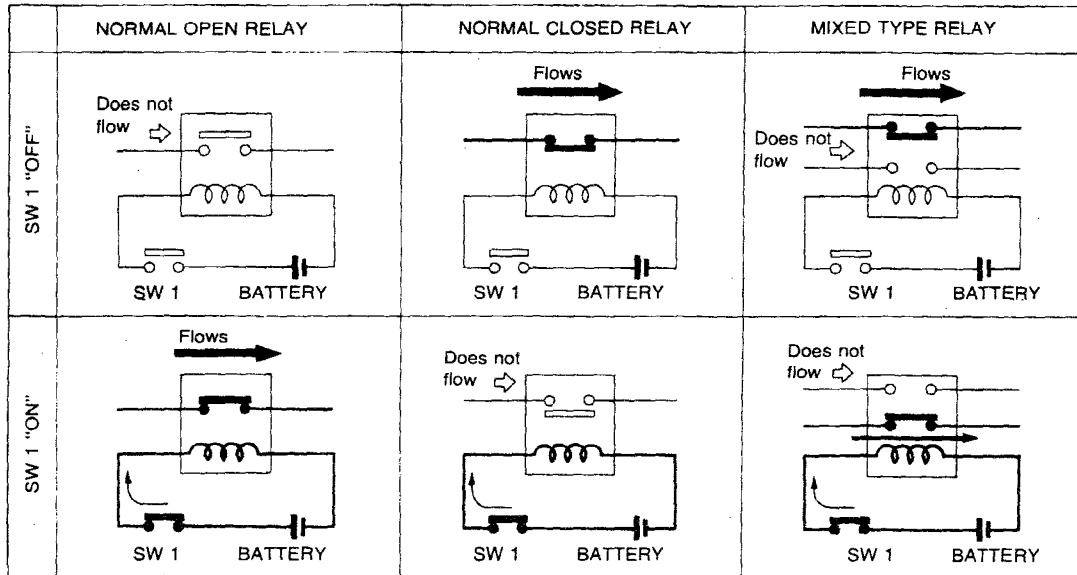
SEL769D

# STANDARDIZED RELAYS

## Description

### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

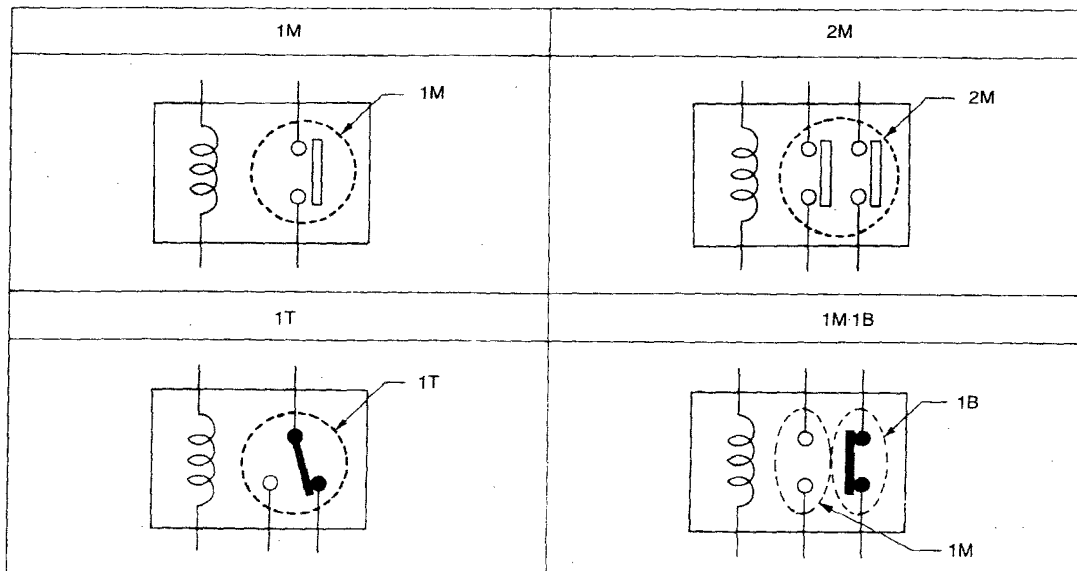
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

## TYPES OF STANDARDIZED RELAYS

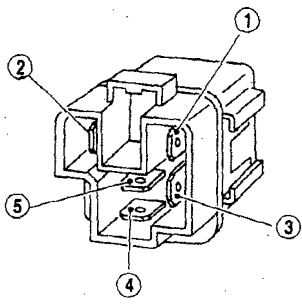
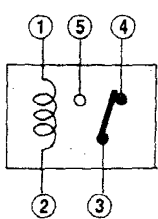
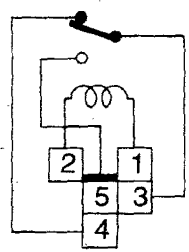
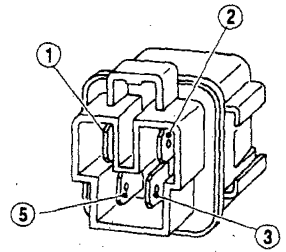
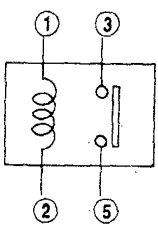
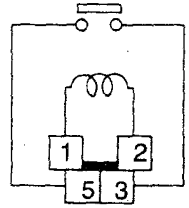
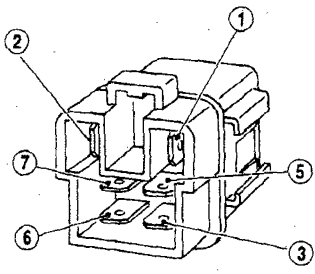
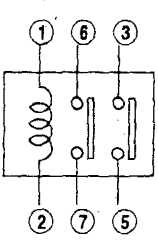
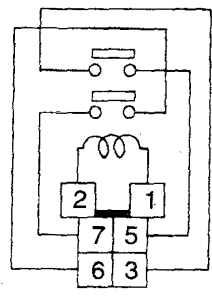
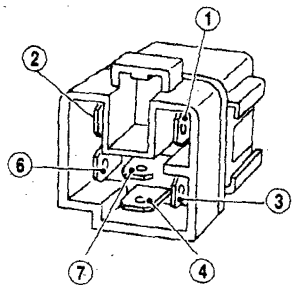
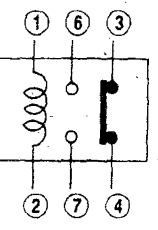
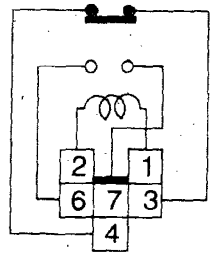
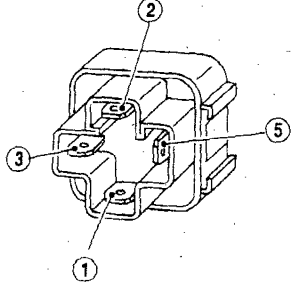
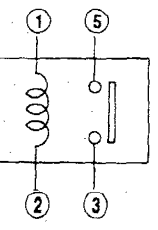
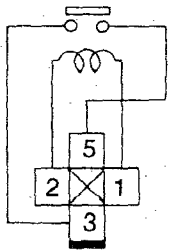
1M ..... 1 Make      2M ..... 2 Make  
 1T ..... 1 Transfer      1M±1B..... 1 Make 1 Break



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# STANDARDIZED RELAYS

## Description (Cont'd)

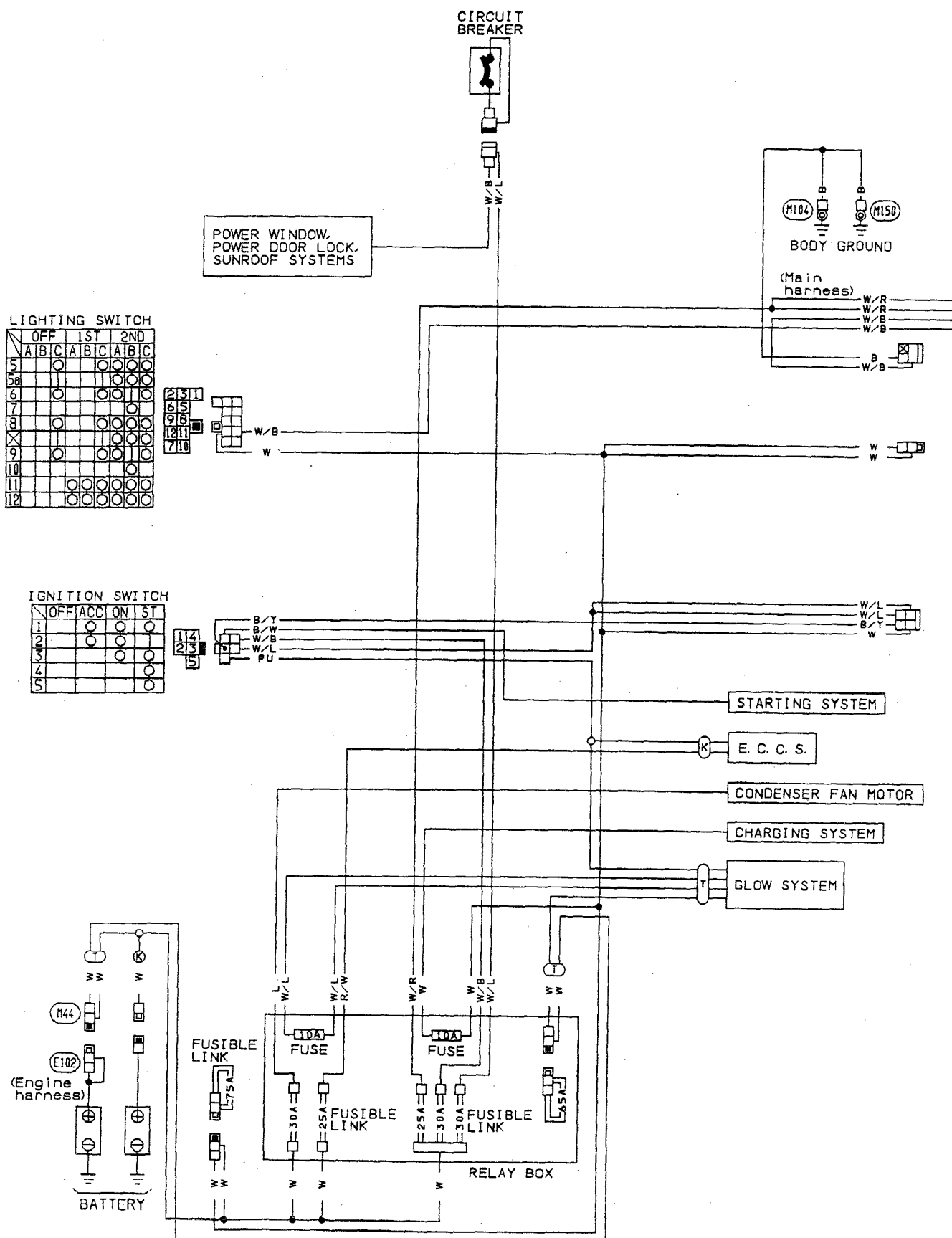
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
1M				BLUE or GREEN
2M				BROWN
1M-1B				GRAY
1M				BLACK

MEL202B

## POWER SUPPLY ROUTING

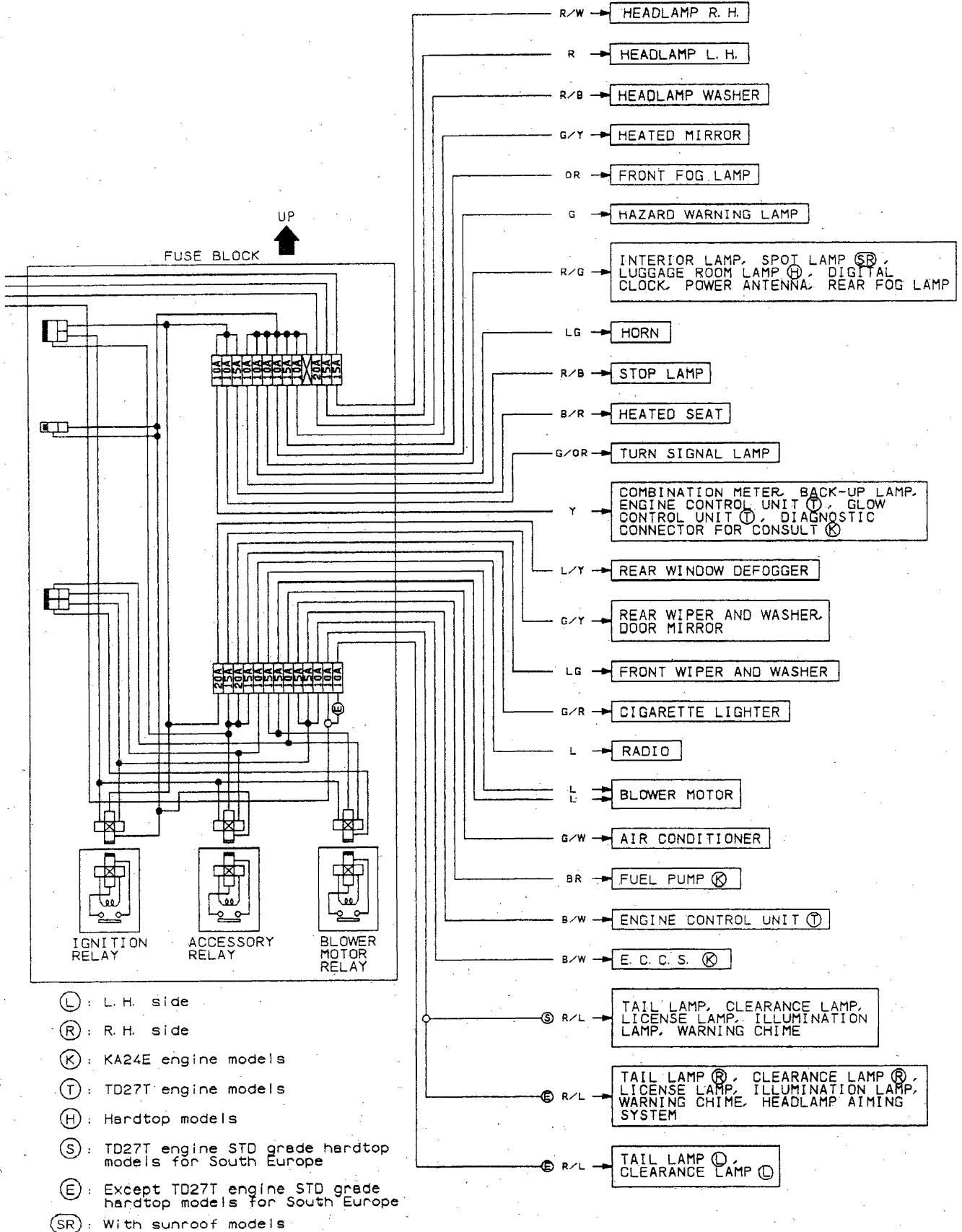
## Wiring Diagram

### L.H.D. MODELS (WITHOUT DAYTIME LIGHT SYSTEM)



# POWER SUPPLY ROUTING

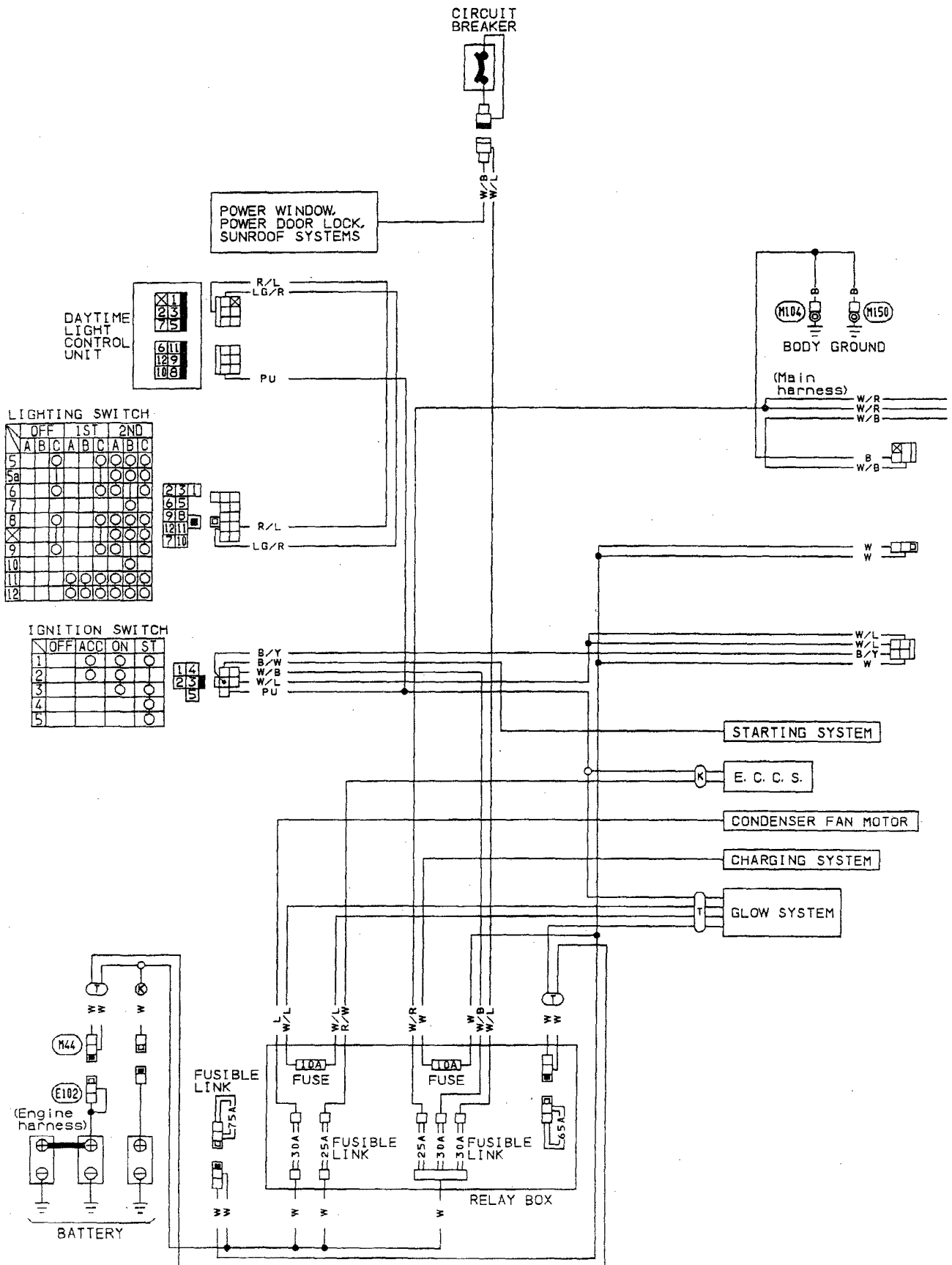
## Wiring Diagram (Cont'd)



# POWER SUPPLY ROUTING

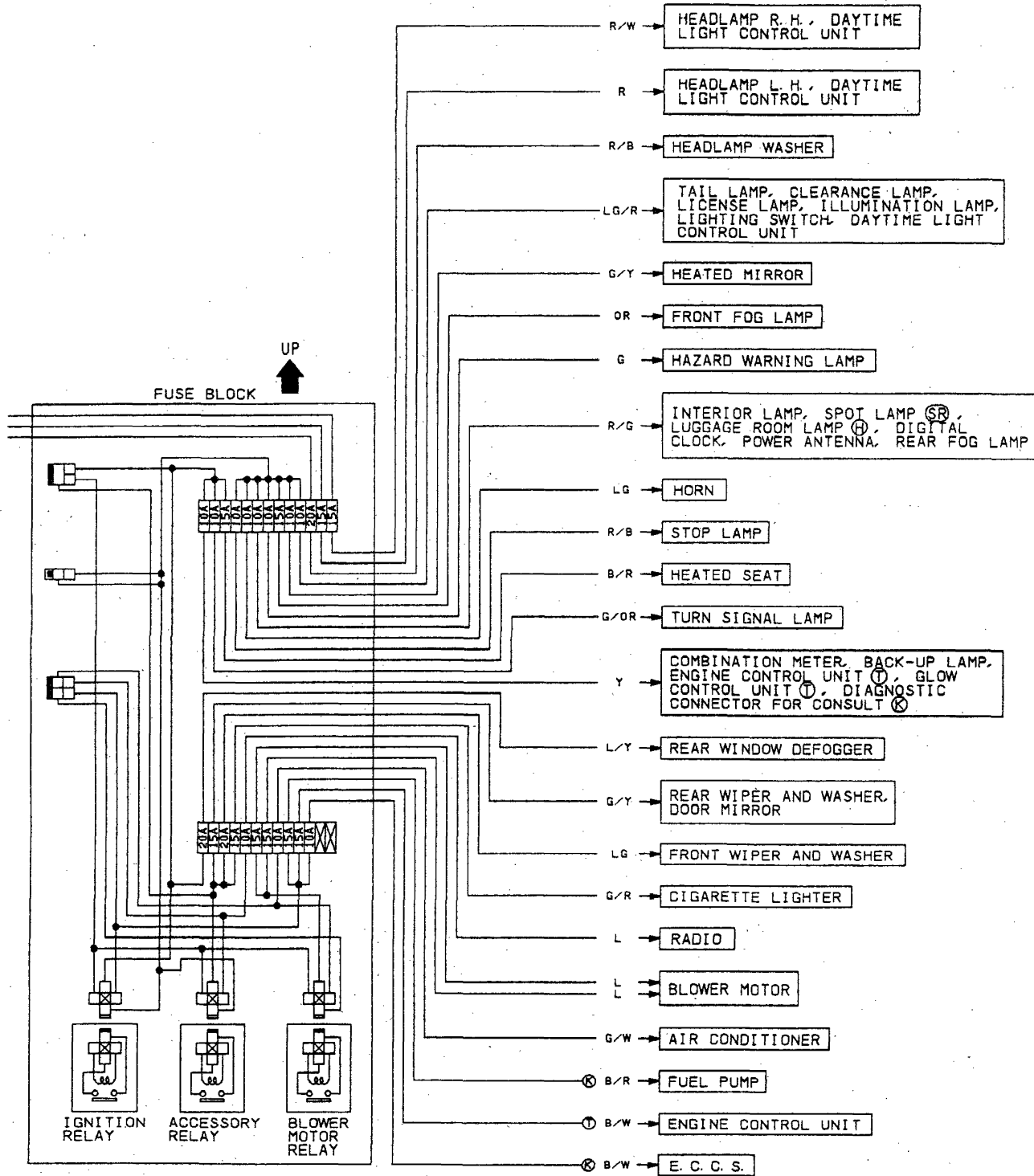
## Wiring Diagram (Cont'd)

### L.H.D. MODELS (WITH DAYTIME LIGHT SYSTEM)



# POWER SUPPLY ROUTING

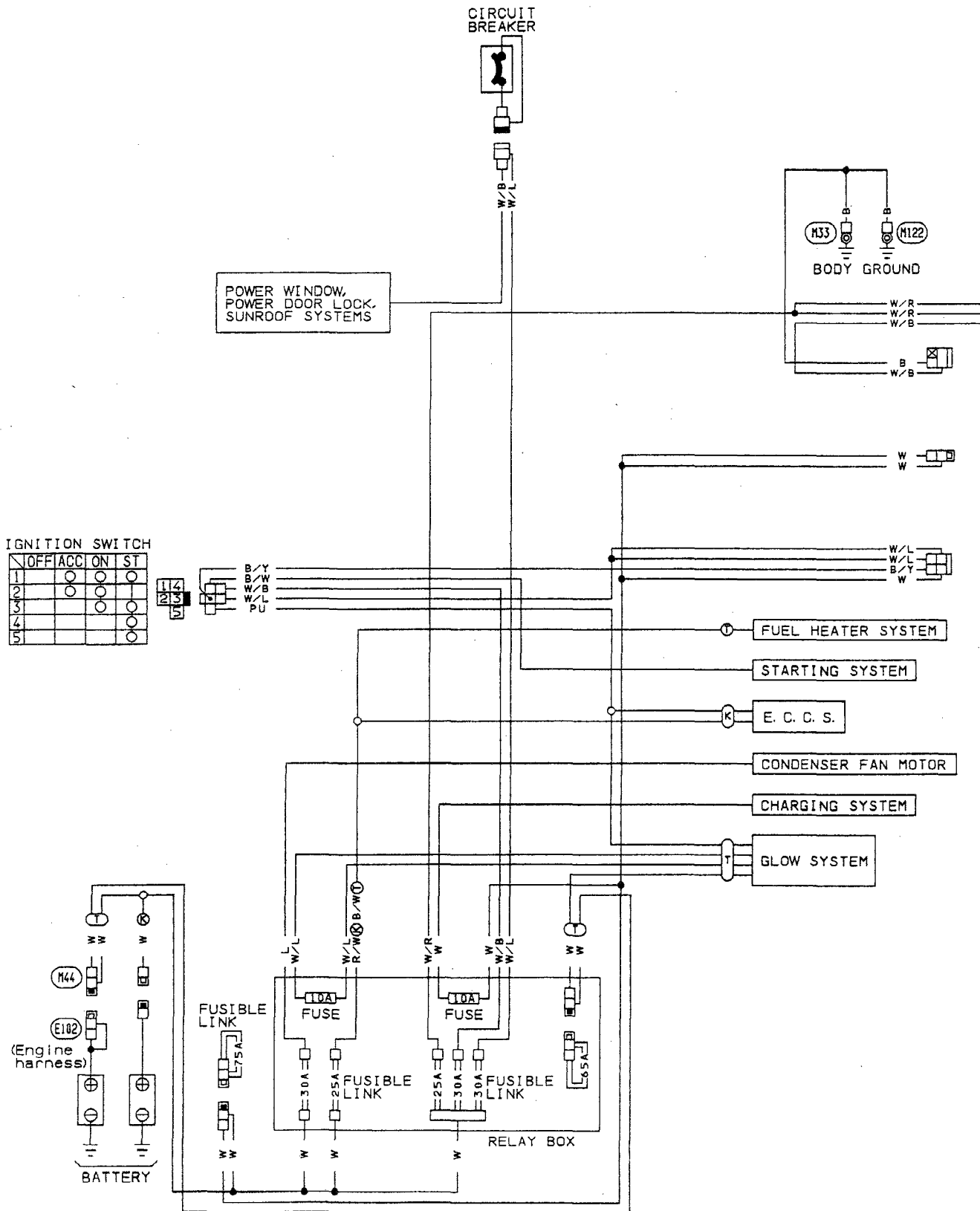
## Wiring Diagram (Cont'd)



- (K) : KA24E engine models
- (T) : TD27T engine models
- (SR) : With sunroof models
- (H) : Hardtop models

## Wiring Diagram (Cont'd)

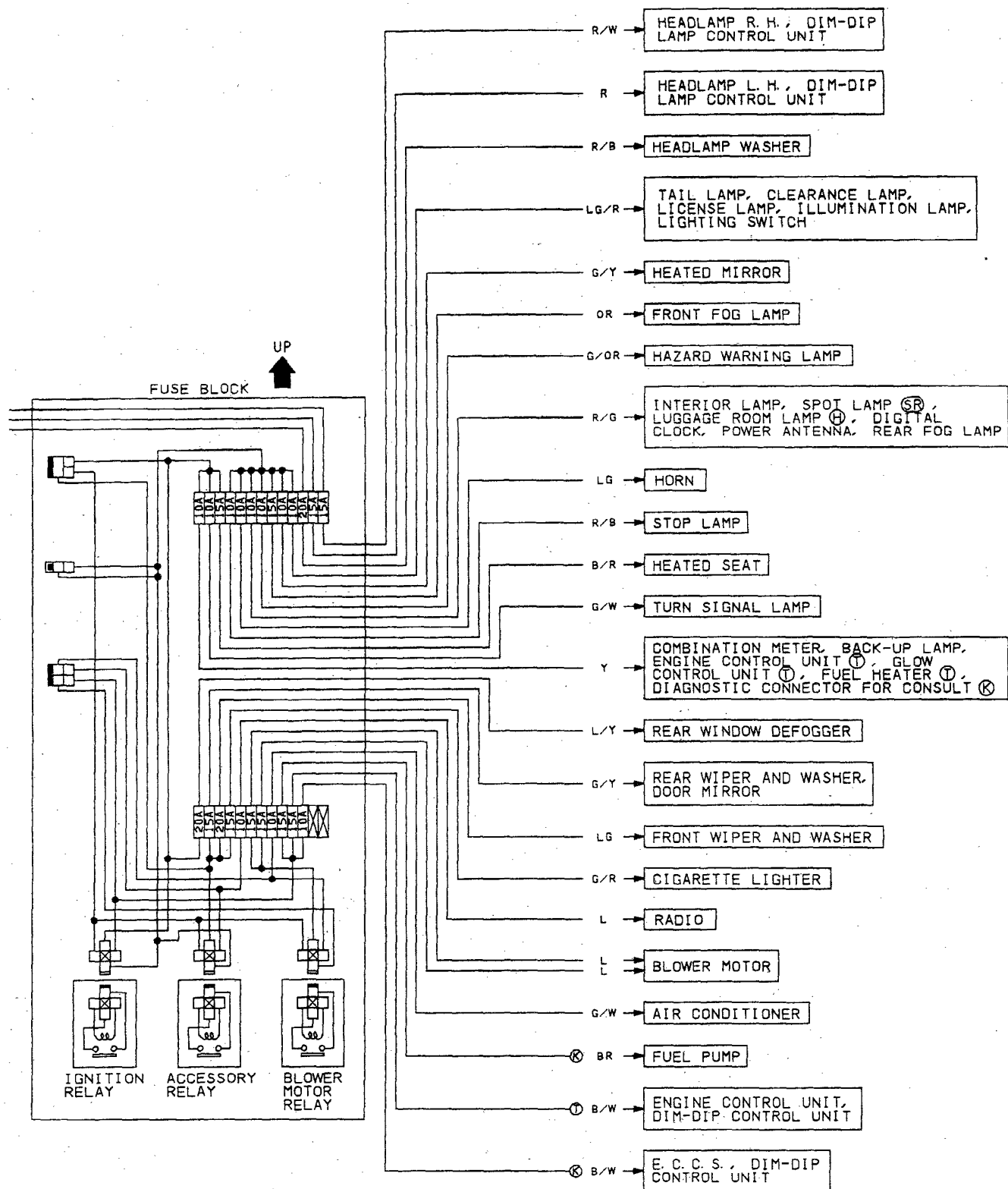
## R.H.D. MODELS





# POWER SUPPLY ROUTING

## Wiring Diagram (Cont'd)

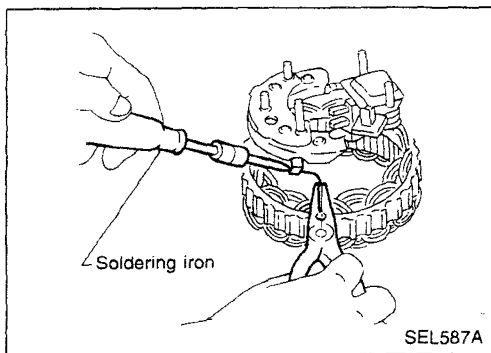


(K) : KA24E engine models

(T) : TD27T engine models

(SR) : With sunroof models

(H) : Hardtop models

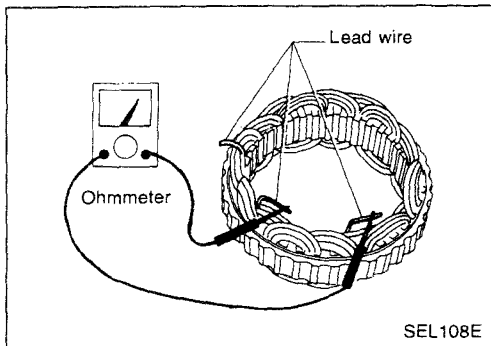


## Stator Check

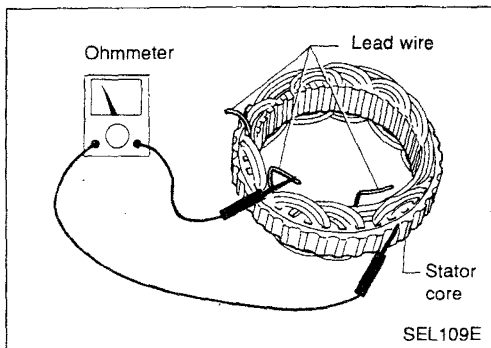
To test the stator or diode, separate them by unsoldering the connecting wires.

### CAUTION:

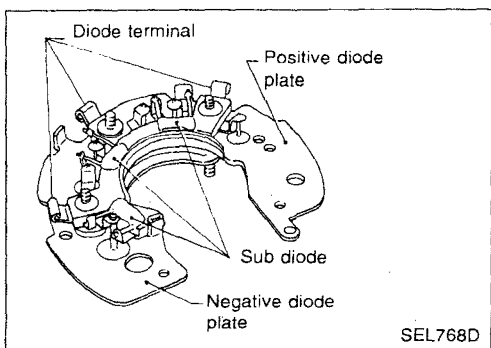
Use only as much heat as required to melt solder. Otherwise, diodes will be damaged by excessive heat.



1. Continuity test
  - No continuity ... Replace stator.



2. Ground test
  - Continuity exists ... Replace stator.



## MAIN DIODES

- Use an ohmmeter to check condition of diodes as indicated in chart below.
- If any of the test results is not satisfactory, replace diode assembly.

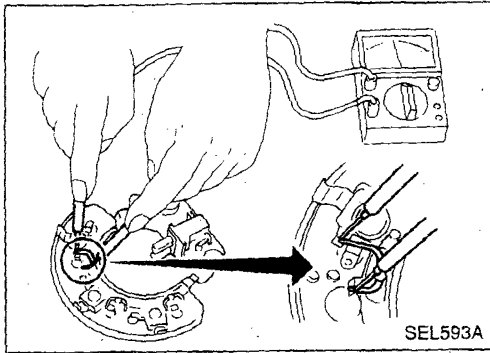
Ohmmeter probes		Continuity
Positive $\oplus$	Negative $\ominus$	
Positive diode plate	Diode terminals	Yes
Diode terminals	Positive diode plate	No
Negative diode plate	Diode terminals	No
Diode terminals	Negative diode plate	Yes

## CHARGING SYSTEM — Alternator —

### Stator Check (Cont'd)

#### SUB-DIODES

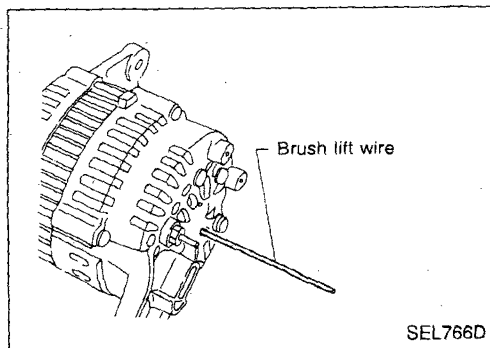
- Attach ohmmeter's probe to each end of diode to check for continuity.
- Continuity is N.G. ... Replace diode assembly.



### Assembly

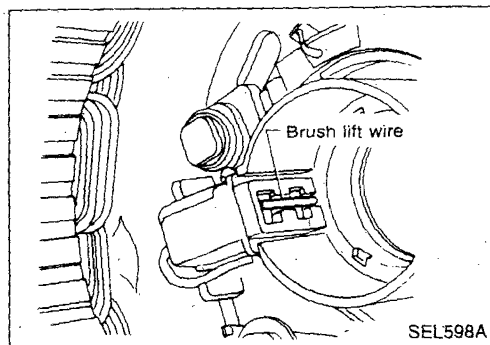
Carefully observe the following instructions.

- When soldering each stator coil lead wire to diode assembly terminal, carry out the operation as fast as possible.



### REAR COVER INSTALLATION

1. Before installing front cover with pulley and rotor with rear cover, push brush up with fingers and retain brush by inserting brush lift wire into brush lift hole from outside.
2. After installing front and rear sides of alternator, pull out brush lift wire.



# CHARGING SYSTEM — Alternator —

## Service Data and Specifications (S.D.S.)

### ALTERNATOR

Type		LR170-407T	9.120.334.632	0.123.115.008
		HITACHI	BOSCH	
Engine		TD27T		KA24E
		North Europe	Rest of Europe	
Nominal rating	V-A	12-70	12-60	12-65
Ground polarity		Negative		
Minimum revolution under no-load (When 13.5 volts is applied)	rpm	1,000	1,050	
Hot output current	A/rpm	23/1,300	17.5/1,300	24/1,500
		63/2,500	48.5/2,500	54/2,500
		87/5,000	60.5/5,000	65/5,000
Regulated output voltage	V	14.1 - 14.7		

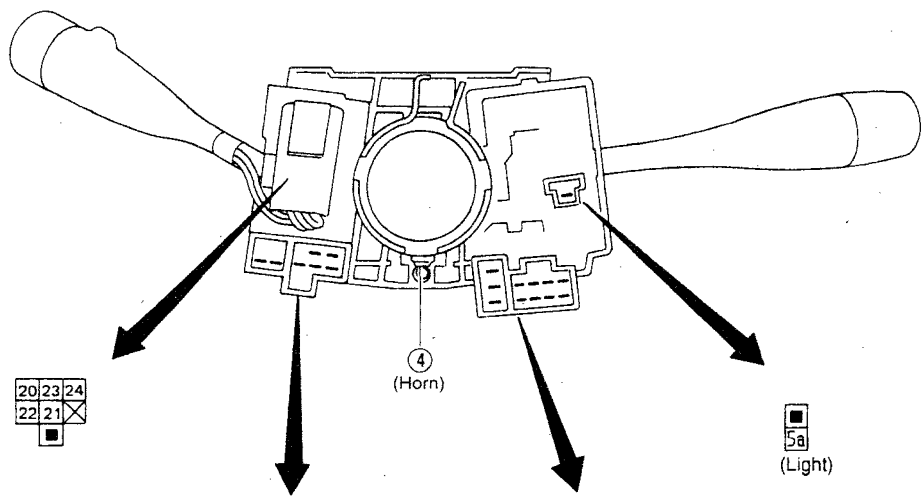
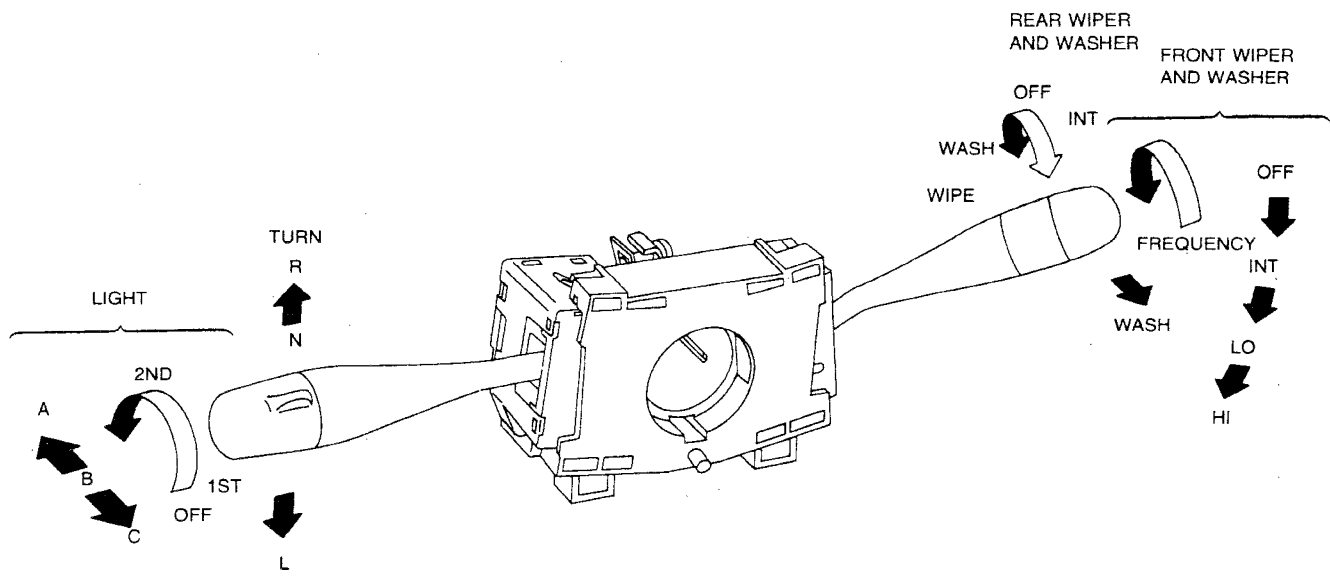
## CHARGING SYSTEM — Alternator —

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### NOTE

COMBINATION SWITCH

Check



(Intermittent wiper frequency, rear wiper and washer)

20	23	24
22	21	X
■		

(4)  
(Horn)

X	X	X	19	18
13	14	15	16	17
■				

(Front wiper and washer)

1		■		
3	5	8	11	10
2	6	9	12	7

(Light and turn)

■
5a

(Light)

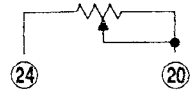
LIGHTING SWITCH

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

FRONT WIPER AND WASHER SWITCH

	OFF	INT	LO	HI	WASH
13	○	○			
14		○	○		
15		○			
16				○	
17		○	○	○	
18					○
19					○

INTERMITTENT WIPER FREQUENCY



REAR WIPER AND WASHER SWITCH (WITH INTERMITTENT REAR WIPER)

	WIPE	WASH	OFF	INT	WIPE
21				○	
22					○
23	○			○	
24	○			○	○

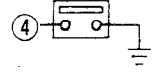
(Without intermittent rear wiper)

	WIPE	WASH	OFF	WIPE	WASH
21	○			○	
23	○			○	
24	○			○	○

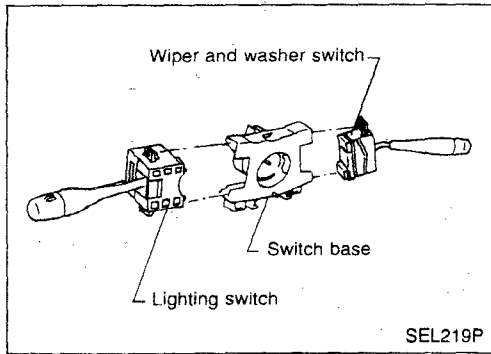
TURN SIGNAL SWITCH

	L	N	R
1	○		○
2		○	
3	○		

HORN SWITCH

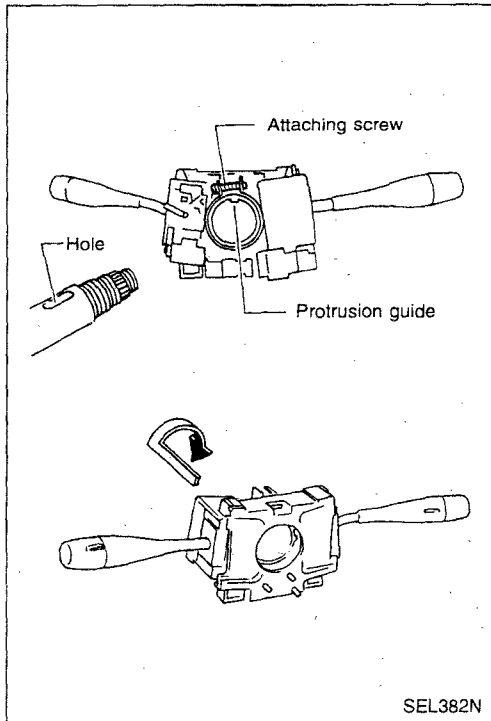


## COMBINATION SWITCH



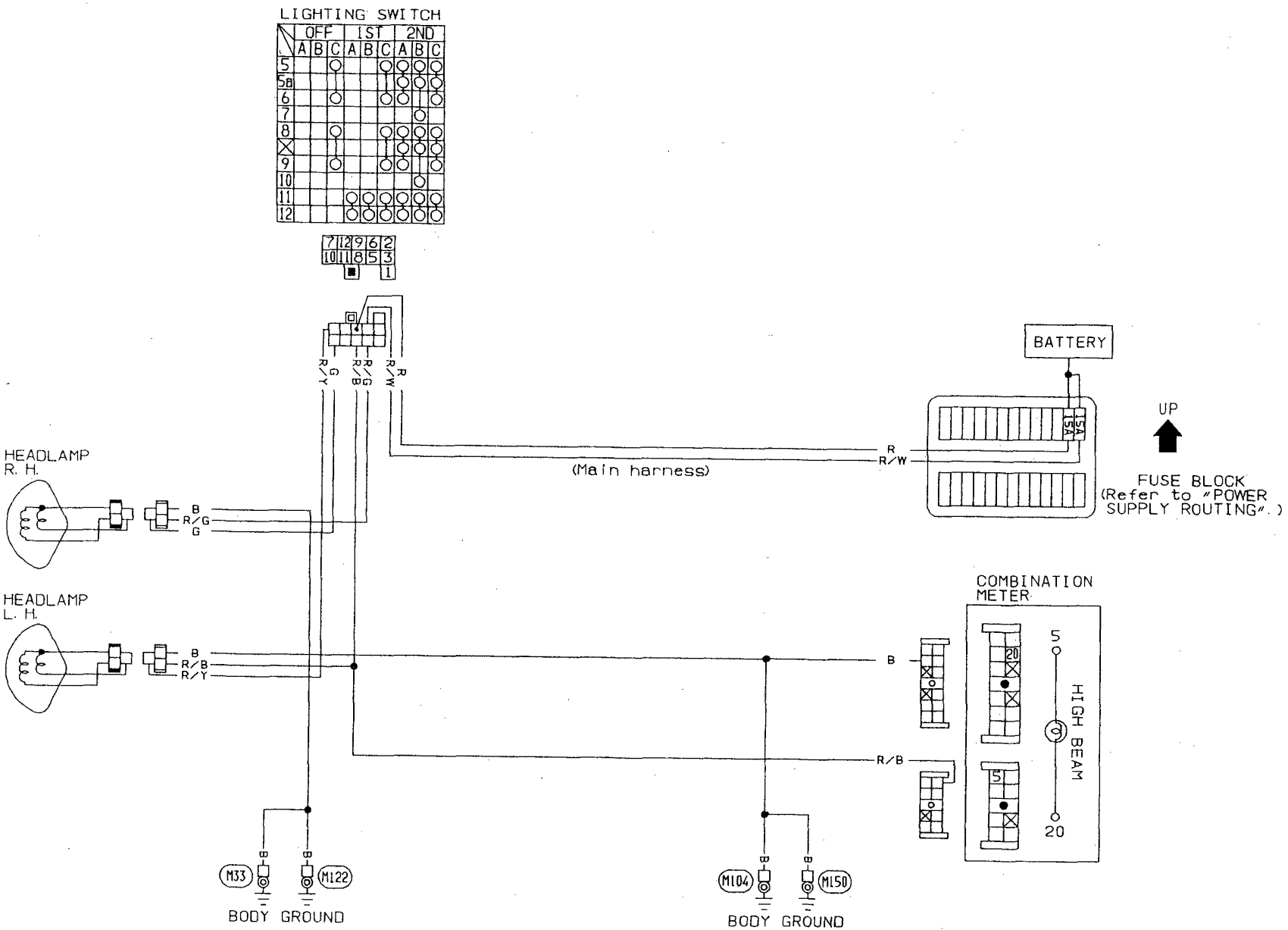
### Replacement

- Each switch can be replaced without removing combination switch base.



- To remove combination switch base, remove base attaching screw and turn after pushing on it.

## Wiring Diagram





# HEADLAMP — Daytime Light System —

## Operation

After starting the engine with the lighting switch in the "OFF" position, the headlamp low beam and clearance, tail, license and instrument illumination lamps automatically turn on. Lighting switch operations other than the above are the same as conventional light systems.

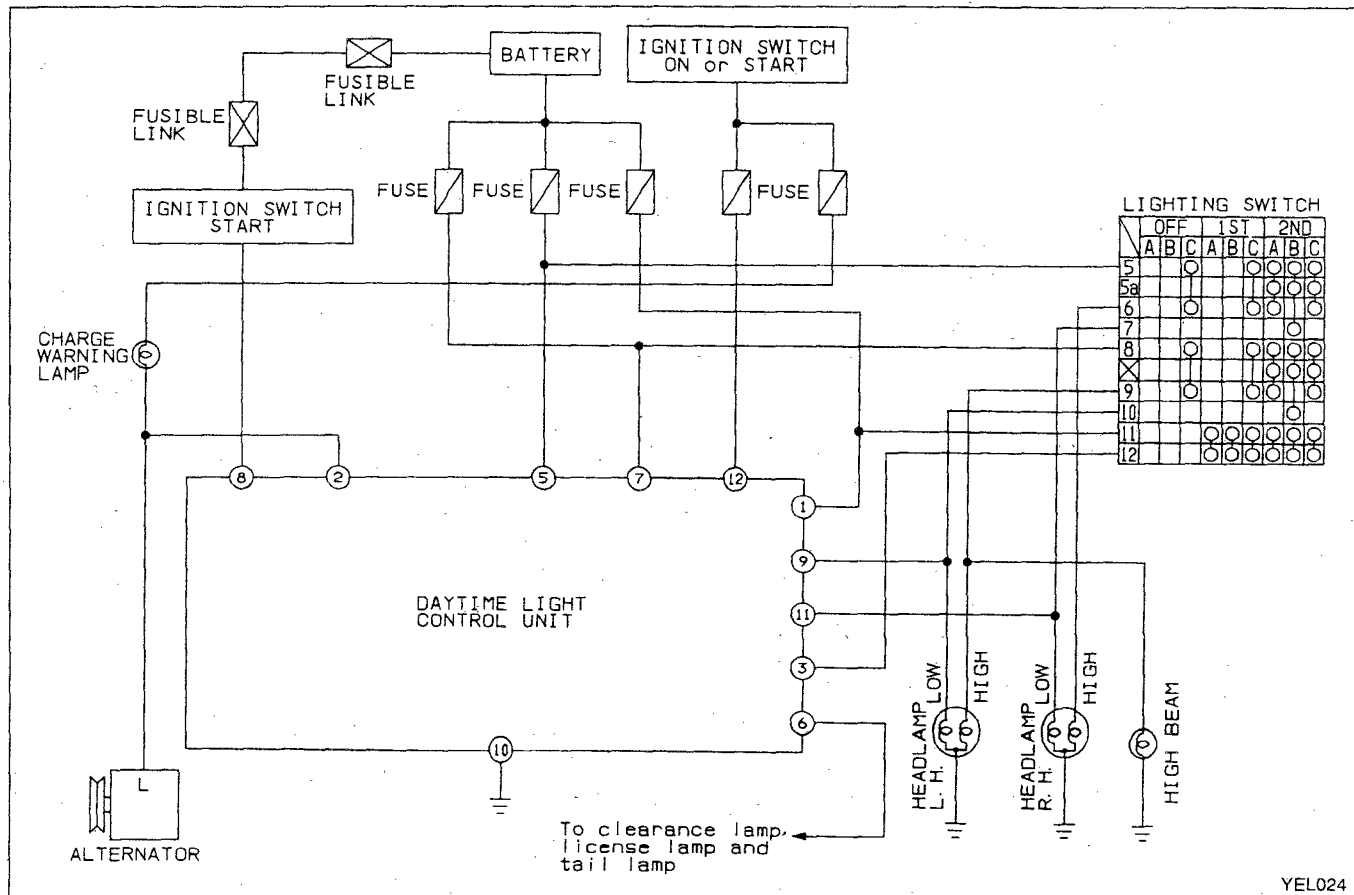
Engine		With engine stopped									With engine running								
Lighting switch		OFF			1ST			2ND			OFF			1ST			2ND		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Headlamp	High beam	X	X	O	X	X	O	O	X	O	X	X	O	X	X	O	O	X	O
	Low beam	X	X	X	X	X	X	X	O	X	O	O	O	X	X	X	X	O	X
Clearance and tail lamp		X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
License and instrument illumination lamp		X	X	X	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

O: Lamp "ON"

X: Lamp "OFF"

■: Added functions

## Schematic



YEL024

# HEADLAMP — Daytime Light System —

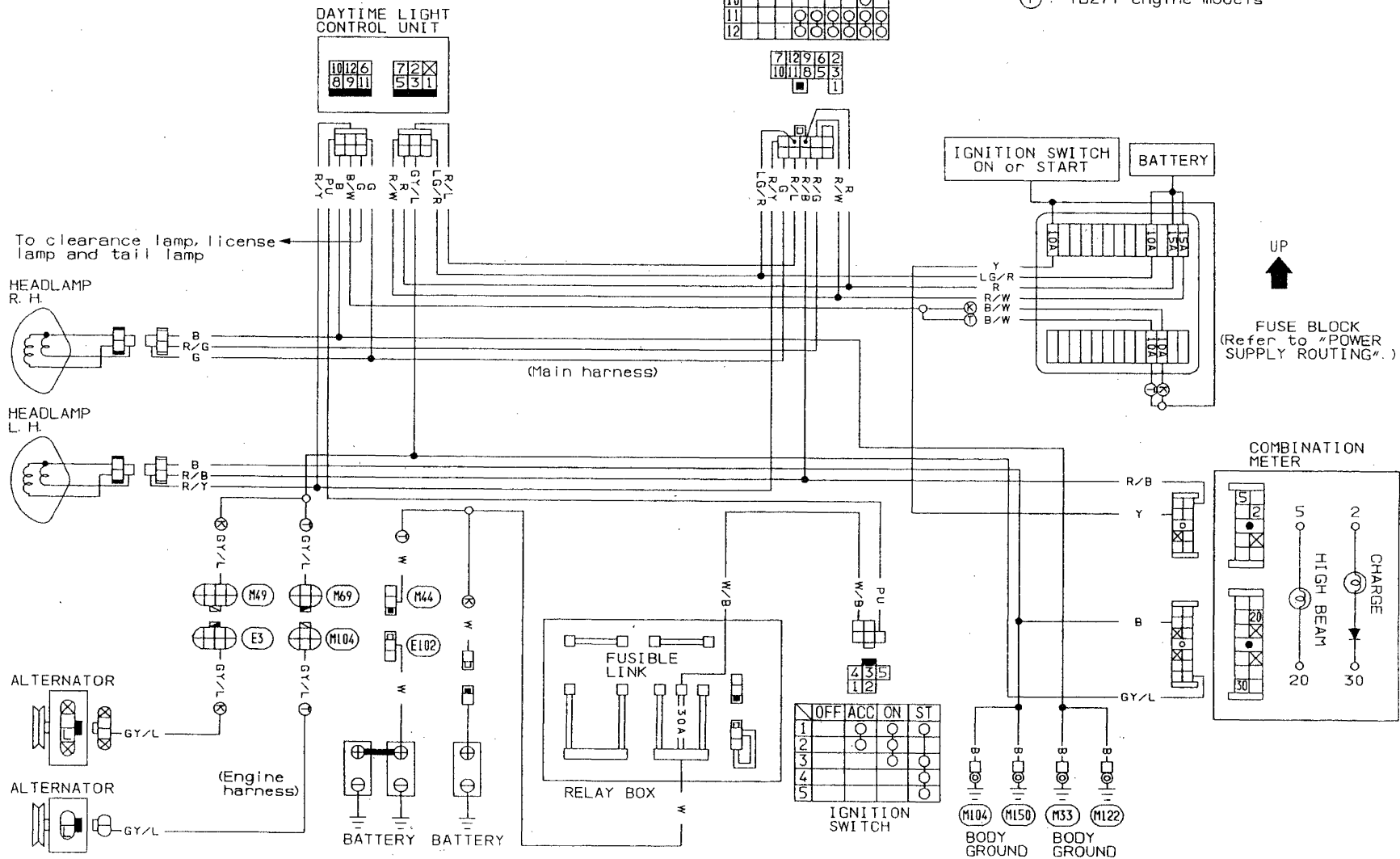
## Wiring Diagram

LIGHTING SWITCH

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

(K) : KE24E engine models

(T) : TD27T engine models



HEADLAMP — Dim-dip Lamp System —

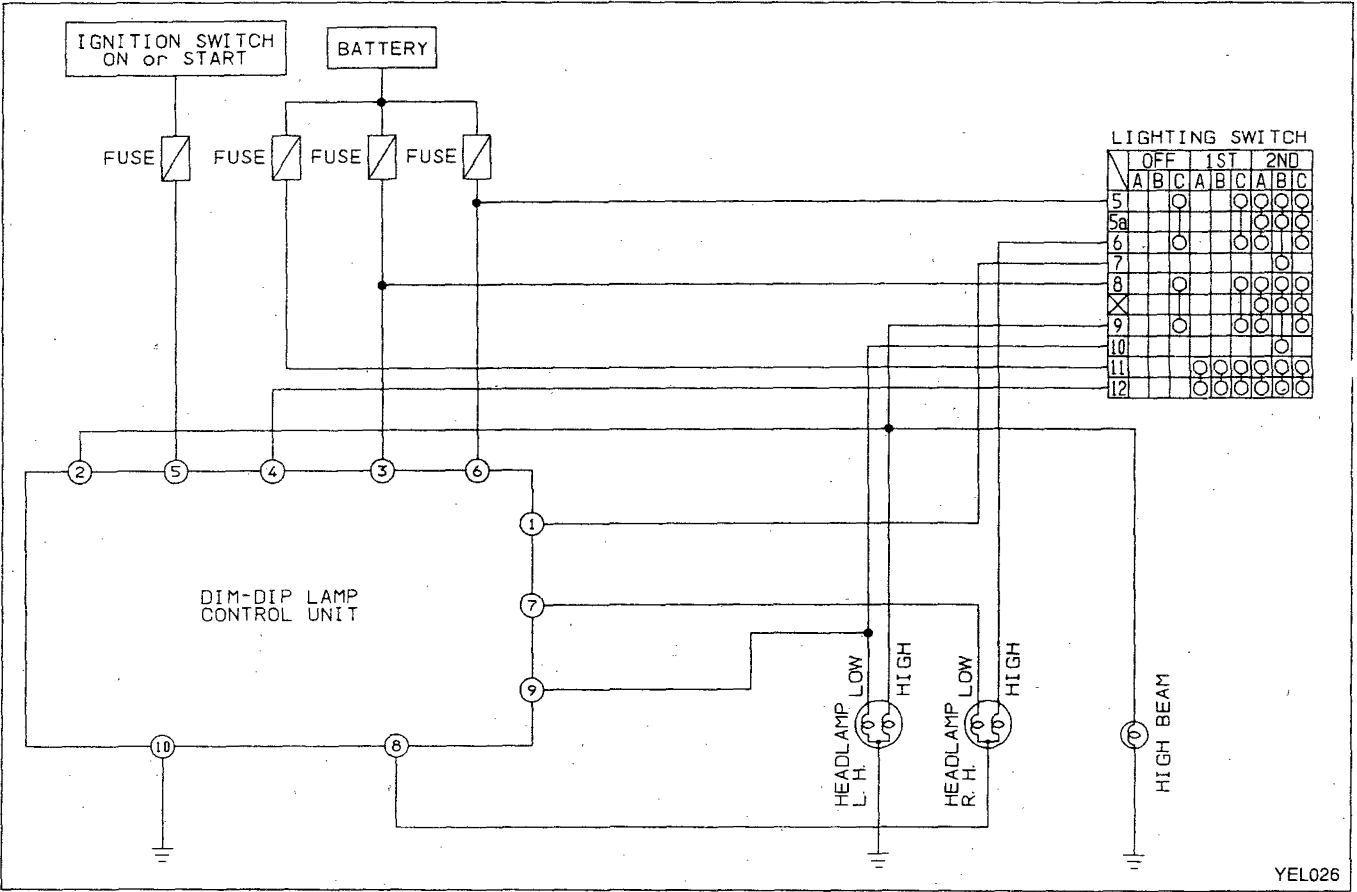
Operation

When ignition switch is in the "ON" position with the lighting switch in the "1ST" position, the headlamp low beam comes on dimly to function as a clearance lamp. Lighting switch operations other than the above are the same as conventional light systems.

Ignition switch		OFF or ACC									ON								
Lighting switch		OFF			1ST			2ND			OFF			1ST			2ND		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Headlamp	High beam	X	X	O	X	X	O	O	X	O	X	X	O	X	X	O	O	X	O
	Low beam	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	O	X
	Dim-dip (Low beam)	X	X	X	X	X	X	X	X	X	X	X	X	O	O	X	X	X	X
Clearance and tail lamp		X	X	X	O	O	O	O	O	O	X	X	X	O	O	O	O	O	O
License and instrument illumination lamp		X	X	X	O	O	O	O	O	O	X	X	X	O	O	O	O	O	O

O: Lamp "ON"  
X: Lamp "OFF"  
◻: Added functions

Schematic



YEL026

# HEADLAMP — Dim-dip Lamp System —

## Wiring Diagram

(K) : KE24E engine models

(T) : TD27T engine models

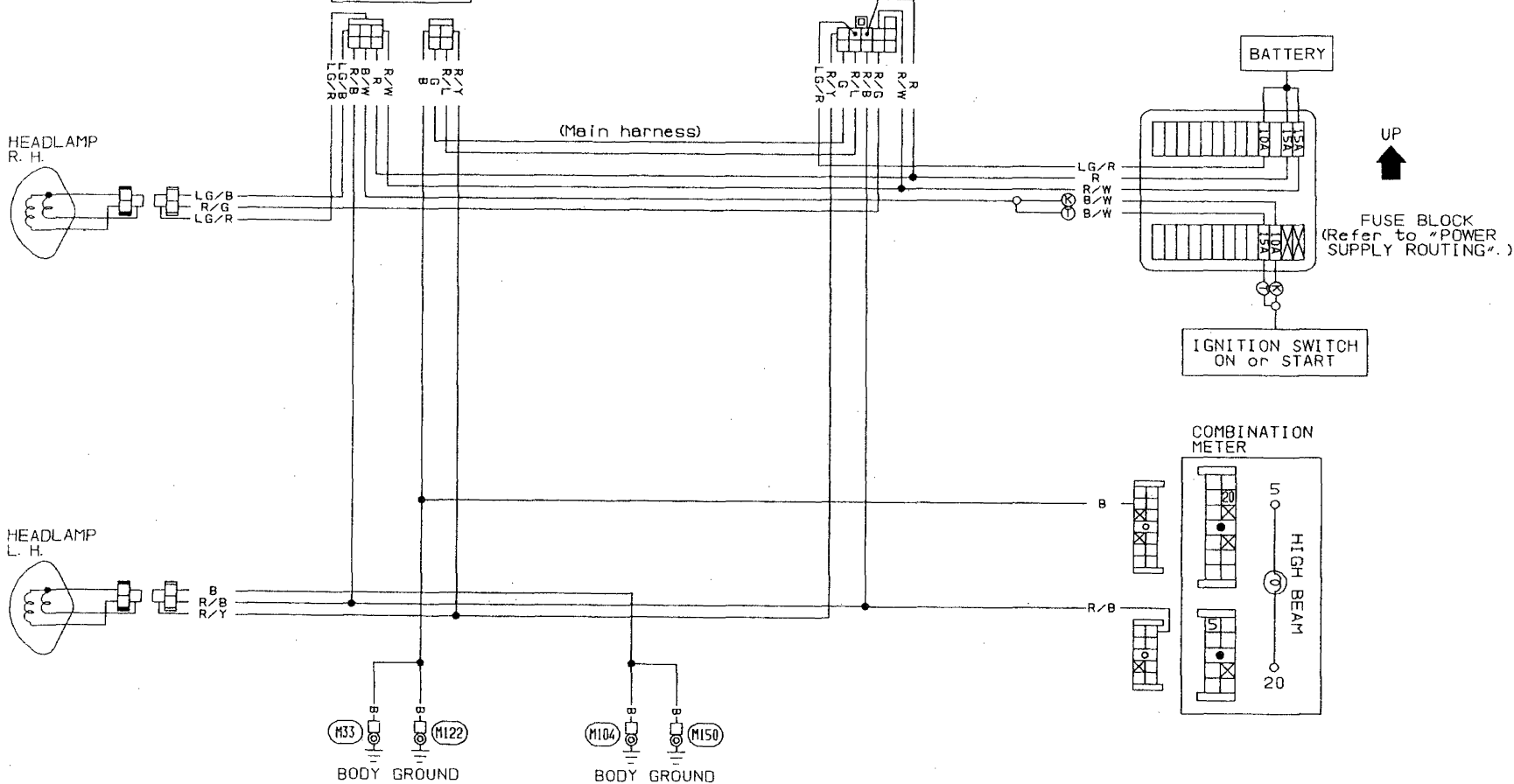
LIGHTING SWITCH

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

7	12	9	6	2
10	11	8	5	3
1				

DIM-DIP LAMP CONTROL UNIT

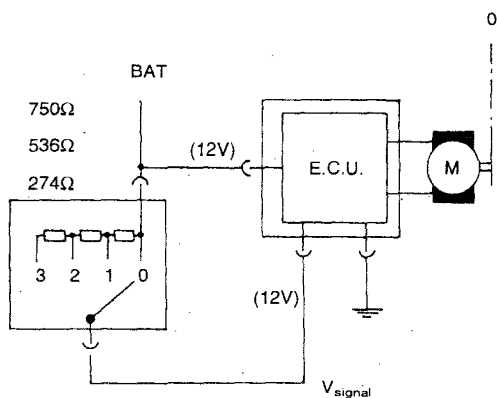
2	5	3
6	7	6
1	4	9
10	8	9



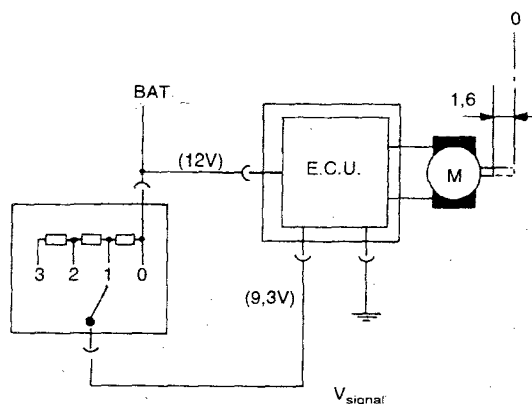
## Description

- The vertical direction of the headlamp projection can be adjusted from inside the vehicle to prevent the headlamp beam axis from facing upward due to a change in the number of occupants and load conditions in the vehicle.
- A little Electronic Control Unit (E.C.U.) is incorporated in each actuator (one for each headlamp), which compares a signal voltage ( $V_{\text{signal}}$ ), coming from the headlamp aiming switch, with battery voltage (12V). The signal voltage varies with the position of the switch. Related to the difference in voltage the actuator rod will move more or less and adjust the headlamp beam angle accordingly.

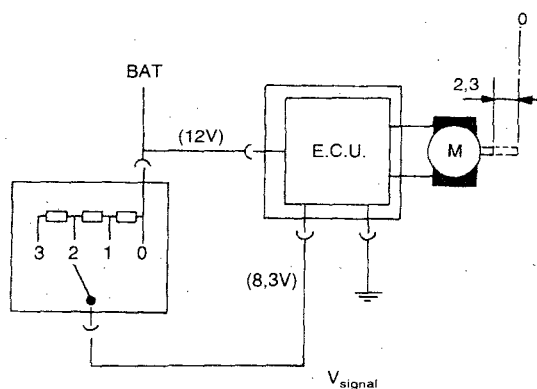
Position "0"



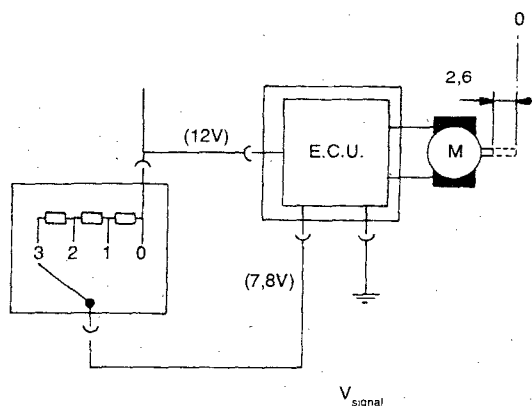
Position "1"



Position "2"



Position "3"



# HEADLAMP — Headlamp Aiming Control —

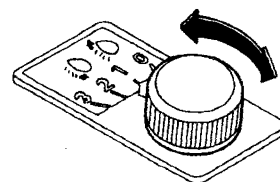
## Description (Cont'd)

Both up/down and left/right adjusting screw

Up/down adjusting screw only

Aiming motor connector  
Aiming motor unit

Aiming motor unit can not be disassembled

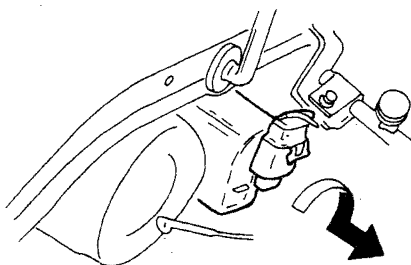


EEL017

### Replacing Headlamp Aiming Actuator

Headlamp aiming actuator can not be disassembled.

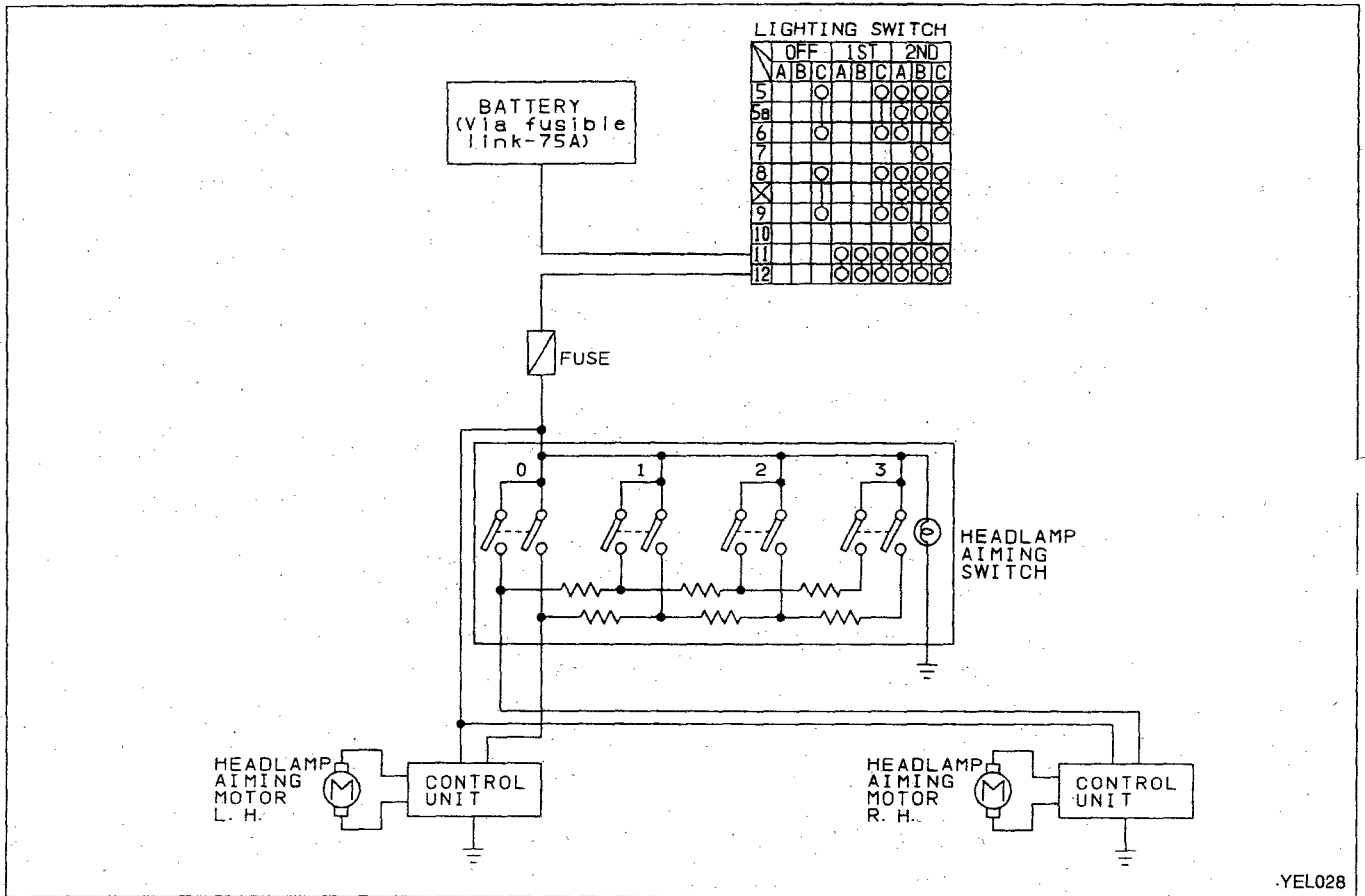
To remove aiming actuator, turn it 90° to the center of the vehicle (left and right symmetrical) and pull outward.



EEL019

# HEADLAMP — Headlamp Aiming Control —

## Schematic



# HEADLAMP — Headlamp Aiming Control —

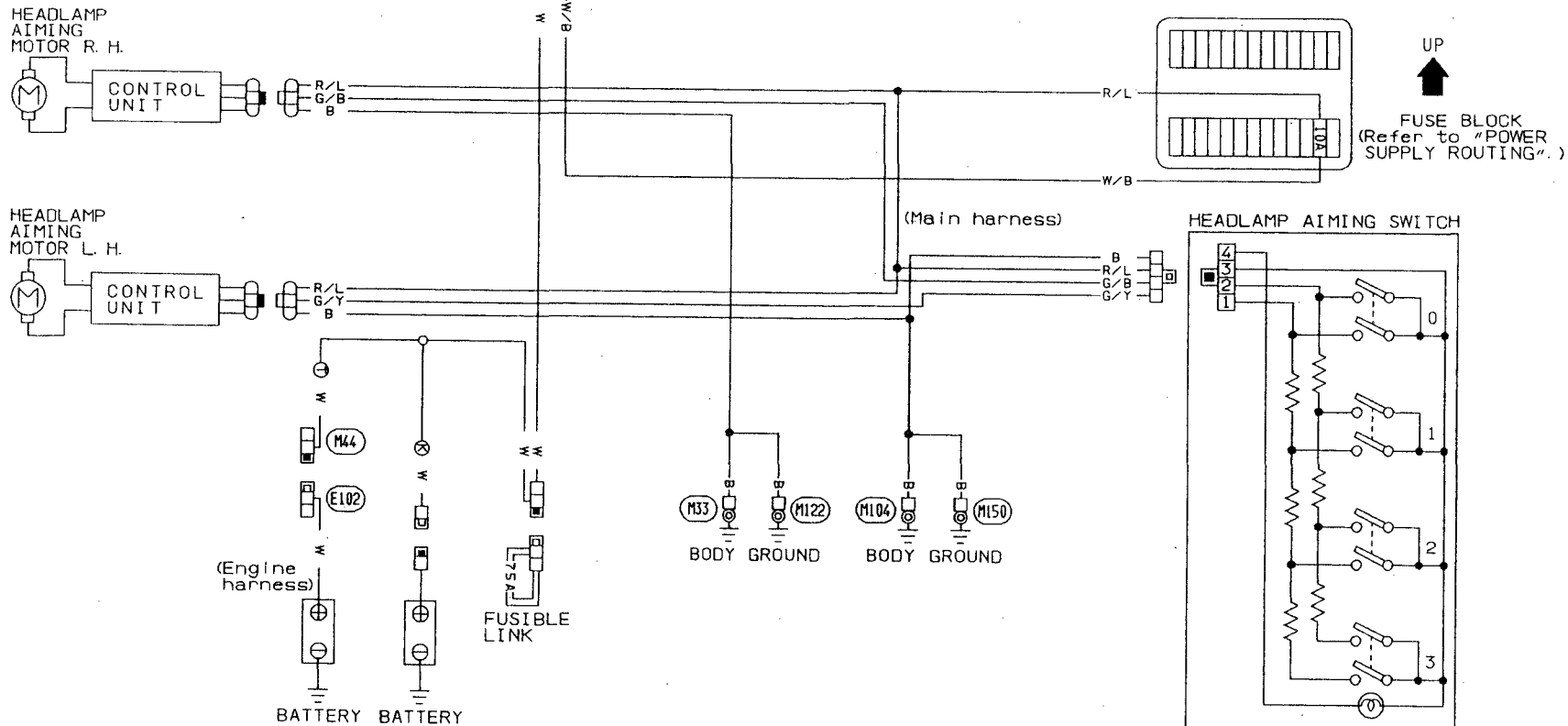
## Wiring Diagram

(K) : KA24E engine models

(T) : TD27T engine models

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

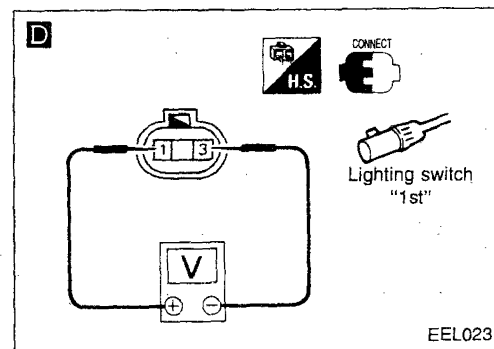
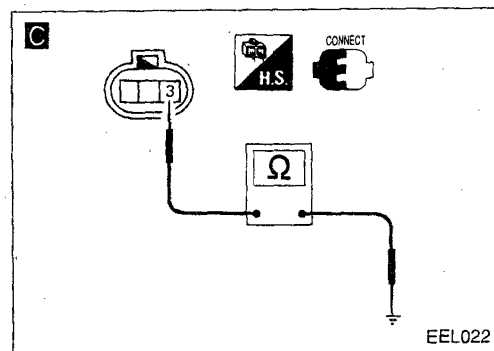
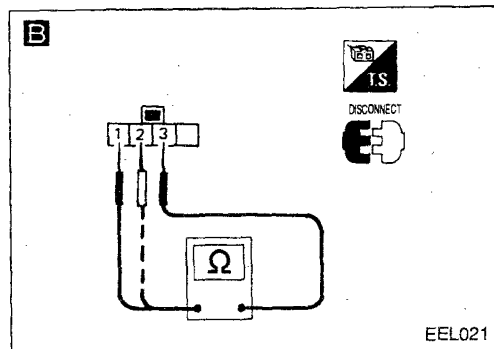
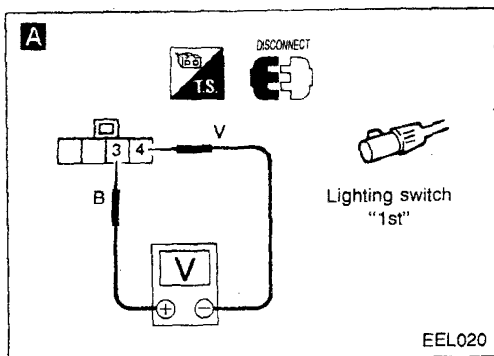
7	12	9	6	2
10	11	8	5	3
				1





## Trouble-diagnosis

**SYMPTOM: Headlamp aiming does not operate.**



**A**

**POWER SUPPLY CIRCUIT CHECK**  
(For aiming switch)  
Check if 12 volts exist between terminals ③ and ④.

Voltmeter terminals		Voltage [V]
(+)	(-)	
③	④	Approx. 12

N.G. → Check 10A fuse at fuse block.  
(Refer to "POWER SUPPLY ROUTING.")

O.K.

**B**

**AIMING SWITCH CHECK**  
Check resistance between terminal ①/② and ③ at each switch position.

Switch position	Ohmmeter terminals	
	1	3
0	0Ω	
1	750Ω	
2	1,286Ω	
3	1,560Ω	

N.G. → Replace aiming switch.

O.K.

**C**

**GROUND CIRCUIT CHECK FOR AIMING MOTOR**  
Check continuity between terminals ③ and body ground.  
**Continuity exists ... O.K.**

N.G. → Repair harness between aiming motor and body ground.

O.K.

**D**

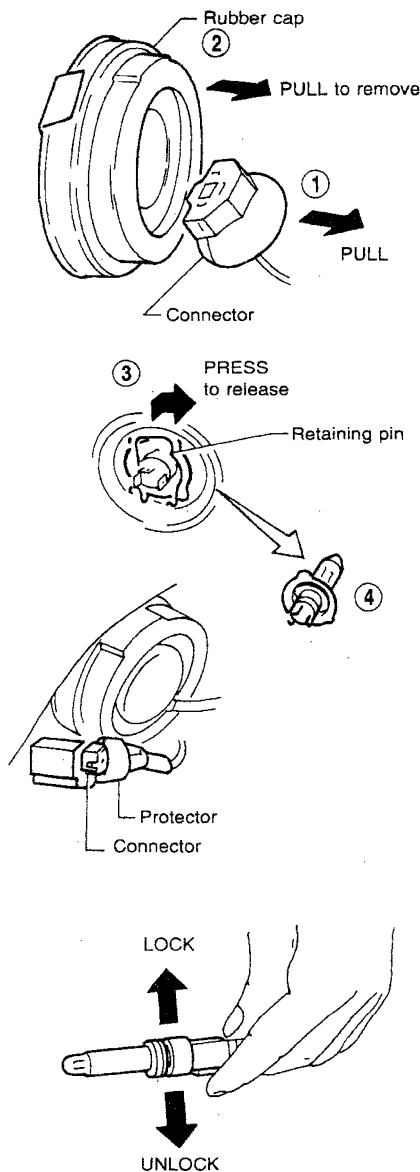
**POWER SUPPLY CIRCUIT CHECK**  
(For aiming motor unit)  
Check if 12 volts exist between terminals ① and ③.

N.G. → Check harness between aiming switch and aiming motor unit.

O.K.

Replace aiming motor unit.

Headlight and position light



EEL024

## Bulb Replacement

The headlamp is a semi-sealed beam type which uses a replaceable halogen bulb. The bulb can be replaced from the engine compartment side without removing the headlamp body.

- **Grasp only the plastic base when handling the bulb. Never touch the glass envelope.**

1. Disconnect the battery cable.
2. Disconnect the harness connector from the back side of the bulb.
3. Pull off the rubber cap.
4. Remove the headlamp bulb carefully. Do not shake or rotate the bulb when removing it.
5. Install in the reverse order of removal.

### CAUTION:

- **Do not leave the bulb out of the headlamp reflector for a long period of time as dust, moisture, smoke, etc. may enter the headlamp body and affect the performance of the headlamp. Thus, the headlamp bulb should not be removed from the headlamp reflector until just before a replacement bulb is to be installed.**

## Aiming Adjustment

When performing headlamp aiming adjustment, use an aiming machine, aiming wall screen or headlamp tester. For operating instructions, of any aimer, it should be in good repair, calibrated and used according to respective operation manuals supplied with the unit.

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

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

### CAUTION:

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

### CAUTION:

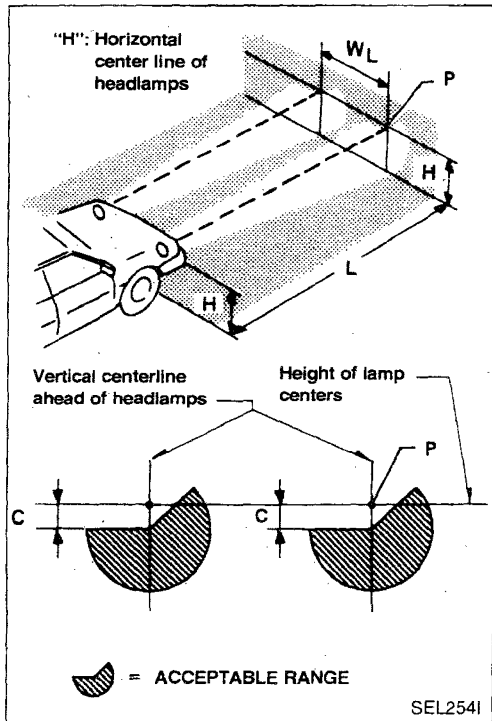
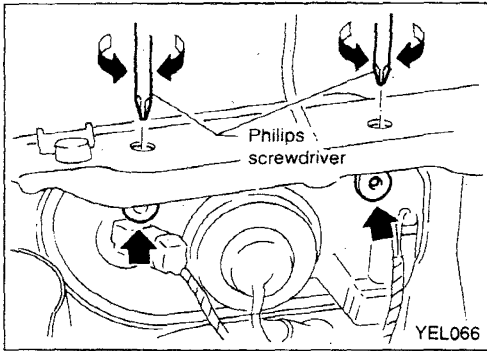
Be sure aiming switch is set to "0" when performing aiming adjustment on vehicles equipped with headlamp aiming control.

# HEADLAMP

## Aiming Adjustment (Cont'd)

### LOW BEAM

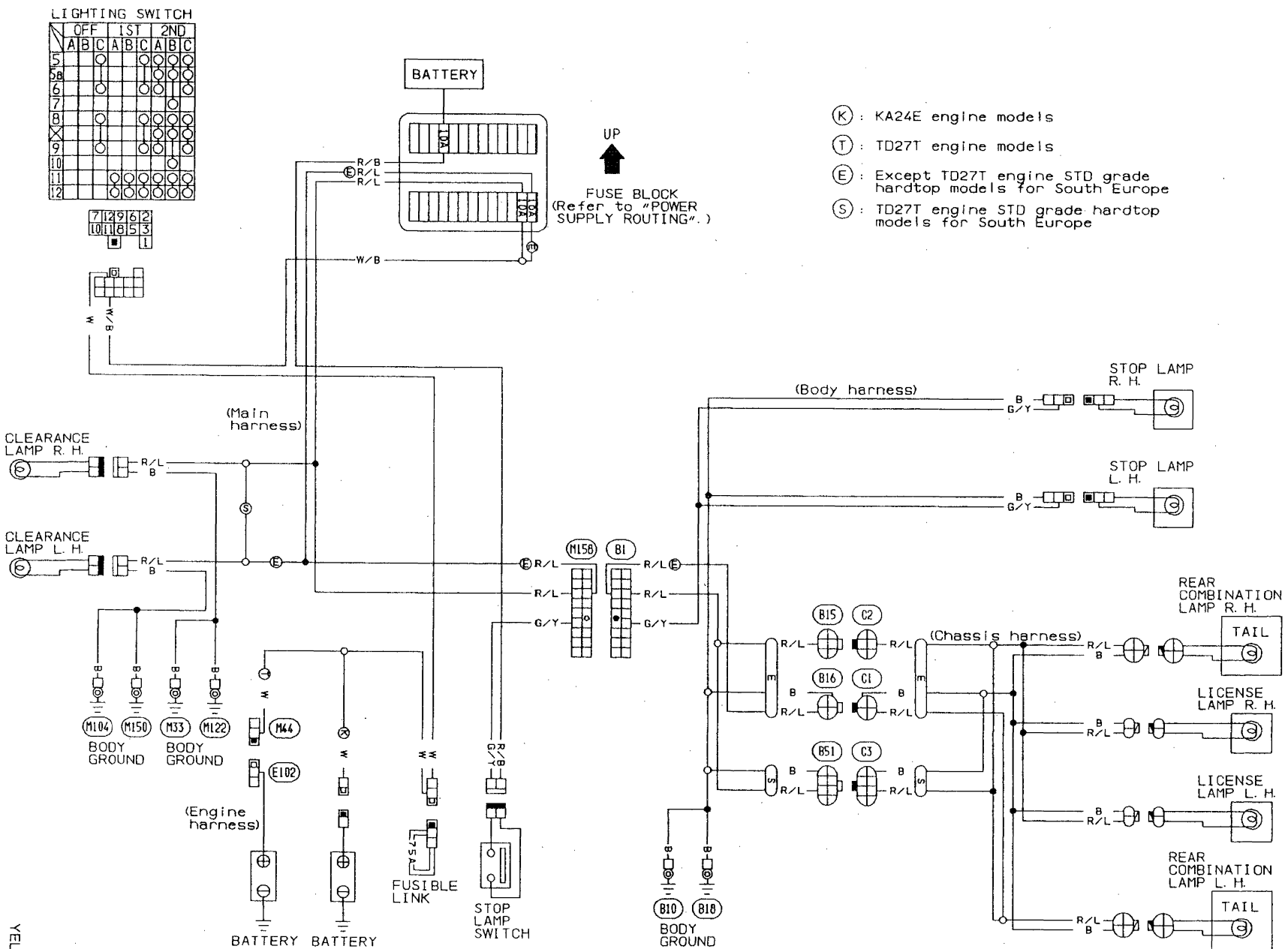
1. Turn headlamp low beam on.
  2. Use adjusting screws to perform aiming adjustment.
- First tighten the adjusting screw all the way and then make adjustment by loosening the screw.



- a. Adjust headlamps so that main axis of light is parallel to center line of body and is aligned with point P shown in illustration.
  - b. Figure to the left shows headlamp aiming pattern for driving on right side of road; for driving on left side of road aiming pattern is reversed.
  - c. Dotted lines in illustration show center of headlamp.
- "H": Horizontal center line of headlamps  
"W<sub>L</sub>": Distance between each headlamp center  
"L": 5,000 mm (196.85 in)  
"C": 65 mm (2.56 in)

# EXTERIOR LAMP

## Clearance, License, Tail and Stop Lamps/Wiring Diagram L.H.D. MODELS WITHOUT DAYTIME LIGHT SYSTEM



EL-52

YEL030

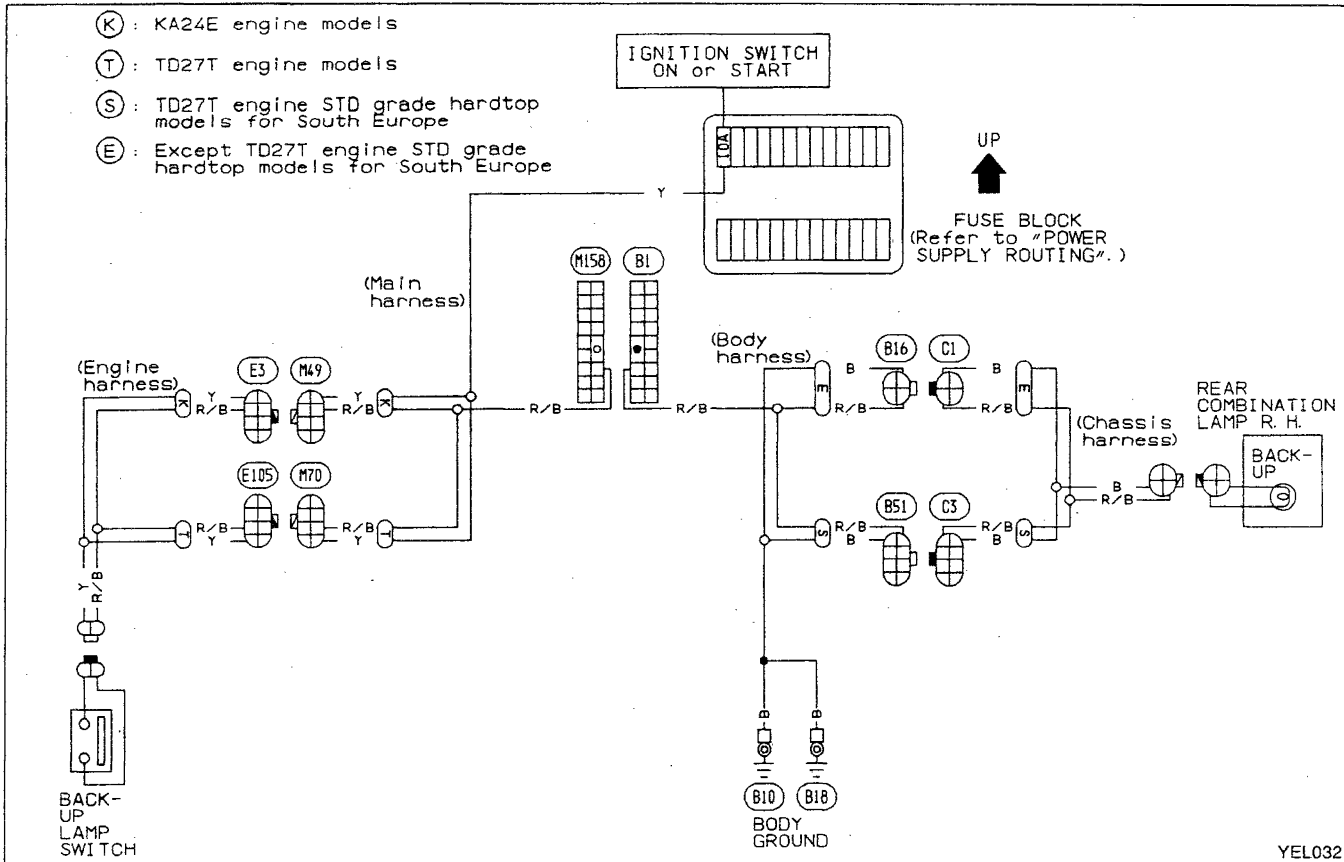
### Clearance, License, Tail and Stop Lamps/ Wiring Diagram (Cont'd)

- (K) : KA24E engine models
- (T) : TD27T engine models
- (H) : High mounted stop lamp equipped models
- (R) : R. H. D. models
- (DL) : L. H. D. models with daytime light system

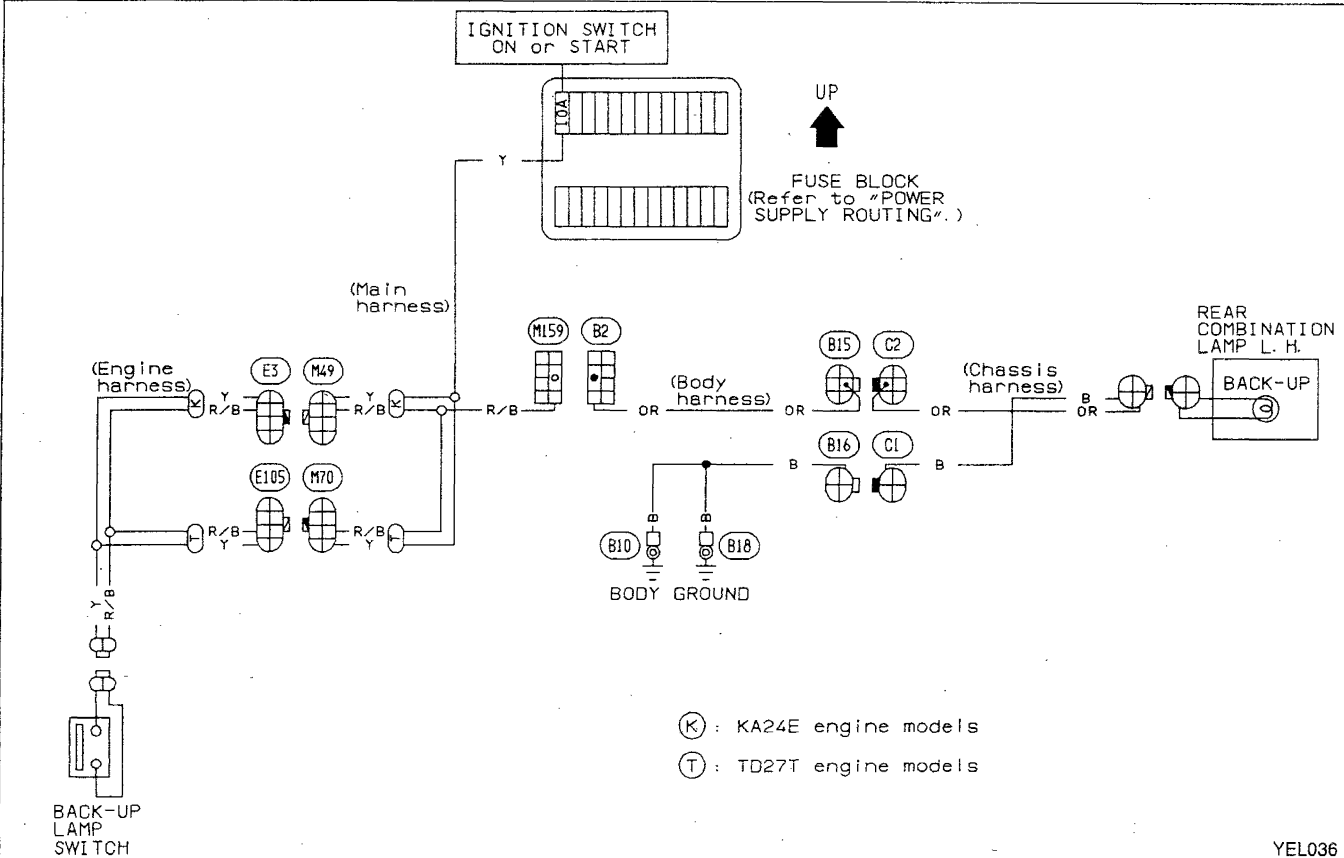


## Back-up Lamp/Wiring Diagram

### L.H.D. MODELS



### R.H.D. MODELS



## Front Fog Lamp/Wiring Diagram

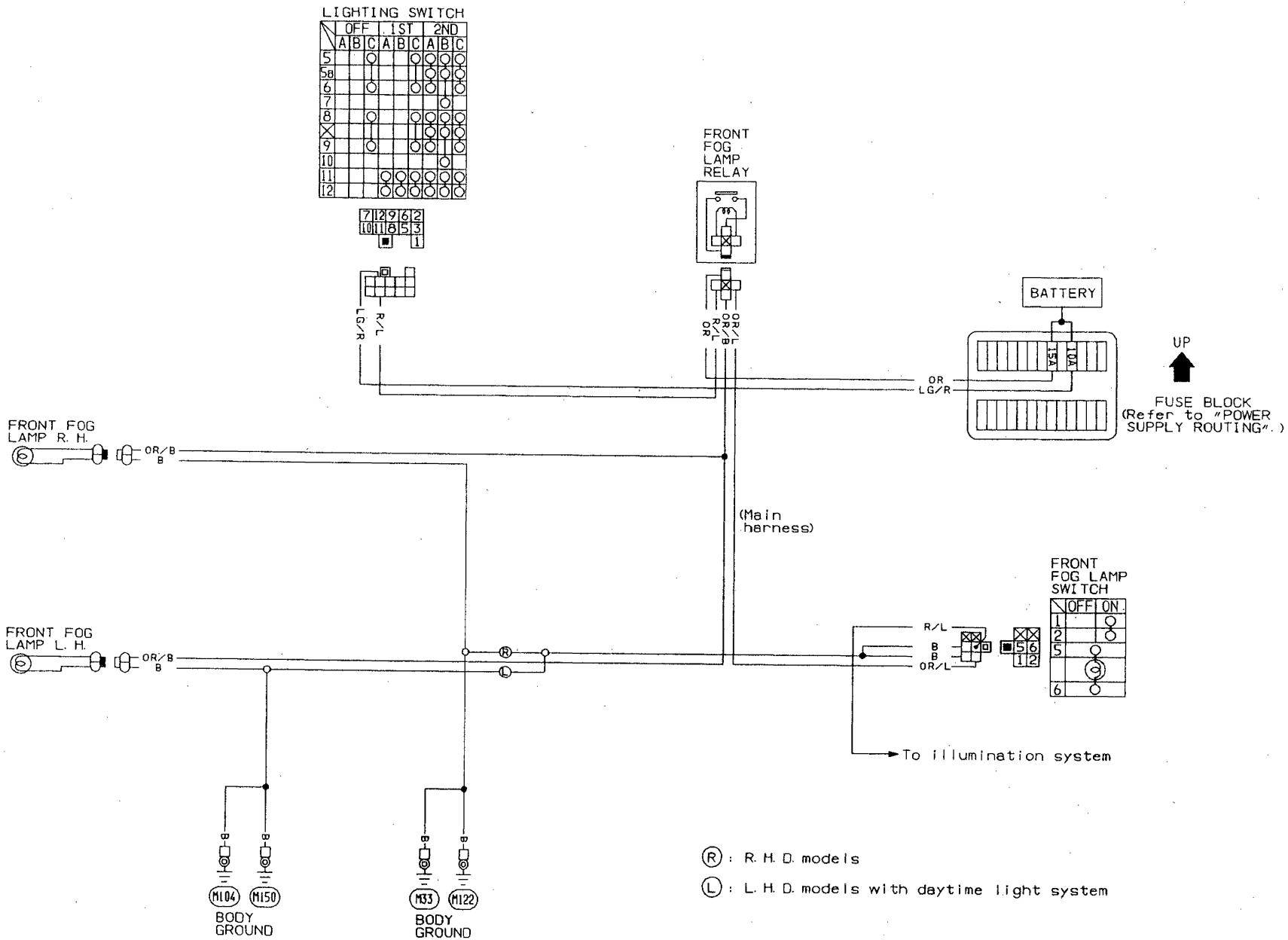
(K) : KA24E engine models  
(T) : TD27T engine models



# EXTERIOR LAMP

## Front Fog Lamp/Wiring Diagram (Cont'd)

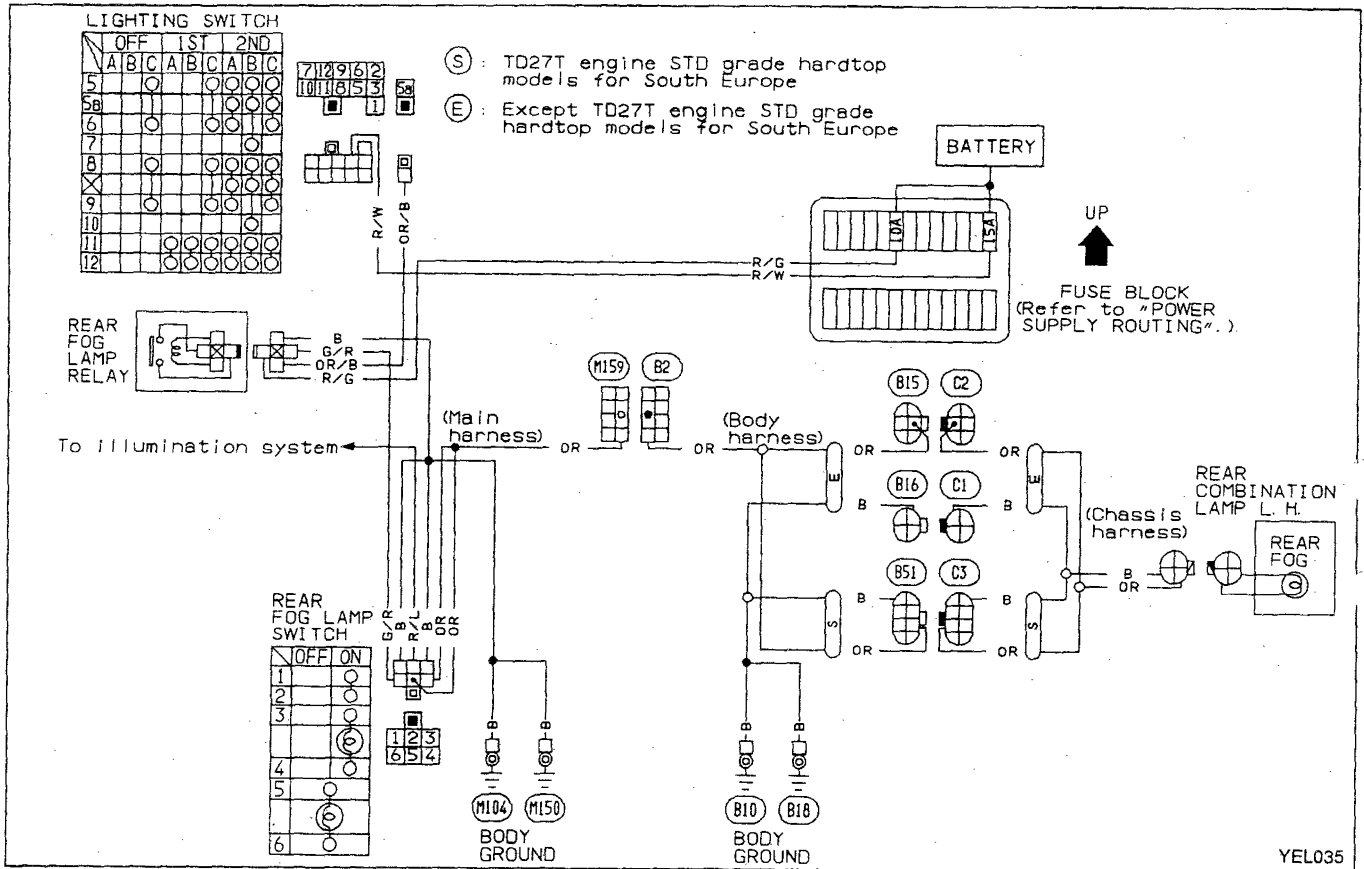
### MODELS WITH DAYTIME LIGHT SYSTEM



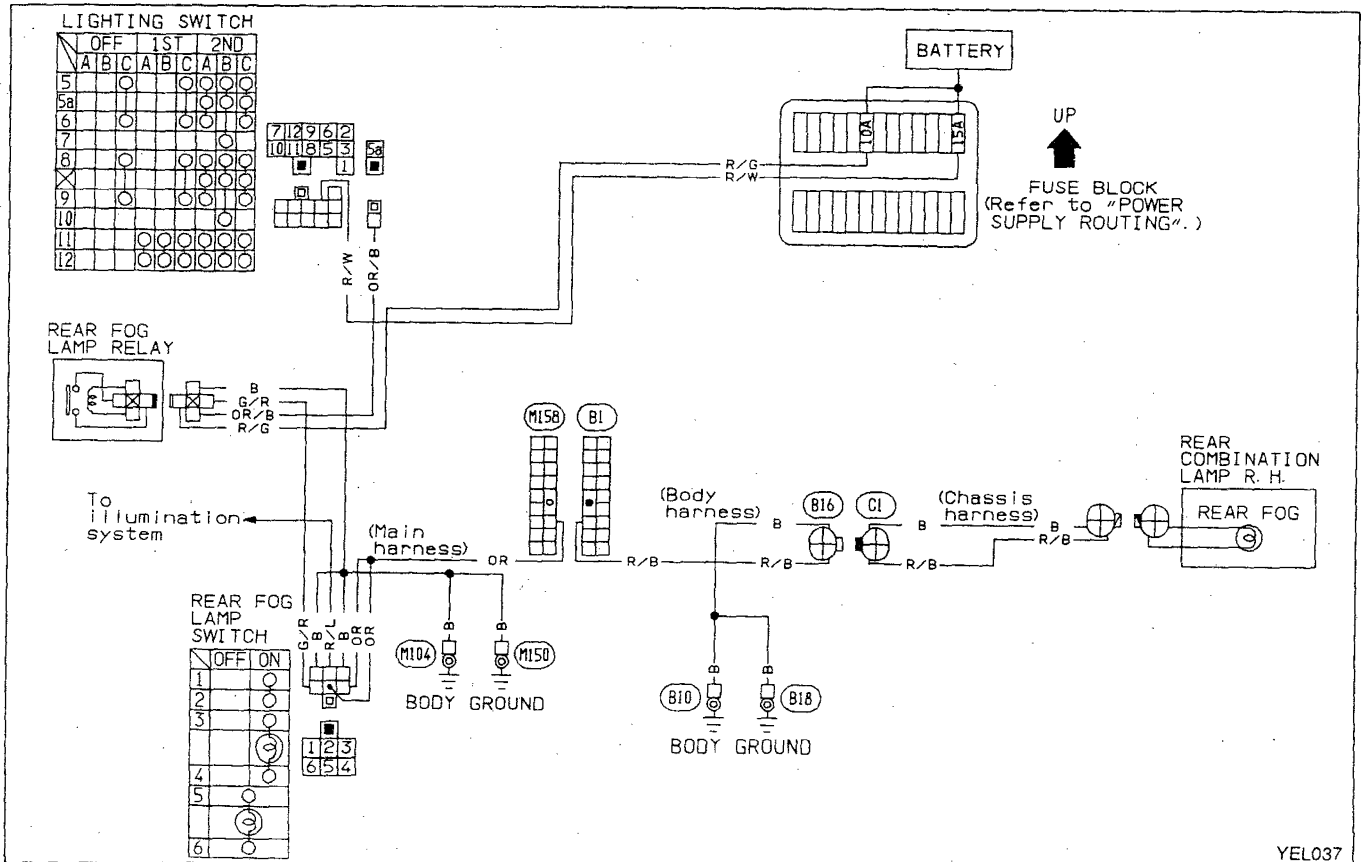


## Rear Fog Lamp/Wiring Diagram

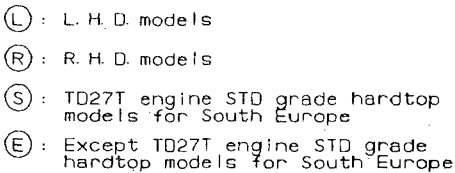
## L.H.D. MODELS



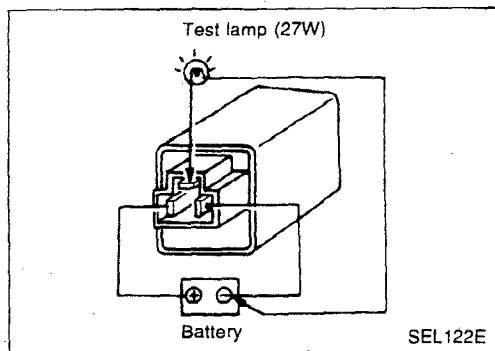
## R.H.D. MODELS



## Turn Signal and Hazard Warning Lamps/Wiring Diagram



## EXTERIOR LAMP



### Combination Flasher Unit Check

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

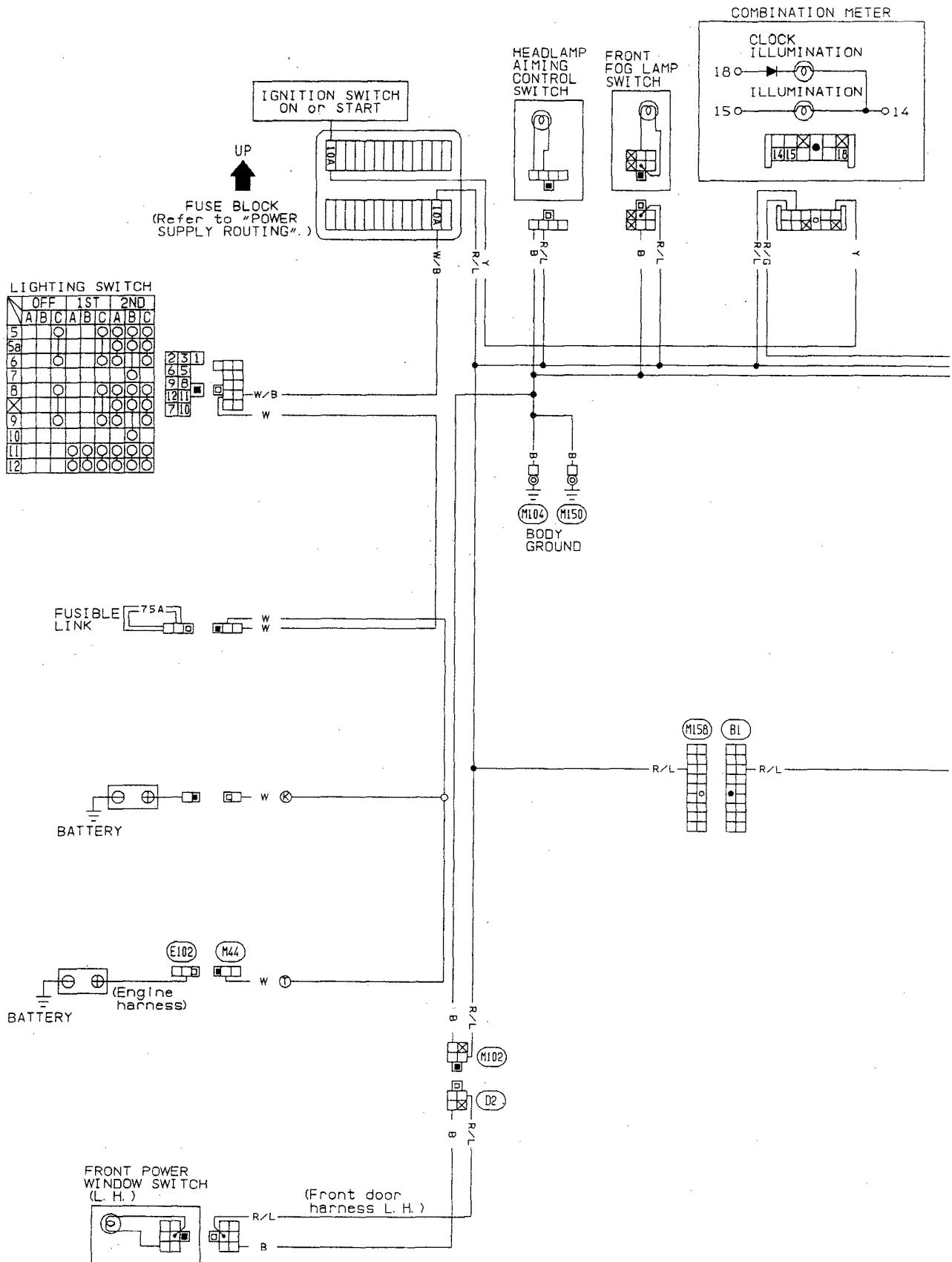
### Bulb Specifications

	Wattage (12 volt)
Headlamp (Semi-sealed beam)	
High/Low	60/55
Front fog lamp	55
Front turn signal lamp	21
Front clearance lamp	5
Side turn signal lamp	5
Rear combination lamp	
Turn signal	21
Stop/tail lamp	21/5
Back-up	21
Rear fog	21
License plate lamp	5
Interior lamp	10
Map lamp (With sunroof models)	5
Luggage room lamp (Hardtop models)	5

# INTERIOR LAMP

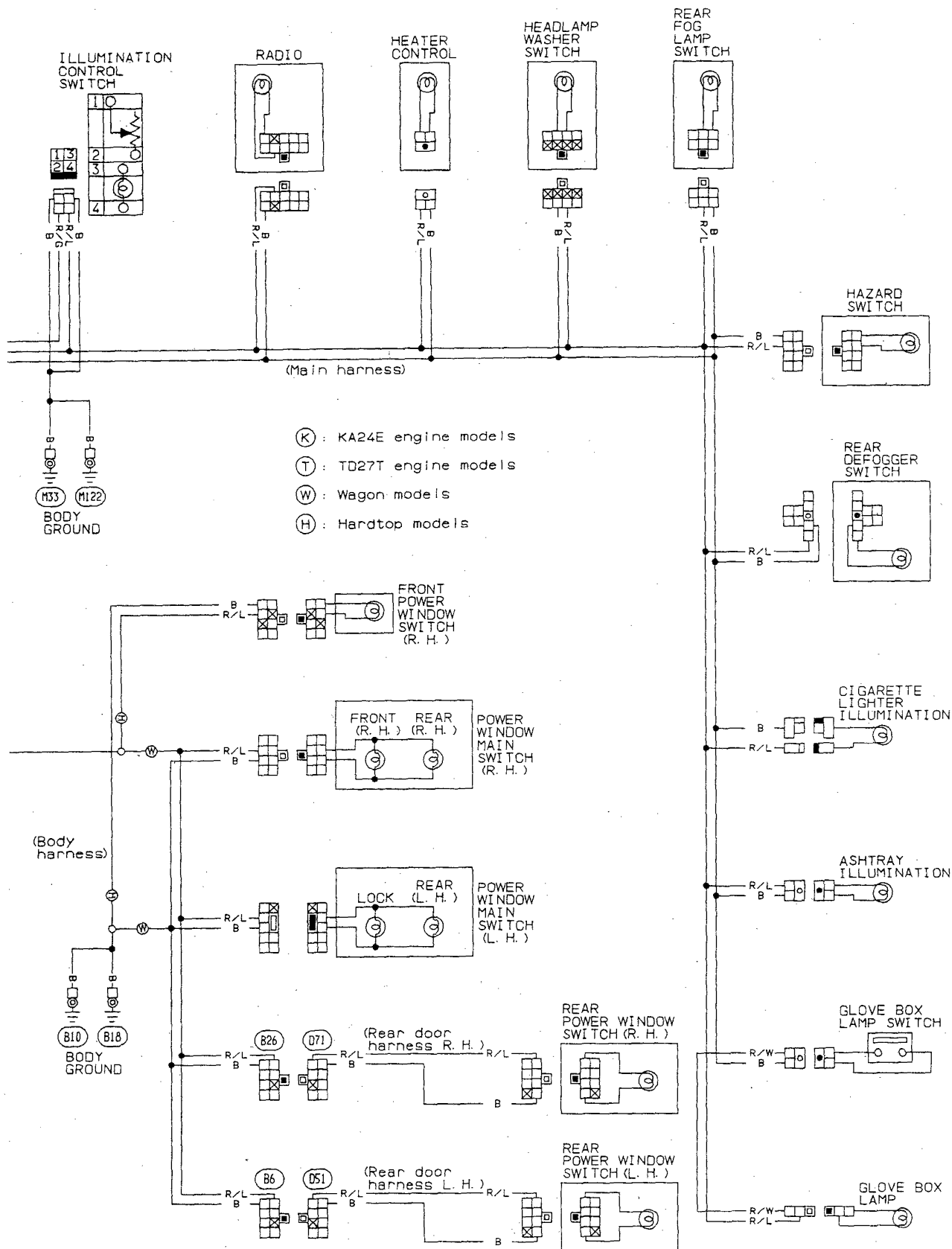
## Illumination/Wiring Diagram

L.H.D. MODELS WITHOUT DAYTIME LIGHT SYSTEM



# INTERIOR LAMP

## Illumination/Wiring Diagram (Cont'd)

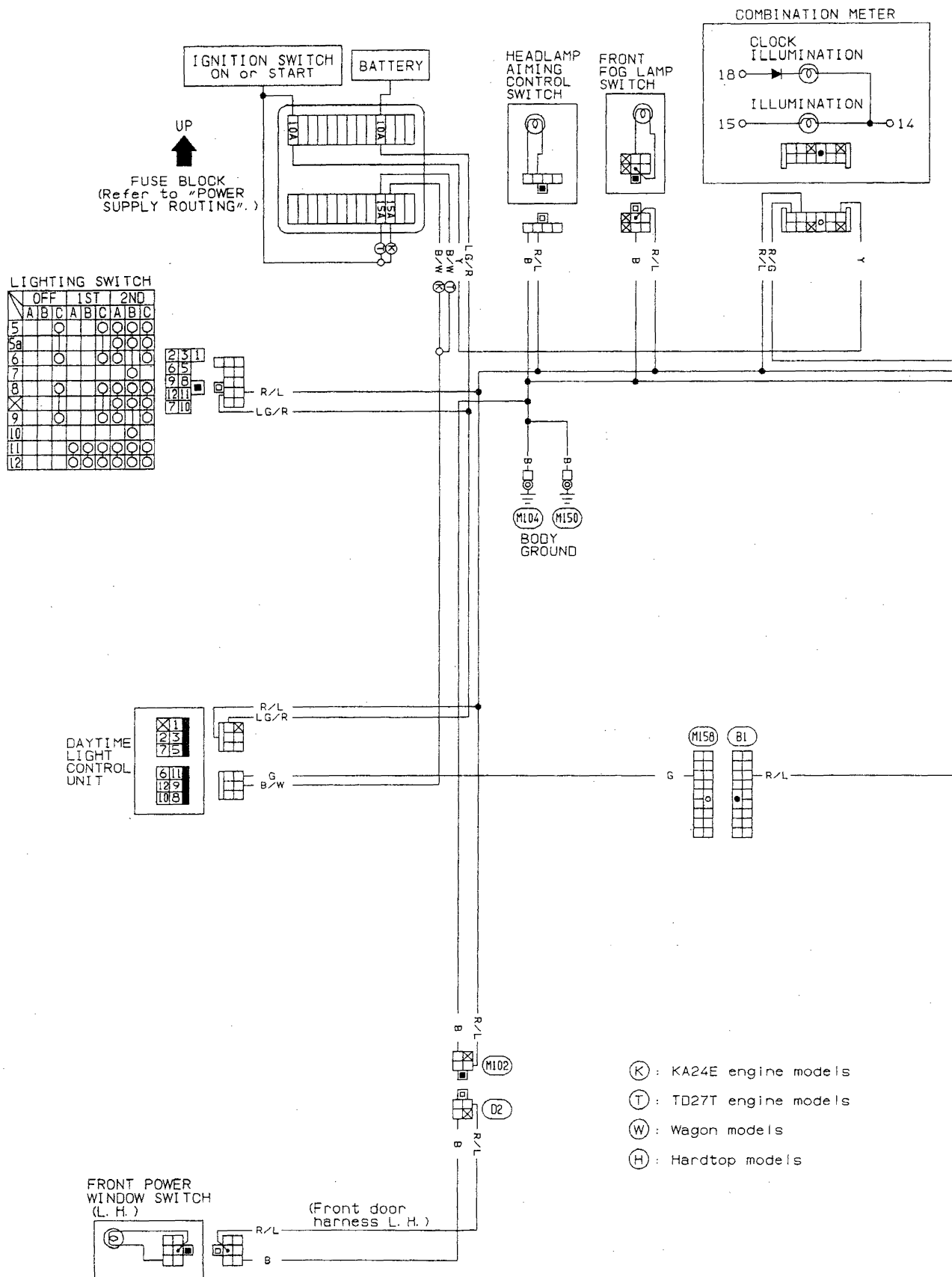


YEL039

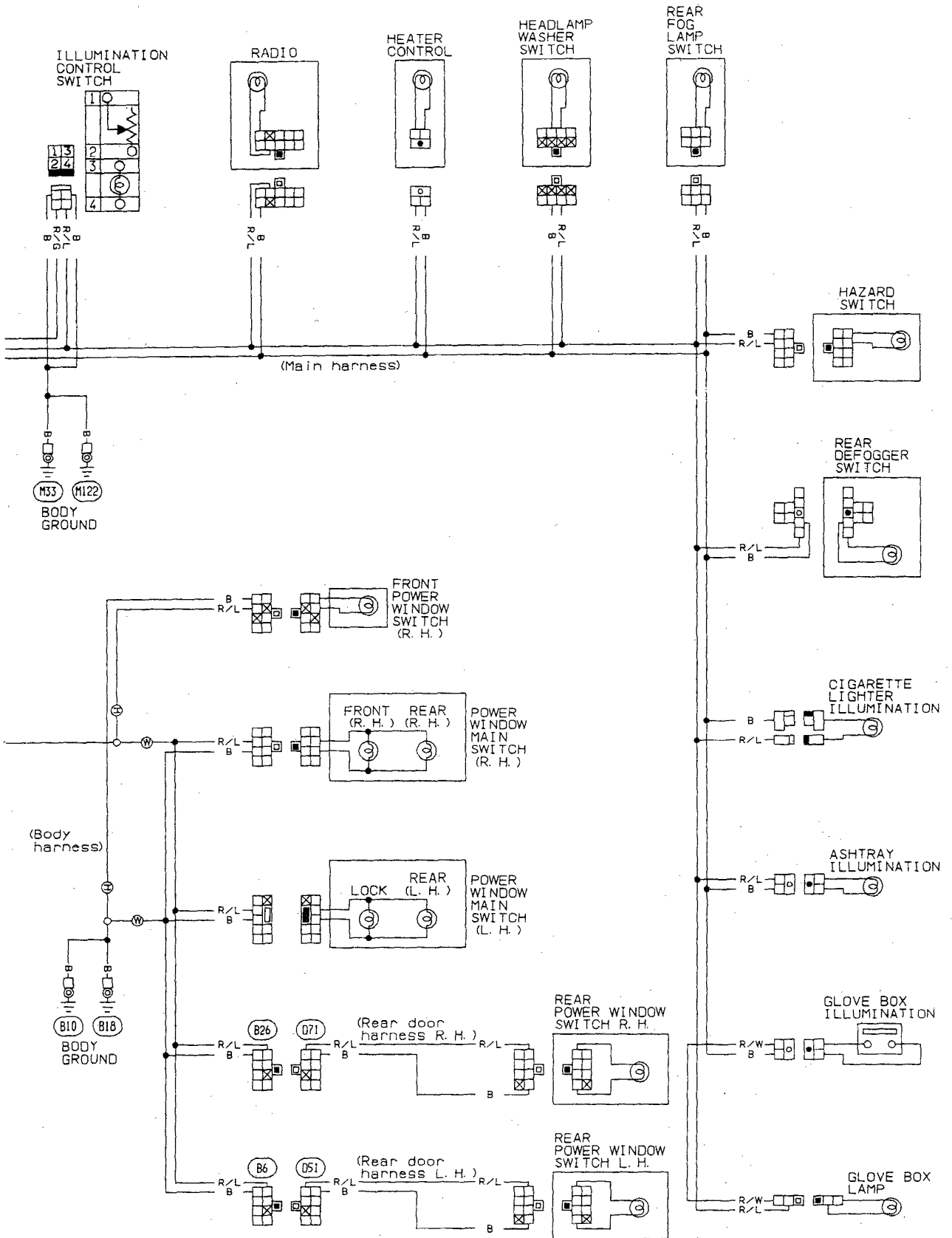
# INTERIOR LAMP

## Illumination/Wiring Diagram (Cont'd)

### L.H.D. MODELS WITH DAYTIME LIGHT SYSTEM



# INTERIOR LAMP Illumination/Wiring Diagram (Cont'd)



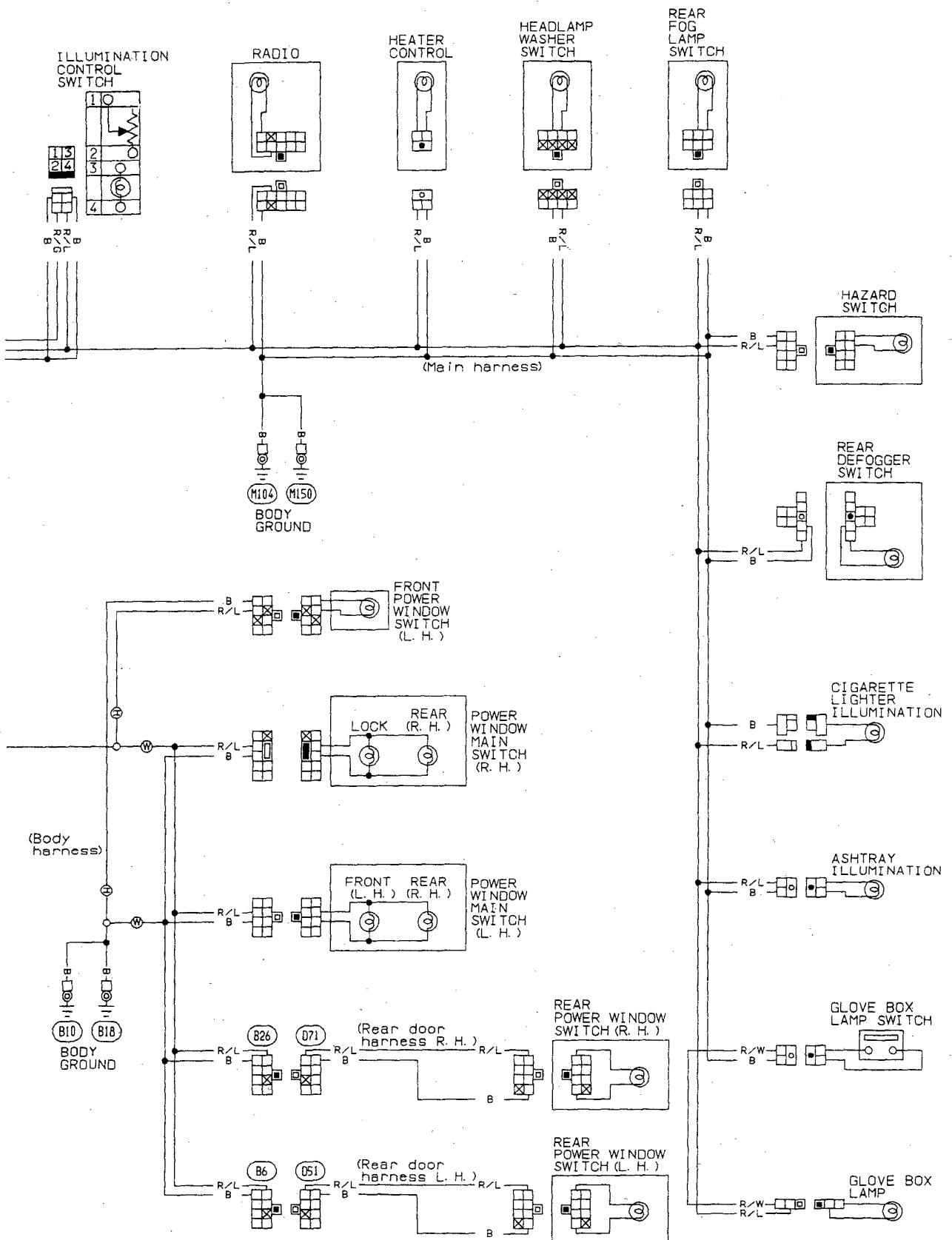
## R.H.D. MODELS





# INTERIOR LAMP

## Illumination/Wiring Diagram (Cont'd)

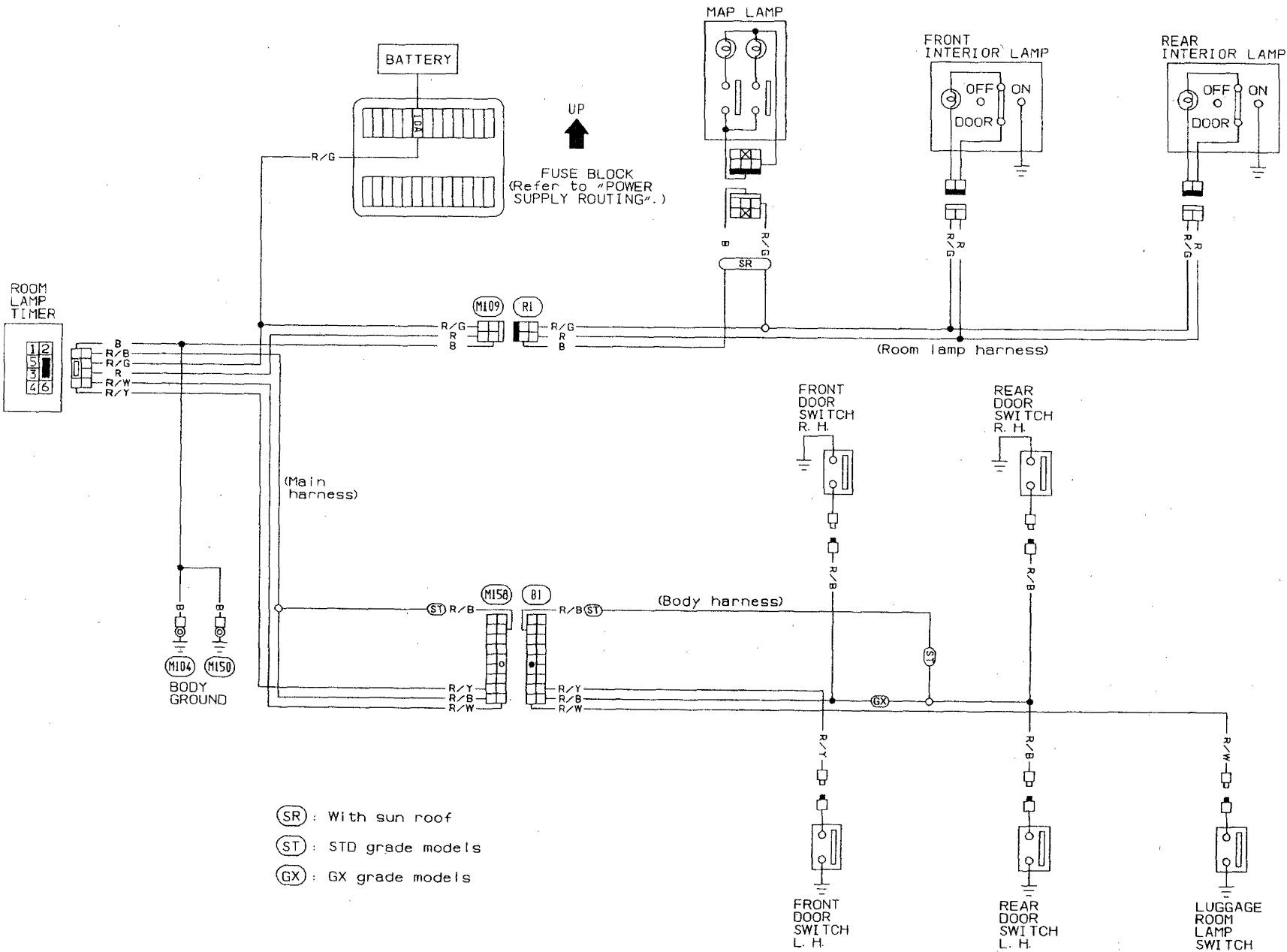


YEL041

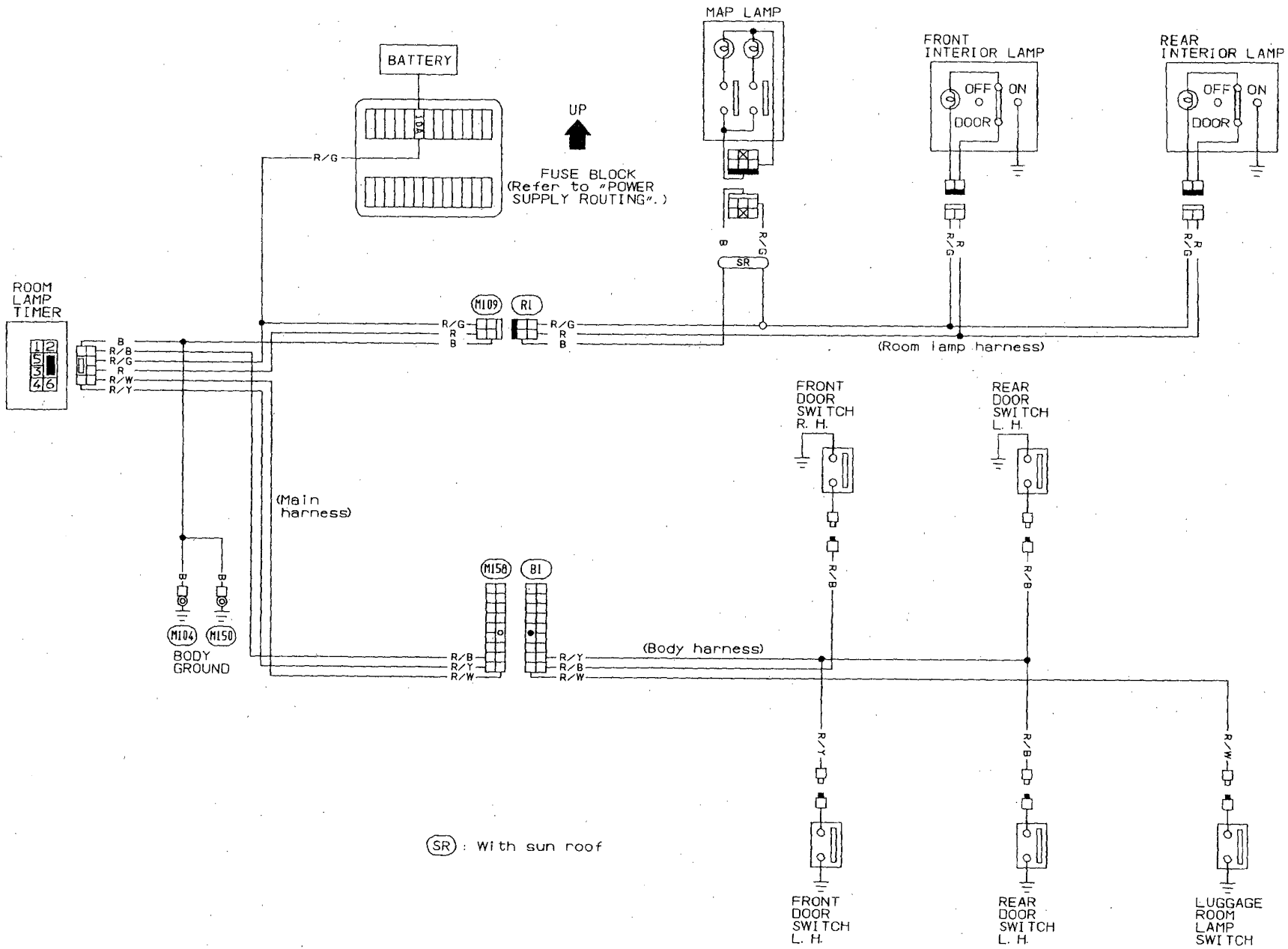
# INTERIOR LAMP

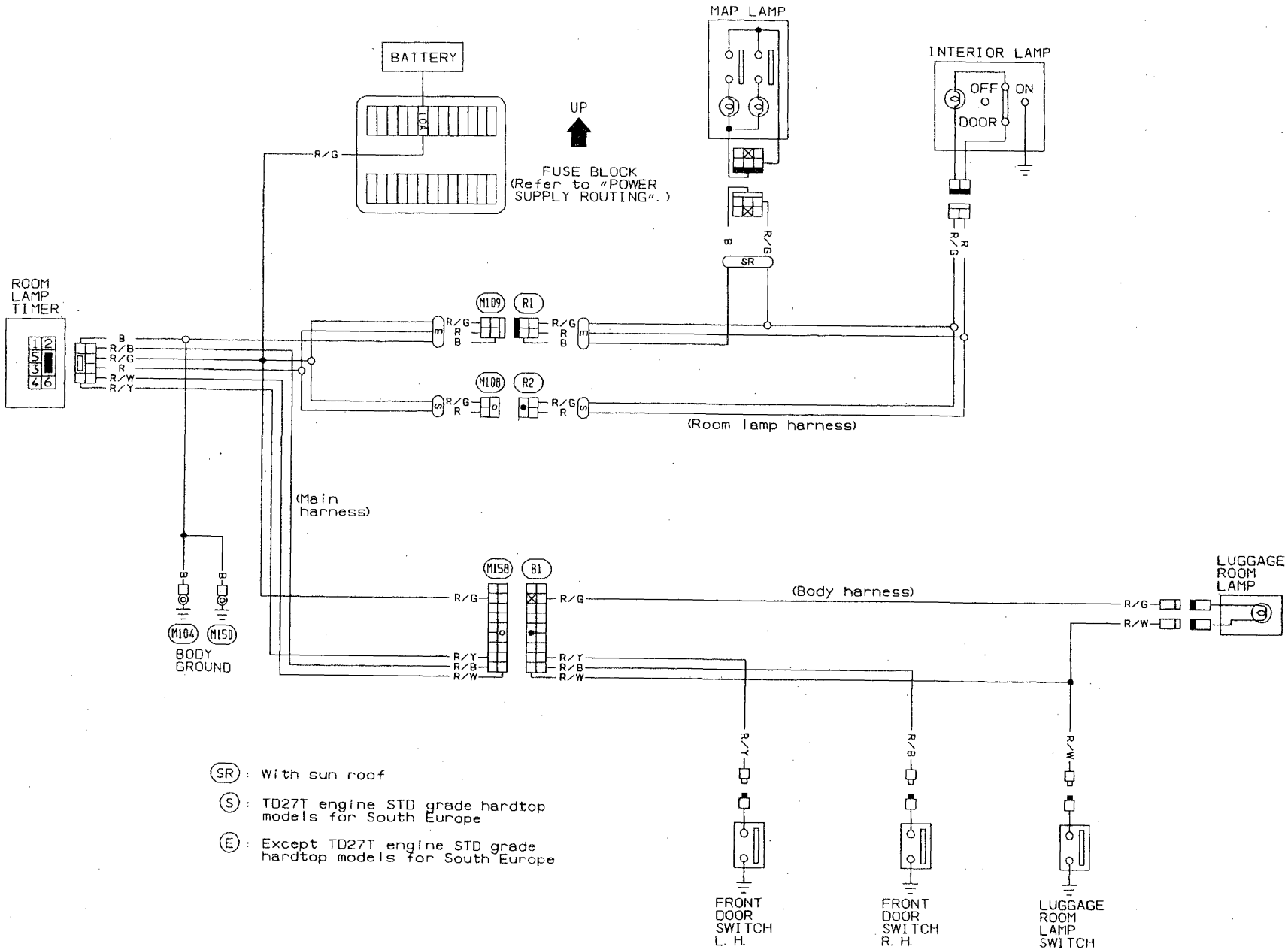
L.H.D. WAGON MODELS

## Interior, Spot and Luggage Room Lamps/Wiring Diagram

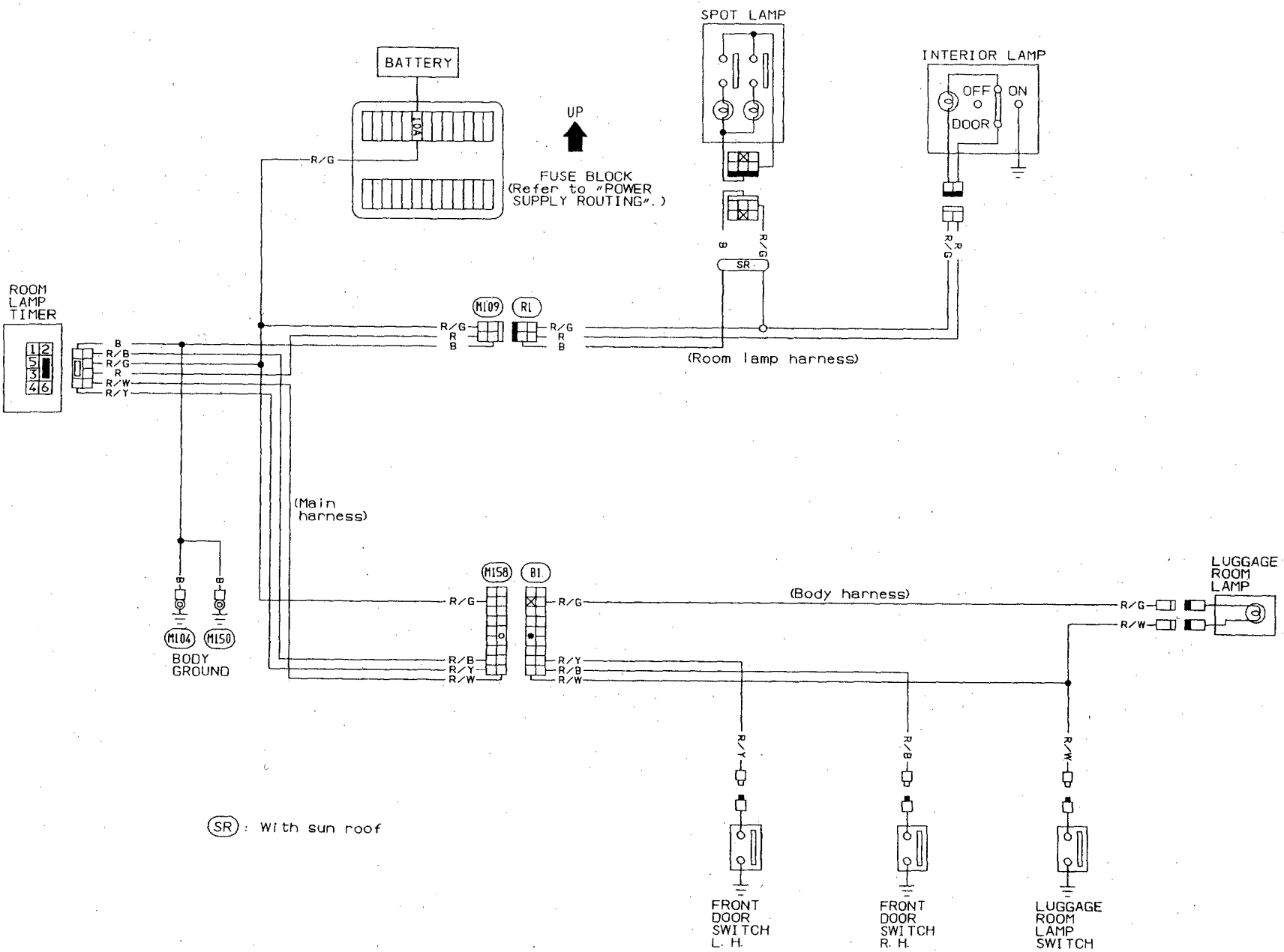


# INTERIOR LAMP Interior, Spot and Luggage Room Lamps/ Wiring Diagram (Cont'd)





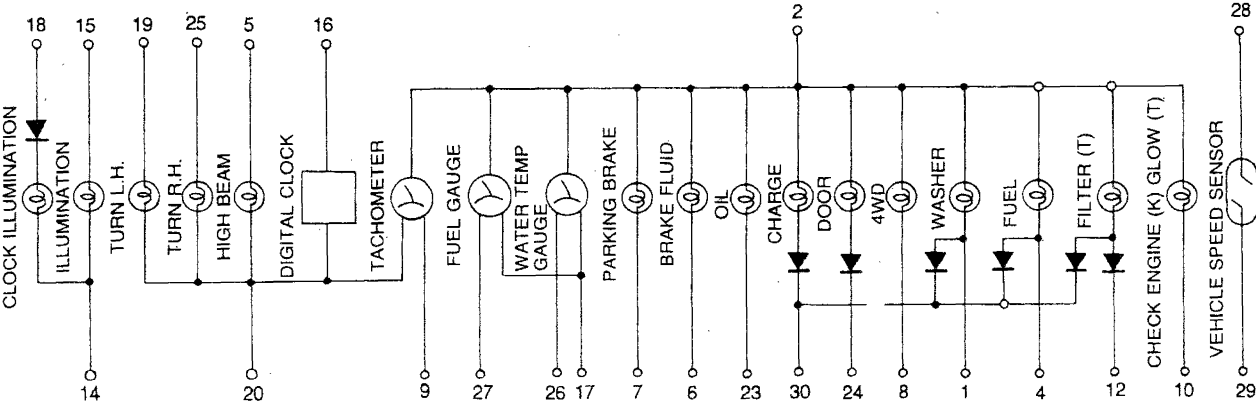
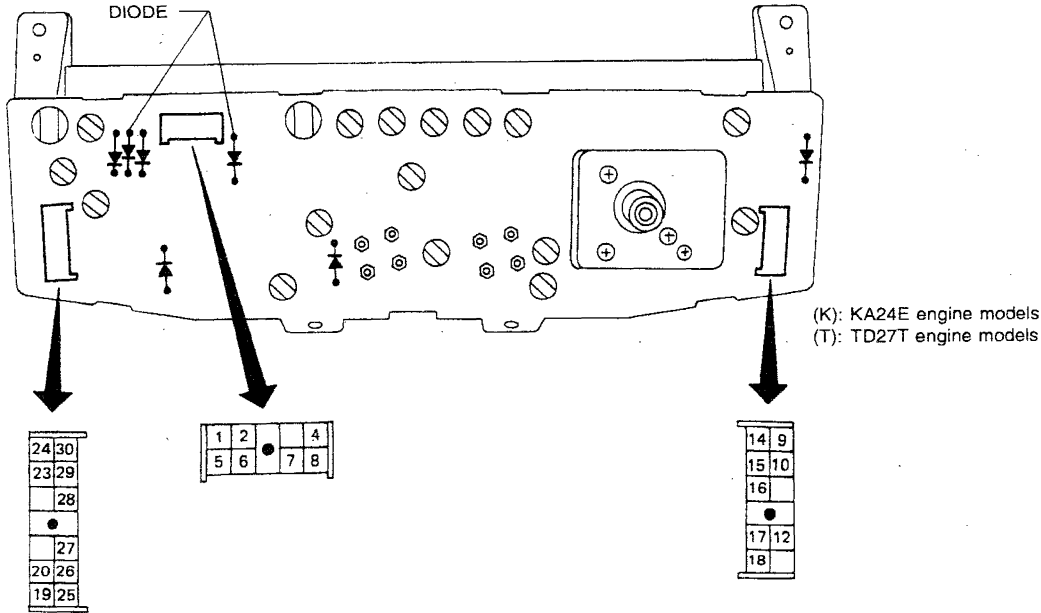
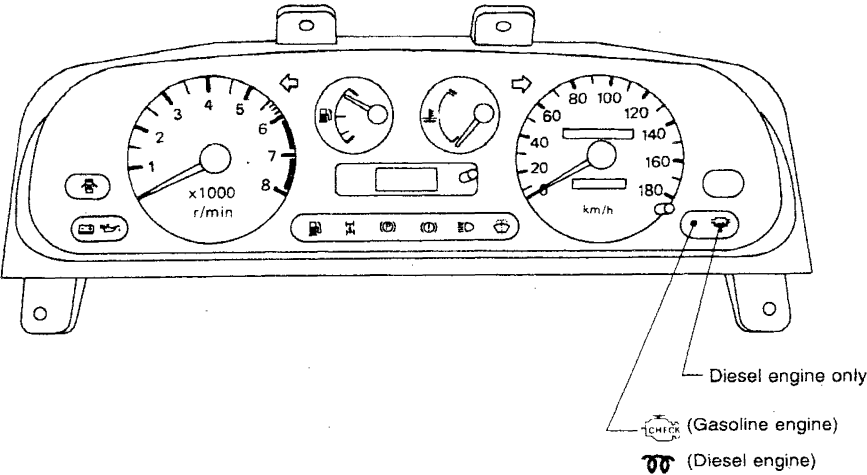
# INTERIOR LAMP Interior, Spot and Luggage Room Lamps/ Wiring Diagram (Cont'd)



(SR) : With sun roof

Combination Meter

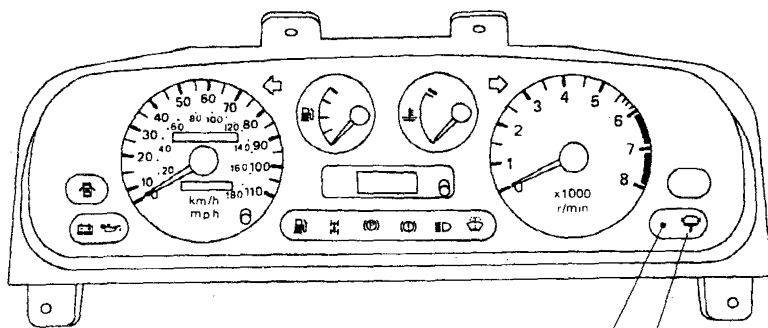
L.H.D. MODELS



# METER AND GAUGES

## Combination Meter (Cont'd)

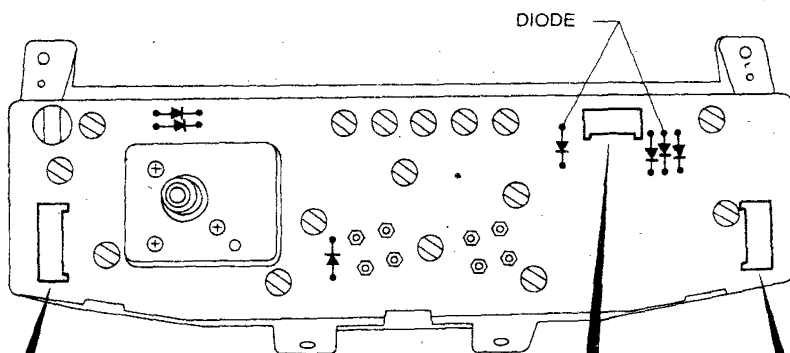
### R.H.D. MODELS



Diesel engine only

(Gasoline engine)

(Diesel engine)



DIODE

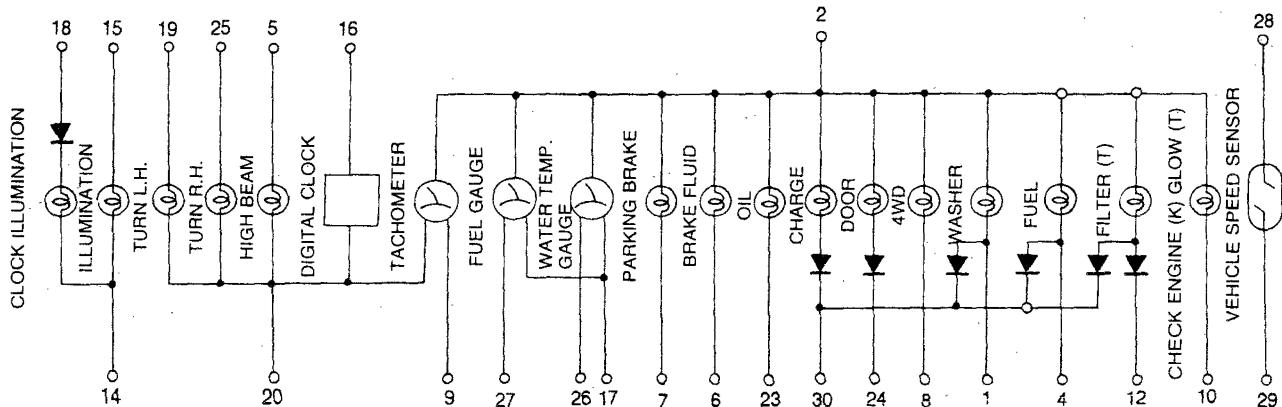
(K): KA24E engine models

(T): TD27T engine models

24	30
23	29
	28
	27
20	26
19	25

1	2		4
5	6	7	8

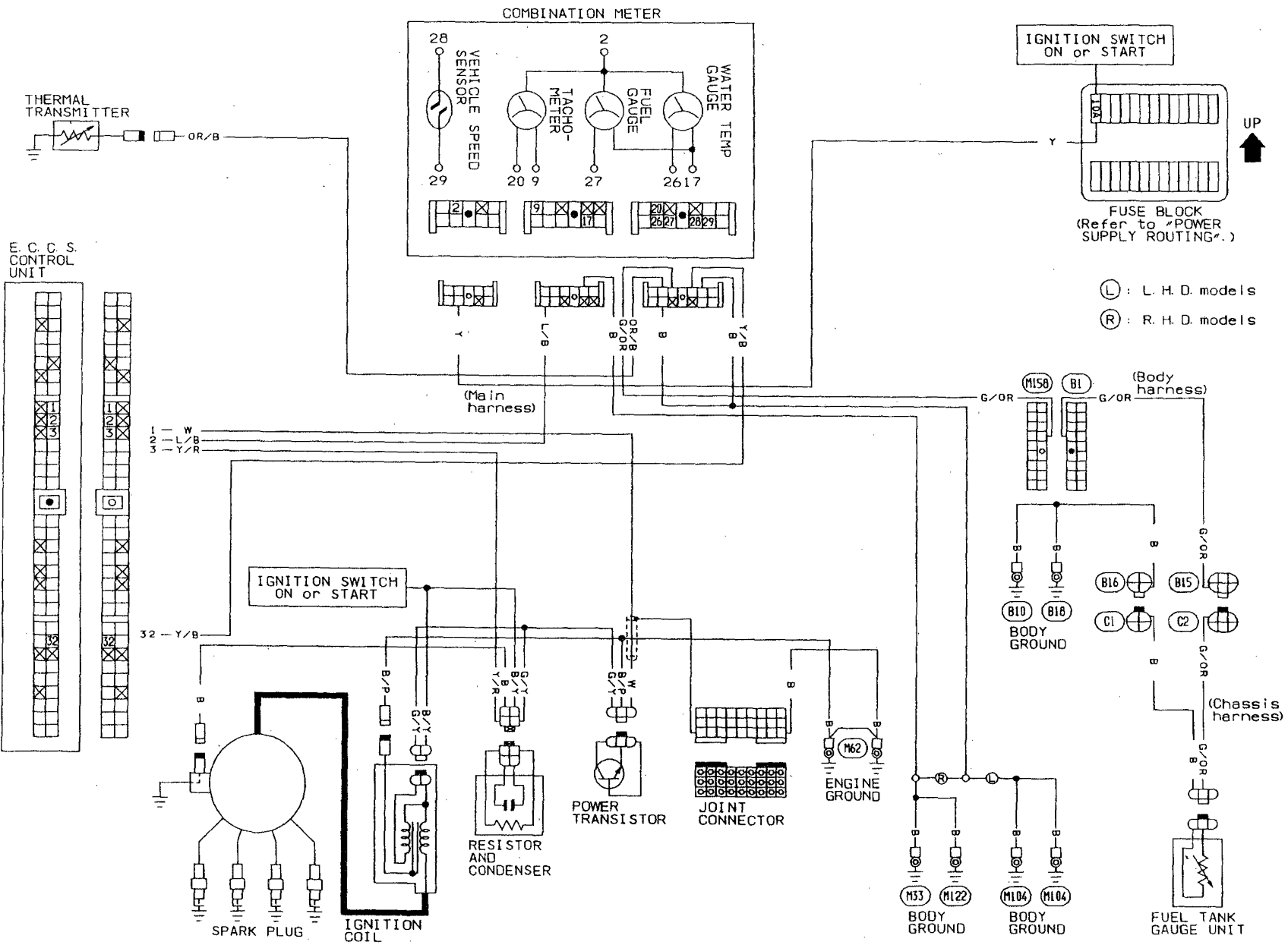
14	9
15	10
16	
17	12
18	



# METER AND GAUGES

## KA24E ENGINE MODELS

### Tachometer, Temp. and Fuel Gauges/Wiring Diagram



UP

(L): L. H. D. models  
(R): R. H. D. models

(Body harness)  
(Chassis harness)

M158 B1  
B16 B15  
B10 B18 C1 C2  
M53 M122 M104 M104  
BODY GROUND BODY GROUND

M62  
ENGINE GROUND

JOINT CONNECTOR

POWER TRANSISTOR

RESISTOR AND CONDENSER

IGNITION SWITCH ON or START

IGNITION COIL  
SPARK PLUG

W  
Y/B  
Y/B  
Y/B

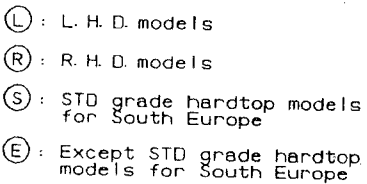
32 - Y/B

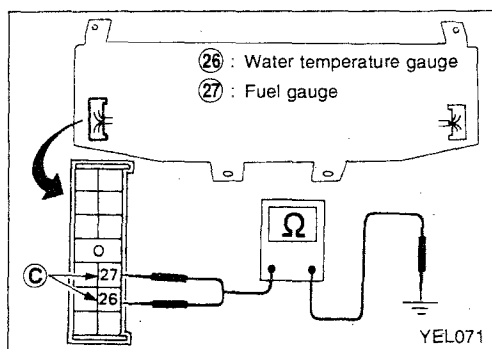
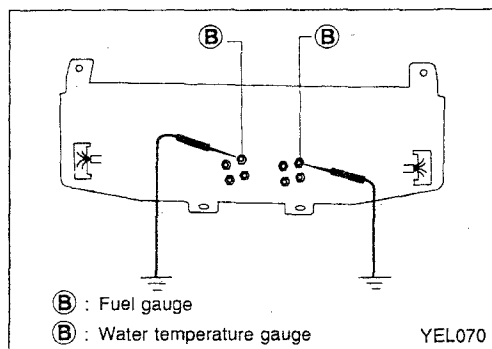
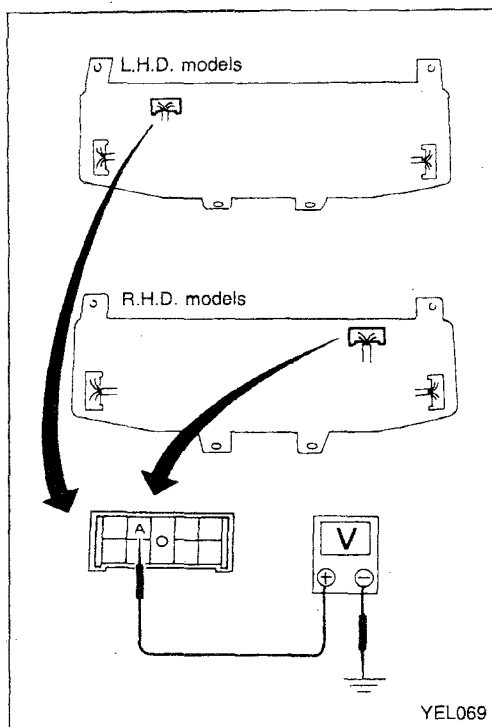
THERMAL TRANSMITTER

E. C. C. S. CONTROL UNIT

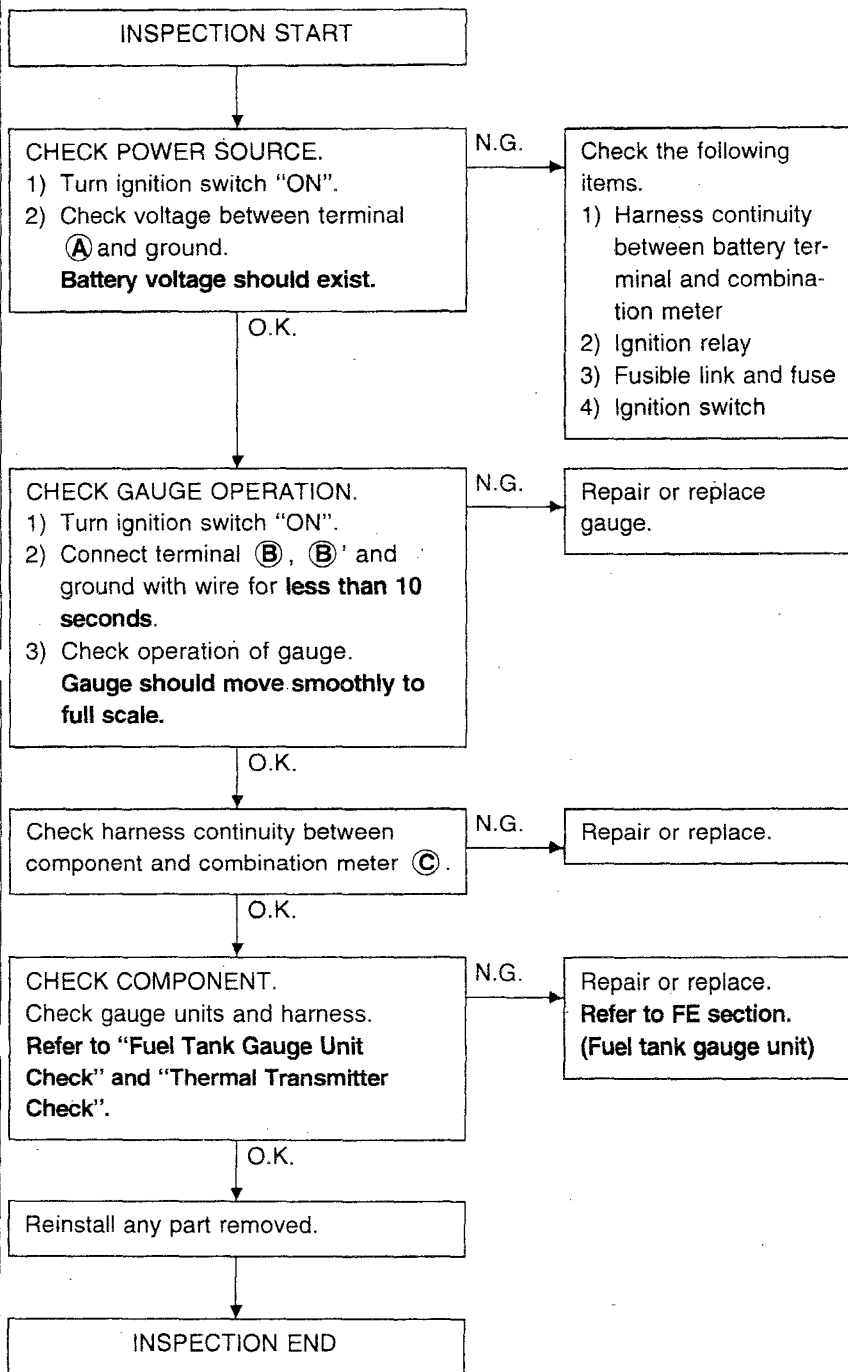


## **Tachometer, Temp. and Fuel Gauges/Wiring Diagram (Cont'd)**





## Inspection/Fuel Gauge and Water Temperature Gauge

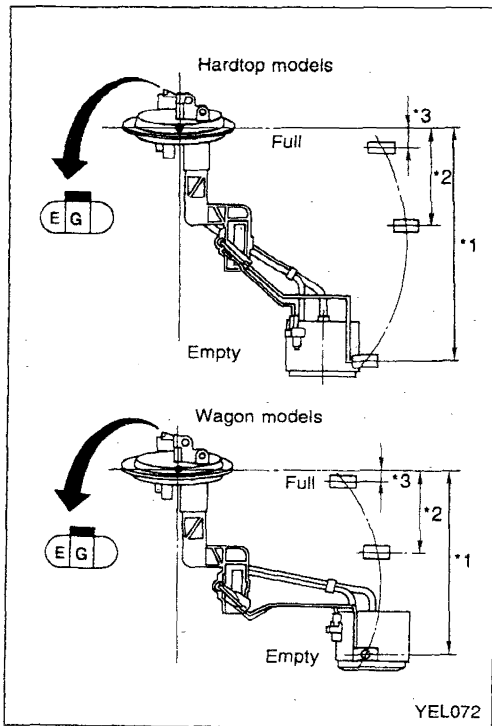


## Fuel Tank Gauge Unit Check

- For removal, refer to FE section.
- Check the resistance between terminals (G) and (E).

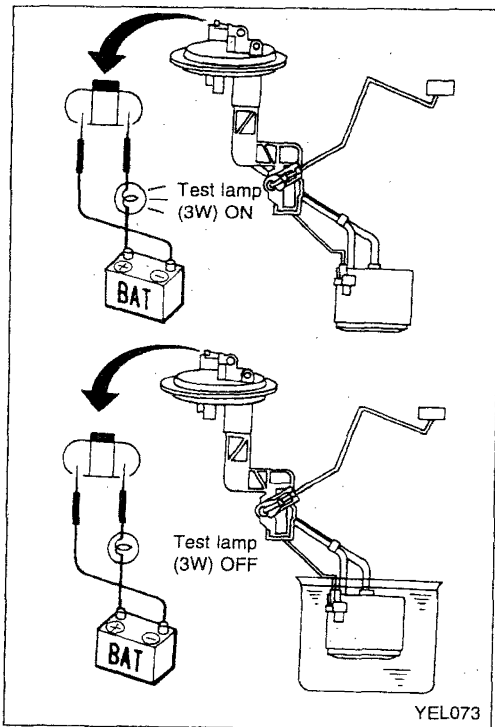
Ohmmeter		Float position mm (in)			Resistance value (Ω)
(+)	(-)		Hardtop models	Wagon models	
G	E	*3 Full	28 (1.10)	18 (0.71)	Approx. 0 - 7
		*2 1/2	168 (6.61)	126 (4.96)	92 - 112
		*1 Empty	274 (10.79)	210 (8.27)	240 - 320

Values \*1 and \*3: with the dipstick float at its lower or upper limit.



## Fuel Warning Lamp Sensor Check

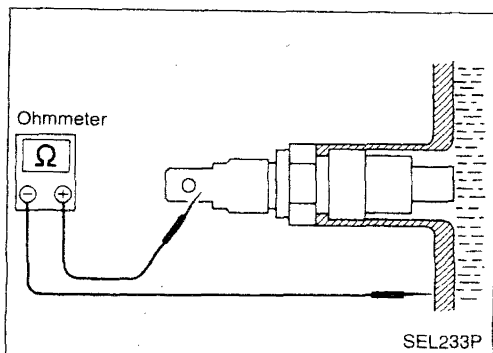
- It will take a short time for the bulb to light.

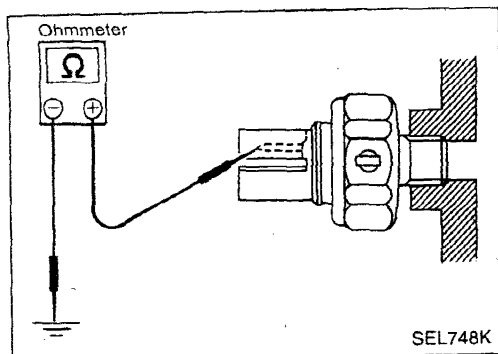


## Thermal Transmitter Check

Check the resistance between the terminals of thermal transmitter and body ground.

Water temperature	Resistance
65°C (149°F)	Approx. 482 - 496Ω
91°C (196°F)	Approx. 179 - 191Ω

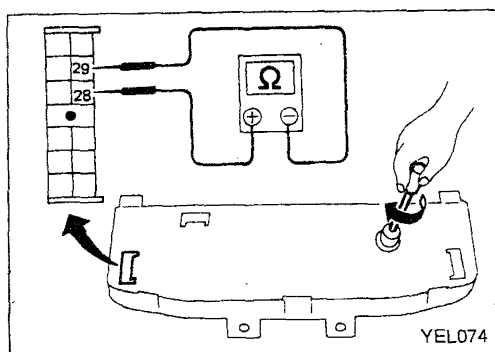




## Oil Pressure Switch Check

Check the continuity between the terminals of oil pressure switch and body ground.

	Oil pressure kPa (bar, kg/cm <sup>2</sup> , psi)	Continuity
Engine start	More than 10 - 20 (0.10 - 0.20, 0.1 - 0.2, 1.4 - 2.8)	NO
Engine stop	Less than 10 - 20 (0.10 - 0.20, 0.1 - 0.2, 1.4 - 2.8)	YES

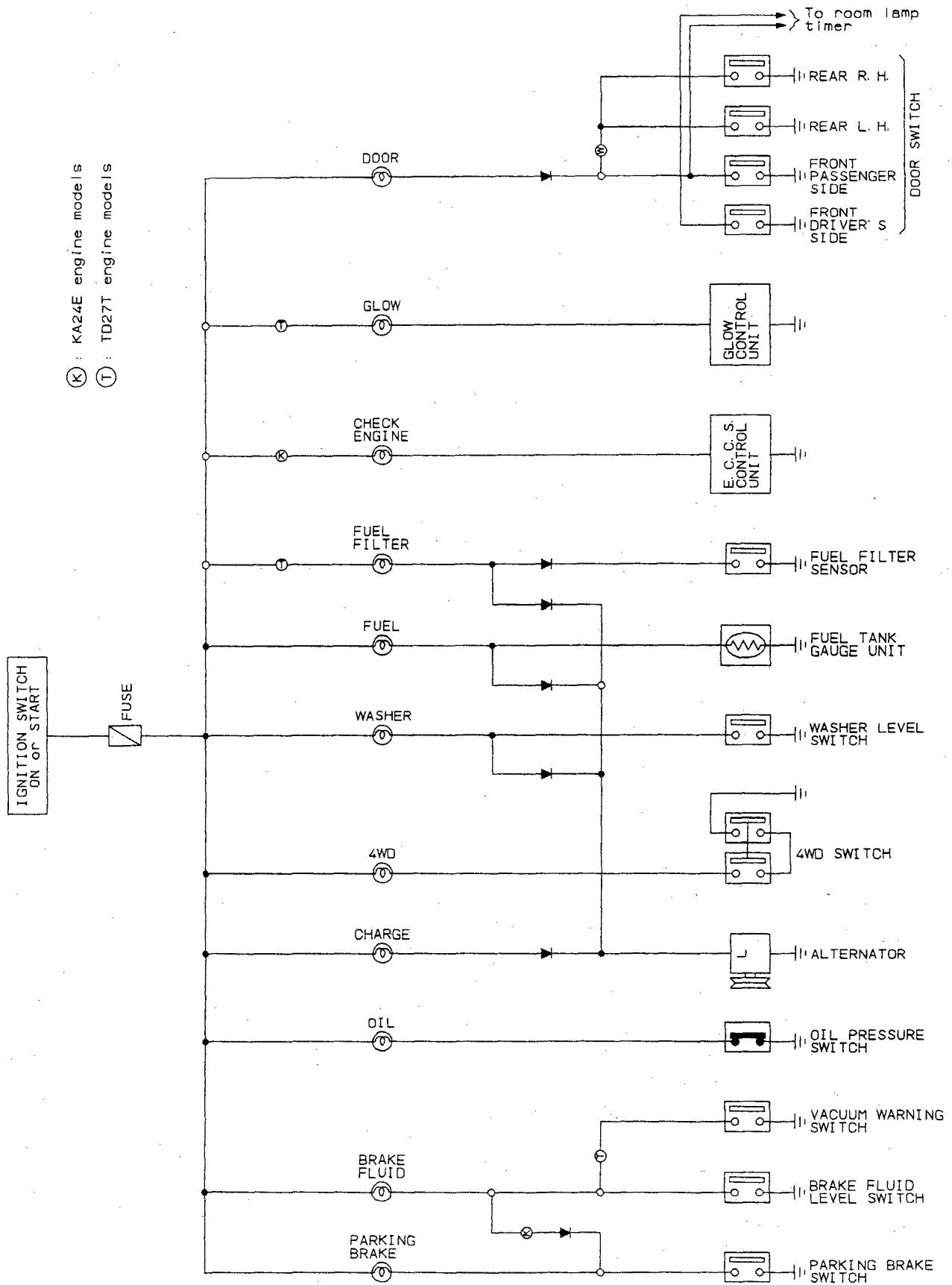


## Speed Sensor Signal Check

- A speed sensor is built into the speedometer.
- Turn speedometer slowly using a small screwdriver.
  - Check continuity of speed sensor circuit.

**Continuity exists two times for each turn ... O.K.**

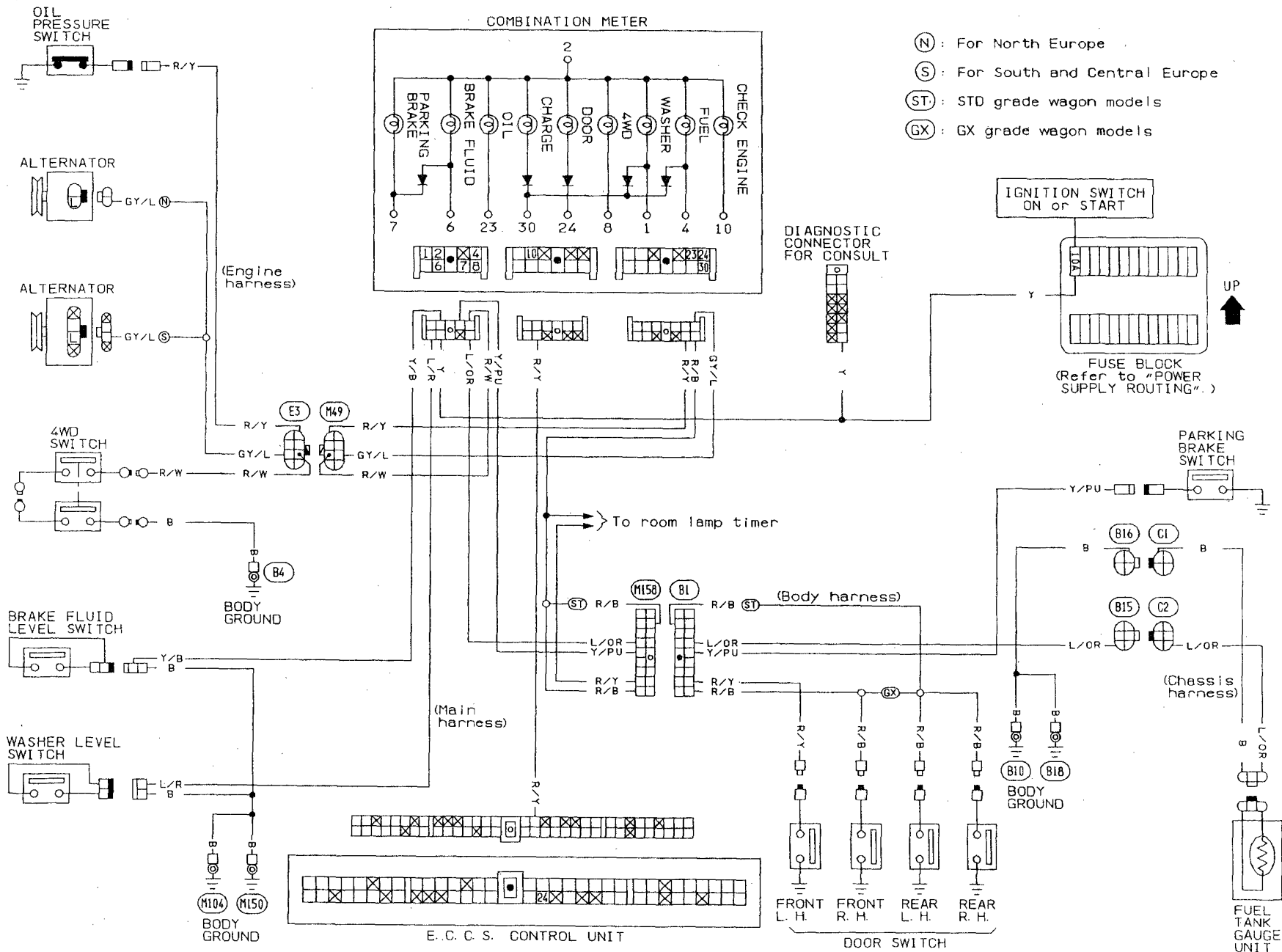
## Warning Lamps/Schematic



## Warning Lamps/Wiring Diagram

L.H.D. KA24E ENGINE MODELS

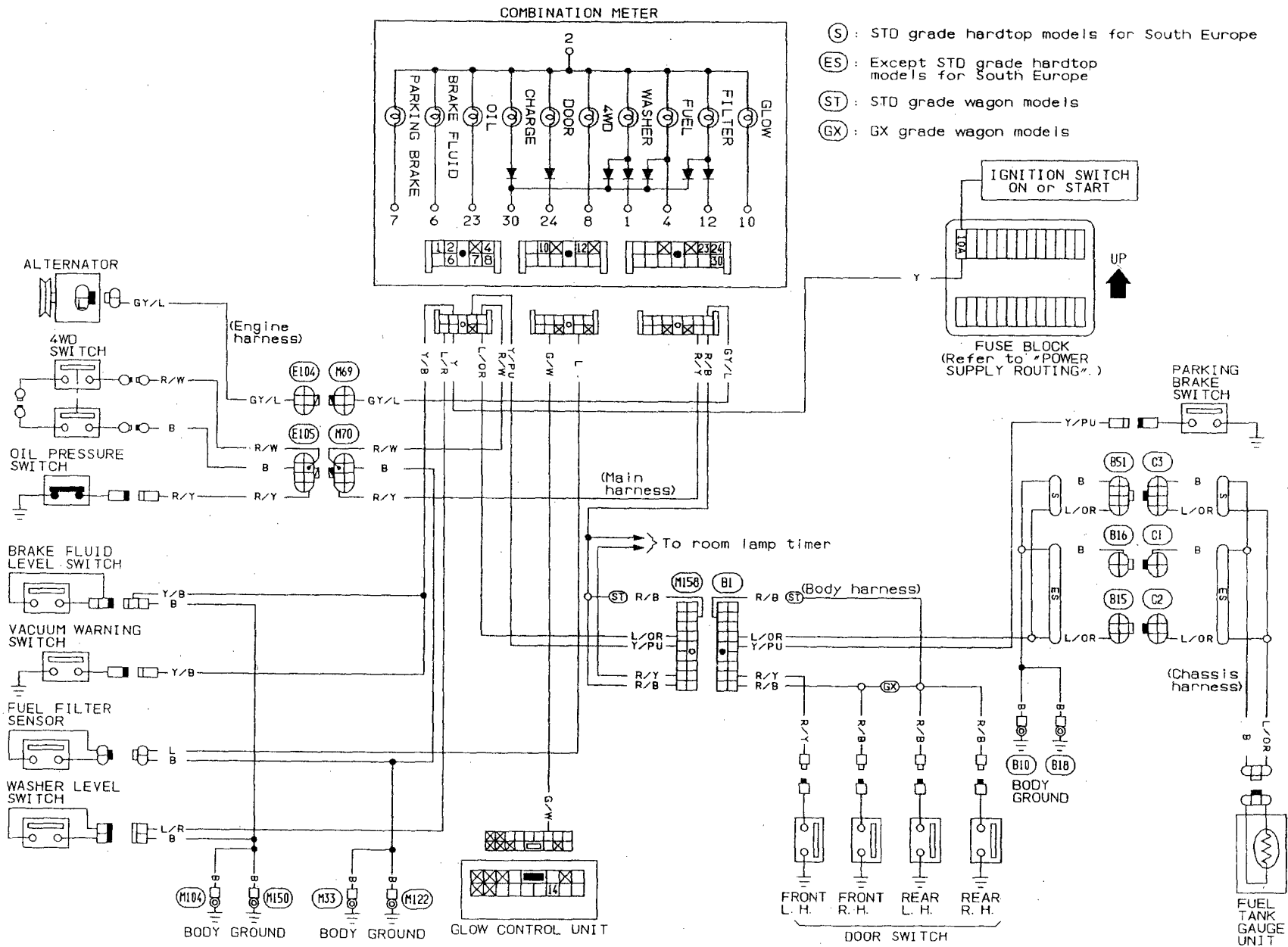
- (N) : For North Europe
- (S) : For South and Central Europe
- (ST) : STD grade wagon models
- (GX) : GX grade wagon models



# WARNING LAMPS AND CHIME

## Warning Lamps/Wiring Diagram (Cont'd)

L.H.D. TD27T ENGINE MODELS

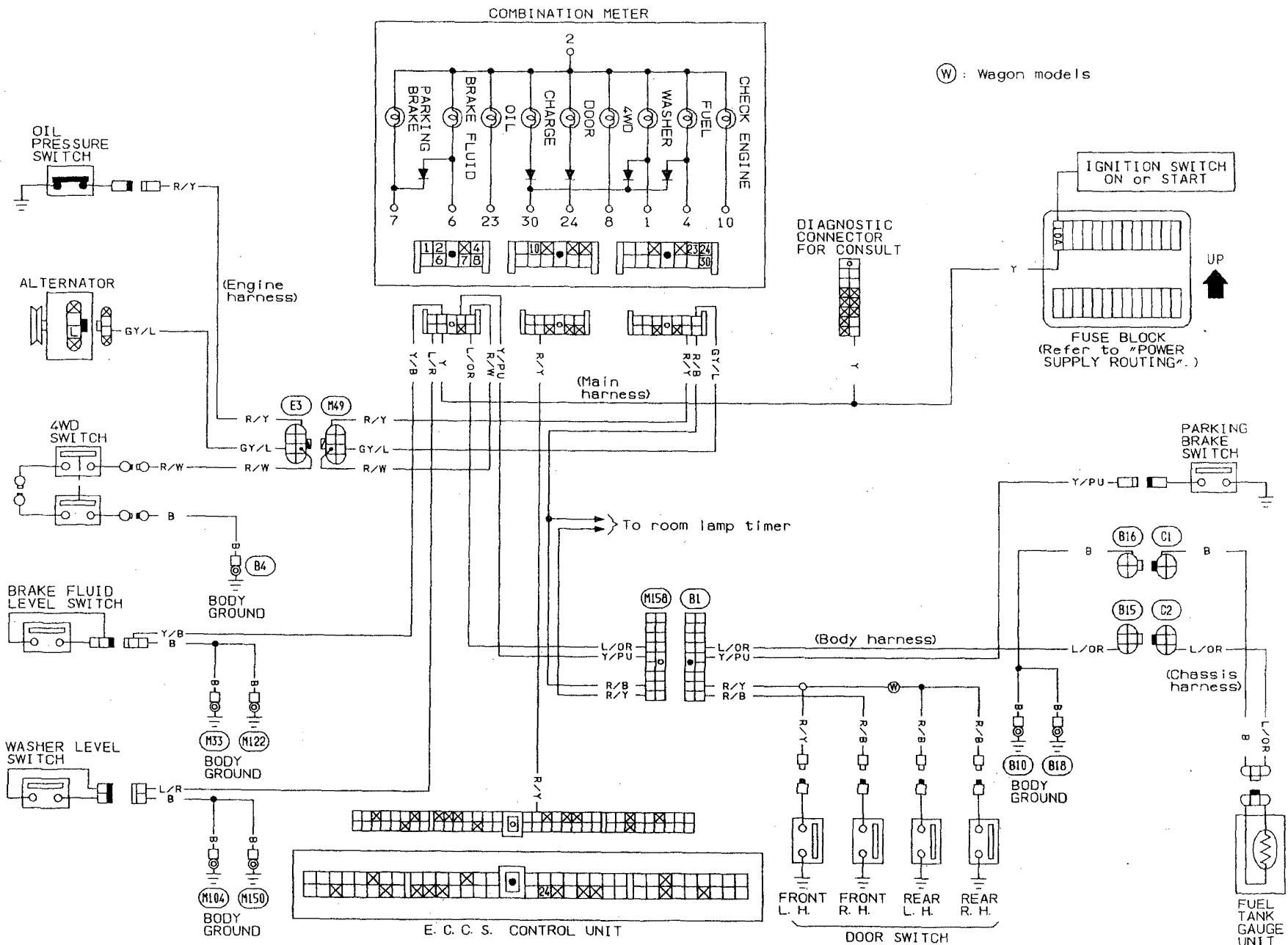


# WARNING LAMPS AND CHIME

## Warning Lamps/Wiring Diagram (Cont'd)

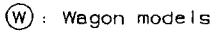
R.H.D. KA24E ENGINE MODELS

(W) : Wagon models



EL-80



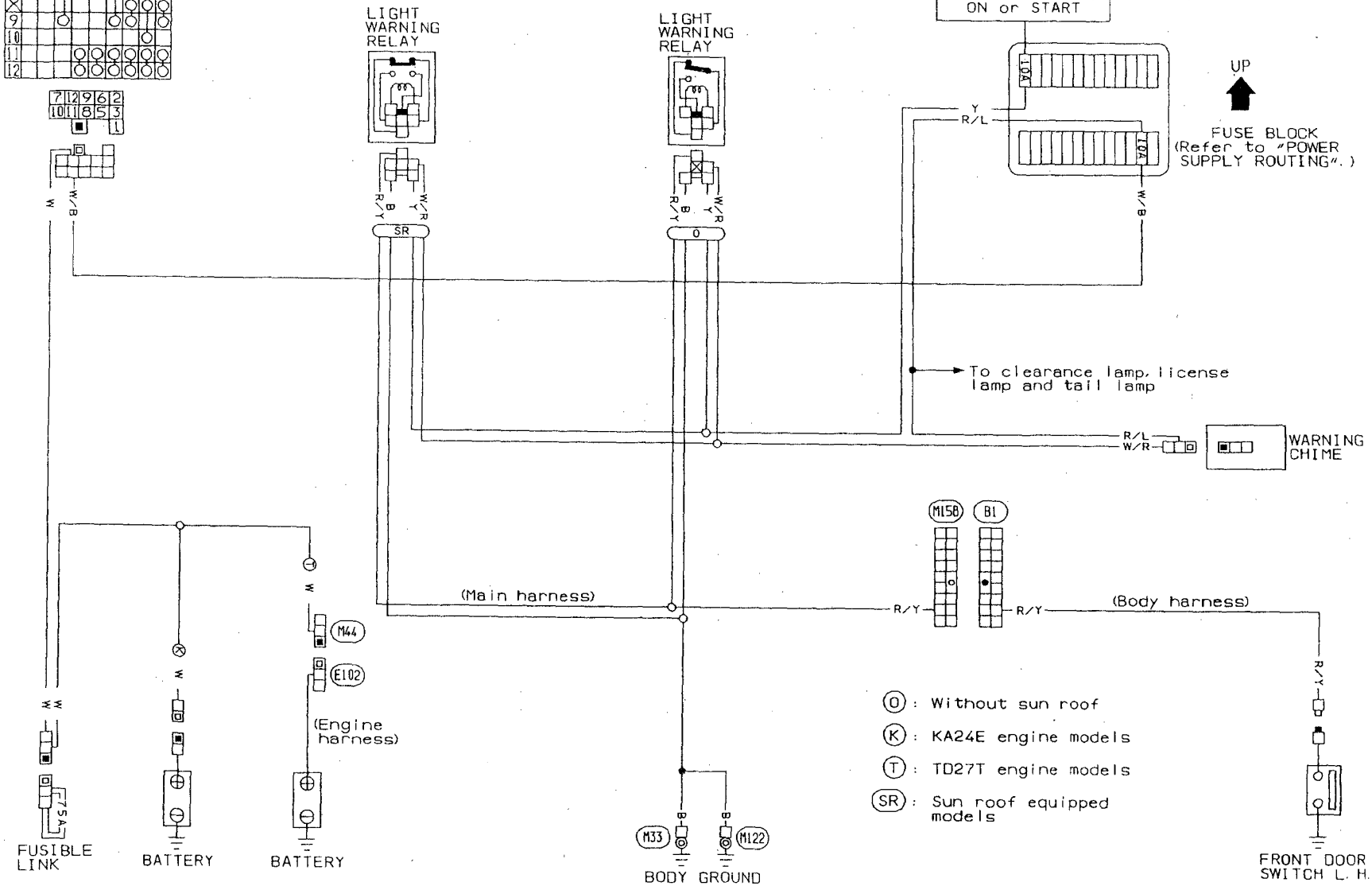


# WARNING LAMPS AND CHIME

## Warning Chime/Wiring Diagram L.H.D. MODELS WITHOUT DAYTIME LIGHT SYSTEM

LIGHTING SWITCH

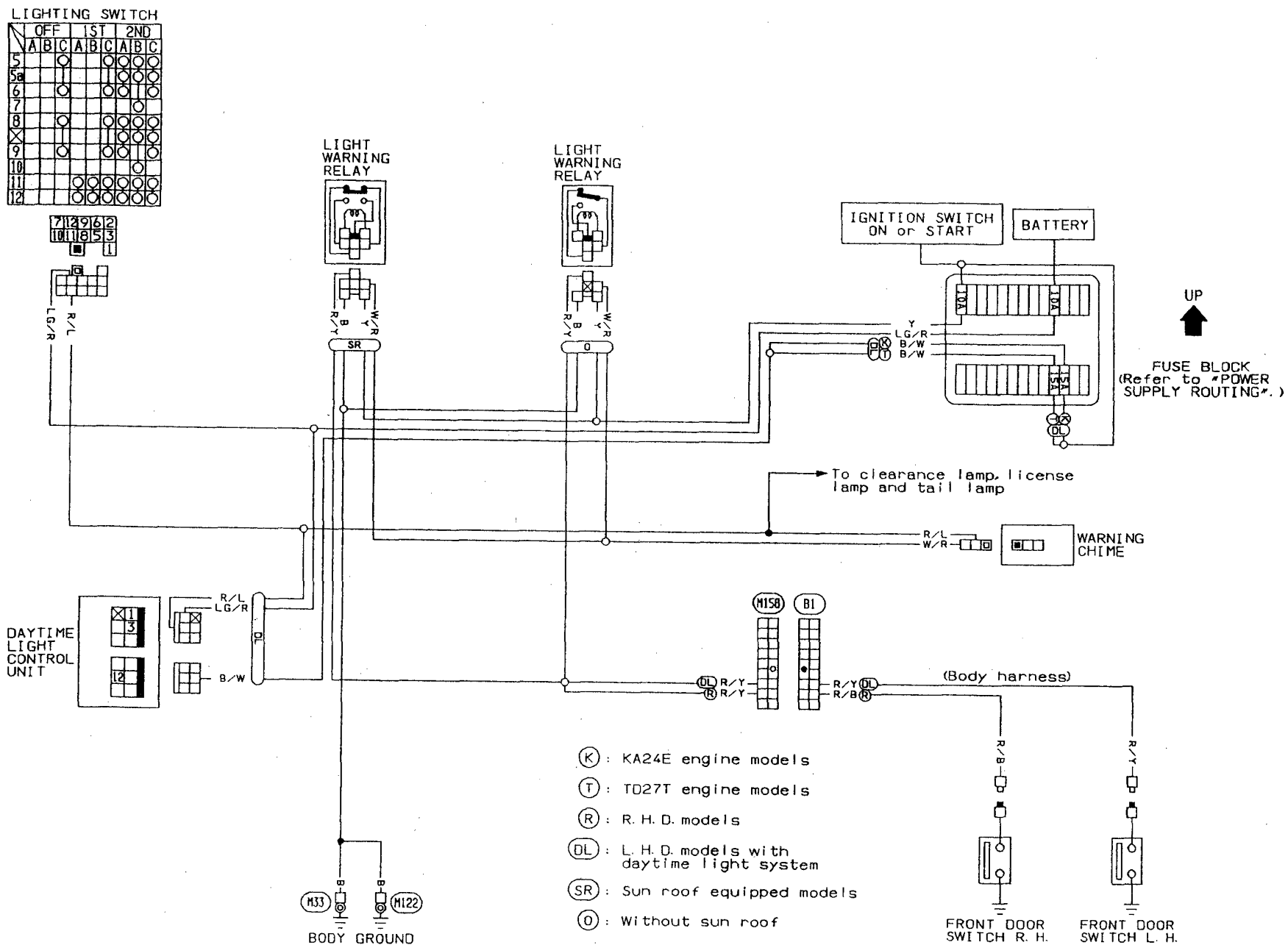
	OFF			1ST			2ND		
	A	B	C	A	B	C	A	B	C
5									
5a									
6									
7									
8									
9									
10									
11									
12									



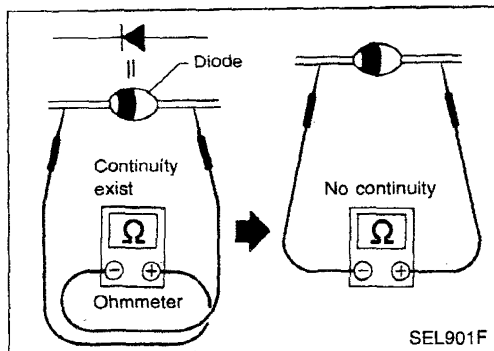
# WARNING LAMPS AND CHIME

## Warning Chime/Wiring Diagram (Cont'd)

R.H.D MODELS AND L.H.D. MODELS WITH DAYTIME LIGHT SYSTEM

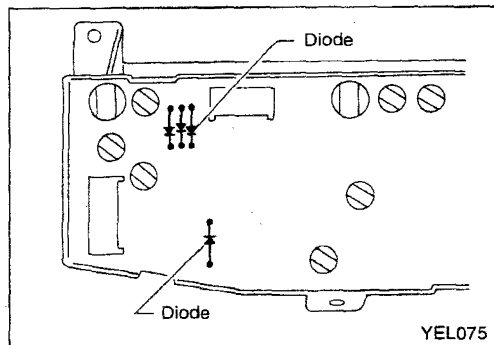


EL-83



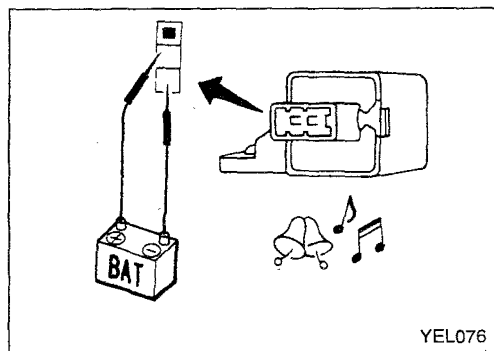
## Diode Check

- Check continuity using an ohmmeter.
- Diode is functioning properly if test results are as shown in the figure at left.



- Diodes for warning lamps are built into the combination meter printed circuit.

Refer to "Combination Meter".

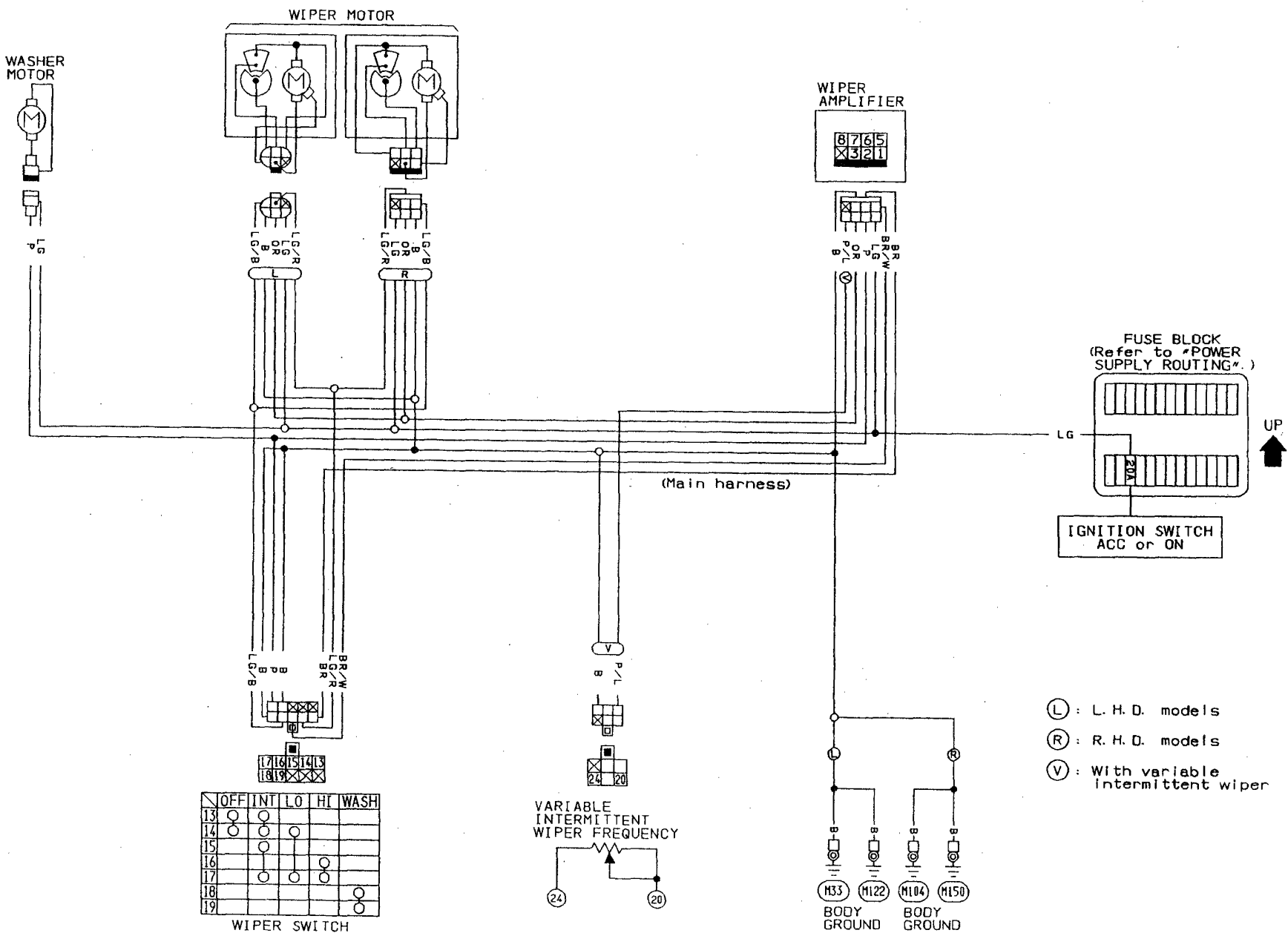


## Warning Chime Check

- Chime should sound when it is connected as shown in the figure.

# WIPER AND WASHER

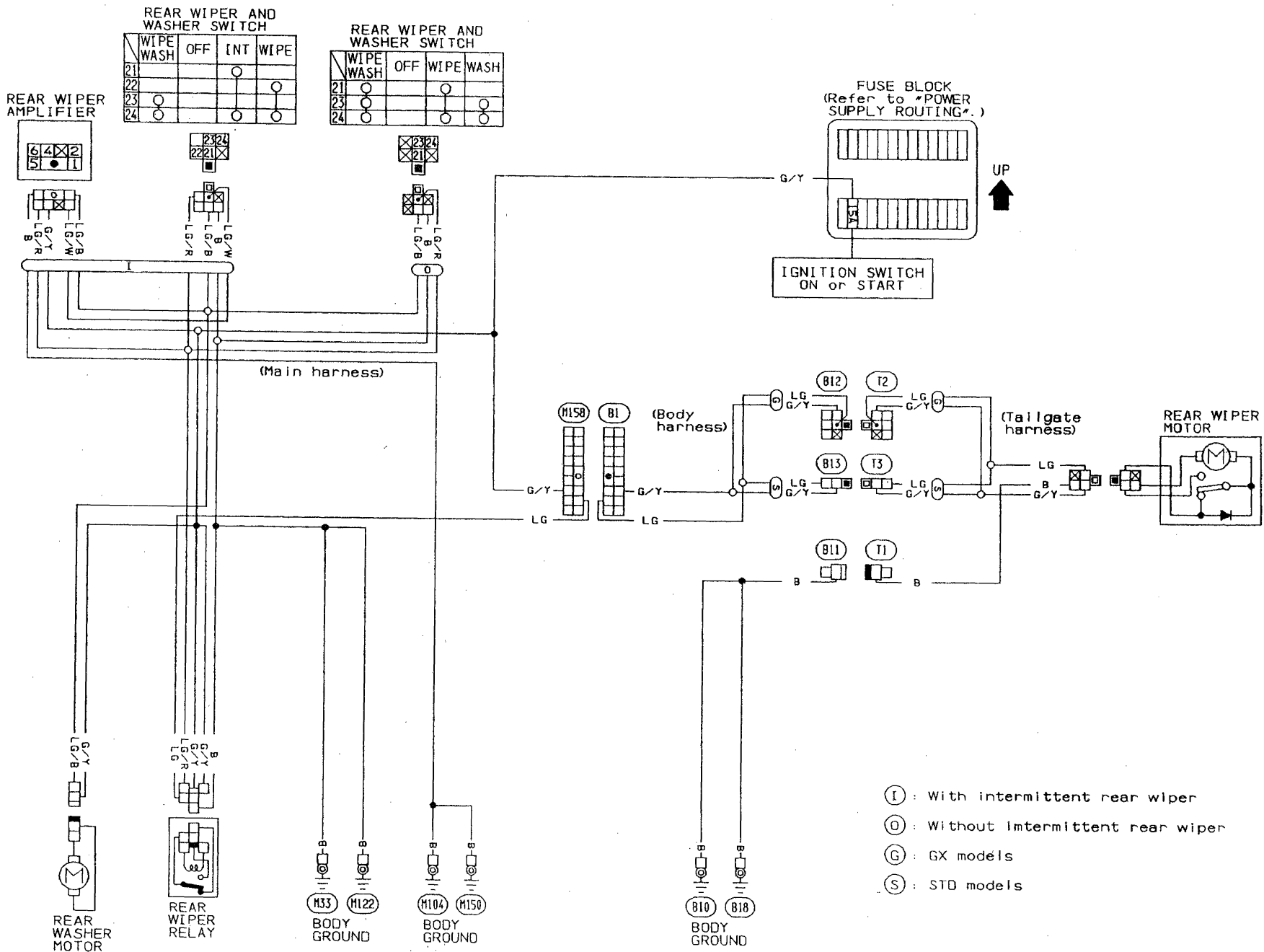
## Front Wiper and Washer/Wiring Diagram



EL-85

YEL055

## Rear Wiper and Washer/Wiring Diagram



## Installation

1. Prior to wiper arm installation, turn on wiper switch to operate wiper motor and then turn it "OFF" (Auto Stop).
2. Lift the blade up and then set it down onto glass surface to set the blade center to clearance "C" or "D" immediately before tightening nut.
3. Eject washer fluid. Turn on wiper switch to operate wiper motor and then turn it "OFF".
4. Ensure that wiper blades stop within clearance "C" or "D".

**Clearance "C": 20 - 30 mm (0.79 - 1.18 in)**

**Clearance "D": 10 - 20 mm (0.39 - 0.79 in)**

- Tighten windshield wiper arm nuts to specified torque.

**Front wiper:**

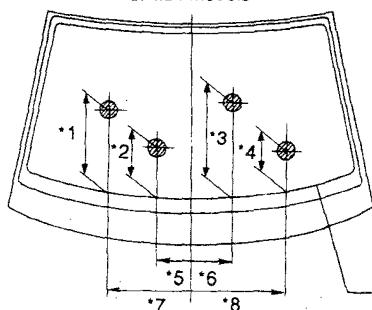
**⌚: 17 - 23 N·m (1.7 - 2.3 kg·m, 12 - 17 ft·lb)**

**Rear wiper:**

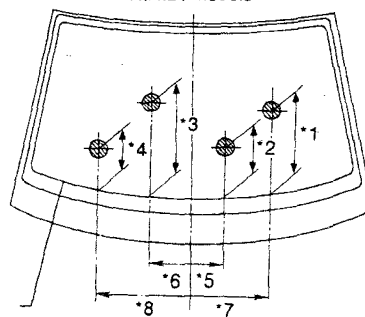
**⌚: 13 - 18 N·m (1.3 - 1.8 kg·m, 9 - 13 ft·lb)**

### Front wiper and washer

L.H.D. models

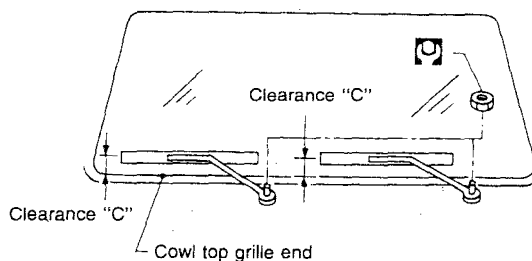


R.H.D. models



- \*1: 344 (13.54)
- \*2: 210 (8.27)
- \*3: 401 (15.79)
- \*4: 166 (6.54)
- \*5: 117 (4.61)
- \*6: 200 (7.87)
- \*7: 317 (12.48)
- \*8: 426 (16.77)

All the diameters of these circles are less than 80 (3.15).

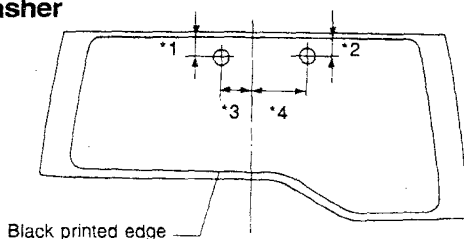


Unit: mm (in)

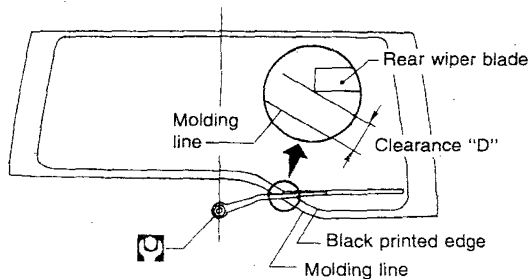
YEL077

### Rear wiper and washer

- \*1: 40 (1.57)
- \*2: 35 (1.38)
- \*3: 90 (3.54)
- \*4: 170 (6.69)



All the diameters of these circles are less than 50 (1.97).

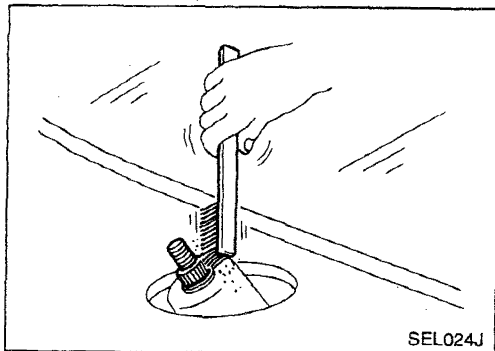


Unit: mm (in)

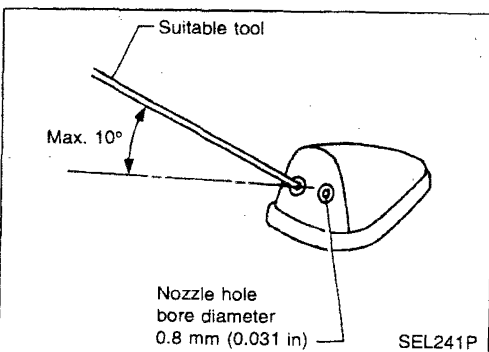
YEL078

# WIPER AND WASHER

## Installation (Cont'd)



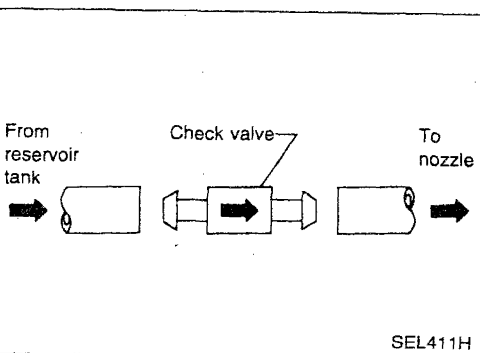
- Before reinstalling wiper arm, clean up the pivot area as illustrated. This will reduce possibility of wiper arm looseness.



## Washer Nozzle Adjustment

- Adjust washer nozzle with suitable tool as shown in the figure at left.

Adjustable range:  $\pm 10^\circ$



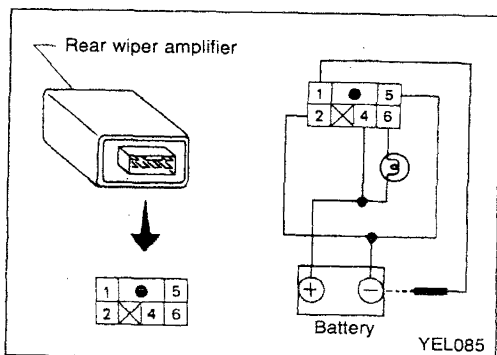
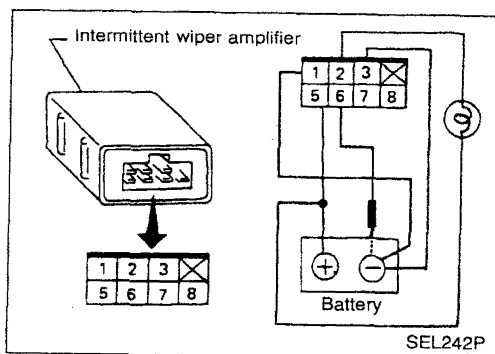
## Check Valve

- A check valve is provided in the washer fluid line. Be careful not to connect check valve to washer tube in the wrong direction.

## Wiper Amplifier Check

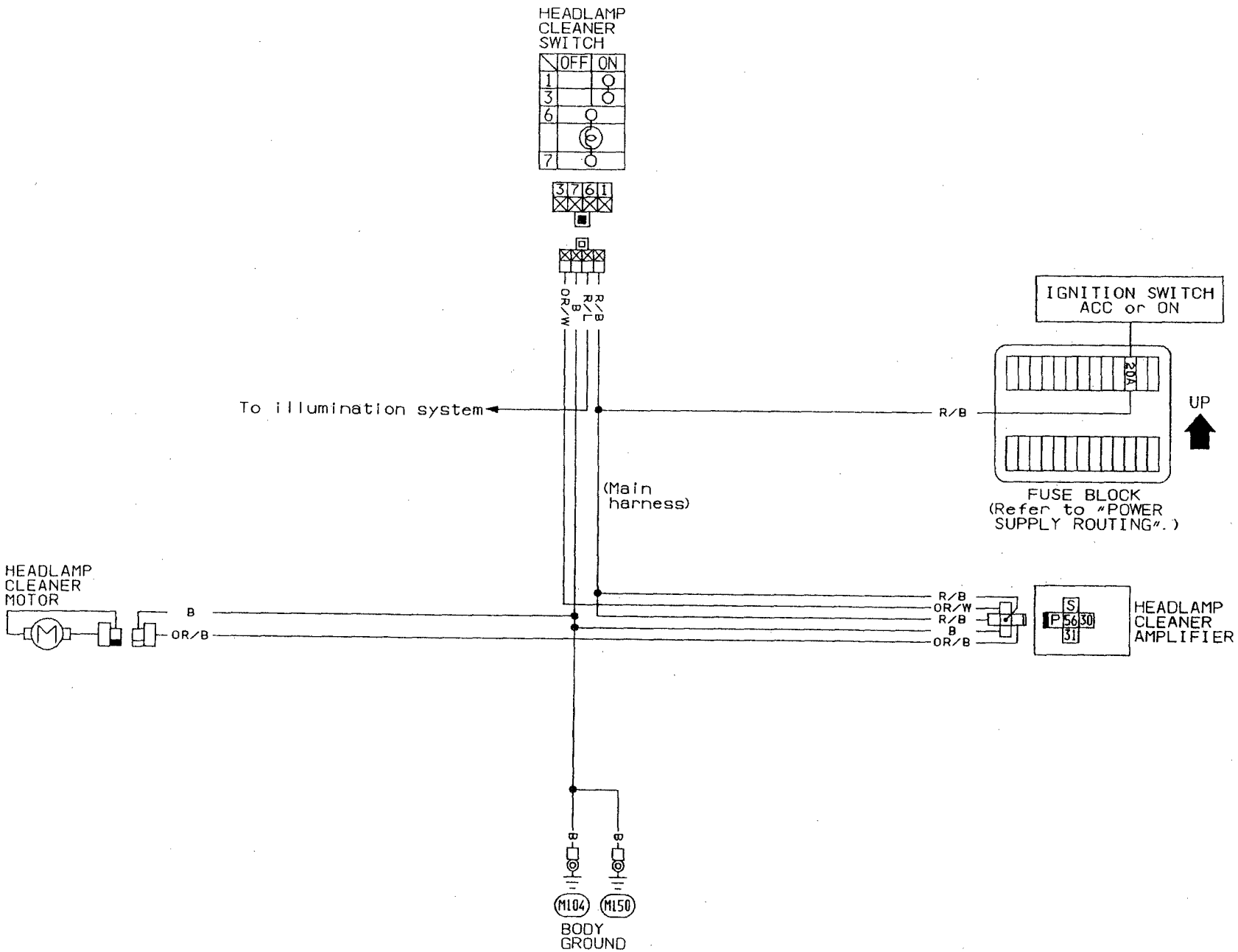
### FRONT WIPER AMPLIFIER

1. Connect as shown in the figure at left.
2. If test lamp comes on when connected to terminal ⑥ and battery ground, wiper amplifier is normal.



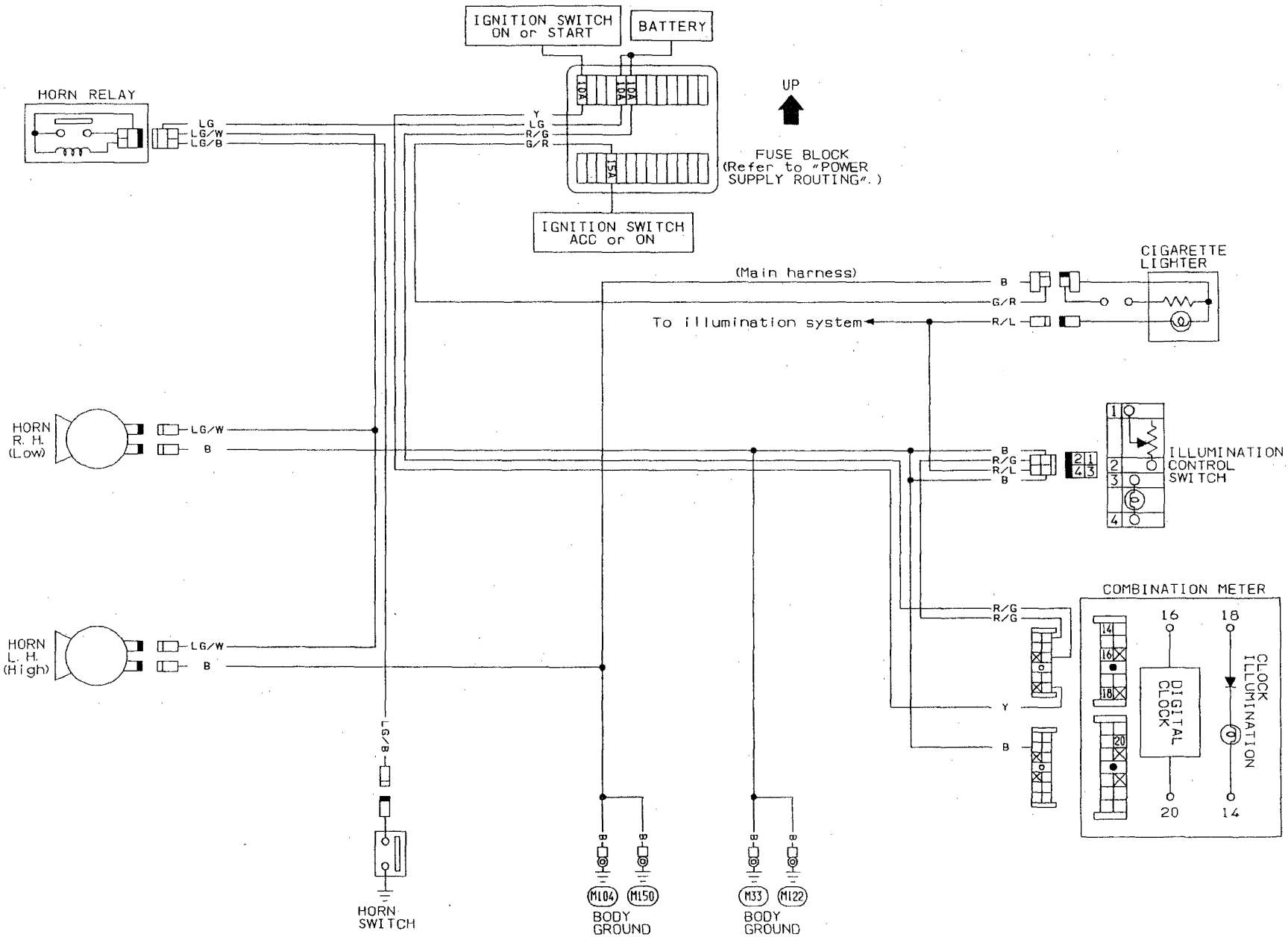


## Headlamp Washer/Wiring Diagram



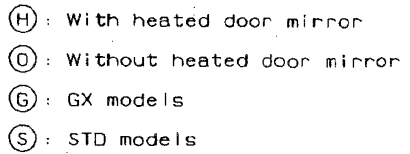
# HORN, CIGARETTE LIGHTER AND CLOCK

## Wiring Diagram



EL-90

## Wiring Diagram



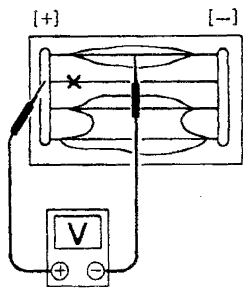
YEL061

# REAR WINDOW DEFOGGER

## Filament Check

1. Attach probe circuit tester (in volt range) to middle portion of each filament.

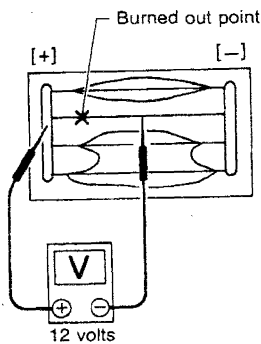
**6 volts = Normal filament**



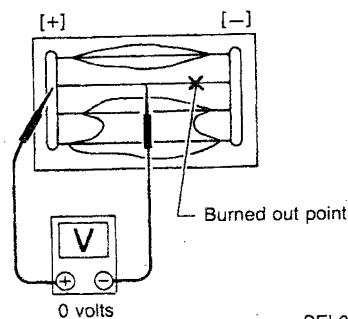
6 volts (normal filament)

SEL263

2. If a filament is burned out, circuit tester registers 0 or 12 volts.



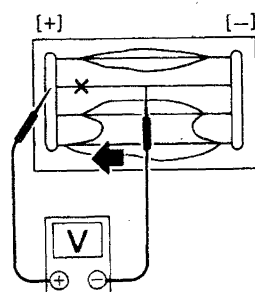
12 volts



0 volts

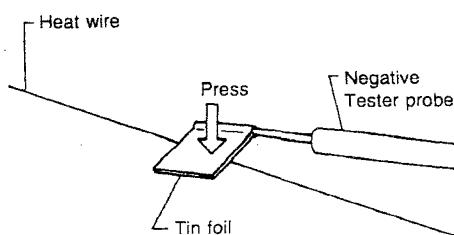
SEL265

3. To locate burned out point, move probe to left and right along filament to determine point where tester needle swings abruptly.



SEL266

- When measuring voltage, wind a piece of tin foil around the top of the negative probe and press the foil against the wire with your finger.



SEL125R

## Filament Repair

### REPAIR EQUIPMENT

1. Conductive silver composition (Dupont No. 4817 or equivalent)
2. Ruler 30 cm (11.8 in) long
3. Drawing pen
4. Heat gun
5. Alcohol
6. Cloth

### REPAIRING PROCEDURE

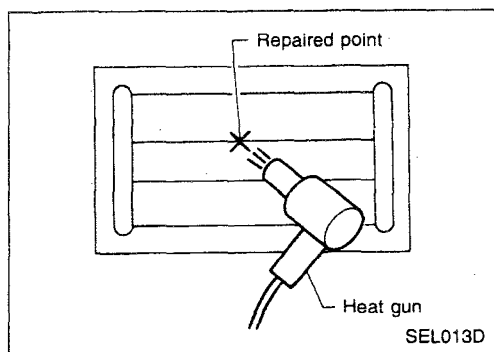
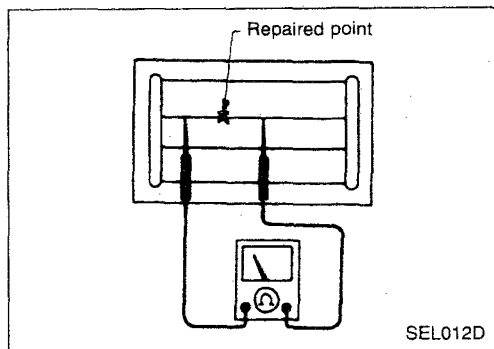
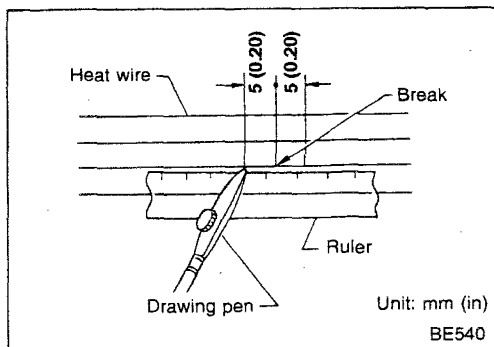
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen.

**Shake silver composition container before use.**

3. Place ruler on glass along broken line. Deposit conductive silver composition on break with drawing pen. Slightly overlap existing heat wire on both sides [preferably 5 mm (0.2 in)] of the break.

4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

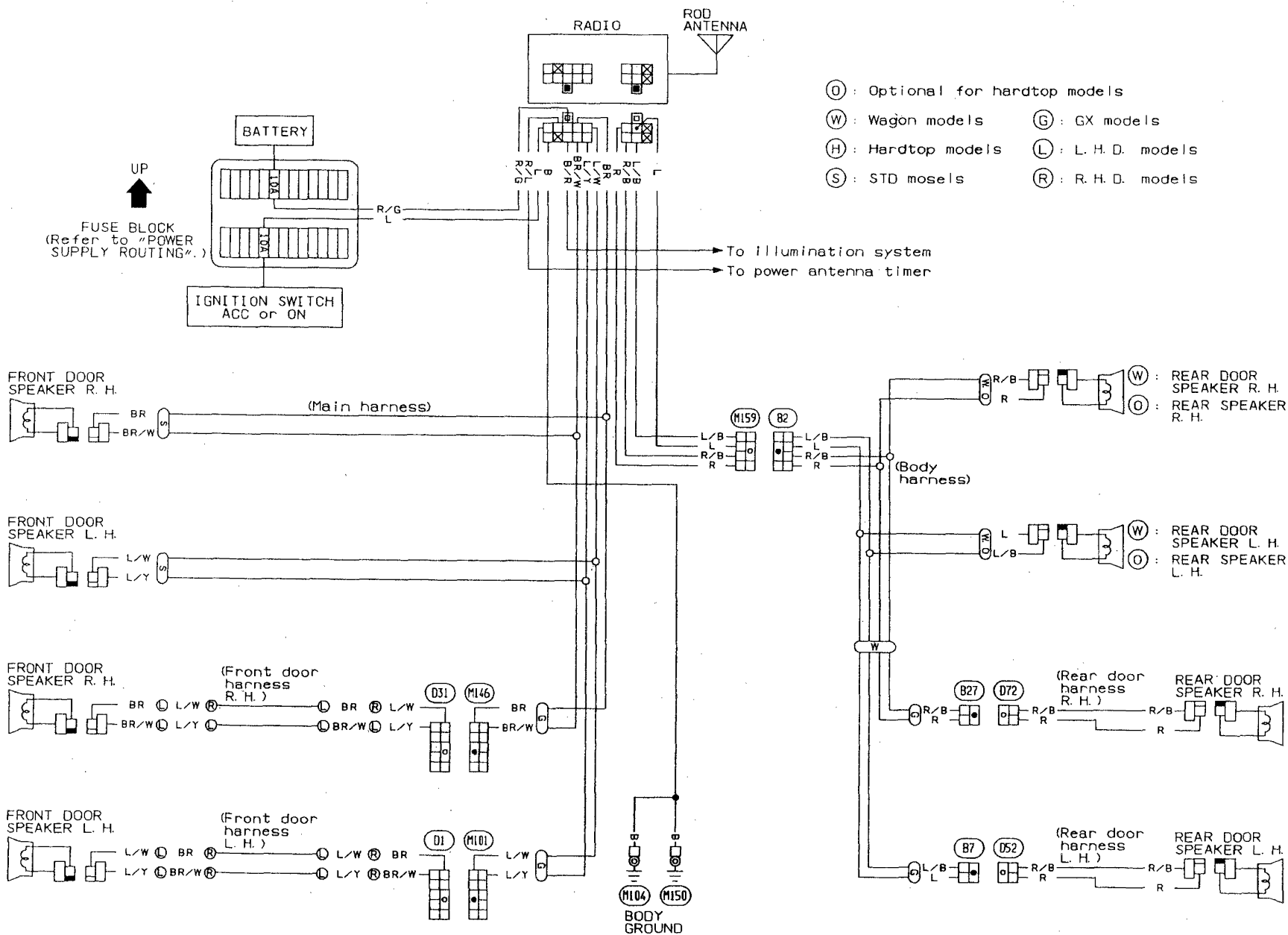
**Do not touch repaired area while test is being conducted.**

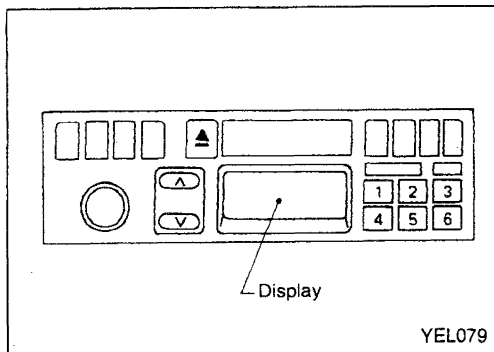


5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.

## Audio/Wiring Diagram

- (O) : Optional for hardtop models  
 (W) : Wagon models      (G) : GX models  
 (H) : Hardtop models    (L) : L. H. D. models  
 (S) : STD mosels        (R) : R. H. D. models



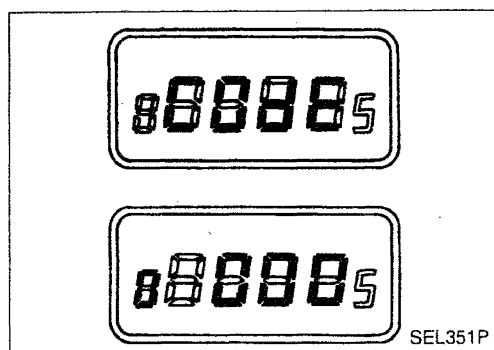


## Radio

### ANTI-THEFT SYSTEM

By using a personal 4-digit code known only to the vehicle owner, the possibility of the audio unit being stolen is effectively reduced, because without the code the unit can not be activated. When in normal use, the unit is unlocked and accessible in the usual way.

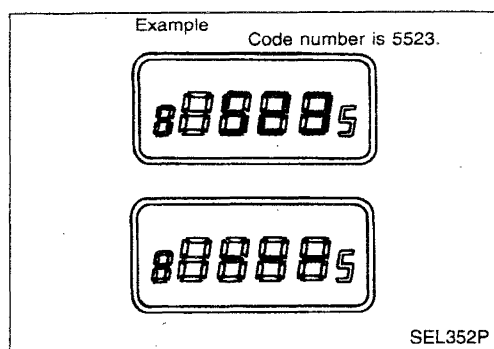
If however, someone attempts to remove the unit or the ground cable is disconnected from the battery, the Anti-theft system activates and the unit "locks". The only way it can be unlocked is by entering a personal code number known only by the owner.



### UNLOCKING THE UNIT (How to enter a personal code number)

Use the following procedures to enter a personal code number into the radio.

1. Turn ignition switch to "ACC" or "ON".
2. Turn SW. VOL knob to "ON" and "CODE" will appear on the display.
3. Press any button (except "eject") and "xxxx" will appear on the display.



4. Enter a personal code number by pressing station select buttons 1, 2, 3, 4 the required number of times to display the code.

5. Press xxxx to enter the code.

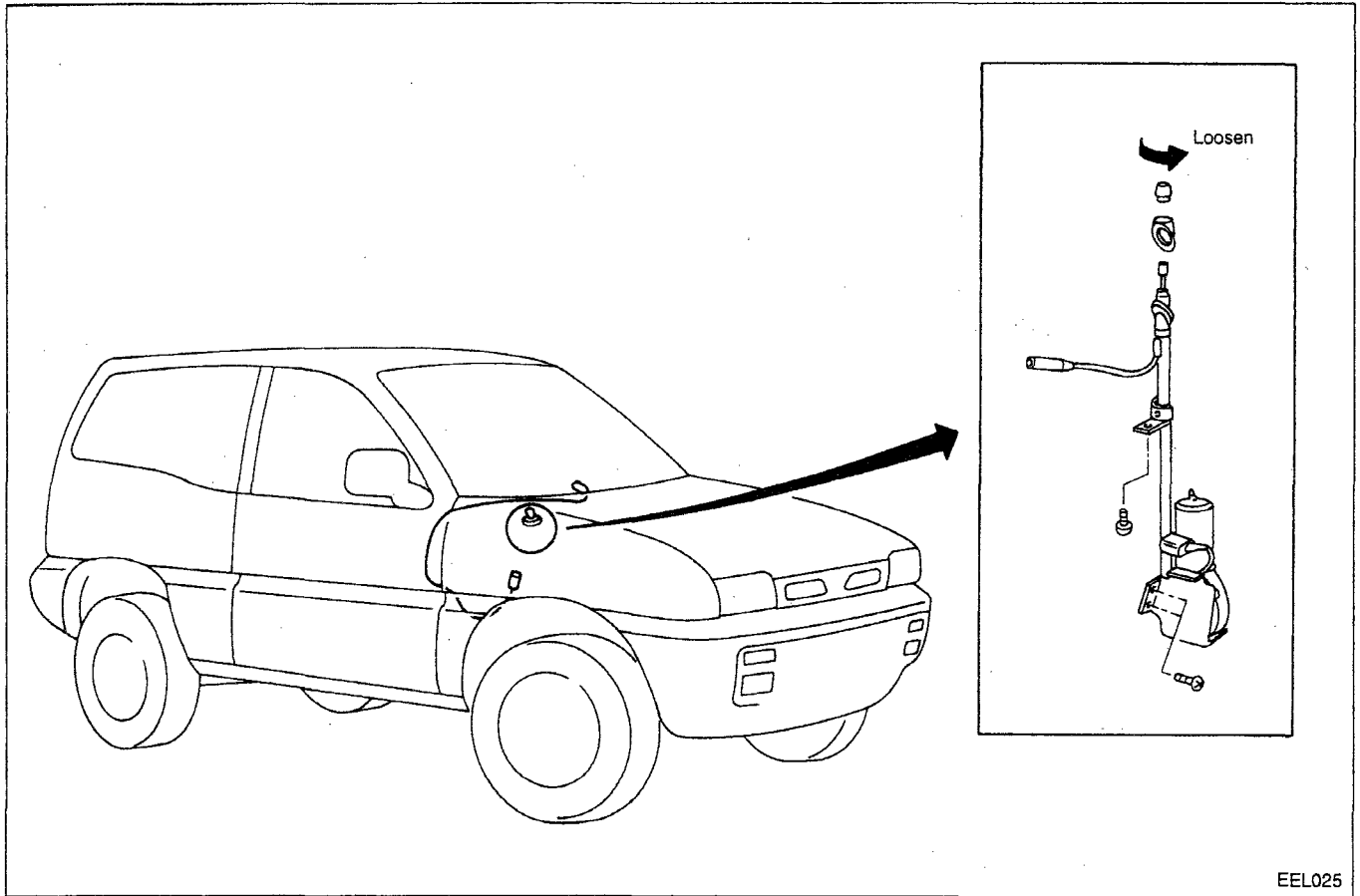
Unit is unlocked and the radio/cassette will operate.

If the wrong code number is entered, the display shows "- - - -". Wait ten seconds then enter the correct code.

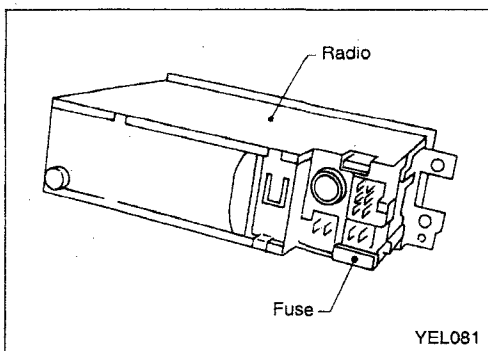
### CAUTION:

There is a theft prevention mechanism restricting the number of times a wrong code number can be entered into the radio unit. If a wrong code number is entered 1 to 2 times, you will have to wait for 10 seconds before the radio will receive further input. If a wrong code number is entered 3 to 20 times, you will have to wait a duration of 15 minutes. The radio unit will lock permanently if any further attempts are made.

## Location of Antenna



EEL025

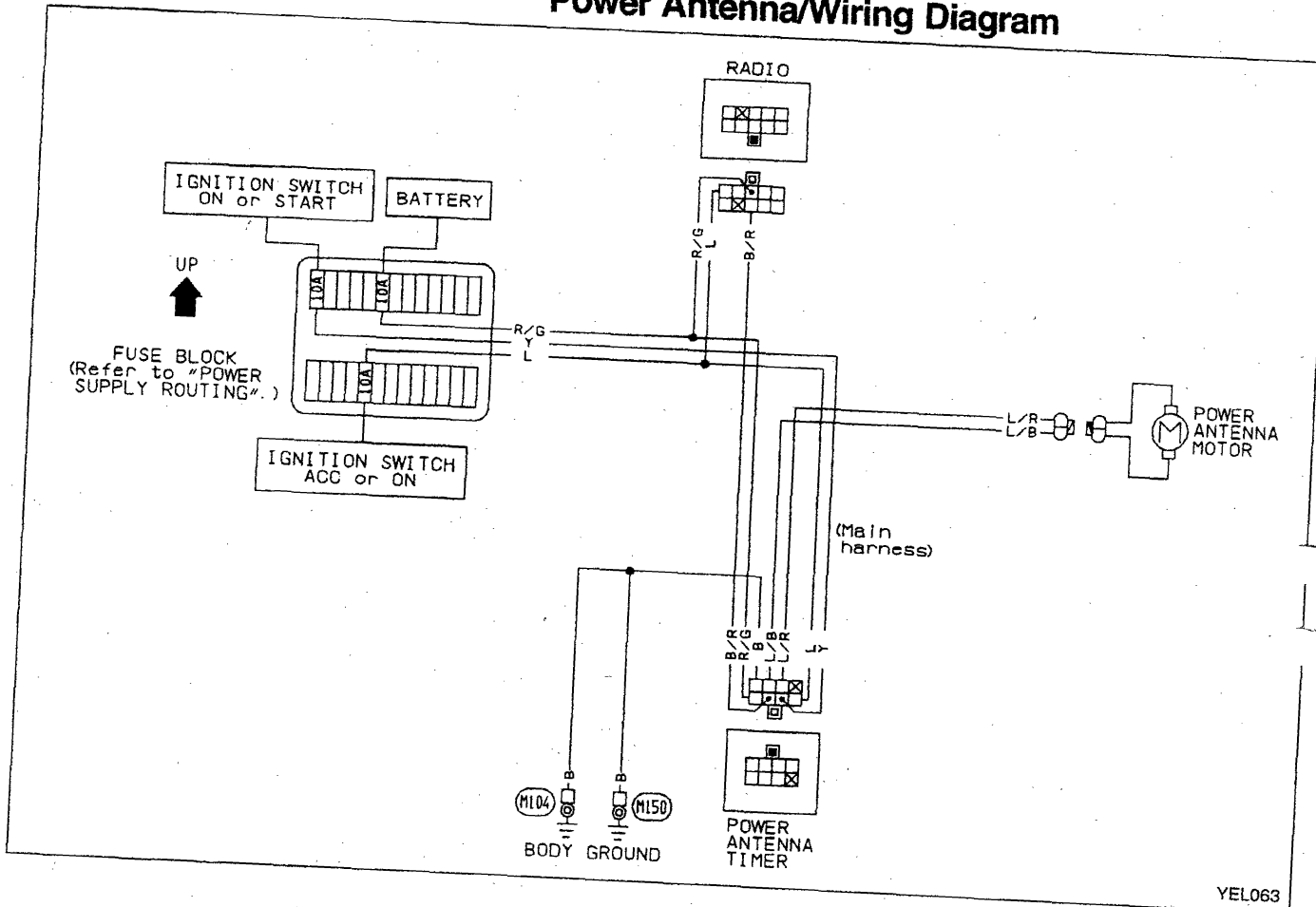


## Radio Fuse Check



# AUDIO AND POWER ANTENNA

## Power Antenna/Wiring Diagram

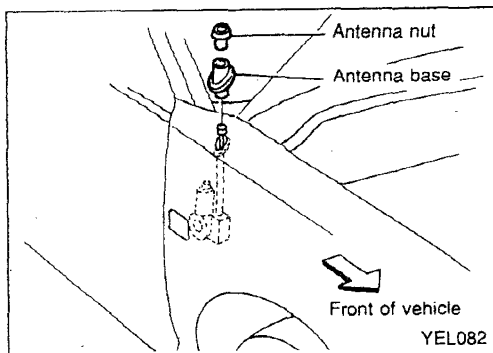


YEL063

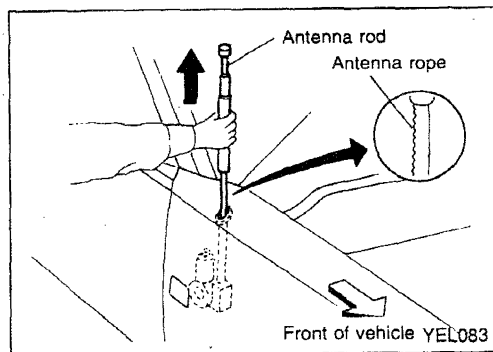
## Antenna Rod Replacement

### REMOVAL

1. Remove antenna nut and antenna base.

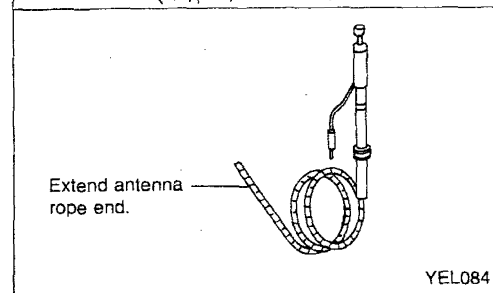
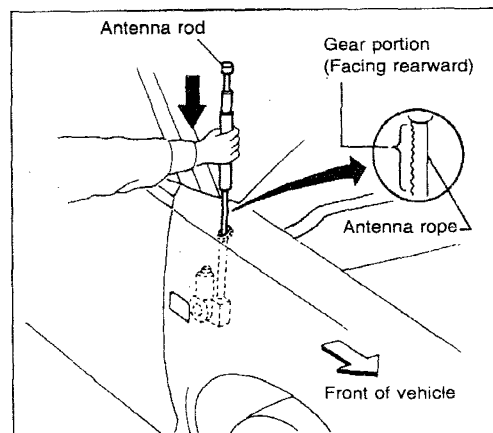


2. Withdraw antenna rod while raising it by operating antenna motor.



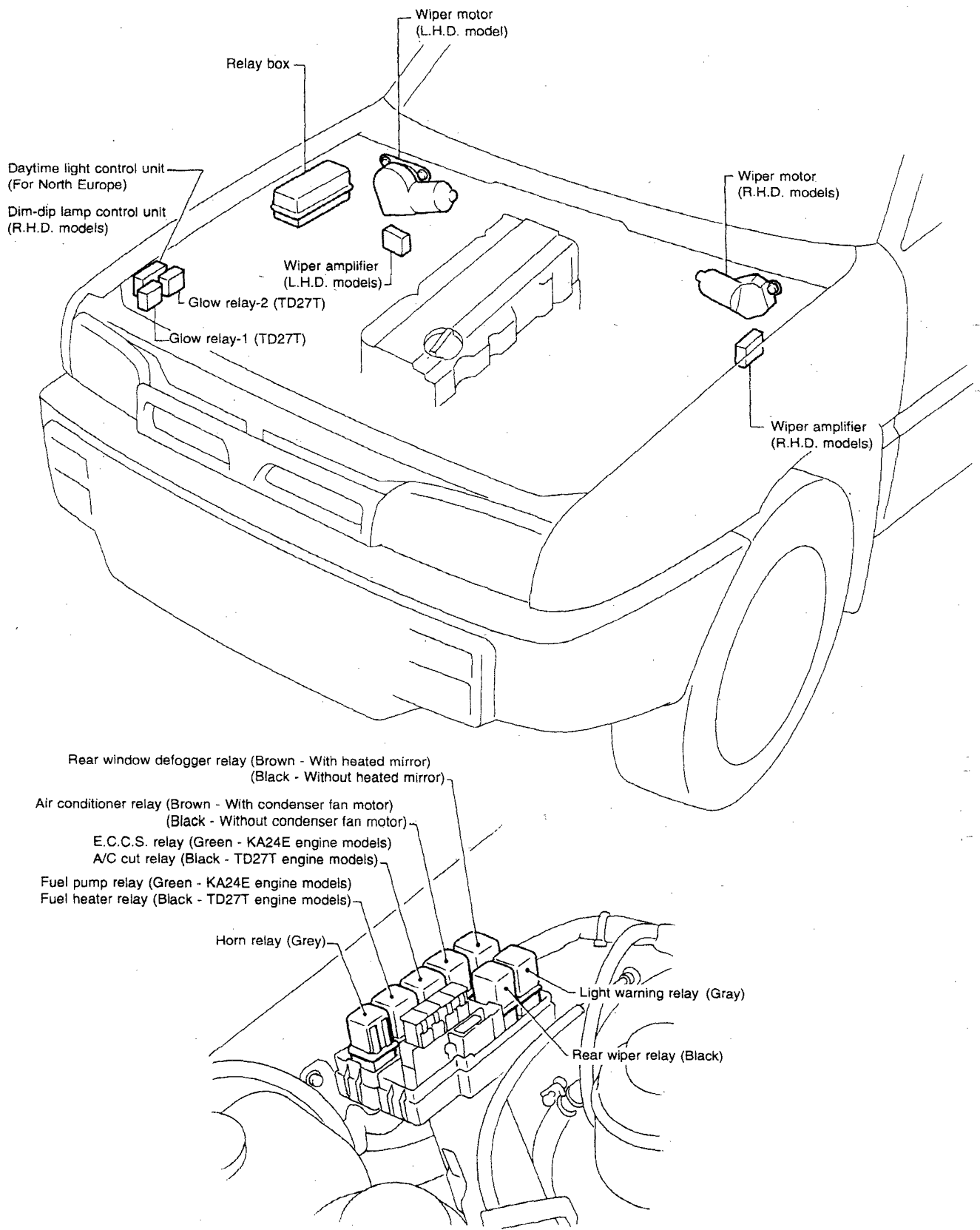
### INSTALLATION

1. Lower antenna rod by operating antenna motor.
2. Insert gear section of antenna rope into place with it facing toward antenna motor.
3. As soon as antenna rope is wound on antenna motor, stop antenna motor. Insert antenna rod lower end into antenna motor pipe.
4. Retract antenna rod completely by operating antenna motor.
5. Install antenna nut and base.



# LOCATION OF ELECTRICAL UNITS

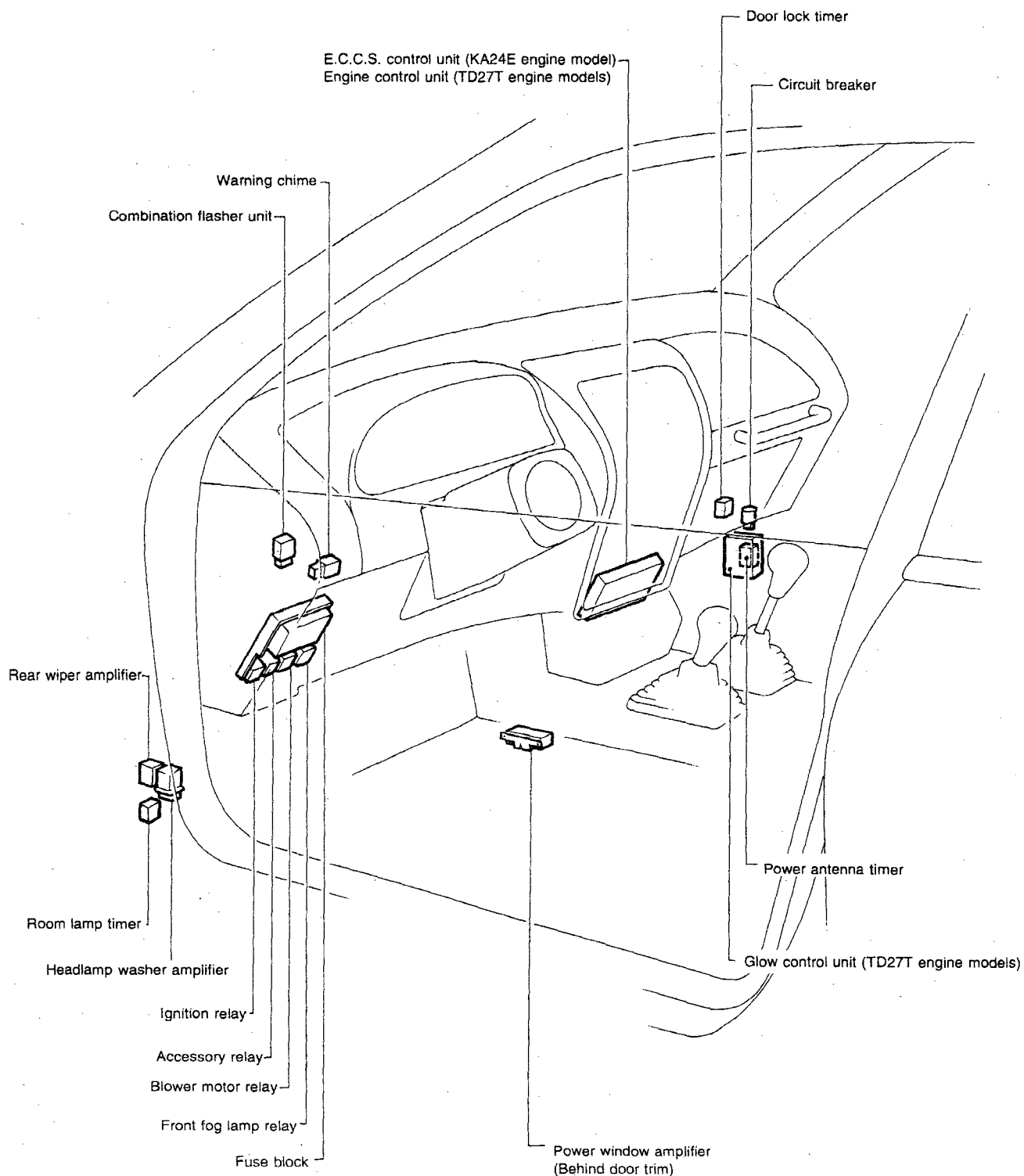
## Engine Compartment



# LOCATION OF ELECTRICAL UNITS

## Passenger Compartment

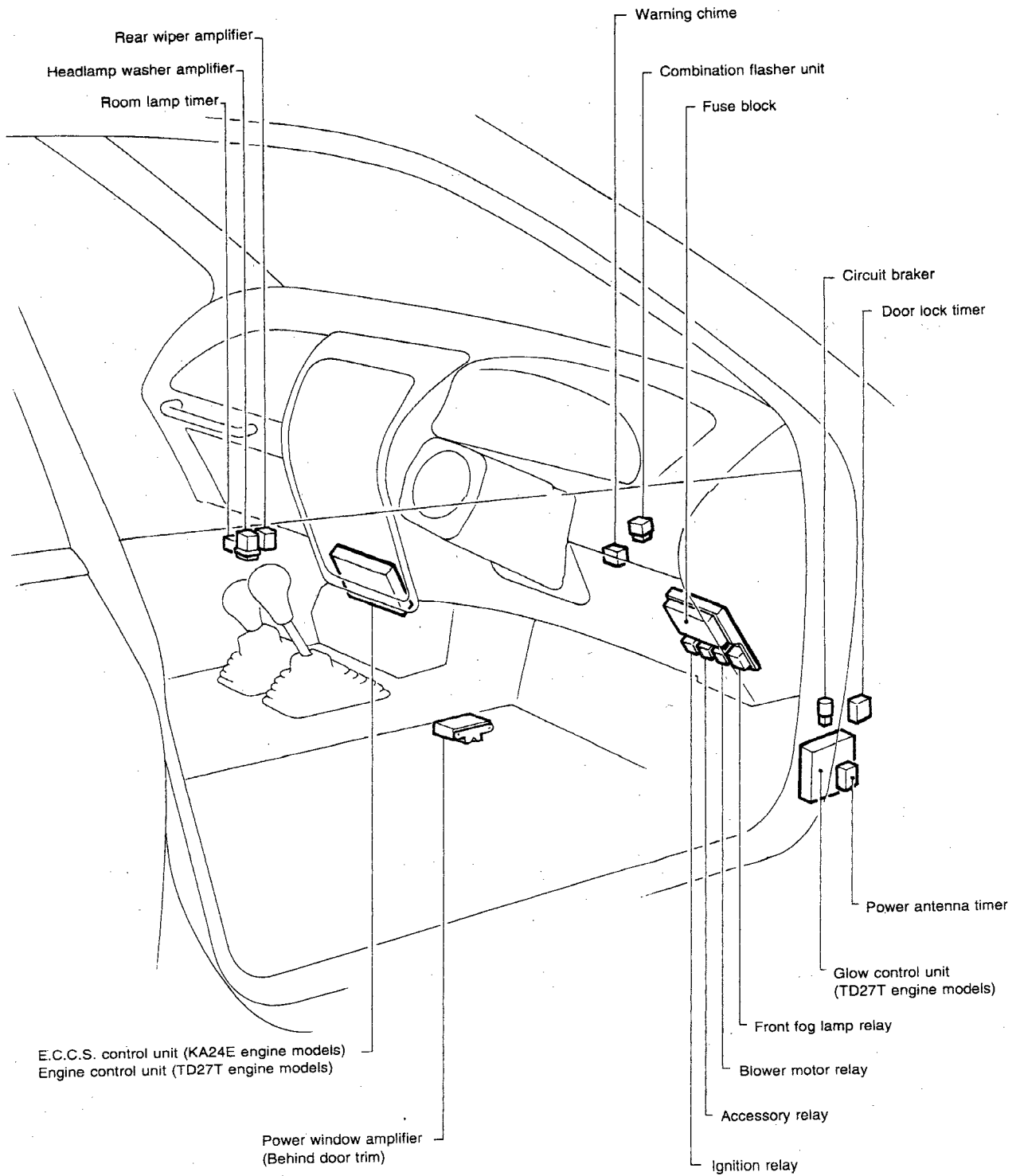
L.H.D. MODELS



# LOCATION OF ELECTRICAL UNITS

## Passenger Compartment (Cont'd)

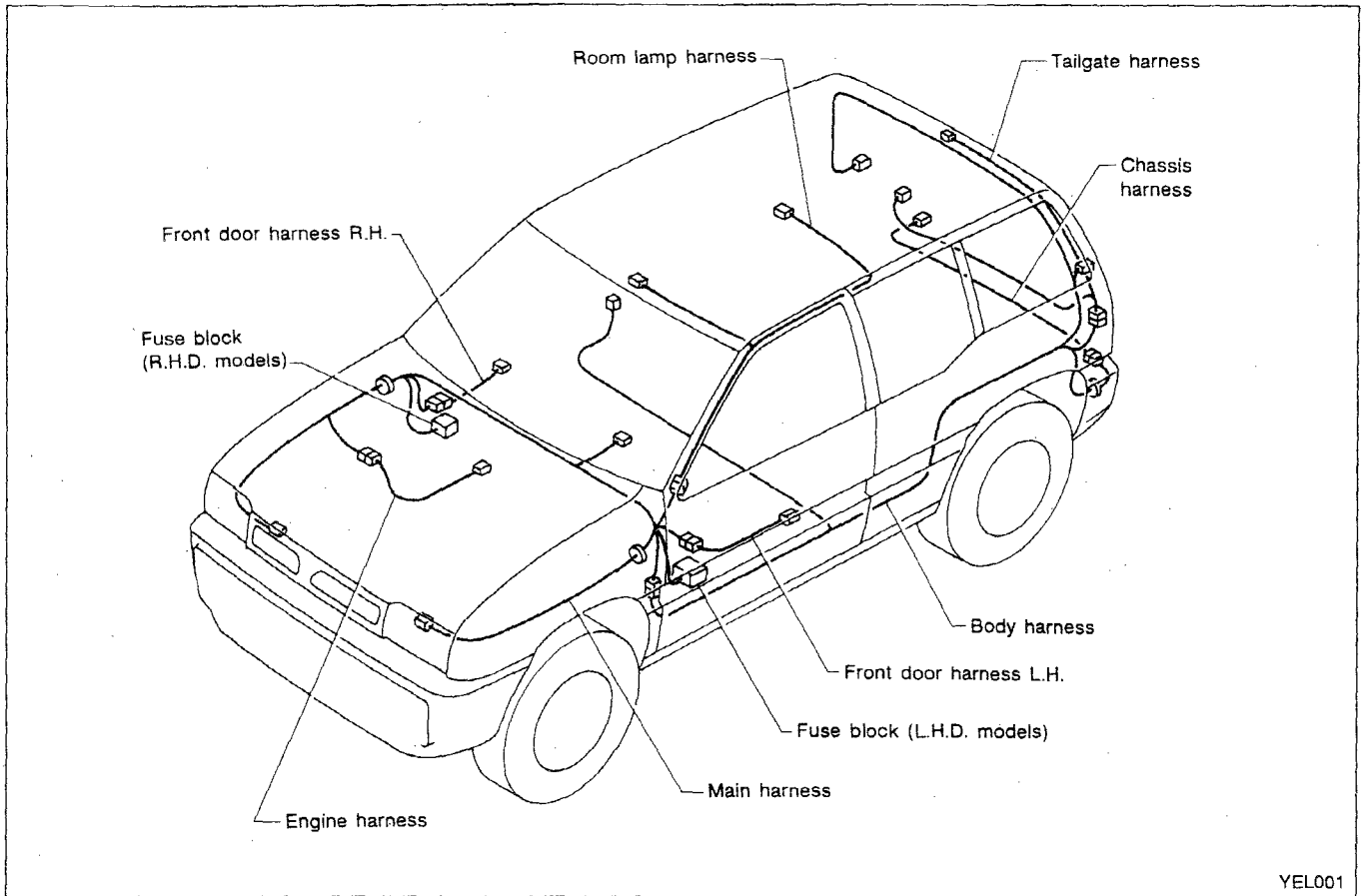
R.H.D. MODELS



# HARNESS LAYOUT

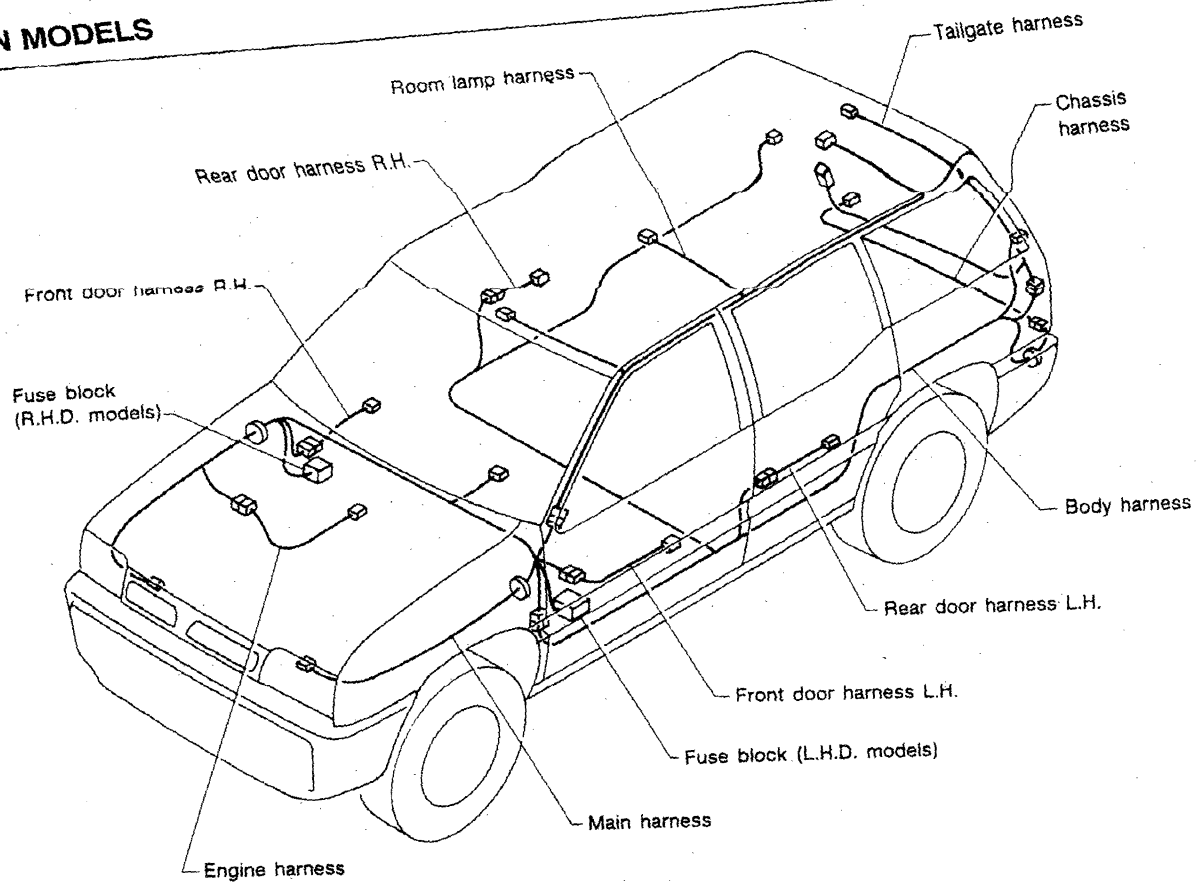
## Outline

### HARDTOP MODELS



# HARNESS LAYOUT Outline (Cont'd)

## WAGON MODELS



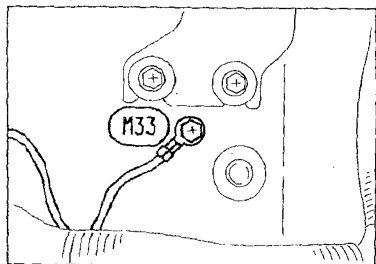
YEL002

# HARNES LAYOUT

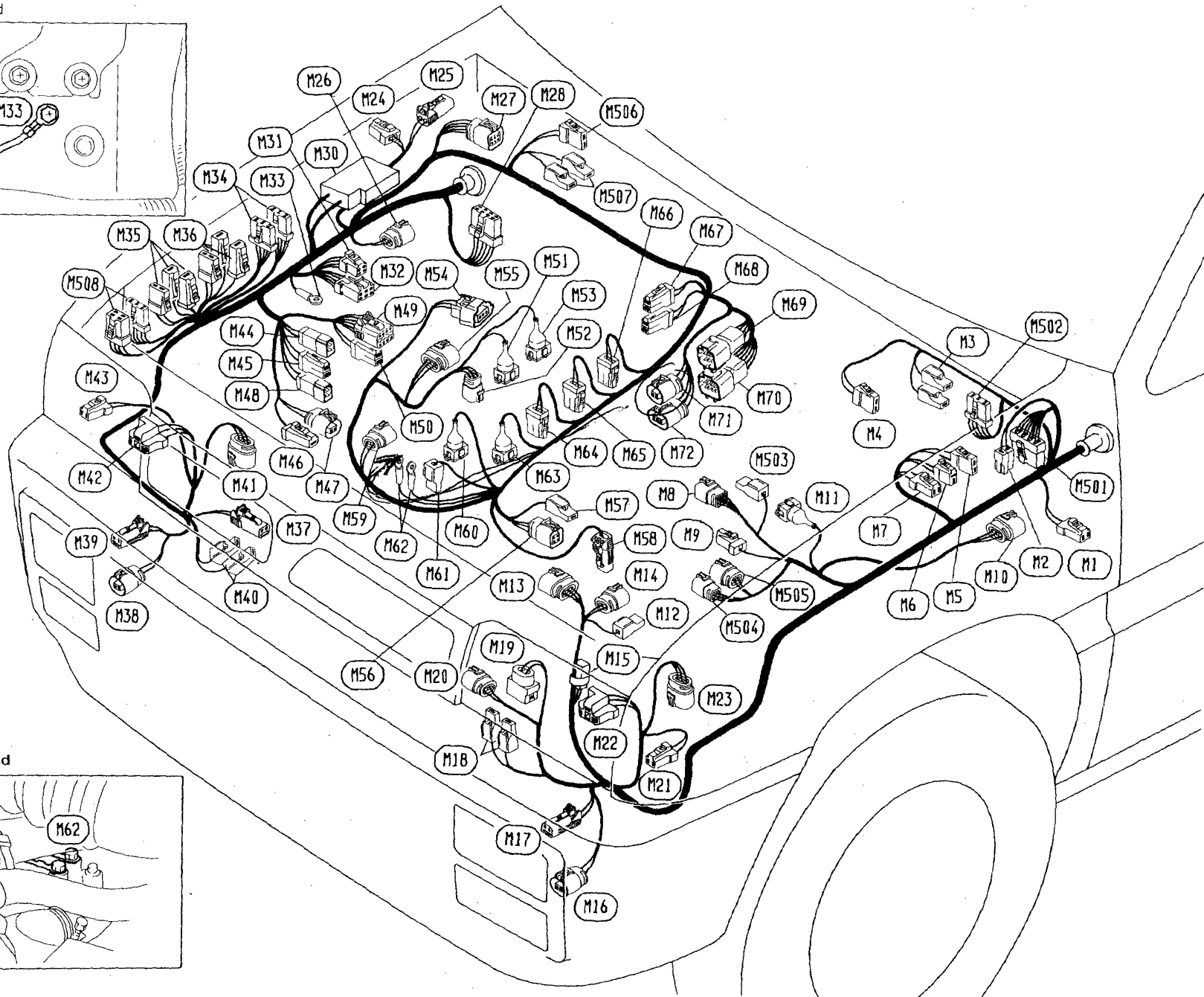
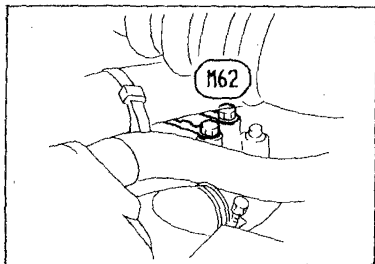
ENGINE COMPARTMENT

Main Harness

Body ground



Engine ground



EL-104



# DISPOSIZIONE CABLAGGIO

## Cablaggio Principale (Continuazione)

EL-105

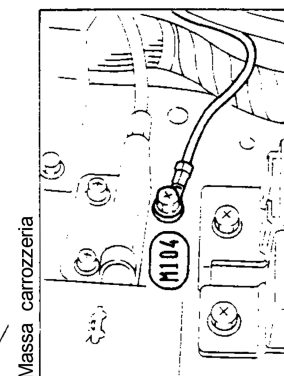
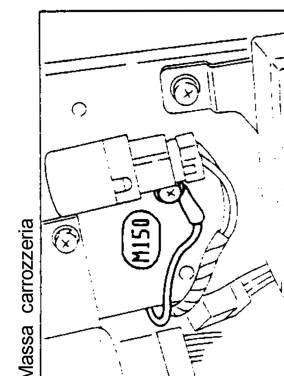
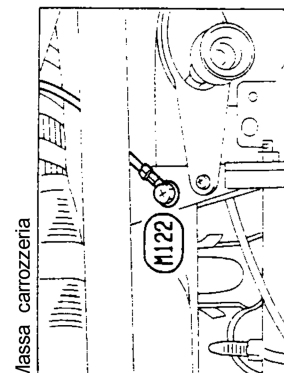
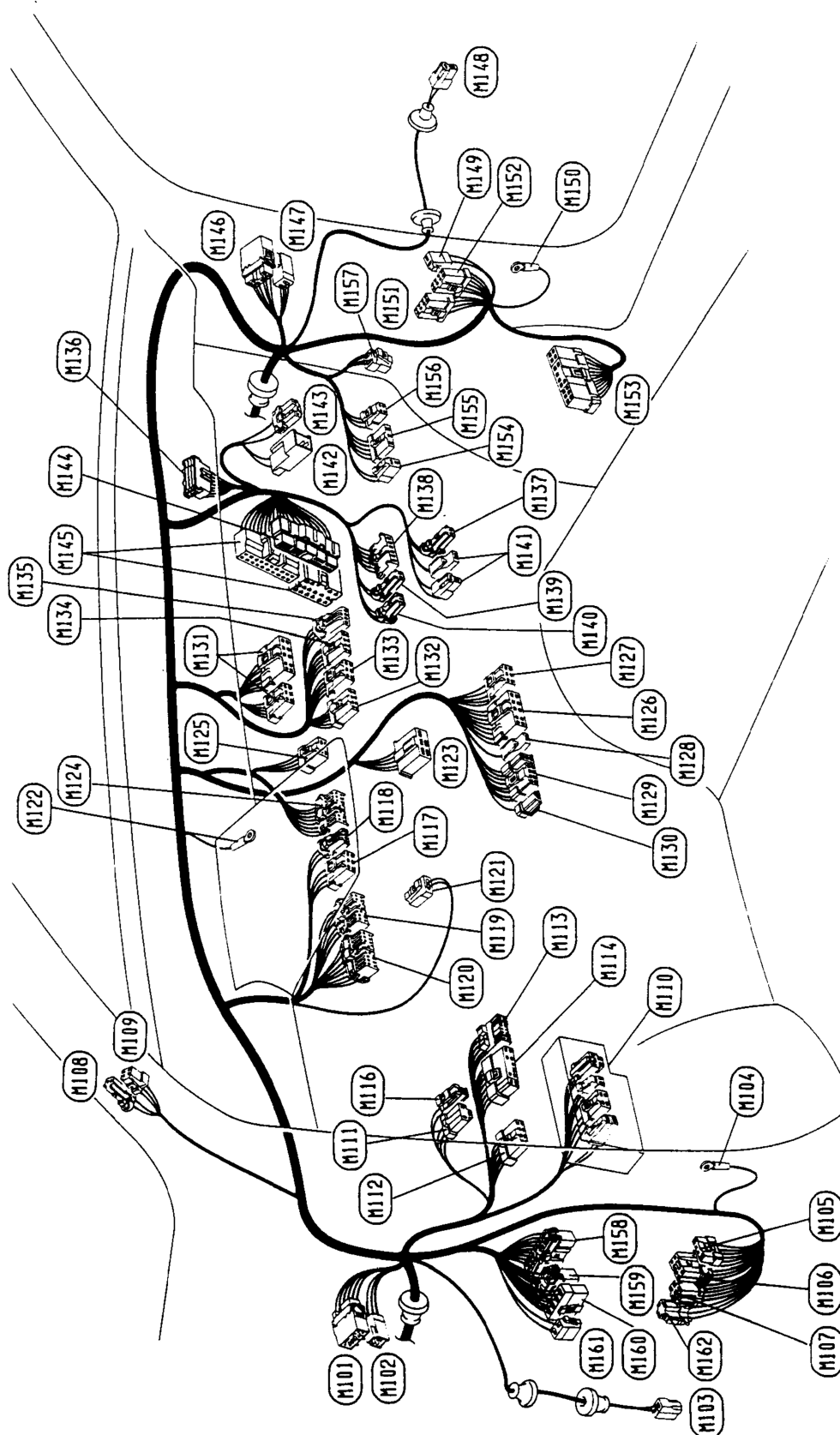
- M1 : Indicatore di direzione laterale sinistro
- M2 : Motore lavaproiettori
- M3 : Elettrovalvola F.I.C.D. (Modelli con guida a destra con motore TD27T)
- M4 : Interruttore livello fluido freni (Modelli con guida a sinistra)
- M5 : Motore lavalunotto
- M6 : Motore lavaparabrezza
- M7 : Interruttore livello liquido lavavetri
- M8 : Elettrovalvola E.G.R. } (Modelli con motore TD27T)
- M9 : Interrut. segnalaz. depressione }
- M10 : Sensore gas di scarico }
- M11 : Elettrovalvola comando A.I.V. } (Modelli con motore KA24E)
- M12 : Massa bobina }
- M13 : Transistore di potenza }
- M14 : Bobina }
- M15 : Resistenza e condensatore }
- M16 : Luce antinebbia anteriore sinistra }
- M17 : Indicatore di direzione anteriore sinistro }
- M18 : Avvisatore acustico sinistro (Alto) }
- M19 : Motore ventilatore condensatore (Con condizionatore aria) }
- M20 : Interruttore temperatura acqua (Modelli con motore TD27T con condizionatore aria) }
- M21 : Luce di posizione anteriore destra }
- M22 : Proiettore sinistro }
- M23 : Motore comando orientamento proiettore sinistro (Modelli con guida a sinistra) }
- M24 : Indicatore di direzione laterale destro }
- M25 : Motore antenna automatica }
- M26 : Sensore filtro carburante (Modelli con guida a sinistra con motore TD27T) }
- M27 : Motore tergicristalli (Modelli con guida a sinistra) }
- M28 : Amplificatore tergicristalli intermittente (Modelli con guida a sinistra) }
- M30 : Scatola relè (Fare riferimento a "UBICAZIONE DELLE APPARECCHIATURE ELETTRICHE") }
- M31 : Al kit di cablaggio condizionatore aria (Modelli con motore TD27T)
- M32 : Al kit di cablaggio condizionatore aria (Modelli con motore KA24E)
- M33 : Massa carrozzeria
- M34 : Centralina illuminazione a giorno (Per Europa Settentrionale)
- M35 : Relè-1 preriscaldamento }
- M36 : Relè-2 preriscaldamento }
- M37 : Pressostato doppio
- M38 : Luce antinebbia anteriore destra

- M39 : Indicatore di direzione anteriore destro
- M40 : Avvisatore acustico destro (Basso)
- M41 : Motore comando orientamento proiettore destro (Modelli con guida a sinistra)
- M42 : Proiettore destro
- M43 : Luce di posizione anteriore destra
- M44 : A E102 } (Modelli con motore TD27T)
- M45 : A E103 }
- M46 : Batteria
- M47 : Pressostato olio servosterzo } (Modelli con motore KA24E)
- M48 : Filamento fusibile }
- M49 : A E3 }
- M50 : A E2 }
- M51 : Elettrovalvola S.C.V. }
- M52 : Elettrovalvola F.I.C.D. e A.A.C. }
- M53 : Elettrovalvola controllo E.G.R. e contenitore }
- M54 : Flussometro aria }
- M55 : Interruttore valvola a farfalla }
- M56 : Sensore giri/fase }
- M57 : Massa spinterogeno }
- M58 : Compressore }
- M59 : Sensore temperatura aria }
- M60 : Sensore temperatura motore }
- M61 : Trasmettitore temperatura }
- M62 : Massa motore }
- M63 : Iniettore N°1 }
- M64 : Iniettore N°2 }
- M65 : Iniettore N°3 }
- M66 : Iniettore N°4 }
- M67 : Candelella preriscaldamento }
- M68 : Resistenza di caduta }
- M69 : A E104 } (Modelli con motore TD27T)
- M70 : A E105 }
- M71 : Sensore giri motore }
- M72 : Pompa iniezione }
- M81 : Amplificatore tergicristalli intermittente (Modelli con guida a destra)
- M82 : Motore tergicristalli (Modelli con guida a destra)
- M83 : Pressostato carburante }
- M84 : Riscaldatore carburante }
- M85 : Sensore filtro carburante }
- M86 : Elettrovalvola F.I.C.D. }
- M87 : Interruttore livello fluido freni (Modelli con guida a destra)
- M88 : Centralina attenuazione anabbaglianti (Modelli con guida a destra)

# DISPOSIZIONE CABLAGGI

## Cablaggio Principale (Continuazione)

ABITACOLO MODELLI CON GUIDA A SINISTRA



EL-107

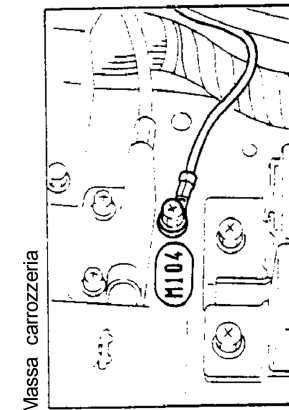
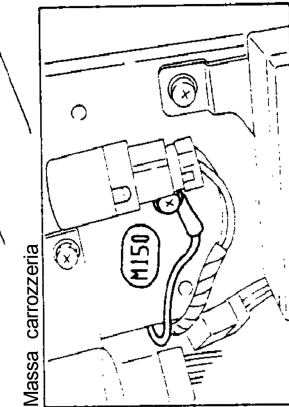
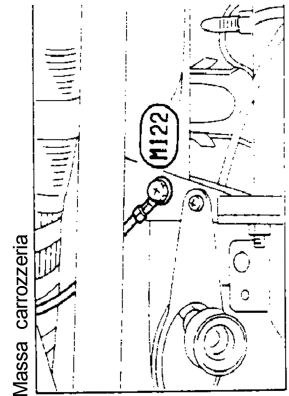
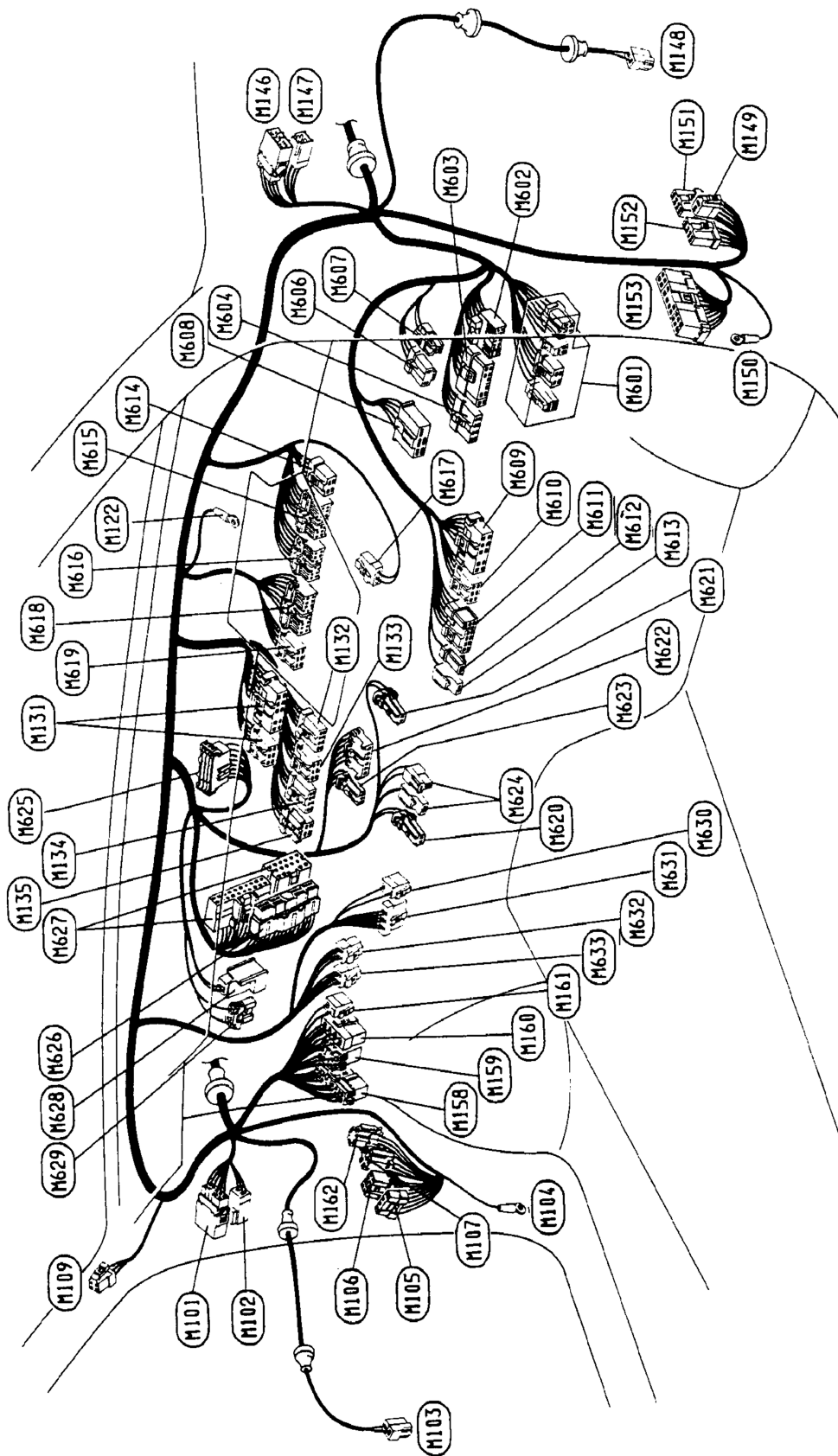
- (N101) : A (D1)
- (N102) : A (D2)
- (N103) : Altoparlante porta anteriore sinistra
- (N104) : Massa carrozzeria
- (N105) : Temporizzatore luci abitacolo
- (N106) : Amplificatore tergilunotto
- (N107) : Amplificatore lavaproiettori
- (N108) : A (R1) (Modelli STD a 3 porte con motore TD27T per Europa Meridionale)
- (N109) : A (R2) (Eccetto modelli STD a 3 porte con motore TD27T per Europa Meridionale)
- (N110) : Scatola fusibili
- (N111) : Gruppo lampeggiatore
- (N112) : Interruttore specchietto esterno
- (N113) : Connettore diagnostico per CONSULT (Modelli con motore KA24E)
- (N114) : Connettore di prova (Modelli con motore TD27T)
- (N116) : Cicalino
- (N117) : Interruttore luci antinebbia anteriori
- (N118) : Interruttore orientamento proiettori
- (N119) : Quadro strumenti
- (N120) : Quadro strumenti
- (N121) : Interruttore luci stop
- (N122) : Massa carrozzeria
- (N123) : Commutatore d'avviamento
- (N124) : Quadro strumenti
- (N125) : Interruttore comando illuminazione
- (N126) : Interruttore tergicristalli
- (N127) : Interruttore tergilunotto
- (N128) : Int avvisatore acustico (Gruppo devio-guida-comando)
- (N129) : Interruttore illuminazione tergicristalli/lava cristalli
- (N130) : Interruttore illuminazione

- (N131) : Radio
- (N132) : Interruttore lavaproiettori
- (N133) : Interruttore luci antinebbia posteriori
- (N134) : Interruttore segnalatori d'emergenza
- (N135) : Interruttore sbrinatori lunotto
- (N136) : Giunzione
- (N137) : Illuminazione posacenere
- (N138) : Interruttore ventola
- (N139) : Illuminazione comandi riscaldatore
- (N140) : Pulsante condizionatore aria
- (N141) : Accendisigari
- (N142) : Luce cassetto portaguanti
- (N143) : Interruttore luce cassetto portaguanti
- (N144) : Centralina E.C.C.S. (Modelli con motore KA24E)
- (N145) : Centralina preriscaldamento (Modelli motore TD27T con E.G.R.)
- (N146) : A (D31)
- (N147) : A (D32)
- (N148) : Altoparlante porta anteriore destra
- (N149) : Interruttore automatico
- (N150) : Massa carrozzeria
- (N151) : Temporizzatore bloccaggio porte
- (N152) : Temporizzatore antenna automatica
- (N153) : Centralina preriscaldamento (Modelli con motore TD27T)
- (N154) : Motore ventilatore
- (N155) : Resistenza
- (N156) : Amplificatore controllo temperatura
- (N157) : Al kit cablaggio condizionatore aria
- (N158) : A (B1)
- (N159) : A (B2)
- (N160) : A (B3) (Per modelli GX)
- (N161) : A (B4) (Eccetto modelli GX)
- (N162) : Relè luci antinebbia posteriori

## DISPOSIZIONE CABLAGGI

### Cablaggio principale (Continuazione)

ABITACOLO MODELLI CON GUIDA A DESTRA



# DISPOSIZIONE CABLAGGIO

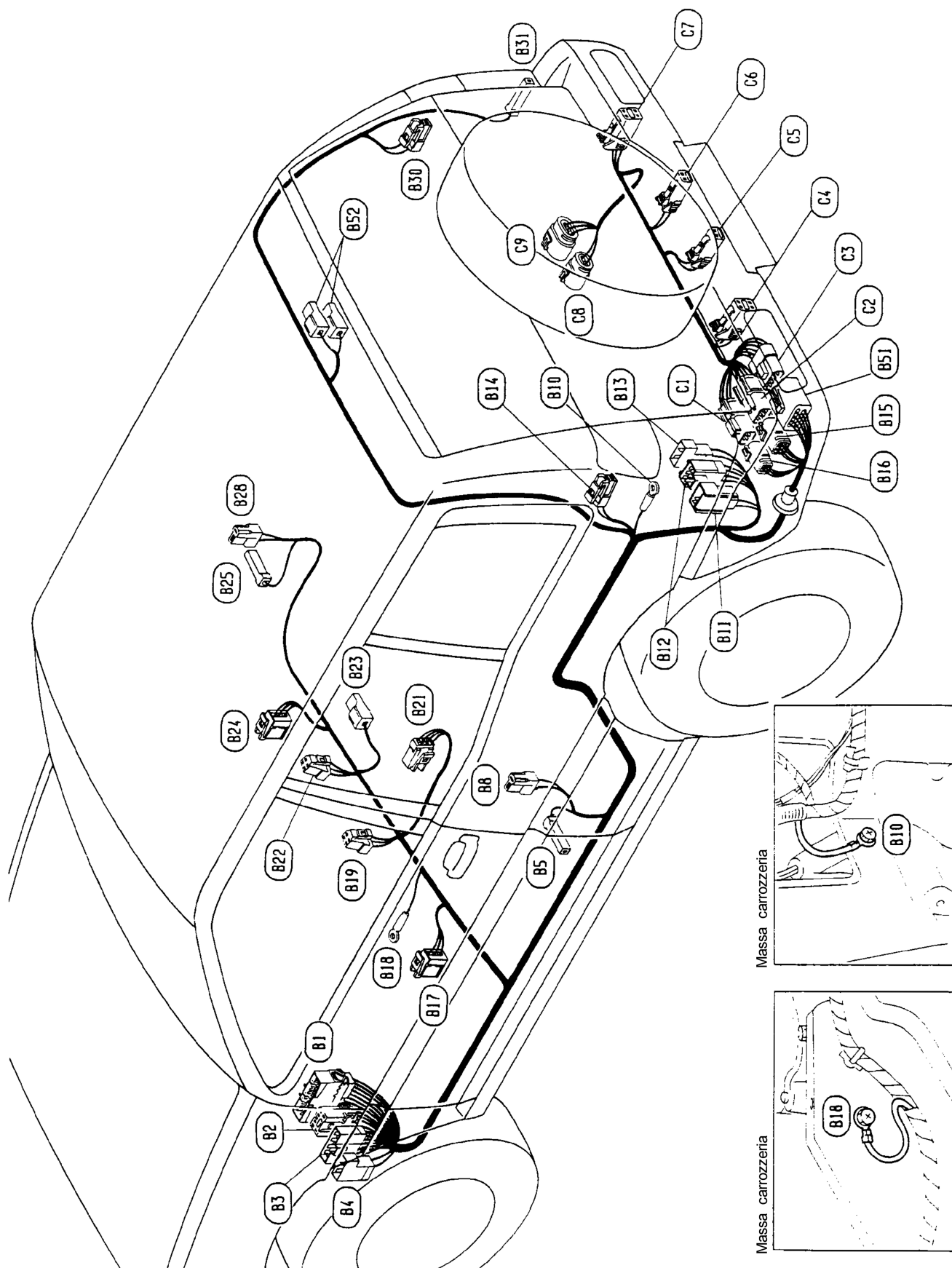
## Cablaggio Principale (Continuazione)

M101	: A 01	M606	: Gruppo lampeggiatore
M102	: A 02	M607	: Cicalino
M103	: Altoparlante porta anteriore sinistra	M608	: Commutatore d'avviamento
M104	: Massa carrozzeria	M609	: Interruttore tergicristalli
M105	: Temporizzatore luci abitacolo	M610	: Interruttore tergilunotto
M106	: Amplificatore tergilunotto	M611	: Int. illuminazione (Gruppo devioguida-comando
M107	: Amplificatore lavaproiettori	M612	: Int. avvisatore acustico } tergi/lava cristalli)
M109	: A R2	M613	: Int. comando illuminaz.
M122	: Massa carrozzeria	M614	: Quadro strumenti
M131	: Radio	M615	: Quadro strumenti
M132	: Interruttore lavaproiettori	M616	: Interruttore luci stop
M133	: Interruttore luci antinebbia posteriori	M617	: Quadro strumenti
M134	: Interruttore segnalatori d'emergenza	M618	: Interruttore luci antinebbia anteriori
M135	: Interruttore sbrinatori lunotto	M619	: Interruttore orientamento proiettori
M146	: A 031	M620	: Illuminazione posacenere
M147	: A 032	M621	: Interruttore ventola
M148	: Altoparlante porta anteriore destra	M622	: Illuminazione comandi riscaldatore
M149	: Interruttore automatico	M623	: Pulsante condizionatore aria
M150	: Massa carrozzeria	M624	: Accendisigari
M151	: Temporizzatore bloccaggio porte	M625	: Giunzione
M152	: Temporizzatore antenna automatica	M626	: Centralina E.C.C.S. (Modelli con motore KA24E)
M153	: Centralina preriscaldamento (Modelli con motore TD27T senza E.G.R)	M627	: Centralina preriscaldamento (Modelli con motore TD27T)
M158	: A 81	M628	: Luce cassetto portaguanti
M159	: A 82	M629	: Interruttore luce cassetto portaguanti
M160	: A 83 (Per modelli GX)	M630	: Motore ventilatore
M161	: A 84 (Eccetto modelli GX)	M631	: Resistenza
M162	: Relè luci antinebbia posteriori	M632	: Amplificatore controllo temperatura
M601	: Scatola fusibili	M633	: Per kit cablaggio condizionatore aria
M602	: Connettore diagnostico per CONSULT (Modelli con motore KA24E)		
M603	: Connettore di prova (Modelli con motore TD27T)		
M604	: Interruttore specchietto esterno		

# DISPOSIZIONE CABLAGGI

## Cablaggio Carrozzeria e Cablaggio Maiale

MODELLI A 3 PORTE



EL-110

# DISPOSIZIONE CABLAGGIO

## Cablaggio Carrozzeria e Cablaggio Telaio

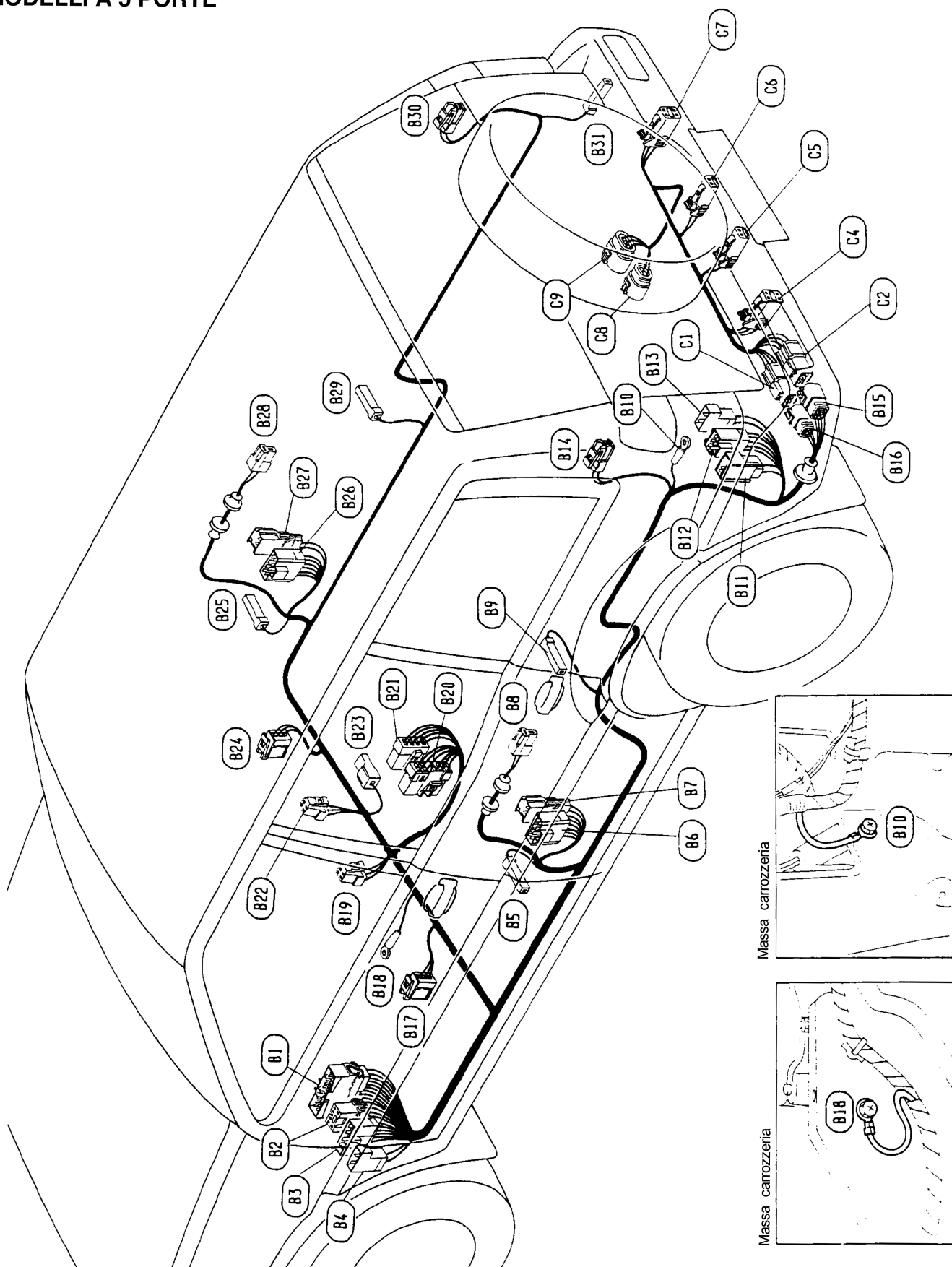
(Continuazione)

81	:	A	M158		C1	:	A	816
82	:	A	M159		C2	:	A	815
83	:	A	M160		C3	:	A	851 (Modelli STD con motore TD27T per Europa Meridionale)
84	:	A	M161		C4	:		Gruppo ottico posteriore sinistro
85	:			Interruttore porta anteriore sinistra	C5	:		Luce targa sinistra
88	:			Altoparlante posteriore sinistro	C6	:		Luce targa destra
810	:			Massa carrozzeria	C7	:		Gruppo ottico posteriore destro
811	:	A	T1		C8	:		Pompa carburante (Modelli con motore KA24E)
812	:	A	T2	(Modelli GX e STD equipaggiati con luce stop superiore)	C9	:		Indicatore livello serbatoio carburante
813	:	A	T3	(Modelli STD non equipaggiati con luce stop superiore)				
814	:			Luce stop sinistra				
815	:	A	C2					
816	:	A	C1					
817	:			Sedile riscaldato sinistro				
818	:			Massa carrozzeria				
819	:			Interruttore sedile riscaldato sinistro				
821	:			Interruttore alzacristalli elettrico				
822	:			Interruttore sedile riscaldato destro				
823	:			Sedile riscaldato destro				
824	:			Interruttore porta anteriore destra				
825	:			Altoparlante posteriore destro				
828	:			Luce stop destra				
830	:			Interruttore luce bagagliaio				
831	:			Interruttore luce bagagliaio				
851	:	A	C3	(Modelli STD con motore TD27T per Europa Meridionale)				
852	:			Luce bagagliaio				

## DISPOSIZIONE CABLAGGI

### Cablaggio Carrozzeria e Cablaggio Maio (Continuazione)

MODELLI A 5 PORTE





# DISPOSIZIONE CABLAGGIO

## Cablaggio Carrozzeria e Cablaggio Telaio

(Continuazione)

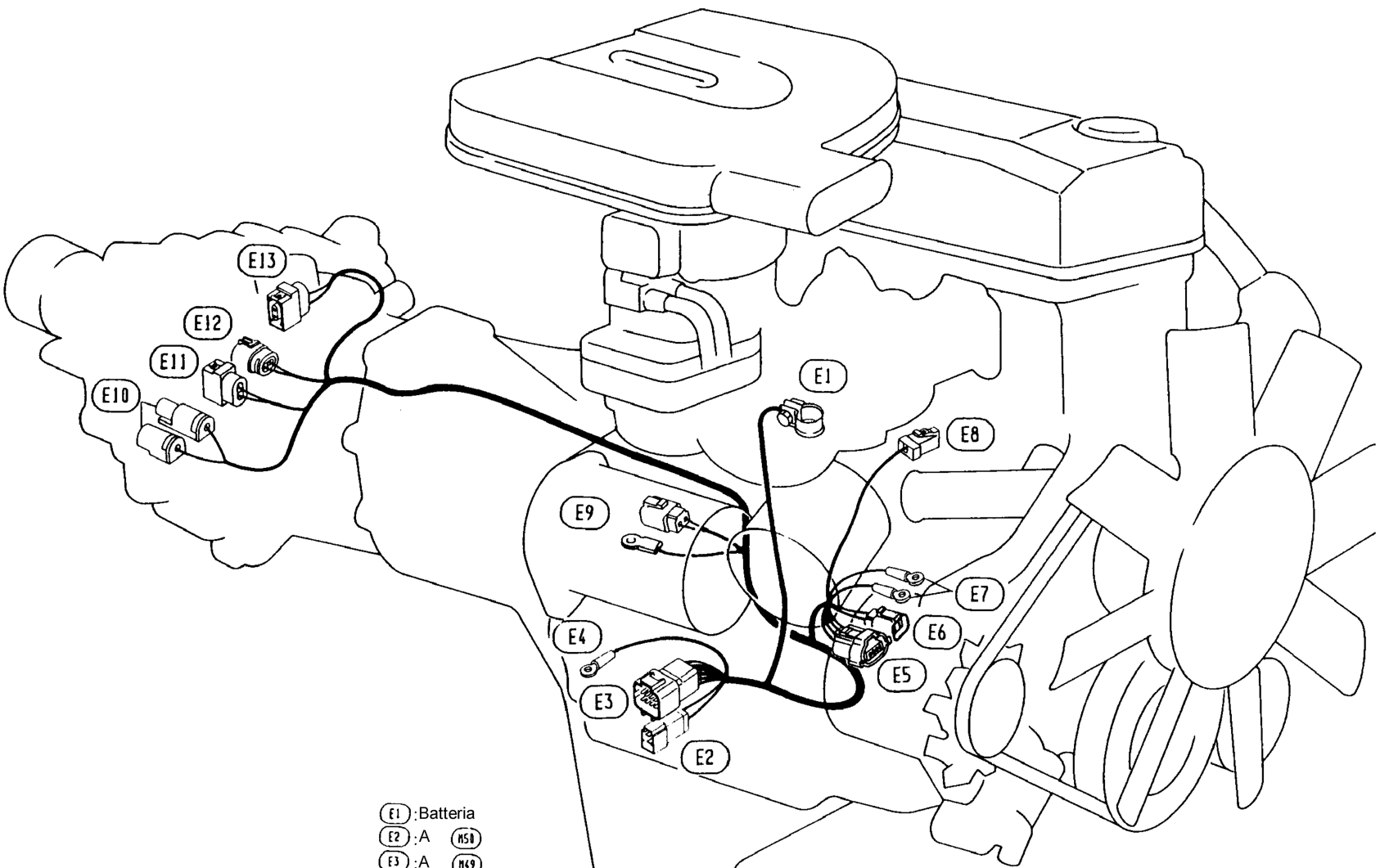
- (C1) : A (B16)
- (C2) : A (B15)
- (C4) : Gruppo ottico posteriore sinistro
- (C5) : Luce targa sinistra
- (C6) : Luce targa destra
- (C7) : Gruppo ottico posteriore destro
- (C8) : Pompa carburante (Modelli con motore KA24E)
- (C9) : Indicatore livello serbatoio carburante

- (B1) : A (M158)
- (B2) : A (M159)
- (B3) : A (M160) (Modelli GX)
- (B4) : A (M161) (Modelli STD)
- (B5) : Interruttore porta anteriore sinistra
- (B6) : A (D51)
- (B7) : A (D52)
- (B8) : Altoparlante posteriore sinistro
- (B9) : Interruttore porta posteriore sinistra
- (B10) : Massa carrozzeria
- (B11) : A (T1)
- (B12) : A (T2) (Modelli GX e STD equipaggiati con luce stop superiore)
- (B13) : A (T3) (Modelli STD non equipaggiati con luce stop superiore)
- (B14) : Luce stopo sinistra
- (B15) : A (C2)
- (B16) : A (C1)
- (B17) : Sedile riscaldato sinistro
- (B18) : Massa carrozzeria
- (B19) : Interruttore sedile riscaldato sinistro
- (B20) : Interruttore principale alzacristalli elettrico
- (B21) : Interruttore principale alzacristalli elettrico
- (B22) : Interruttore sedile riscaldato destro
- (B23) : Interruttore freno di stazionamento
- (B24) : Sedile riscaldato destro
- (B25) : Interruttore porta anteriore destra
- (B26) : A (071)
- (B27) : A (072)
- (B28) : Altoparlante posteriore sinistro
- (B29) : Interruttore porta posteriore sinistra
- (B30) : Luce stop destra
- (B31) : Interruttore luce bagagliaio

## DISPOSIZIONE CABLAGGI

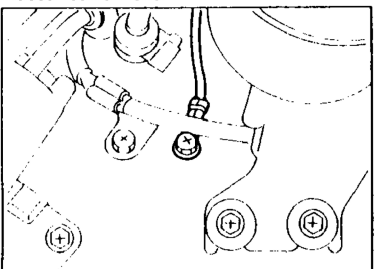
MODELLI CON MOTORE KA24E

### Cablaggio Motore



- (E1) :Batteria
- (E2) :A (M50)
- (E3) :A (M49)
- (E4) :Massa carrozzeria
- (E5) :Alternatore (Per Europa Settentrionale)
- (E6) :Alternatore (Eccetto per Europa Settentrionale)
- (E7) :Alternatore
- (E8) :Pressostato olio
- (E9) :Motorino d'avviamento
- (E10) :Interruttore ripartitore
- (E11) :Interruttore folle
- (E12) :Interruttore luce retromarcia
- (E13) :Interruttore 5<sup>a</sup> marcia

Massa carrozzeria

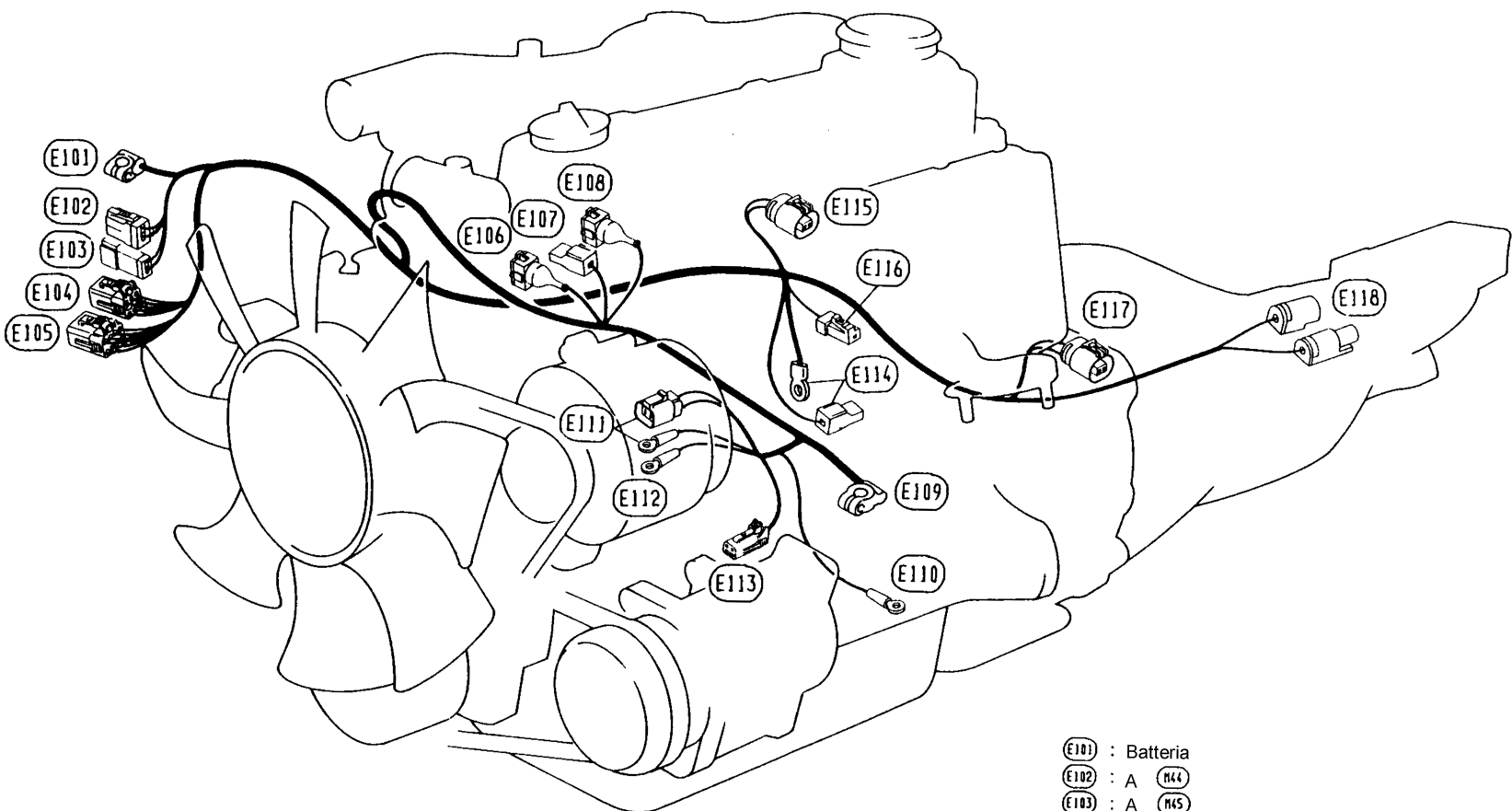


VELO14

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## DISPOSIZIONE CABLAGGI

### MODELLI CON MOTORE TD27T Cablaggio Motore (Continuazione)

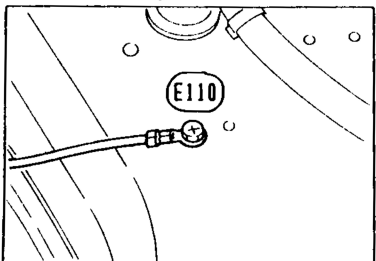


- (E101) : Batteria
- (E102) : A (M44)
- (E103) : A (M45)
- (E104) : A (M69)
- (E105) : A (M70)
- (E106) : Sensore temperatura acqua
- (E107) : Trasmettitore di temperatura
- (E108) : Sensore temperatura acqua (Sistema controllo E.G.R.)
- (E109) : Batteria (Per Europa Settentrionale)
- (E110) : Massa carrozzeria (Eccetto per Europa Settentrionale)
- (E111) : Alternatore
- (E112) : Alternatore (Eccetto per Europa Settentrionale)
- (E113) : Compressore (Condizionatore aria )
- (E114) : Motorino d'avviamento
- (E115) : Pompa iniezione
- (E116) : Pressostato olio
- (E117) : Interruttore luce retromarcia
- (E118) : Interruttore 4WD (Ripartitore)

YEL015

EL-115

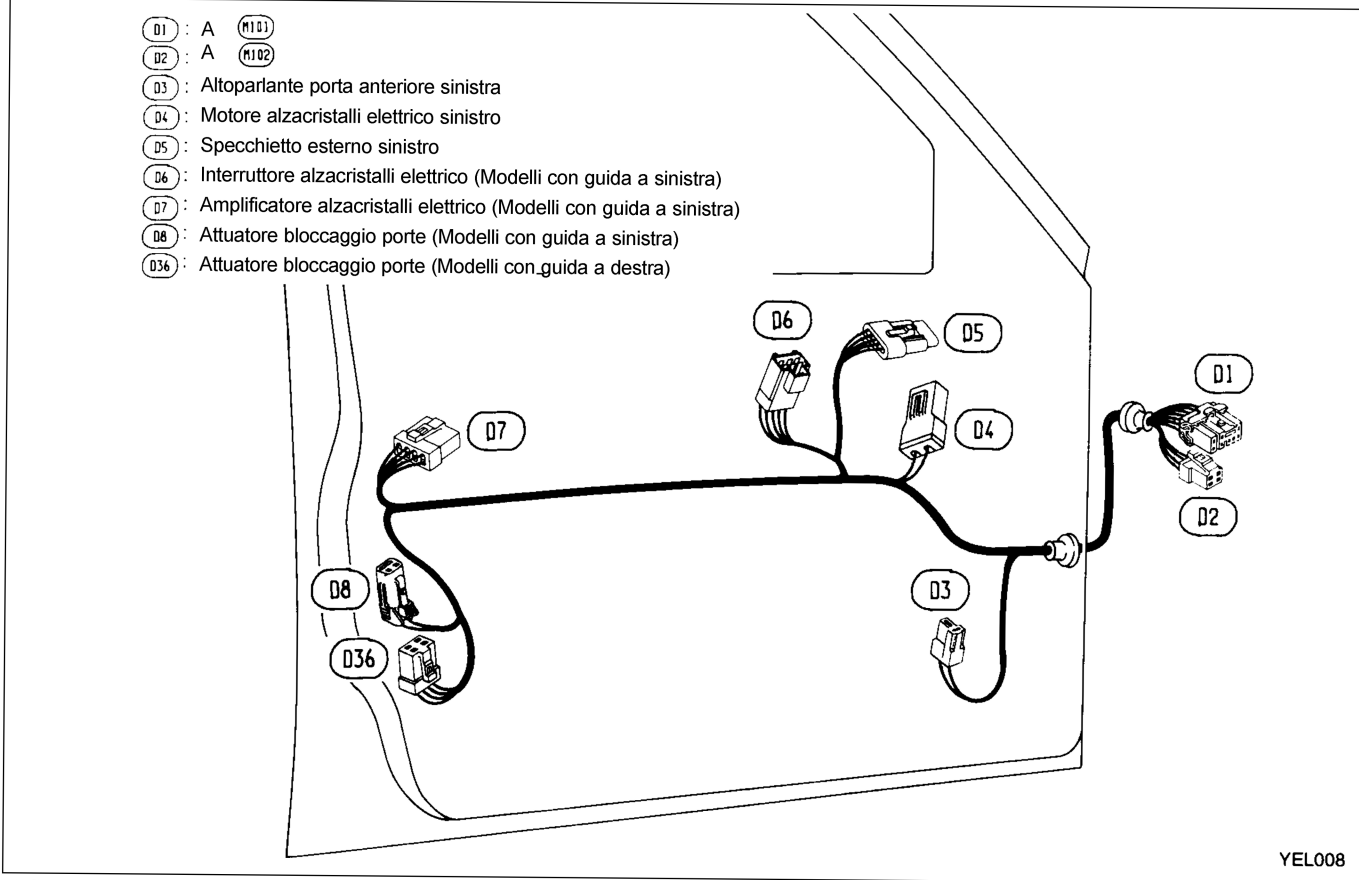
Massa carrozzeria



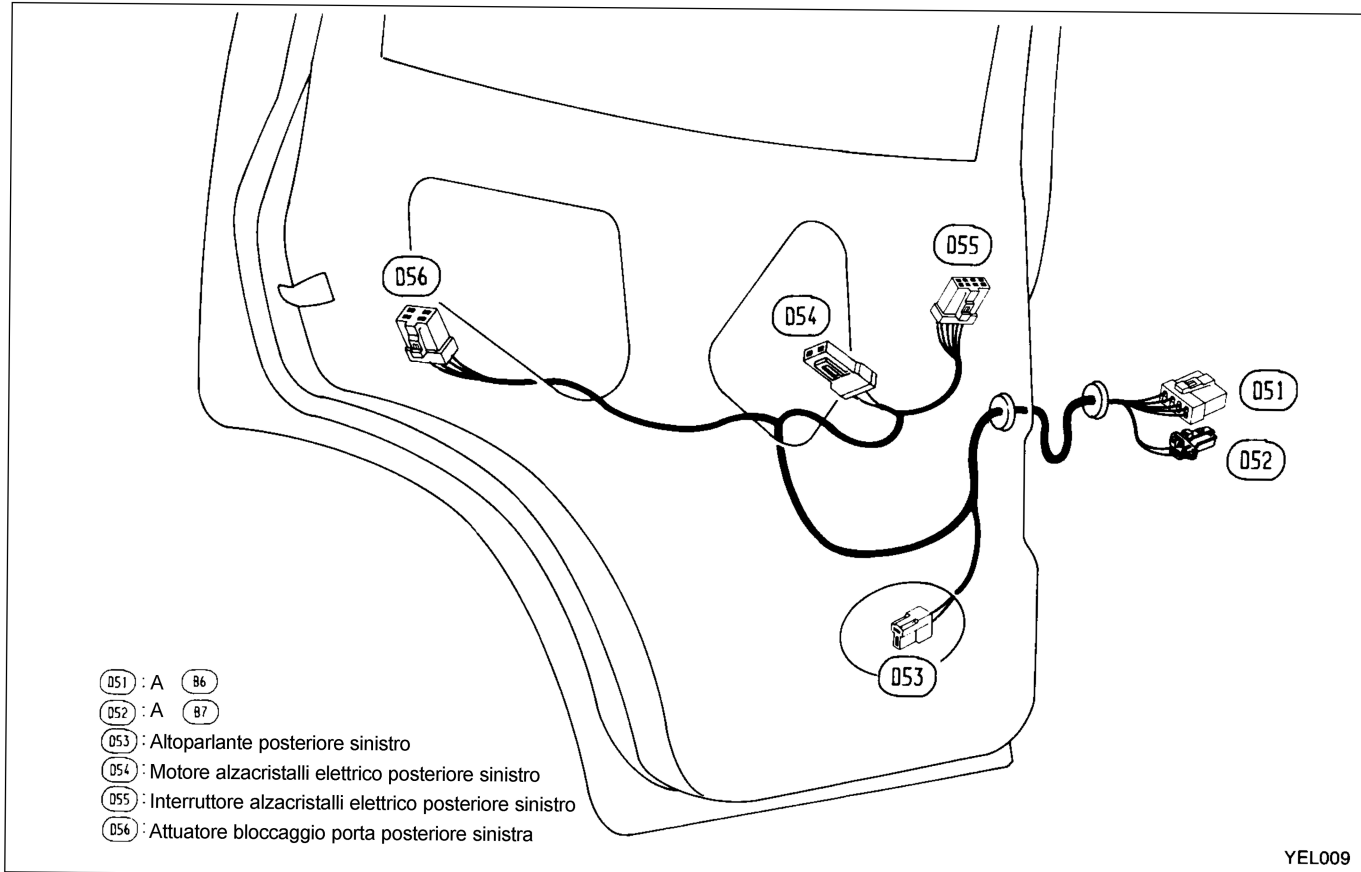
# DISPOSIZIONE CABLAGGI

## Cablaggio Porte (Lato sinistro)

### PORTE ANTERIORI



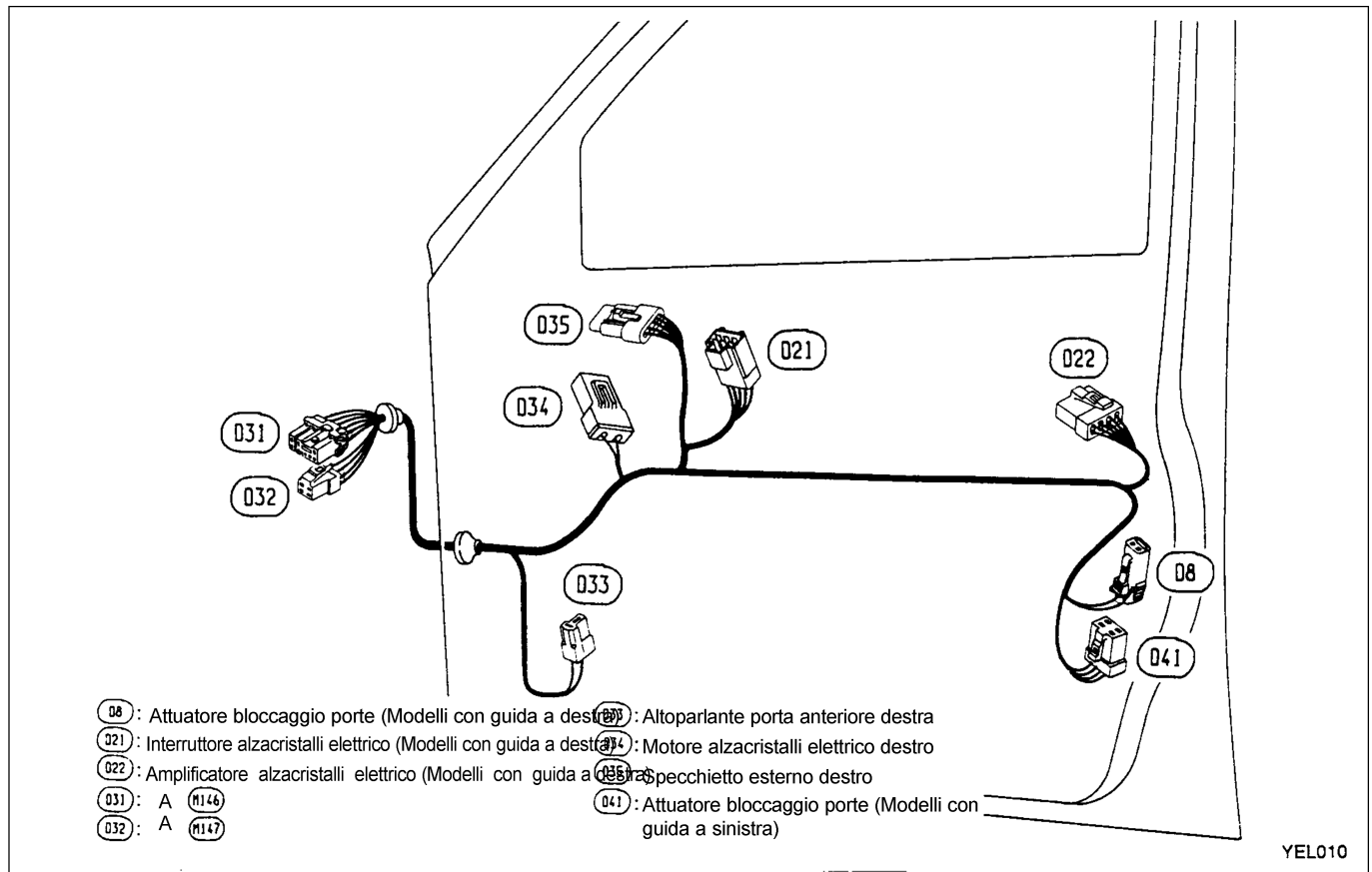
### PORTE POSTERIORI



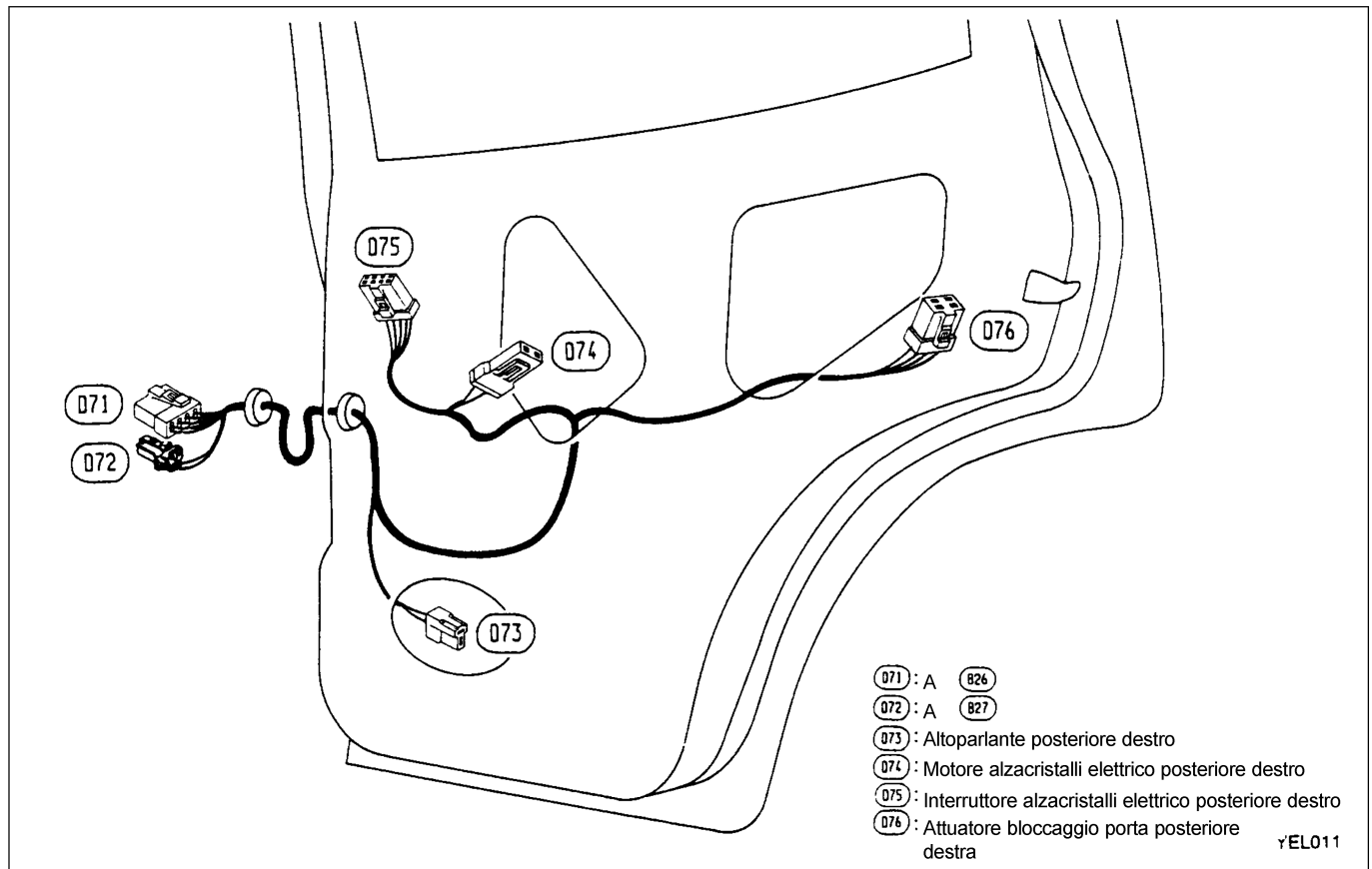
# DISPOSIZIONE CABLAGGI

## Cablaggio Porte (Lato destro)

### PORTE ANTERIORI

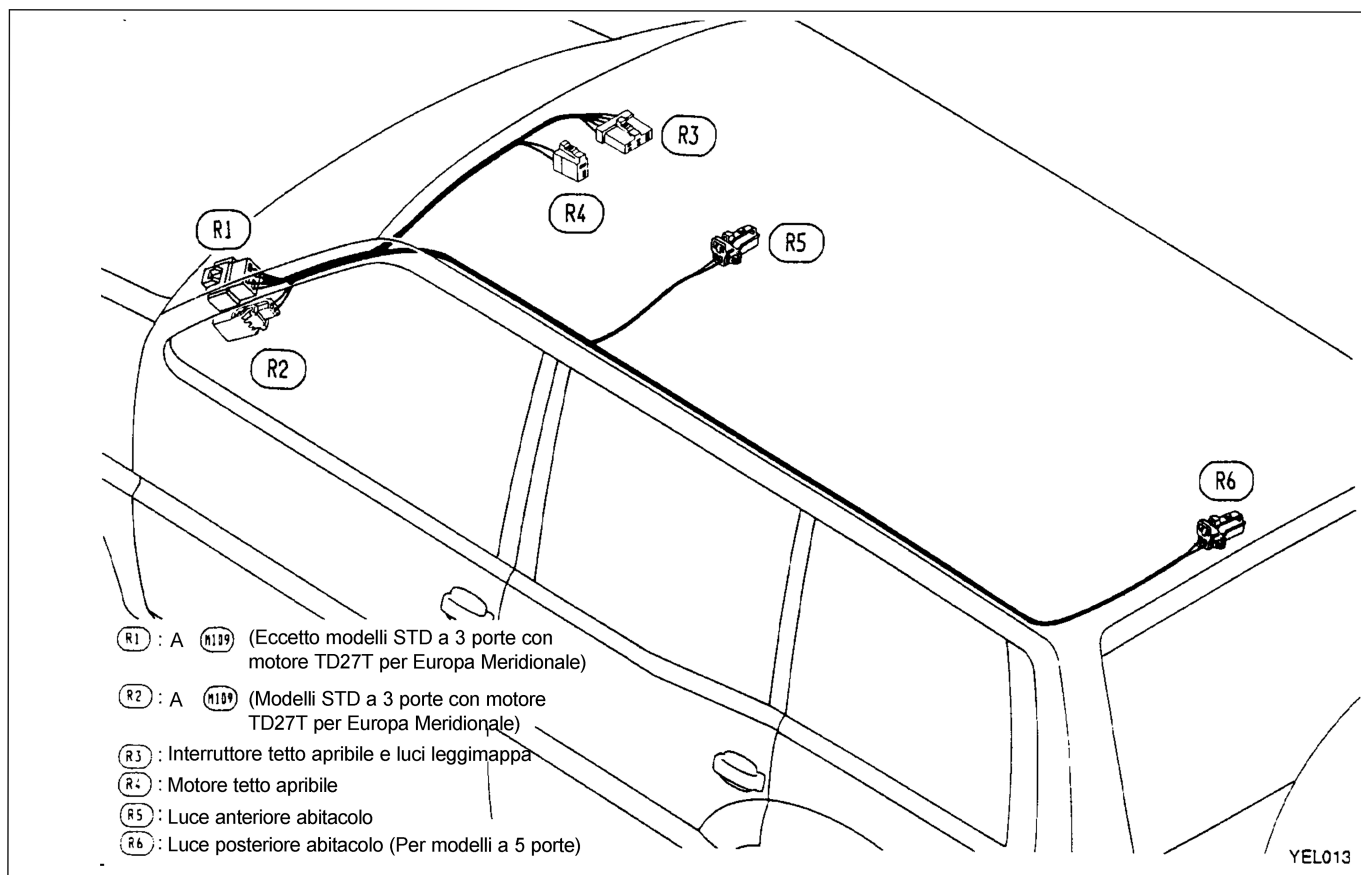


### PORTE POSTERIORI



## DISPOSIZIONE CABLAGGI

### Cablaggio Luci Abitacolo



### Cablaggio Portellone

