

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

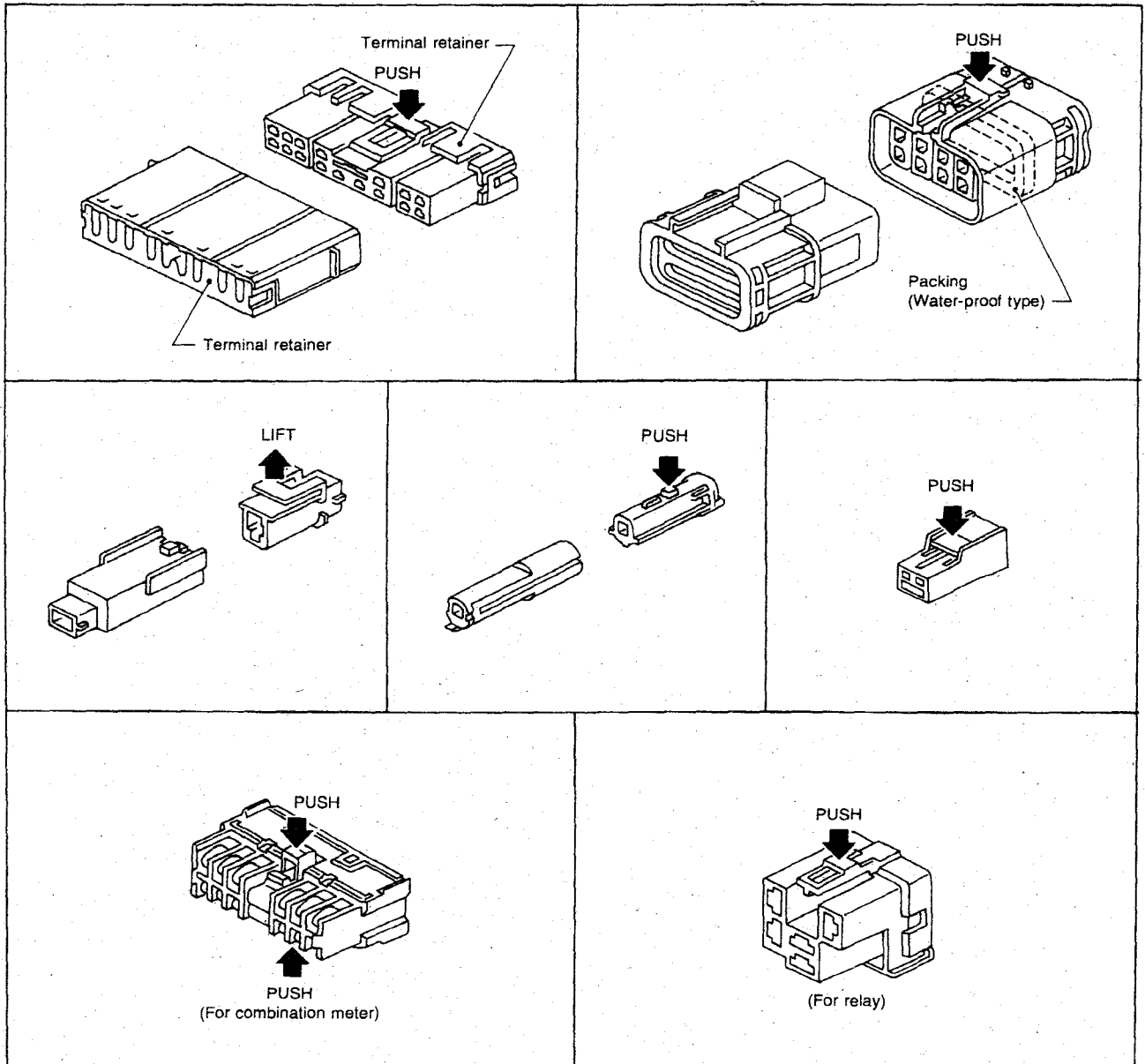
HARNESS CONNECTOR

- 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]



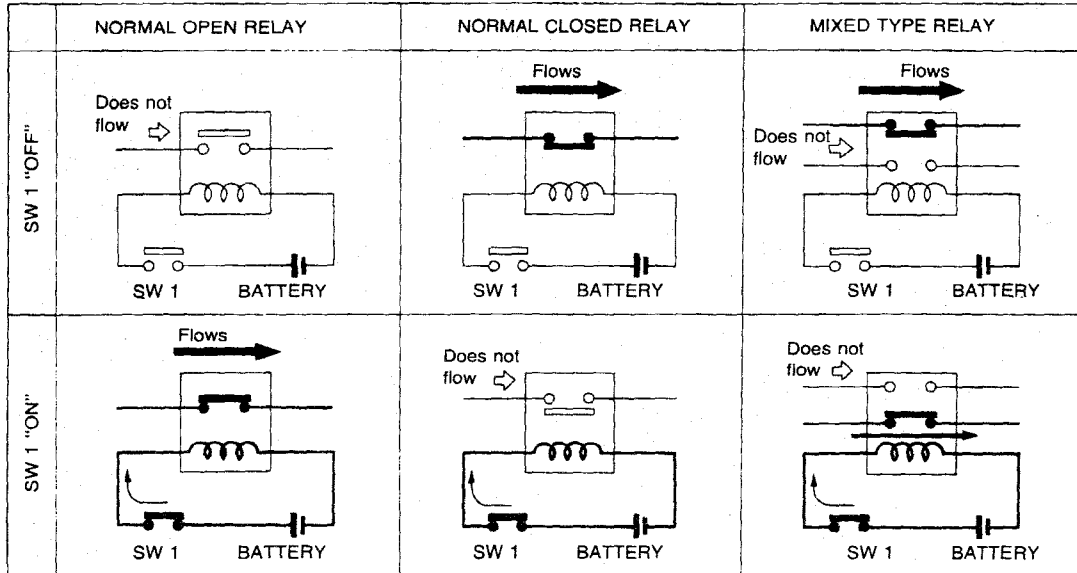
SEL769D

STANDARDIZED RELAYS

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

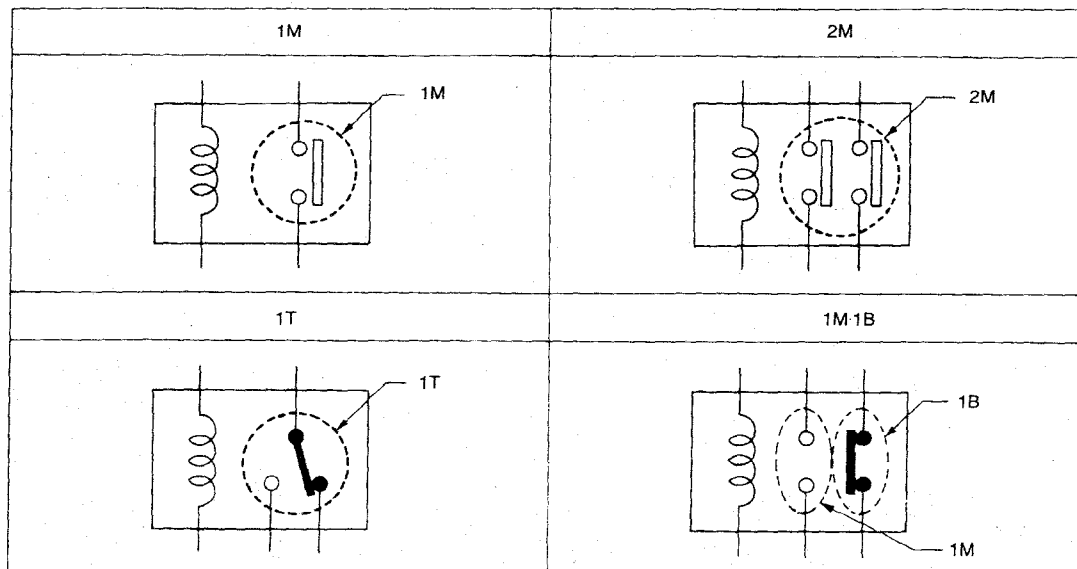
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPES OF STANDARDIZED RELAYS

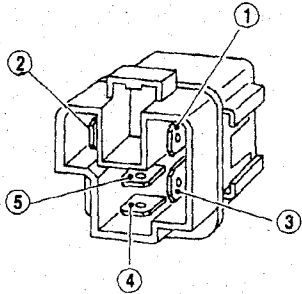
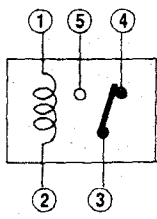
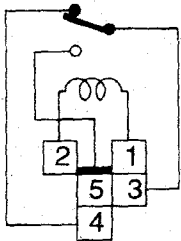
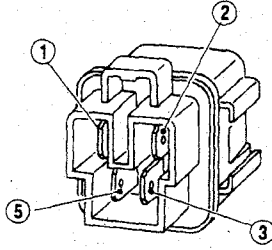
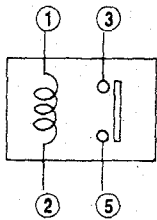
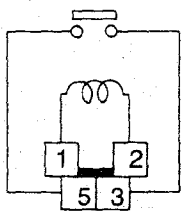
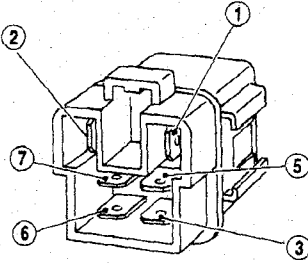
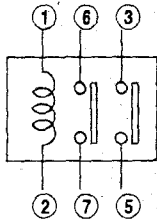
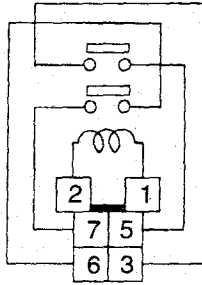
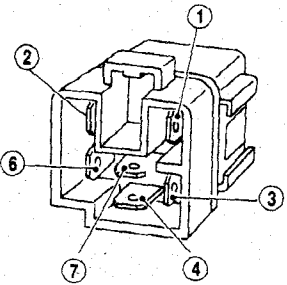
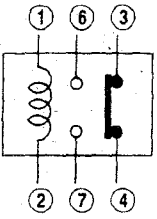
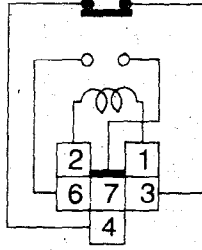
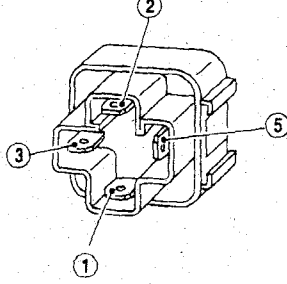
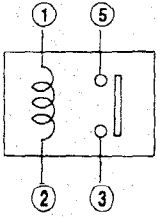
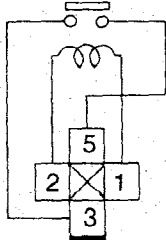
1M 1 Make 2M 2 Make
 1T 1 Transfer 1M±1B..... 1 Make 1 Break



SEL882H

STANDARDIZED RELAYS

Description (Cont'd)

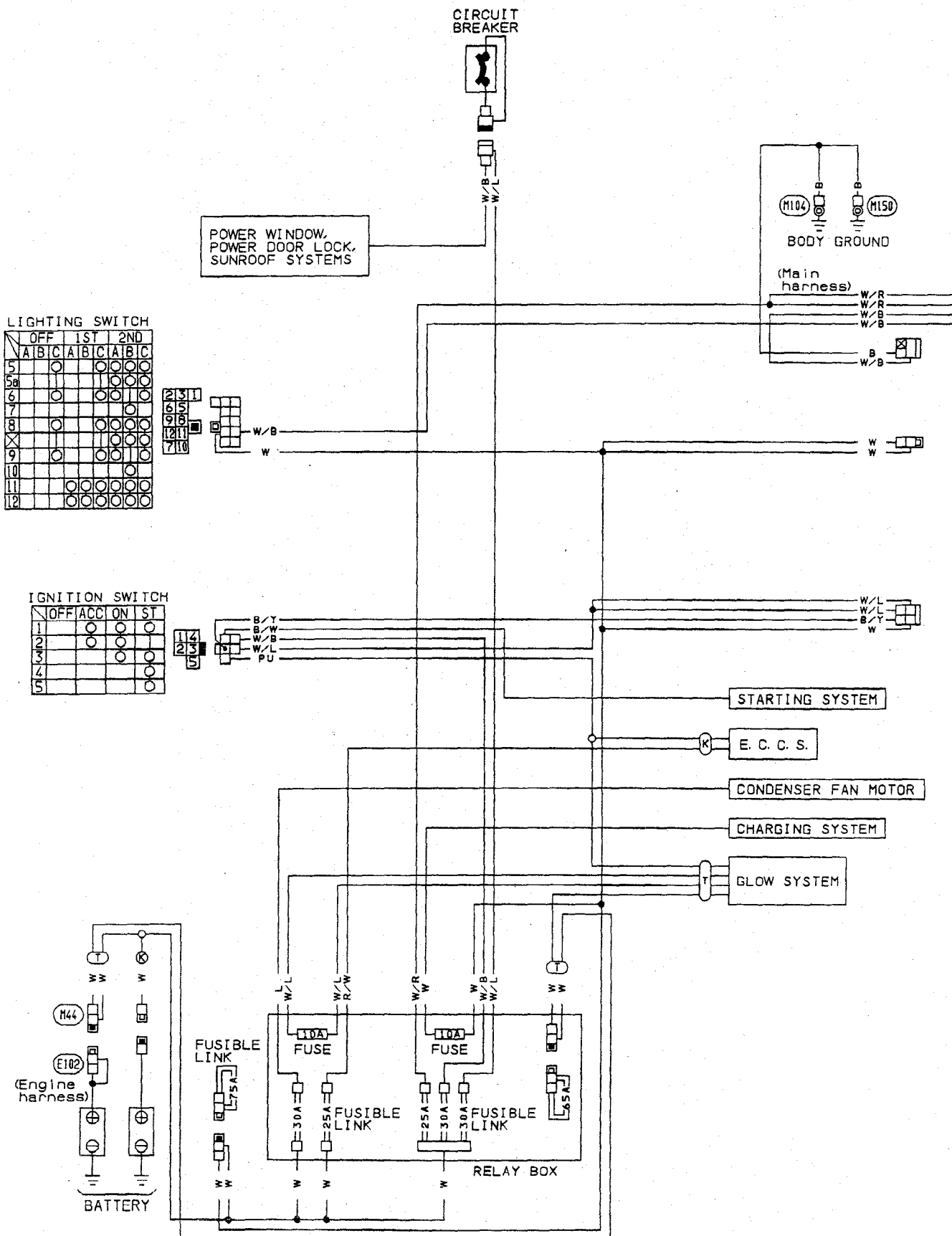
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
1M				BLUE or GREEN
2M				BROWN
1M-1B				GRAY
1M				BLACK

MEL202B

POWER SUPPLY ROUTING

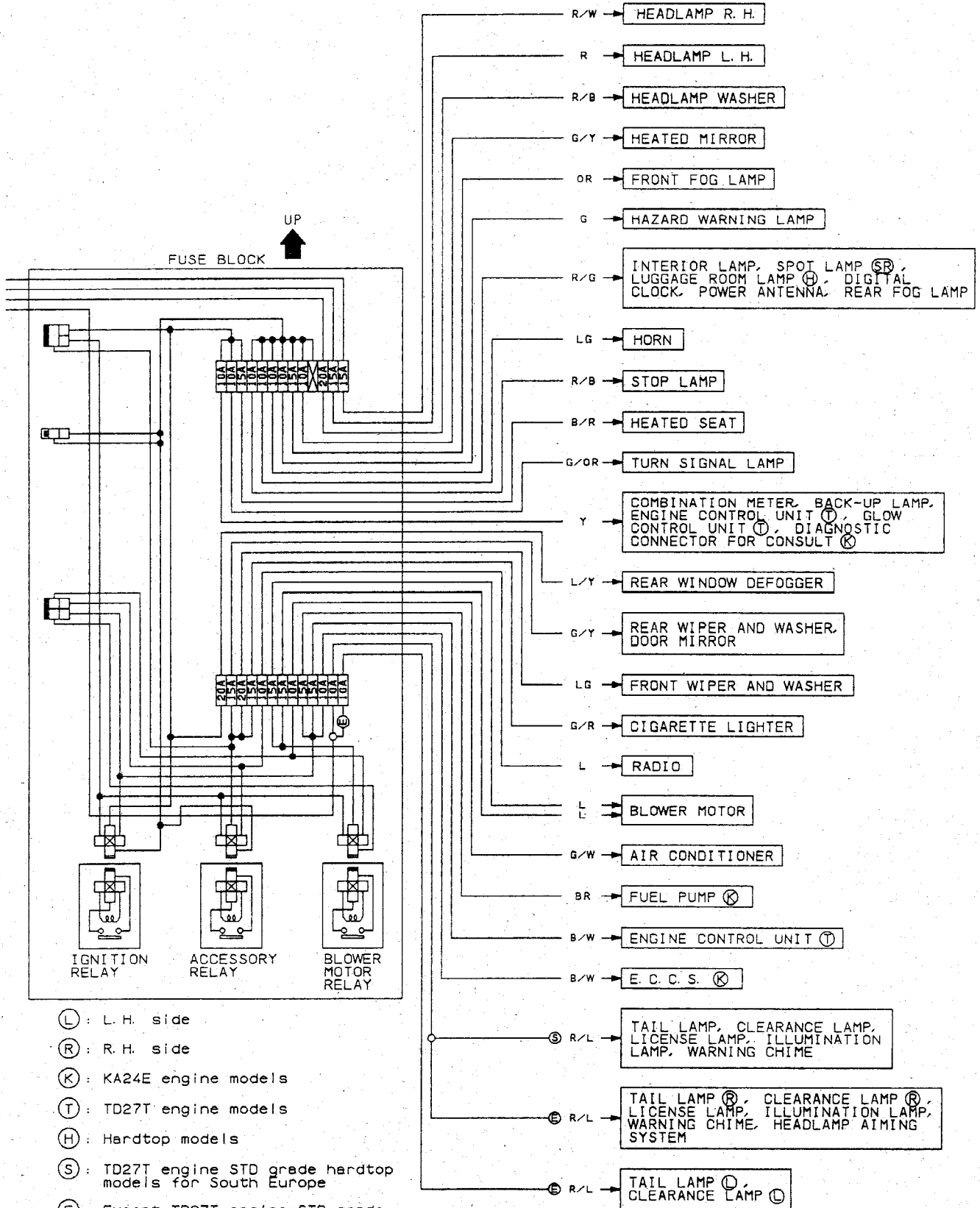
Wiring Diagram

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



POWER SUPPLY ROUTING

Wiring Diagram (Cont'd)

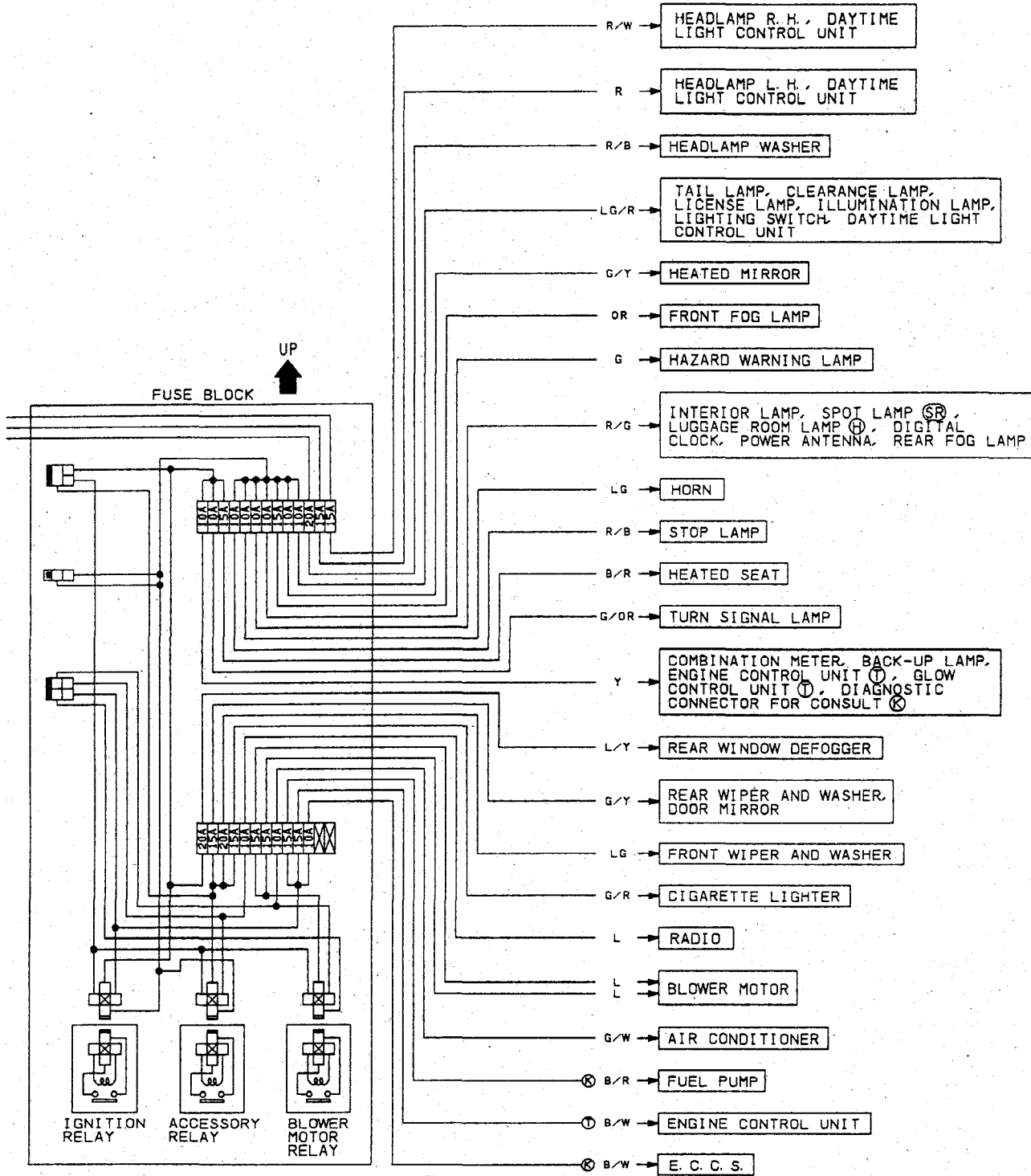


Wiring Diagram (Cont'd)

[illegible]

POWER SUPPLY ROUTING

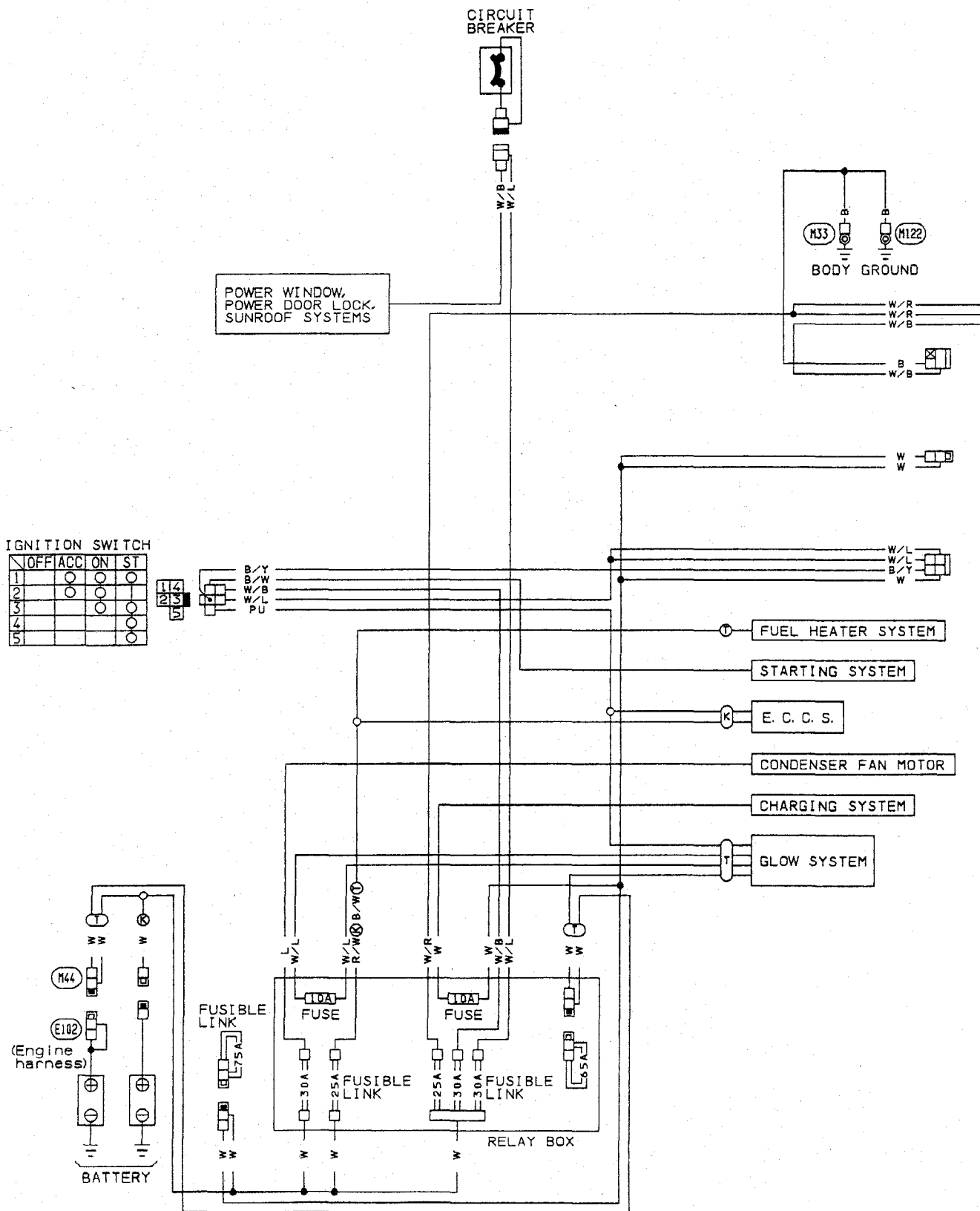
Wiring Diagram (Cont'd)



- (K) : KA24E engine models
- (T) : T027T engine models
- (SR) : With sunroof models
- (H) : Hardtop models

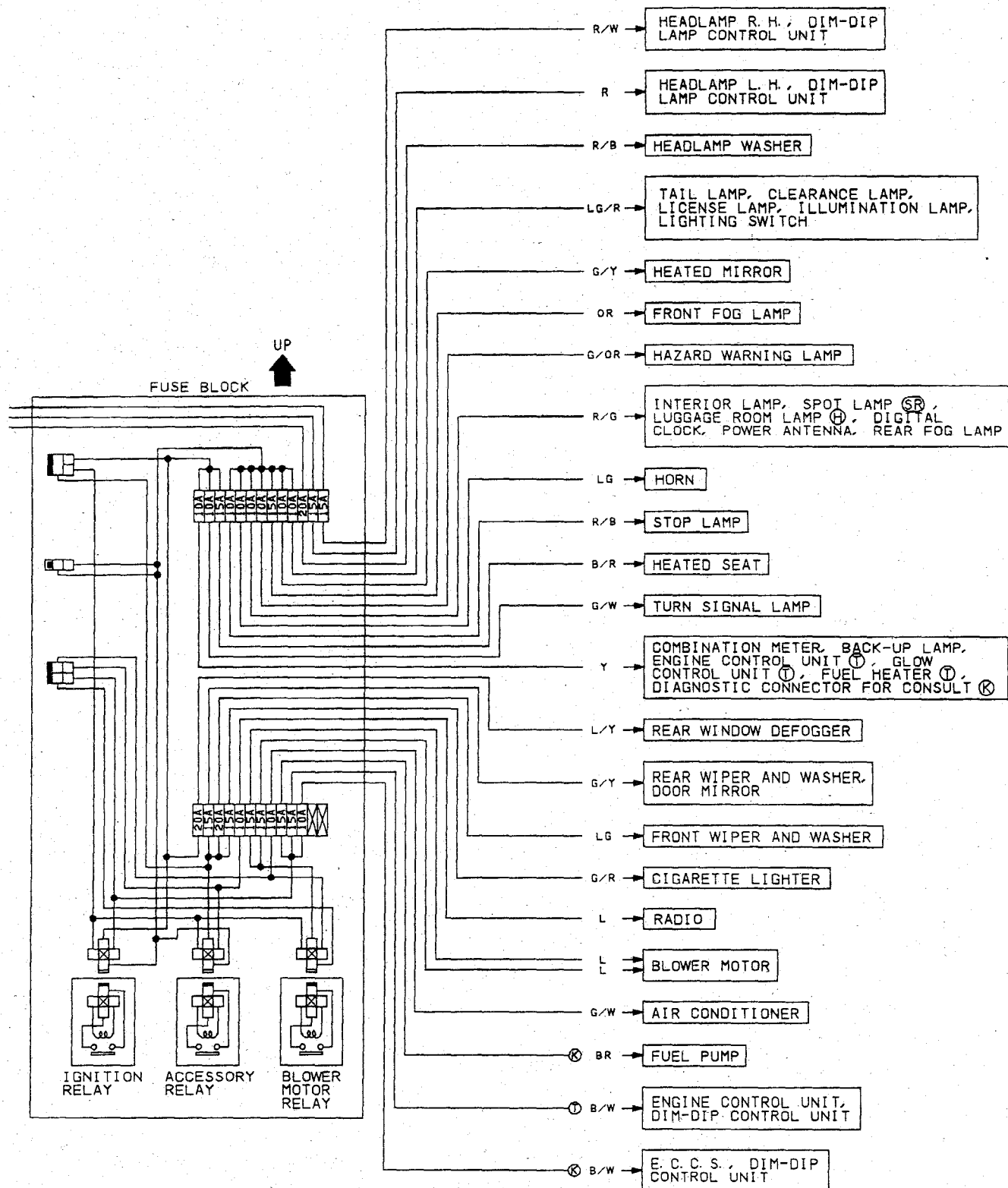
Wiring Diagram (Cont'd)

R.H.D. MODELS

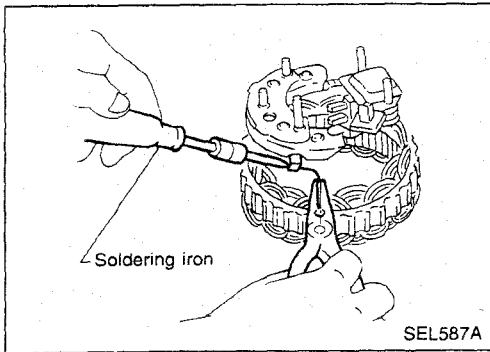


POWER SUPPLY ROUTING

Wiring Diagram (Cont'd)



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

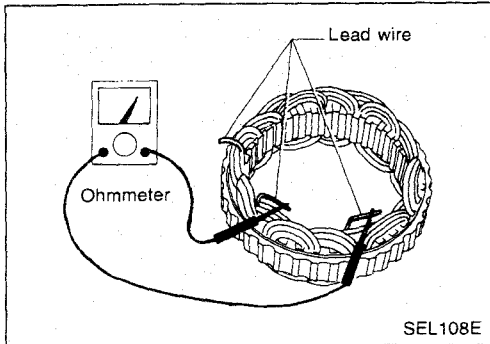


Stator Check

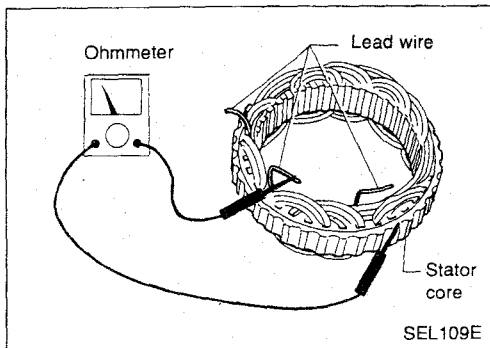
To test the stator or diode, separate them by unsoldering the connecting wires.

CAUTION:

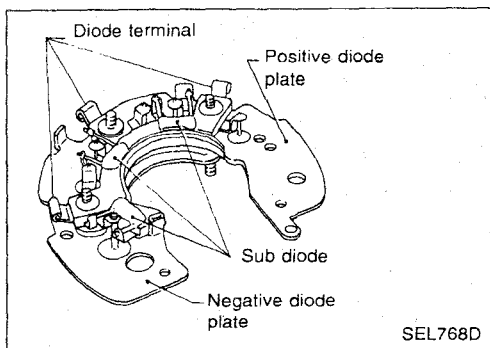
Use only as much heat as required to melt solder. Otherwise, diodes will be damaged by excessive heat.



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



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



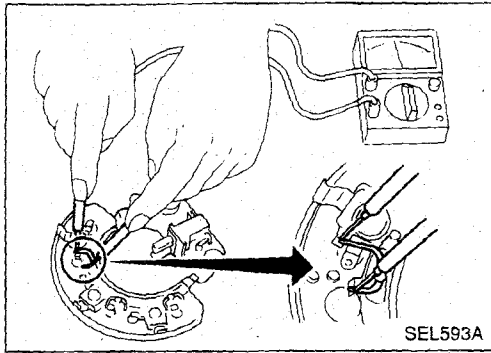
MAIN DIODES

- 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)



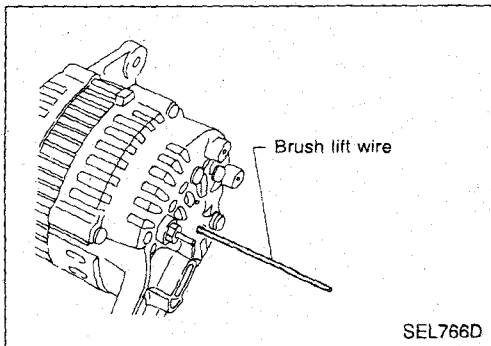
SUB-DIODES

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

Assembly

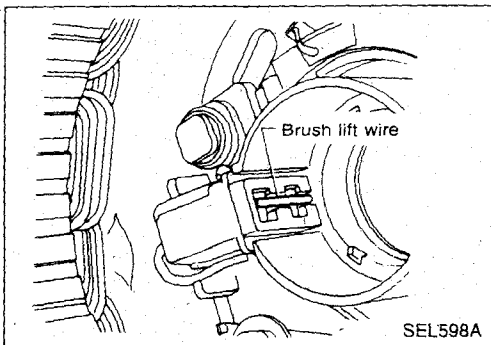
Carefully observe the following instructions.

- 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

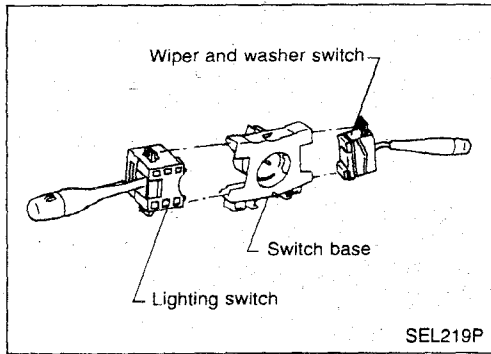
Type		LR170-407T	9.120.334.632	0.123.115.008
		HITACHI	BOSCH	
Engine		TD27T		KA24E
		North Europe	Rest of Europe	
Nominal rating	V-A	12-70	12-60	12-65
Ground polarity		Negative		
Minimum revolution under no-load (When 13.5 volts is applied)	rpm	1,000	1,050	
Hot output current	A/rpm	23/1,300	17.5/1,300	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		

NOTE

Check

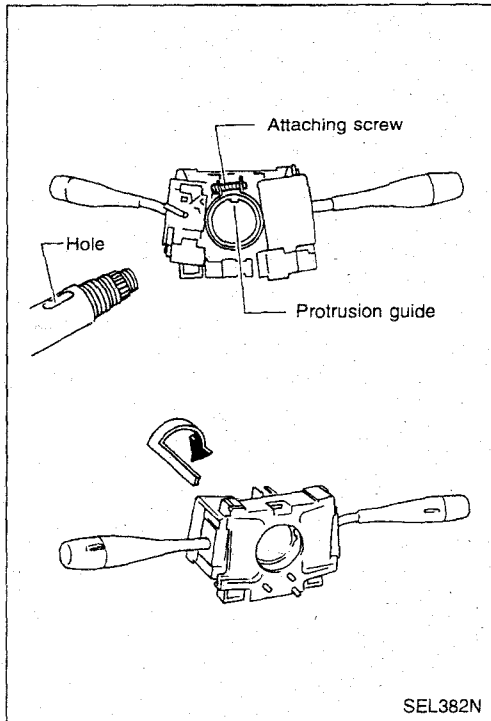


COMBINATION SWITCH



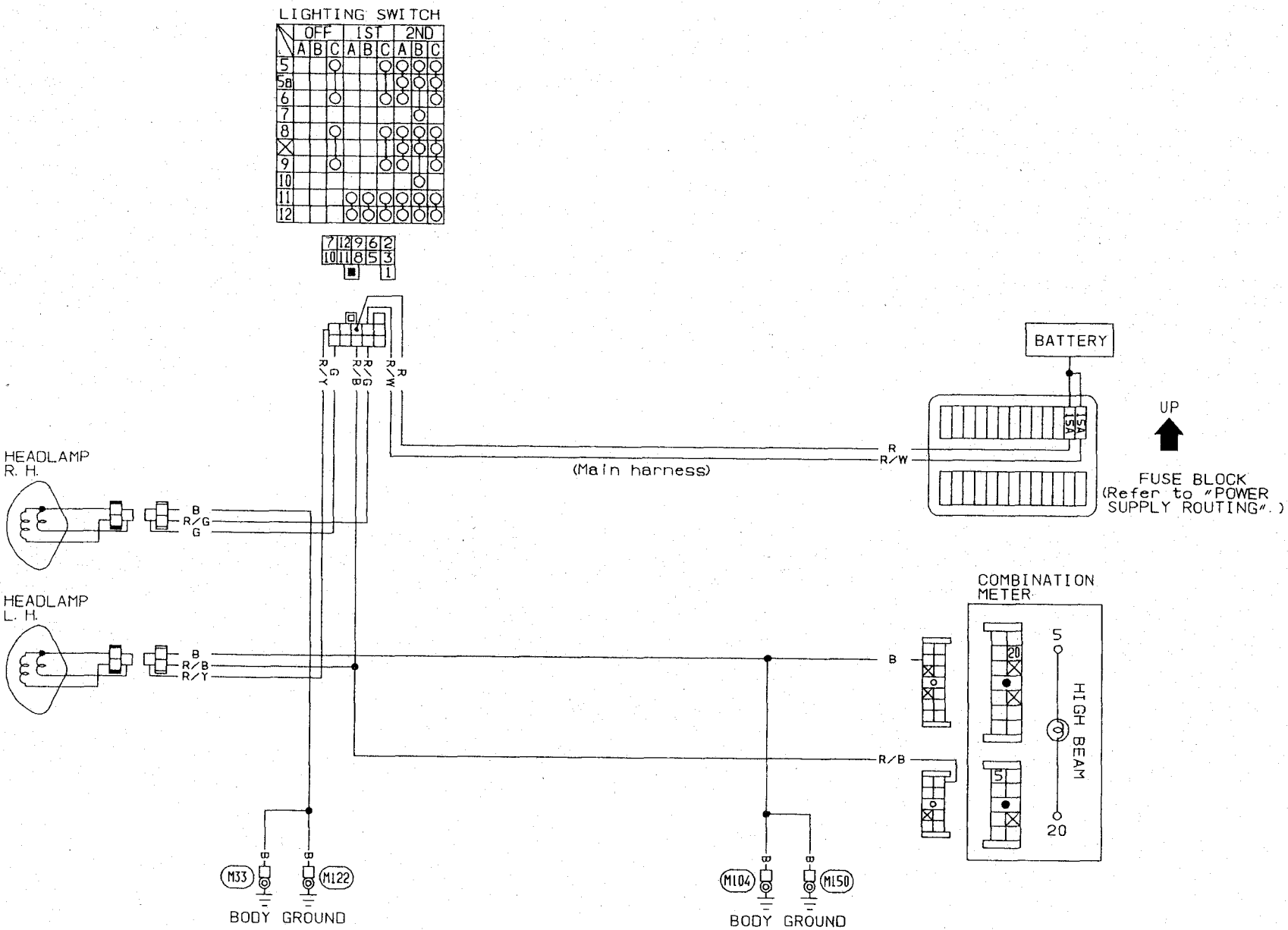
Replacement

- 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



EL-40

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.

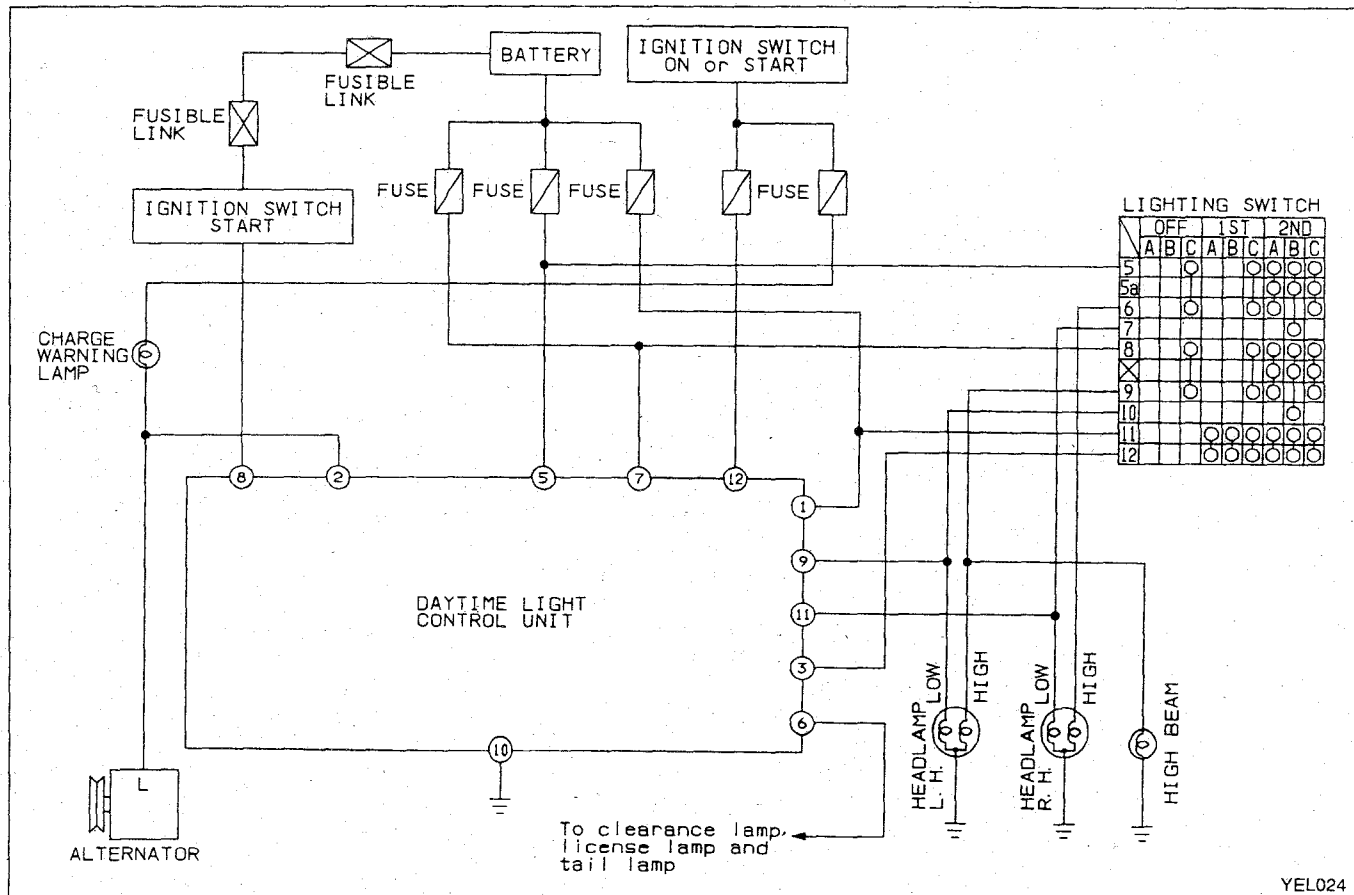
Engine		With engine stopped									With engine running								
Lighting switch		OFF			1ST			2ND			OFF			1ST			2ND		
		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Headlamp	High beam	X	X	O	X	X	O	O	X	O	X	X	O	X	X	O	O	X	O
	Low beam	X	X	X	X	X	X	X	O	X	O	O	O	X	X	X	X	O	X
Clearance and tail lamp		X	X	X	O	O	O	O	O	O	O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

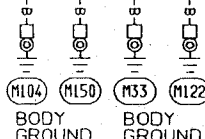
X: Lamp "OFF"

■: Added functions

Schematic



YEL024



HEADLAMP — Dim-dip Lamp System —

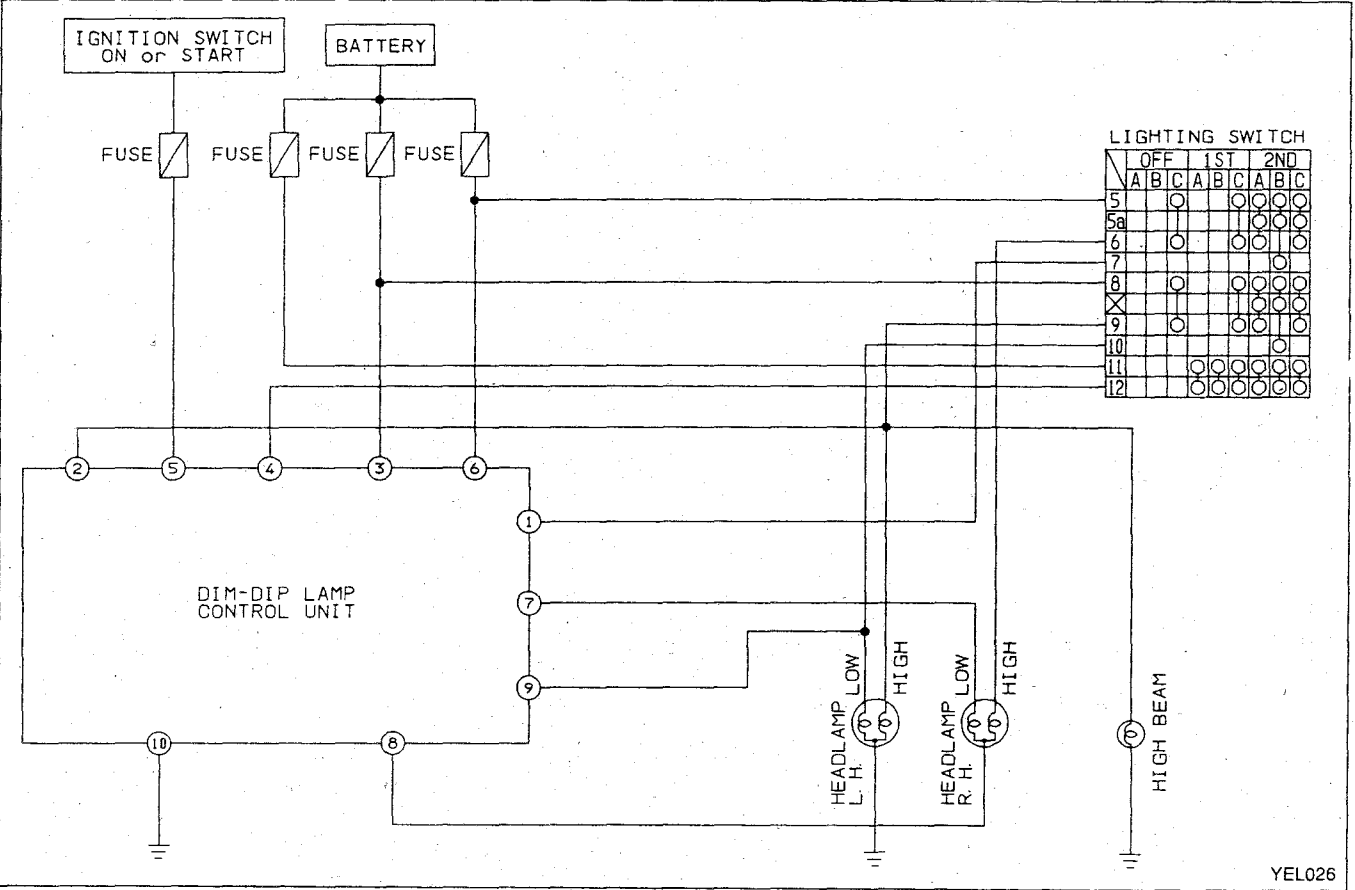
Operation

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

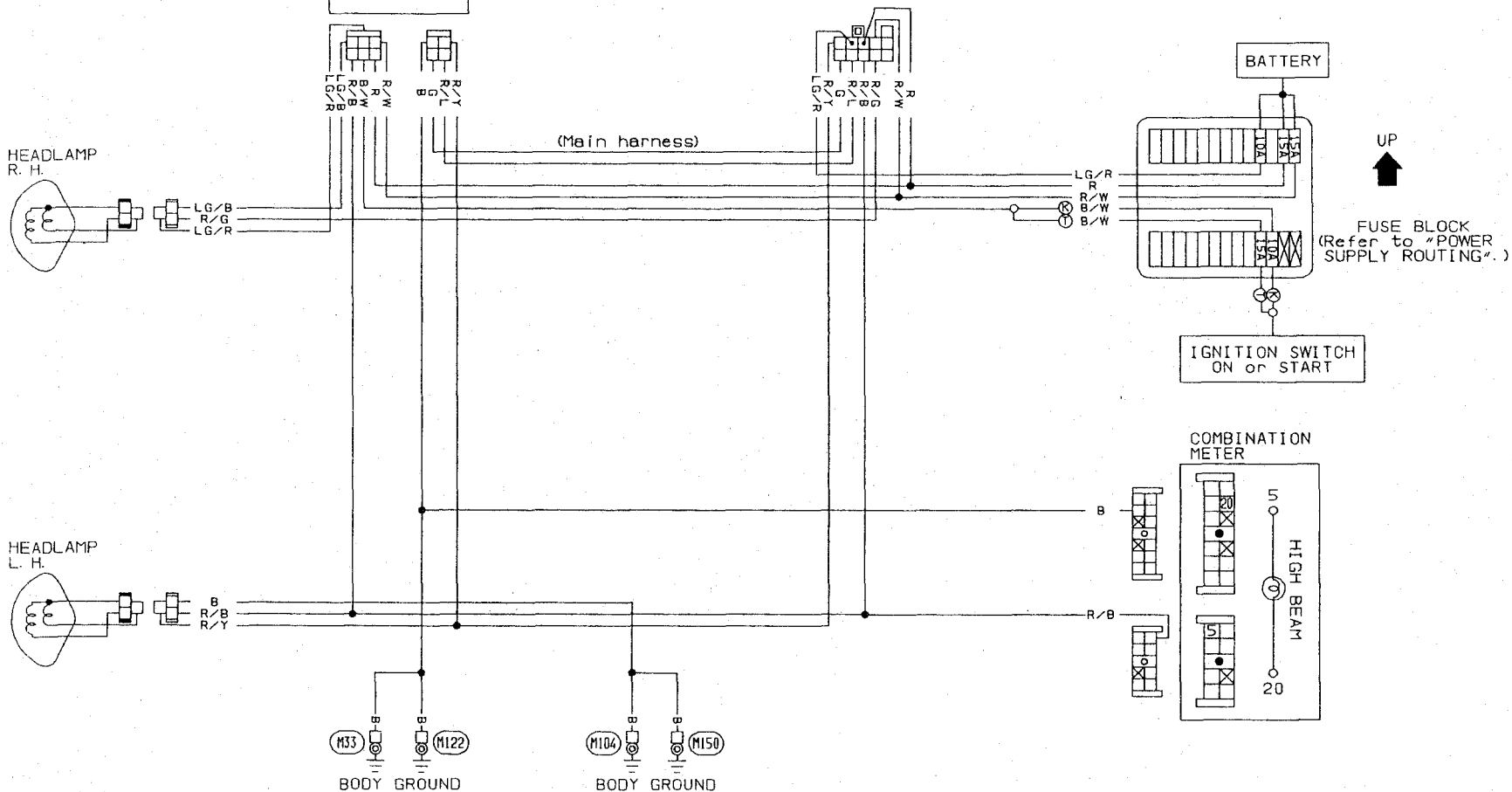
LIGHTING SWITCH

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

7	12	9	6	2
10	11	8	5	3
				1

DIM-DIP LAMP CONTROL UNIT

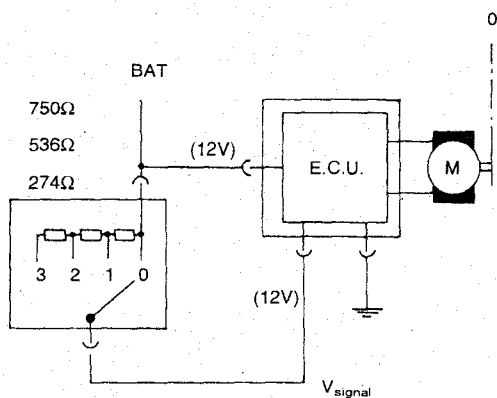
2	5	3
8	7	6
1	4	
10	9	



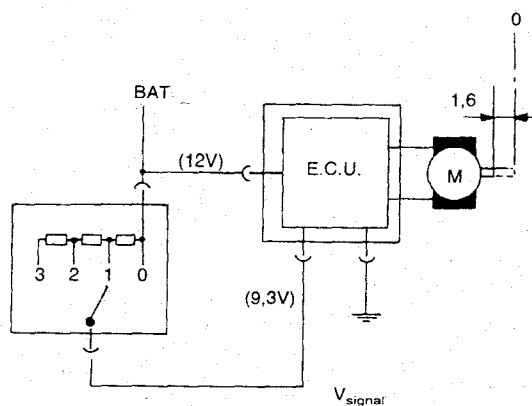
Description

- 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_{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.

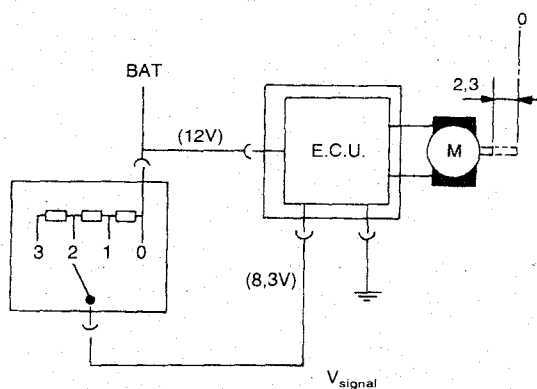
Position "0"



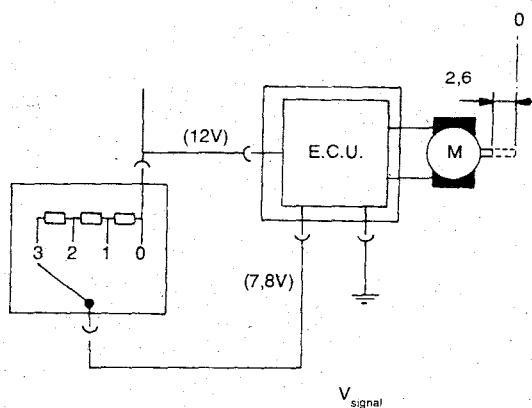
Position "1"



Position "2"

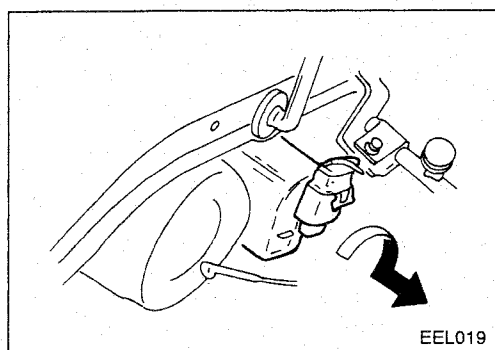
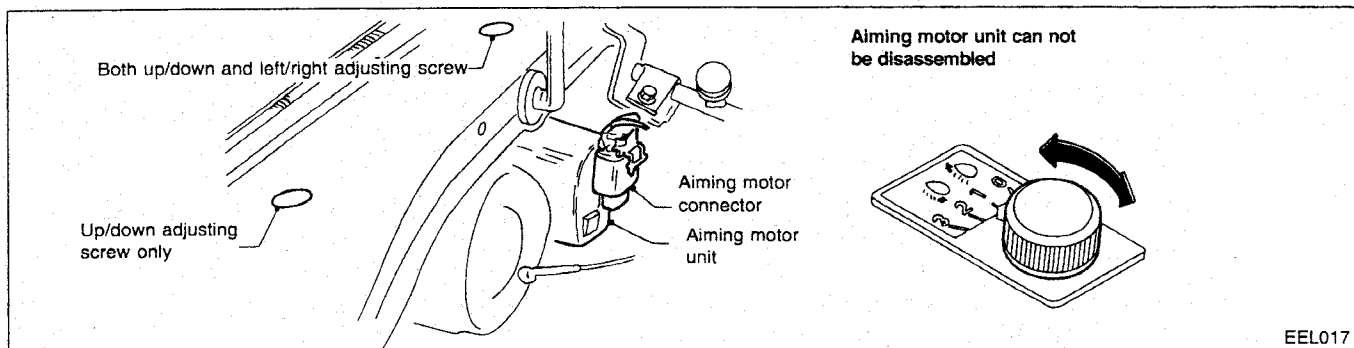


Position "3"



HEADLAMP — Headlamp Aiming Control —

Description (Cont'd)



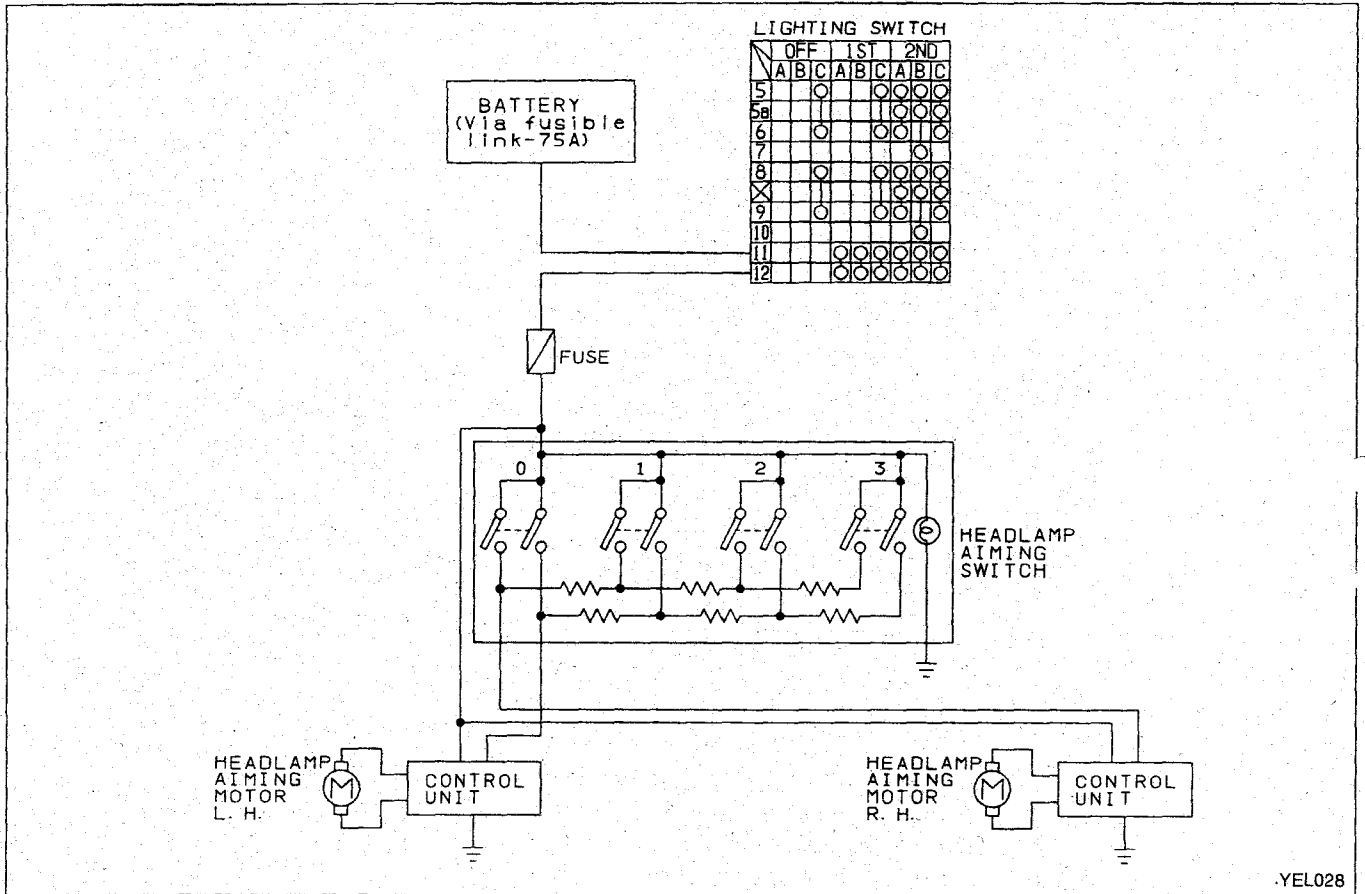
Replacing Headlamp Aiming Actuator

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.

HEADLAMP — Headlamp Aiming Control —

Schematic



HEADLAMP — Headlamp Aiming Control —

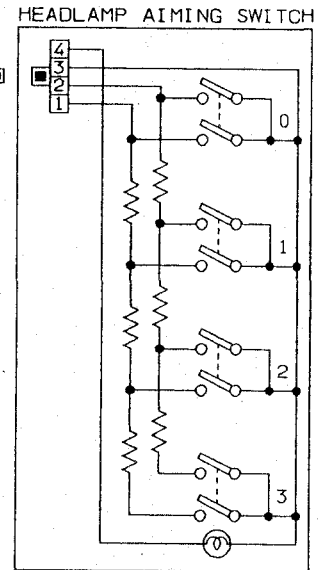
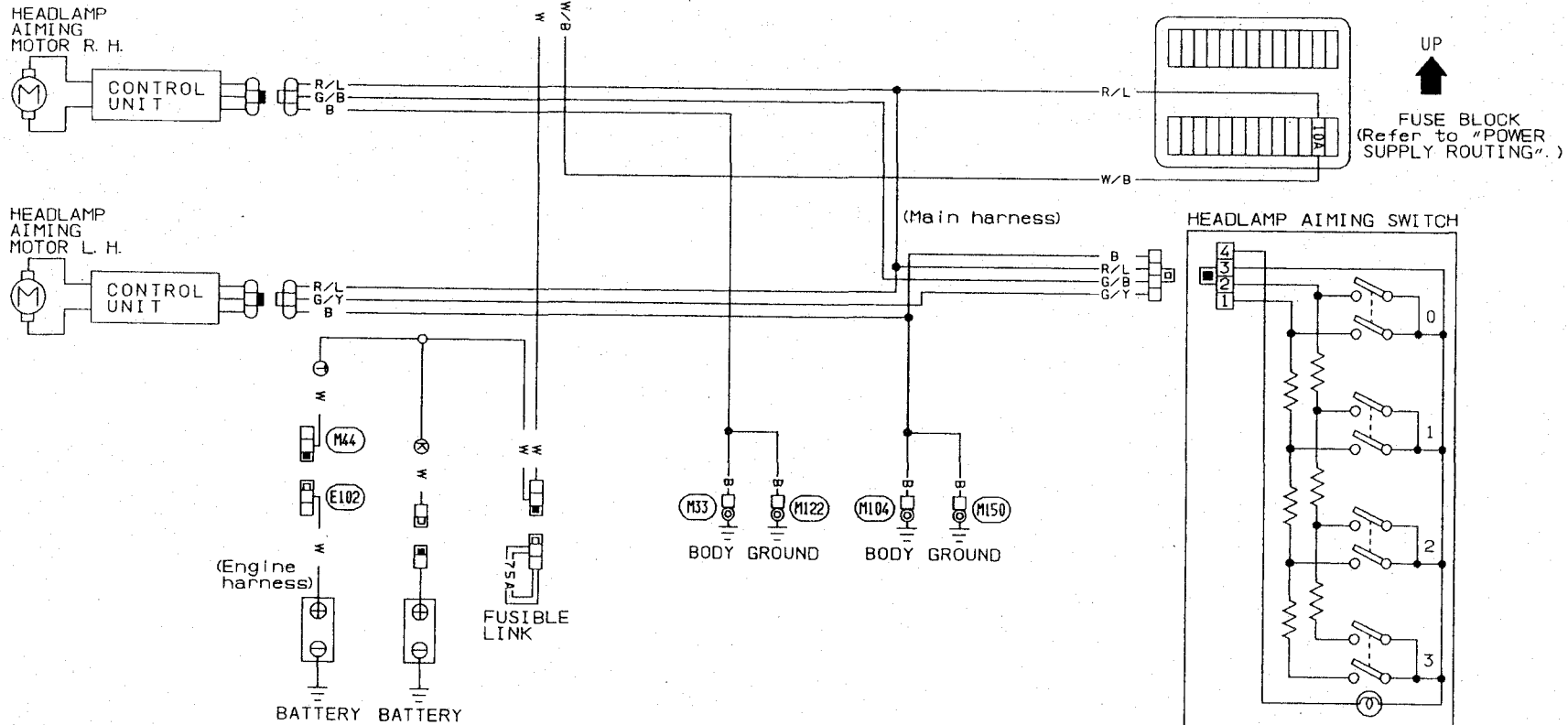
Wiring Diagram

(K) : KA24E engine models

(T) : TD27T engine models

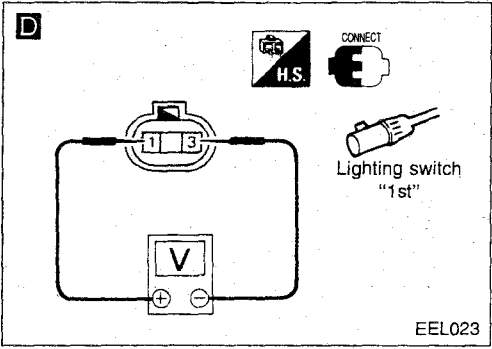
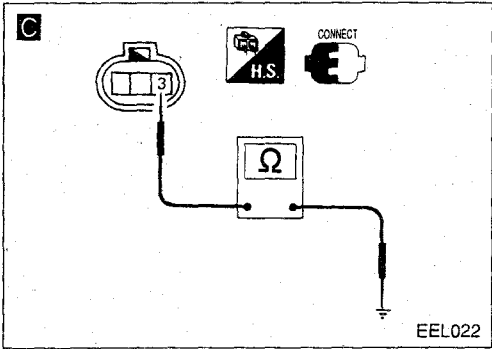
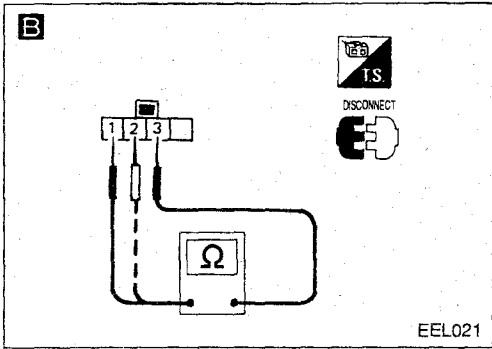
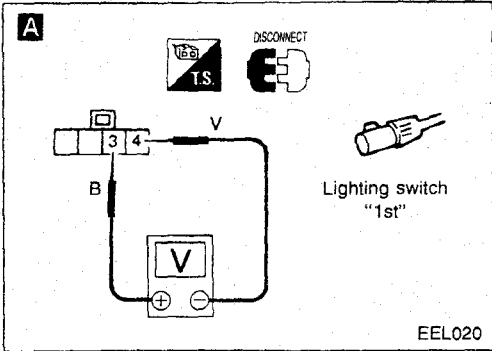
LIGHTING SWITCH											
	OFF			1ST			2ND				
	A	B	C	A	B	C	A	B	C		
5											
5B											
6											
7											
8											
9											
10											
11											
12											

7	12	9	6	2
10	11	8	5	3
				1



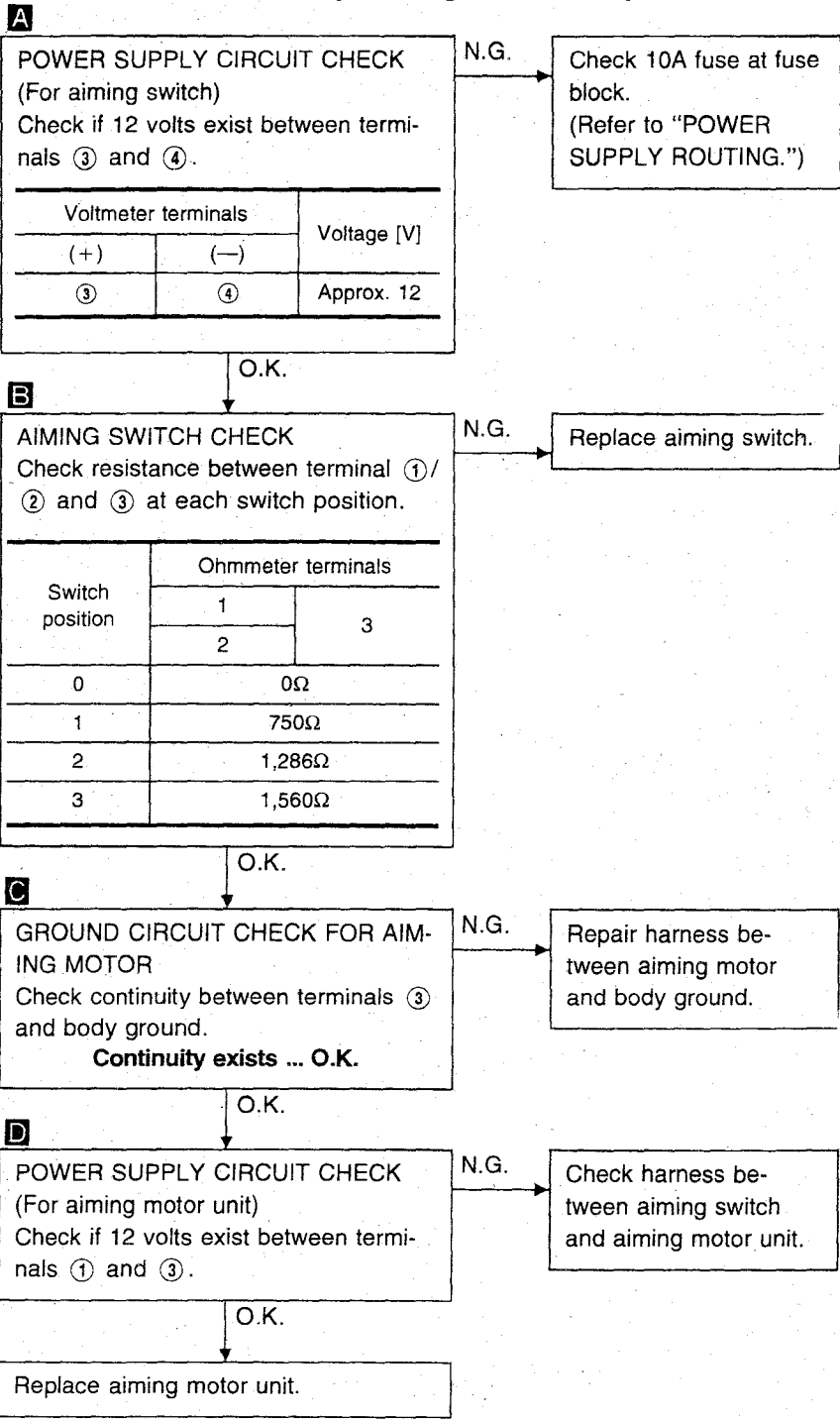
UP
FUSE BLOCK
(Refer to "POWER
SUPPLY ROUTING".)

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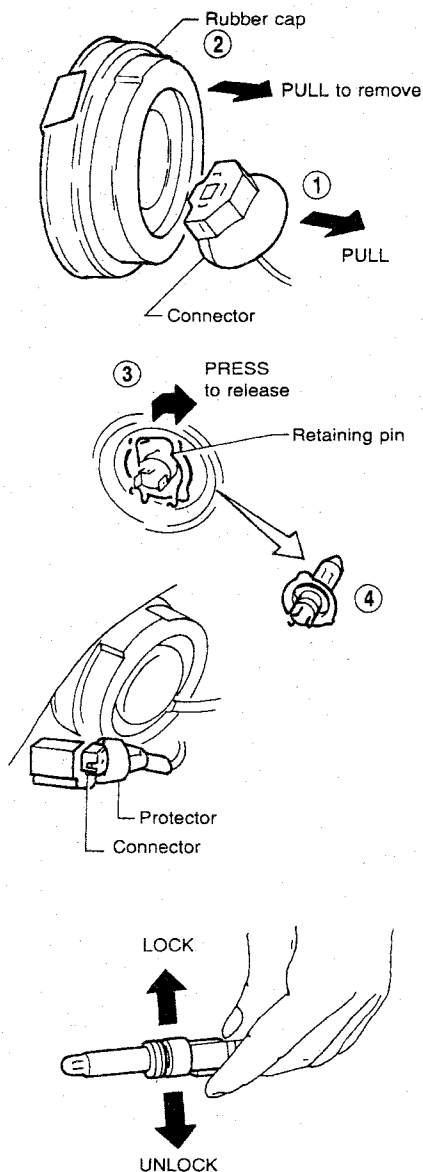


Trouble-diagnosis

SYMPTOM: Headlamp aiming does not operate.



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:

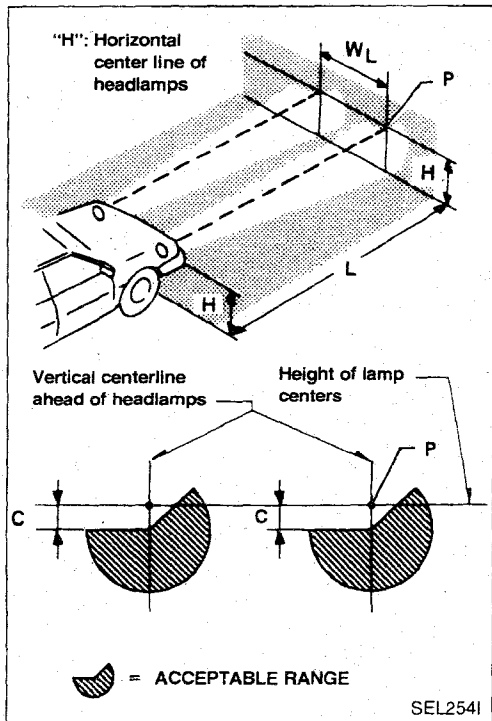
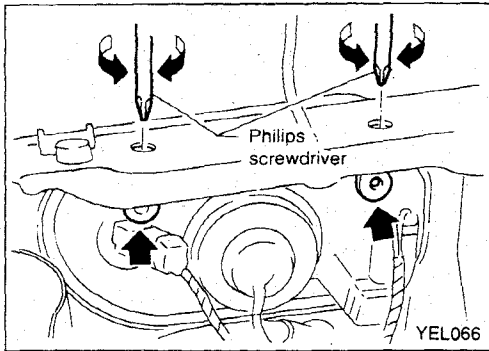
Be sure aiming switch is set to "0" when performing aiming adjustment on vehicles equipped with headlamp aiming control.

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
 "WL": Distance between each headlamp center
 "L": 5,000 mm (196.85 in)
 "C": 65 mm (2.56 in)

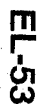
Clearance, License, Tail and Stop Lamps/Wiring Diagram

- (K) : KA24E engine models
- (T) : TD27T engine models
- (E) : Except TD27T engine STD grade hardtop models for South Europe
- (S) : TD27T engine STD grade hardtop models for South Europe

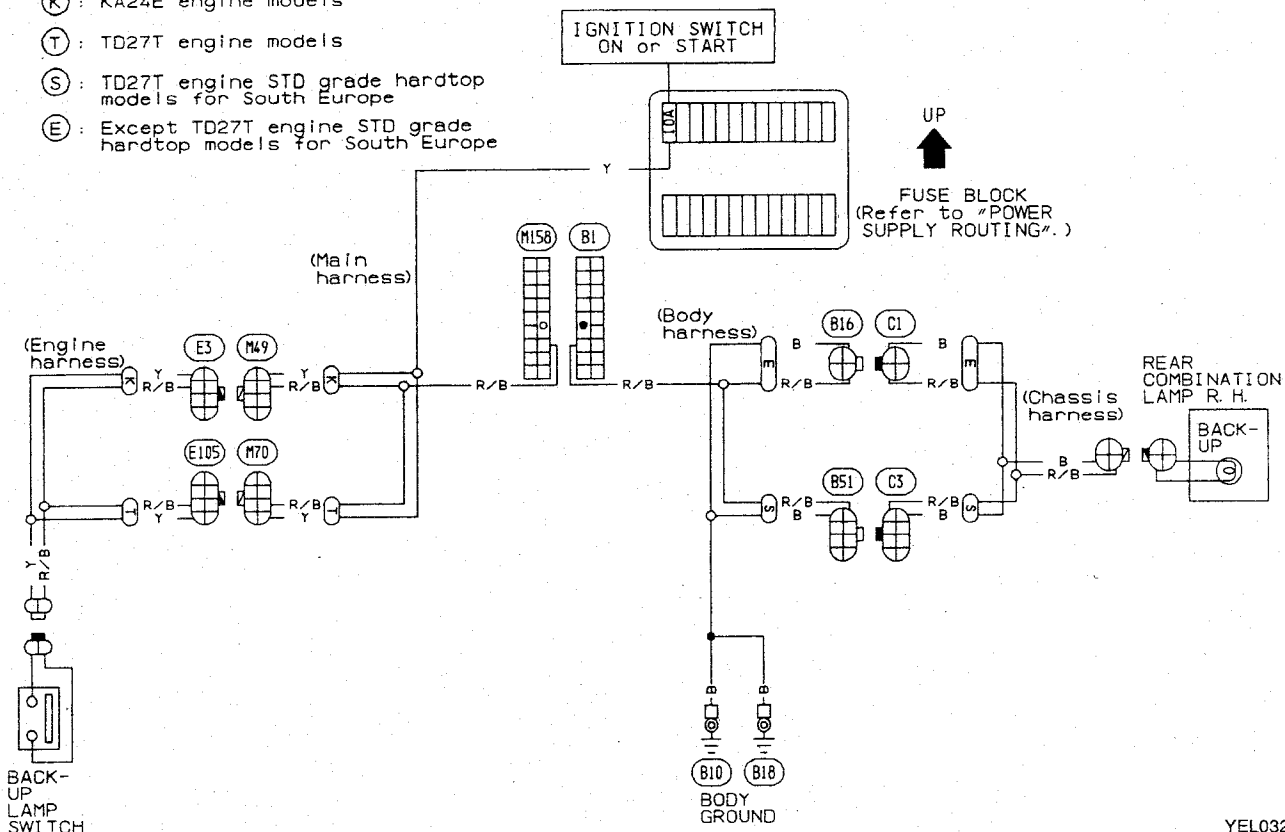


Clearance, License, Tail and Stop Lamps/ Wiring Diagram (Cont'd)

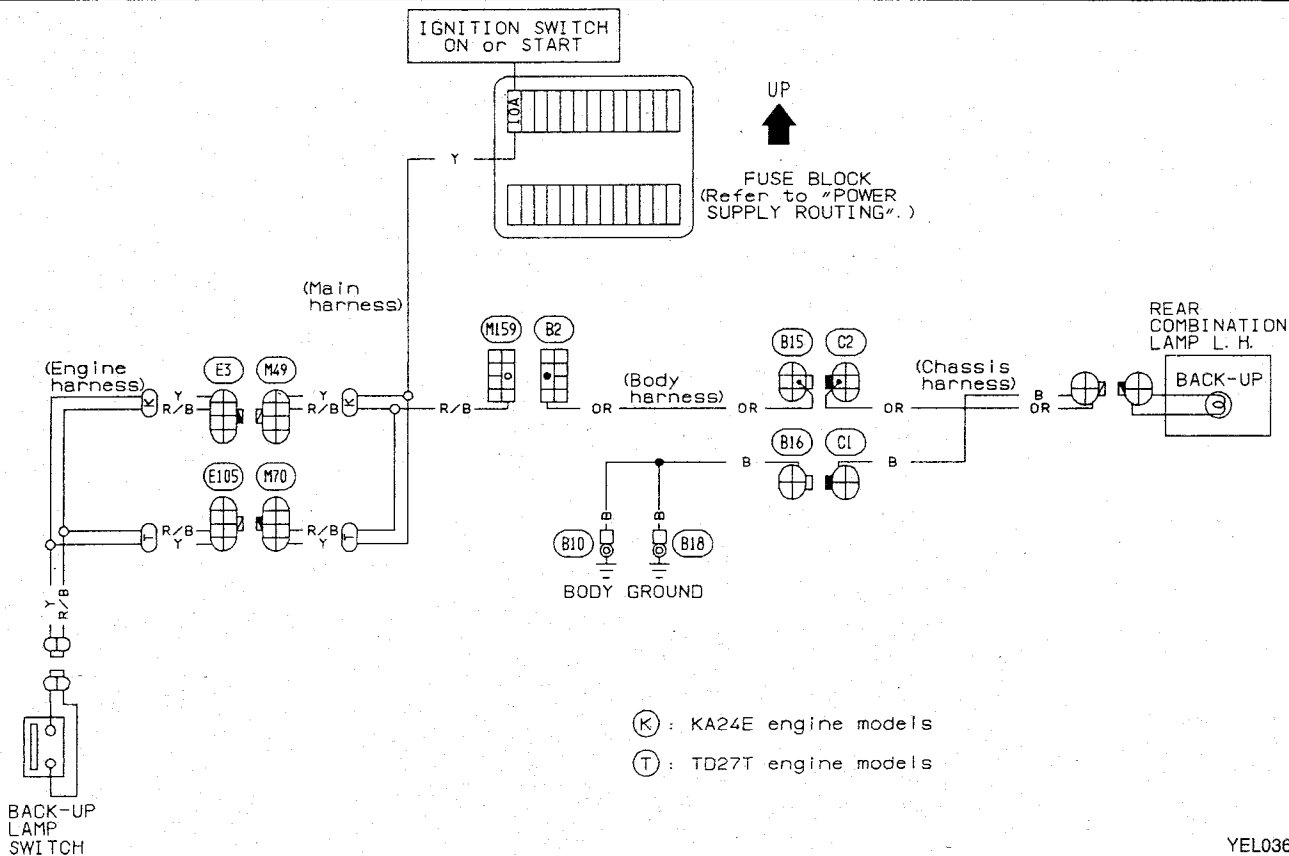
- (K) : KA24E engine models
- (T) : TD27T engine models
- (H) : High mounted stop lamp equipped models
- (R) : R. H. D. models
- (DL) : L. H. D. models with daytime light system



- (K) : KA24E engine models
- (T) : TD27T engine models
- (S) : TD27T engine STD grade hardtop models for South Europe
- (E) : Except TD27T engine STD grade hardtop models for South Europe

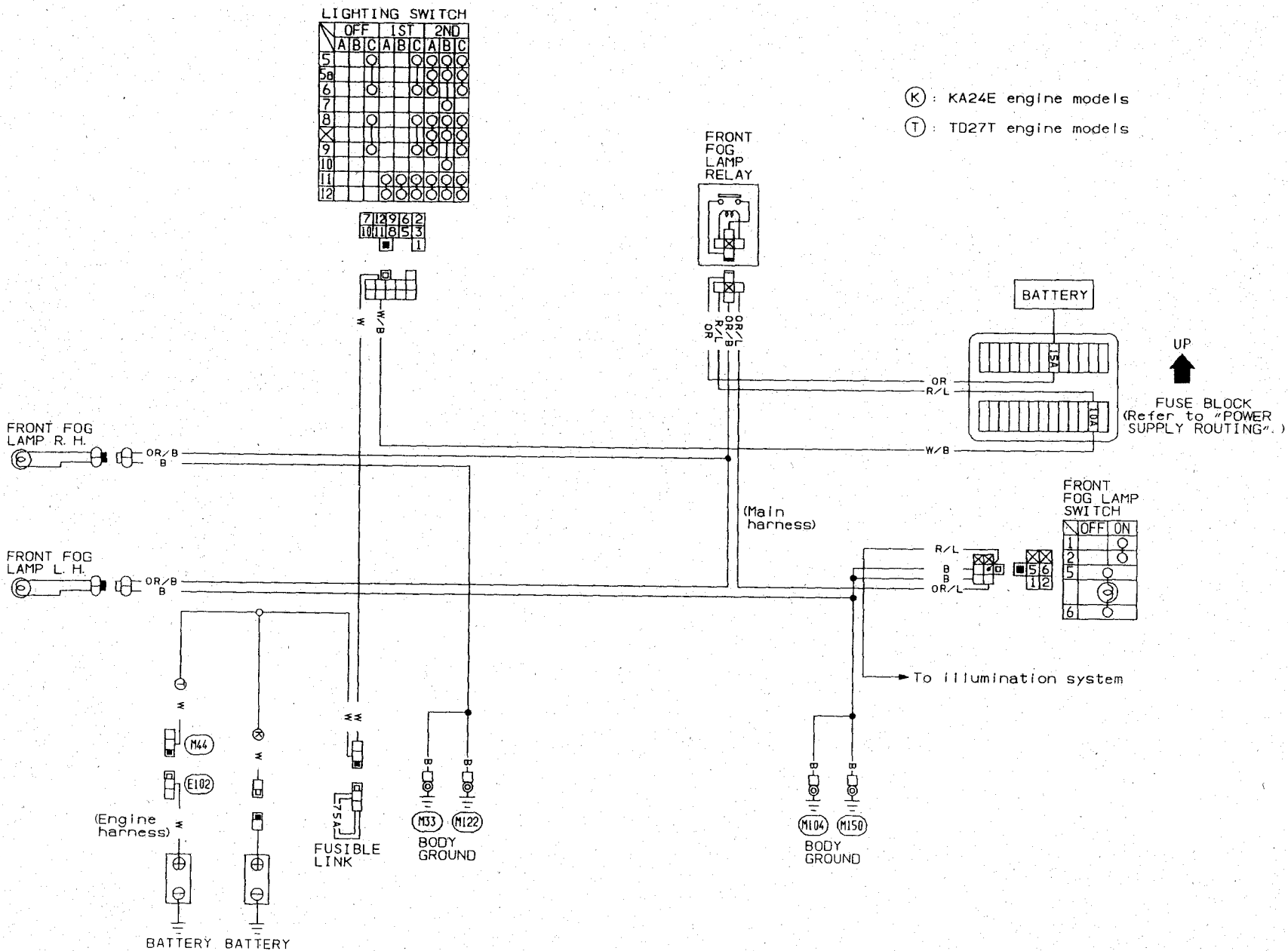


R.H.D. MODELS



EXTERIOR LAMP

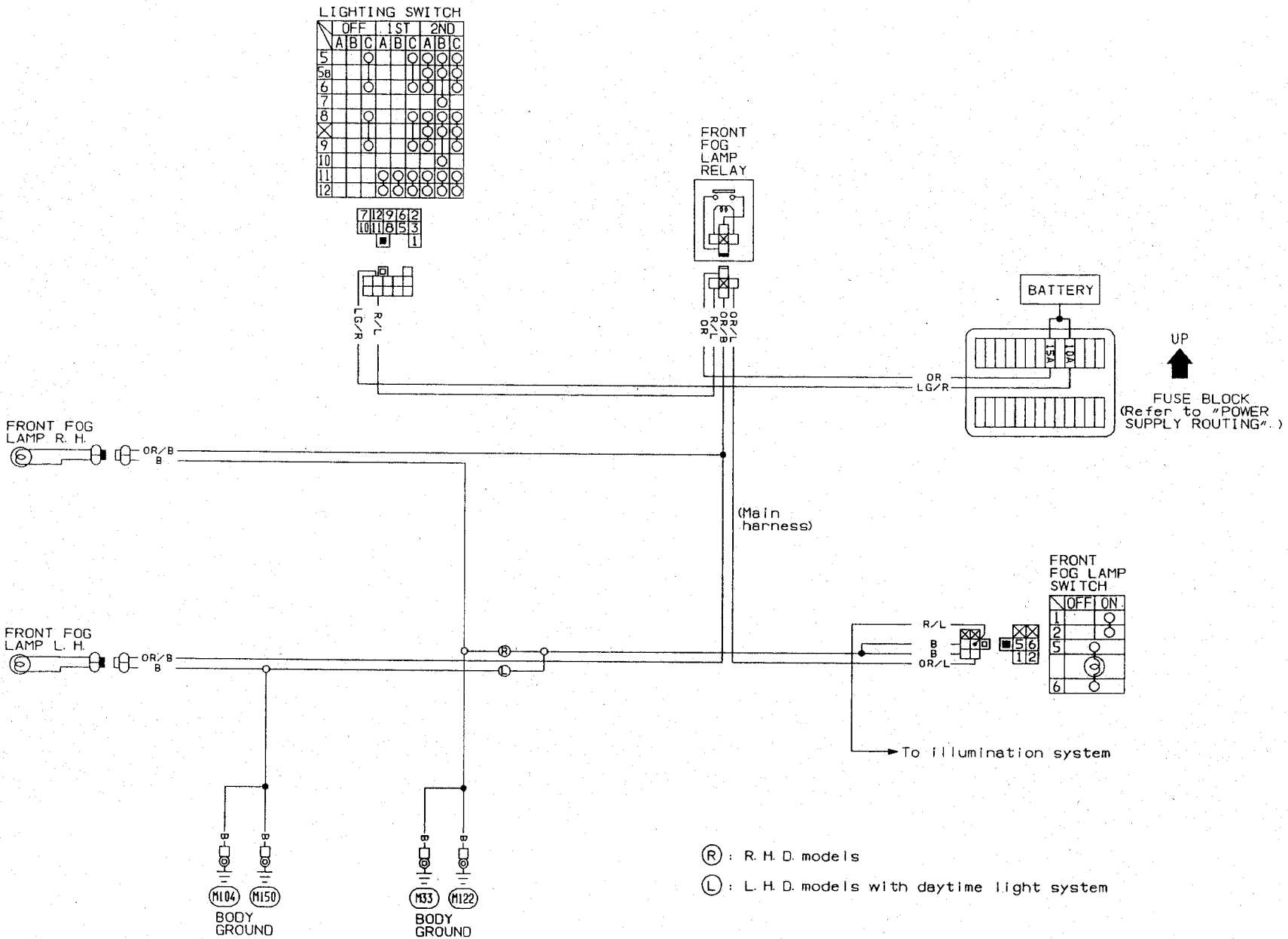
Front Fog Lamp/Wiring Diagram L.H.D. MODELS WITHOUT DAYTIME LIGHT SYSTEM



EXTERIOR LAMP

Front Fog Lamp/Wiring Diagram (Cont'd)

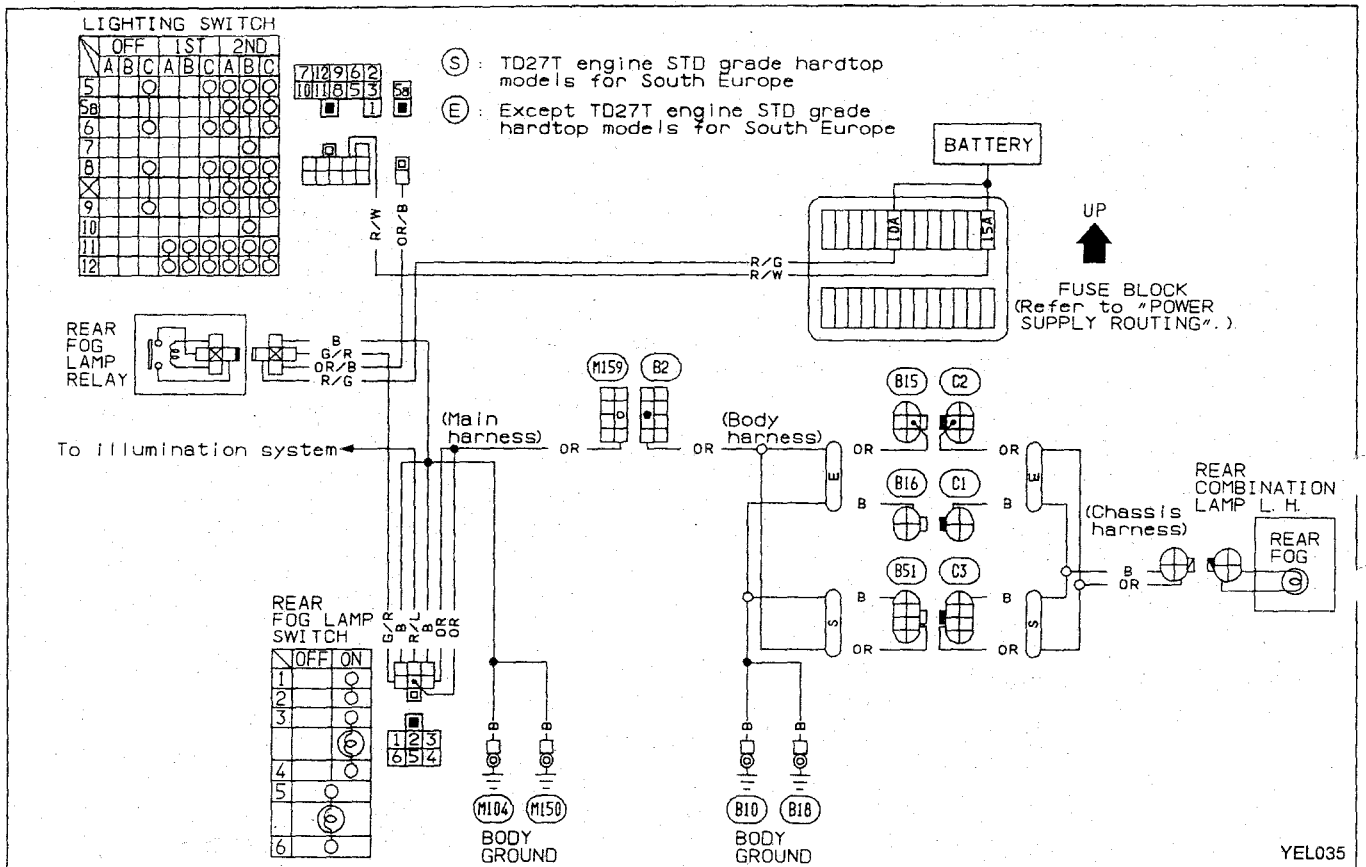
MODELS WITH DAYTIME LIGHT SYSTEM



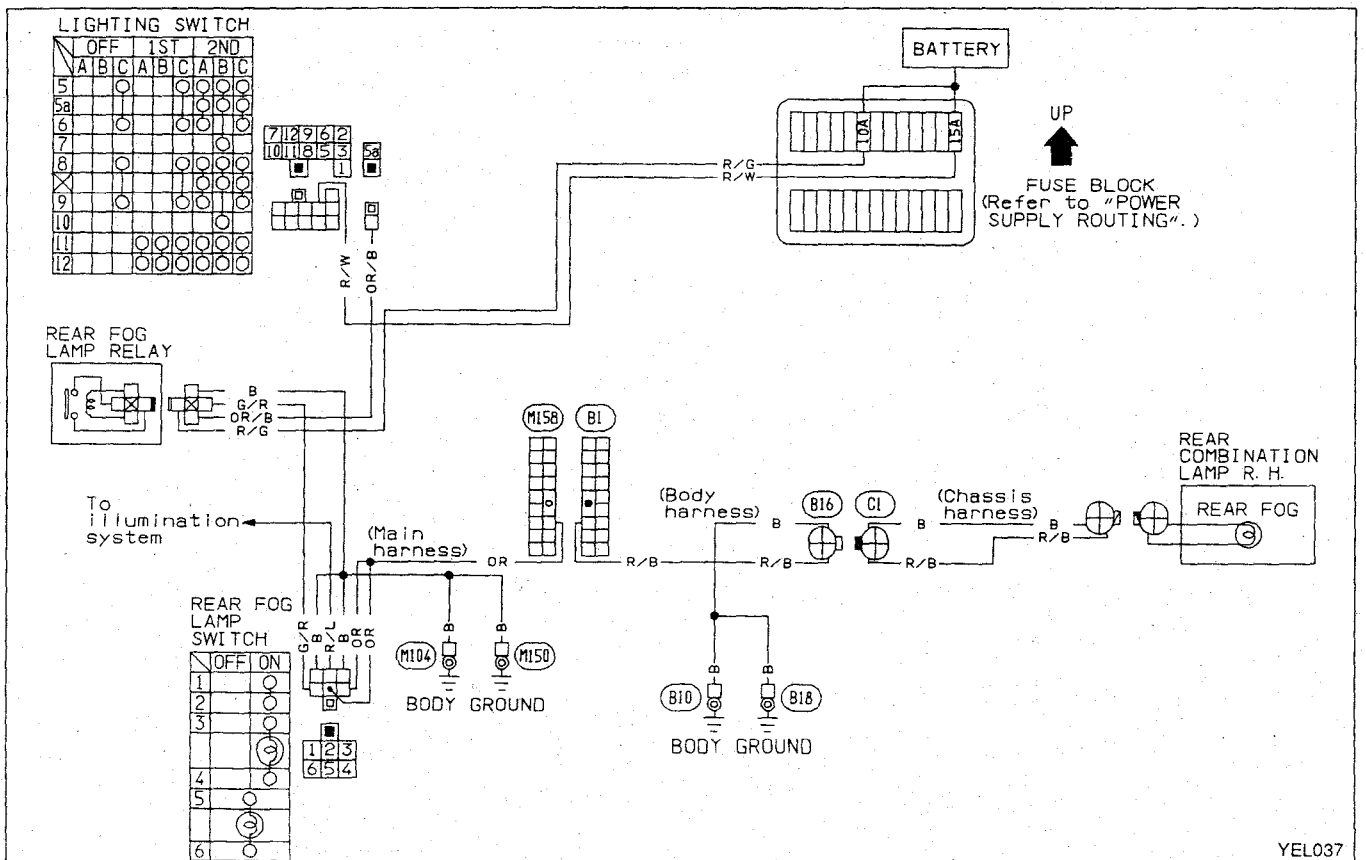
EXTERIOR LAMP

Rear Fog Lamp/Wiring Diagram

L.H.D. MODELS



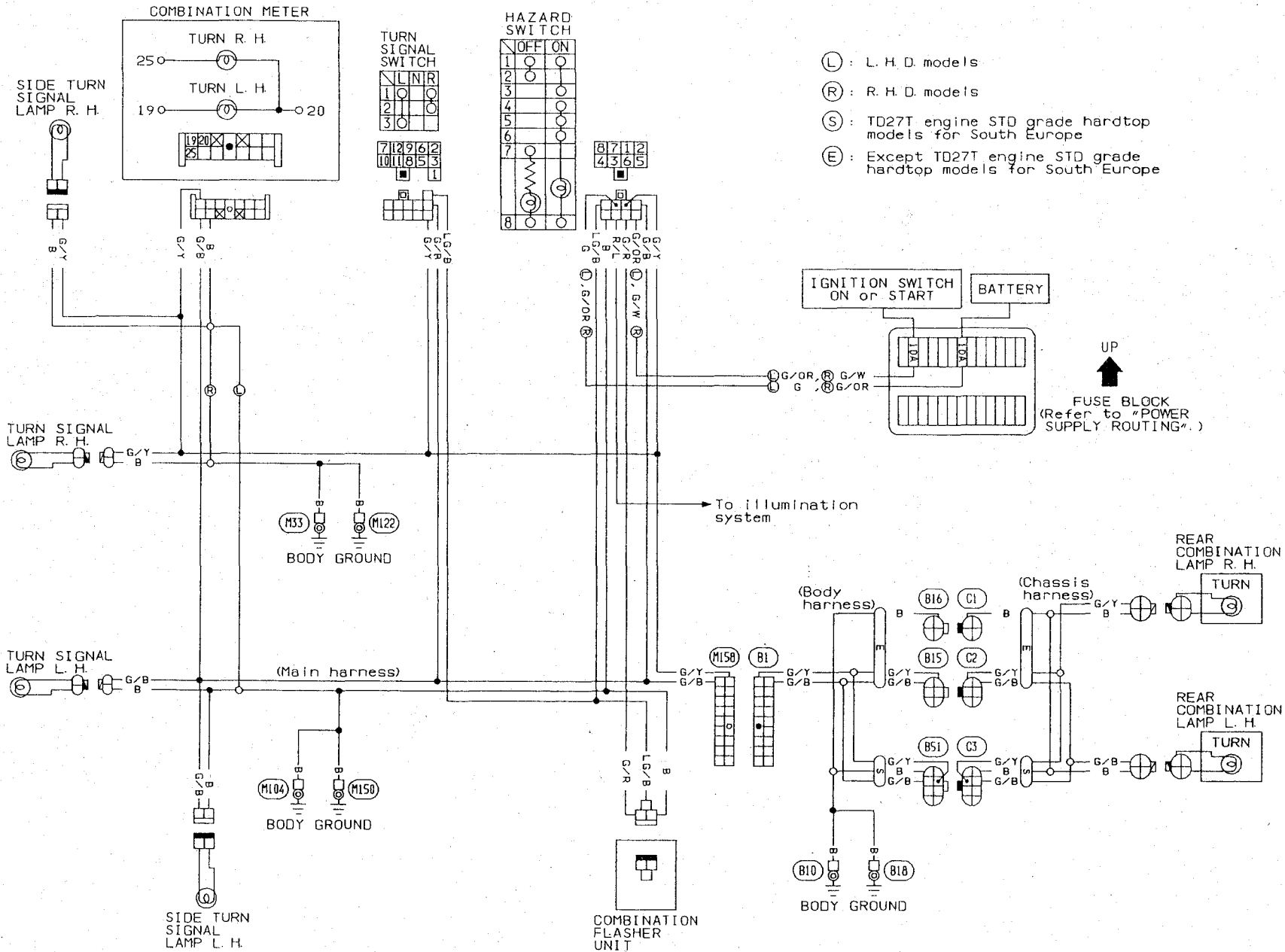
R.H.D. MODELS



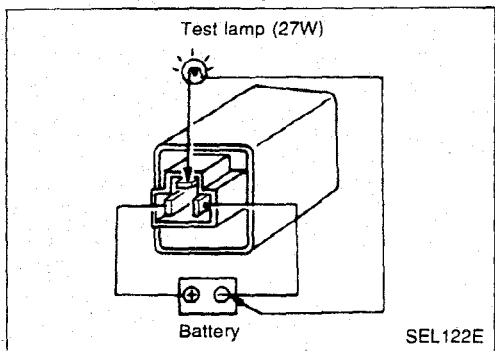
EXTERIOR LAMP

Turn Signal and Hazard Warning Lamps/Wiring Diagram

- (L) : L. H. D. models
- (R) : R. H. D. models
- (S) : TD27T engine STD grade hardtop models for South Europe
- (E) : Except TD27T engine STD grade hardtop models for South Europe



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.

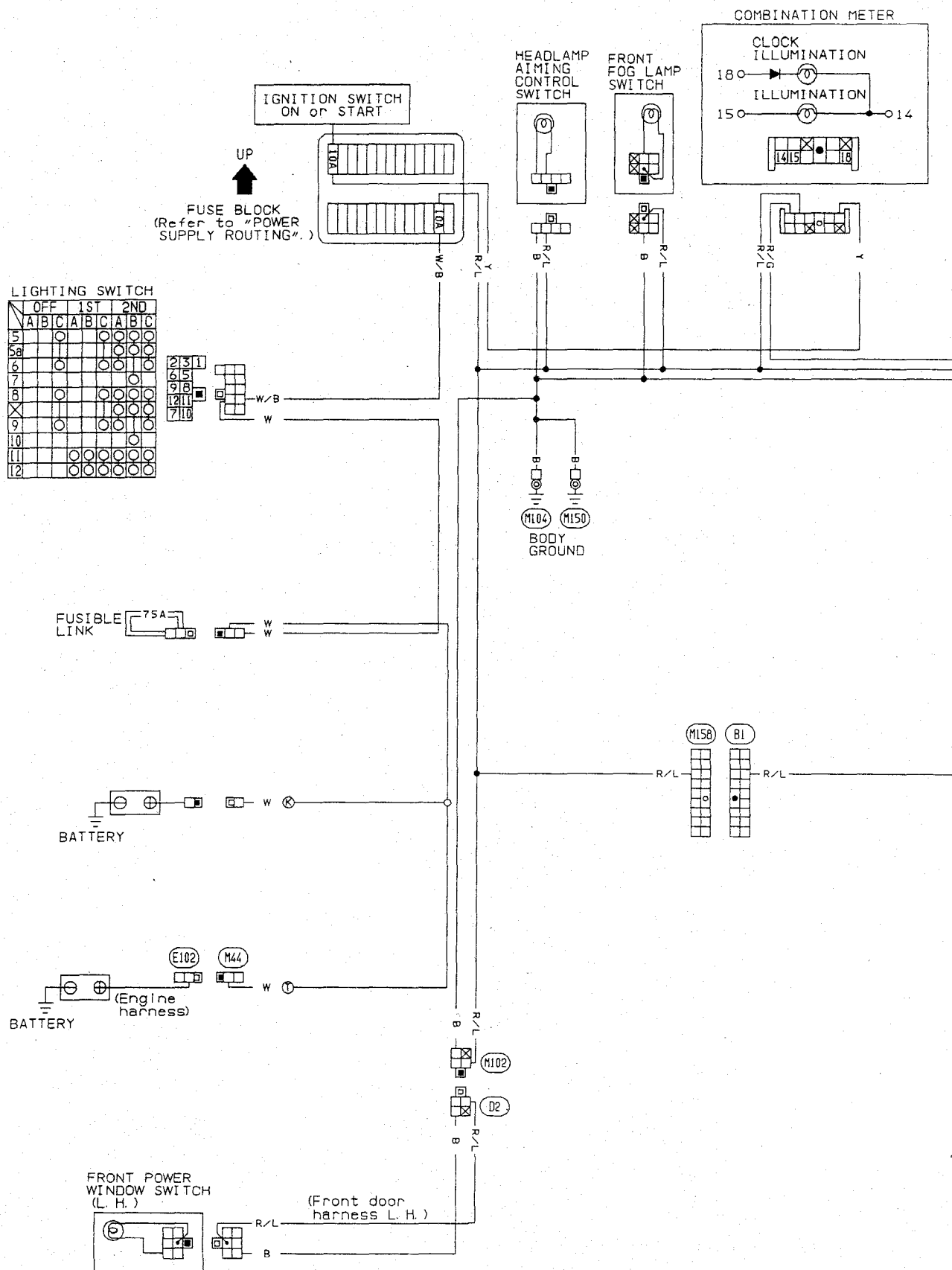
Bulb Specifications

	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

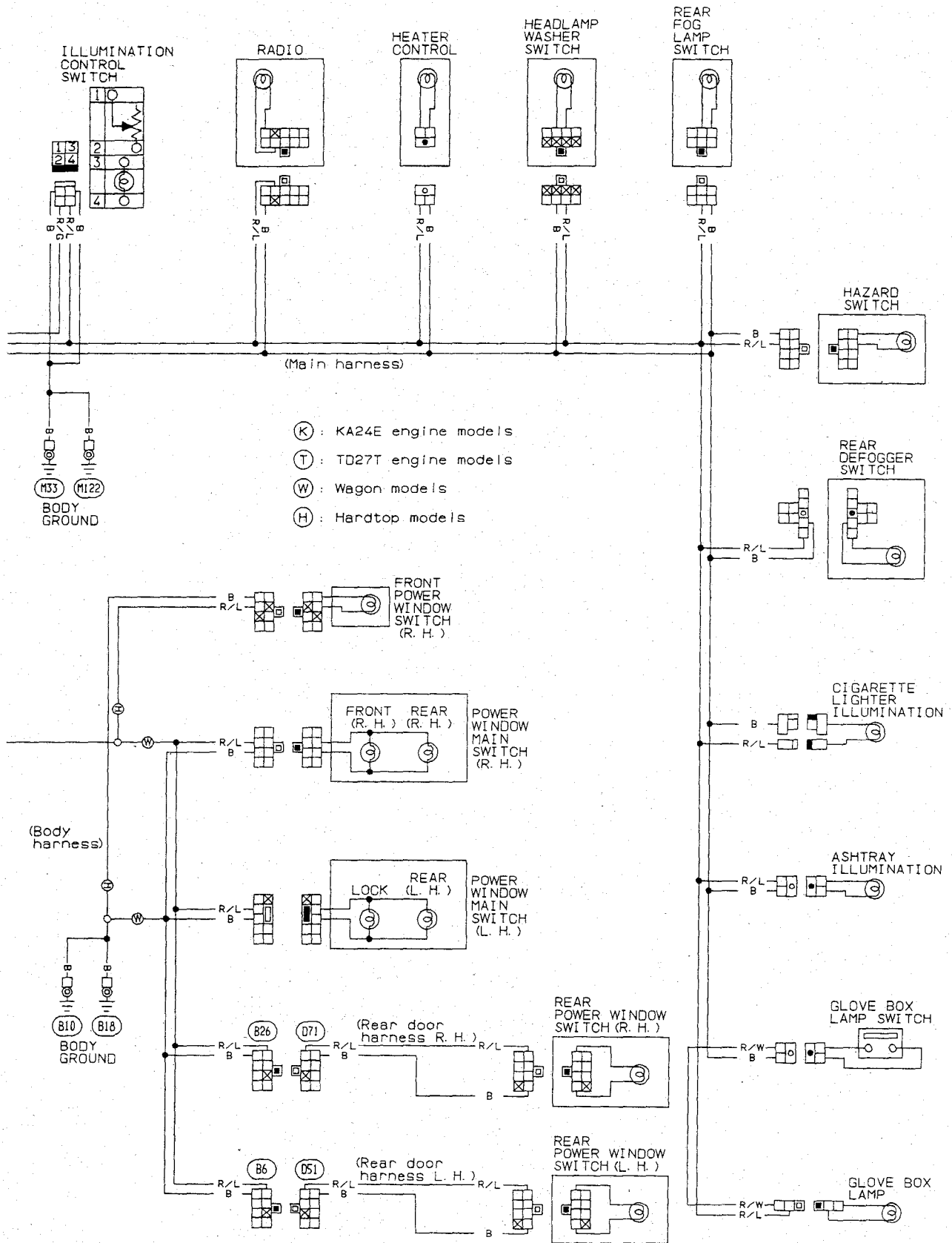
Illumination/Wiring Diagram

L.H.D. MODELS WITHOUT DAYTIME LIGHT SYSTEM



INTERIOR LAMP

Illumination/Wiring Diagram (Cont'd)

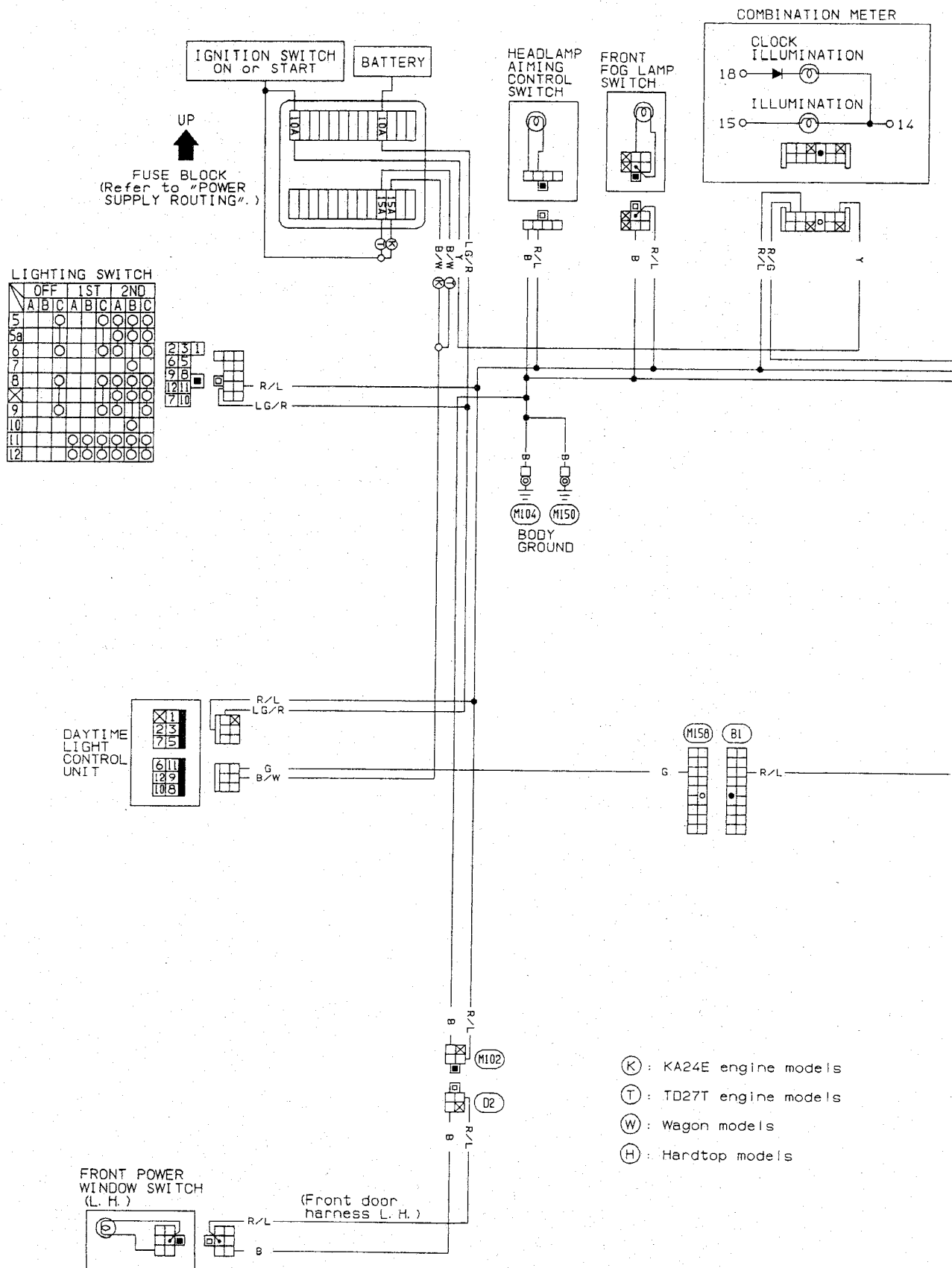


YEL039

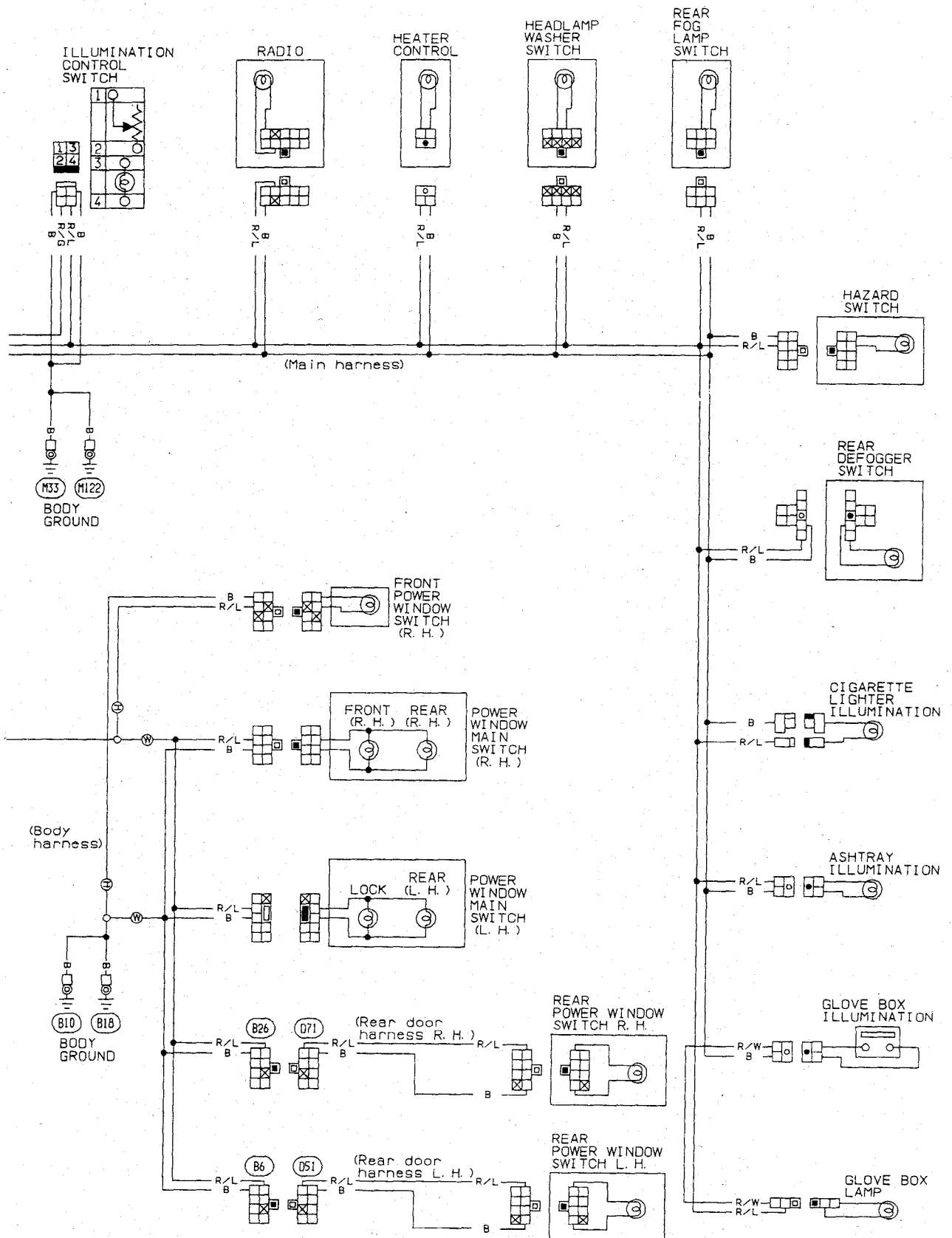
INTERIOR LAMP

Illumination/Wiring Diagram (Cont'd)

L.H.D. MODELS WITH DAYTIME LIGHT SYSTEM

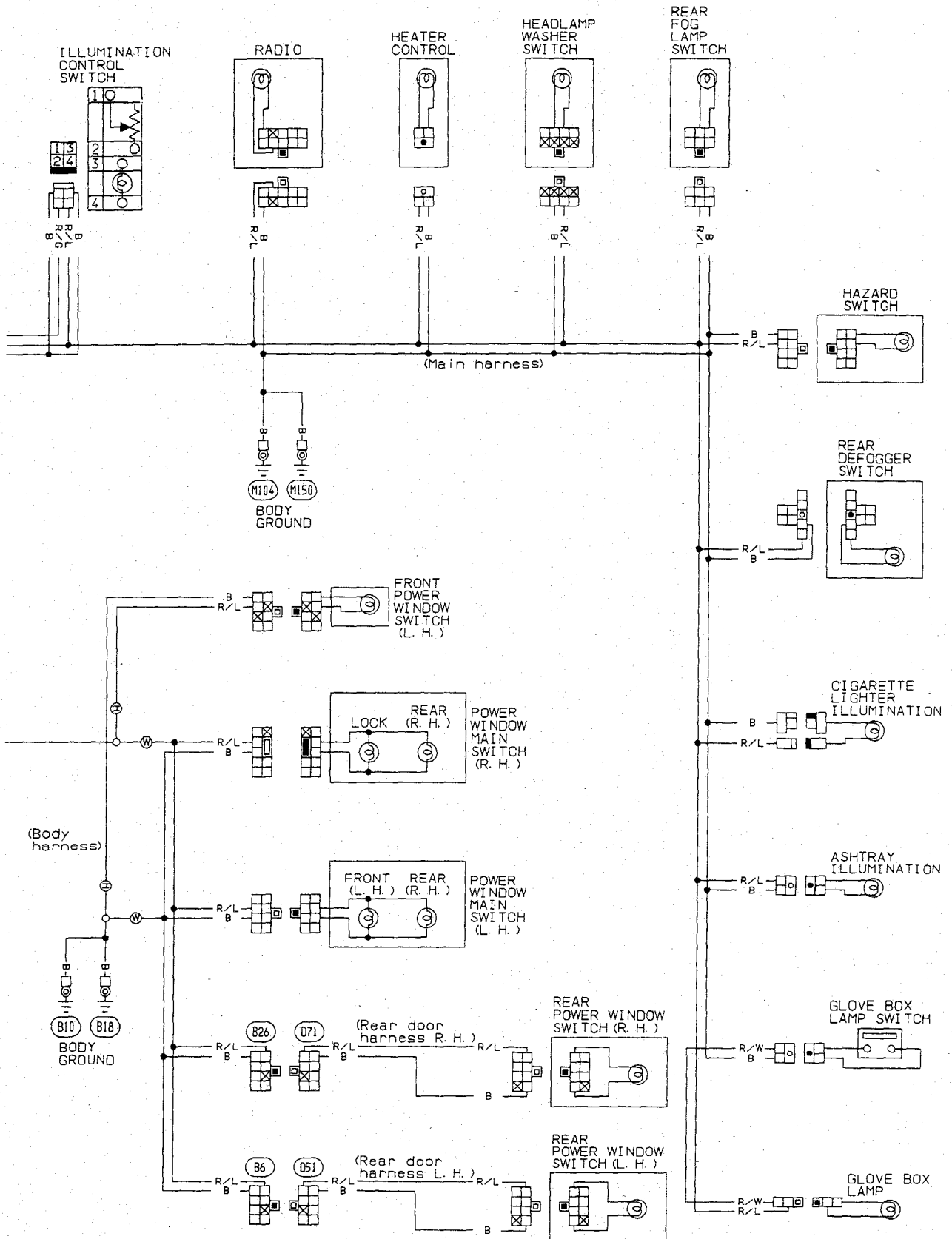


INTERIOR LAMP Illumination/Wiring Diagram (Cont'd)



INTERIOR LAMP

Illumination/Wiring Diagram (Cont'd)

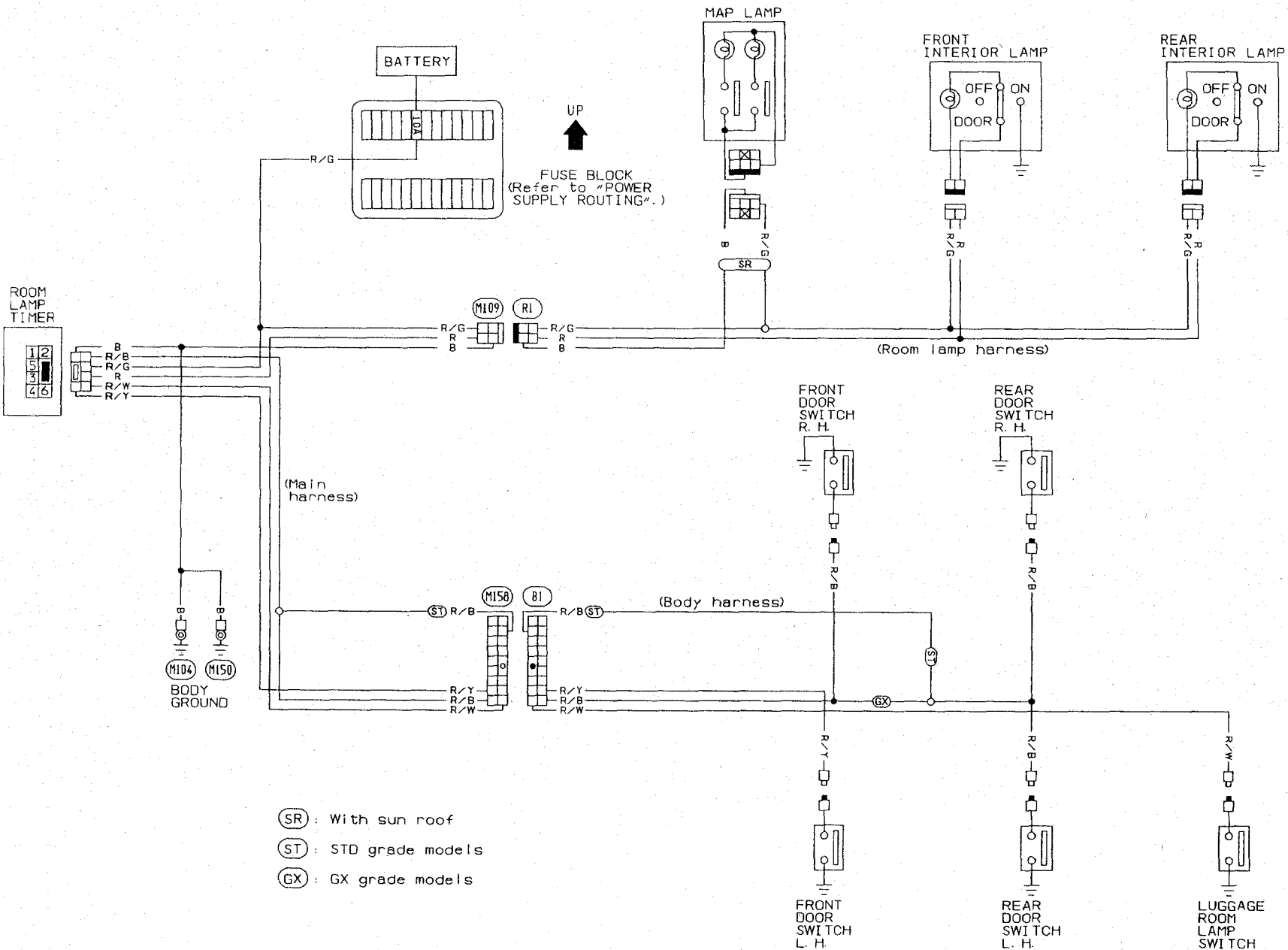


YEL041

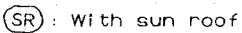
INTERIOR LAMP

L.H.D. WAGON MODELS

Interior, Spot and Luggage Room Lamps/Wiring Diagram

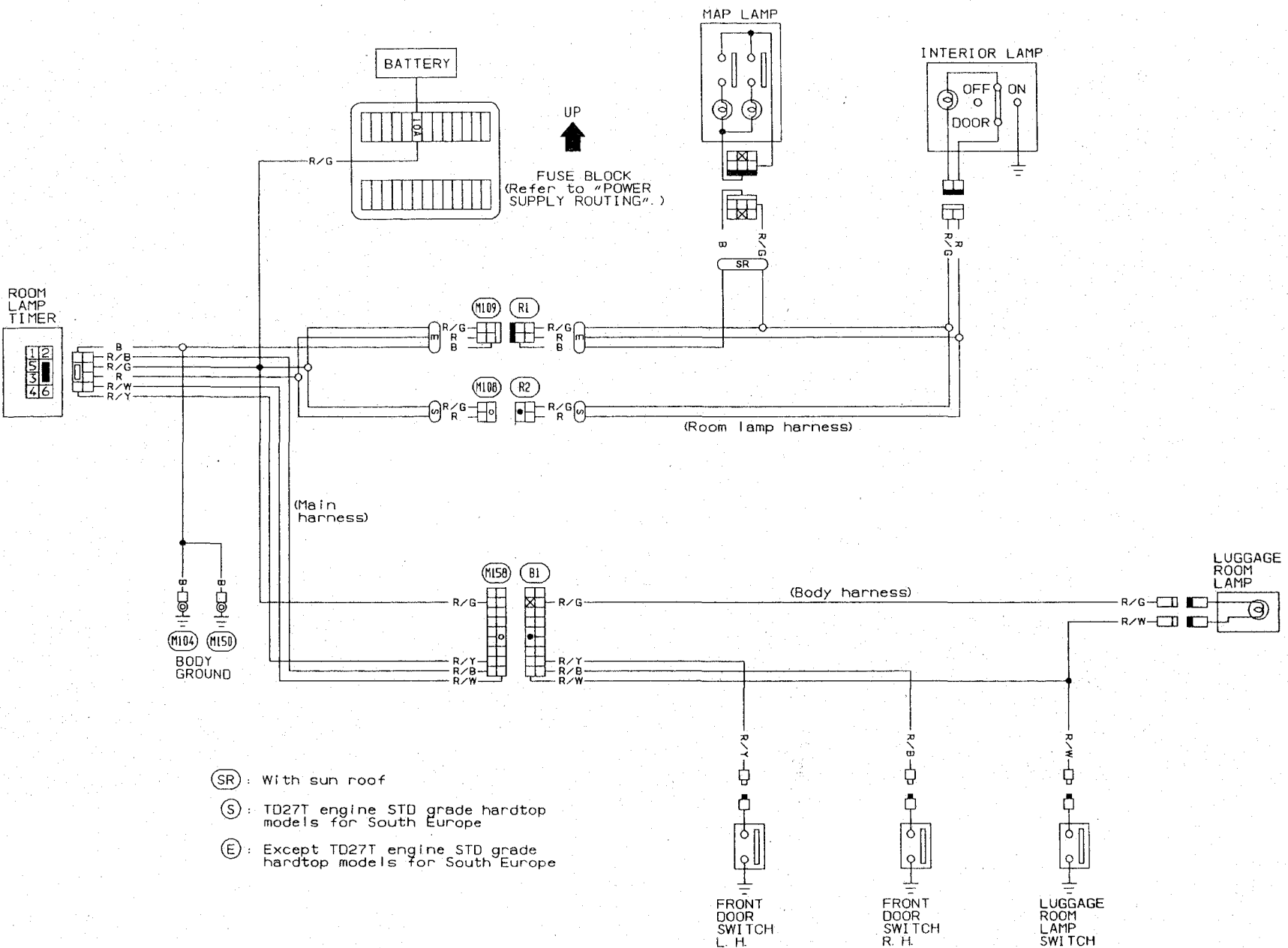


EL-66



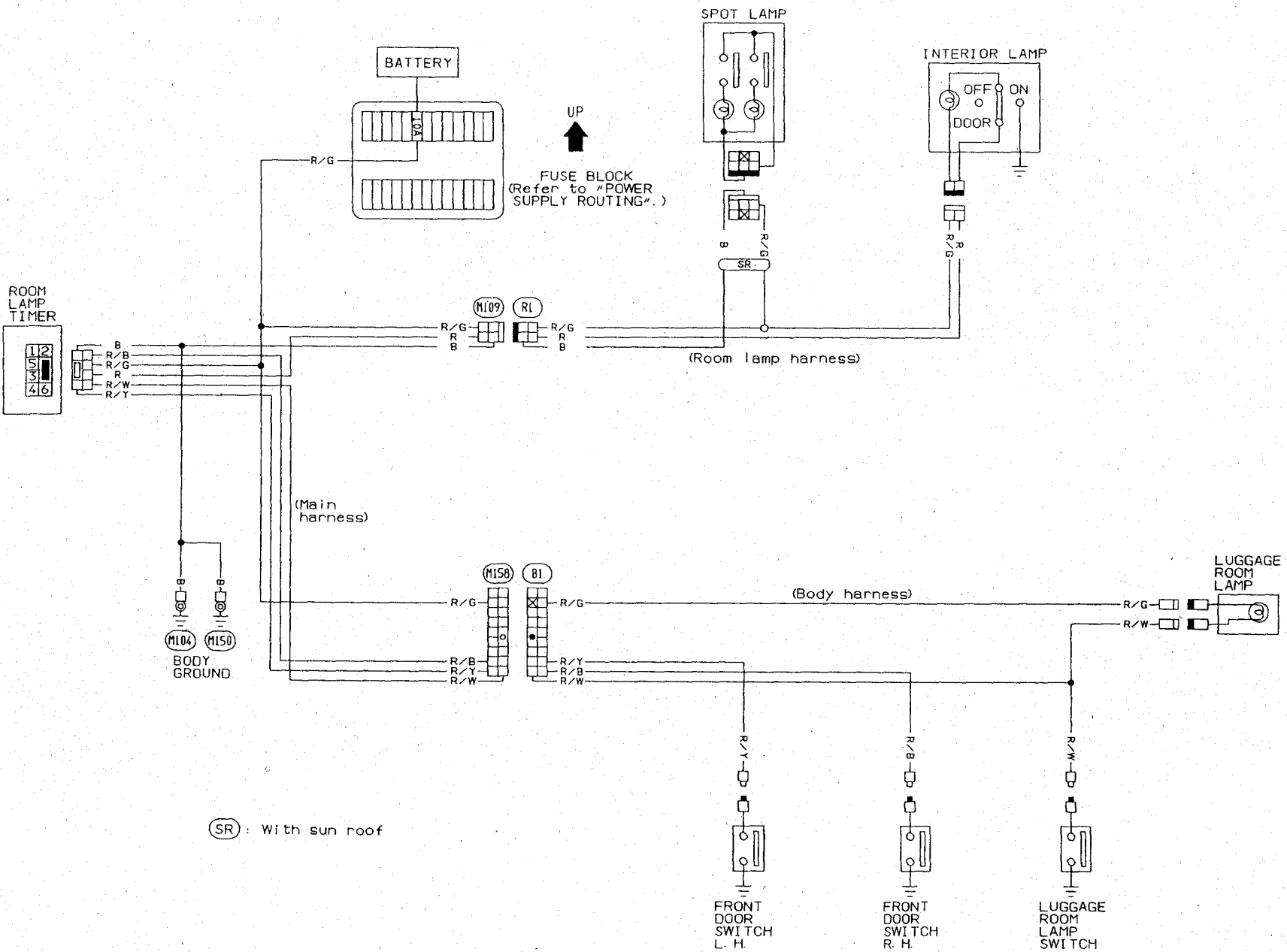
YEL043

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



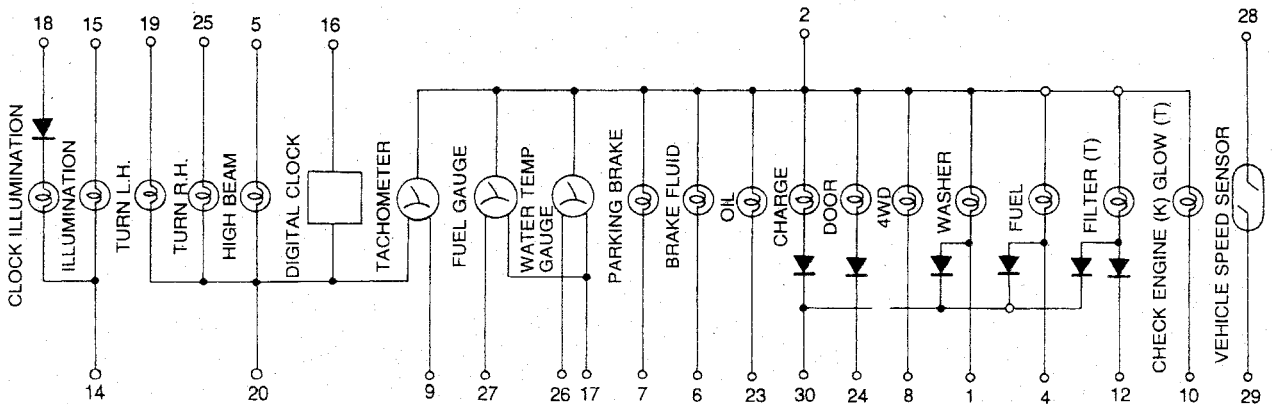
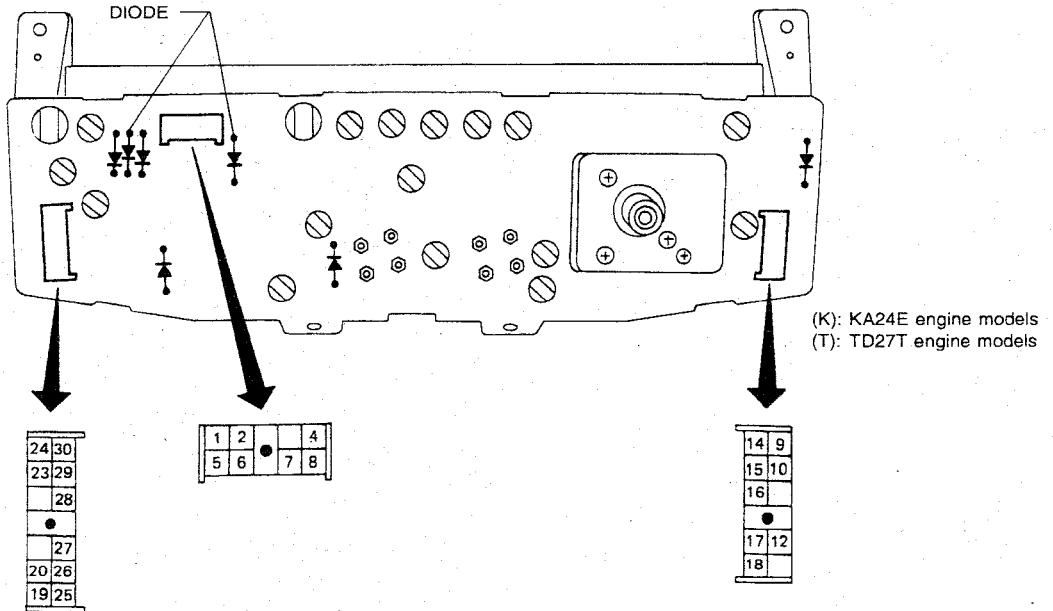
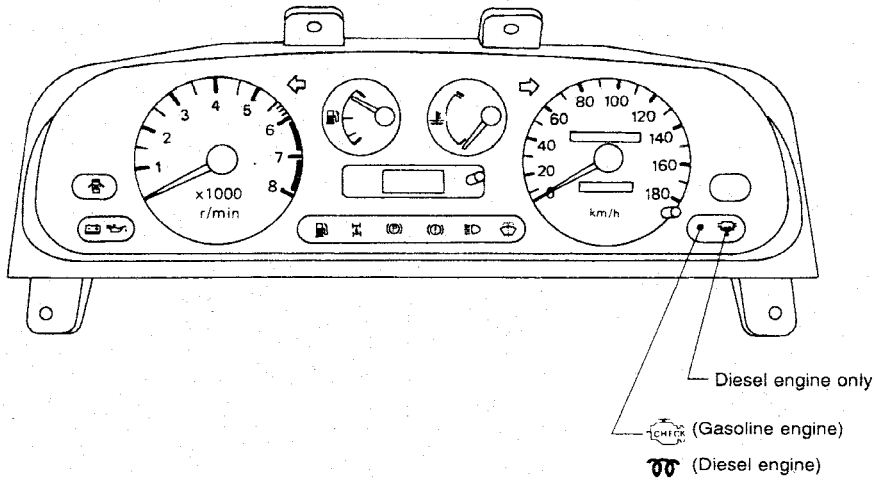
- (SR) : With sun roof
- (S) : TD27T engine STD grade hardtop models for South Europe
- (E) : Except TD27T engine STD grade hardtop models for South Europe

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



Combination Meter

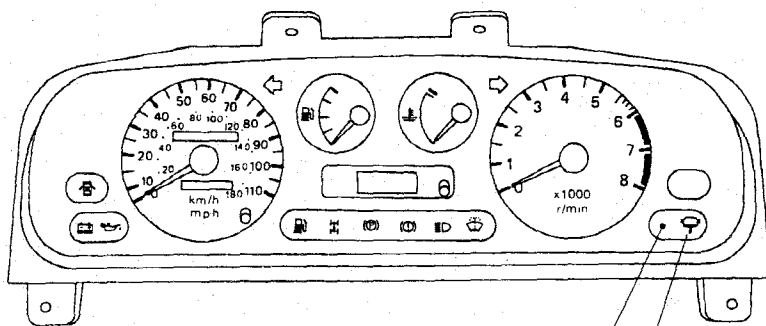
L.H.D. MODELS



METER AND GAUGES

Combination Meter (Cont'd)

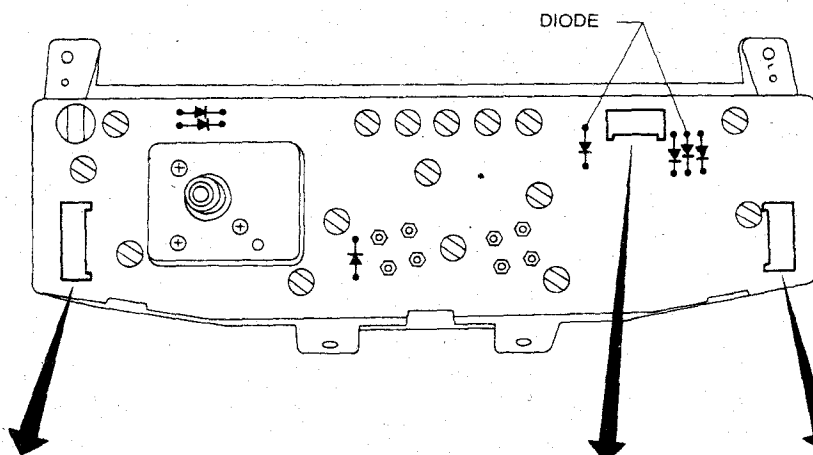
R.H.D. MODELS



Diesel engine only

(Gasoline engine)

(Diesel engine)



DIODE

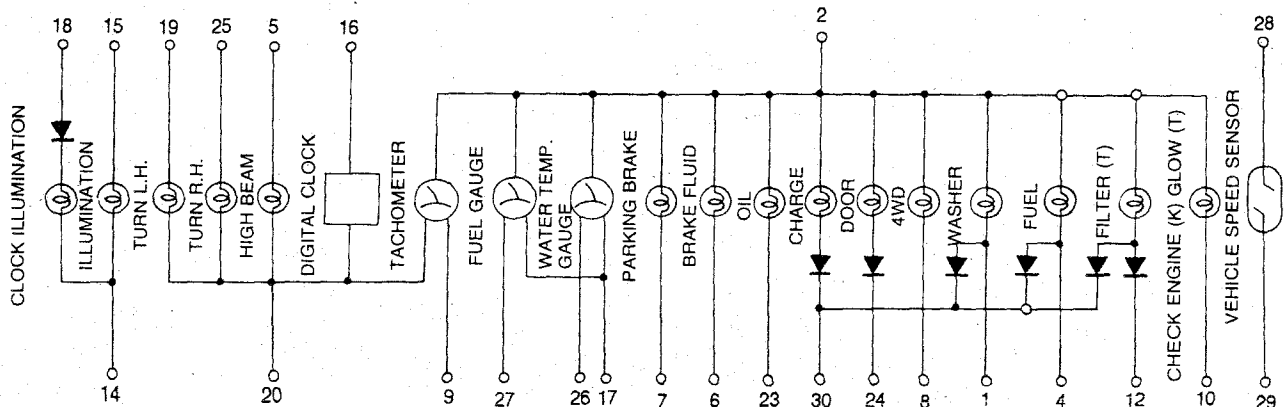
(K): KA24E engine models

(T): TD27T engine models

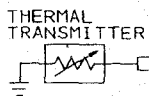
24	30
23	29
	28
•	
27	
20	26
19	25

1	2		4
5	6	•	7
			8

14	9
15	10
16	
•	
17	12
18	

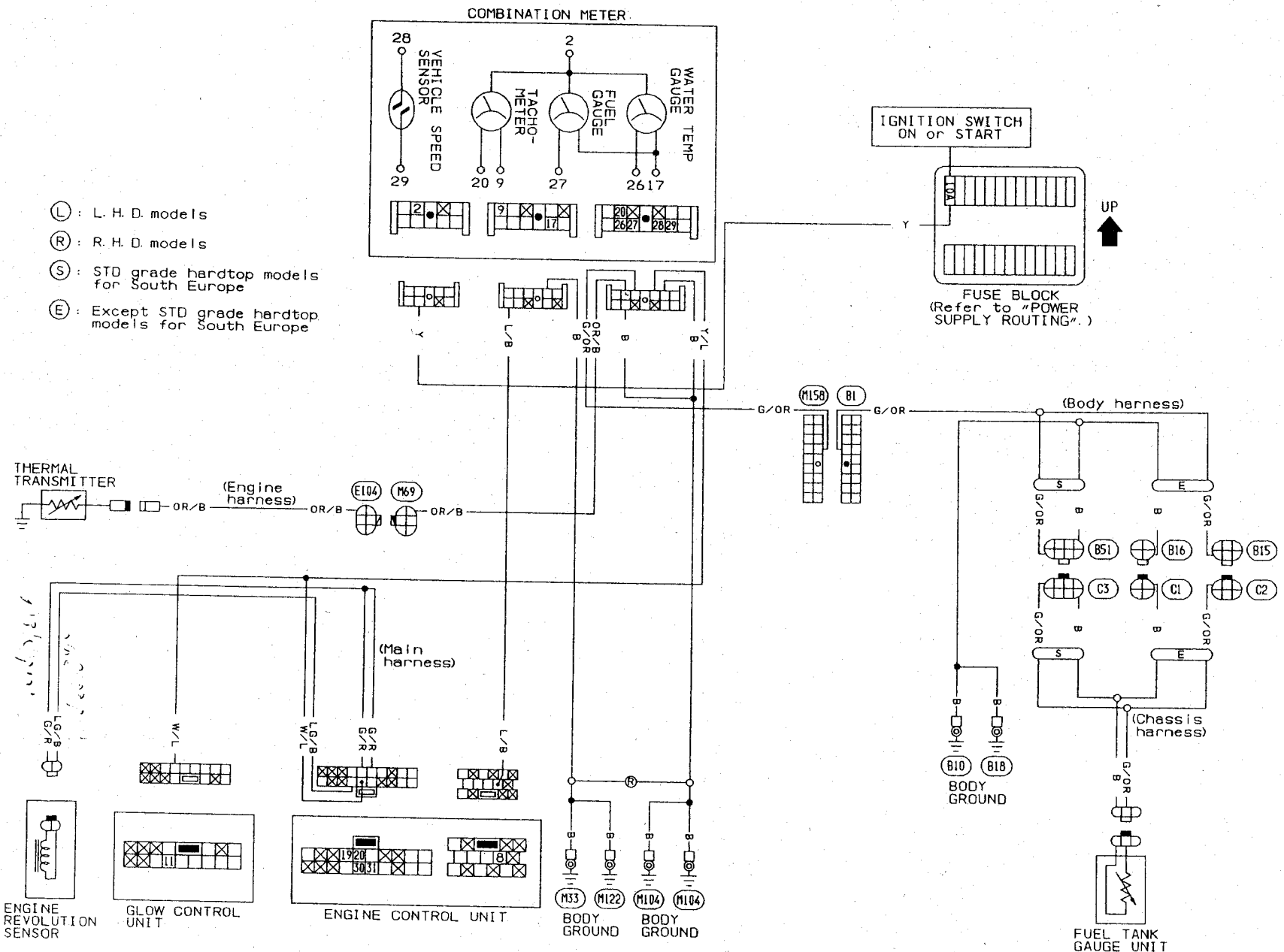


Ⓐ : L. H. D. models
Ⓑ : R. H. D. models

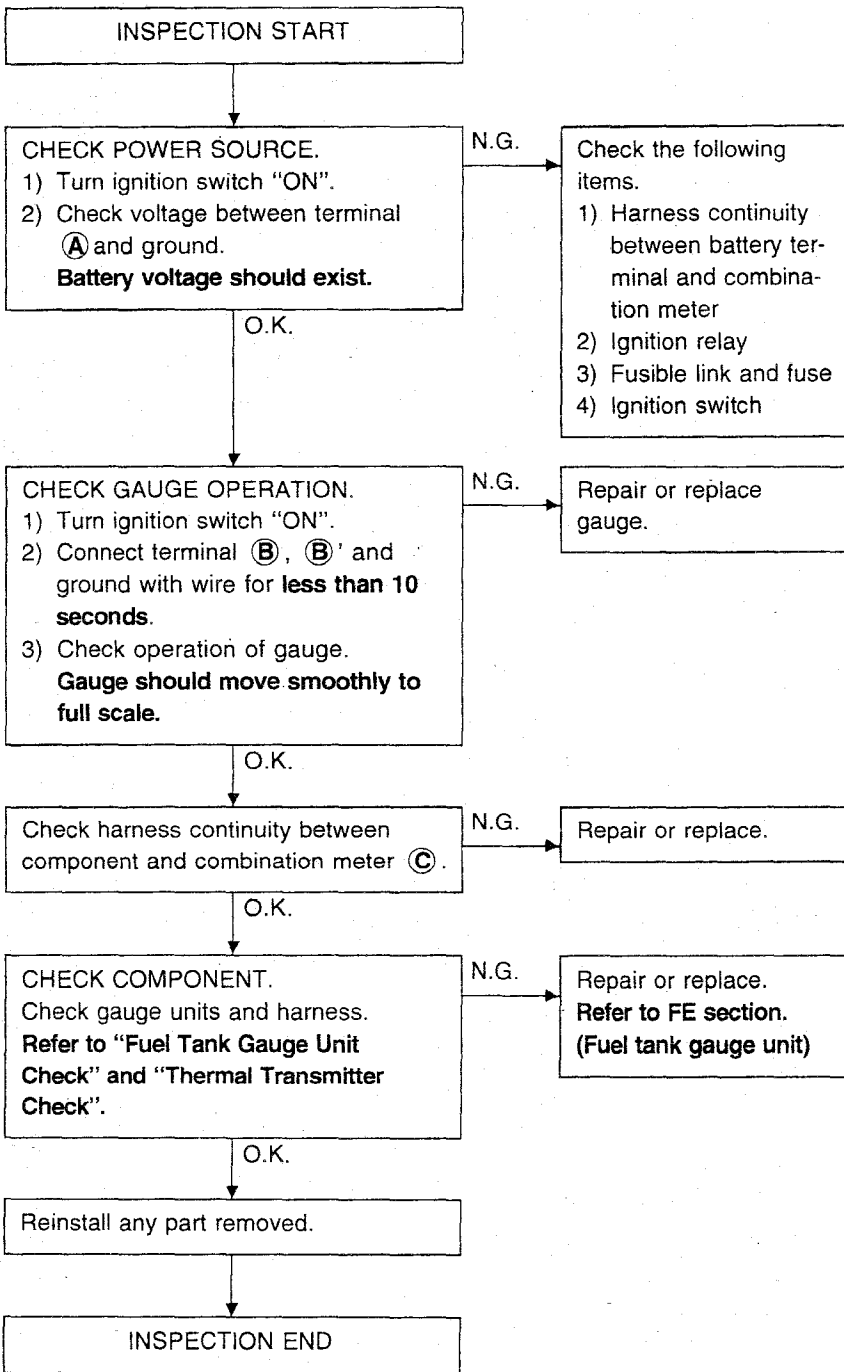
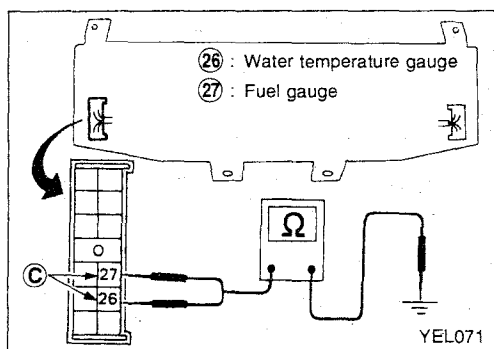
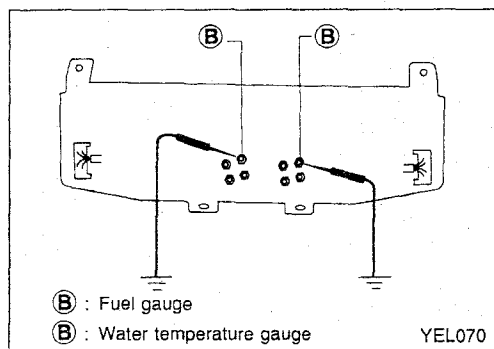
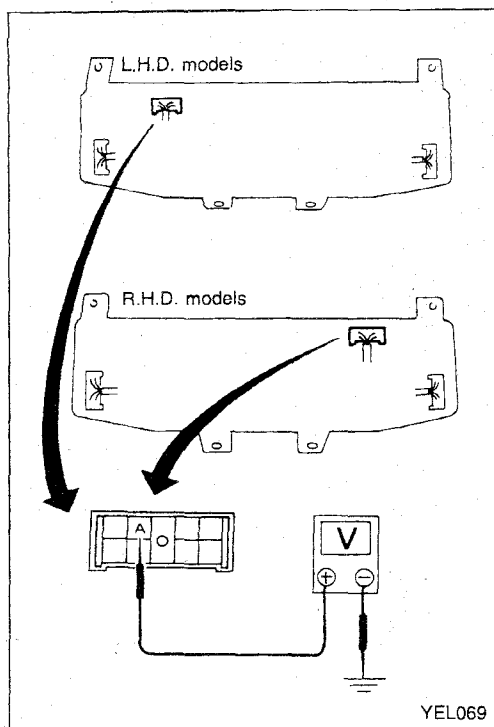


METER AND GAUGES

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



Inspection/Fuel Gauge and Water Temperature Gauge

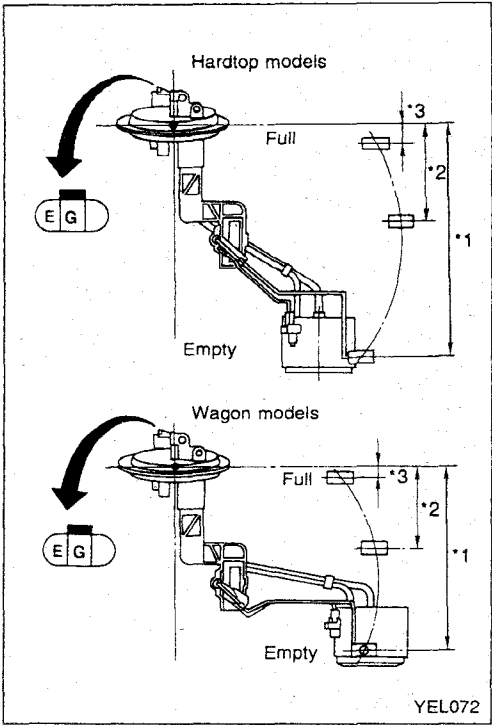


Fuel Tank Gauge Unit Check

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

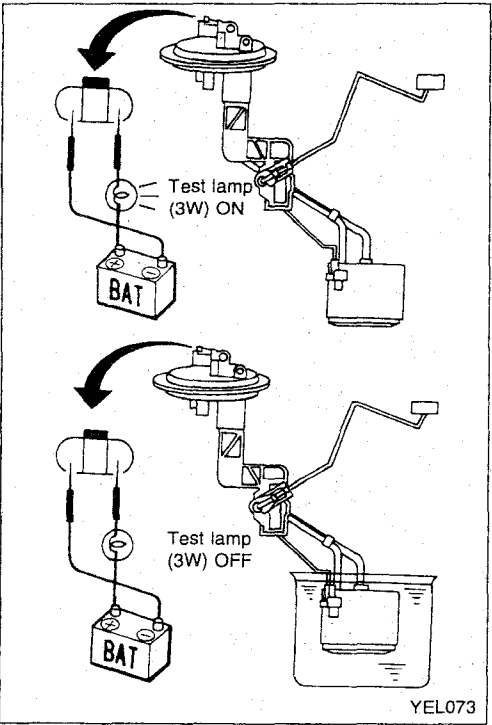
Ohmmeter		Float position mm (in)				Resistance value (Ω)
(+)	(-)			Hardtop models	Wagon models	
G	E	*3	Full	28 (1.10)	18 (0.71)	Approx. 0 - 7
		*2	1/2	168 (6.61)	126 (4.96)	92 - 112
		*1	Empty	274 (10.79)	210 (8.27)	240 - 320

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



Fuel Warning Lamp Sensor Check

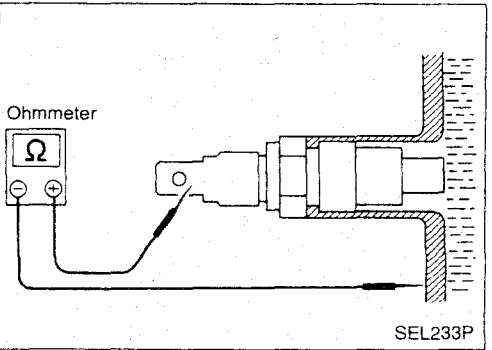
- It will take a short time for the bulb to light.

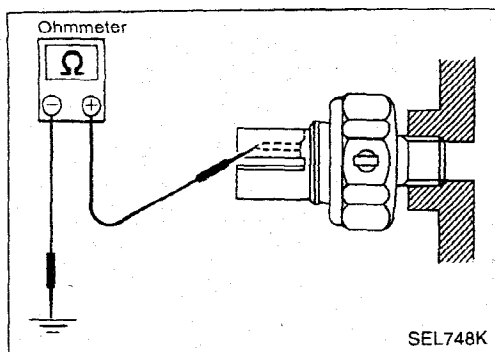


Thermal Transmitter Check

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

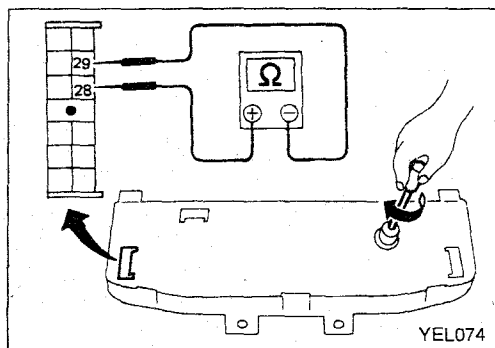




Oil Pressure Switch Check

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

	Oil pressure kPa (bar, kg/cm ² , 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



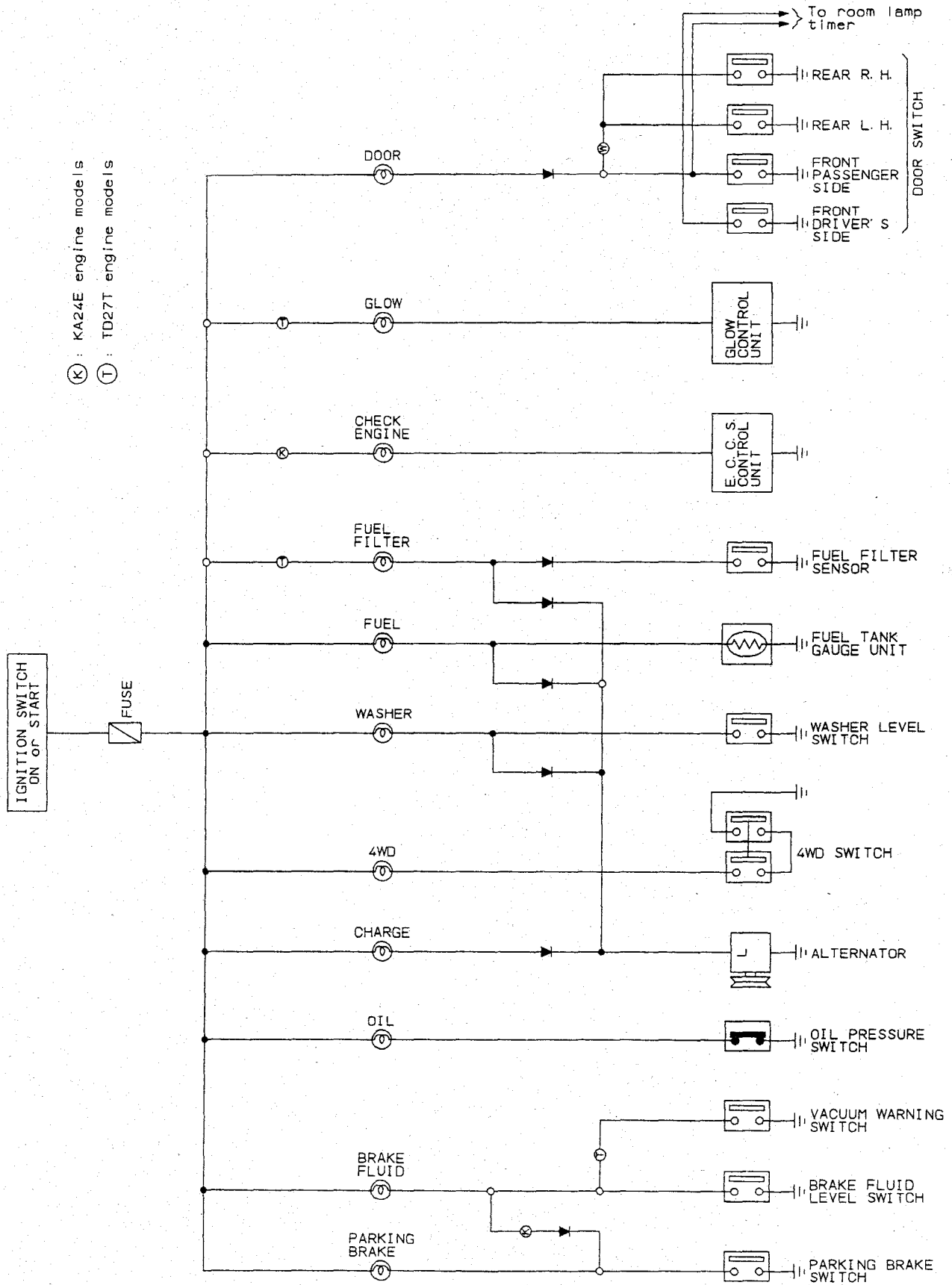
Speed Sensor Signal Check

- 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 AND CHIME

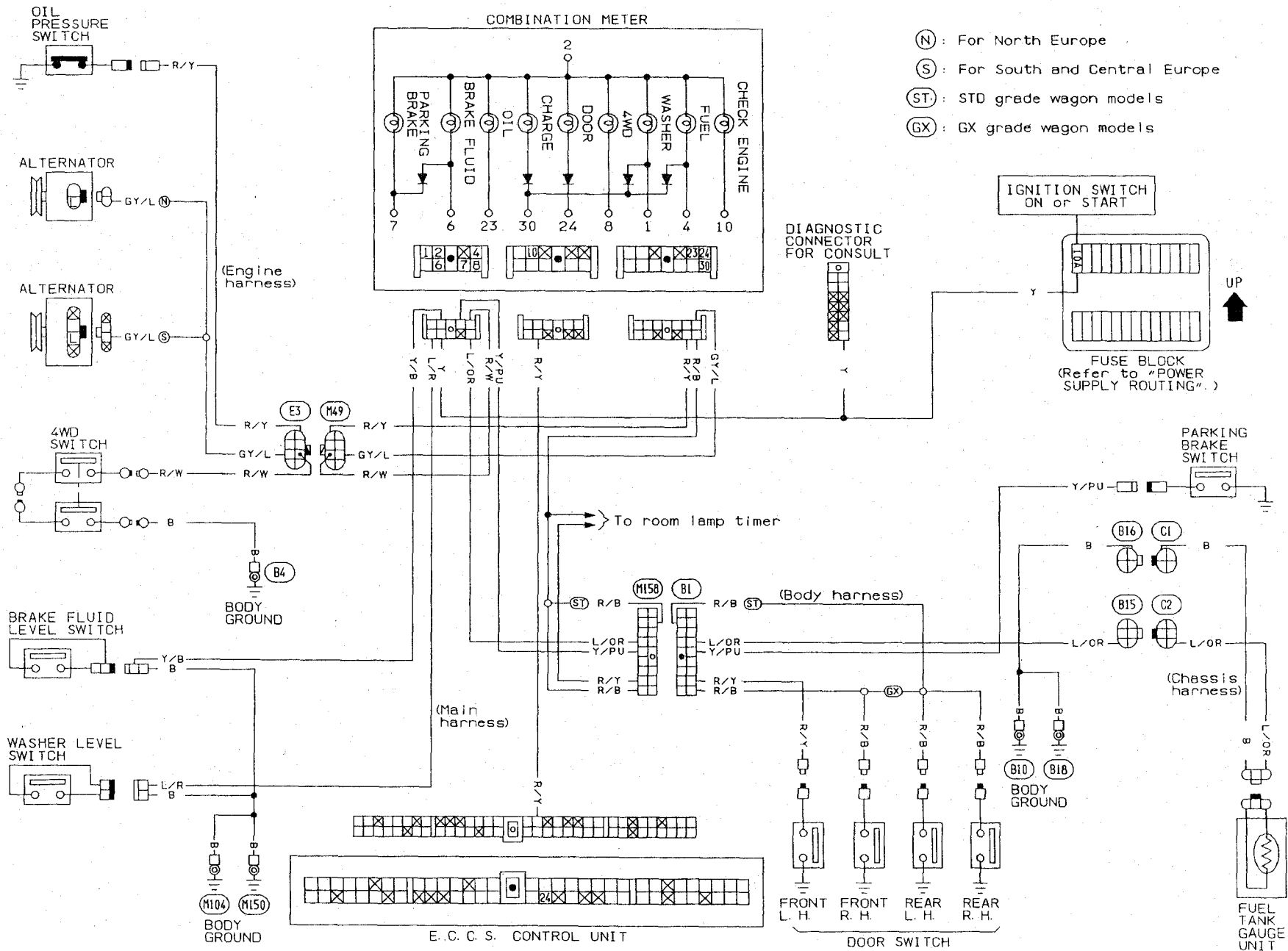
Warning Lamps/Schematic



Warning Lamps/Wiring Diagram

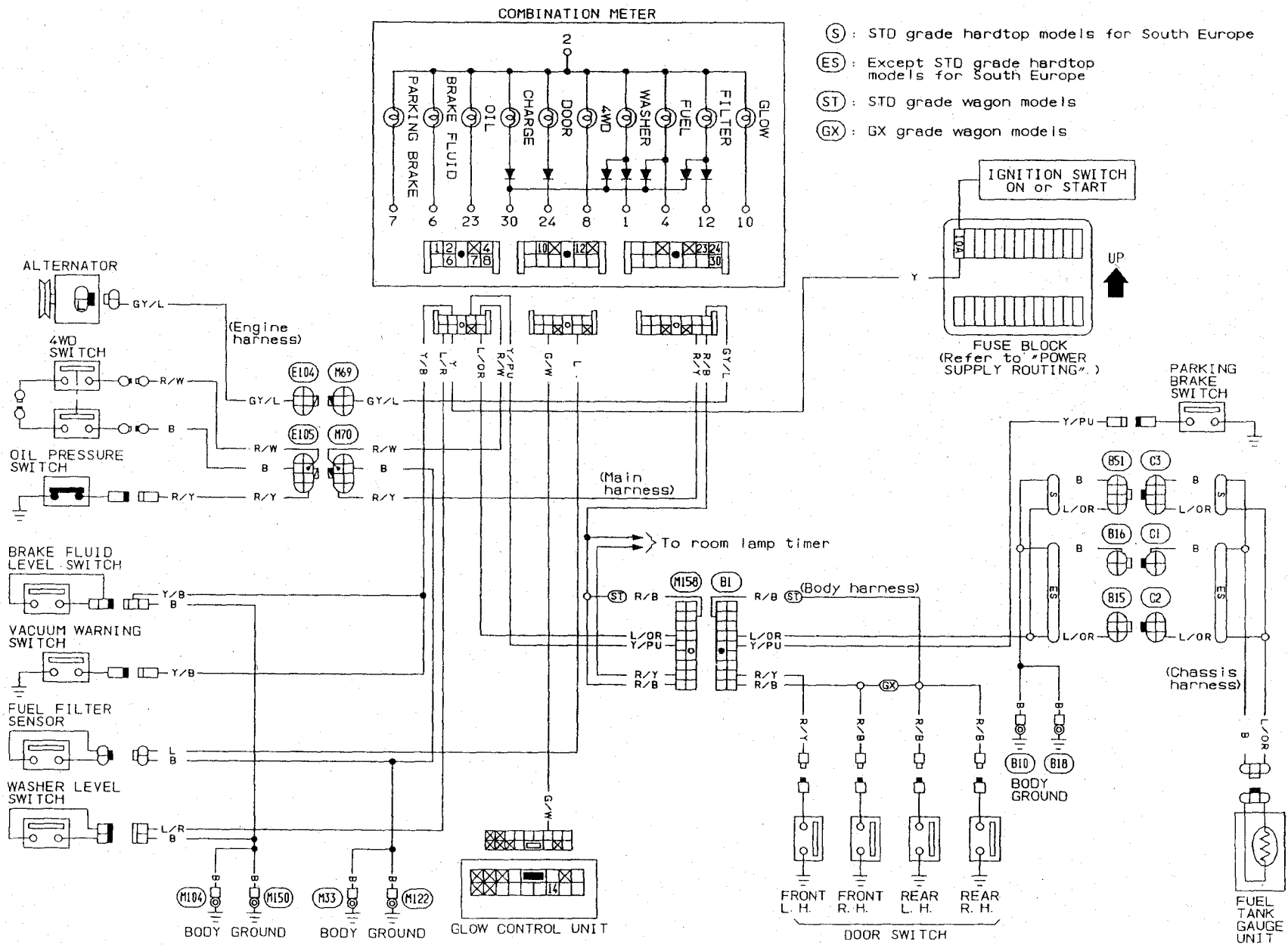
L.H.D. KA24E ENGINE MODELS

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



Warning Lamps/Wiring Diagram (Cont'd)

Warning Lamps/Wiring Diagram (Cont'd)

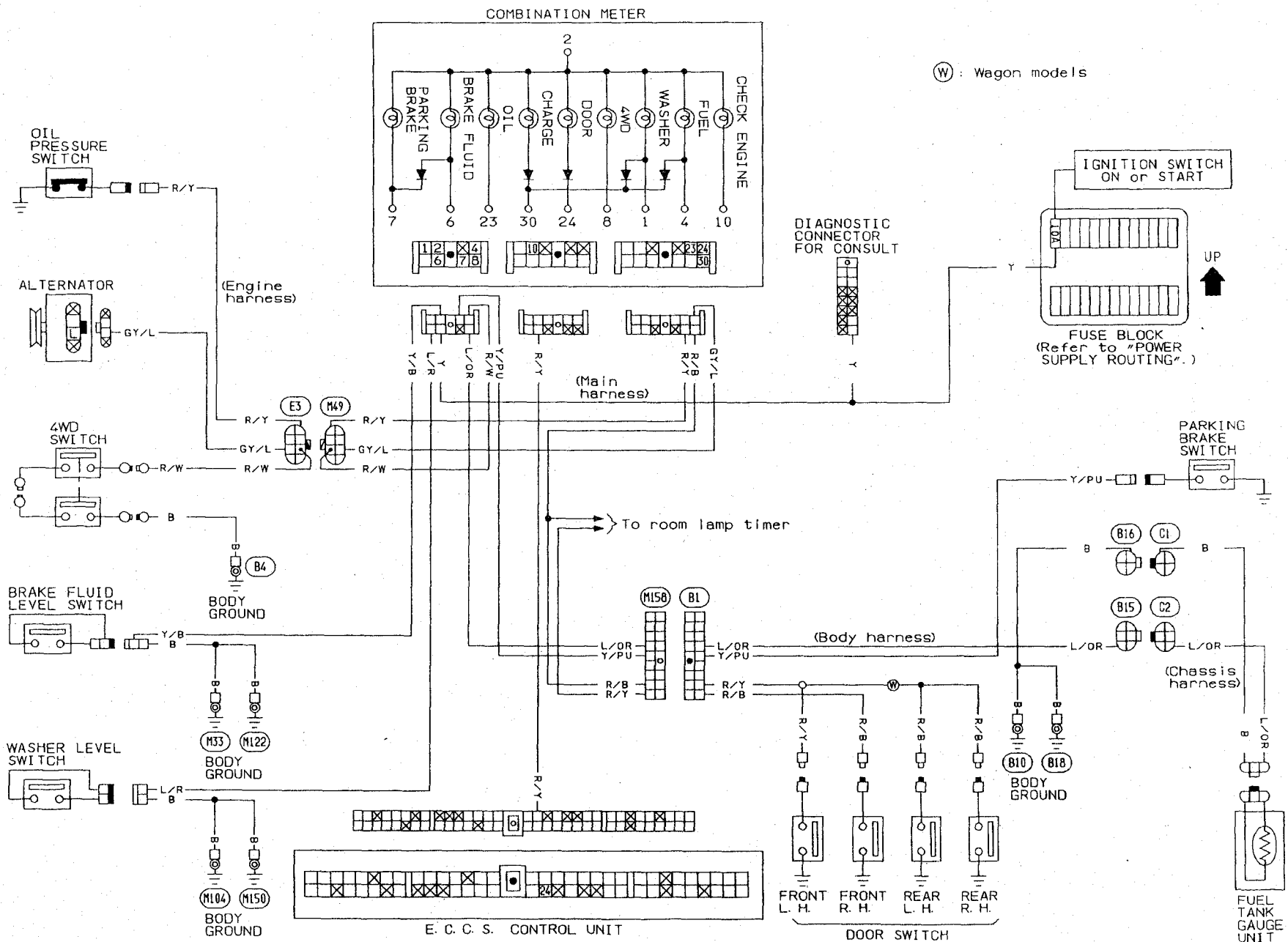


WARNING LAMPS AND CHIME

Warning Lamps/Wiring Diagram (Cont'd)

R.H.D. KA24E ENGINE MODELS

(W) : Wagon models



E. C. C. S. CONTROL UNIT

DOOR SWITCH

FUEL TANK GAUGE UNIT

(Chassis harness)

(Body harness)

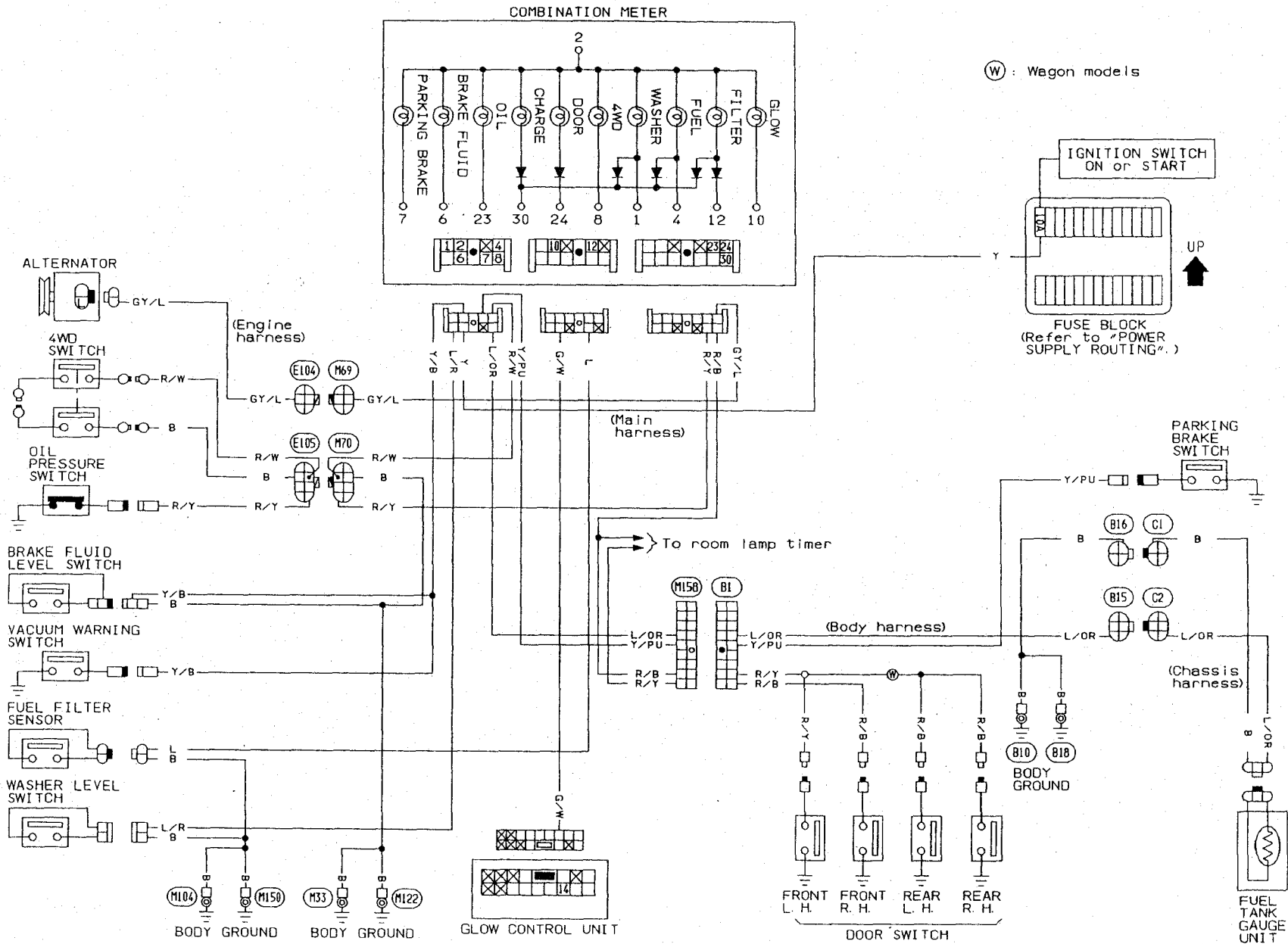
(Main harness)

(Engine harness)

WARNING LAMPS AND CHIME

Warning Lamps/Wiring Diagram (Cont'd)

R.H.D. TD27T ENGINE MODELS



EL-81

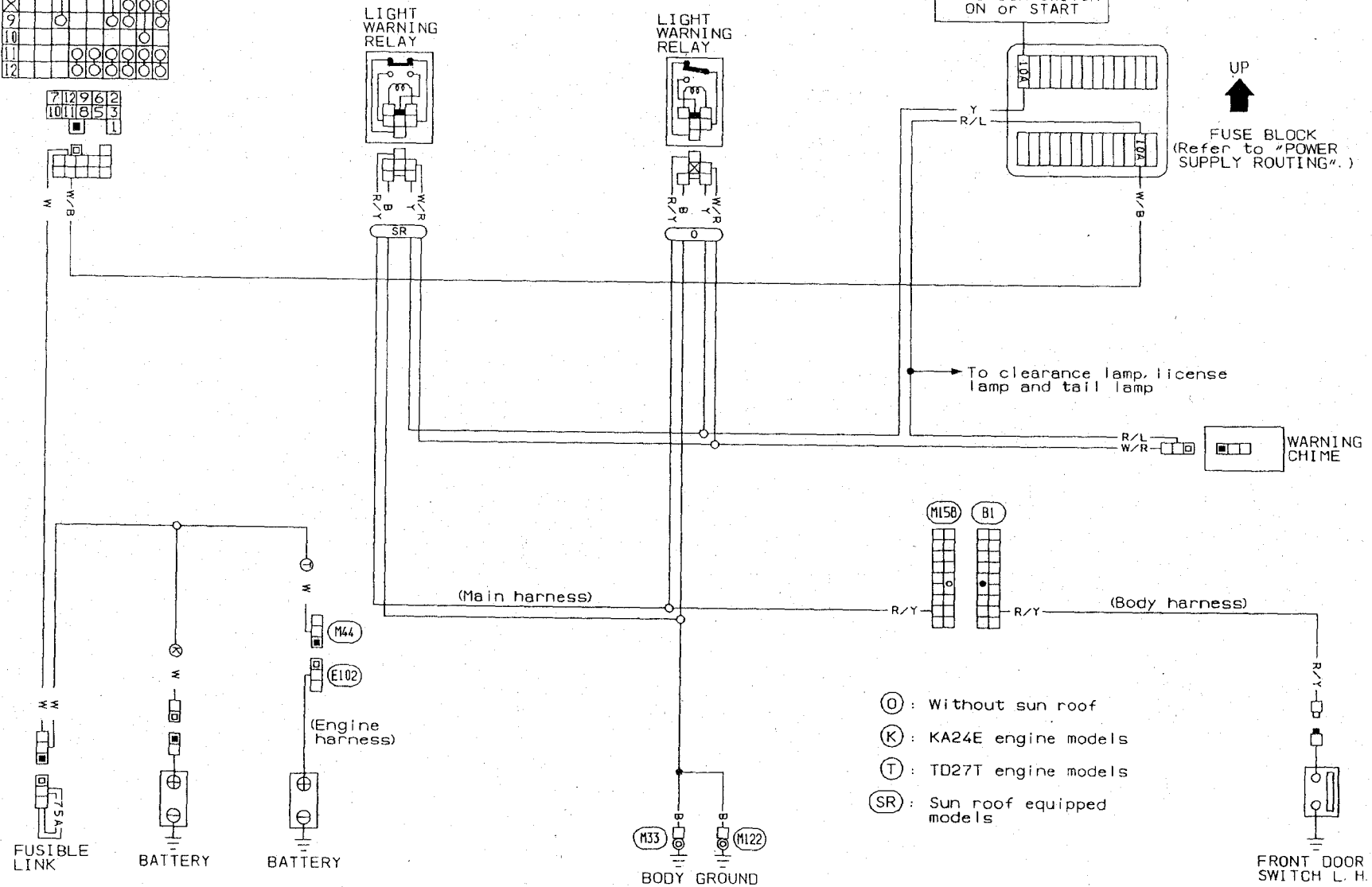
YE1052

WARNING LAMPS AND CHIME

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

LIGHTING SWITCH

	OFF			1ST			2ND		
	A	B	C	A	B	C	A	B	C
5									
5a									
6									
7									
8									
9	X								
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

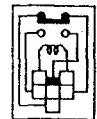
LIGHTING SWITCH

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

7 11 2 9 6 2
10 11 8 5 3

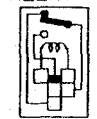
R/L
LG/R

LIGHT
WARNING
RELAY



W/R
Y
B/Y
SR

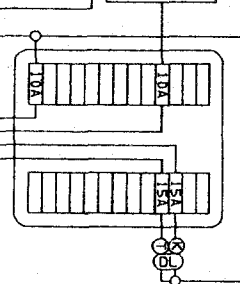
LIGHT
WARNING
RELAY



W/R
Y
B/Y
O

IGNITION SWITCH
ON or START

BATTERY

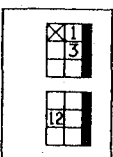


FUSE BLOCK
(Refer to "POWER
SUPPLY ROUTING".)

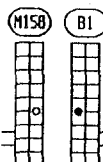
To clearance lamp, license
lamp and tail lamp

WARNING
CHIME

DAYTIME
LIGHT
CONTROL
UNIT



R/L
LG/R
B/W



(Body harness)

- (K) : KA24E engine models
- (T) : TD27T engine models
- (R) : R. H. D. models
- (DL) : L. H. D. models with
daytime light system
- (SR) : Sun roof equipped models
- (O) : Without sun roof

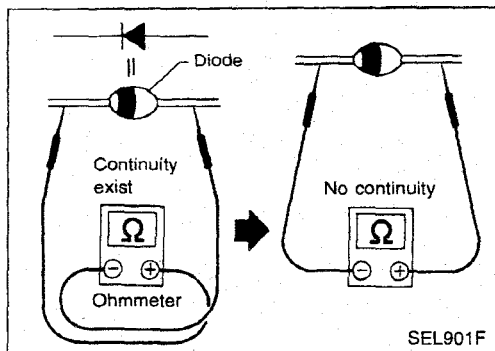
M33
BODY GROUND

FRONT DOOR
SWITCH R. H.

FRONT DOOR
SWITCH L. H.

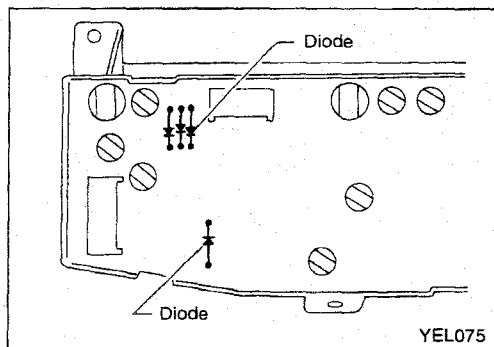
EL-83

YELO53



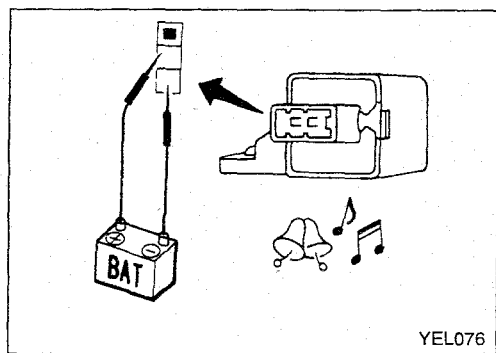
Diode Check

- 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".

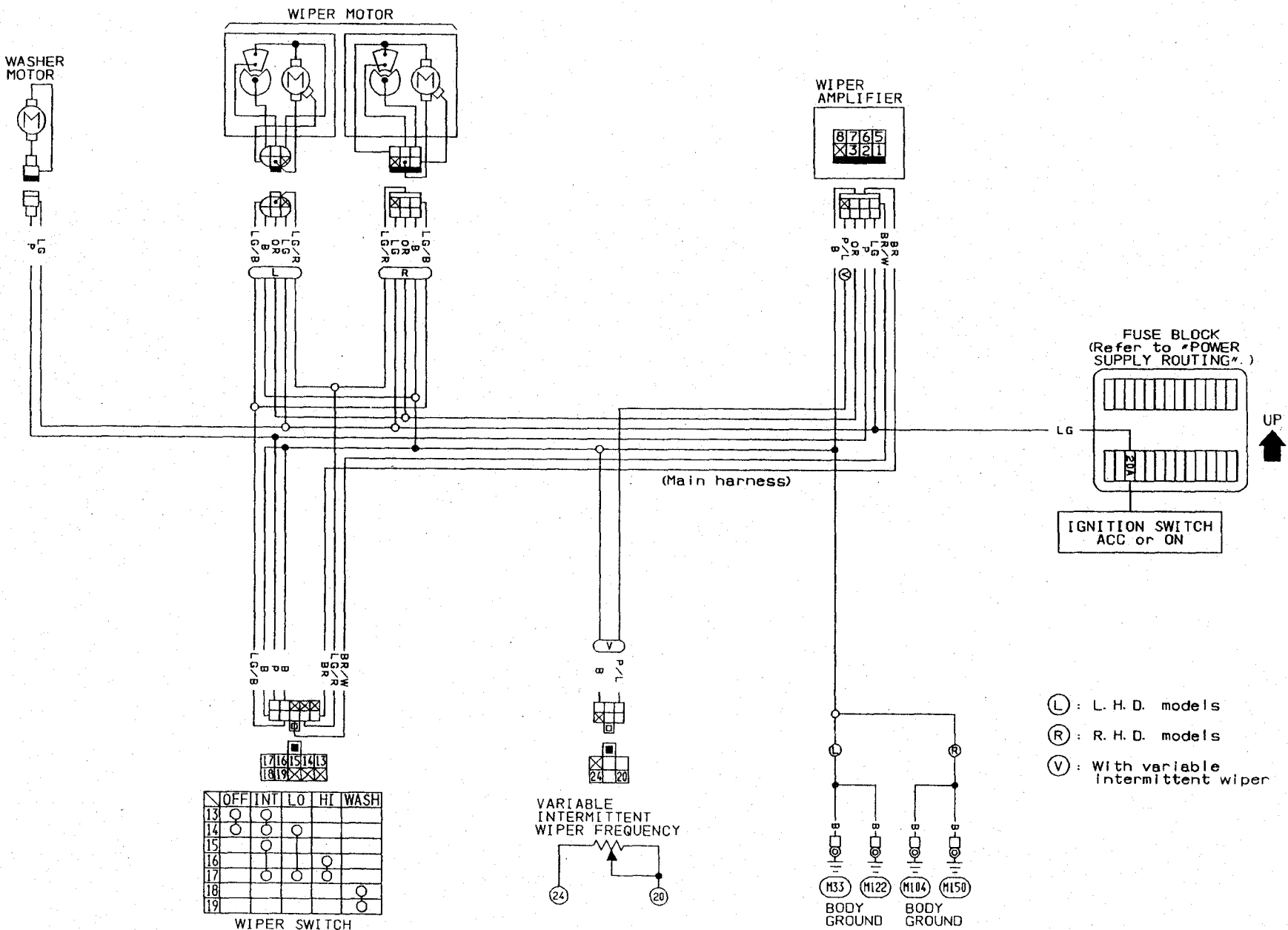


Warning Chime Check

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

WIPER AND WASHER

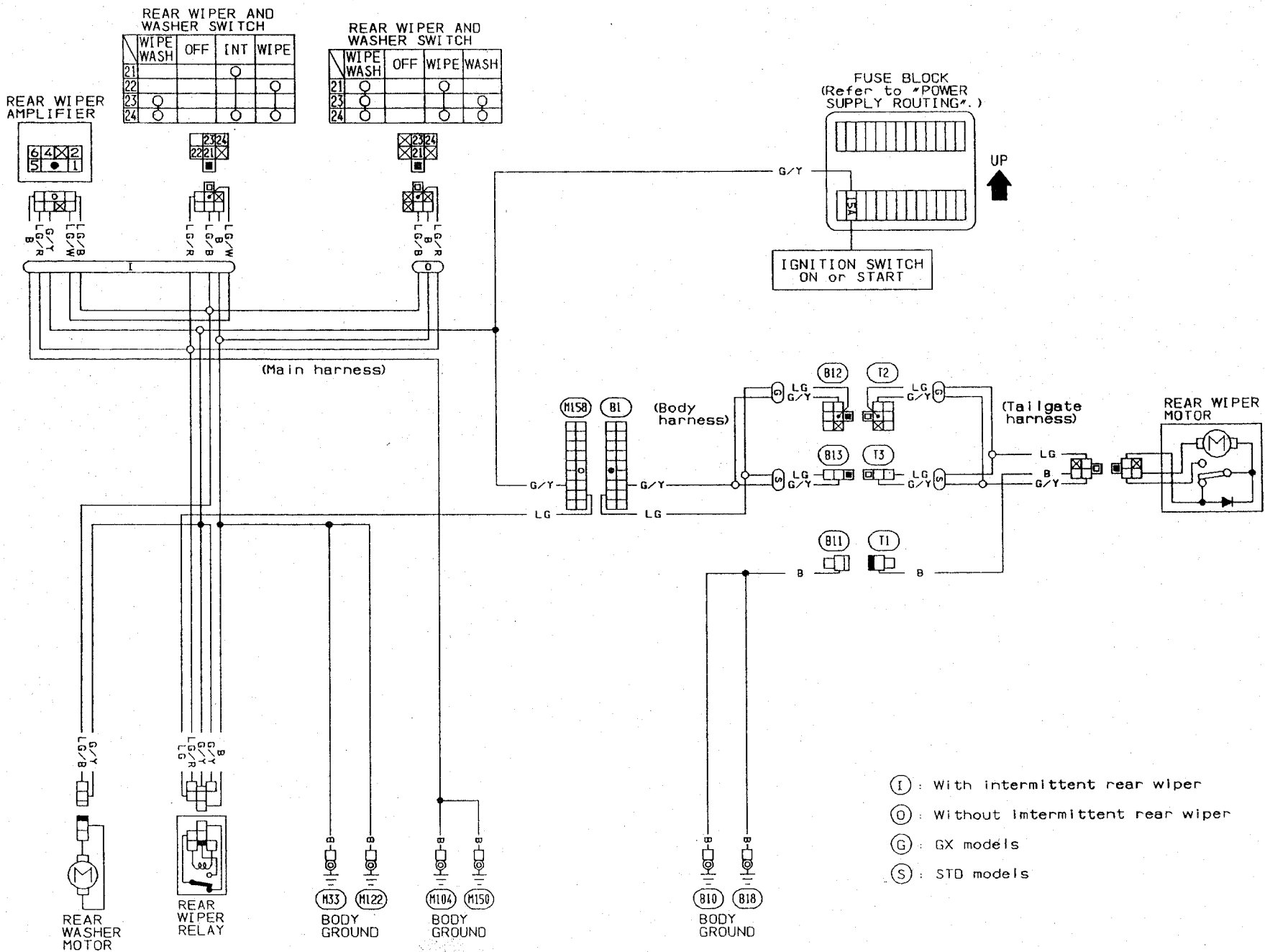
Front Wiper and Washer Wiring Diagram



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:

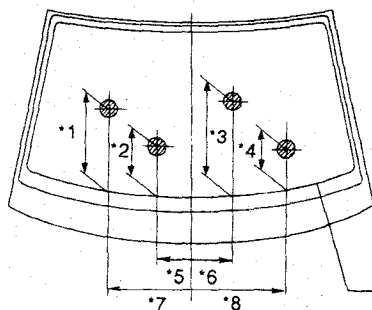
⌚: 17 - 23 N·m (1.7 - 2.3 kg·m, 12 - 17 ft·lb)

Rear wiper:

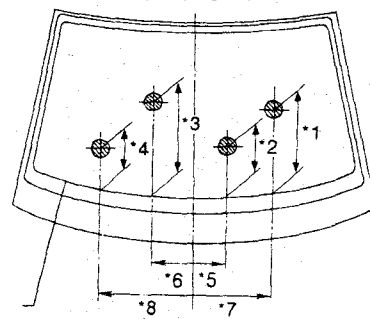
⌚: 13 - 18 N·m (1.3 - 1.8 kg·m, 9 - 13 ft·lb)

Front wiper and washer

L.H.D. models

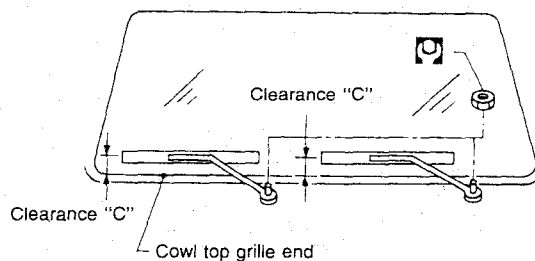


R.H.D. models



- *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)

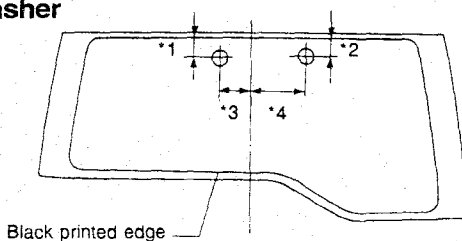
All the diameters of these circles are less than 80 (3.15).



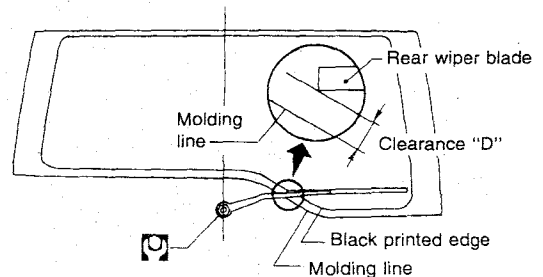
YEL077

Rear wiper and washer

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



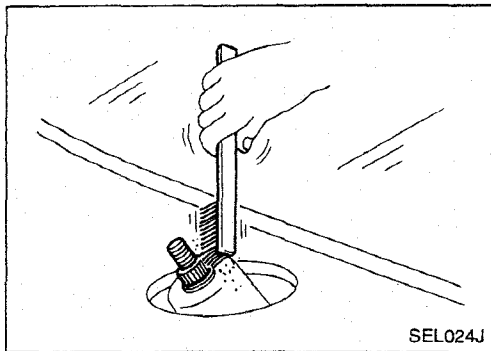
All the diameters of these circles are less than 50 (1.97).



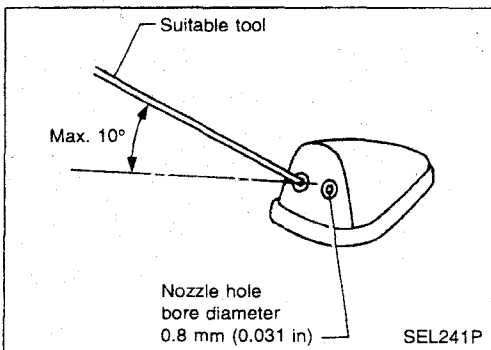
YEL078

WIPER AND WASHER

Installation (Cont'd)



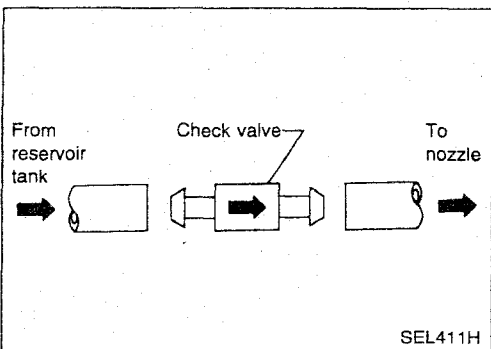
- Before reinstalling wiper arm, clean up the pivot area as illustrated. This will reduce possibility of wiper arm looseness.



Washer Nozzle Adjustment

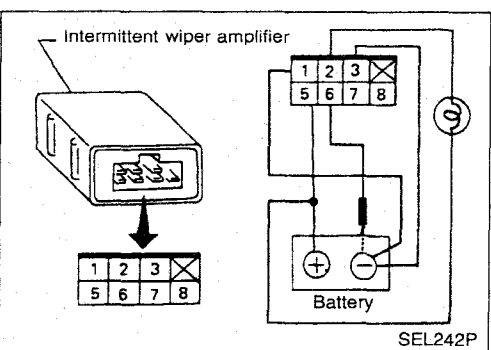
- Adjust washer nozzle with suitable tool as shown in the figure at left.

Adjustable range: $\pm 10^\circ$



Check Valve

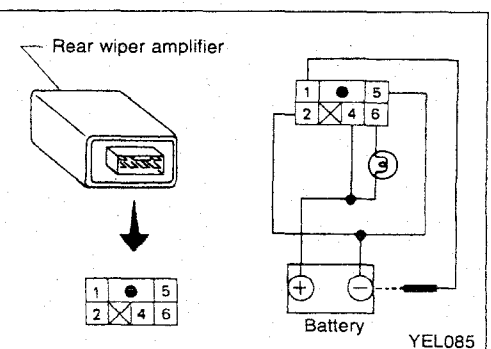
- A check valve is provided in the washer fluid line. Be careful not to connect check valve to washer tube in the wrong direction.



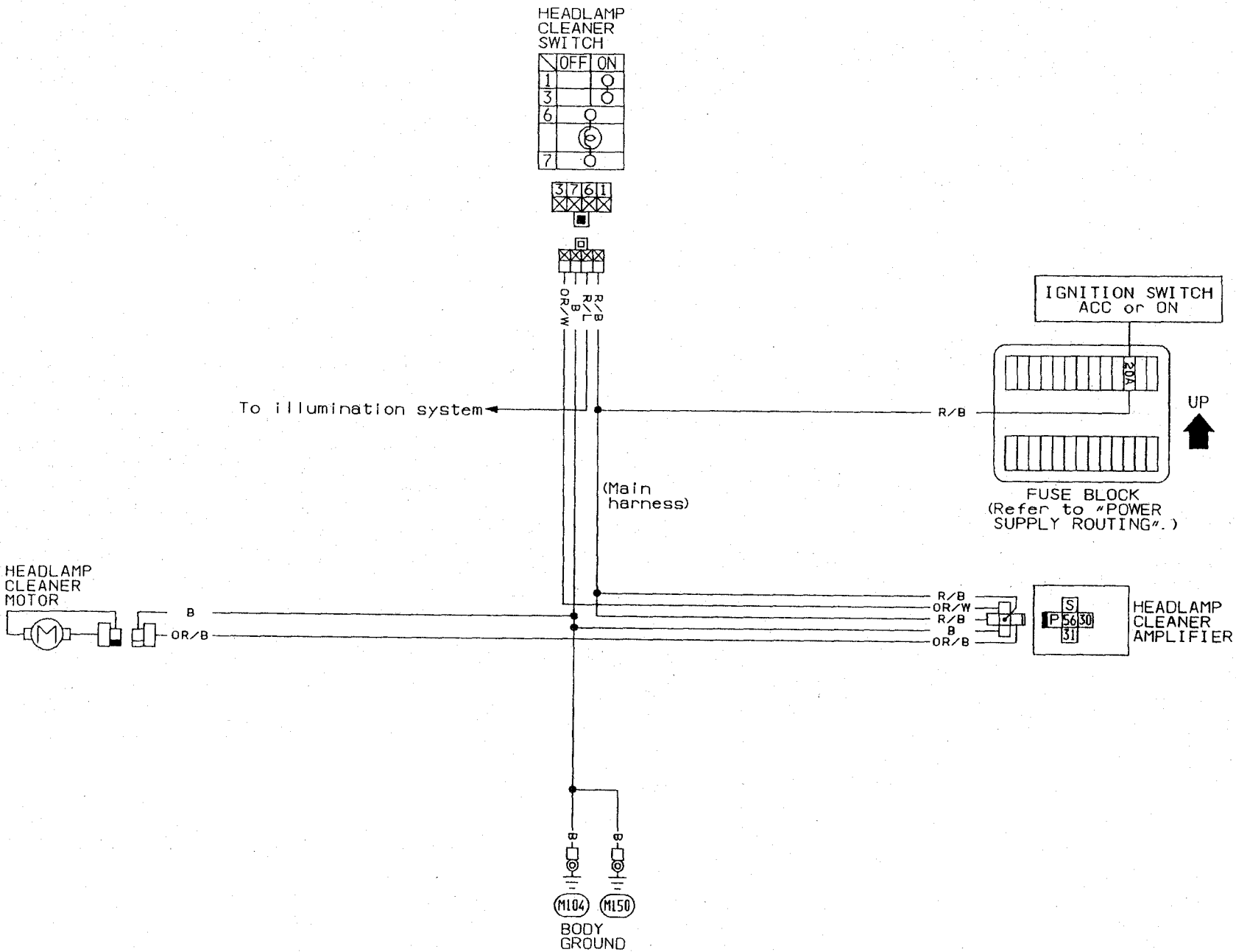
Wiper Amplifier Check

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.

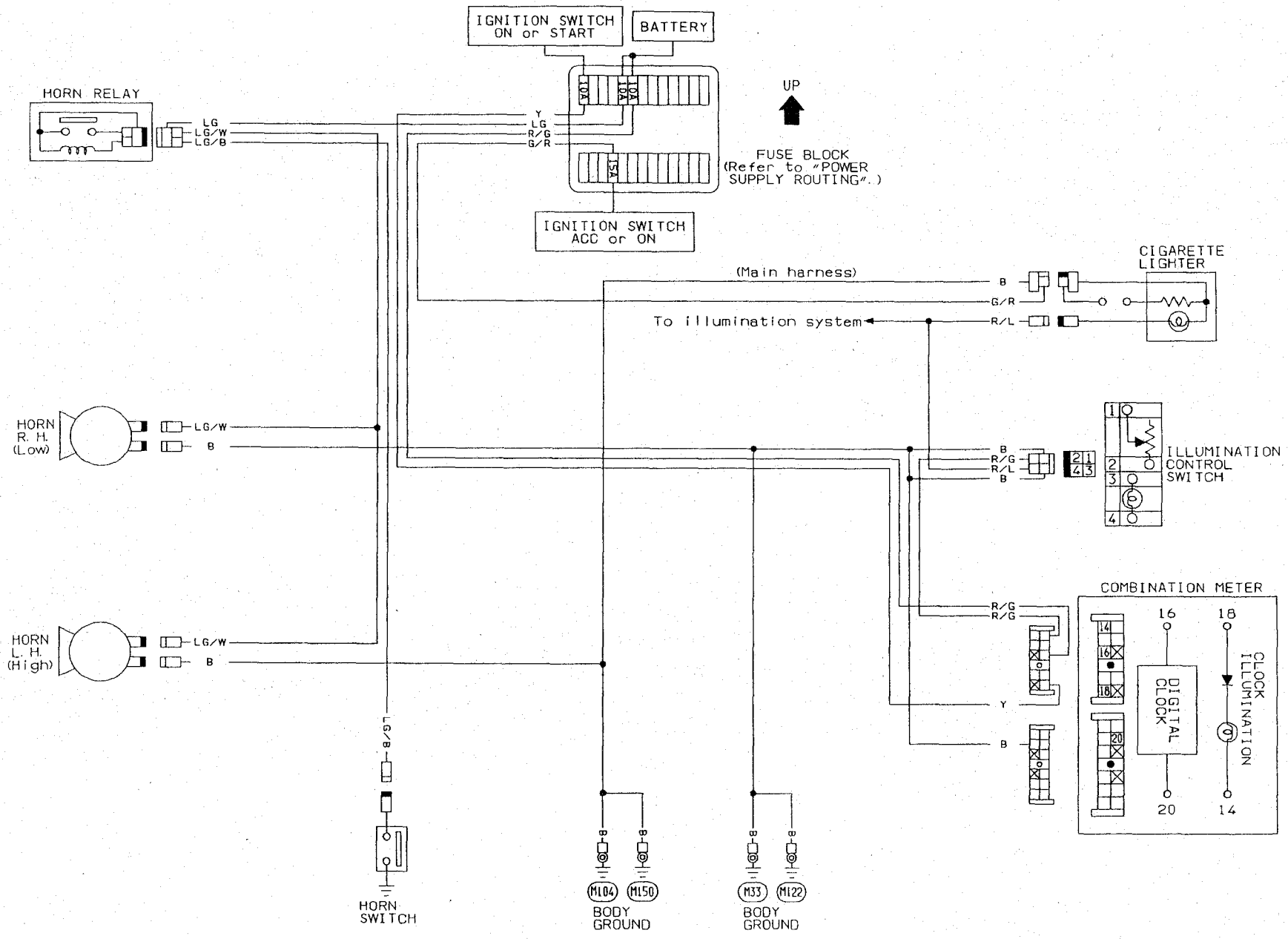


Headlamp Washer/Wiring Diagram



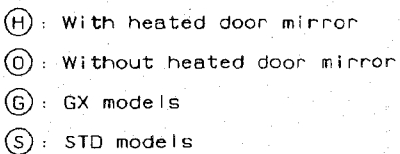
HORN, CIGARETTE LIGHTER AND CLOCK

Wiring Diagram



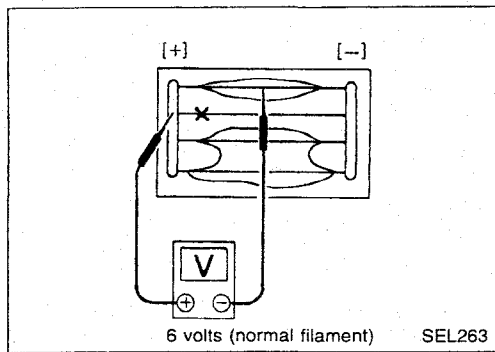
EL-90

Wiring Diagram



YEL061

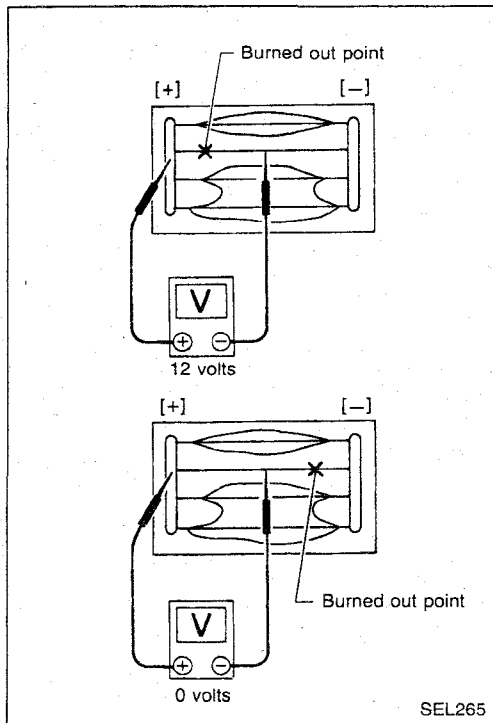
REAR WINDOW DEFOGGER



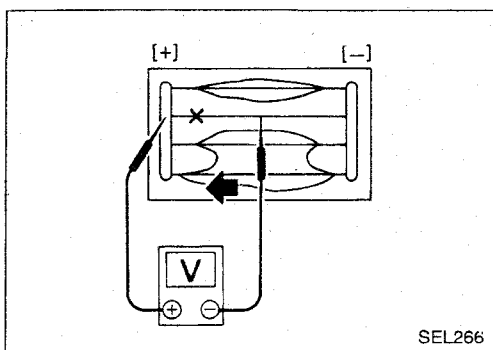
Filament Check

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

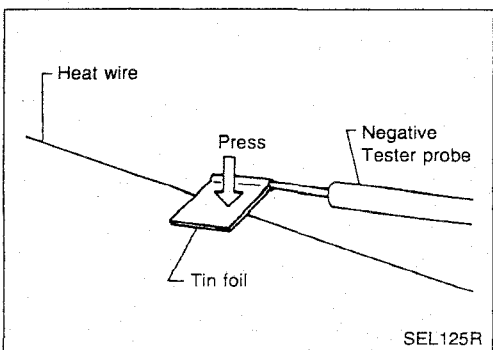
6 volts = Normal filament



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



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



- 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.

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

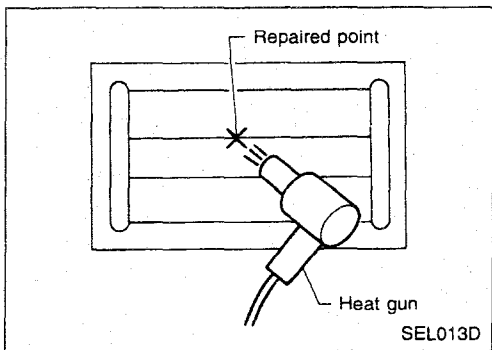
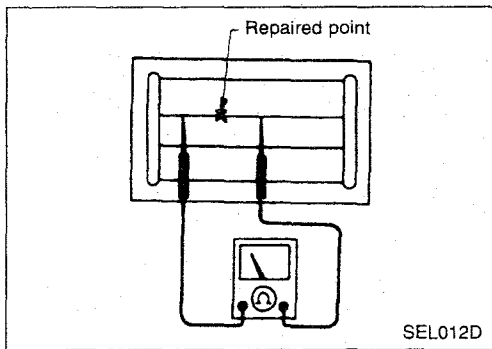
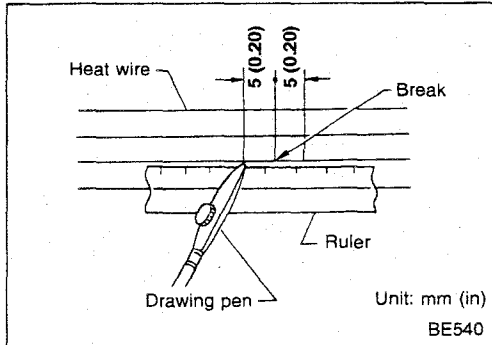
1. Wipe broken heat wire and its surrounding area clean with a cloth dampened in alcohol.
2. Apply a small amount of conductive silver composition to tip of drawing pen.

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.

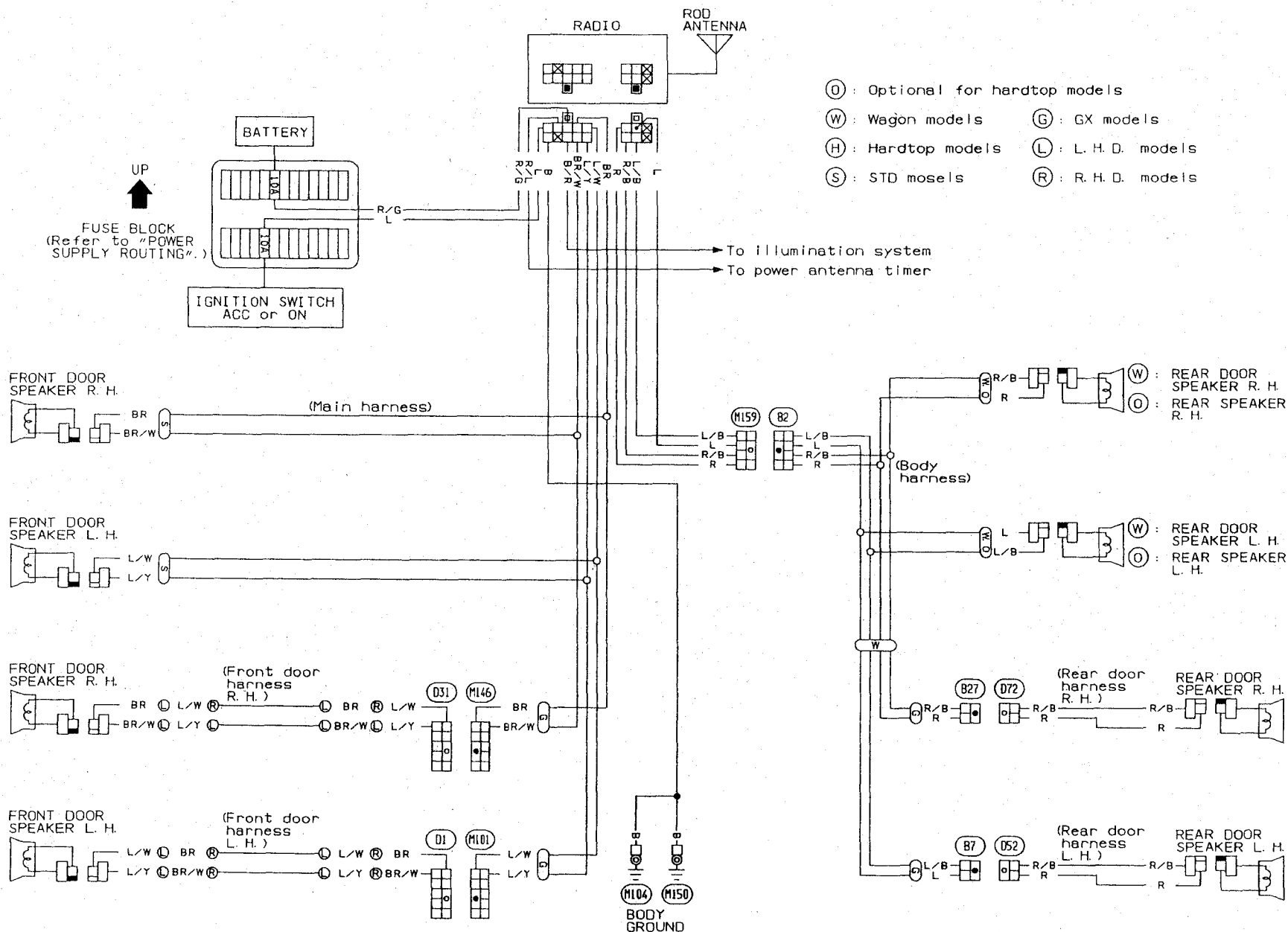
Do not touch repaired area while test is being conducted.

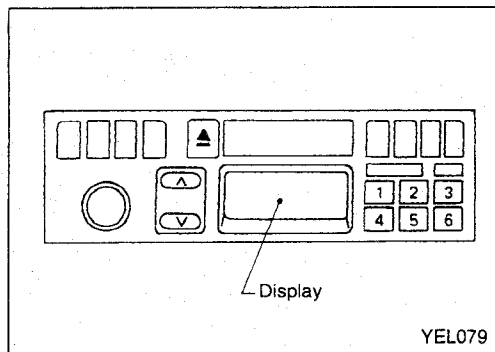


5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.

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



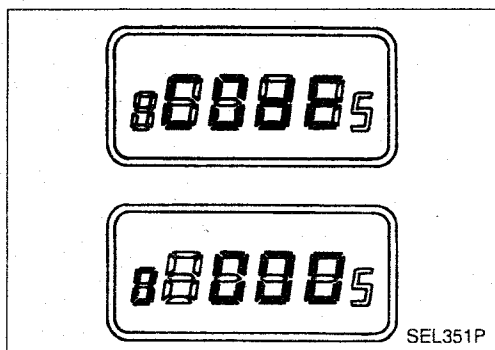


Radio

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.

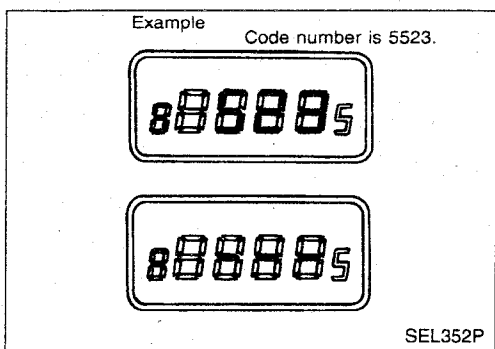
If however, someone attempts to remove the unit or the ground cable is disconnected from the battery, the Anti-theft system activates and the unit "locks". The only way it can be unlocked is by entering a personal code number known only by the owner.



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.

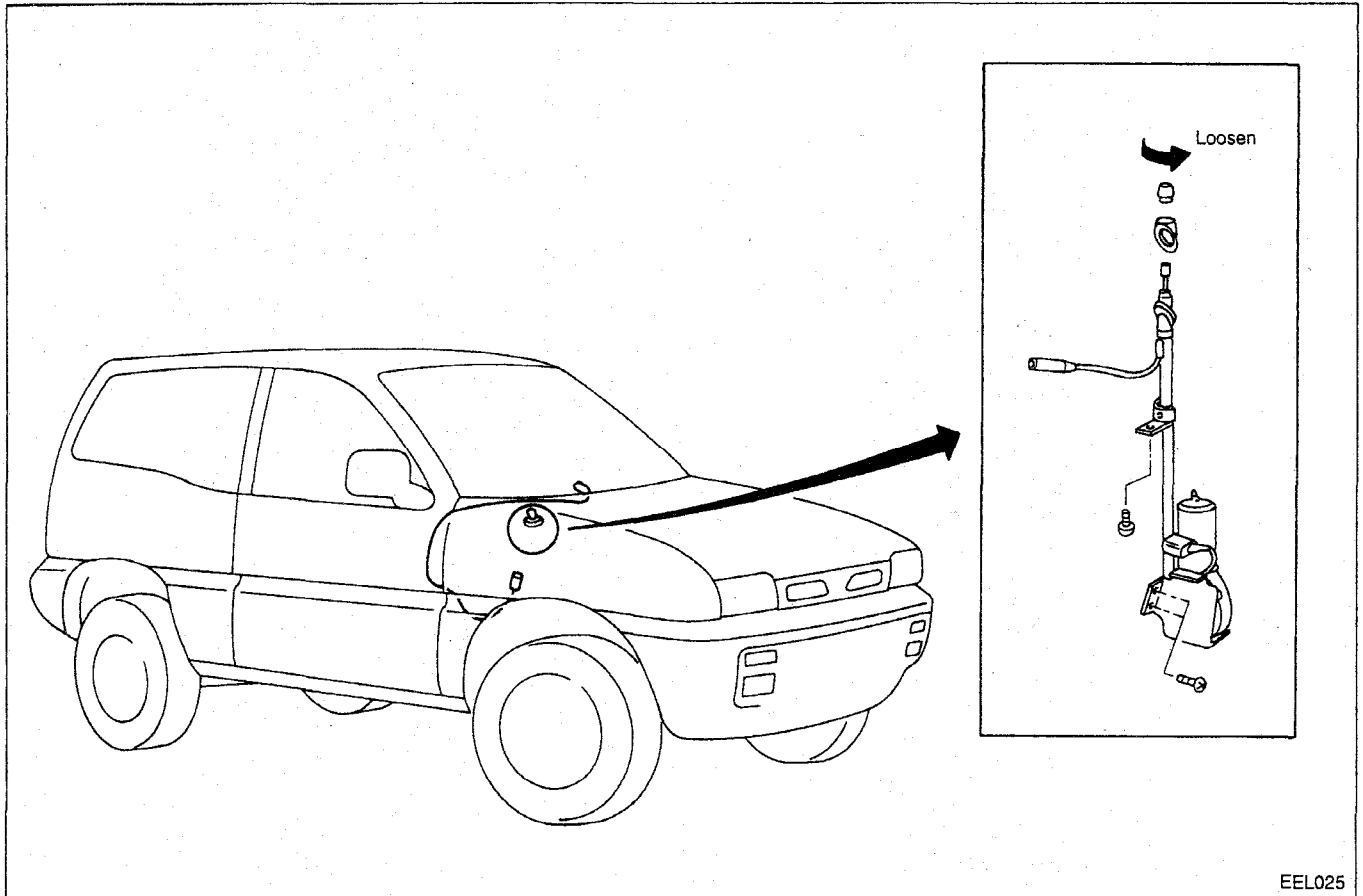
Unit is unlocked and the radio/cassette will operate.

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

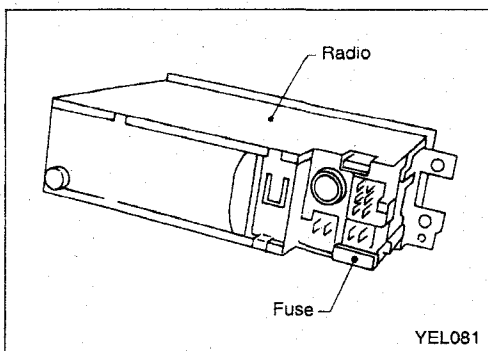
CAUTION:

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

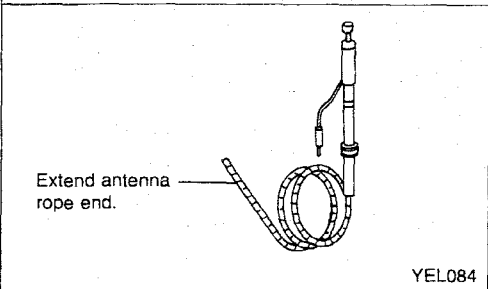
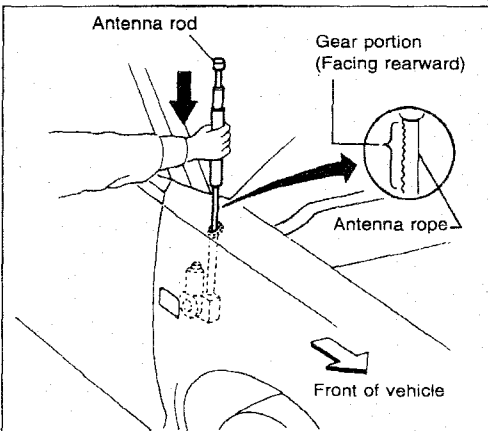
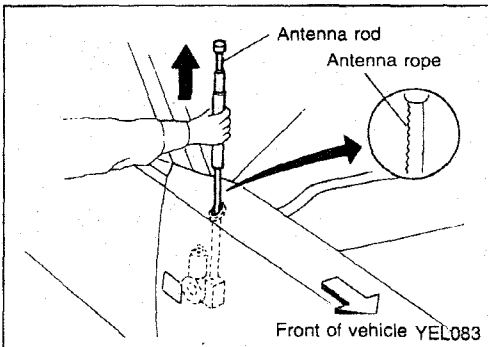
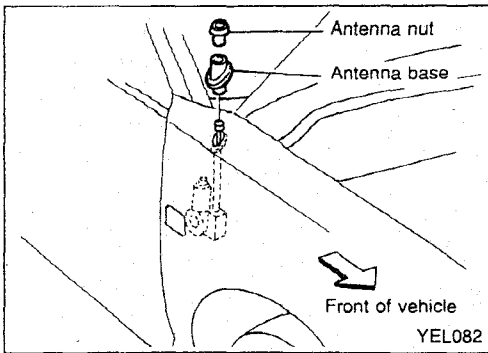
Power Antenna/Wiring Diagram



Antenna Rod Replacement

REMOVAL

1. Remove antenna nut and antenna base.
2. Withdraw antenna rod while raising it by operating antenna motor.

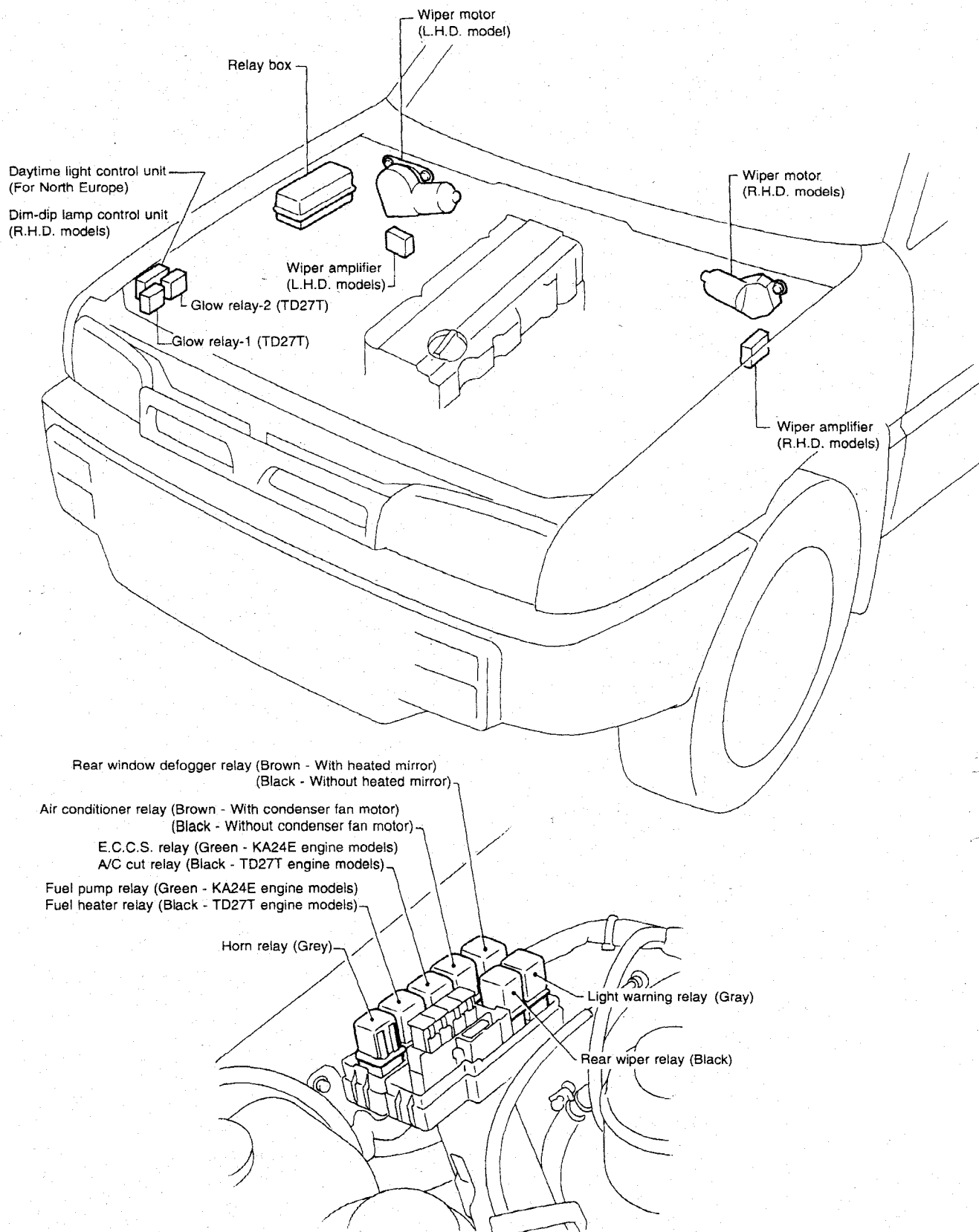


INSTALLATION

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

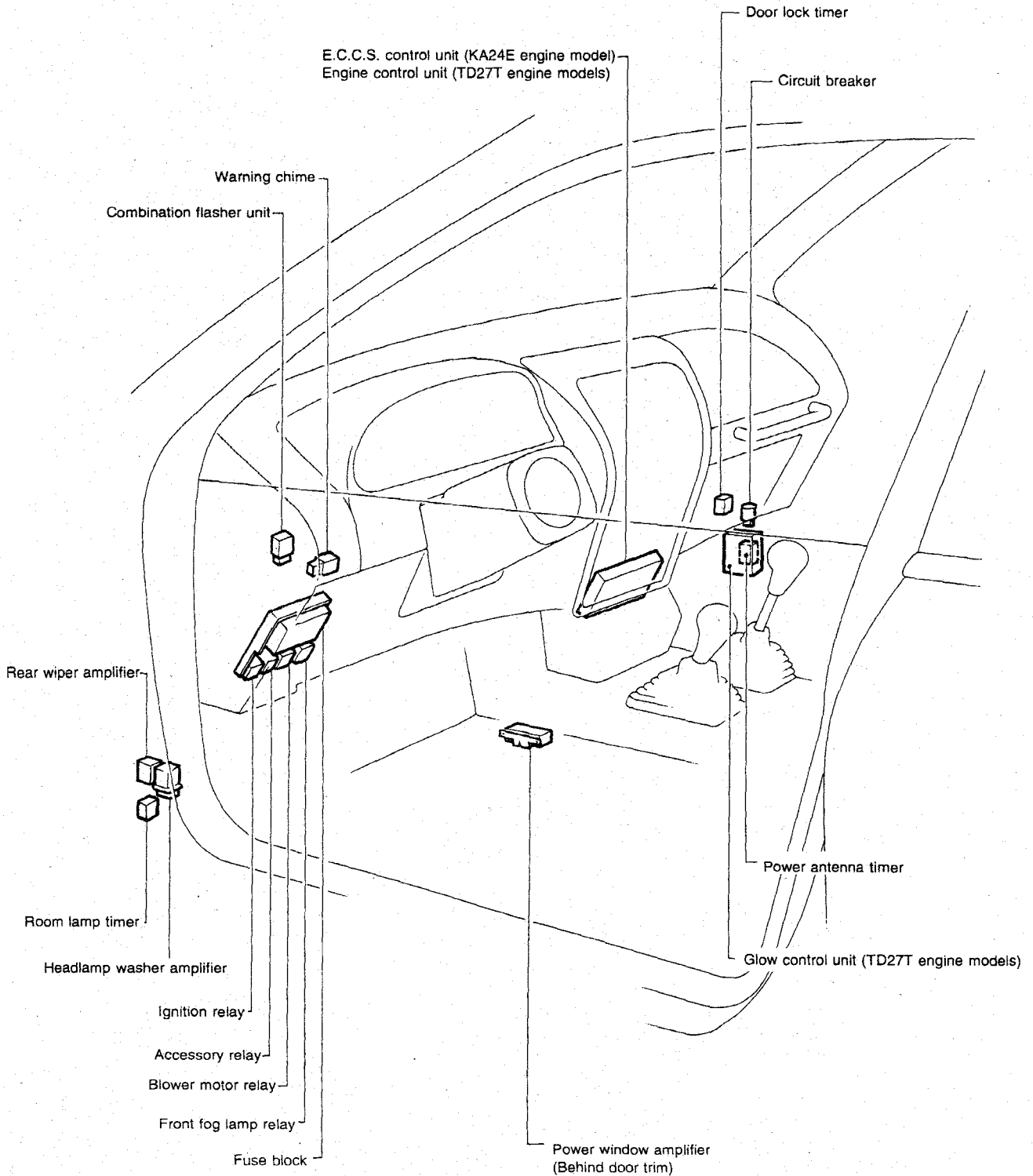
Engine Compartment



LOCATION OF ELECTRICAL UNITS

Passenger Compartment

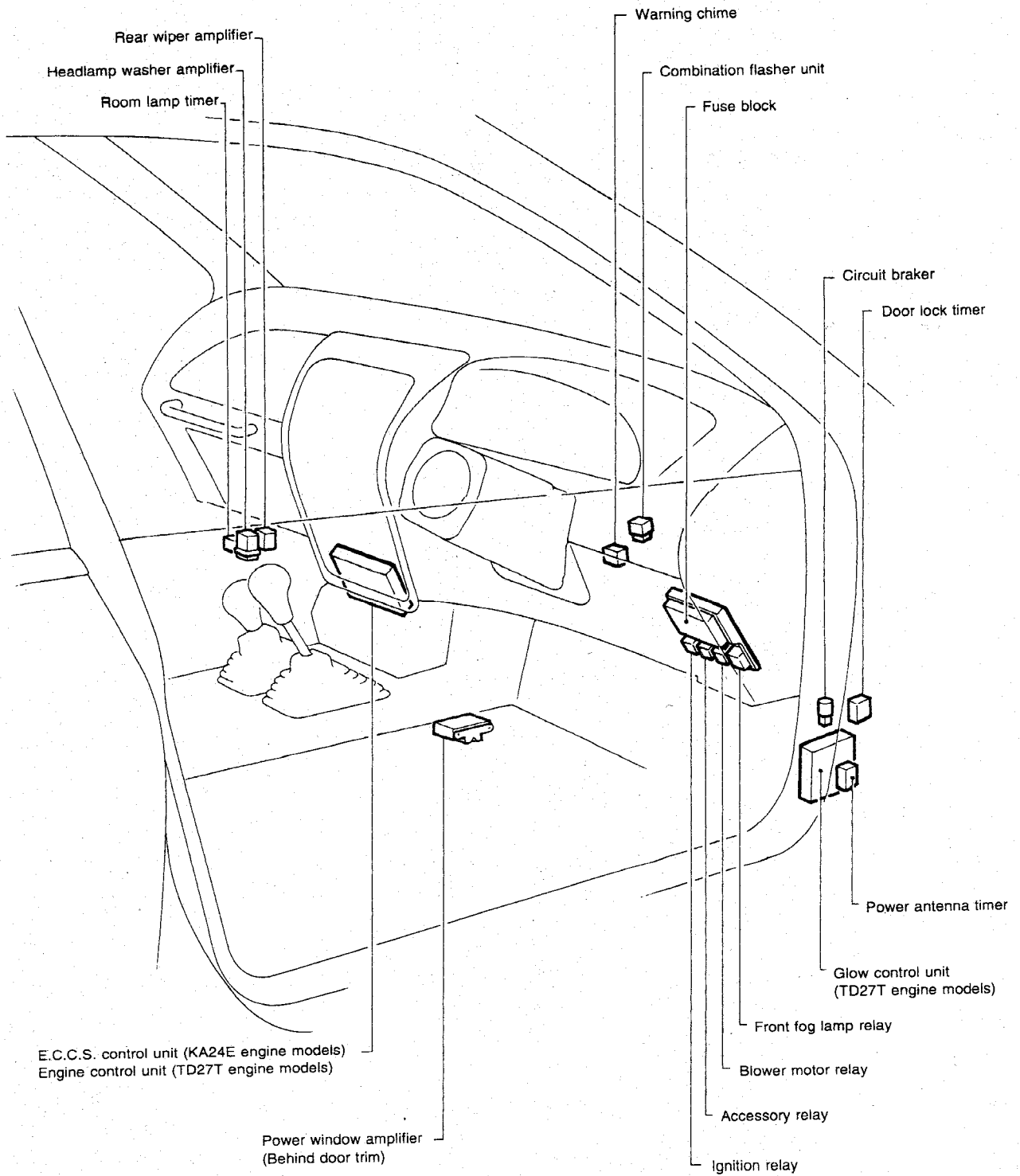
L.H.D. MODELS



LOCATION OF ELECTRICAL UNITS

Passenger Compartment (Cont'd)

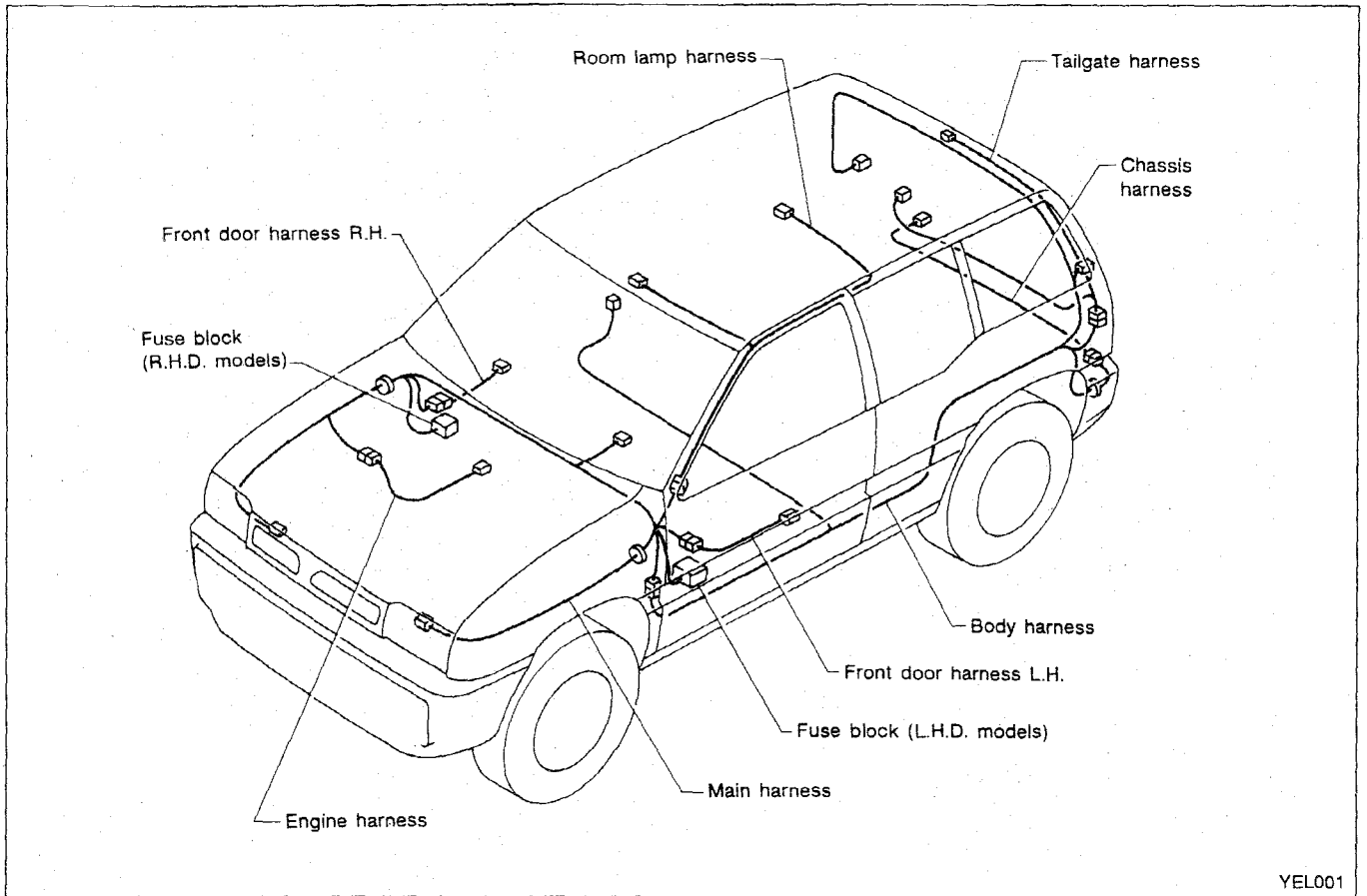
R.H.D. MODELS



HARNESS LAYOUT

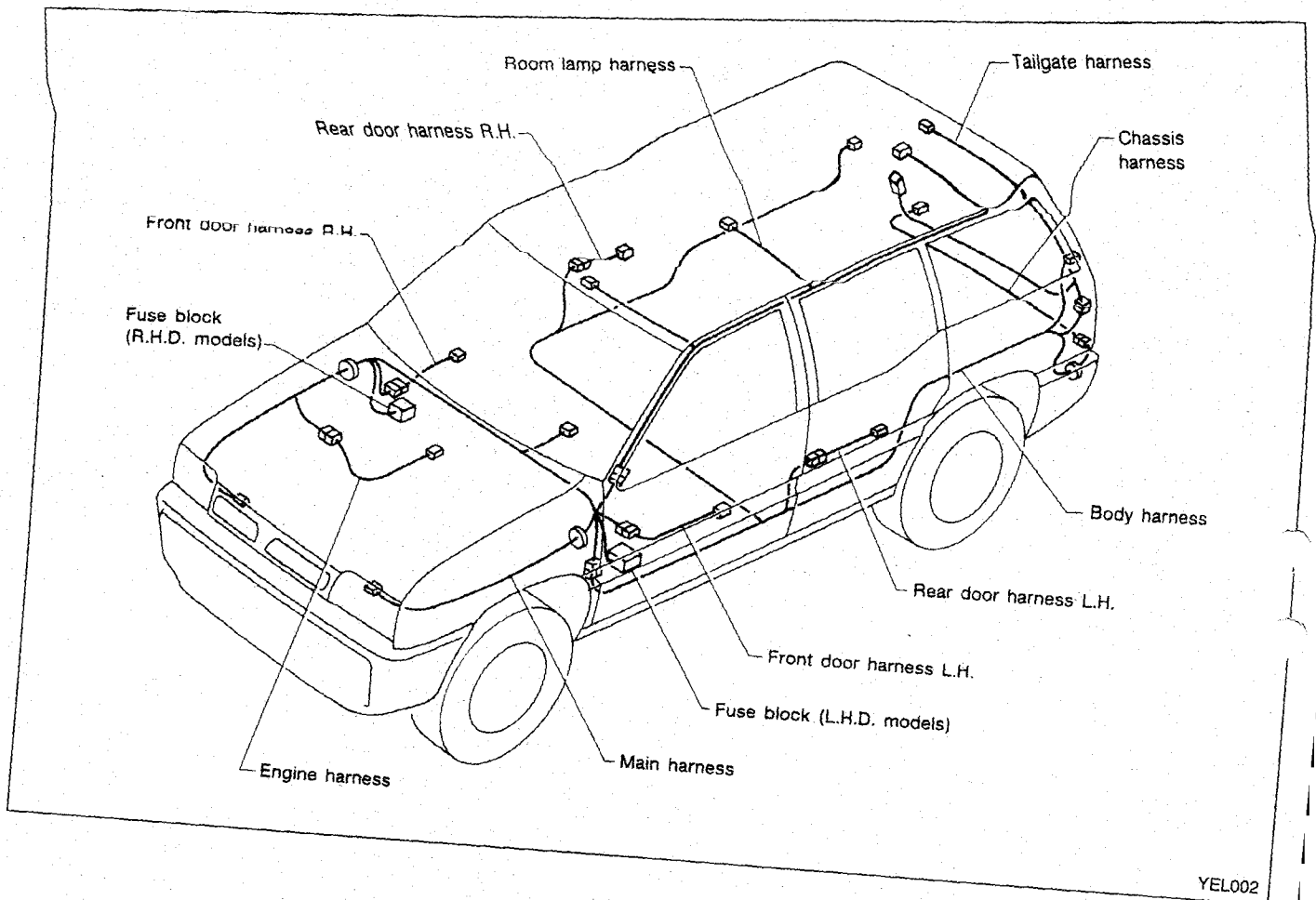
Outline

HARDTOP MODELS



HARNESS LAYOUT Outline (Cont'd)

WAGON MODELS

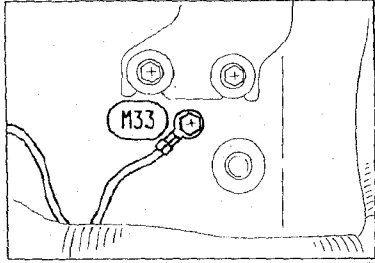


HARNES LAYOUT

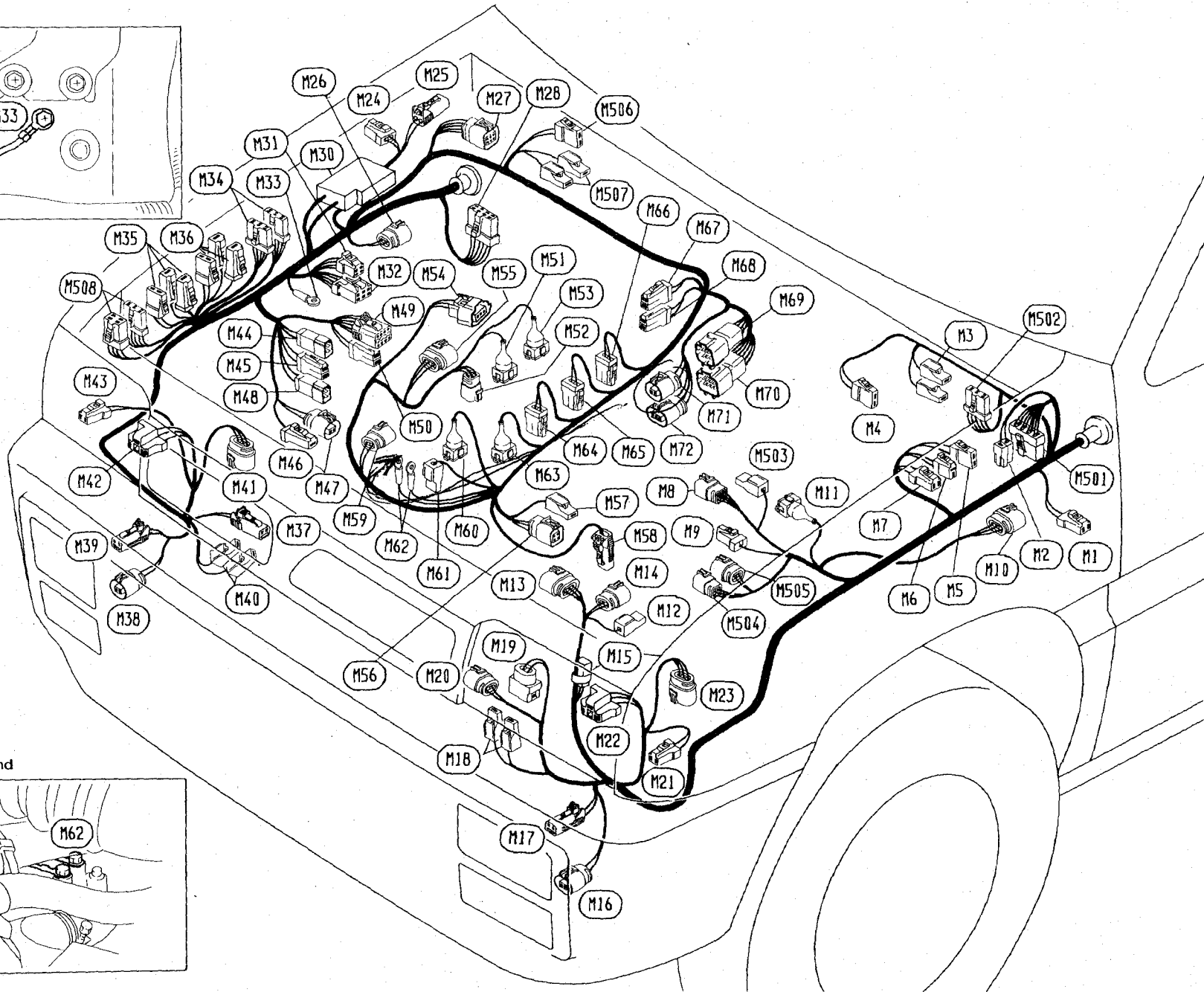
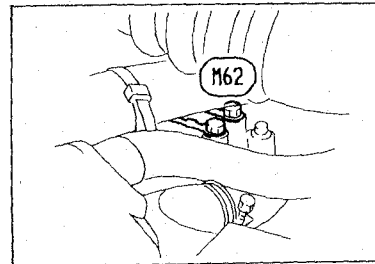
ENGINE COMPARTMENT

Main Harness

Body ground



Engine ground



EL-104

EL-105

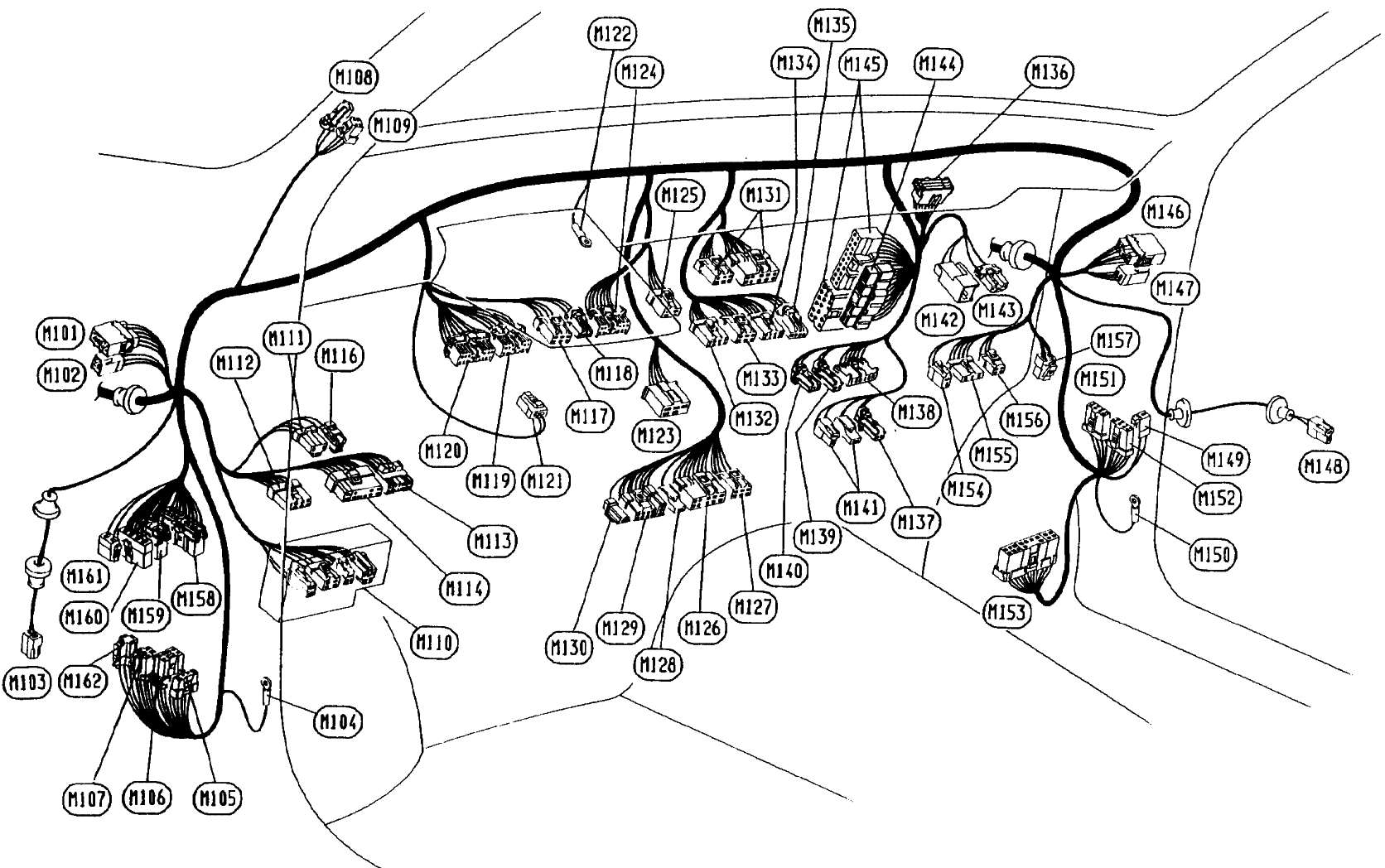
- M1 : Indicatore di direzione laterale sinistro
- M2 : Motore lavaproiettori
- M3 : Elettrovalvola F.I.C.D. (Modelli con guida a destra con motore TD27T)
- M4 : Interruttore livello fluido freni (Modelli con guida a sinistra)
- M5 : Motore lavalunotto
- M6 : Motore lavaparabrezza
- M7 : Interruttore 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. }
- M12 : Massa bobina } (Modelli con motore KA24E)
- 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 E182 } (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)

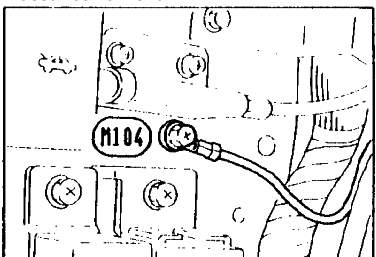
DISPOSIZIONE CABLAGGI

Cablaggio Principale (Continuazione)

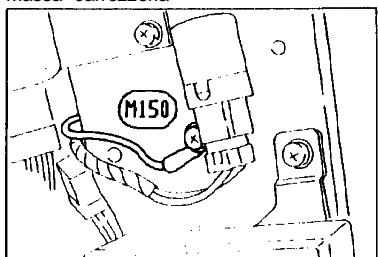
ABITACOLO MODELLI CON GUIDA A SINISTRA



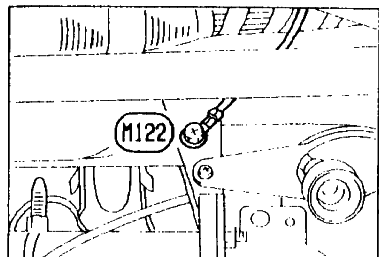
Massa carrozzeria



Massa carrozzeria



Massa carrozzeria



DISPOSIZIONE CABLAGGIO

Cablaggio Principale (Continuazione)

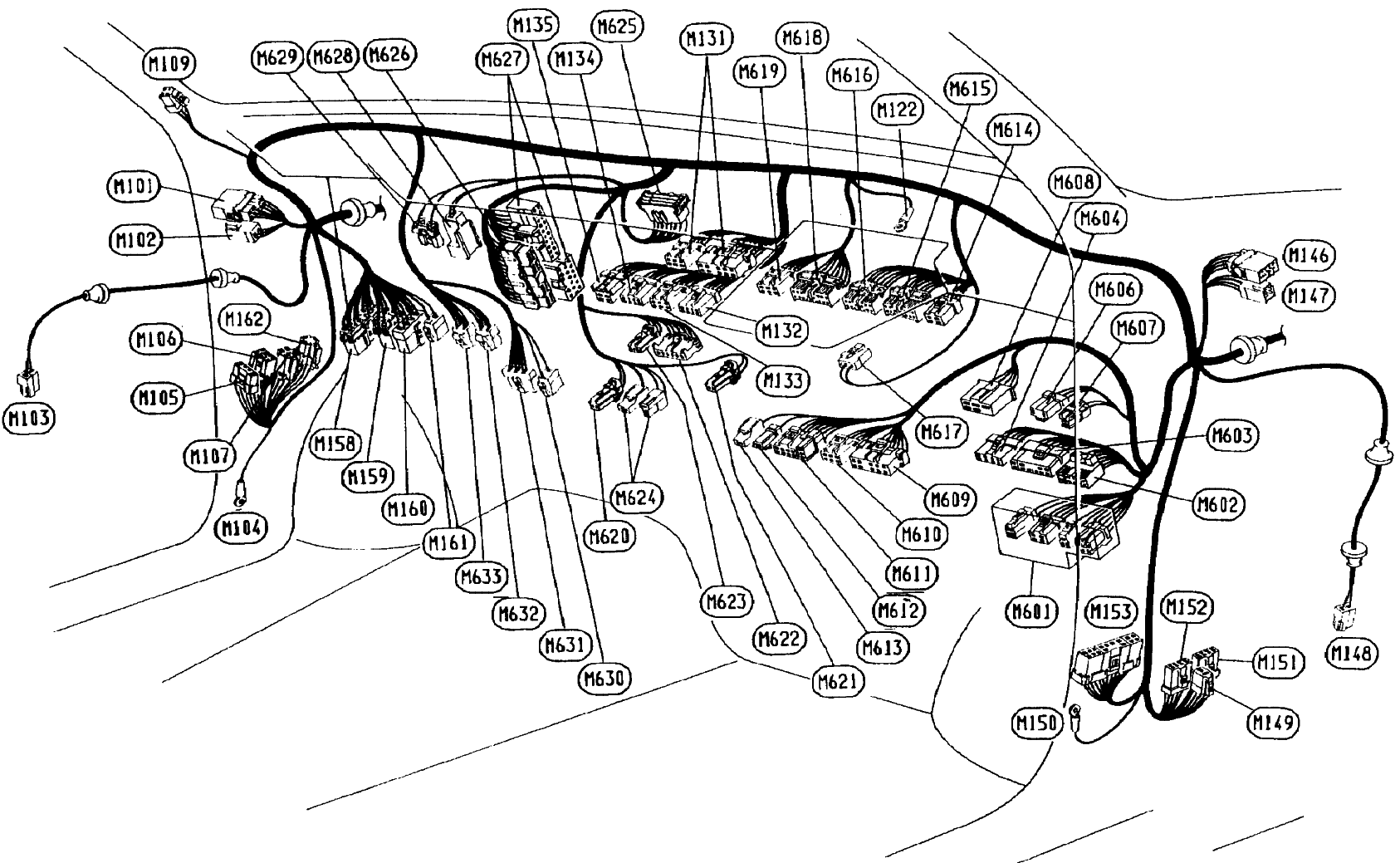
(N101)	: A (D1)
(N102)	: A (D2)
(N103)	: Altoparlante porta anteriore sinistra
(N104)	: Massa carrozzeria
(N105)	: Temporizzatore luci abitacolo
(N106)	: Amplificatore tergilunotto
(N107)	: Amplificatore lavaproiettori
(N108)	: A (R1) (Modelli STD a 3 porte con motore TD27T per Europa Meridionale)
(N109)	: 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 devioguida-comando
(N129)	: Interruttore illuminazione tergi/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

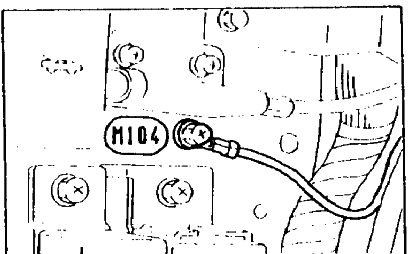
DISPOSIZIONE CABLAGGI

Cablaggio principale (Continuazione)

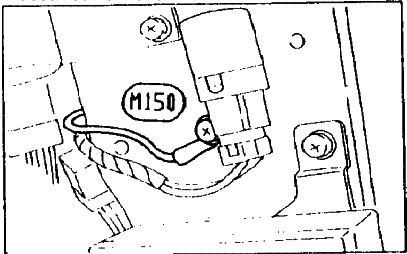
ABITACOLO MODELLI CON GUIDA A DESTRA



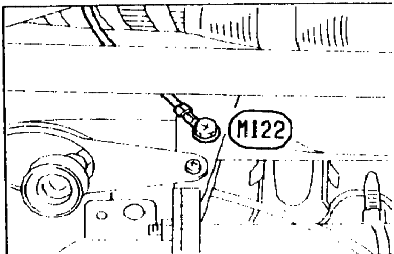
Massa carrozzeria



Massa carrozzeria



Massa carrozzeria



DISPOSIZIONE CABLAGGIO

Cablaggio Principale (Continuazione)

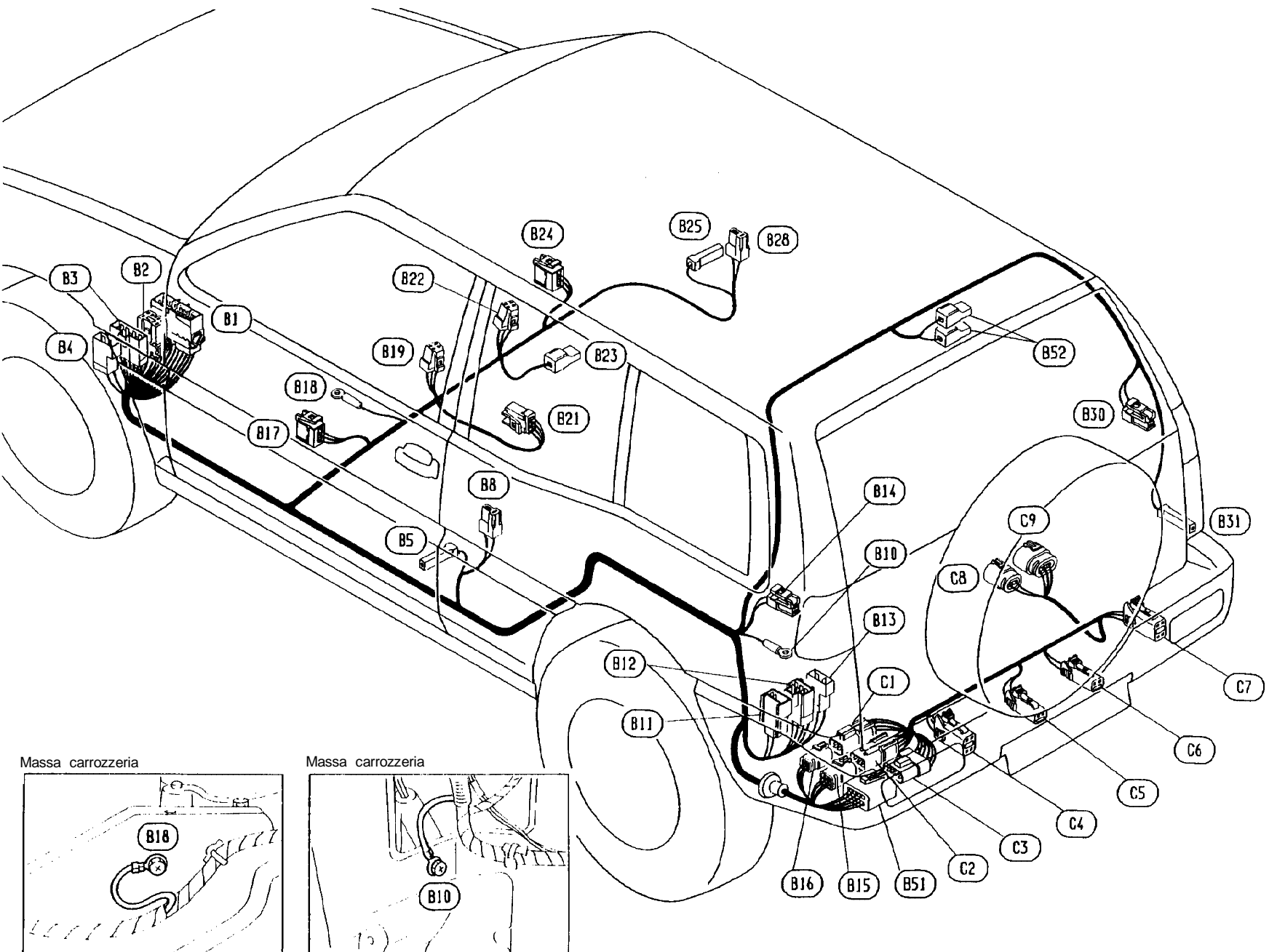
EL-109

(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 ccristalli)
(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

MODELLI A 3 PORTE

Cablaggio Carrozzeria e Cablaggio Maio



DISPOSIZIONE CABLAGGIO

Cablaggio Carrozzeria e Cablaggio Telaio

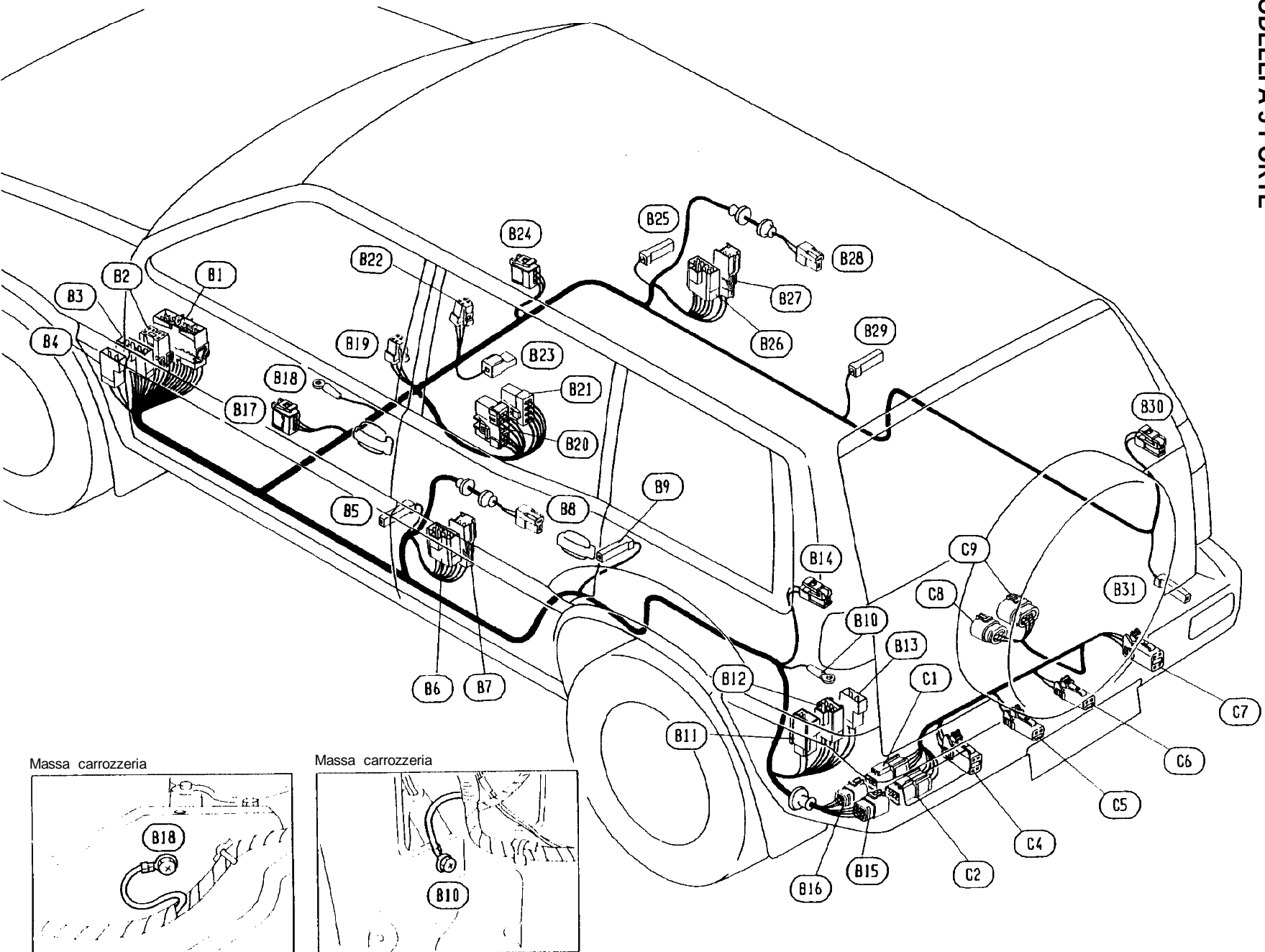
(Continuazione)

B1	:	A	M158		C1	:	A	B16
B2	:	A	M159		C2	:	A	B15
B3	:	A	M160		C3	:	A	B51 (Modelli STD con motore TD27T per Europa Meridionale)
B4	:	A	M161		C4	:		Gruppo ottico posteriore sinistro
B5	:				C5	:		Luce targa sinistra
B8	:				C6	:		Luce targa destra
B10	:				C7	:		Gruppo ottico posteriore destro
B11	:	A	T1		C8	:		Pompa carburante (Modelli con motore KA24E)
B12	:	A	T2	(Modelli GX e STD equipaggiati con luce stop superiore)	C9	:		Indicatore livello serbatoio carburante
B13	:	A	T3	(Modelli STD non equipaggiati con luce stop superiore)				
B14	:			Luce stop sinistra				
B15	:	A	C2					
B16	:	A	C1					
B17	:			Sedile riscaldato sinistro				
B18	:			Massa carrozzeria				
B19	:			Interruttore sedile riscaldato sinistro				
B21	:			Interruttore alzacristalli elettrico				
B22	:			Interruttore sedile riscaldato destro				
B23	:			Sedile riscaldato destro				
B24	:			Interruttore porta anteriore destra				
B25	:			Altoparlante posteriore destro				
B28	:			Luce stop destra				
B30	:			Interruttore luce bagagliaio				
B31	:			Interruttore luce bagagliaio				
B51	:	A	C3	(Modelli STD con motore TD27T per Europa Meridionale)				
B52	:			Luce bagagliaio				

DISPOSIZIONE CABLAGGI

Cablaggio Carrozzeria e Cablaggio Maio (Continuazione)

MODELLI A 5 PORTE



EL-112

DISPOSIZIONE CABLAGGIO

Cablaggio Carrozzeria e Cablaggio Telaio

(Continuazione)

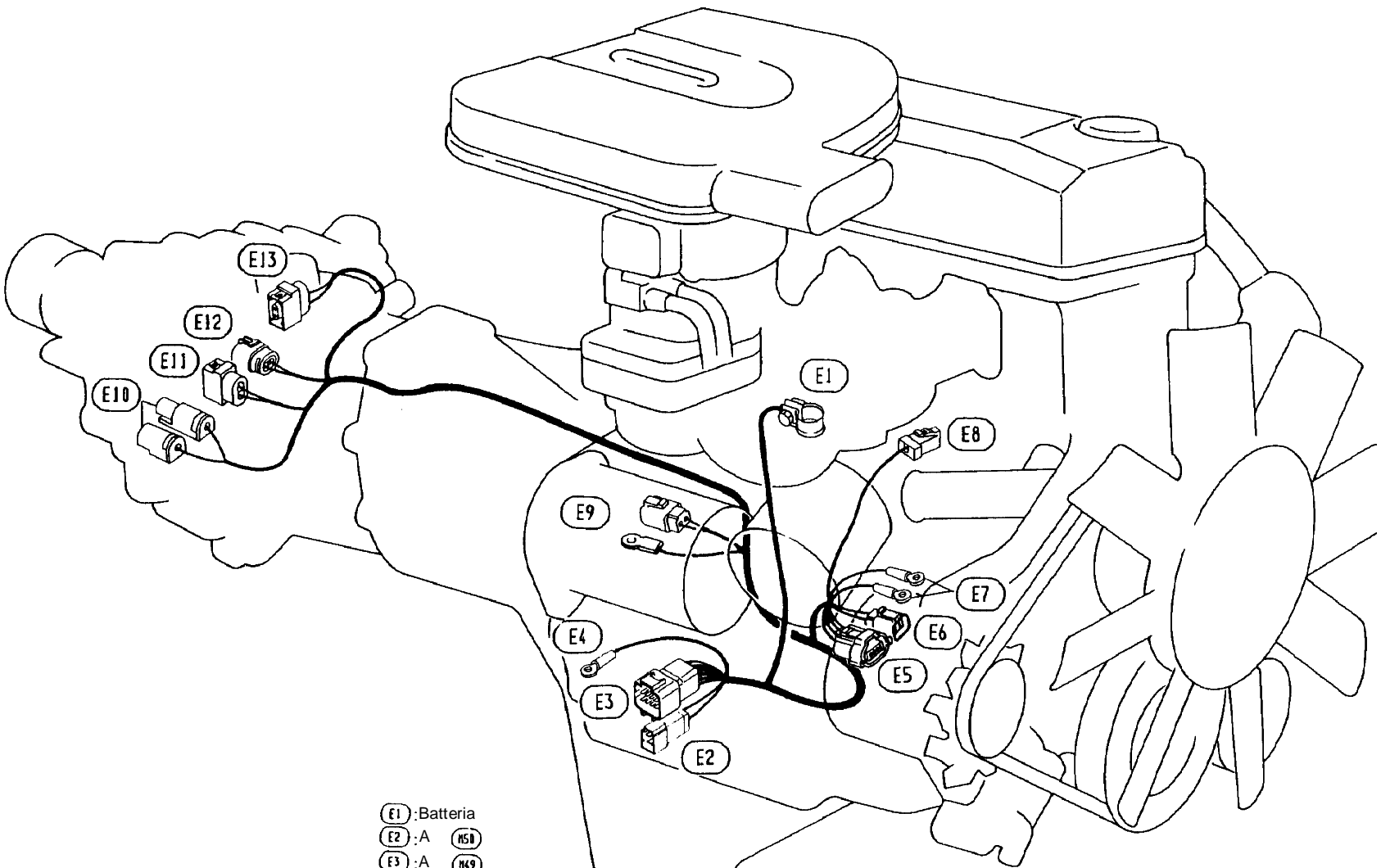
- C1 : A 816
- C2 : A 815
- C4 : Gruppo ottico posteriore sinistro
- C5 : Luce targa sinistra
- C6 : Luce targa destra
- C7 : Gruppo ottico posteriore destro
- C8 : Pompa carburante (Modelli con motore KA24E)
- C9 : Indicatore livello serbatoio carburante

- 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 D71
- B27 : A D72
- B28 : Altoparlante posteriore sinistro
- B29 : Interruttore porta posteriore sinistra
- B30 : Luce stop destra
- B31 : Interruttore luce bagagliaio

DISPOSIZIONE CABLAGGI

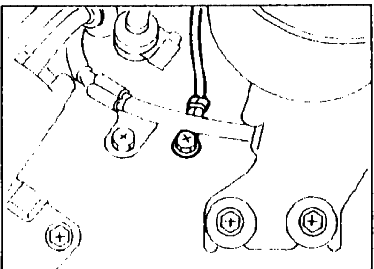
MODELLI CON MOTORE KA24E

Cablaggio Motore



- (E1) :Batteria
- (E2) :A (MSB)
- (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^a marcia

Massa carrozzeria



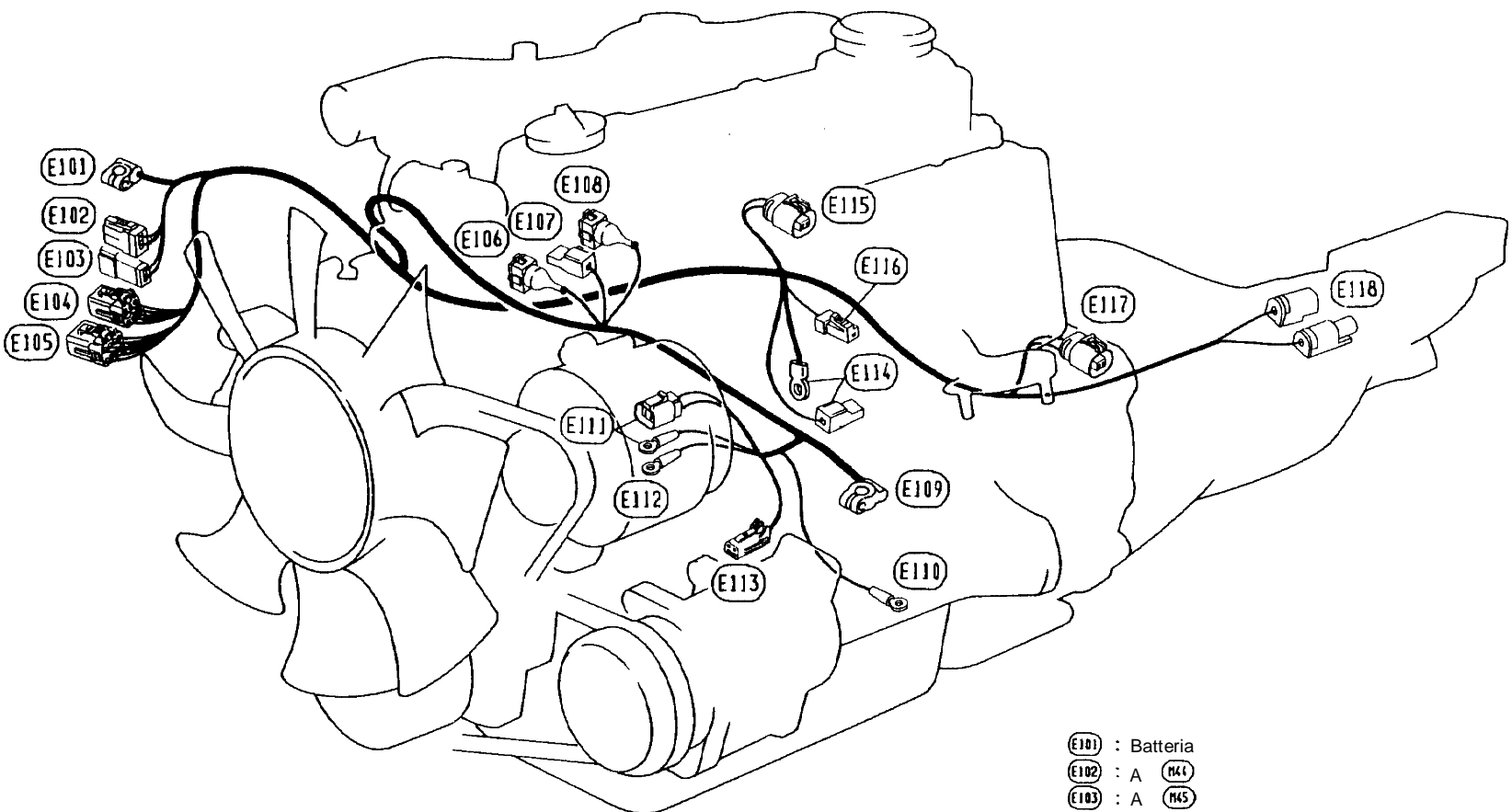
VELO14

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DISPOSIZIONE CABLAGGI

Cablaggio Motore (Continuazione)

MODELLI CON MOTORE TD27T

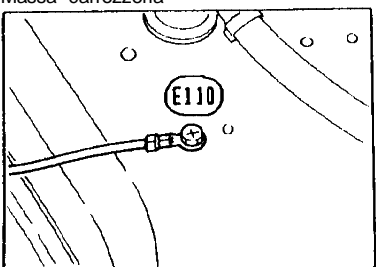


- (E101) : Batteria
- (E102) : A (M44)
- (E103) : A (M45)
- (E104) : A (M69)
- (E105) : A (M70)
- (E106) : Sensore temperatura acqua
- (E107) : Trasmittitore di temperatura
- (E108) : Sensore temperatura acqua (Sistema controllo E.G.R.)
- (E109) : Batteria (Per Europa Settentrionale)
- (E110) : Massa 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

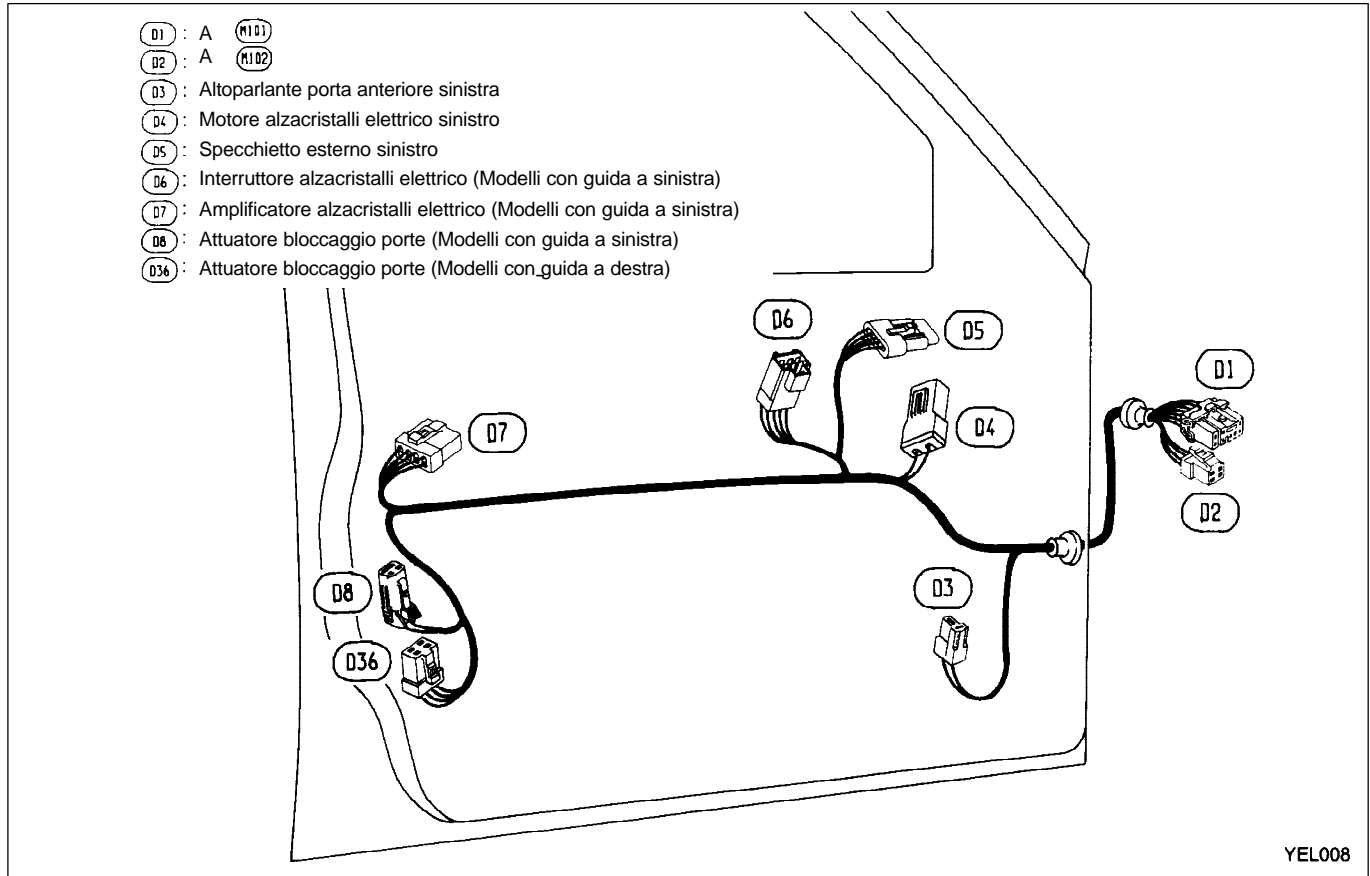
Massa carrozzeria



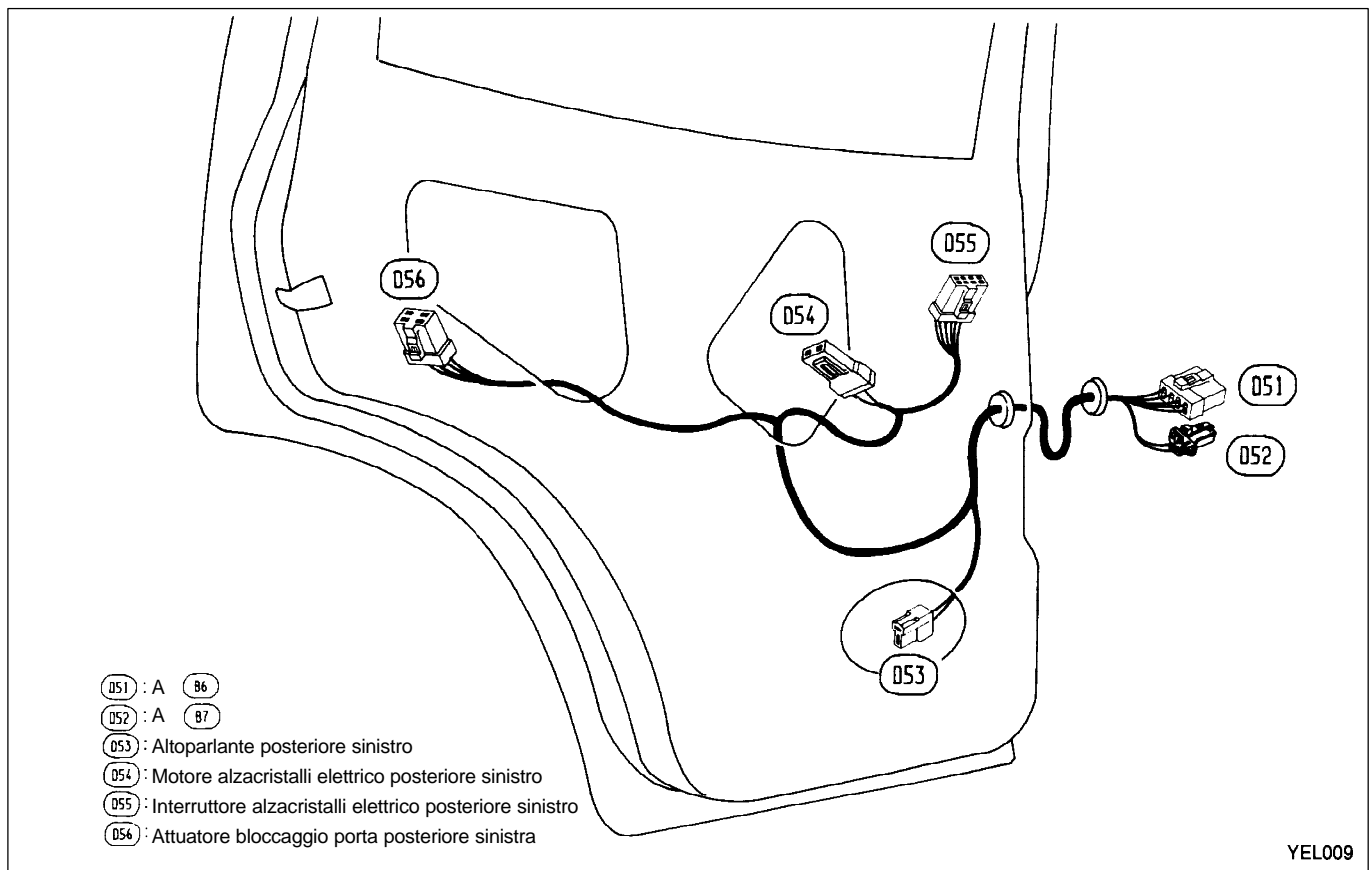
DISPOSIZIONE CABLAGGI

Cablaggio Porte (Lato sinistro)

PORTE ANTERIORI



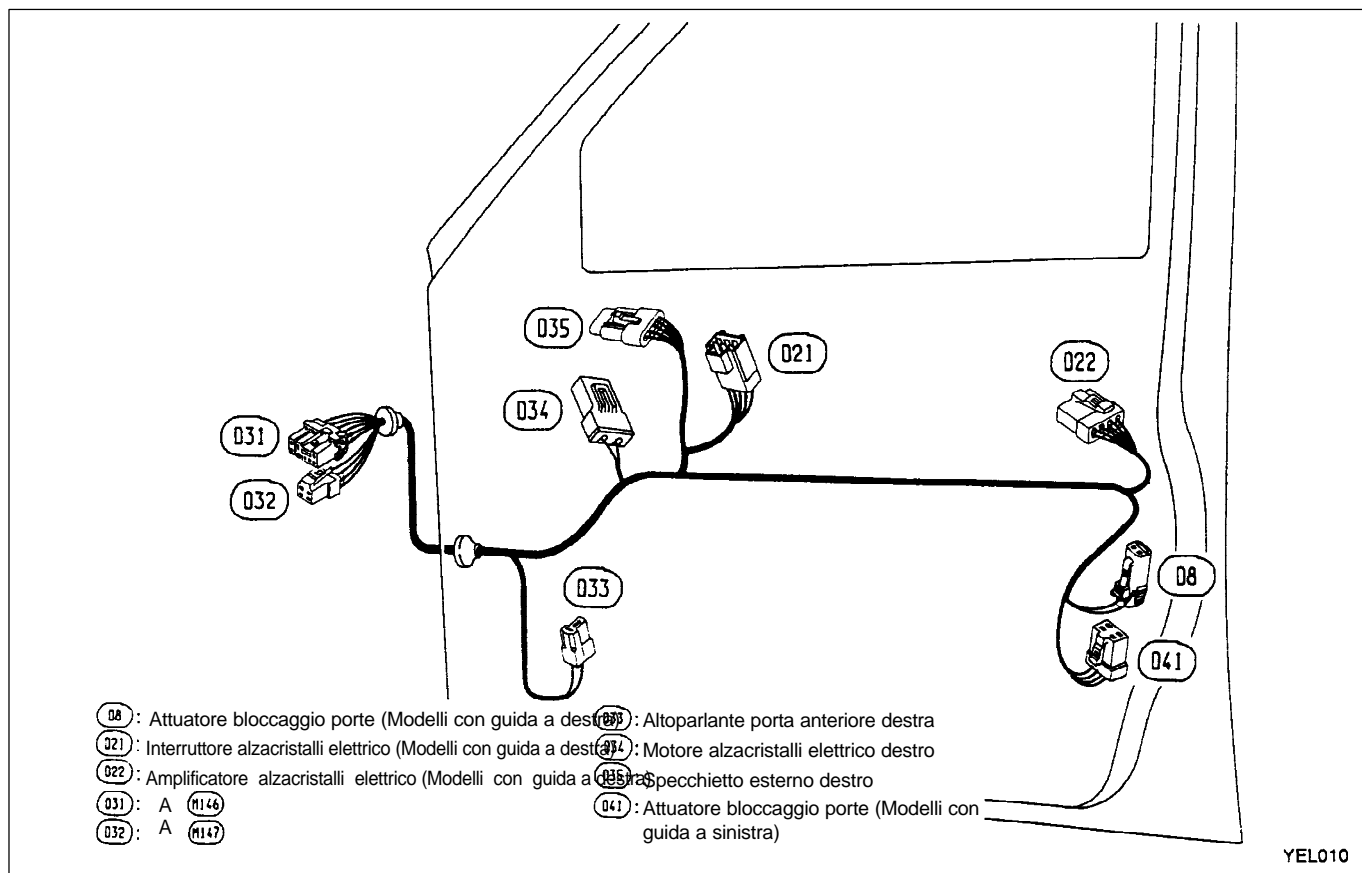
PORTE POSTERIORI



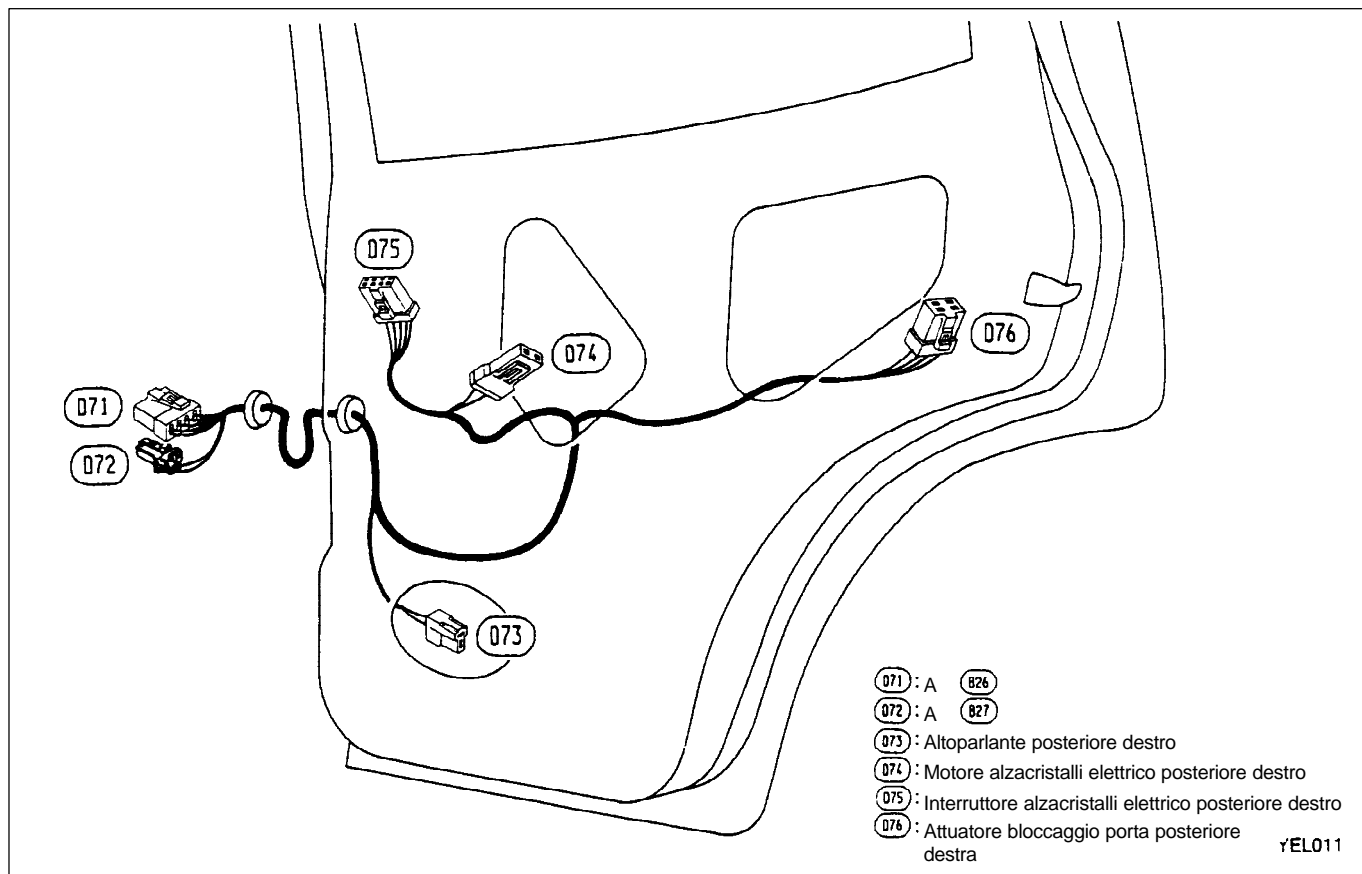
DISPOSIZIONE CABLAGGI

Cablaggio Porte (Lato destro)

PORTE ANTERIORI

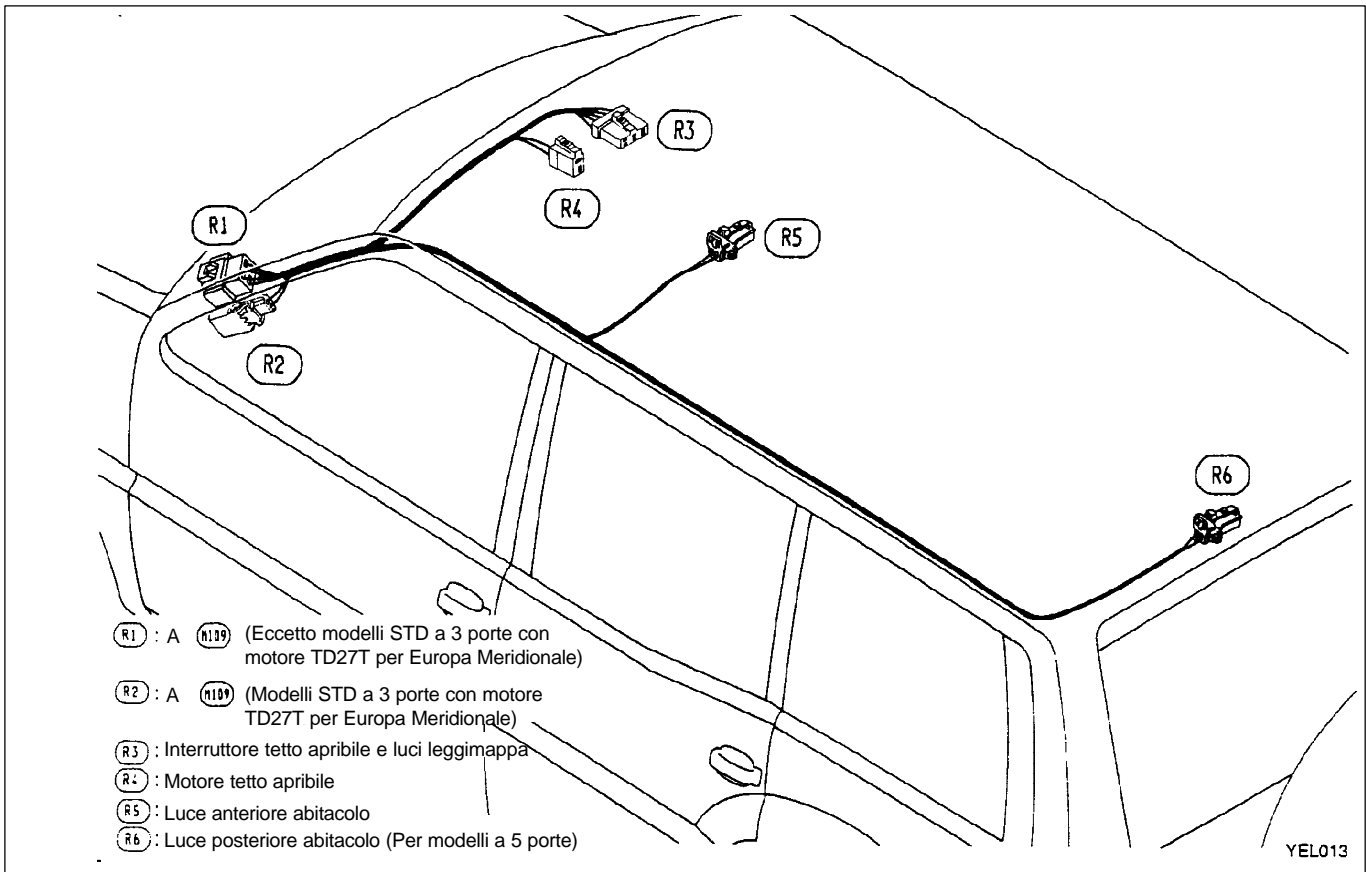


PORTE POSTERIORI



DISPOSIZIONE CABLAGGI

Cablaggio Luci Abitacolo



Cablaggio Portellone

