

ELECTRICAL SYSTEM

SECTION **EL**

When you read wiring diagrams:

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

When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES" and "HOW TO PERFORM EFFICIENT DIAGNOSIS FOR AN ELECTRICAL INCIDENT".

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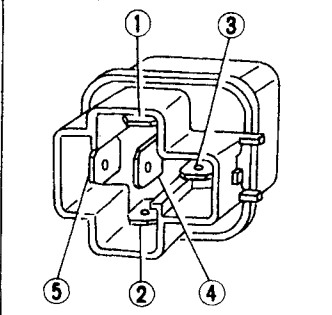
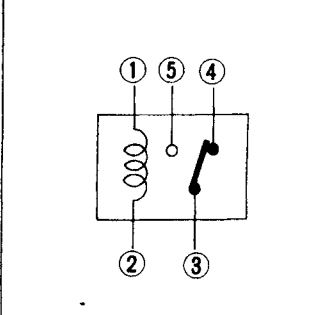
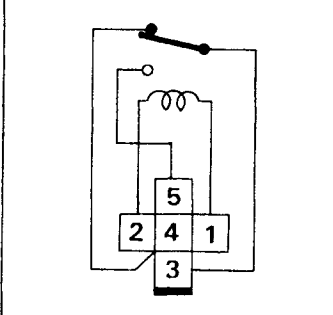
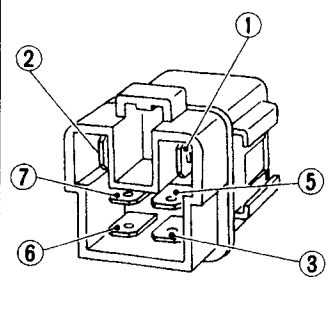
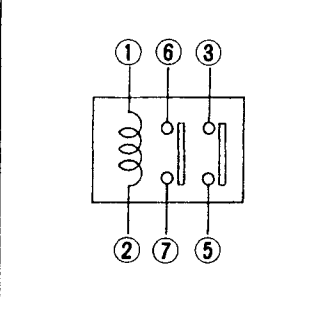
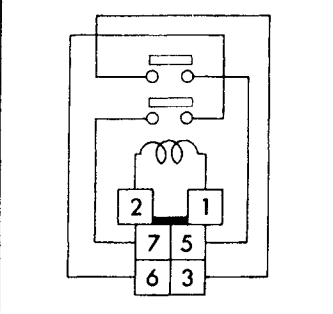
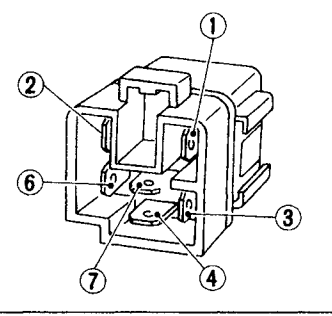
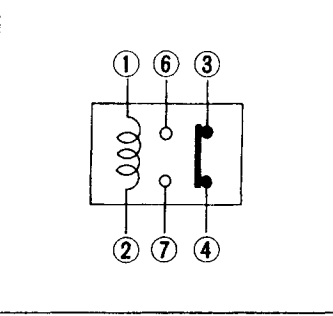
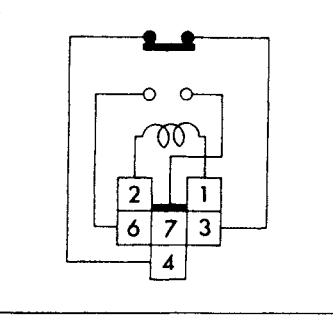
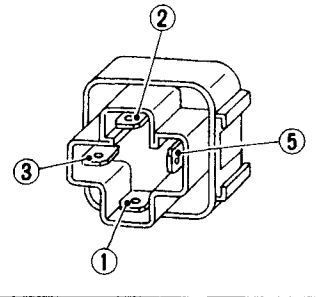
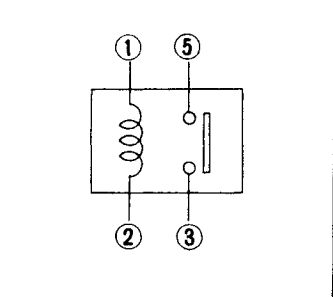
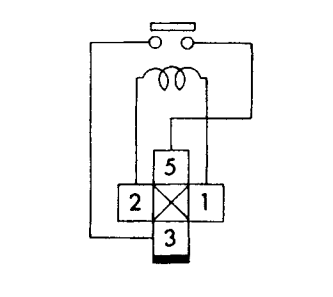
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WIRING DIAGRAM REFERENCE CHART

COOLING SYSTEM	LC SECTION
ECCS (Ignition system)	EC SECTION
AUTOMATIC TRANSAXLE CONTROL SYSTEM	AT SECTION
ANTI-LOCK BRAKE SYSTEM	BR SECTION
SRS "AIR BAG"	RS SECTION
HEATER AND AIR CONDITIONER	HA SECTION

STANDARDIZED RELAY

Description (Cont'd)

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

The arrangement of terminal numbers on the actual relays may differ from those shown above.

EL

GROUND DISTRIBUTION

GROUND	CONNECT TO	CONN. NO.	CELL CORD
M27	COMBINATION METER (TACHOMETER)	M31	EL-METER
	COMBINATION METER (AIR BAG WARNING LAMP)	M*1	RS-SRS EL-WARN
	COMBINATION METER (CLOCK ILLUMINATION) (For Europe and Israel)	M*1	EL-ILL EL-HORN
	COMBINATION METER (FUEL GAUGE)	M*1	EL-METER
	COMBINATION METER (HIGH BEAM INDICATOR)	M*1	EL-H/LAMP EL-DTRL
	COMBINATION METER (SPEEDOMETER)	M*1	EC-VSS EC-COOL/F EL-METER
	COMBINATION METER (TURN)	M*2	EL-TURN
	COMBINATION METER (WATER TEMP. GAUGE)	M*1	EL-METER
M28/M68 (LHD models) M28/M60/M68 (RHD models)	A/T CONTROL DEVICE (OD CONTROL SWITCH)	M42	AT-A/T
	A/T CONTROL DEVICE (A/T INDICATOR ILLUMINATION)	M42	EL-ILL
	ACCESSORY RELAY (In fuse block)	M15	EL-POWER
	ASHTRAY ILLUMINATION	M44	EL-ILL
	BLOWER RELAY (In fuse block)	M15	EL-POWER
	CIGARETTE LIGHTER SOCKET	M43	EL-HORN
	COMBINATION FLASHER UNIT	M20	EL-TURN
	COMBINATION METER (METER ILLUMINATION) (For Europe and Israel)	M30 M32	EL-ILL
	DATA LINK CONNECTOR FOR CONSULT	M13	EC-MIL BR-ABS RS-SRS
	DOOR LOCK TIMER (Type-1)	M34	EL-D/LOCK
	DOOR LOCK TIMER (Type-2)	M35	EL-D/LOCK
	DOOR MIRROR REMOTE CONTROL SWITCH	M9	EL-MIRROR
	ECM (ENGINE CONTROL MODULE)	M39	EC-GLOW
	FAN SWITCH	M45	EC-A/CCUT EC-LOAD HA-A/C
	FAN SWITCH ILLUMINATION	M48	HA-A/C EL-ILL
	FRONT FOG LAMP SWITCH	M10	EL-F/FOG EL-ILL
	FRONT WIPER AMPLIFIER	M74	EL-WIPER
	FRONT WIPER MOTOR (With ABS, dual air bag or rear power window)	M83	EL-WIPER
	GLOVE BOX LAMP SWITCH	M66	EL-ILL
	HAZARD SWITCH	M54	EL-TURN EL-ILL
	HEADLAMP AIMING SWITCH	M11	EL-AIM
	HEADLAMP WIPER AND WASHER SWITCH	M56	EL-ILL EL-HLC
	IGNITION RELAY (In fuse block)	M15	EL-POWER
	ILLUMINATION CONTROL SWITCH	M21	EL-ILL
	MIRROR DEFOGGER RELAY	M17	EL-DEF
	NATS IMMU	M36	EL-NATS

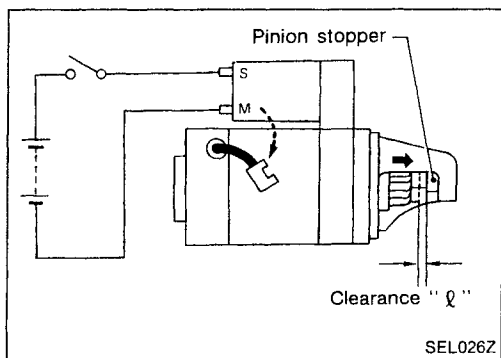
*1: M30 (With tachometer), M32 (Without tachometer)

*2: M30 (Without tachometer), M31 (With tachometer)

STARTING SYSTEM

Assembly

Apply high-temperature grease to lubricate the bearing, gears and frictional surface when assembling the starter. Carefully observe the following instructions.

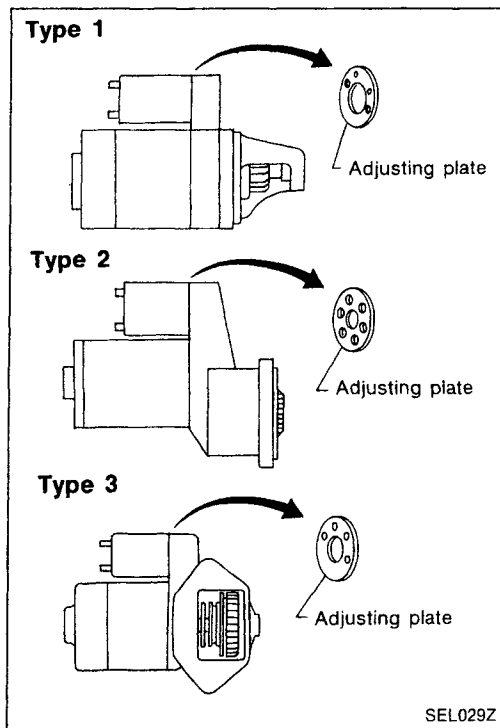


PINION PROTRUSION LENGTH ADJUSTMENT

With pinion driven out by magnetic switch, push pinion back to remove slack and measure clearance "ℓ" between the front edge of the pinion and the pinion stopper.

Clearance "ℓ":

Refer to SDS (EL-50).

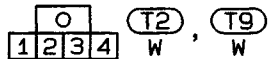
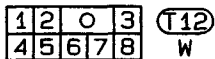
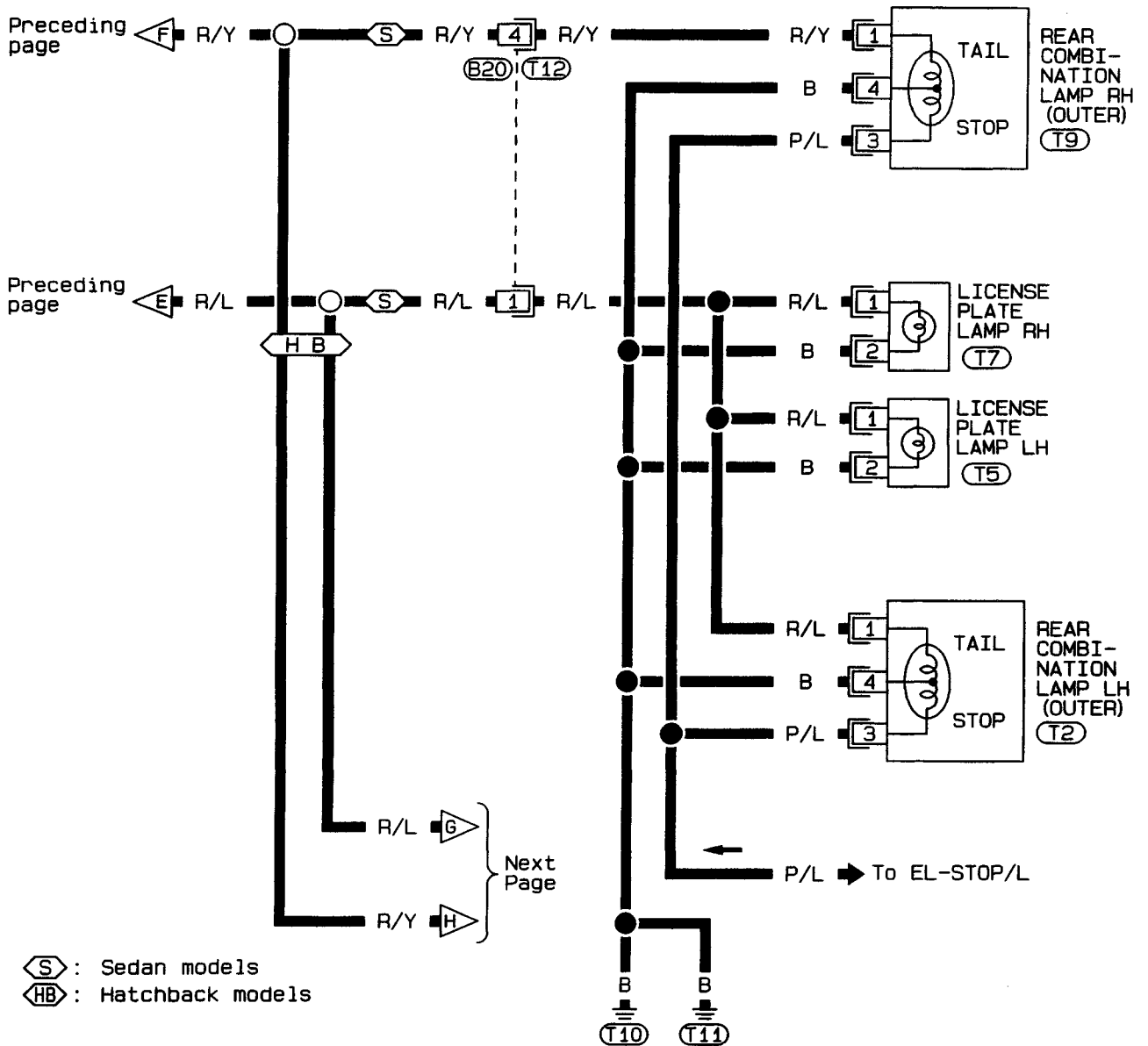


- Not in the specified value ... Adjust by adjusting plate.

EXTERIOR LAMP

Clearance, License and Tail Lamps/Wiring Diagram — TAIL/L — (Cont'd)

EL-TAIL/L-05



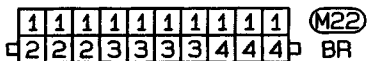
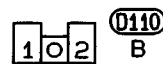
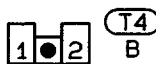
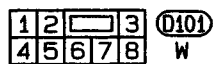
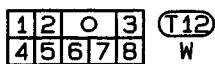
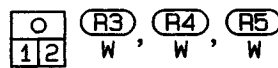
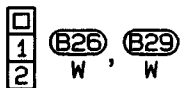
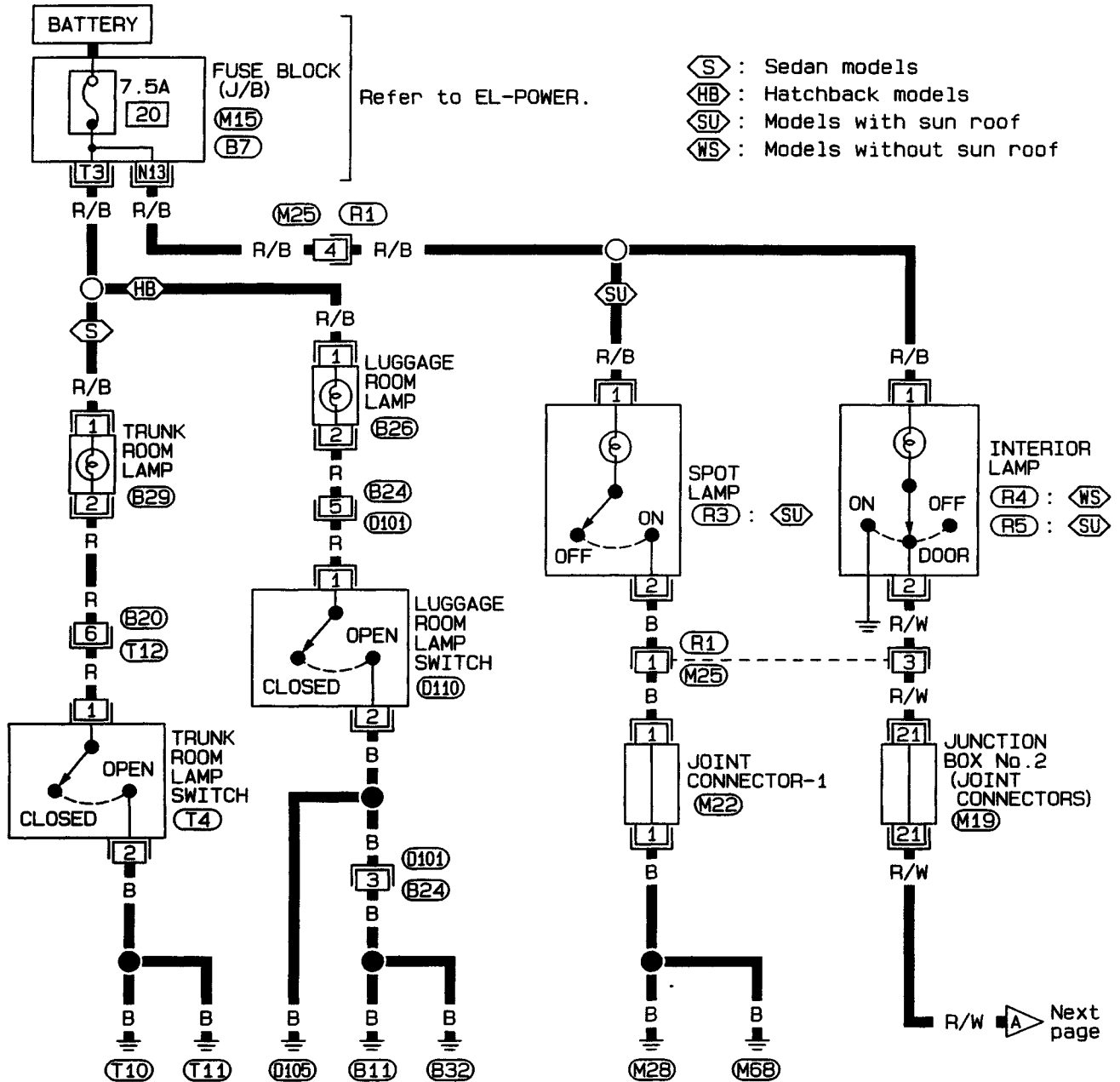
EL

INTERIOR LAMP

Interior, Spot, Trunk Room and Luggage Room Lamps/Wiring Diagram — INT/L —

LHD MODELS

EL-INT/L-01



Refer to last page (Foldout page).

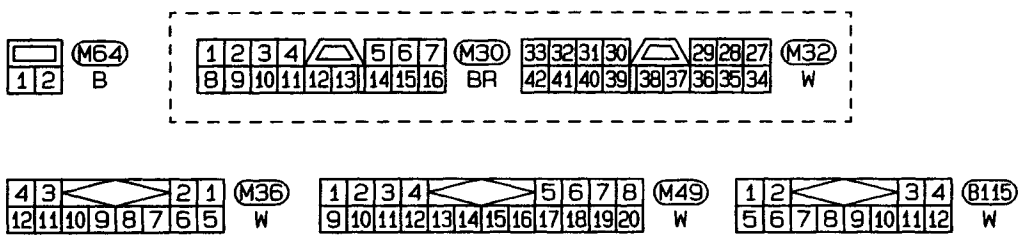
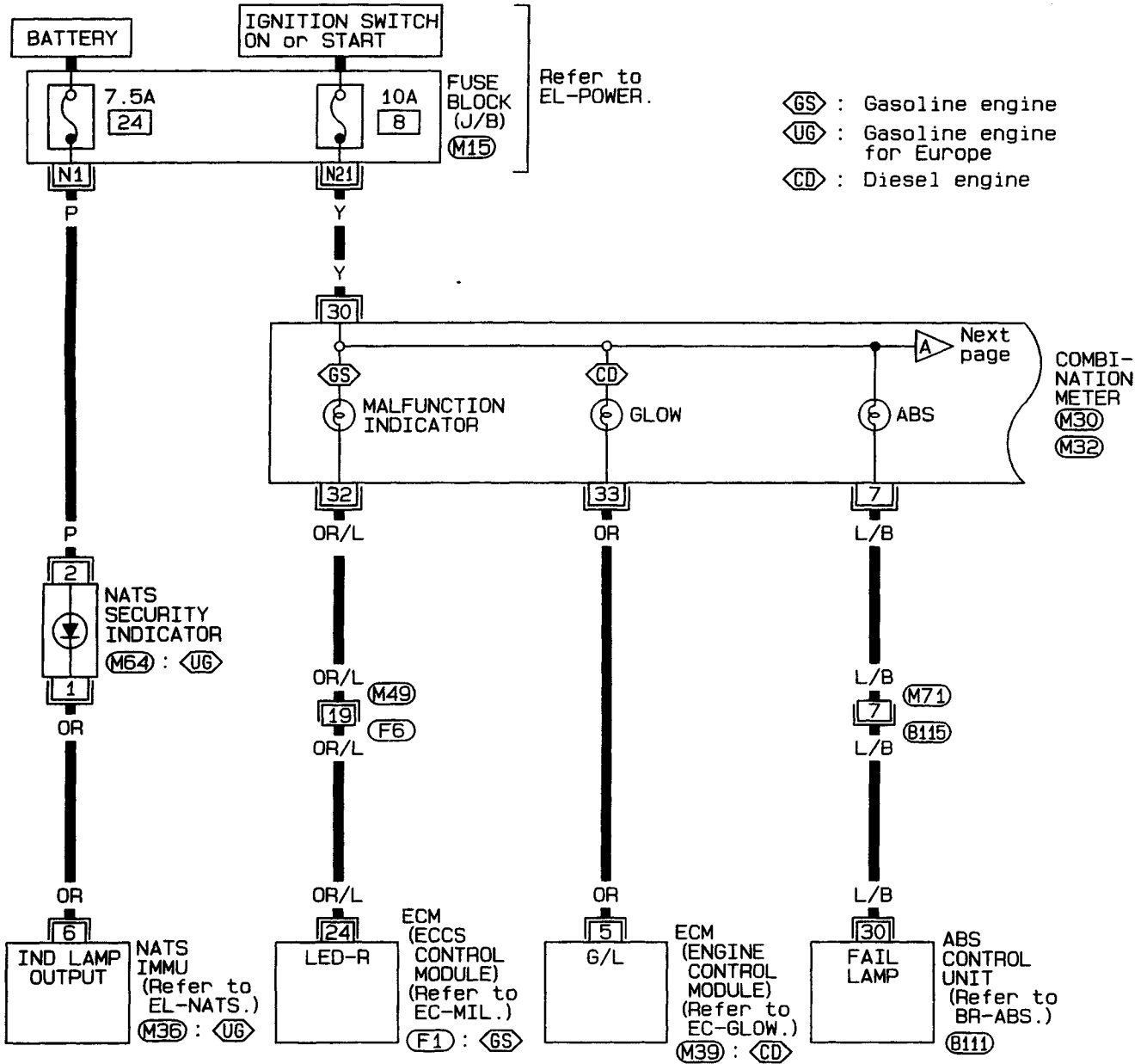
M15, B7, M19

WARNING LAMPS AND BUZZER

Warning Lamps/Wiring Diagram — WARN —

LHD MODELS WITH TACHOMETER

EL-WARN-01

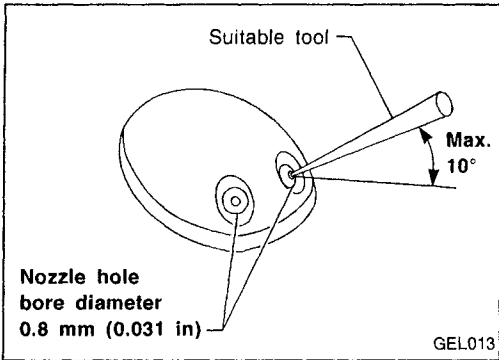


Refer to last page (Foldout page).

- ⬡M15
- ⬡F1
- ⬡M39
- ⬡B111

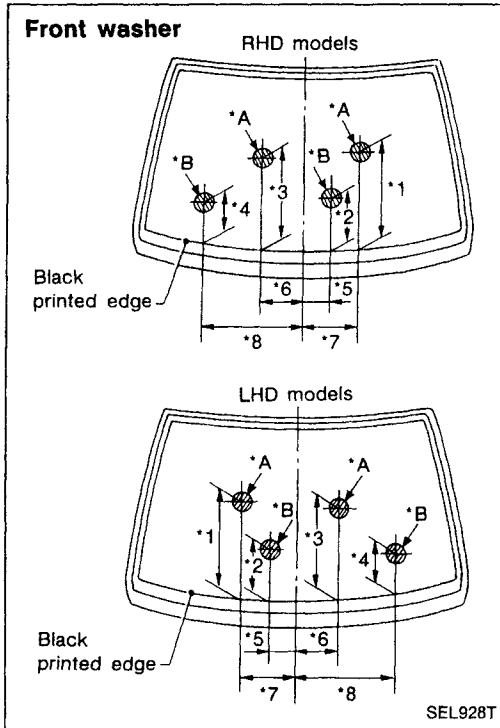
EL

WIPER AND WASHER



Front Washer Nozzle Adjustment

- Adjust washer nozzle with suitable tool as shown in the figure at left.
- Adjustable range: $\pm 10^\circ$ (In any direction)**



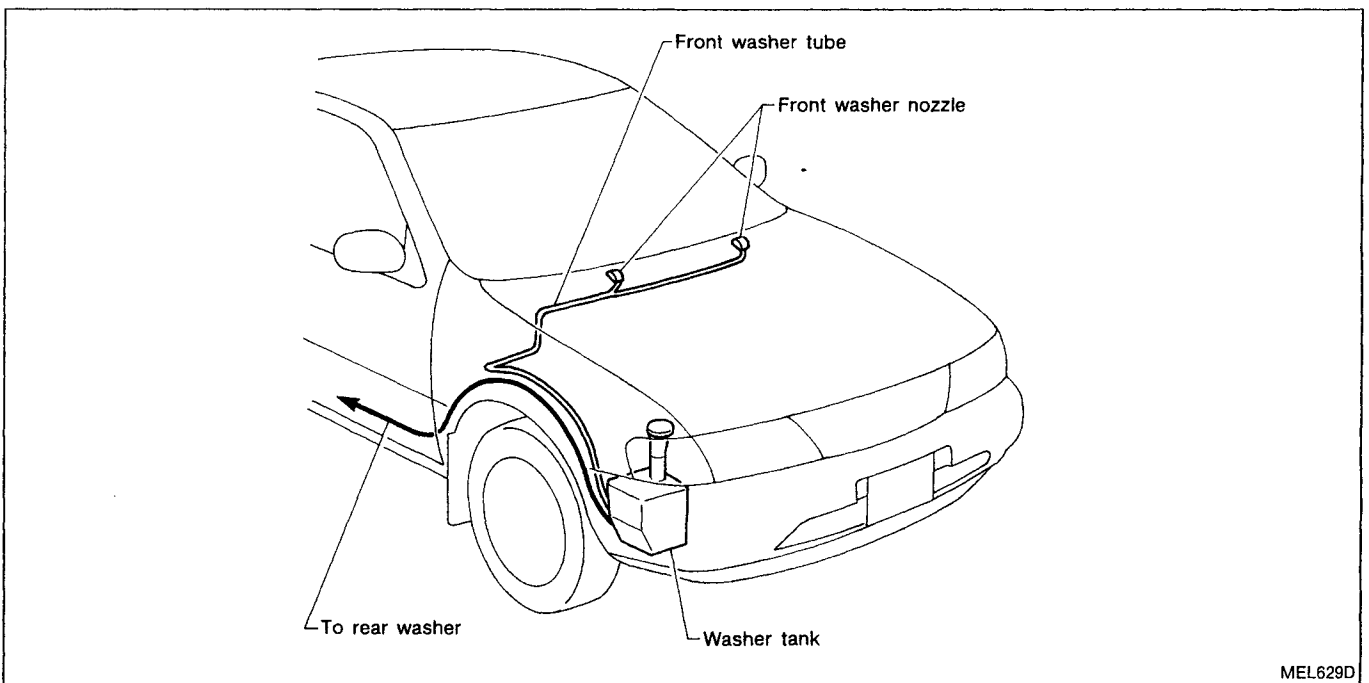
Unit: mm (in)

*1	310 (12.20)	*5	160 (6.30)
*2	265 (10.43)	*6	170 (6.69)
*3	365 (14.37)	*7	345 (13.58)
*4	175 (6.89)	*8	410 (16.14)

*A: The diameters of these circles are less than 140 mm (5.51 in).

*B: The diameters of these circles are less than 80 mm (3.15 in).

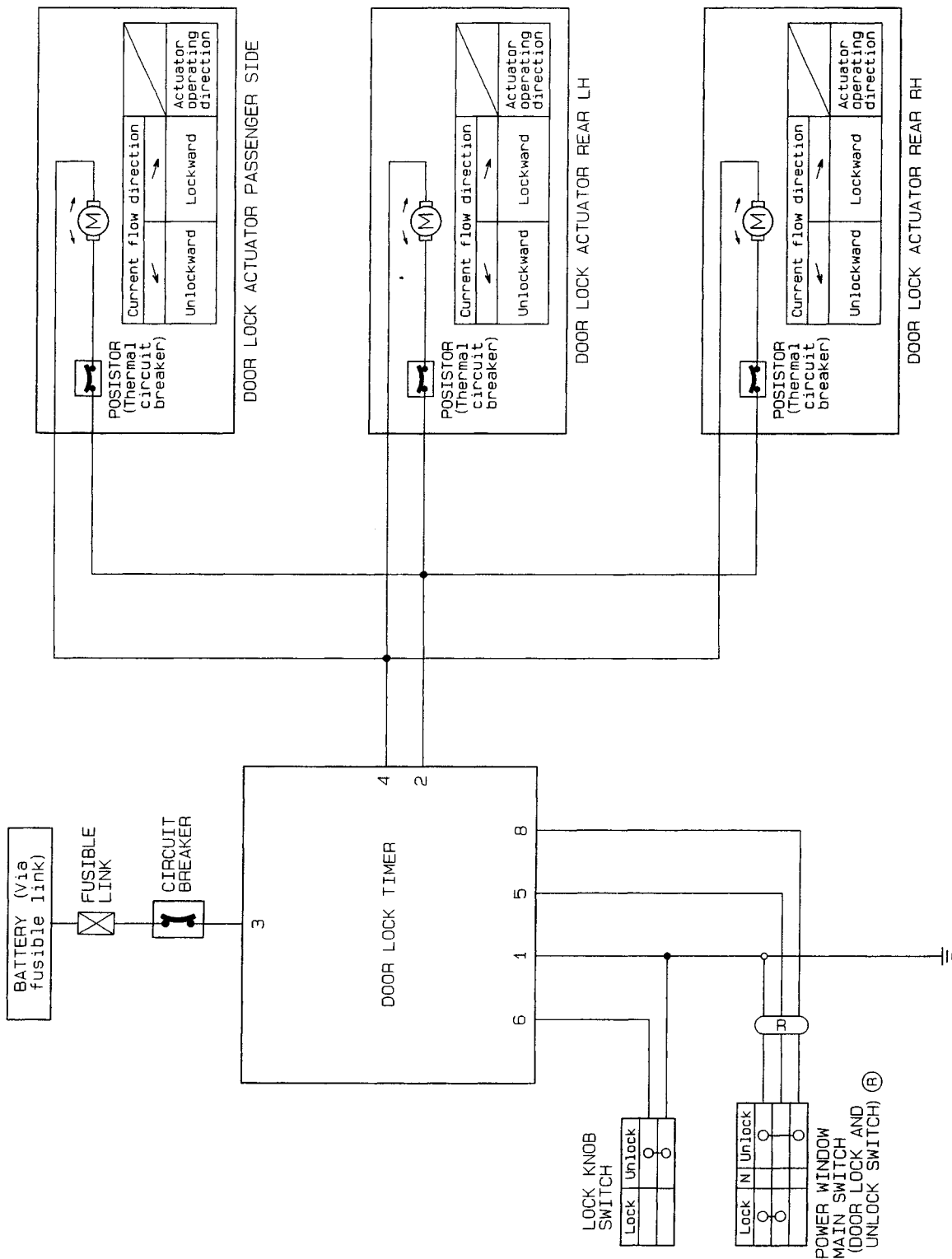
Front Washer Tube Layout



POWER DOOR LOCK

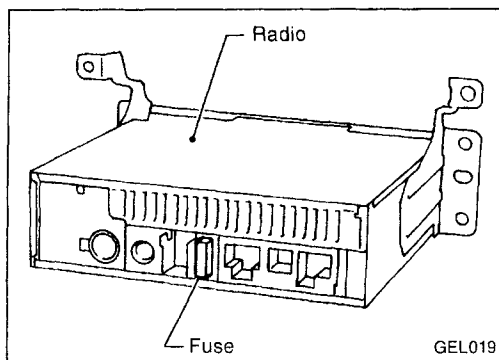
Schematic (Cont'd)

TYPE-2 (Except for Europe and Australia)



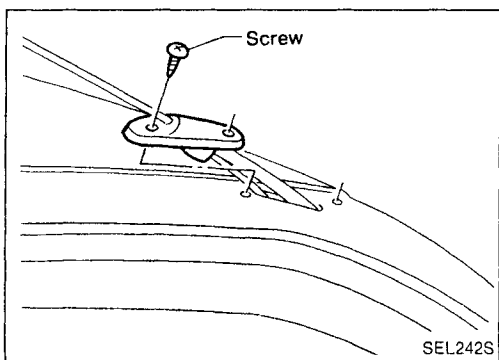
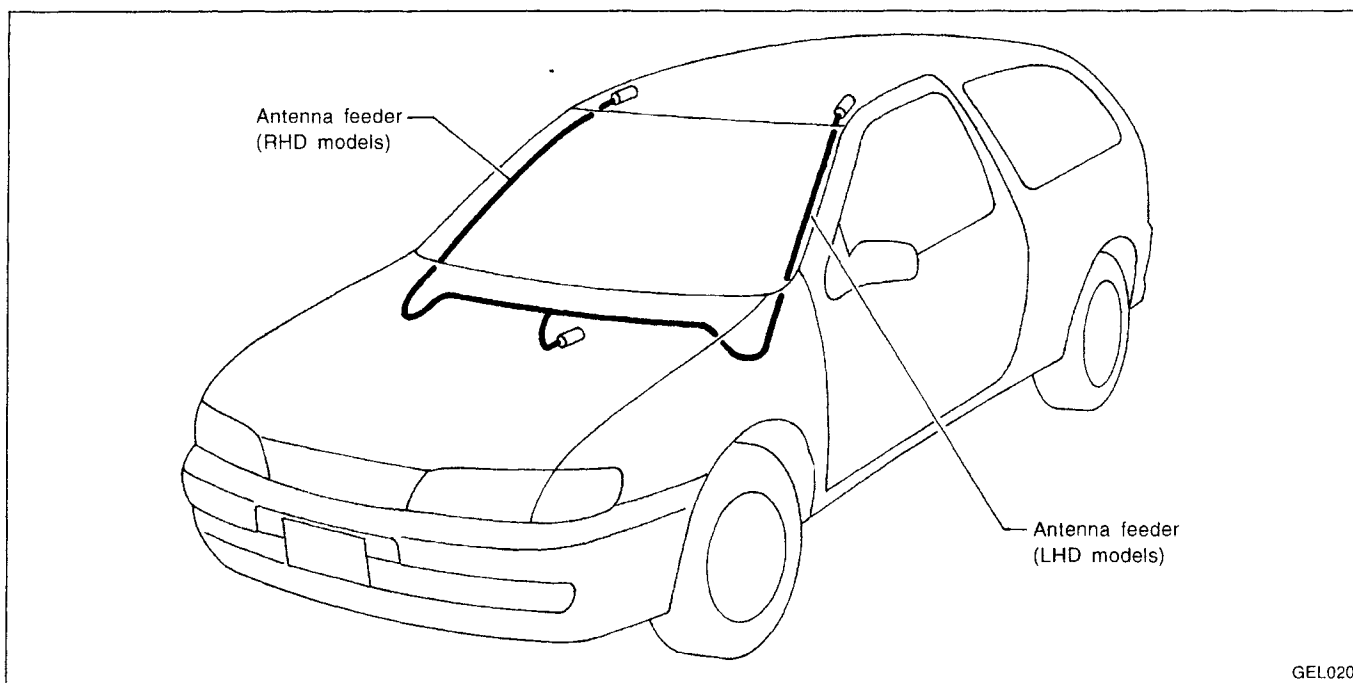
(R) : RHD models

AUDIO AND ANTENNA



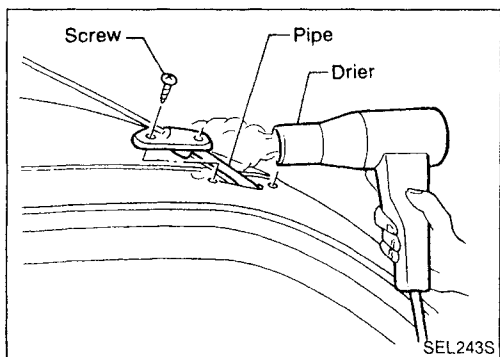
Radio Fuse Check

Location of Antenna



Antenna Rod Replacement

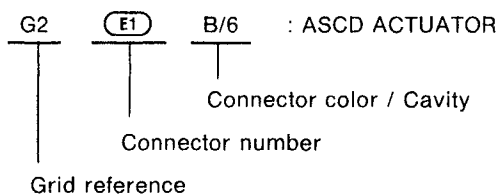
1. Loosen screws securing antenna base.
2. Pull out pipe from antenna base.
Heating the pipe with a drier makes it easier.



HARNES LAYOUT

How to Read Harness Layout

Example:



The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Engine Room Harness (Engine Compartment)
- Main Harness
- Body Harness

To use the grid reference

- 1) Find the desired connector number on the connector list.
- 2) Find the grid reference.
- 3) On the drawing, find the crossing of the grid reference letter column and number row.
- 4) Find the connector number in the crossing zone.
- 5) Follow the line (if used) to the connector.

CONNECTOR SYMBOL

Main symbols of connector (in Harness Layout) are indicated in the below.

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
<ul style="list-style-type: none"> ● Cavity: Less than 4 ● Relay connector 				
<ul style="list-style-type: none"> ● Cavity: From 5 to 8 				
<ul style="list-style-type: none"> ● Cavity: More than 9 	—	—		
<ul style="list-style-type: none"> ● Ground terminal etc. 	—			

FFC (FLAT FLEXIBLE CIRCUIT)

An FFC (Flat Flexible Circuit) has been adopted for door harness of 3-door Hatchback models for Europe.

CAUTION:

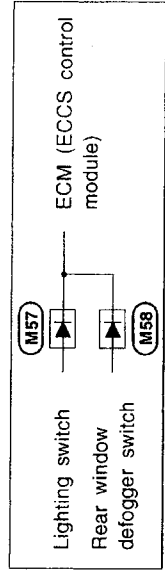
- Do not attempt to repair, splice or modify the FFC. If the FFC is damaged, replace with a new one.
- Do not force the FFC in the opposite direction to which it is bent.

HARNES LAYOUT

Main Harness (Cont'd)

A4	M1	SMJ	To (D1)	E3	M45	W/6	Fan switch
A3	M2	W/6	To (B4) (With power door lock)	F3	M46	W/4	Recirculation switch
A3	M4	W/4	To (B1)	F3	M47	W/3	A/C switch
A3	M5	W/12	To (B2)	E3	M48	W/3	Fan switch illumination
B4	M7	L/4	Fuel pump relay (Gasoline engine)	F3	M49	W/20	To (F6) (Gasoline engine)
A3	M8	SMJ	To (E101)	F3	M50	W/10	Radio
C3	M9	GY/12	Door mirror remote control switch	F3	M51	W/6	Radio (For rear speaker)
B3	M10	B/6	Front fog lamp switch	E2	M53	W/6	Rear window defogger switch
C3	M11	W/8	Headlamp aiming switch	D2	M54	W/8	Hazard switch
B4	M13	GY/14	Data link connector for CONSULT	E2	M55	BR/6	Rear fog lamp switch
B3	M15	—	Fuse block (J/B)	E2	M56	BR/8	Headlamp wiper and washer switch (With daytime light system)
B4	M16	L/4	Power window relay (With power window)	D1	M57	—	Diode-1 (GA engine)
C3	M17	L/4	Sun roof relay (Without power window)	E1	M58	—	Diode-2 (GA engine)
			Mirror defogger relay	D1	M59	BR/20	Joint connector-3
			(With daytime light system)	F2	M61	W/3	Thermo control amplifier
C2	M18	B/2	Stop lamp switch	E2	M62	Y/12	To (Z3) (For dual air bag system)
C3	M19	—	Junction box No.2 (Joint connectors)	E1	M63	W/4	Intake door mptor
C3	M20	B/3	Combination flasher unit	E1	M64	B/2	NATS security indicator (Gasoline engine for Europe)
B2	M22	BR/20	Joint connector-1	F2	M65	Bulb	Glove box lamp
B2	M23	GY/6	Joint connector-2	F2	M66	BR/2	Glove box lamp switch
B2	M25	W/4	To (R1)	G1	M67	BR/2	Pillar speaker RH (For 6-speaker system)
A1	M26	BR/2	Pillar speaker LH (For 6-speaker system)	F1	M68	—	Body ground
C1	M27	—	Body ground	F2	M69	W/8	To (B113)
C2	M28	—	Body ground	F3	M71	W/12	To (B115)
C1	M29	W/6	Joint connector-8	F2	M72	BR/4	Fan resistor
C2	M30	BR/16	Combination meter	G2	M73	W/2	Blower motor
C2	M31	W/10	Combination meter (With tachometer)	G2	M74	W/8	Front wiper amplifier
C2	M32	W/16	Combination meter	G2	M75	SMJ	To (D31)
D3	M33	B/12	Warning buzzer unit	F1	M81	GY/2	Side turn signal lamp RH (Without ABS, dual air bag, daytime light system and rear power window)
D3	M34	W/18	Door lock timer (For Europe)	F1	M82	GY/2	Power steering oil pressure switch (GA engine without ABS, dual air bag, daytime light system and rear power window)
D3	M35	W/8	Door lock timer (Except for Europe)	E1	M83	GY/6	Front wiper motor (Without ABS, dual air bag, daytime light system and rear power window)
D2	M36	W/12	NATS IMMU (Gasoline engine for Europe)				
D2	M37	W/4	Rear window defogger timer				
			(With daytime light system)				
E4	M39	L/48	ECM (Engine control module) (Diesel engine)				
D4	M40	W/6	To (F4) (Gasoline engine)				
E4	M42	W/6	Overdrive control switch - A/T illumination				
E4	M43	B/2	Cigarette lighter				
F4	M44	W/2	Ashtray illumination				

Diode-1 **(M57)** , Diode-2 **(M58)**

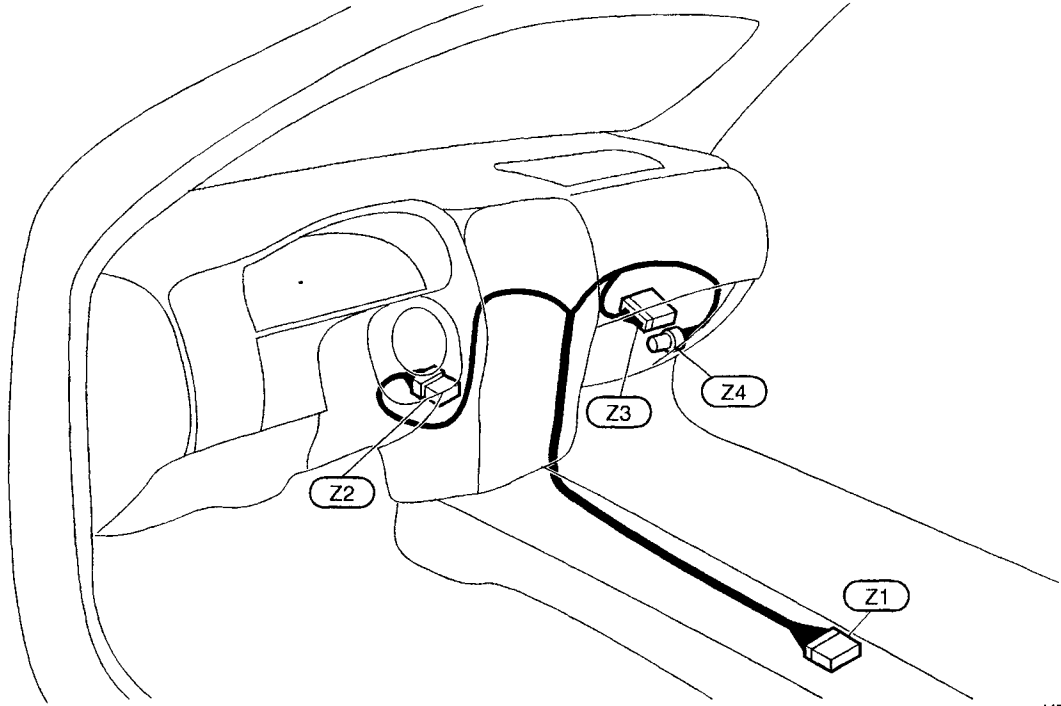


HARNESS LAYOUT

Air Bag Harness

LHD MODELS

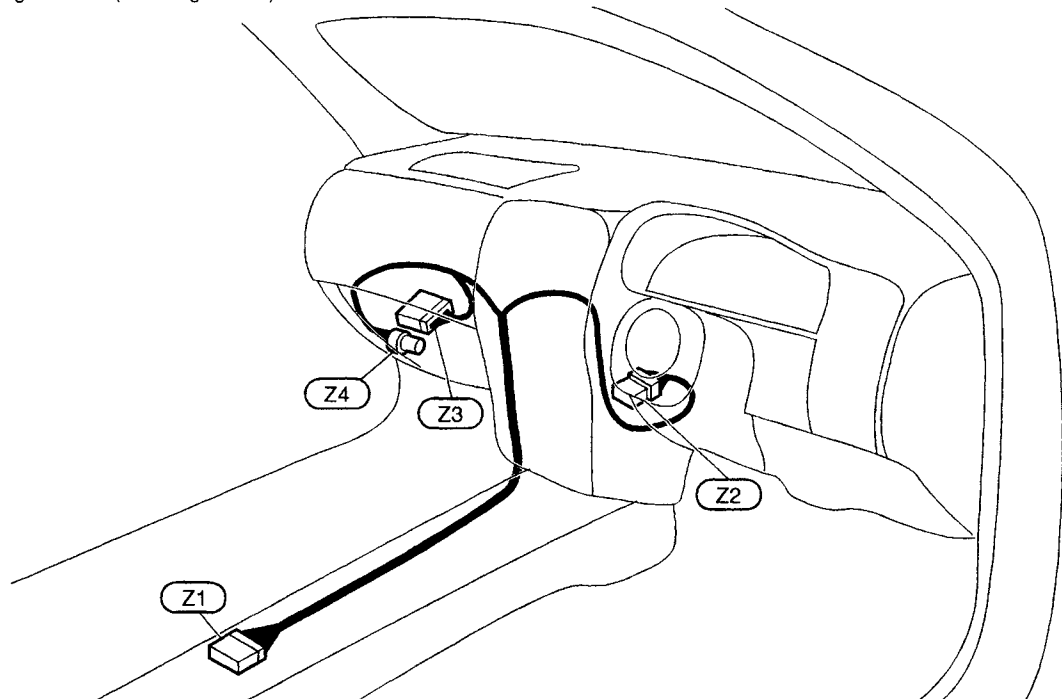
- Z1** Y/24 : Air bag diagnosis sensor unit
- Z2** Y/6 : Spiral cable
- Z3** Y/12 : To **M62**
- Z4** Y/2 : Air bag module (Passenger side)



HEL180

RHD MODELS

- Z1** Y/24 : Air bag diagnosis sensor unit
- Z2** Y/6 : Spiral cable
- Z3** Y/12 : To **M62**
- Z4** Y/2 : Air bag module (Passenger side)



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