ELECTRICAL SYSTEM

SECTION EL

When you read wiring diagrams:
- **Read GI section, "HOW TO READ WIRING DIAGRAMS".**

CONTENTS

CONTENTS (Cont'd.)

WIRING DIAGRAM REFERENCE CHART

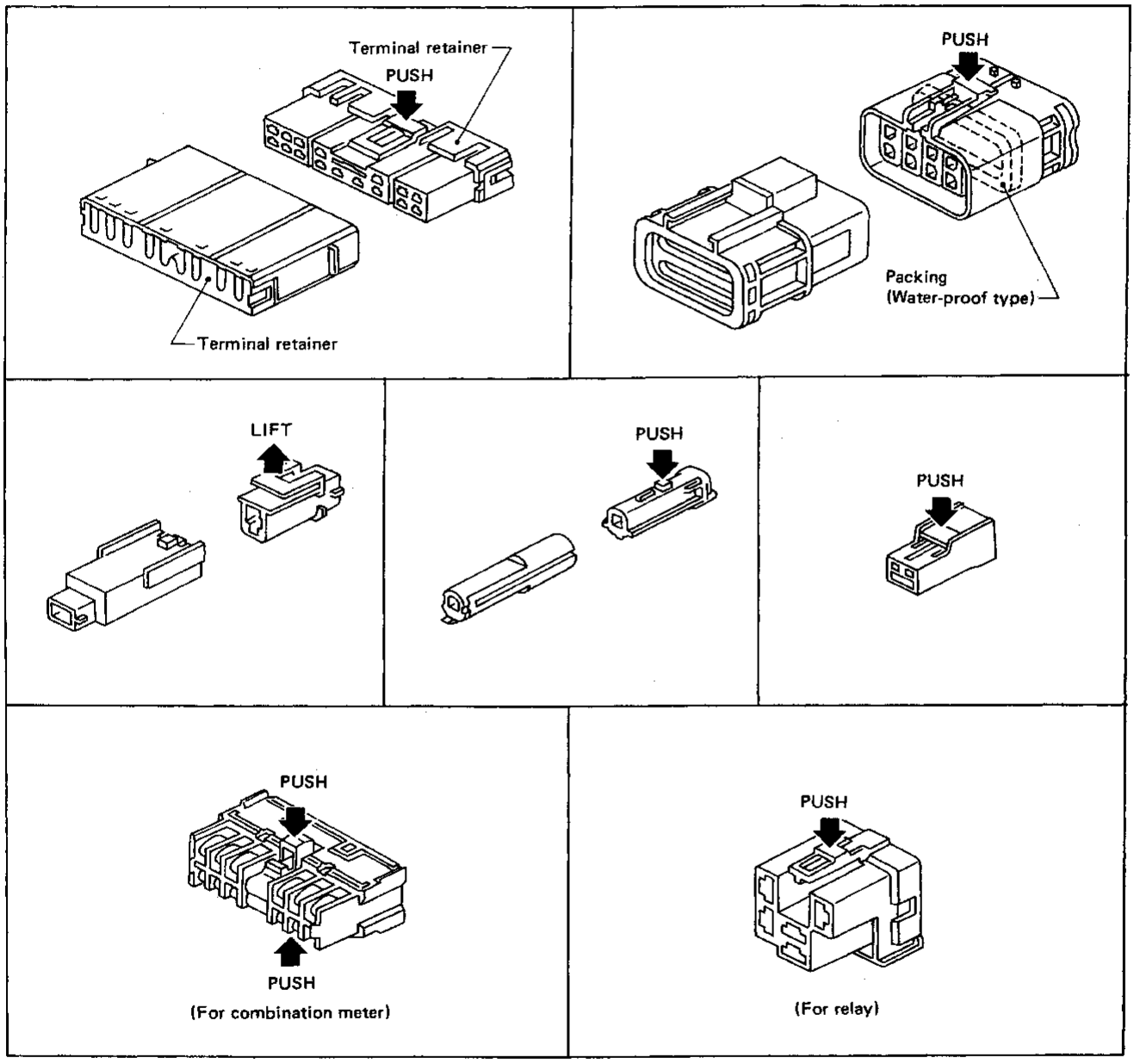
Description

HARNESS CONNECTOR

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

CAUTION:
Do not pull the harness when disconnecting the connector.

[Example]

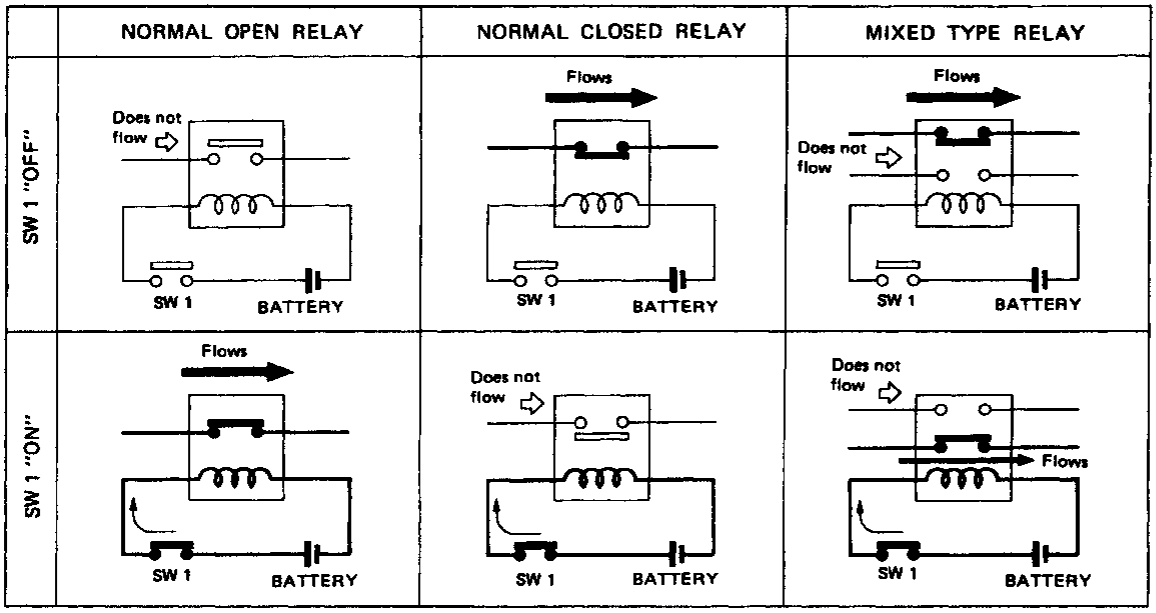


SEL769D

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

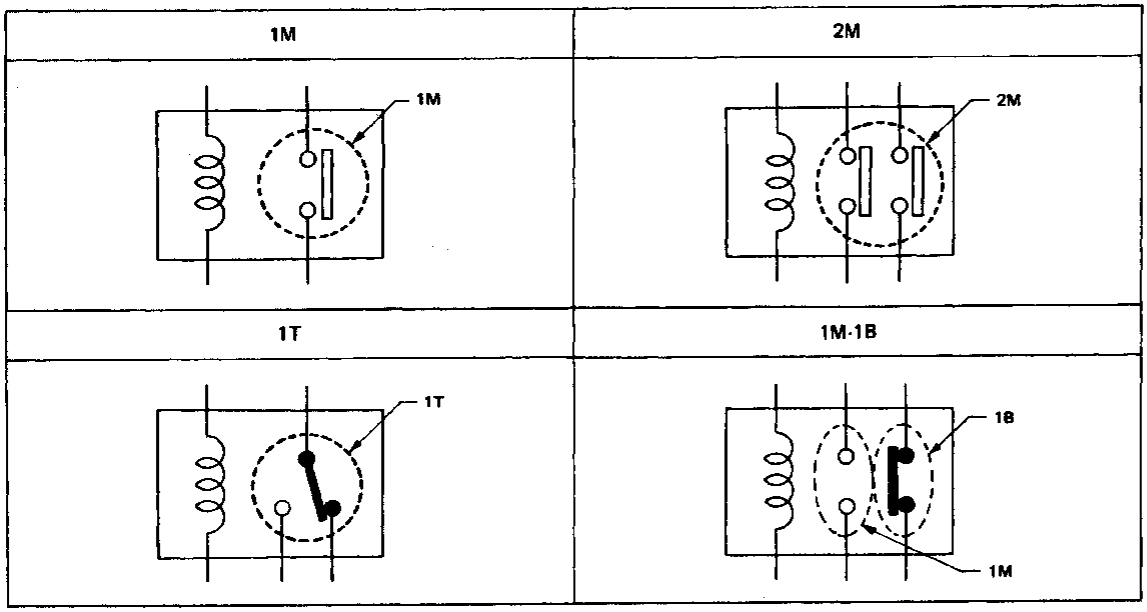
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

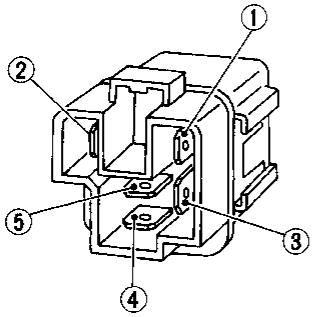
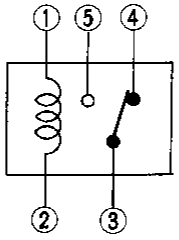
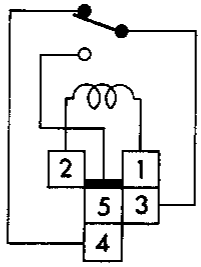
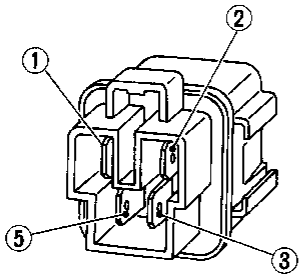
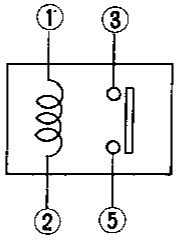
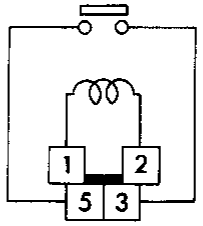
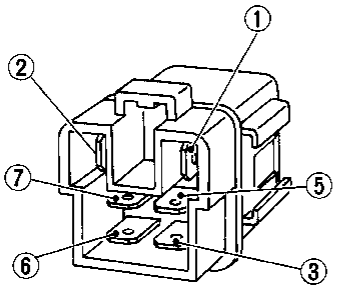
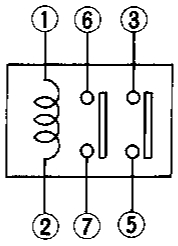
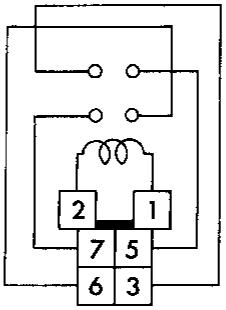
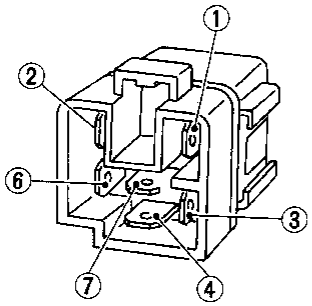
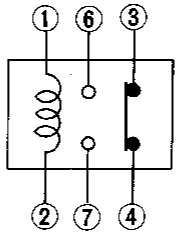
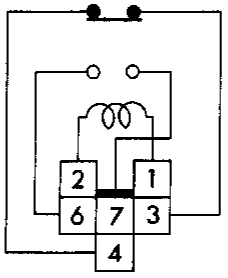
TYPE OF STANDARDIZED RELAY

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



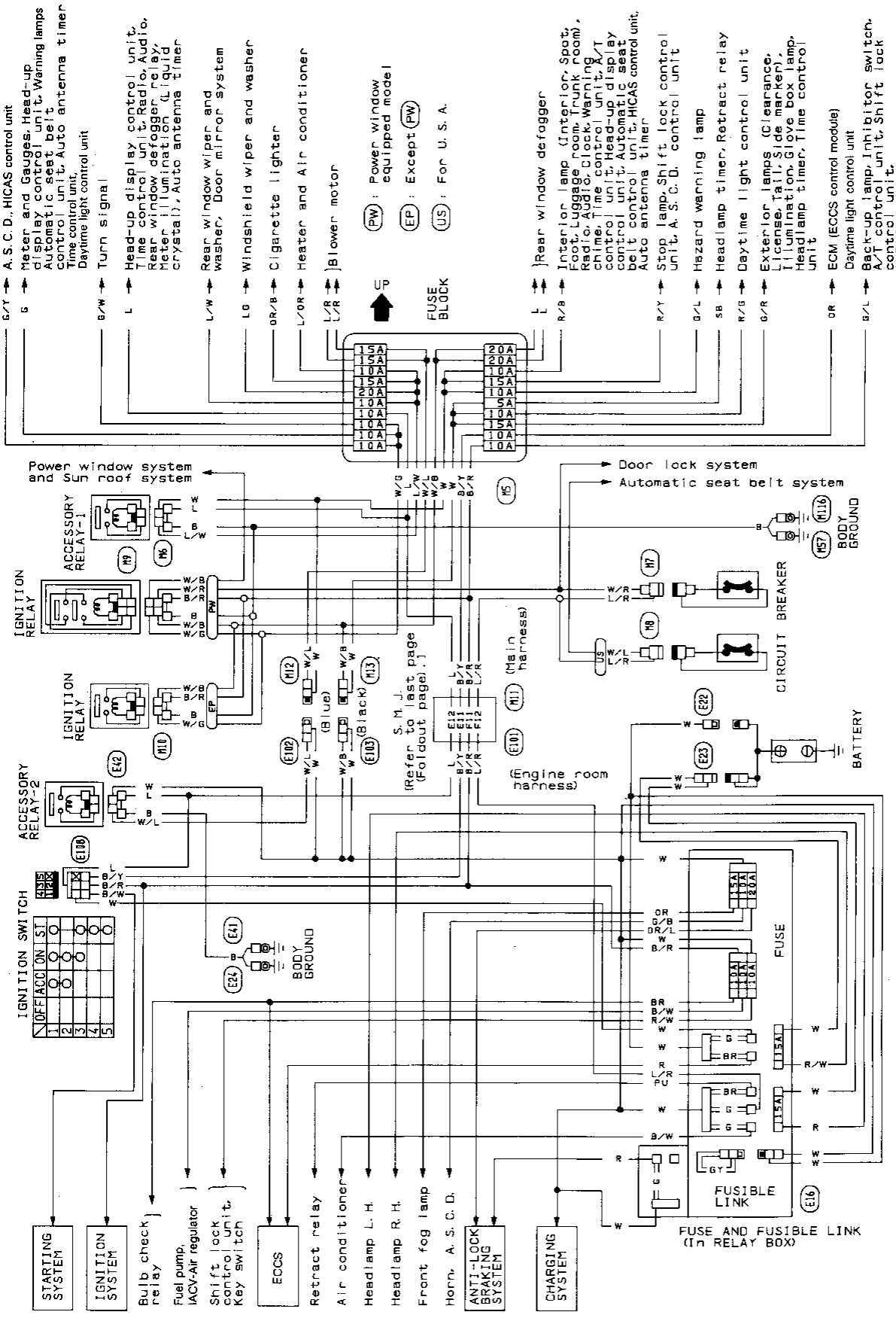
SEL882H

Description (Cont'd)

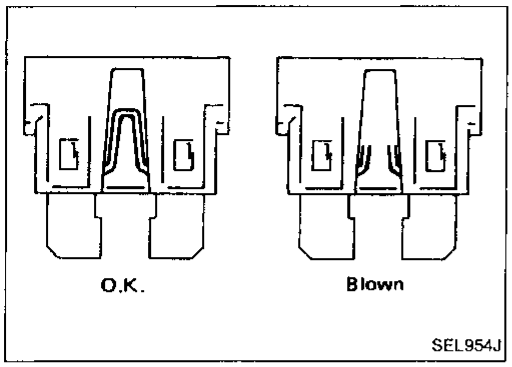
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
1M				BLUE or GREEN
2M				BROWN
1M·1B				GRAY

SEL883H

Wiring Diagram

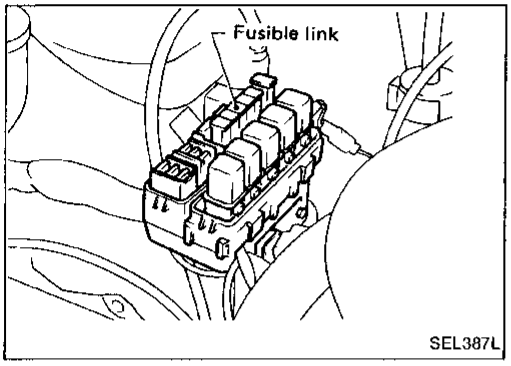


MEL712B



Fuse

a. **If fuse is blown, be sure to eliminate cause of problem before installing new fuse.**
b. **Use fuse of specified rating. Never use fuse of more than specified rating.**
c. **Do not install fuse in oblique direction; always insert it into fuse holder properly.**
d. **Remove fuse for clock if vehicle is not used for a long period of time.**



Fusible Link

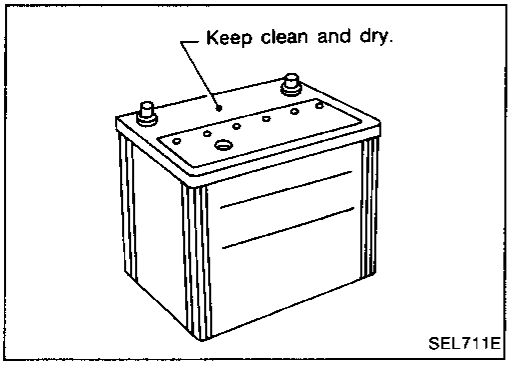
A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

CAUTION:

a. **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of problem.**
b. **Never wrap periphery of fusible link with vinyl tape. Extreme care should be taken with this link to ensure that it does not come into contact with any other wiring harness or vinyl or rubber parts.**

CAUTION:

a. **If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.**
b. **After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.**
c. **Never add distilled water through the hole used to check specific gravity.**

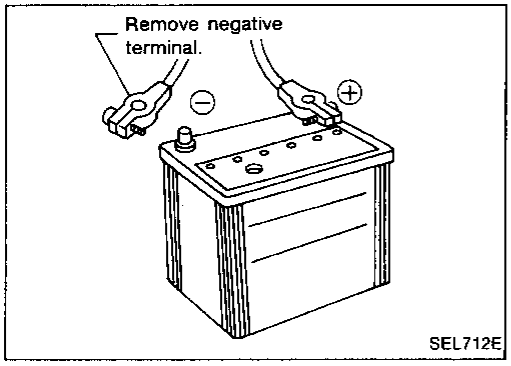


How to Handle Battery

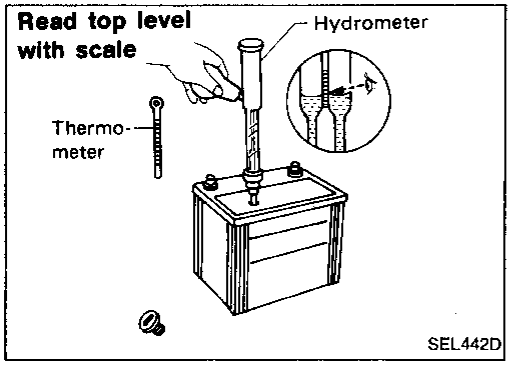
METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a battery.

- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level.



- When the vehicle is not going to be used over a long period of time, disconnect the negative battery terminal. (If the vehicle has an extended storage switch, turn it off.)



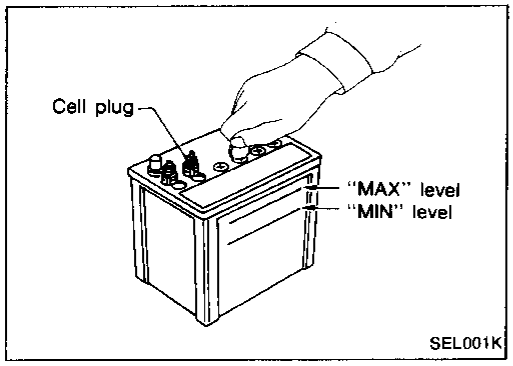
- Check the charge condition of the battery.
  Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.

CHECKING ELECTROLYTE LEVEL

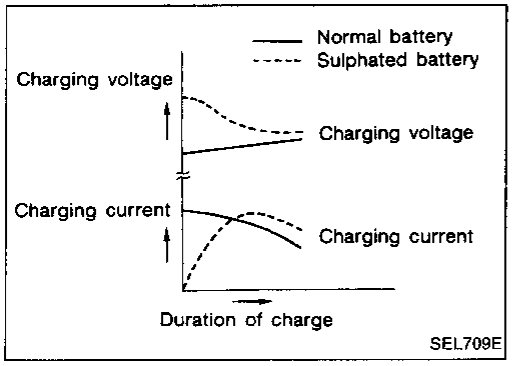
WARNING:

Do not allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, do not touch or rub your eyes until you have thoroughly washed your hands. If the acid contacts the eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

How to Handle Battery (Cont'd)



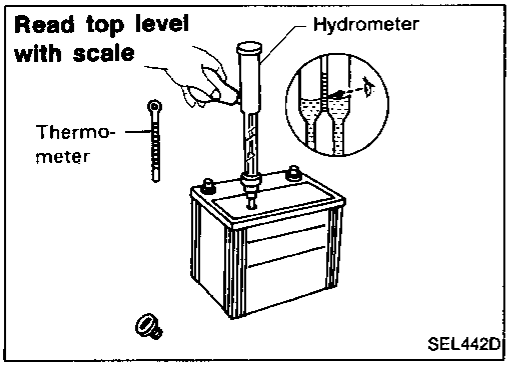
- Remove the cell plug using a suitable tool.
- Add distilled water up to the MAX level.



SULPHATION

When a battery has been left unattended for a long period of time and has a specific gravity of less than 1.100, it will be completely discharged, resulting in sulphation on the cell plates.

Compared with a battery discharged under normal conditions, the current flow in a "sulphated" battery is not as smooth although its voltage is high during the initial stage of charging, as shown in the figure at the left.



SPECIFIC GRAVITY CHECK

1. Read hydrometer and thermometer indications at eye level.

How to Handle Battery (Cont'd)

- Use the chart below to correct your hydrometer reading according to electrolyte temperature.

Hydrometer temperature correction

Battery electrolyte temperature °C (°F)	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (129)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	−0.004
16 (60)	−0.008
10 (50)	−0.012
4 (39)	−0.016
−1 (30)	−0.020
−7 (20)	−0.024
−12 (10)	−0.028
−18 (0)	−0.032

Corrected specific gravity	Approximate charge condition
1.260 - 1.280	Fully charged
1.230 - 1.250	3/4 charged
1.200 - 1.220	1/2 charged
1.170 - 1.190	1/4 charged
1.140 - 1.160	Almost discharged
1.110 - 1.130	Completely discharged

CHARGING THE BATTERY

CAUTION:

a. Do not "quick charge" a fully discharged battery.

b. Keep the battery away from open flame while it is being charged.

c. When connecting the charger, connect the leads first, then turn on the charger. Do not turn on the charger first, as this may cause a spark.

d. If battery electrolyte temperature rises above 60°C (140°F), stop charging. Always charge battery at a temperature below 60°C (140°F).

Charging rates:

Amps	Time
50	1 hour
25	2 hours
10	5 hours
5	10 hours

How to Handle Battery (Cont'd)

Do not charge at more than 50 ampere rate.

Note: The ammeter reading on your battery charger will automatically decrease as the battery charges. This indicates that the voltage of the battery is increasing normally as the state of charge improves. The charging amps indicated above refer to initial charge rate.

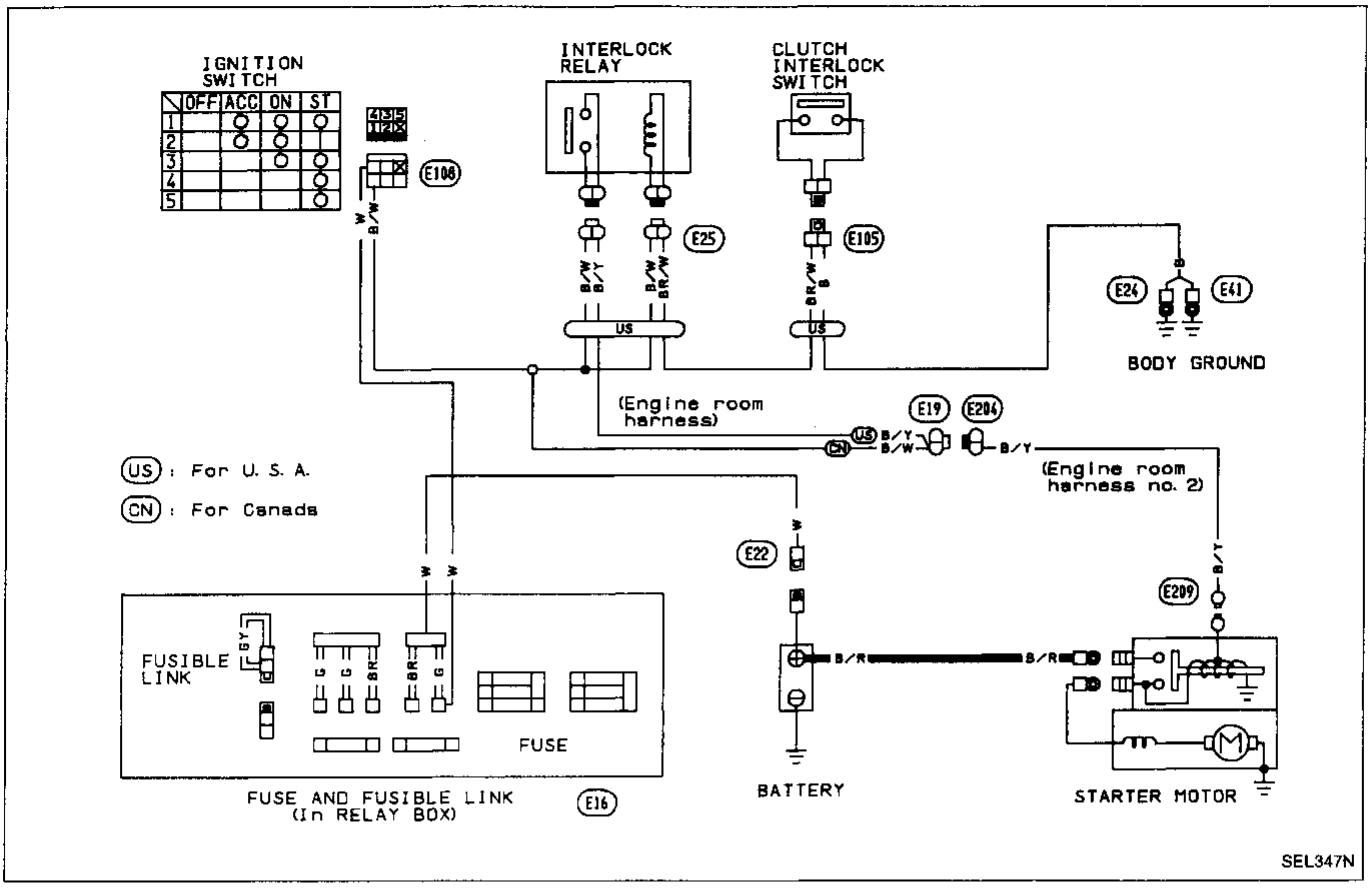
- If, after charging, the specific gravity of any two cells varies more than .050, the battery should be replaced.

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

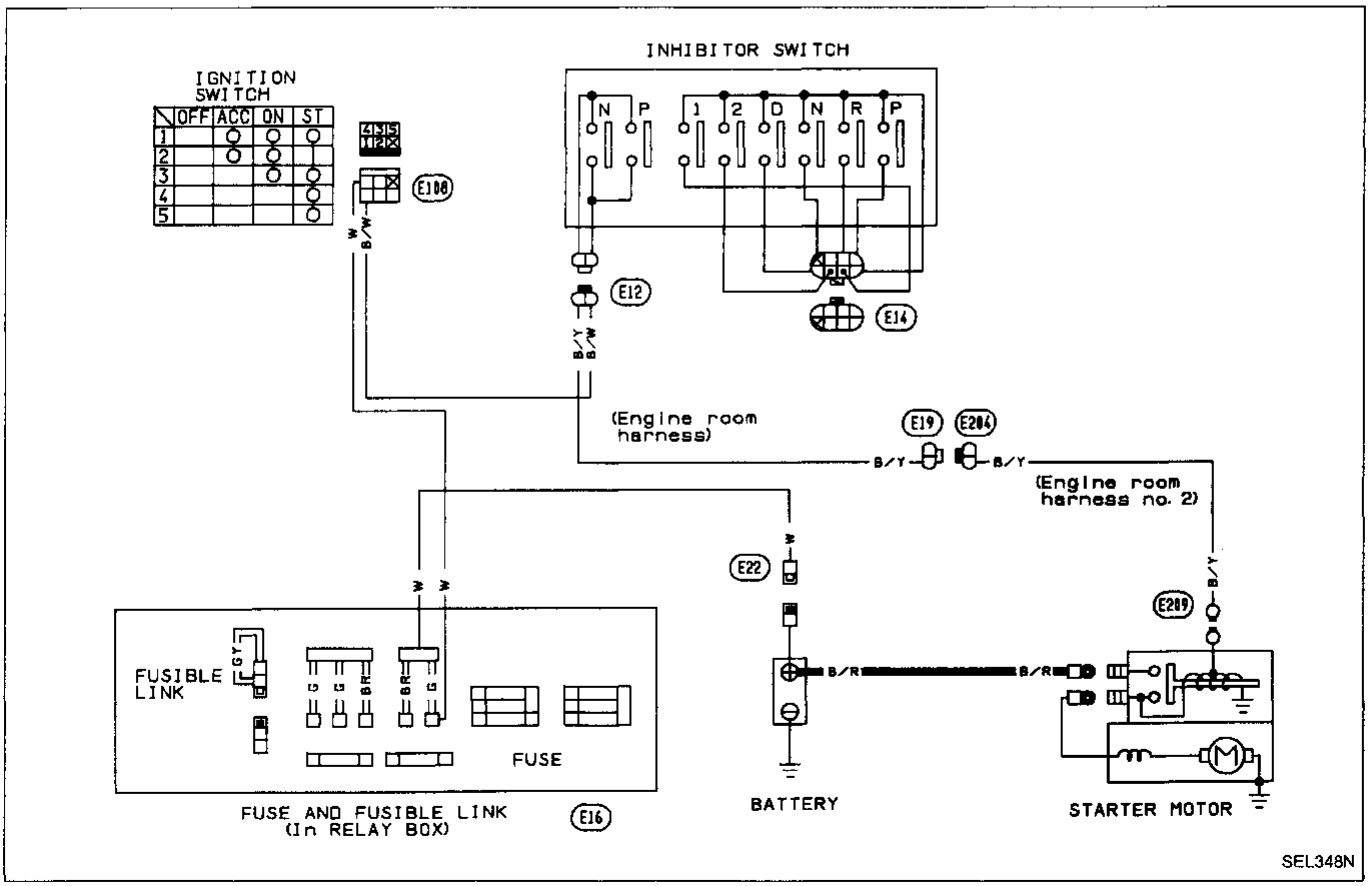
Applied area		U.S.A.	Canada
Type		55D23R	65D26R
Capacity	V-AH	12-60	12-65
Cold cranking current (For reference value)	A	356	413

M/T MODEL

Wiring Diagram

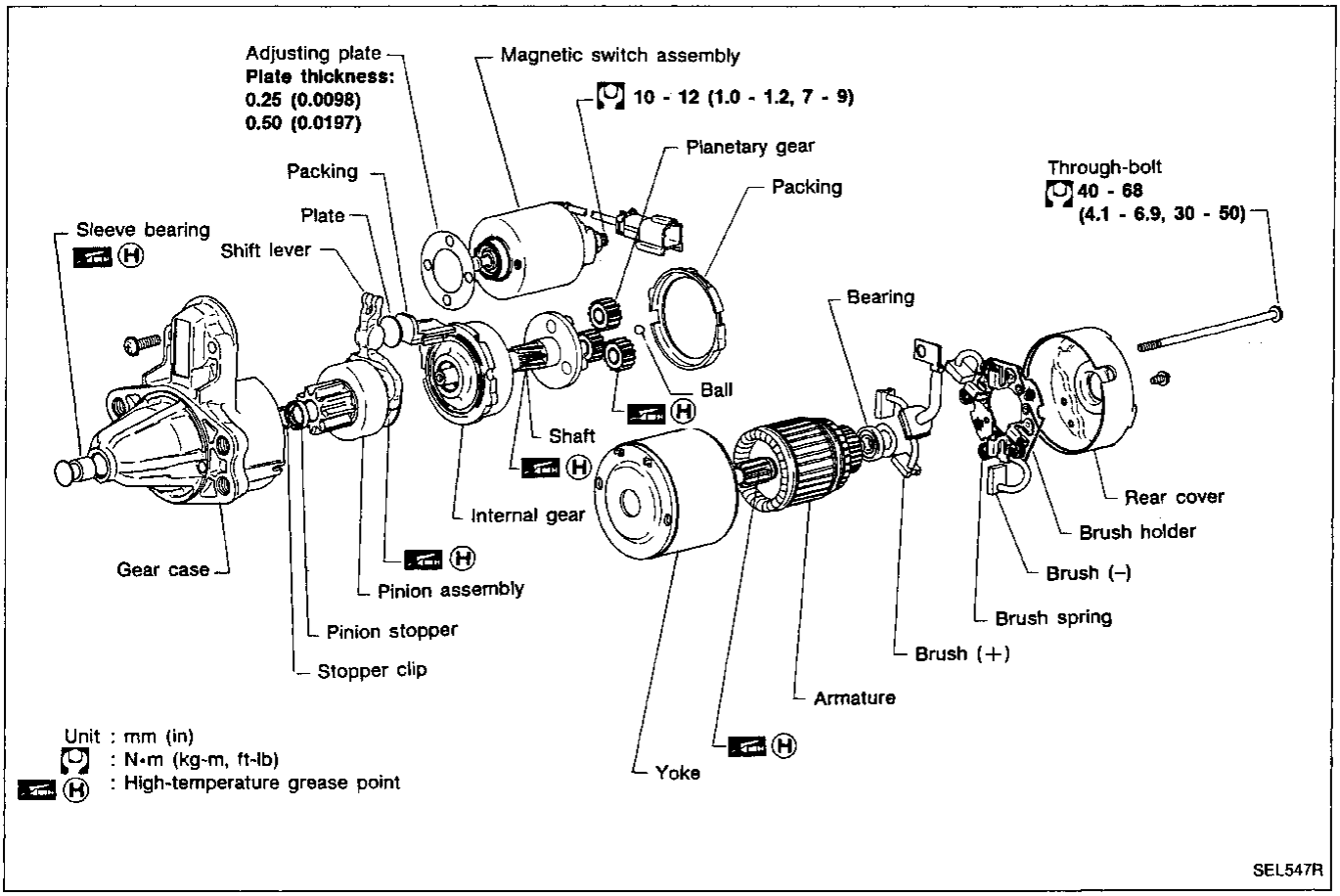


A/T MODEL



Construction

M1T72781A

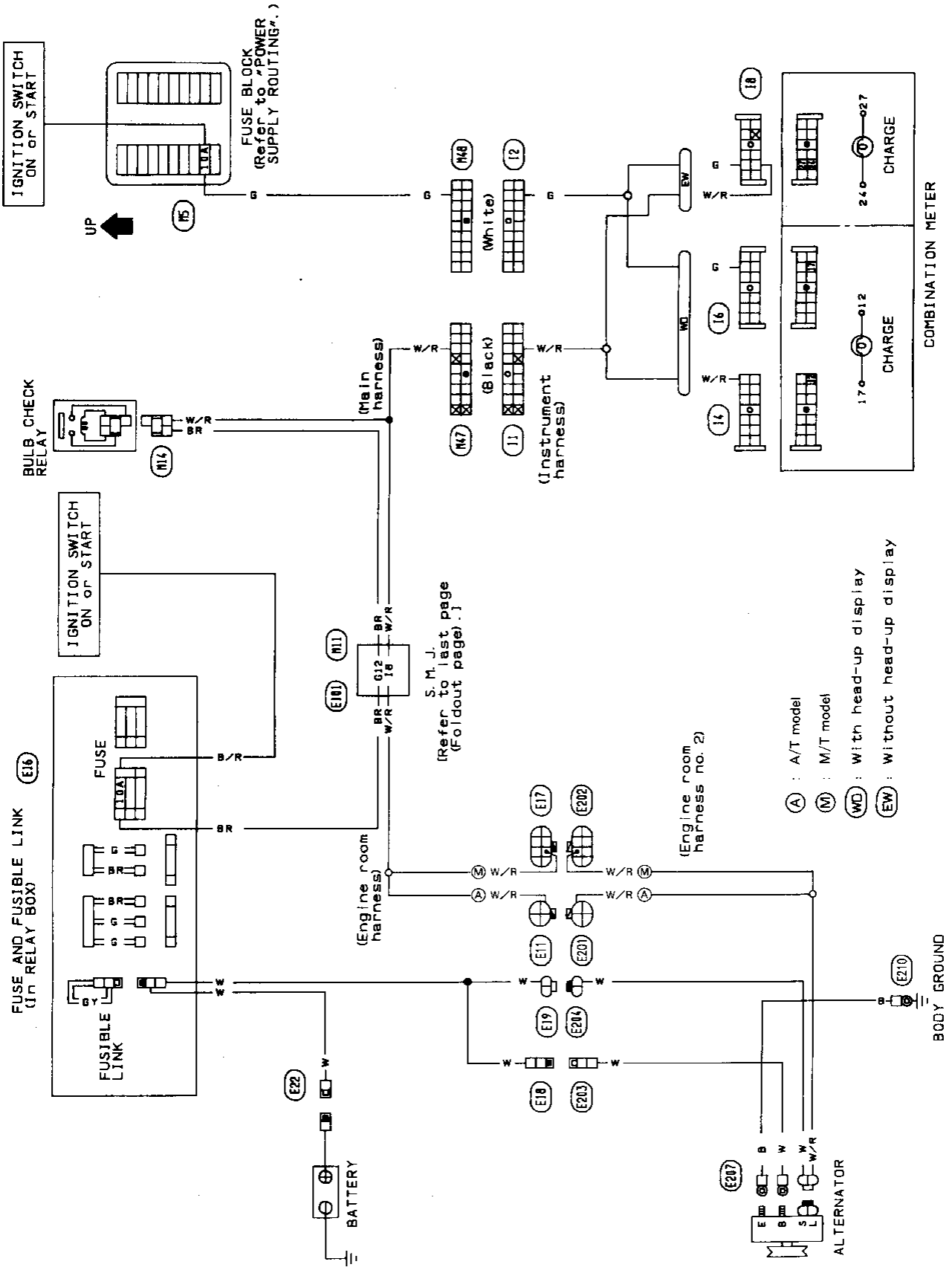


Service Data and Specifications (S.D.S.)

STARTER

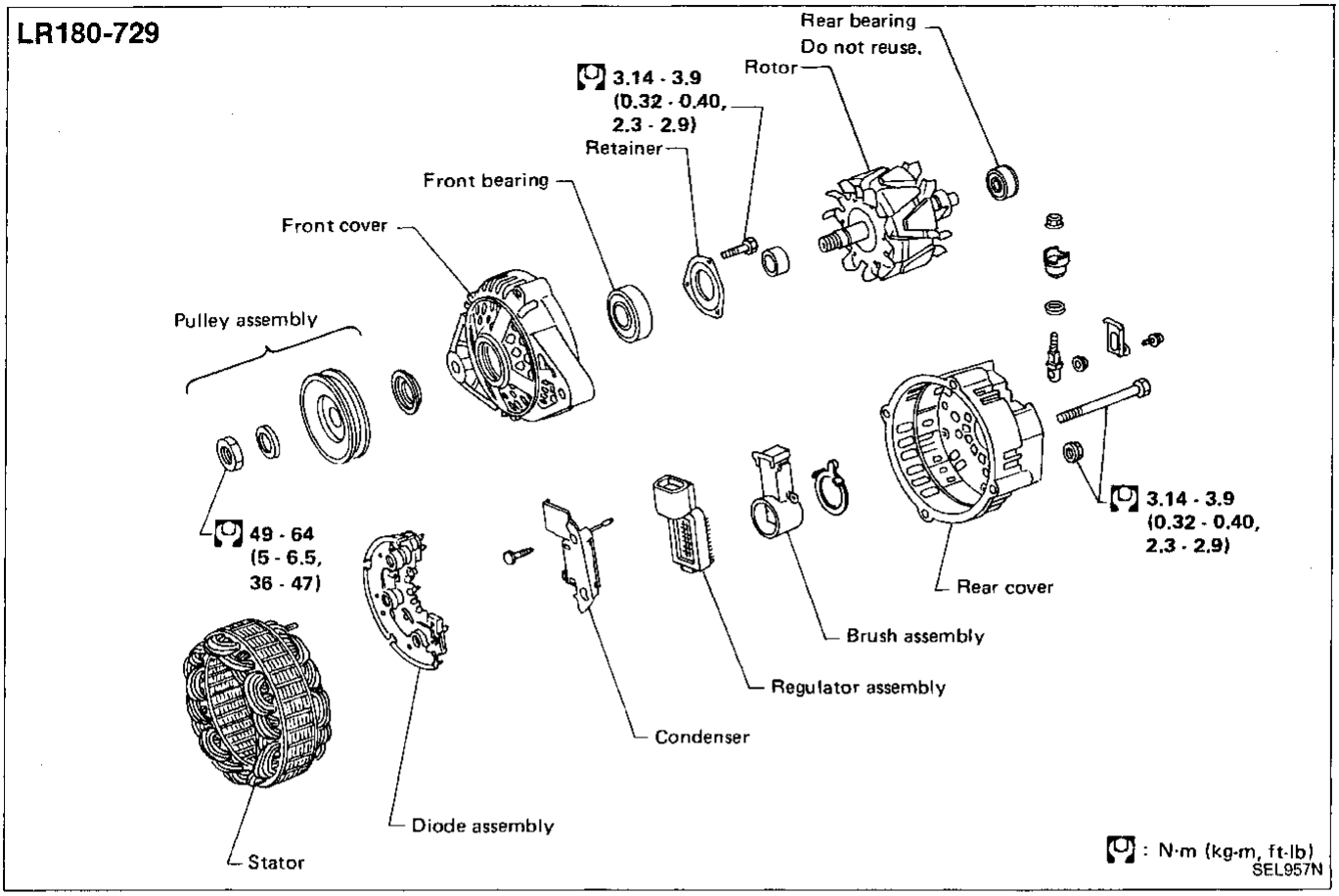
Type		M1T72781A
		MITSUBISHI make
		Reduction gear type
System voltage	V	12
No-load		
Terminal voltage	V	11.0
Current	A	50 - 75
Revolution	rpm	3,000 - 4,000
Minimum diameter of commutator	mm (in)	28.8 (1.134)
Minimum length of brush	mm (in)	12.0 (0.472)
Brush spring tension	N (kg, lb)	13.7 - 25.5 (1.4 - 2.6, 3.1 - 5.7)
Clearance between pinion front edge and pinion stopper	mm (in)	0.5 - 2.0 (0.020 - 0.079)

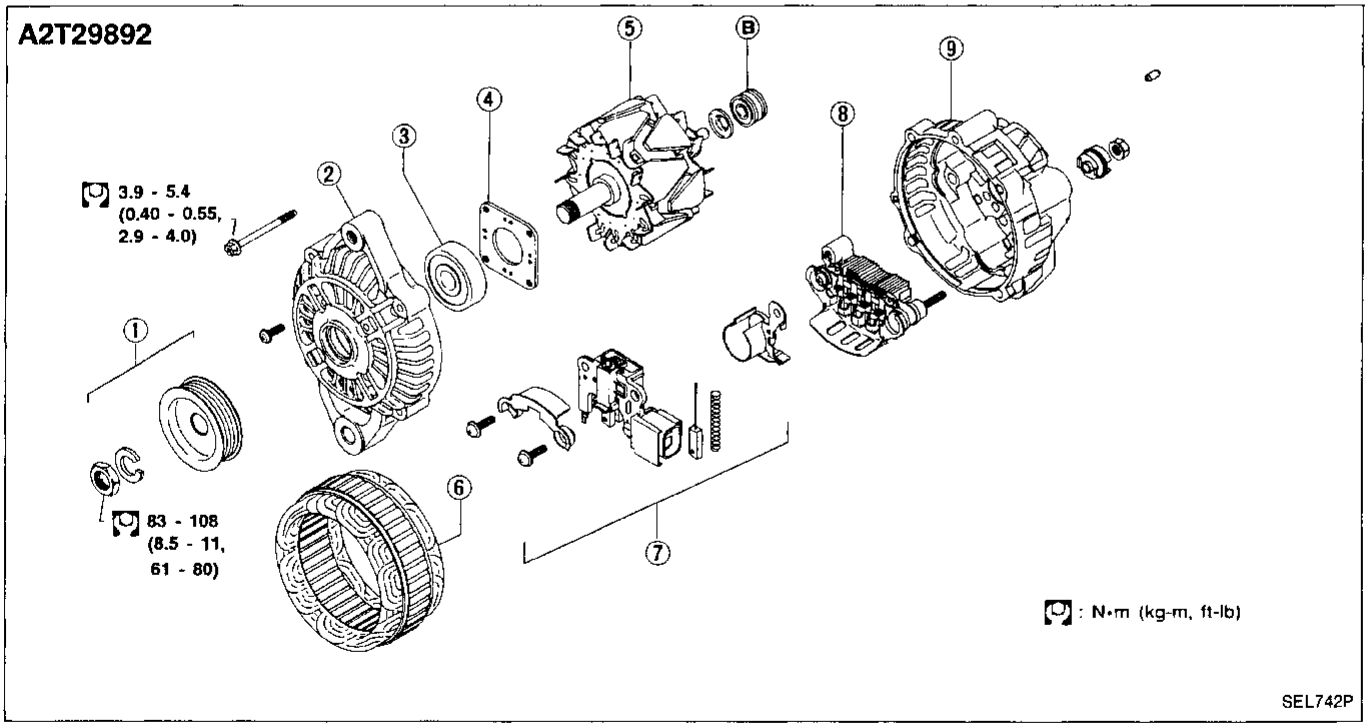
Wiring Diagram



SEL807P

Construction





① Pulley assembly
② Front cover
③ Front bearing
④ Bearing retainer
⑤ Rotor
⑥ Stator
⑦ I.C. regulator
⑧ Diode assembly
⑨ Rear cover
Ⓐ Brush holder assembly
Ⓑ Rear bearing

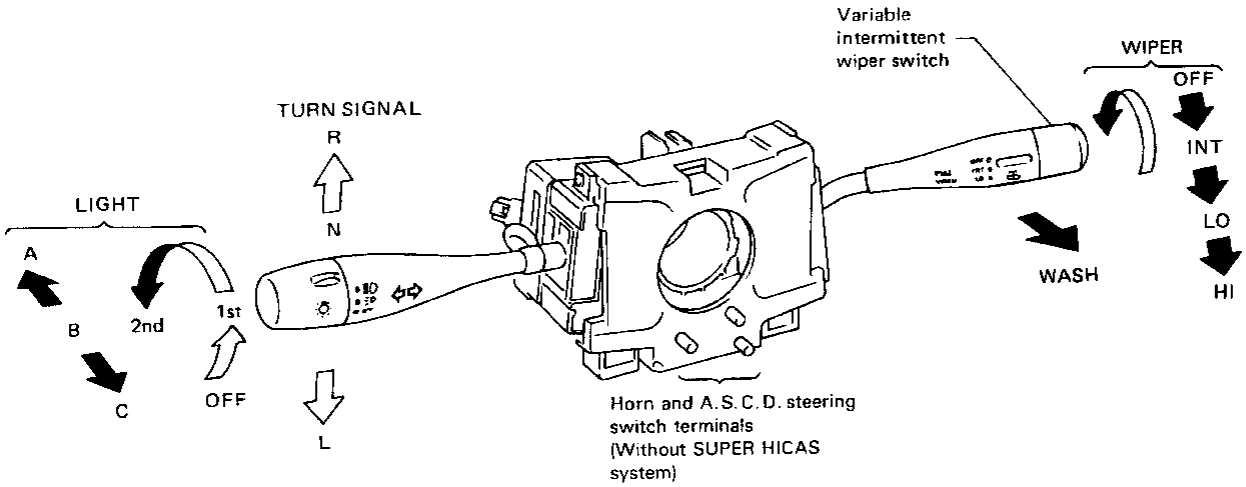
GI MA EM LC EF & EC FE CL MT AT PD FA RA BR ST BF HA EL

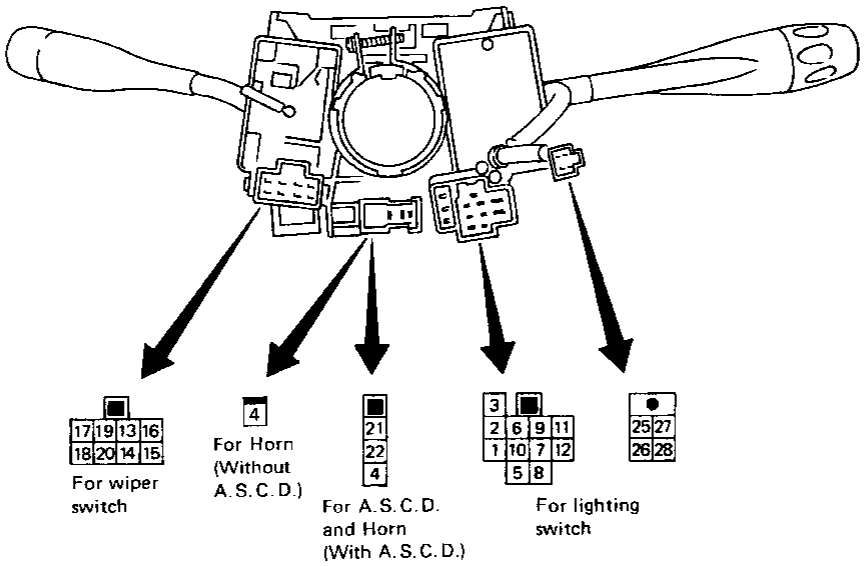
Service Data and Specifications (S.D.S.)

ALTERNATOR

Type		LR180-729	A2T29892
		HITACHI make	MITSUBISHI make
Nominal rating	V-A	12 - 80	
Ground polarity		Negative	
Minimum revolution under no-load (When 13.5 volts is applied)	rpm	Less than 950	1,100
Hot output current	A/rpm	More than 23/1,300 More than 63/2,500 More than 77/5,000	More than 21/1,300 More than 60/2,500
Regulated output voltage	V	14.1 - 14.7	
Minimum length of brush	mm (in)	6.0 (0.236)	8 (0.31)
Brush spring pressure	N (g, oz)	1.000 - 3.432 (102 - 350, 3.60 - 12.34)	3.138 - 4.315 (320 - 440, 11.29 - 15.52)
Slip ring minimum outer diameter	mm (in)	26.0 (1.024)	22.1 (0.870)

Combination Switch/Check





LIGHTING SWITCH

	OFF			1			2		
	A	B	C	A	B	C	A	B	C
5			○			○	○	○	○
6			○			○	○	○	○
7								○	
8			○				○	○	○
9			○				○	○	○
10								○	
11				○	○	○	○	○	○
12				○	○	○	○	○	○
25							○	○	○
26							○	○	○
27	○	○	○	○	○	○			
28	○	○	○	○	○	○			

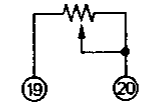
WIPER SWITCH

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

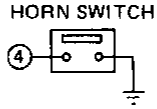
	R	N	L
1	○		○
2	○		
3			○

TURN SIGNAL SWITCH

INTERMITTENT WIPER VOLUME



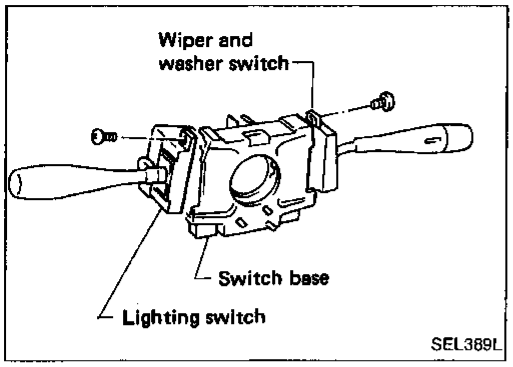
HORN SWITCH



A.S.C.D. STEERING SWITCH

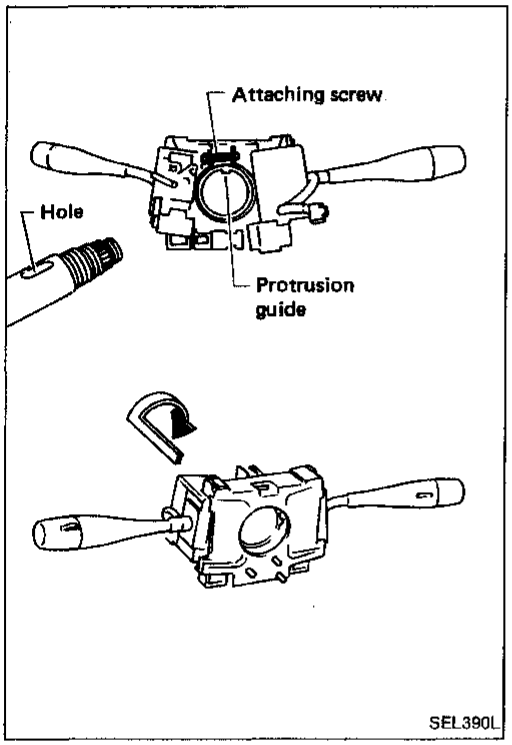
	RESUME ACCEL	N	SET COAST	OFF	CANCEL
4	○		○		○
22			○		
21	○				○

SEL884P



Replacement

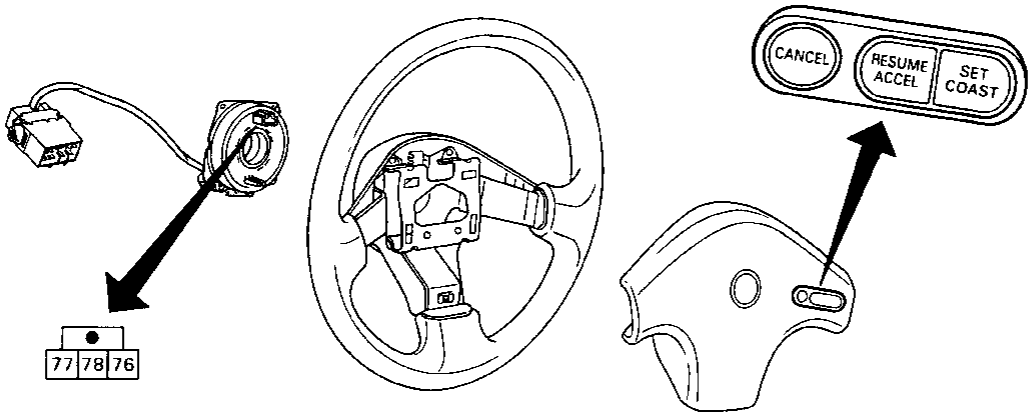
- Each switch can be replaced without removing combination switch base.

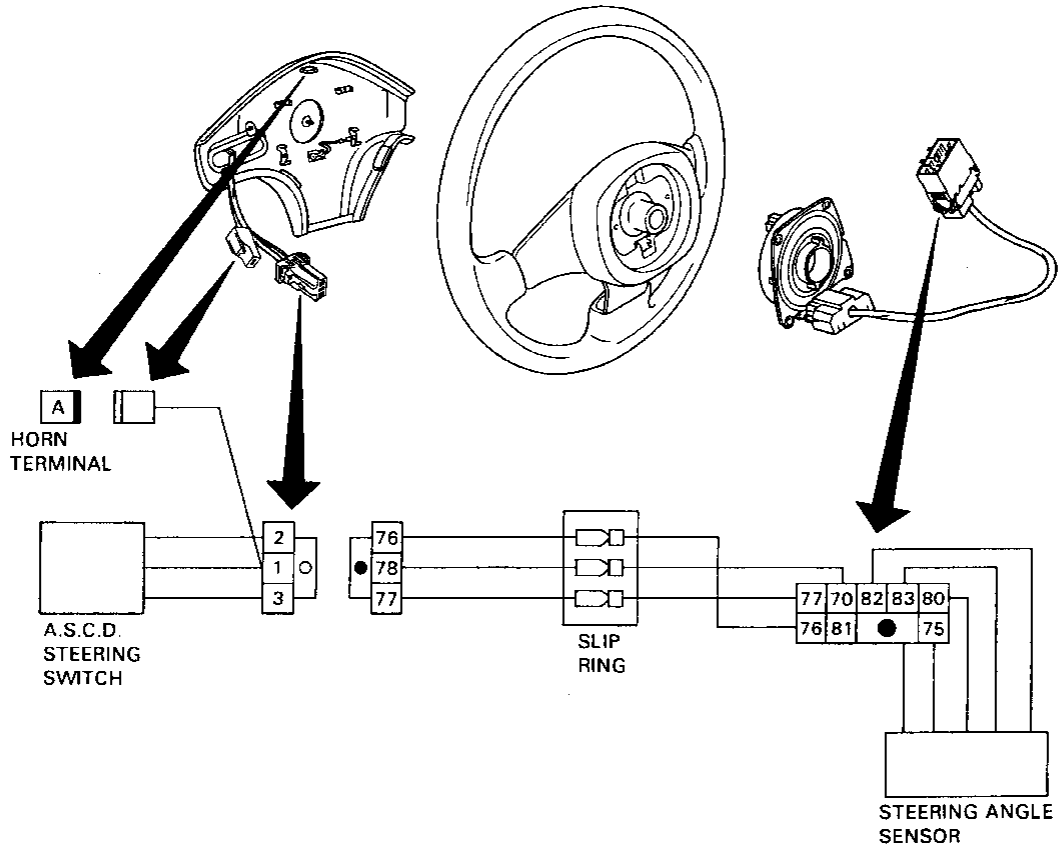


- To remove combination switch base, remove base attaching screw and turn after pushing on it.

Steering Switch/Check

WITH SUPER HICAS SYSTEM

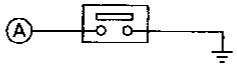




A.S.C.D. STEERING SWITCH

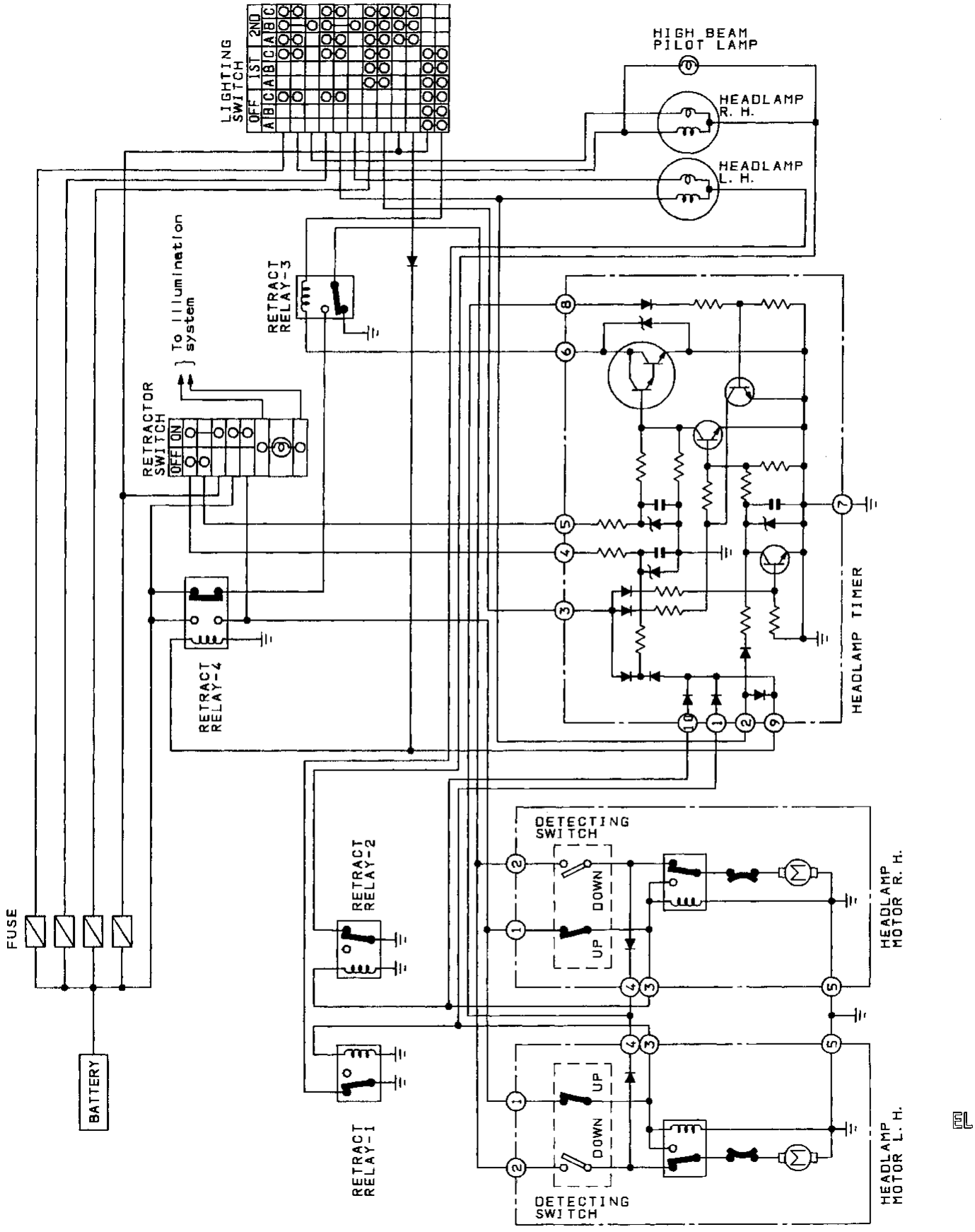
	RESUME ACCEL	N	SET COAST	OFF	CANCEL
1	○		○		○
2			○		○
3	○				○

HORN SWITCH



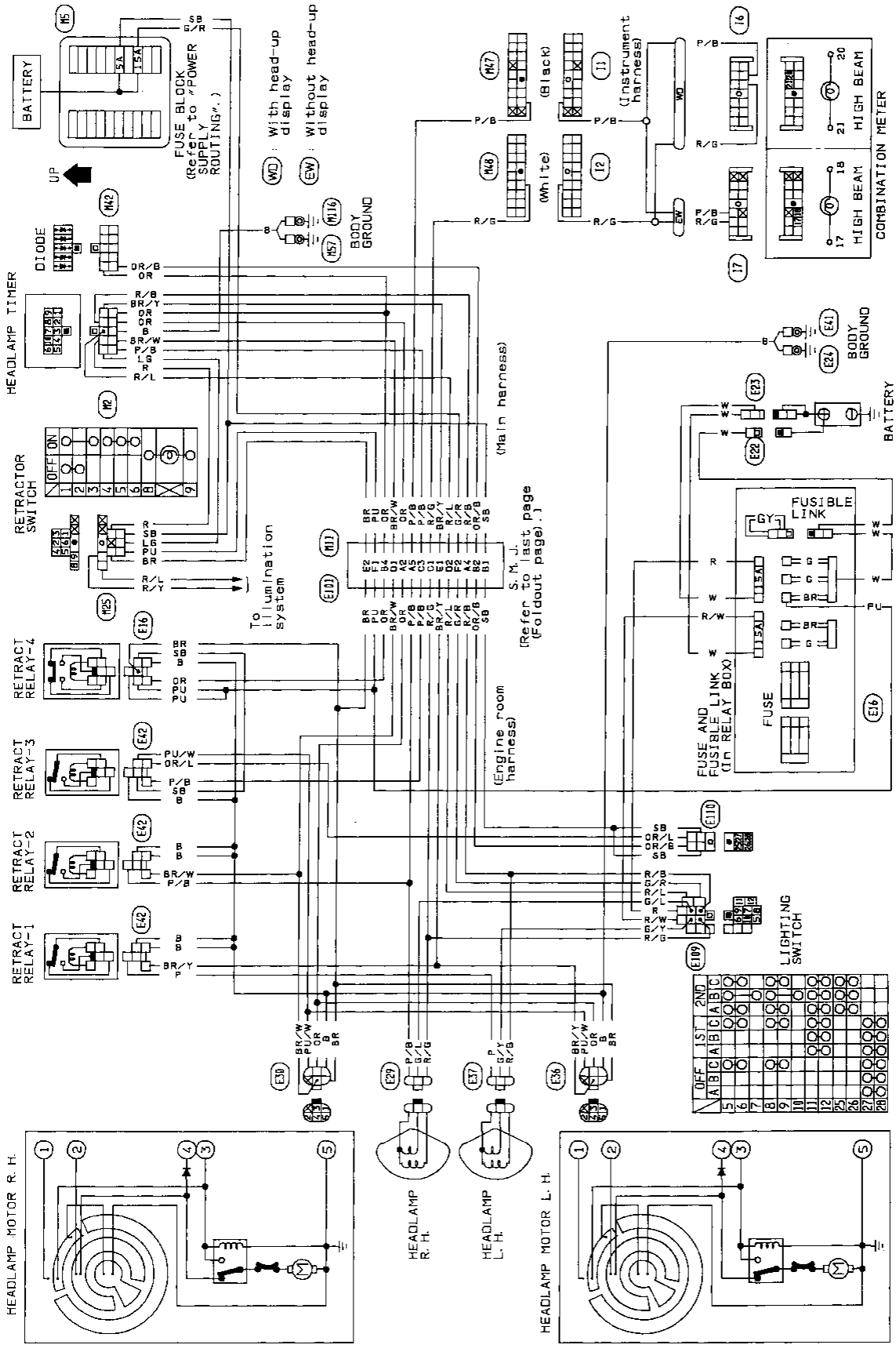
SEL885P

Schematic



SEL469L

Wiring Diagram



SEL349N

Description

BASIC OPERATION

Condition		Operation		
Lighting switch	Retractor switch	C/O*	Headlamp motor	Headlamps
OFF → 1ST	OFF		No operation	OFF
1ST → 2ND	OFF	[A]	Open	ON after headlamp motor reaches fully open position.
2ND → 1ST	OFF		Held to open position	OFF
1ST → OFF	OFF	[B]	Closed	OFF
Momentarily turned to PASSING	OFF	[C]	Opened and closed after headlamps go off.	Momentarily ON after headlamp motor reaches fully open position, and go off.
OFF	ON	[D]	Open	OFF

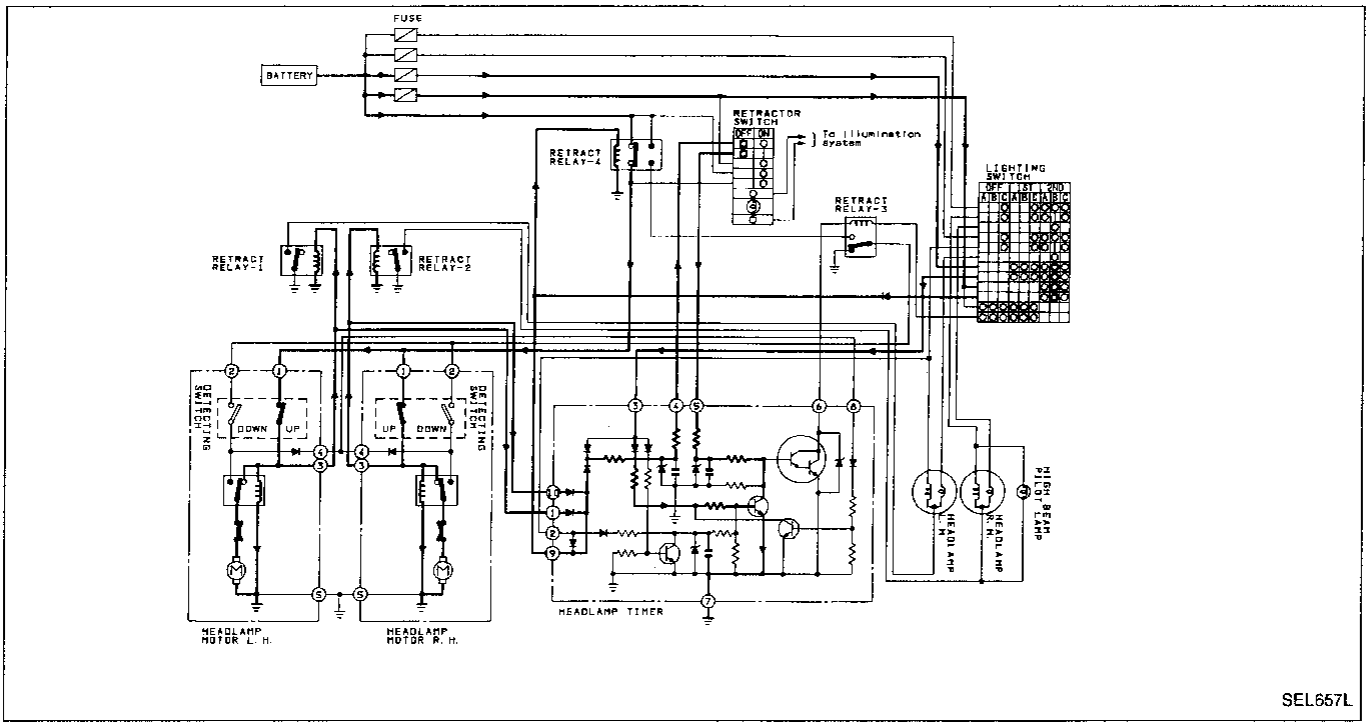
*: Refer to CIRCUIT OPERATION.

Description (Cont'd)

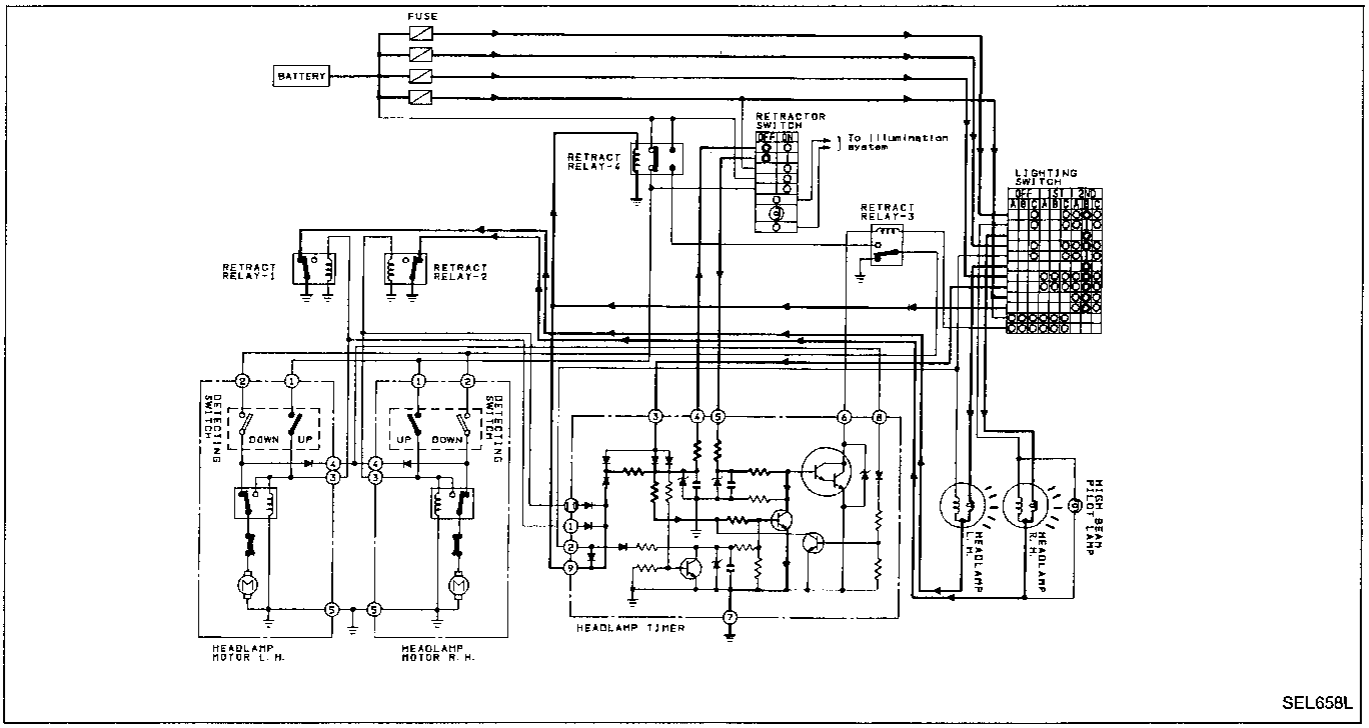
CIRCUIT OPERATION

[A] When lighting switch is switched from "1ST" → "2ND"

A-1: While operating the headlamp motor to open position

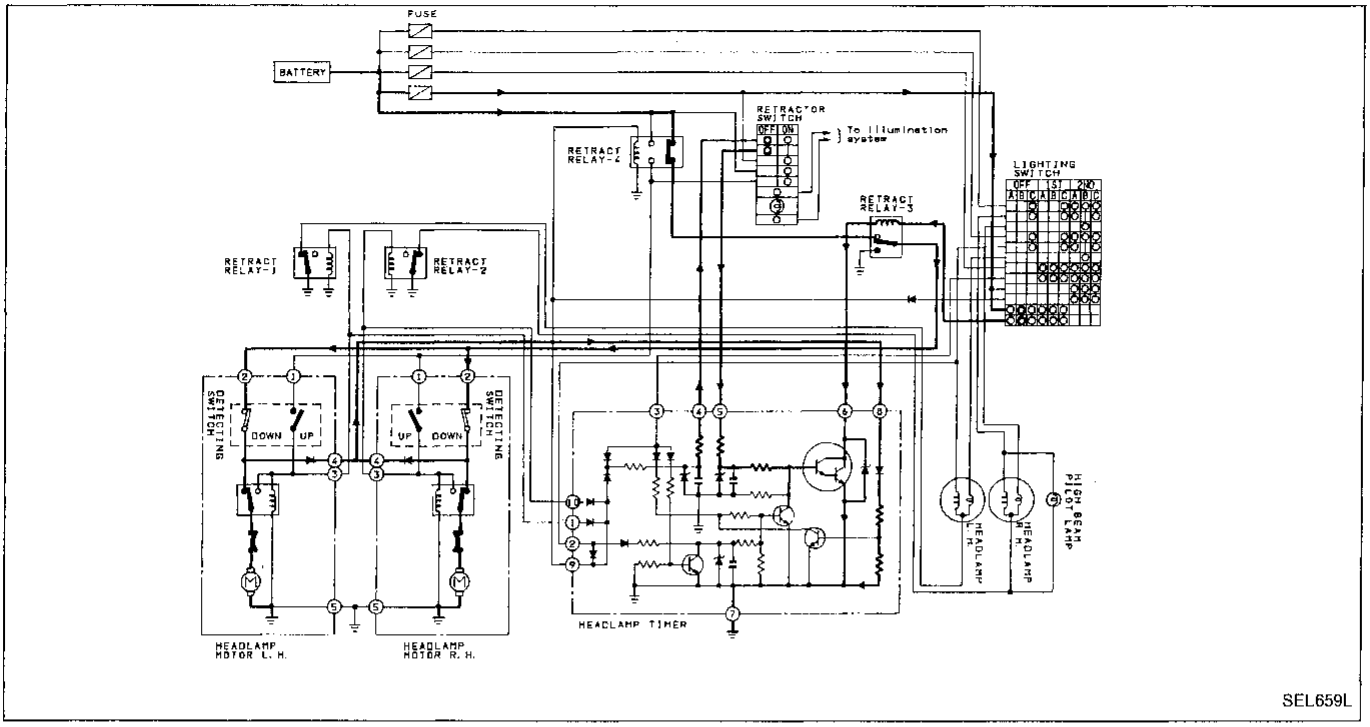


A-2: After the headlamp motor reaches fully open position

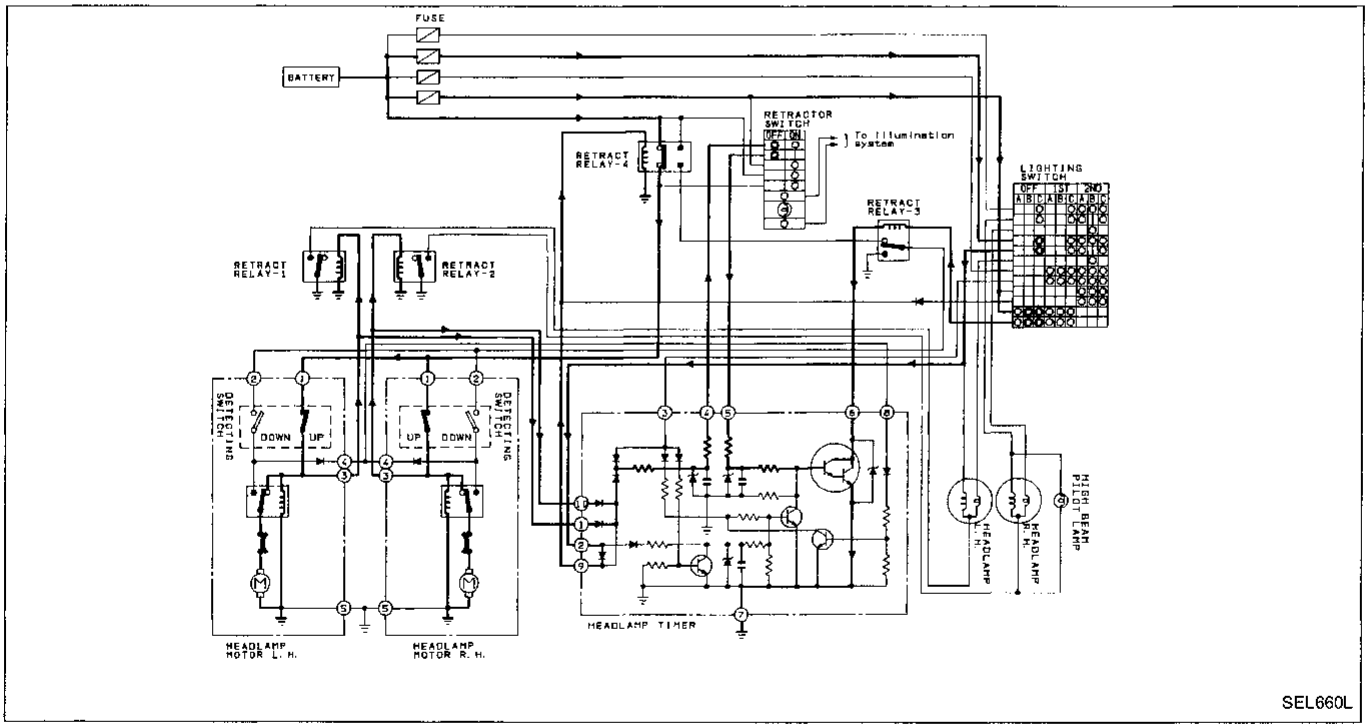


Description (Cont'd)

[B] When lighting switch is switched from "1ST" → "OFF"
(While operating the headlamp motor to closed position)

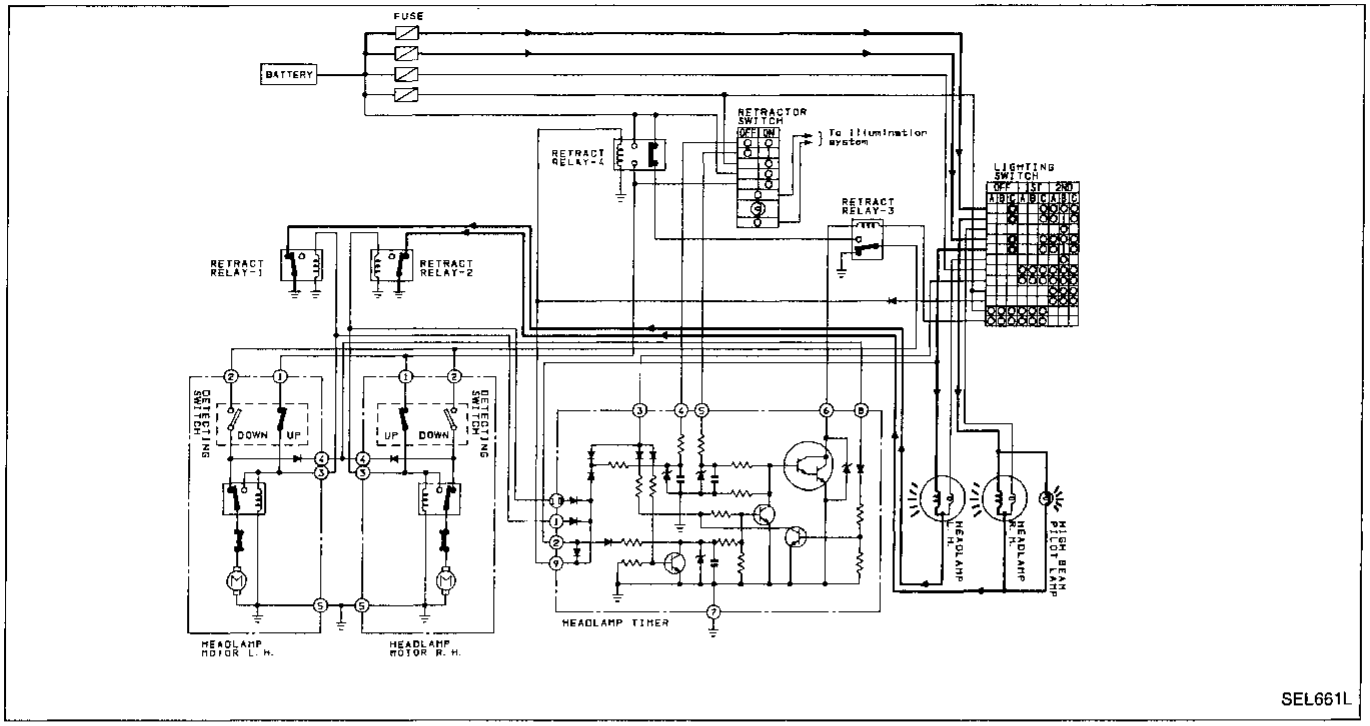


[C] When lighting switch is switched to "PASSING"
C-1: While operating the headlamp motor to open position



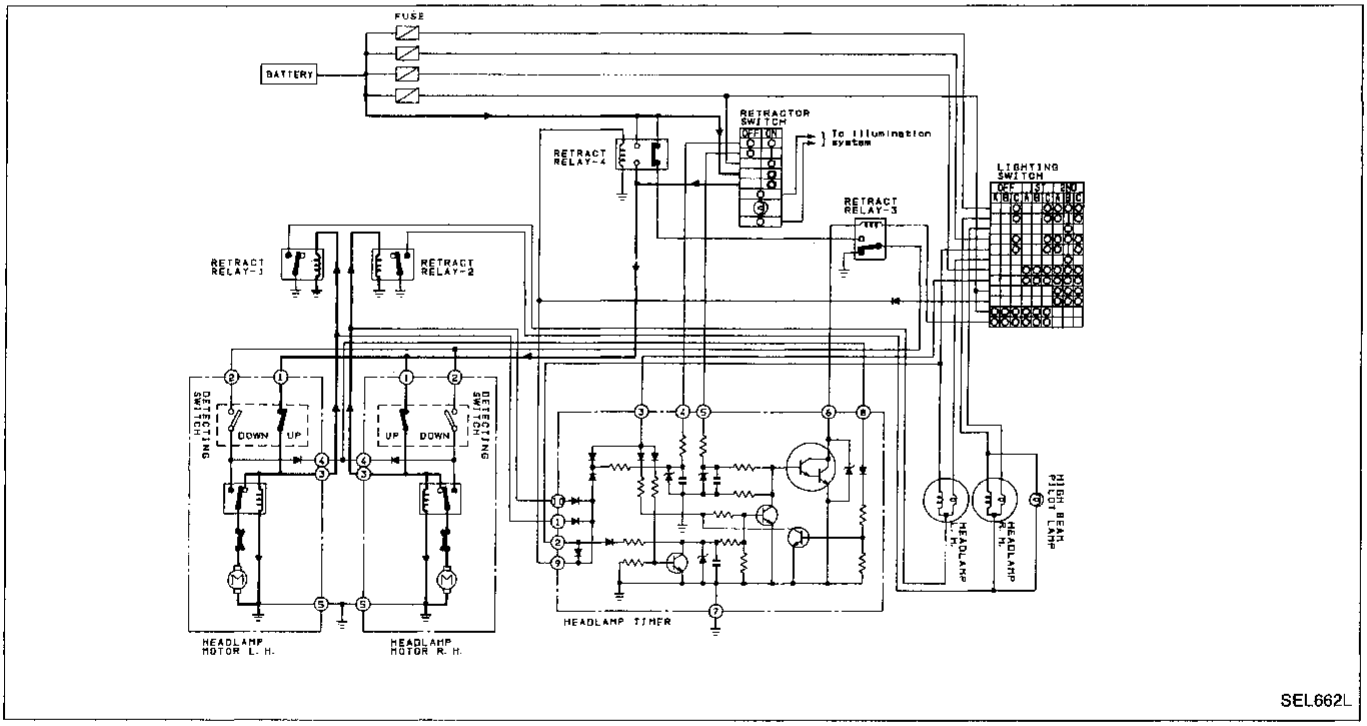
Description (Cont'd)

C-2: After the headlamp reaches fully open position



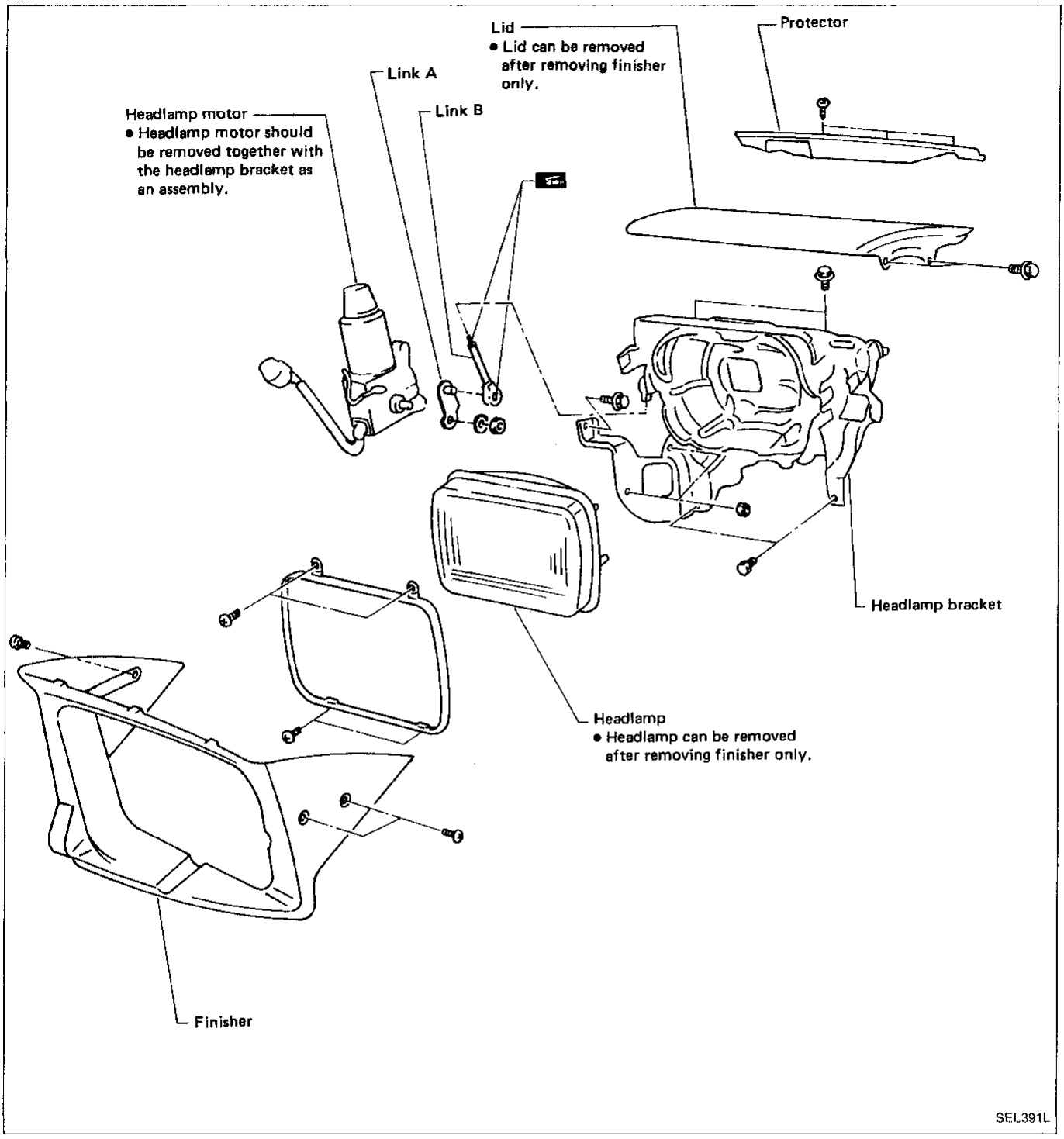
SEL661L

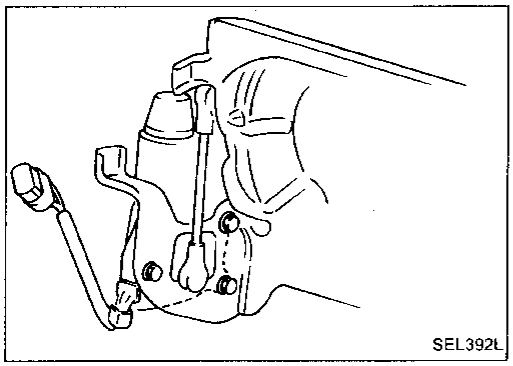
[D] When retractor switch is turned ON
(While operating the headlamp motor to open position)



SEL662L

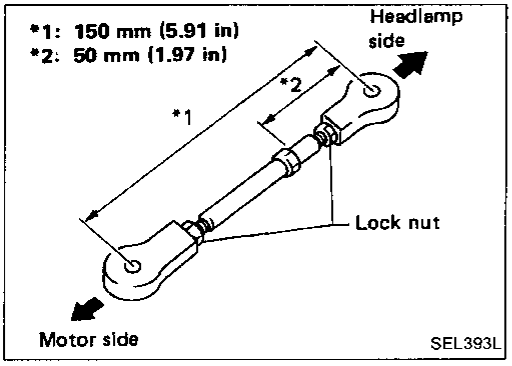
Constructions



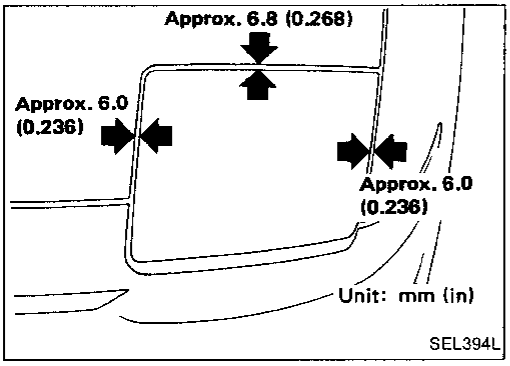

SEL392L

Assembly

1. Install headlamp motor, ball joint and link A (as one unit) on headlamp bracket.
2. While turning link B, install link A's ball joint on headlamp housing's ball joint.
3. Set distance between centers of upper and lower ball joints as shown in figure at left, and tighten lock nuts.
4. Assemble headlamp, finisher and lid.



SEL393L

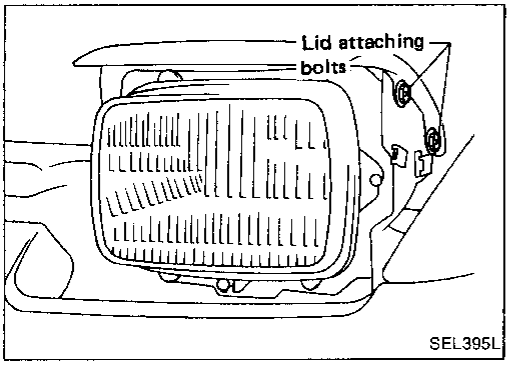


SEL394L

Installation and Adjustment

Before doing this, be sure to disconnect battery ground cable.

1. Install headlamp bracket to body temporarily.
1) Determine headlamp bracket location on body so that alignment between lid, hood, and fender looks straight.
2) After adjusting alignment, tighten headlamp bracket to body.

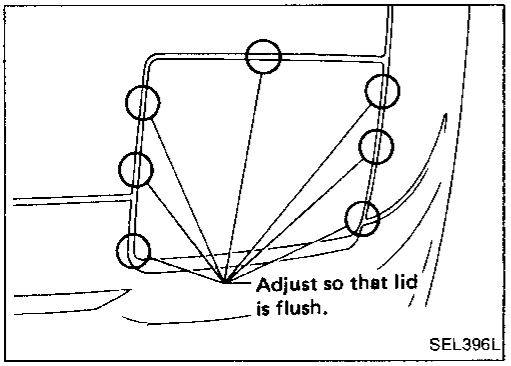


SEL395L

2. Adjust lid alignment.

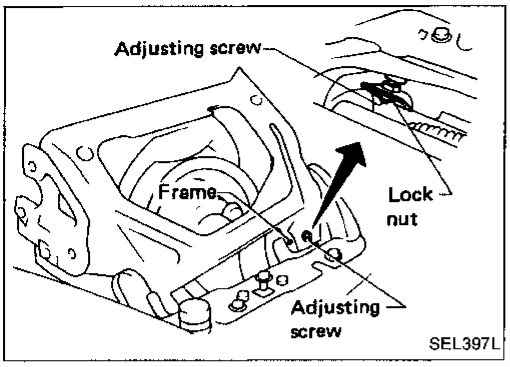
- Adjust lid, hood and fender for alignment while opening and closing headlamp with motor manual knob.

  Use motor manual knob to open and close headlamp, and adjust alignment while checking that lid is not interfering with hood.

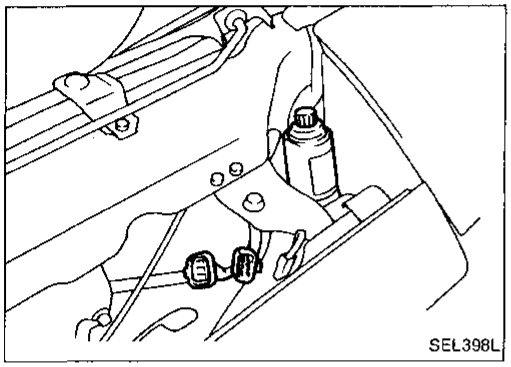


SEL396L

Installation and Adjustment (Cont'd)

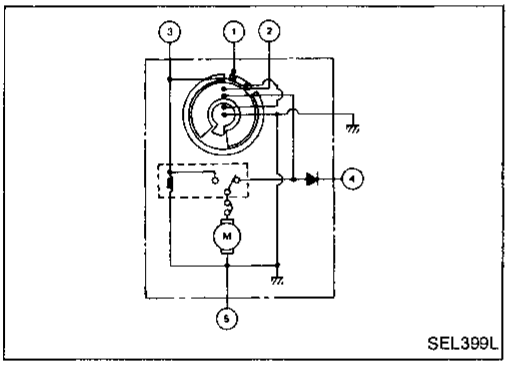


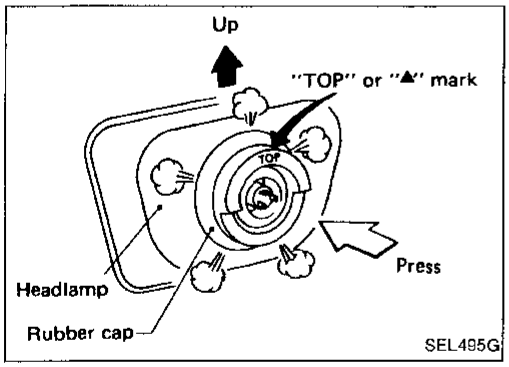
3. Adjust stopper.
1) Loosen lock nut on stopper.
2) Turn motor manual knob to open headlamp assembly completely.
3) Adjust stopper screw.



Headlamp Motor Check

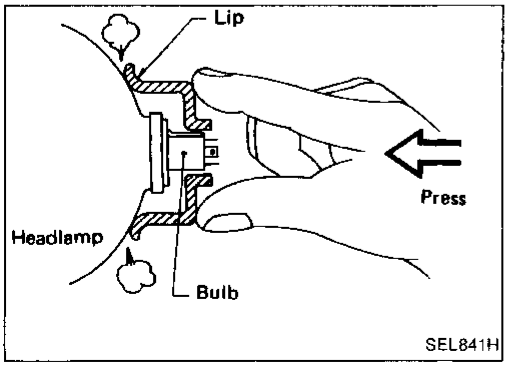
1. Disconnect battery ground cable.
2. Disconnect the headlamp motor connector.
3. Use an ohmmeter to check for continuity in headlamp motor circuit while rotating motor with manual knob.



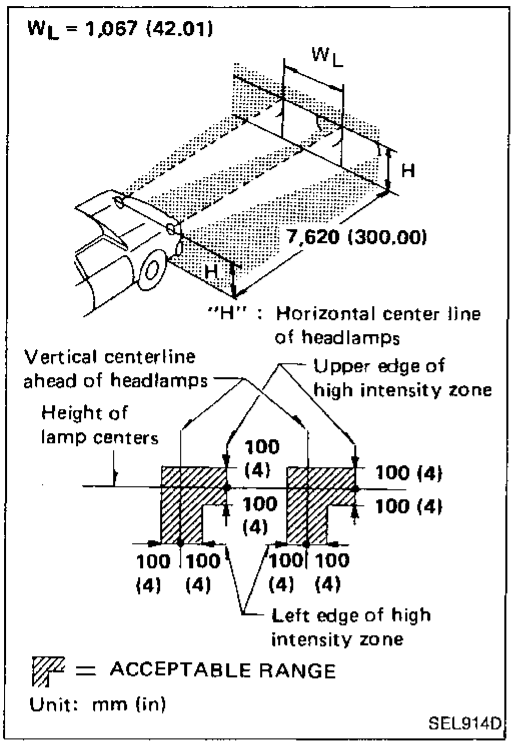


INSTALLING HEADLAMP RUBBER CAP

When installing the rubber cap, set the "TOP" or "▲" mark so that it is facing up.



Press the rubber cap firmly so that the lip makes contact with the headlamp body.



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.

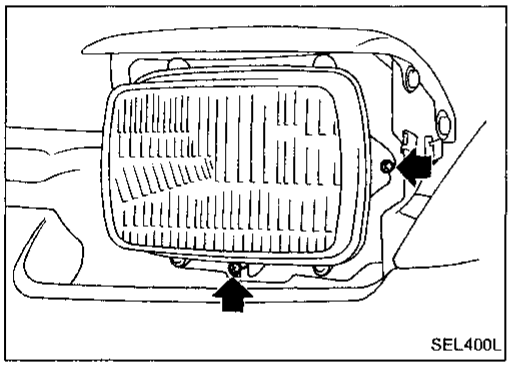
CAUTION:

a. Keep all tires inflated to correct pressures.

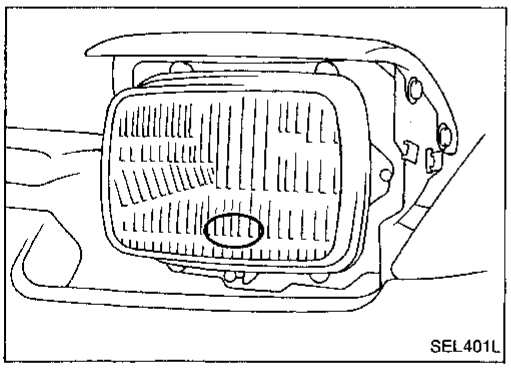
b. Place vehicle and tester on one and same flat surface.

c. See that there is no-load in vehicle (coolant, engine oil filled up to correct level and full fuel tank) other than the driver (or equivalent weight placed in driver's position).

- **Adjust headlamps so that upper edge and left edge of high intensity zone are within the acceptable range as shown.**
- **Dotted lines in illustration show center of headlamp.**



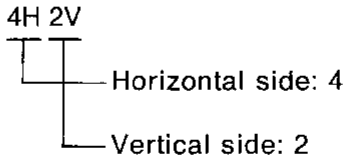
ADJUSTING SCREWS



AIMER ADJUSTMENT MARK

When using a mechanical aimer, adjust adapter legs to the data marked on the headlamps.

Example:



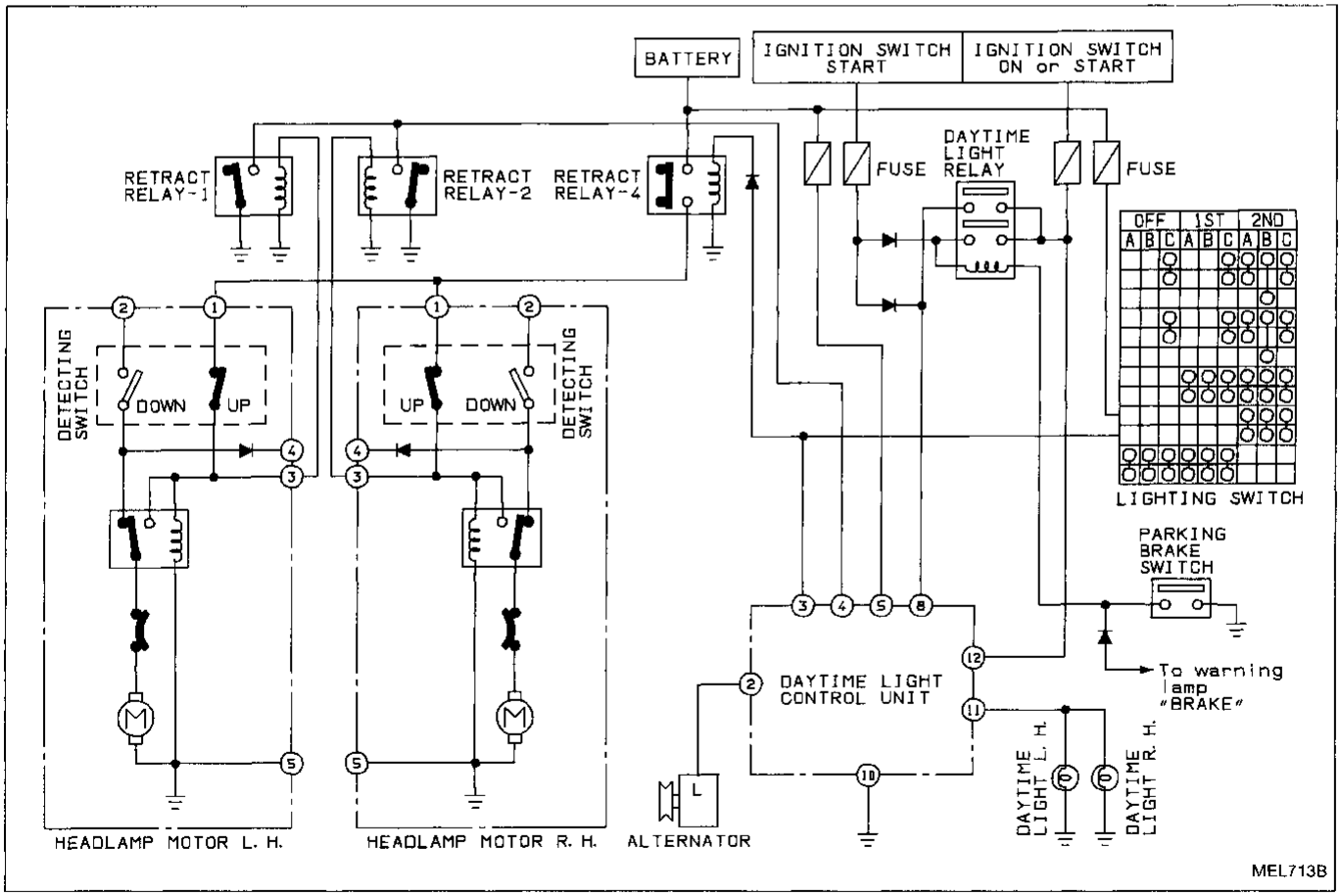
Daytime Light/Description & Schematic

OPERATION

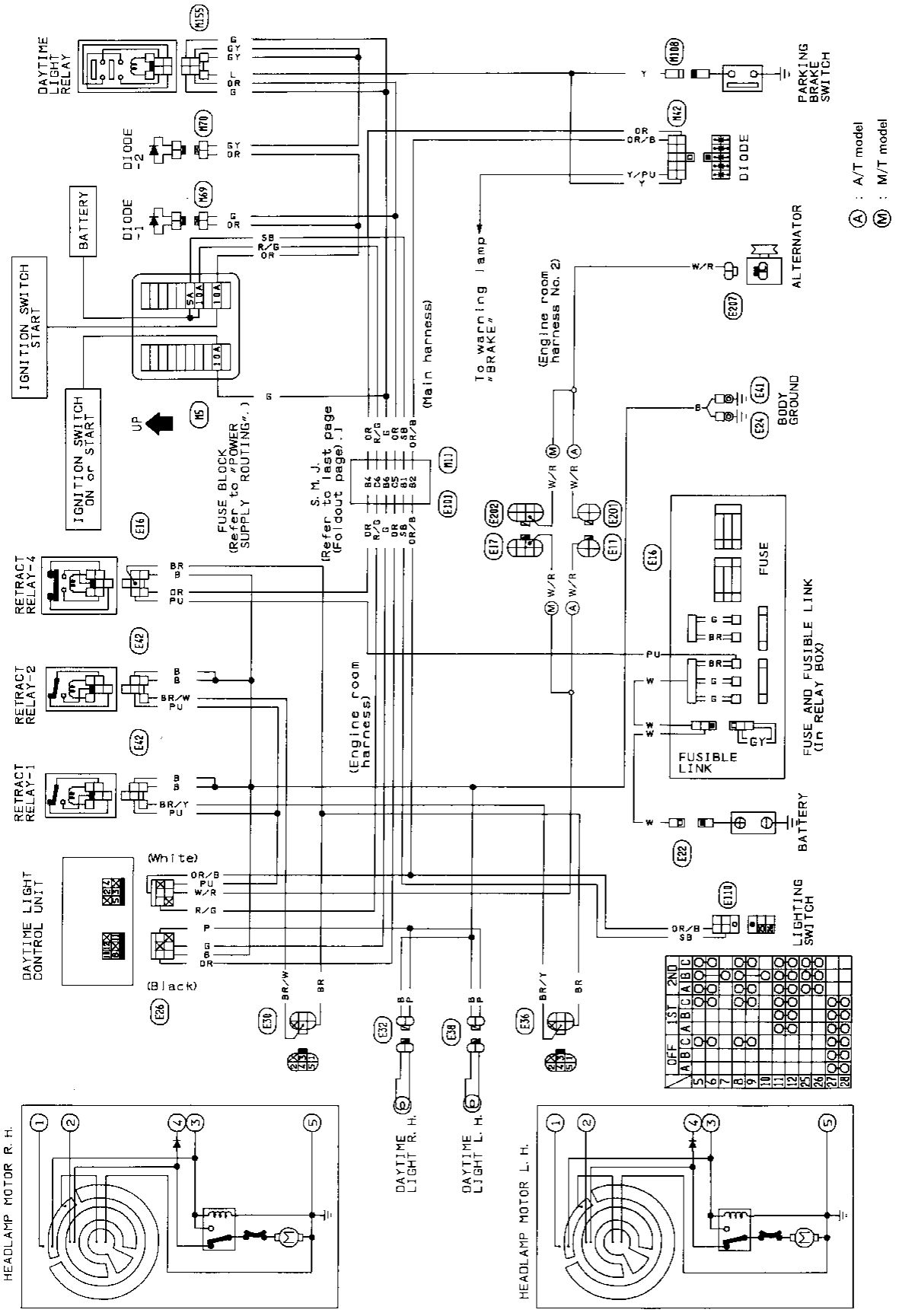
After starting the engine with the lighting switch in the "OFF" or "1ST" position, the daytime light automatically turns on. With the lighting switch in the "2ND" position, the daytime light turns on while the headlamp motor is operating the headlamps to the open position and turns off after the headlamps reach the fully open position. Lighting switch operations other than the above are the same as in conventional 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	○	X	X	○	○	X	○	X	X	○	X	X	○	○	X	○
	Low beam	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	○	X
Clearance and tail lamp		X	X	X	○	○	○	○	○	○	X	X	X	○	○	○	○	○	○
License and instrument illumination lamp		X	X	X	○	○	○	○	○	○	X	X	X	○	○	○	○	○	○
Daytime light		X	X	X	X	X	X	X	X	X	○*	○*	○*	○	○	○	X	X	X

○ : Lamp "ON"
X : Lamp "OFF"
* : When starting the engine with the parking brake released, the Daytime lamp will come ON.
When starting the engine with the parking brake pulled, the Daytime lamp won't come ON.



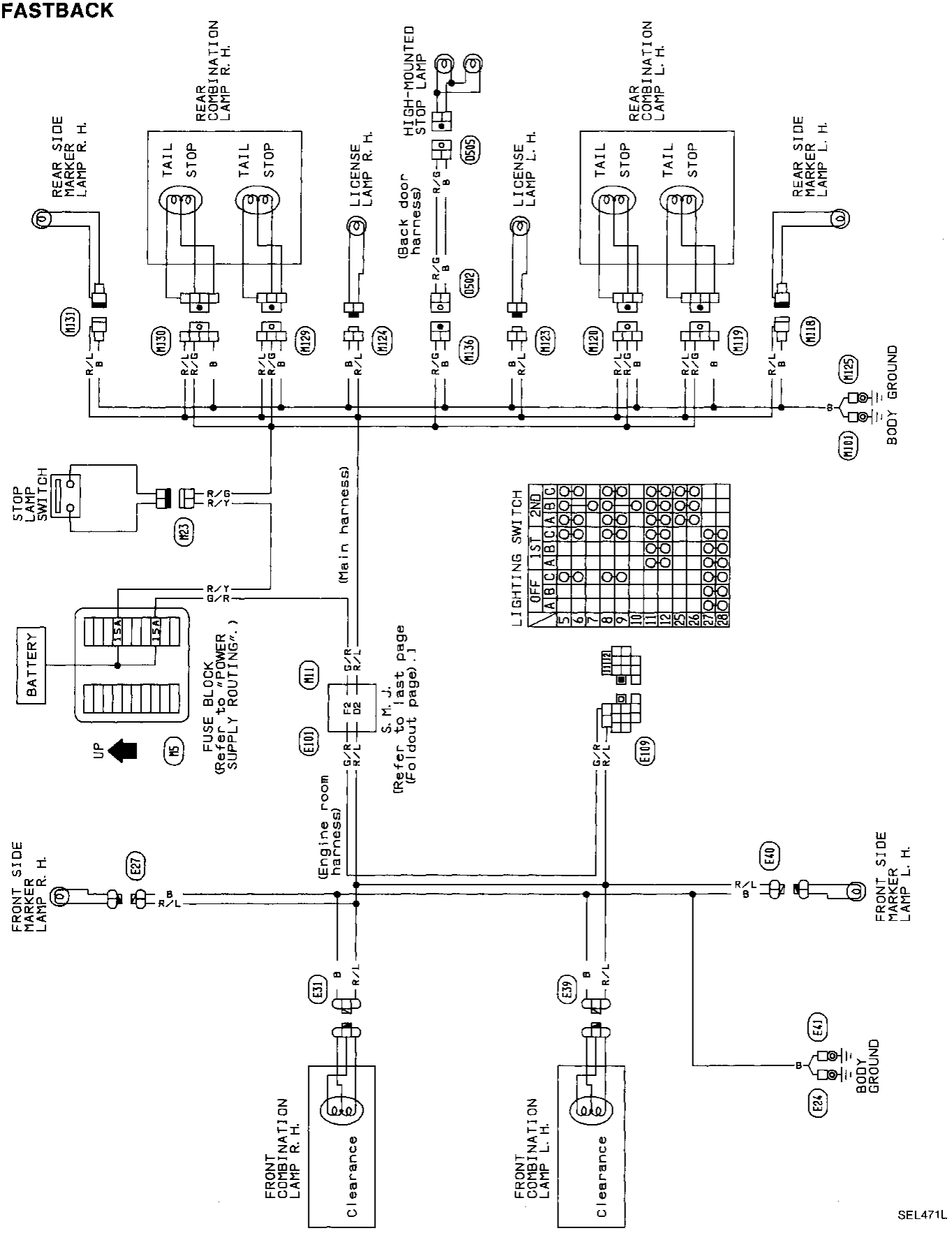
Daytime Light/Wiring Diagram



MEL714B

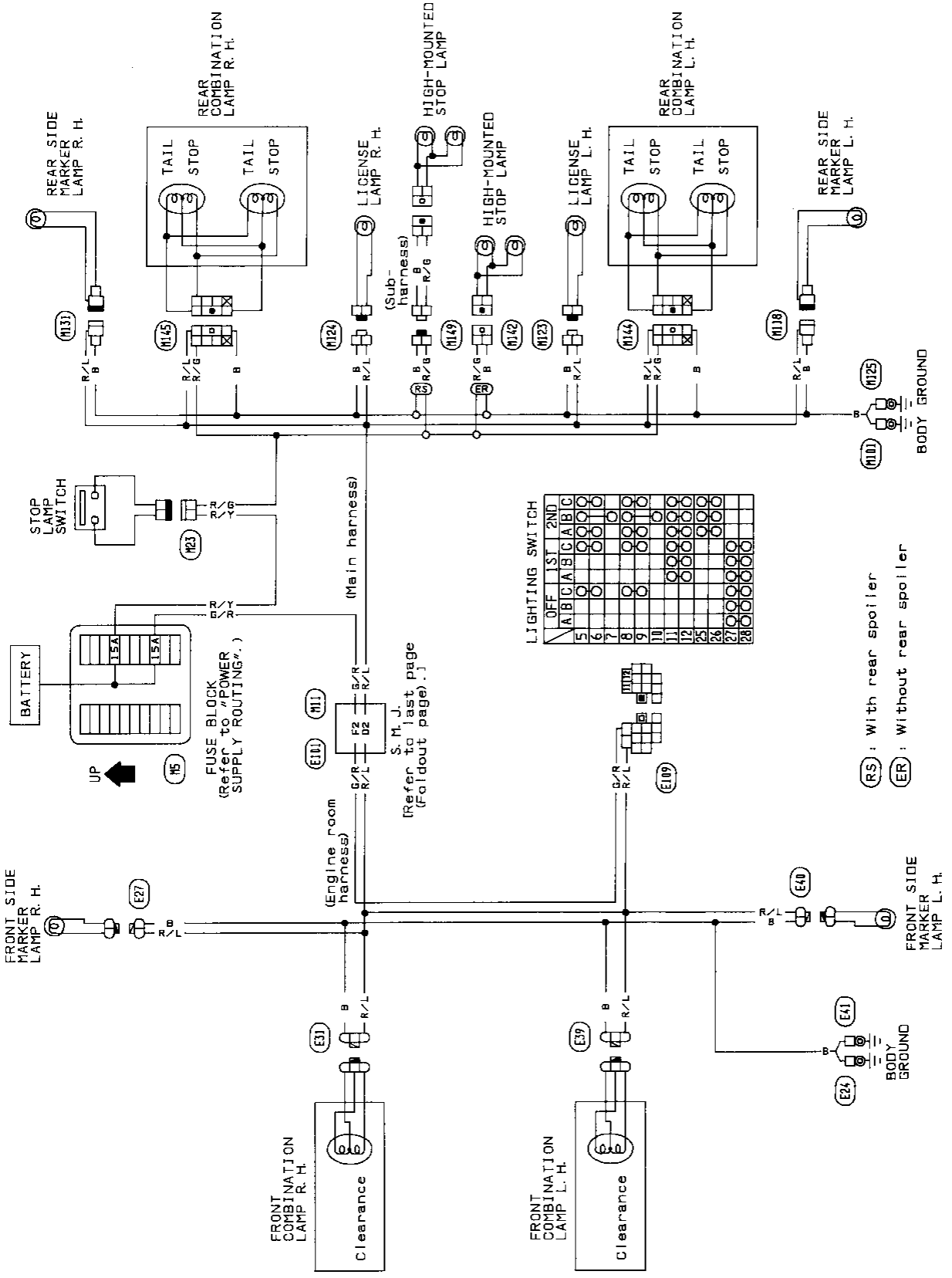
Clearance, License, Tail and Stop Lamps/Wiring Diagram

FASTBACK



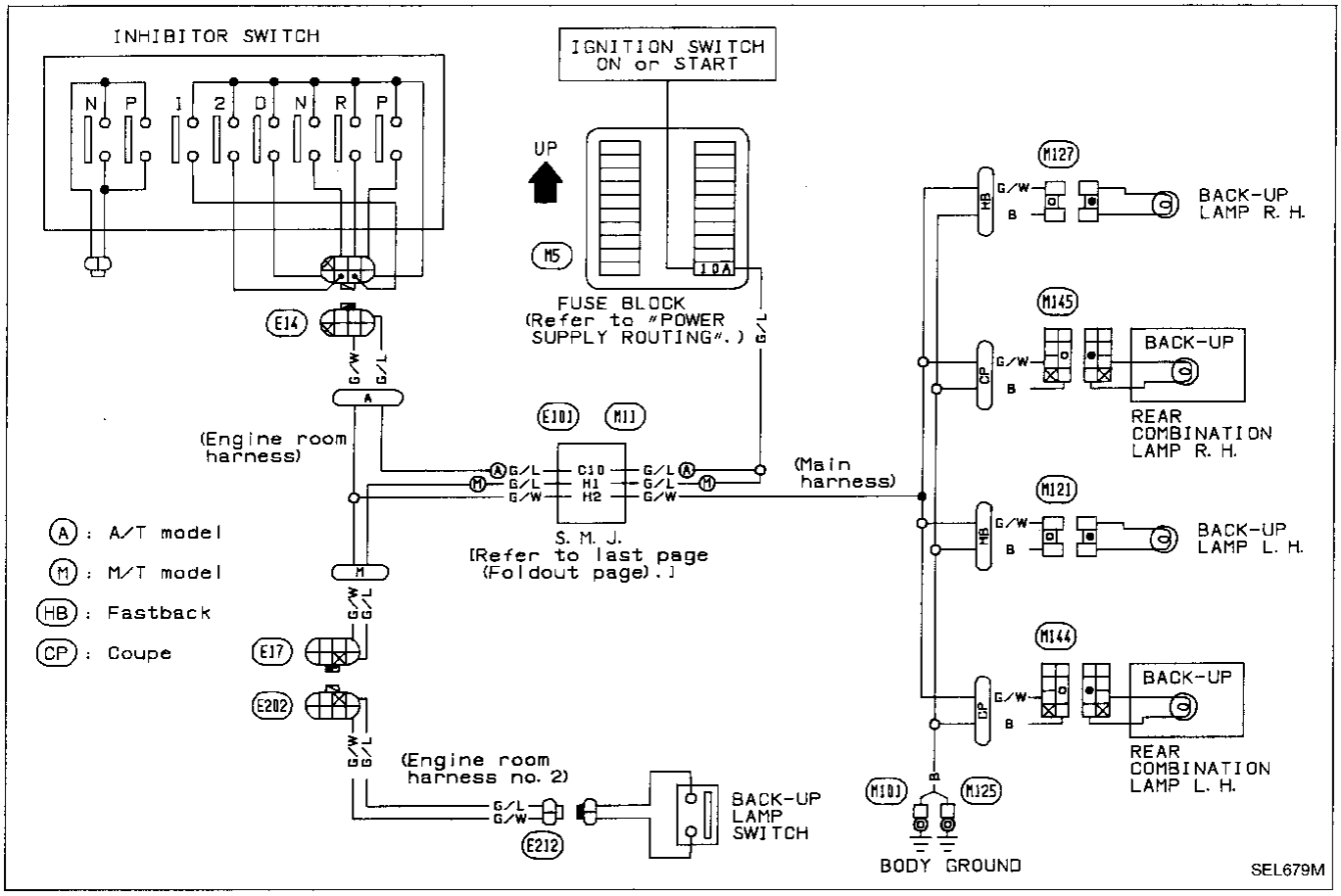
Clearance, License, Tail and Stop Lamps/Wiring Diagram (Cont'd)

COUPE

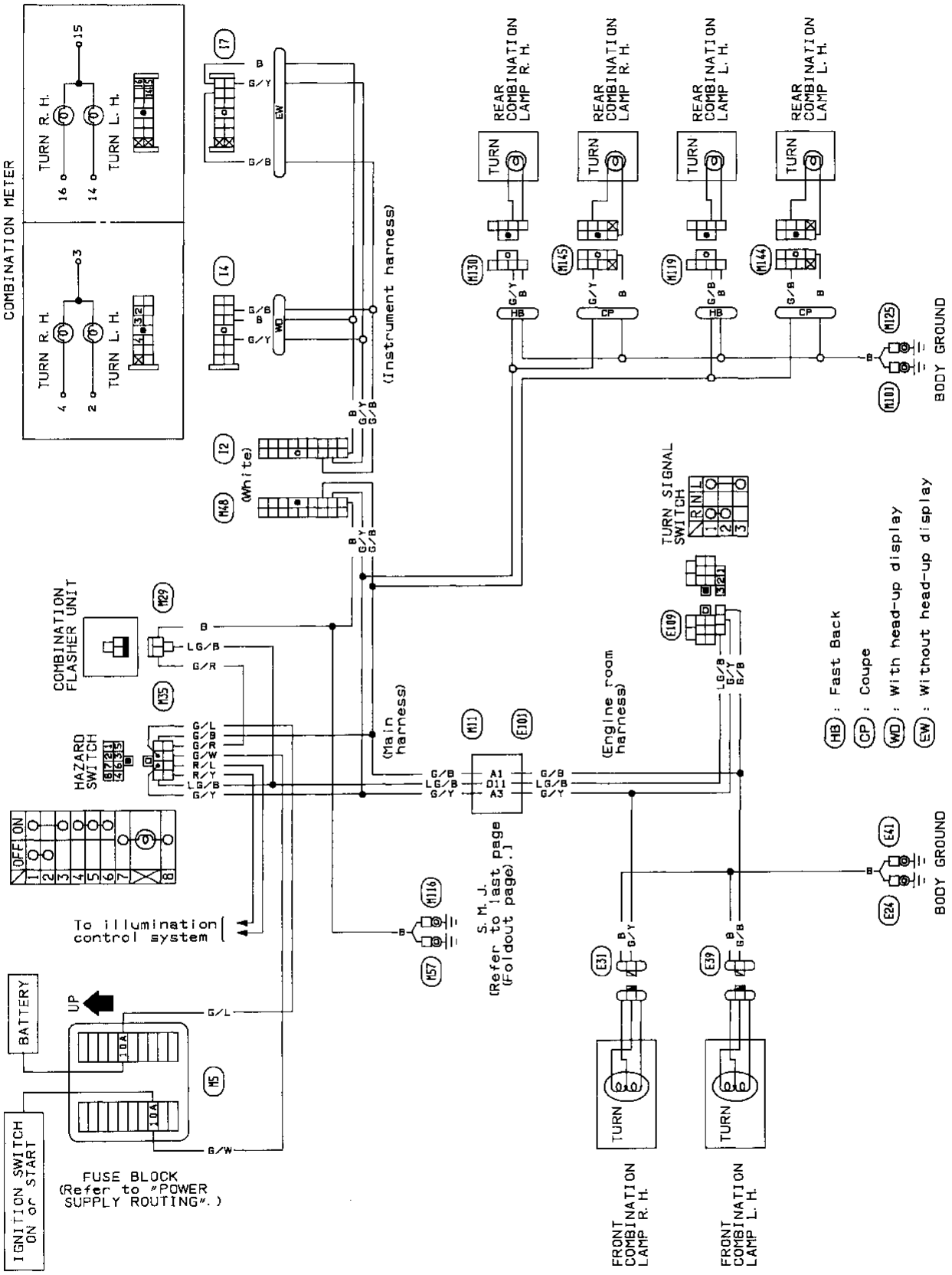


SEL352N

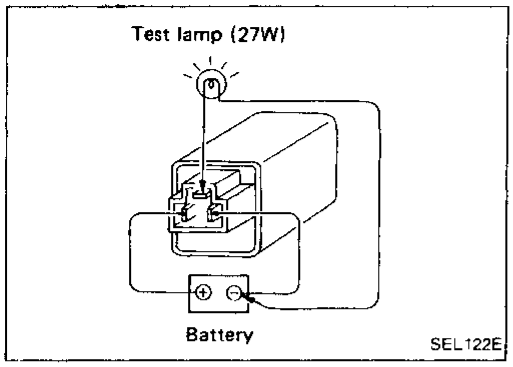
Back-up Lamp/Wiring Diagram



Turn Signal and Hazard Warning Lamps/Wiring Diagram



SEL354N



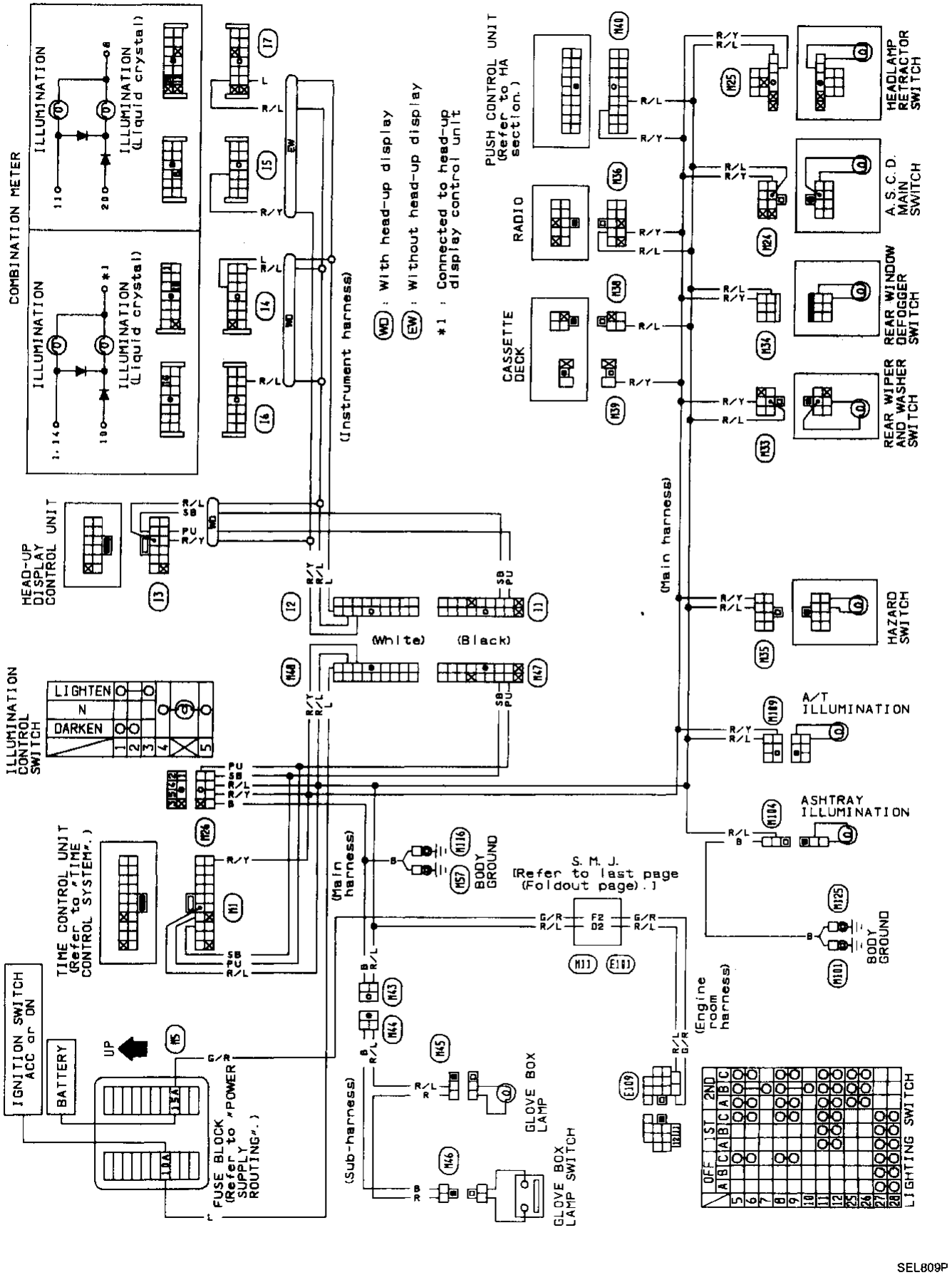
Combination Flasher Unit Check

- 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

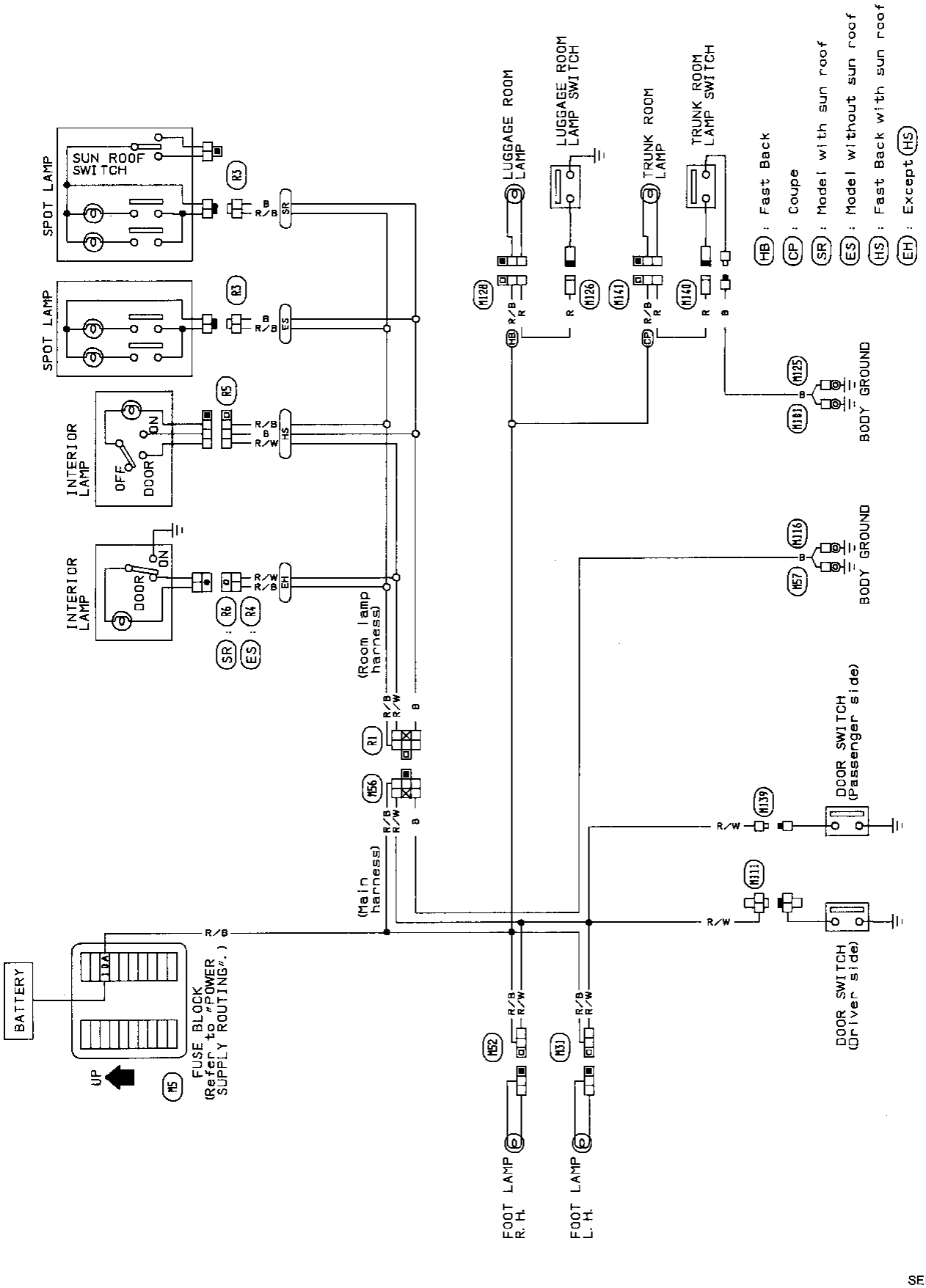
Item	Wattage (W)
Headlamp (Sealed)	65/35
Daytime light	27
Front combination lamp	
Front turn signal/Clearance	27/8
Front side marker lamp	3.8
Rear side marker lamp	3.8
Rear combination lamp	
Turn signal lamp	27
Stop/Tail lamp	27/8
Back-up lamp	27
License plate lamp	7.5
Interior lamp	10
Spot lamp	8
Trunk room lamp (Coupe)	3.4
Foot well lamp	3
Luggage compartment lamp (Fastback)	5
High-mounted stop lamp	18

Illumination/Wiring Diagram



SEL809P

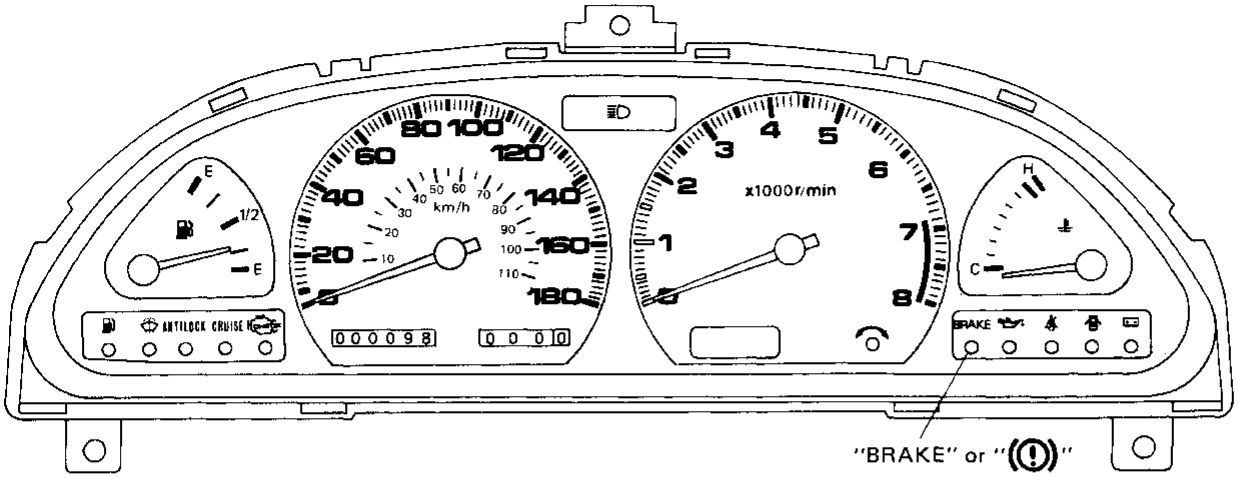
Interior Lamp/Wiring Diagram

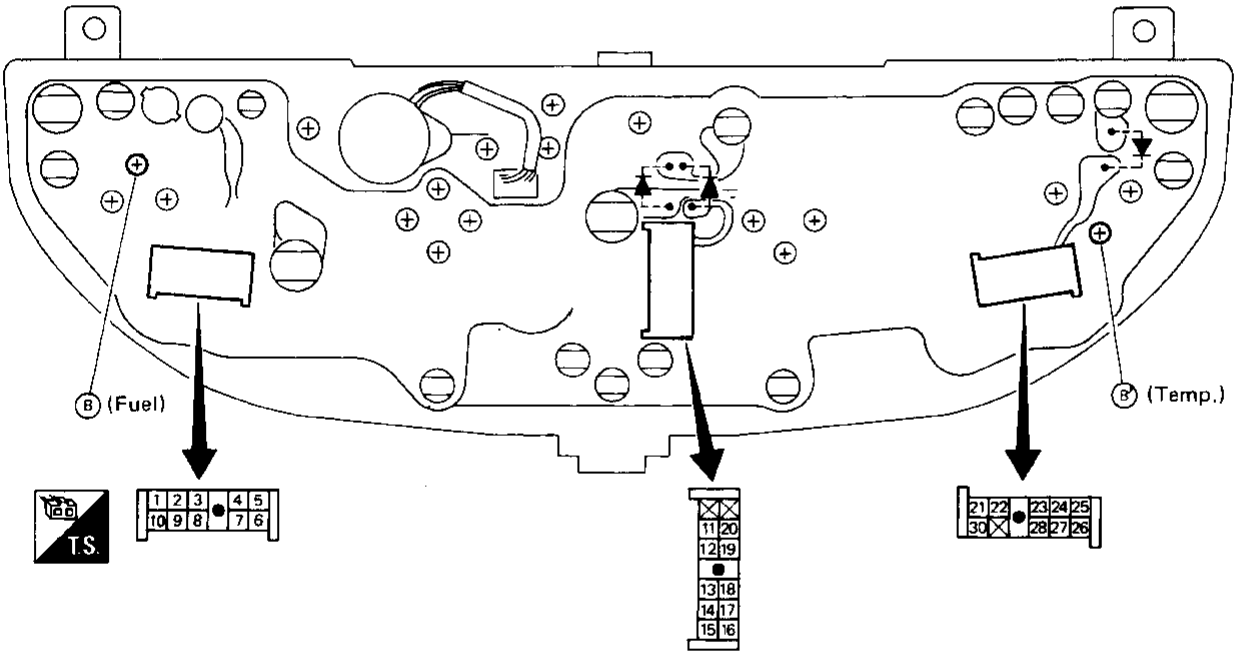


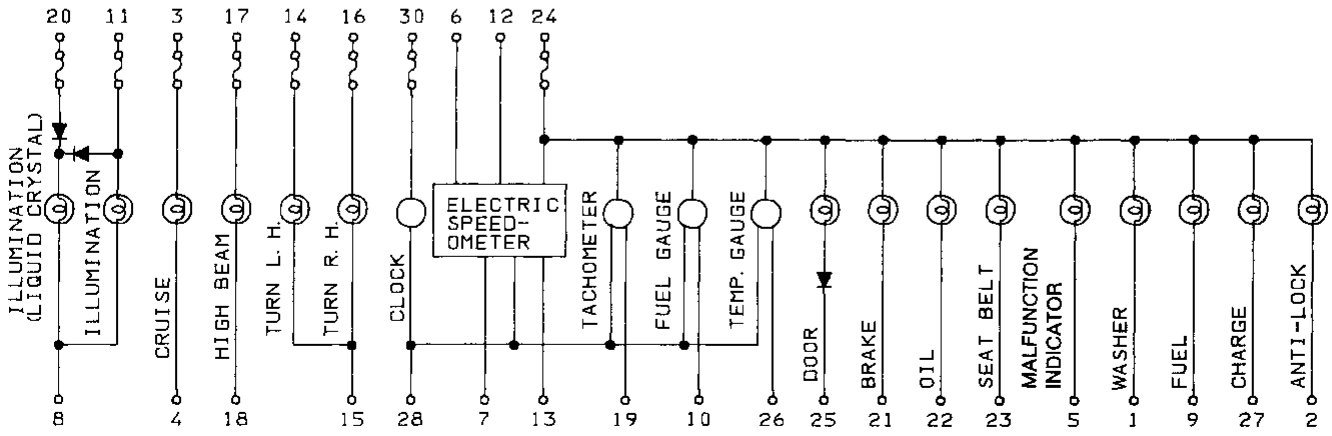
SEL356N

Combination Meter

NEEDLE TYPE



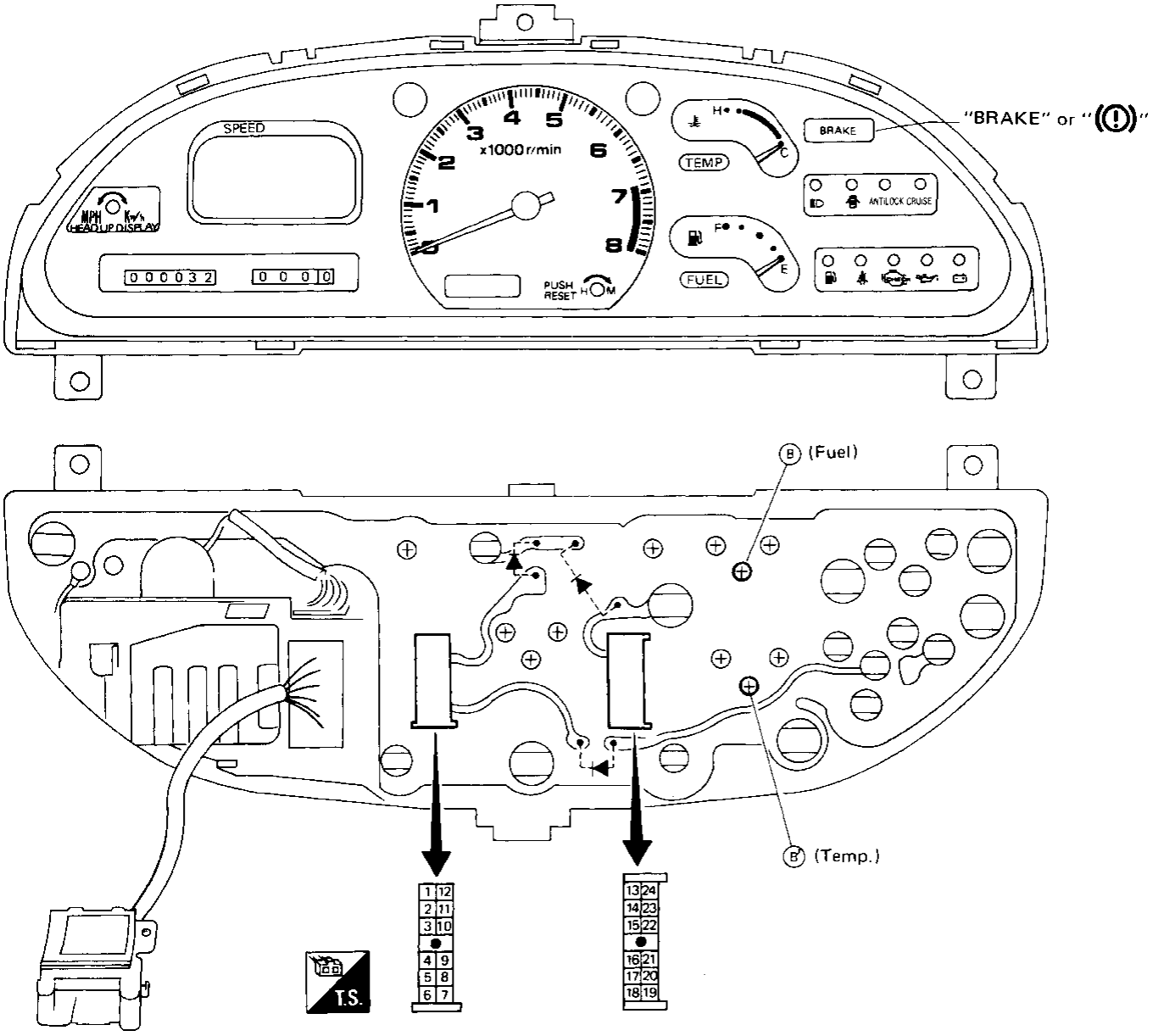


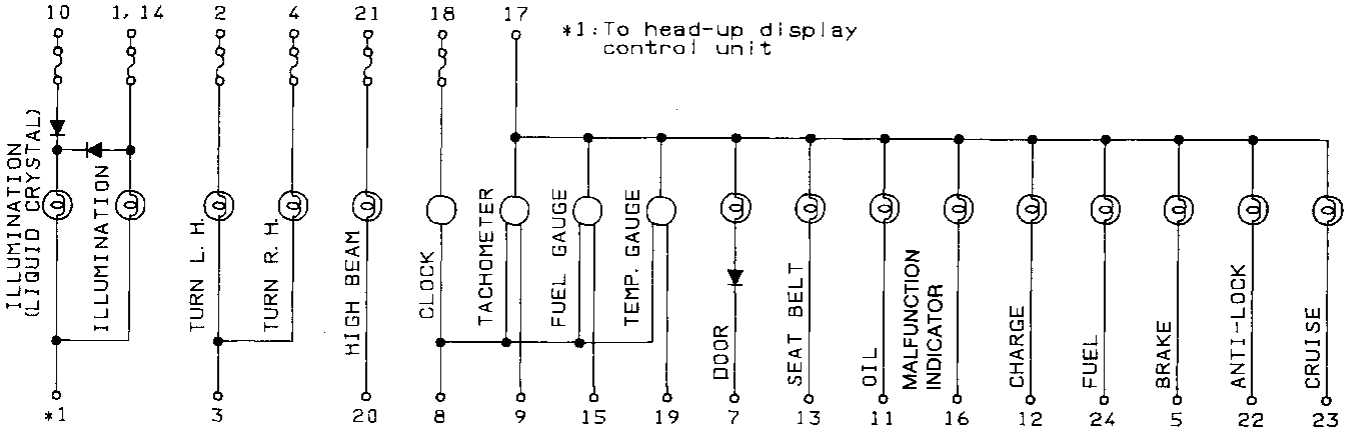


MEL725B

Combination Meter (Cont'd)

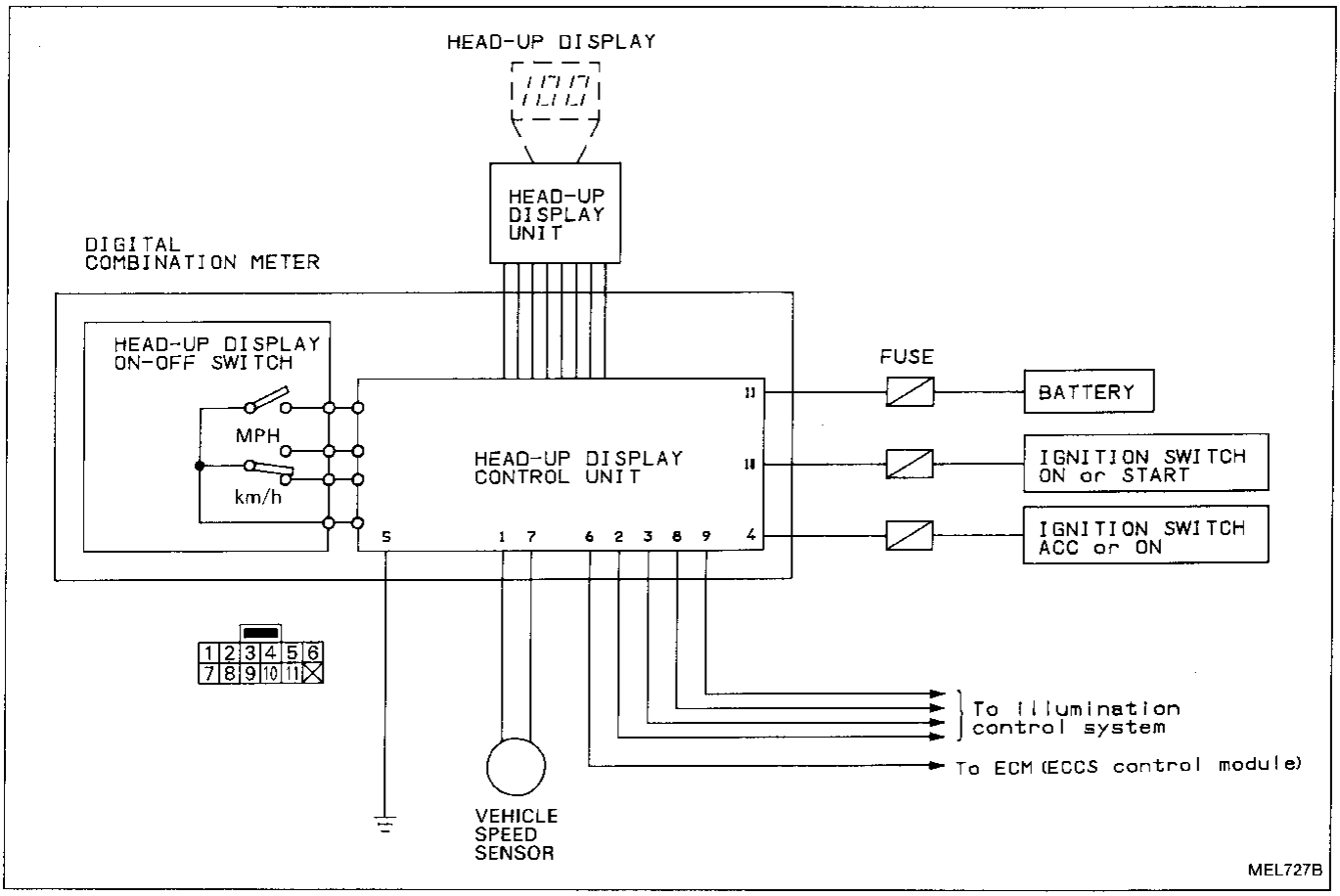
DIGITAL TYPE



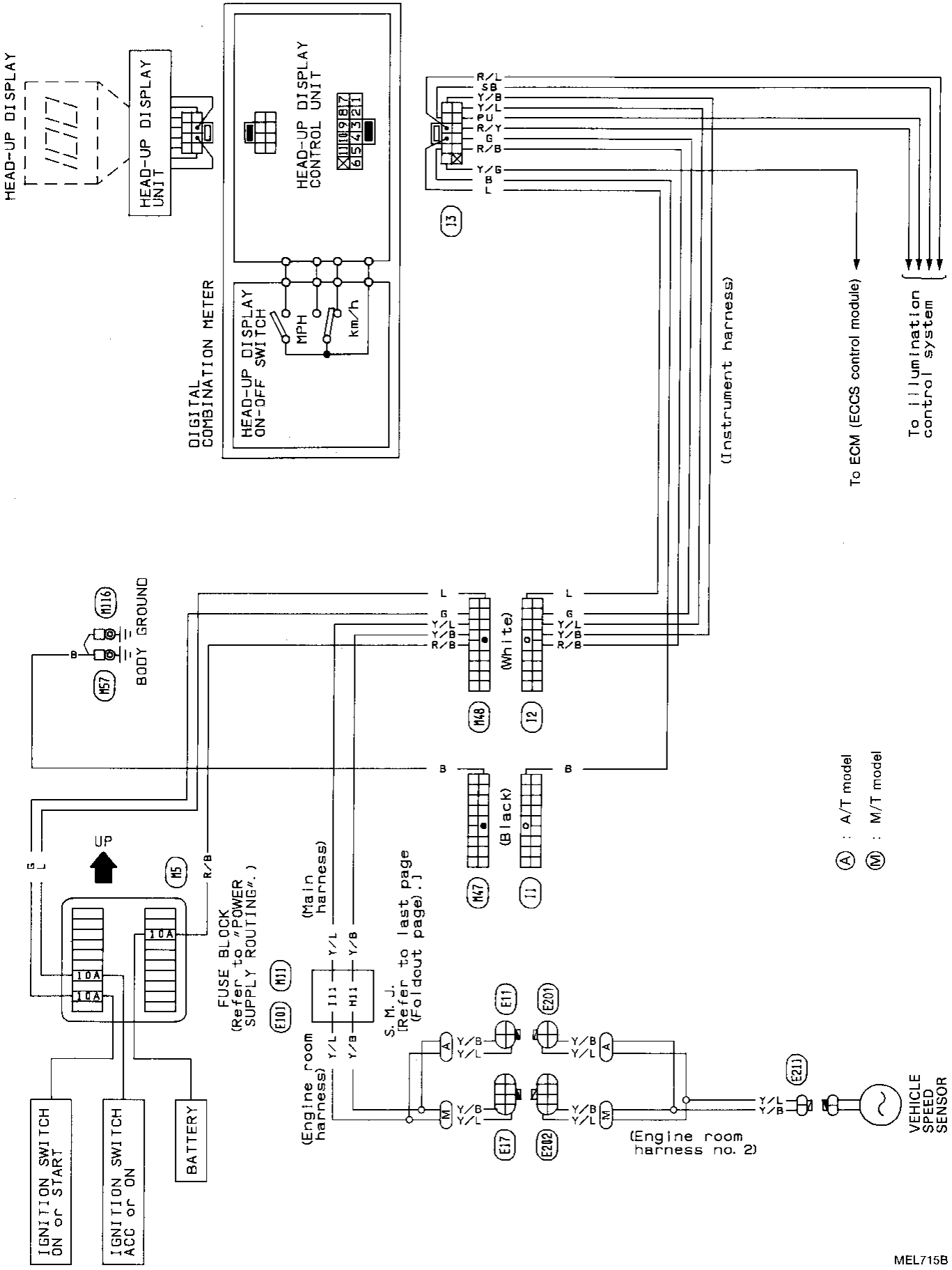


MEL726B

Combination Meter (Cont'd)

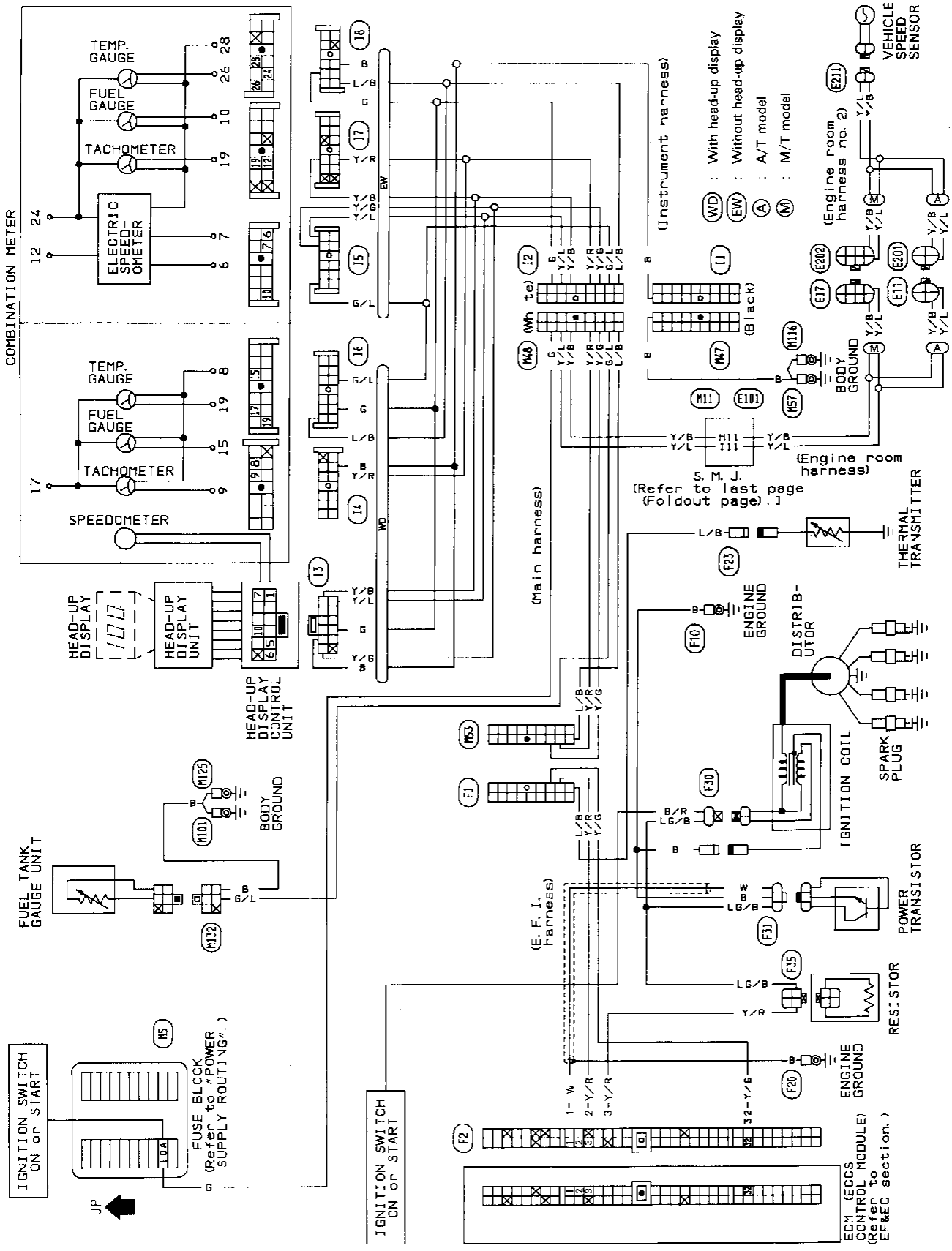


Combination Meter/Wiring Diagram

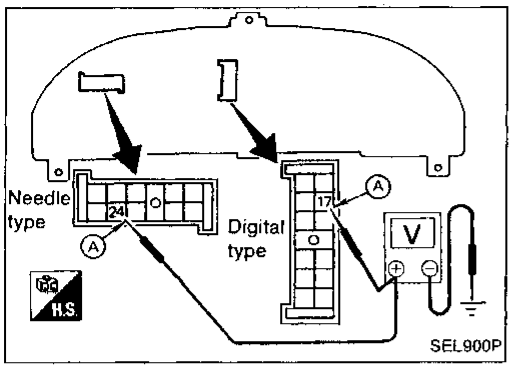


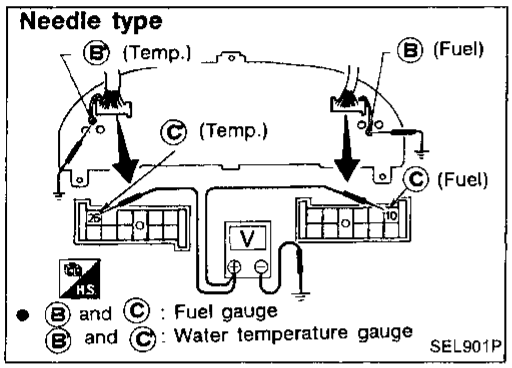
MEL715B

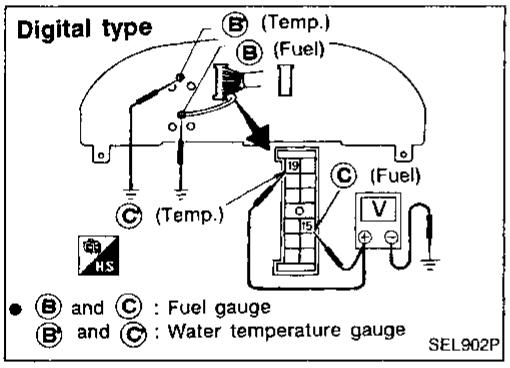
Speedometer, Tachometer, Temp. and Fuel Gauges/Wiring Diagram



MEL716B







Inspection/Fuel Gauge and Water Temperature Gauge

INSPECTION START

CHECK POWER SOURCE.
1) Turn ignition switch "ON".
2) Check voltage between terminal Ⓐ and ground.
Battery voltage should exist.

N.G. → Check the following items.
1) Harness continuity between battery terminal and combination meter
2) Ignition relay
3) Fusible link and fuse
4) Ignition switch

O.K. ↓

CHECK GAUGE OPERATION.
1) Turn ignition switch "ON".
2) Connect terminals Ⓑ (Fuel), Ⓑ (Temp.) and ground with wire for **less than 10 seconds.**
3) Check operation of gauge.
Gauge should move smoothly to full scale.

N.G. → Repair or replace gauge.

O.K. ↓

Check harness continuity between component and combination meters Ⓒ (Fuel), Ⓒ (Temp.).

N.G. → Repair or replace.

O.K. ↓

CHECK COMPONENT.
Check gauge units and harness.
Refer to "Fuel Tank Gauge Unit Check" or "Thermal Transmitter Check".

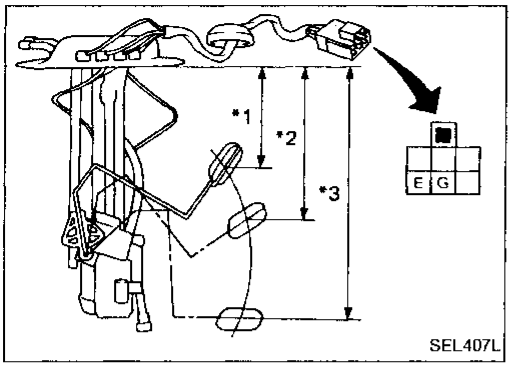
N.G. → Repair or replace.
Refer to FE section. (Fuel gauge)

O.K. ↓

Reinstall any part removed.

↓

INSPECTION END

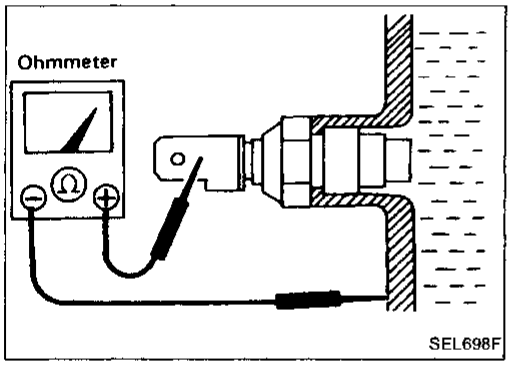


Fuel Tank Gauge Unit Check

- For removal, refer to FE section.

Check the resistance between terminals Ⓖ and Ⓔ.

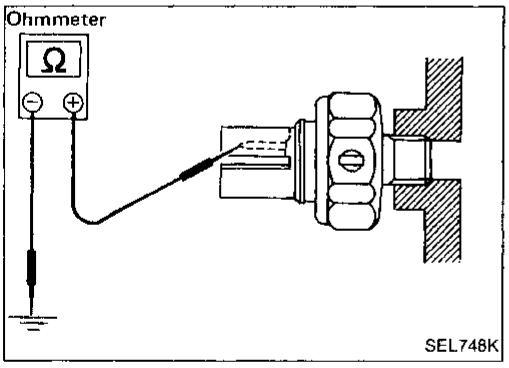
Ohmmeter (+)	Ohmmeter (–)	Float position mm (in)			Resistance Ω	Fuel value ℓ (US gal, Imp gal)
G	E	*1	Full	Approx. 92 (3.62)	4.3 - 5.8	57.6 (15-1/4, 12-5/8)
		*2	1/2	Approx. 154 (6.06)	27.7 - 34.3	32.9 (8-3/4, 7-1/4)
		*3	Empty	Approx. 226 (8.90)	78.3 - 84.8	6.6 (1-3/4, 1-1/2)



Thermal Transmitter Check

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

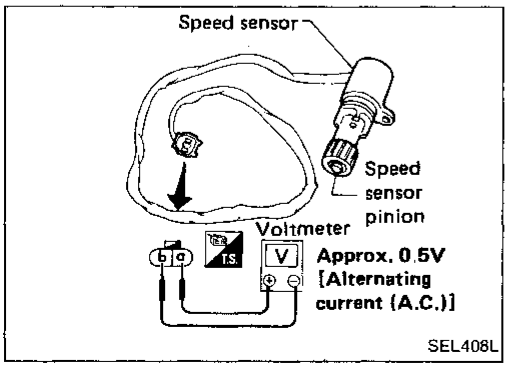
Water temperature	Resistance
60°C (140°F)	Approx. 70 - 90Ω
100°C (212°F)	Approx. 21 - 24Ω



Oil Pressure Switch Check

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

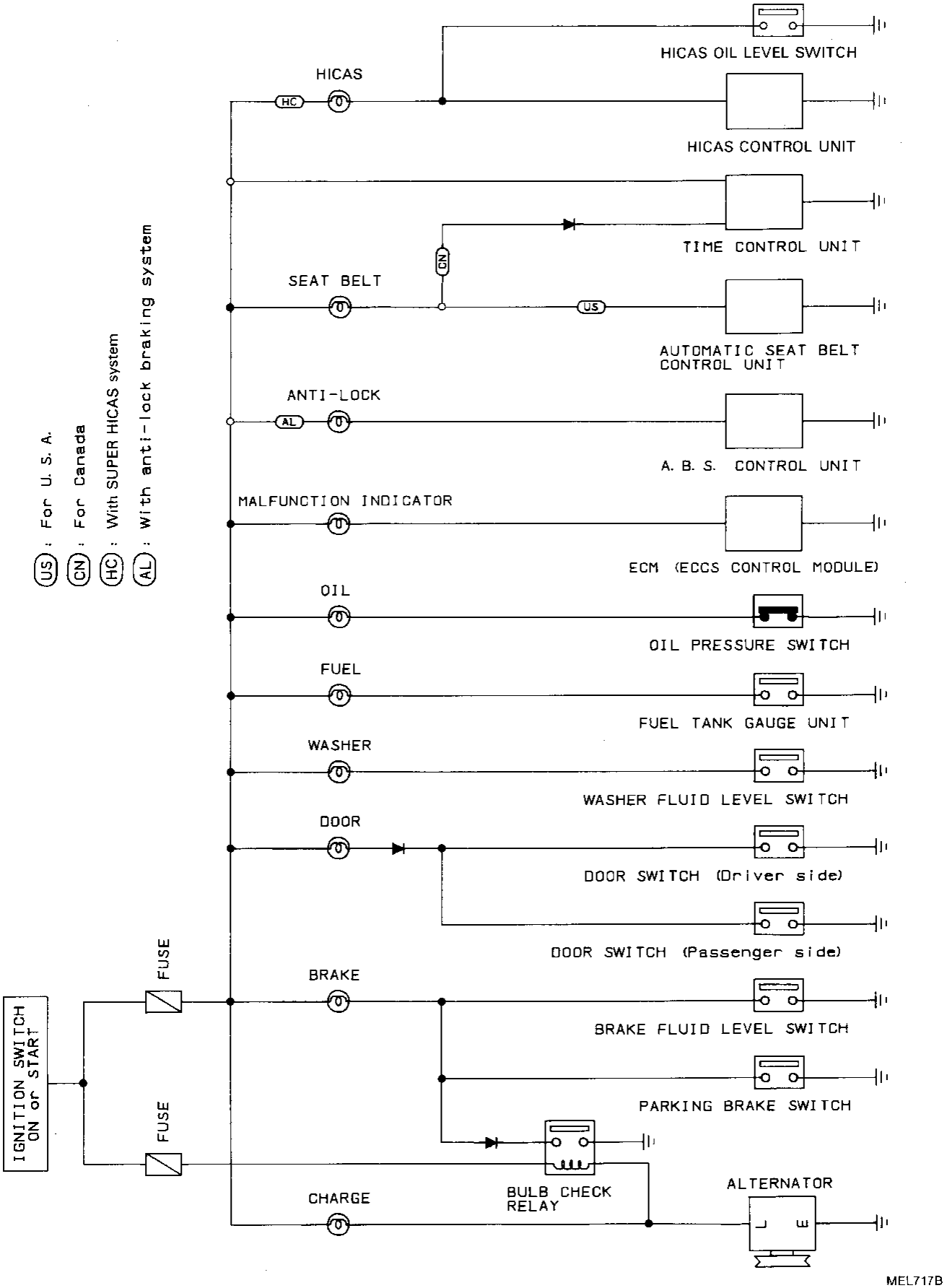
	Oil pressure kPa (kg/cm², psi)	Continuity
Engine start	More than 10 - 20 (0.1 - 0.2, 1.4 - 2.8)	NO
Engine stop	Less than 10 - 20 (0.1 - 0.2, 1.4 - 2.8)	YES



Speed Sensor Signal Check

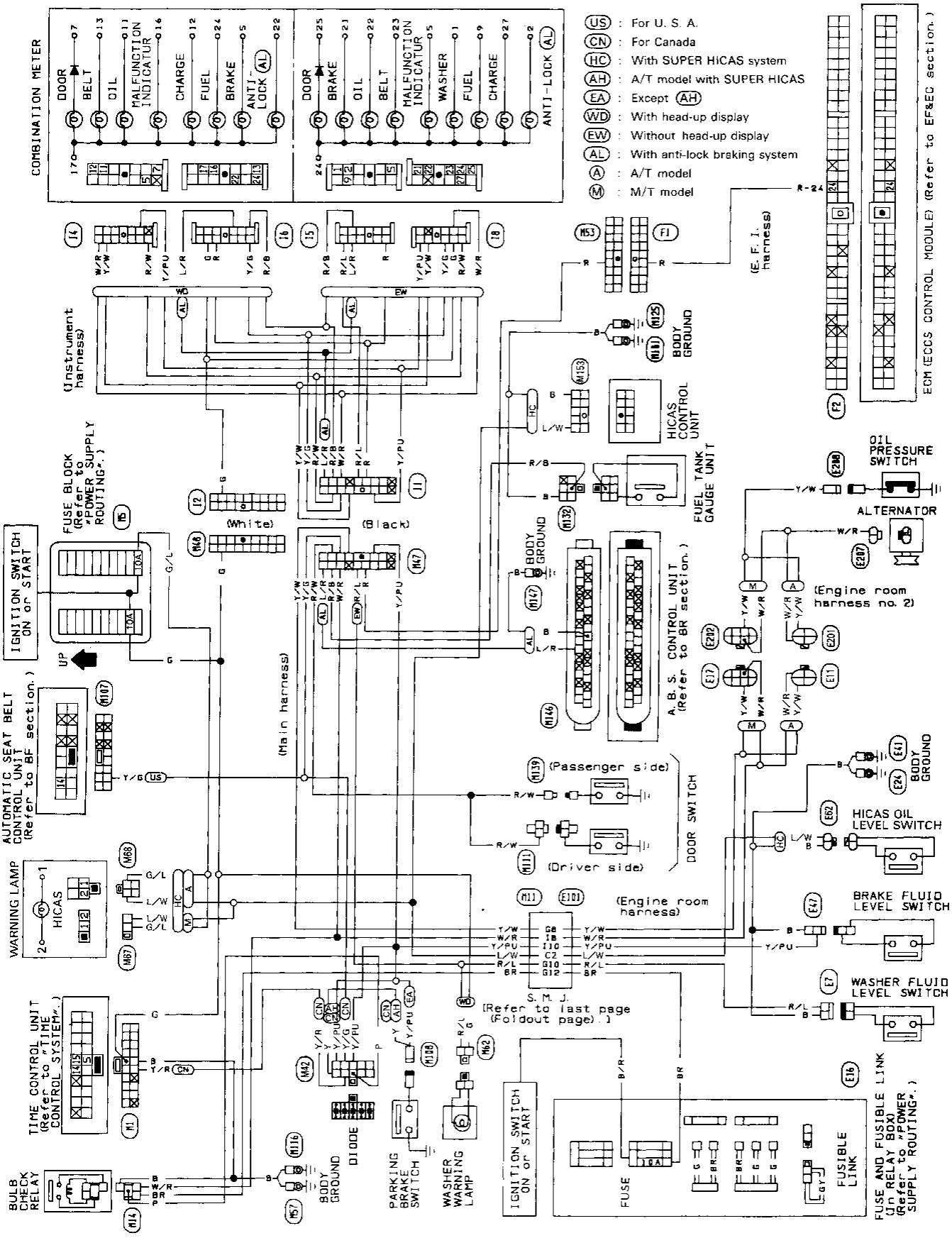
1. Remove speed sensor from transmission.
   Location: Refer to "Location of Electrical Units".
2. Turn speedometer pinion quickly and measure voltage across ⓐ and ⓑ.

Warning Lamps/Schematic



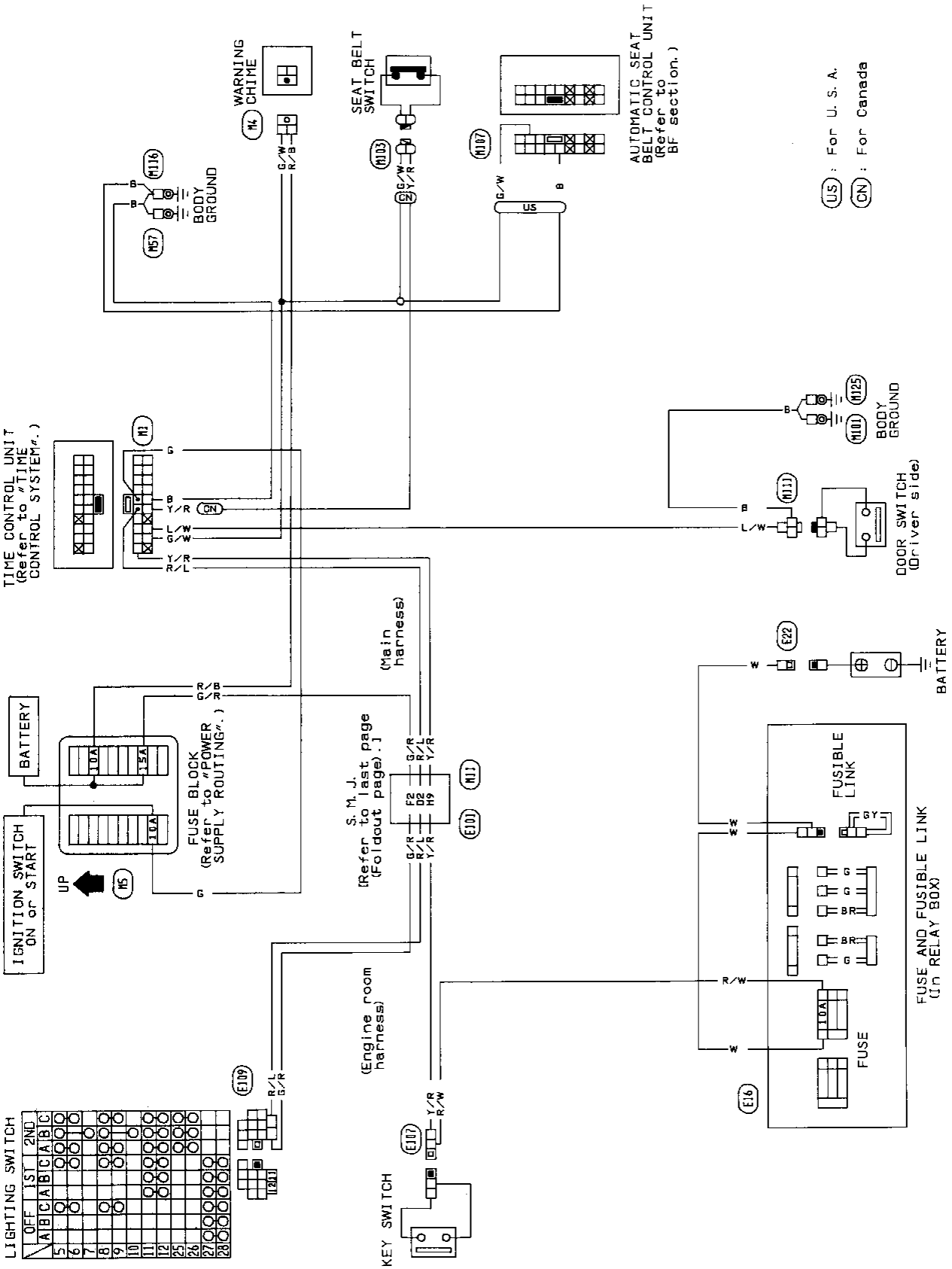
MEL717B

Warning Lamps/Wiring Diagram

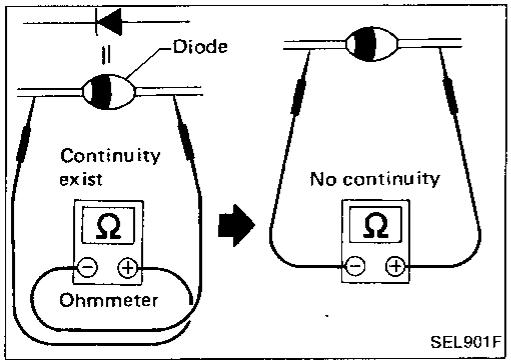


MEL718B

Warning Chime/Wiring Diagram

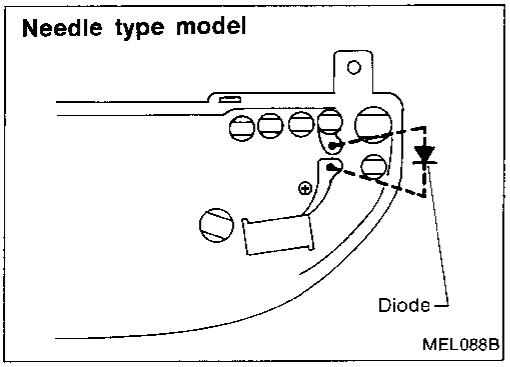


SEL361N

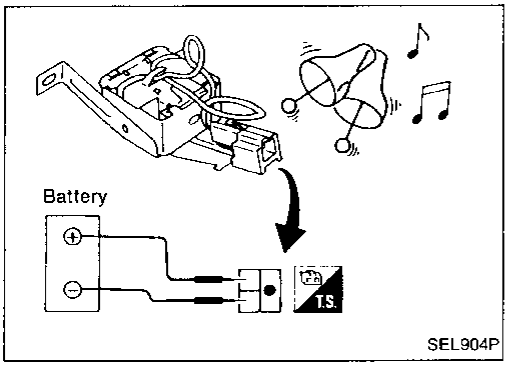


Diode Check

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

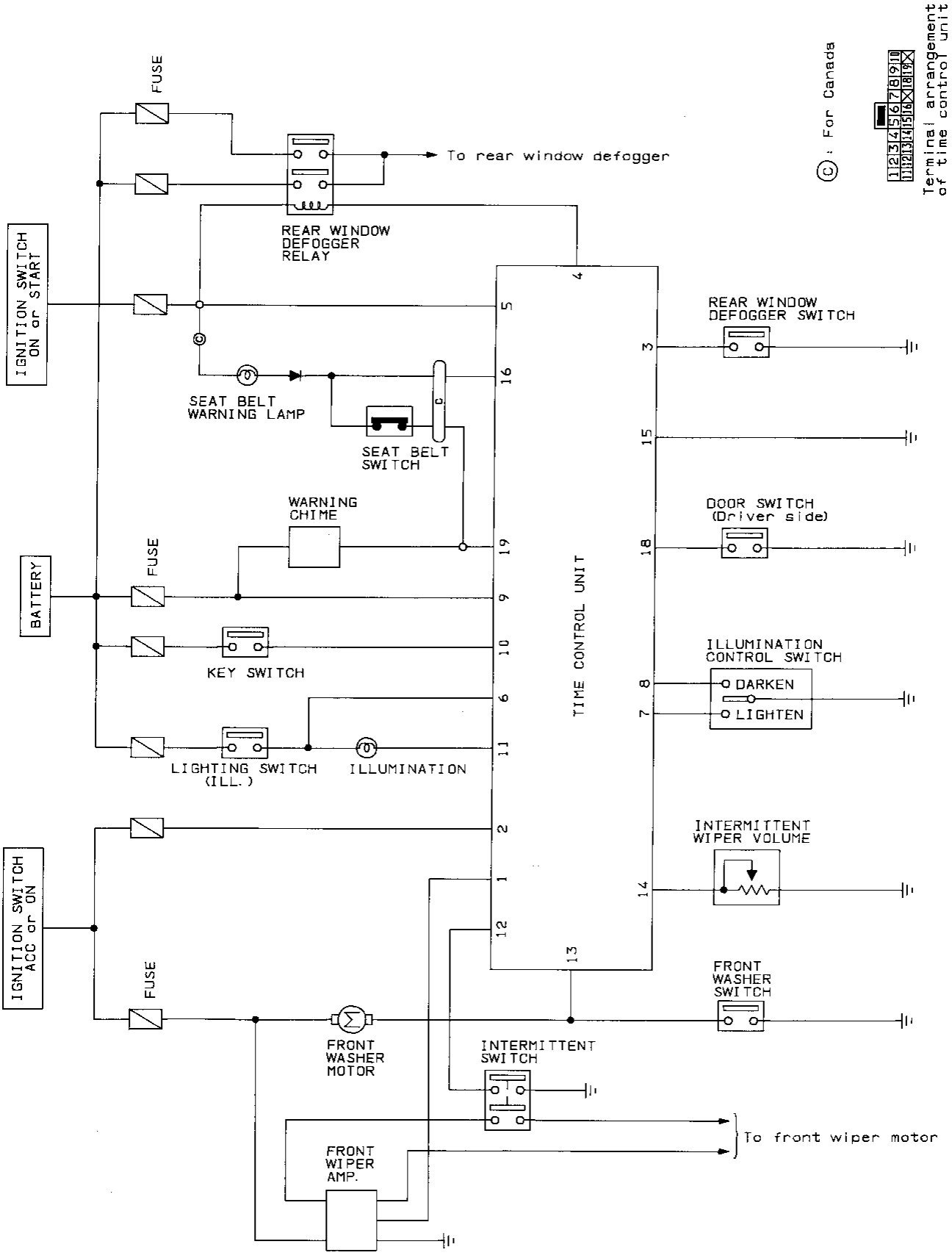


- Diodes for warning lamps are built into the combination meter printed circuit.



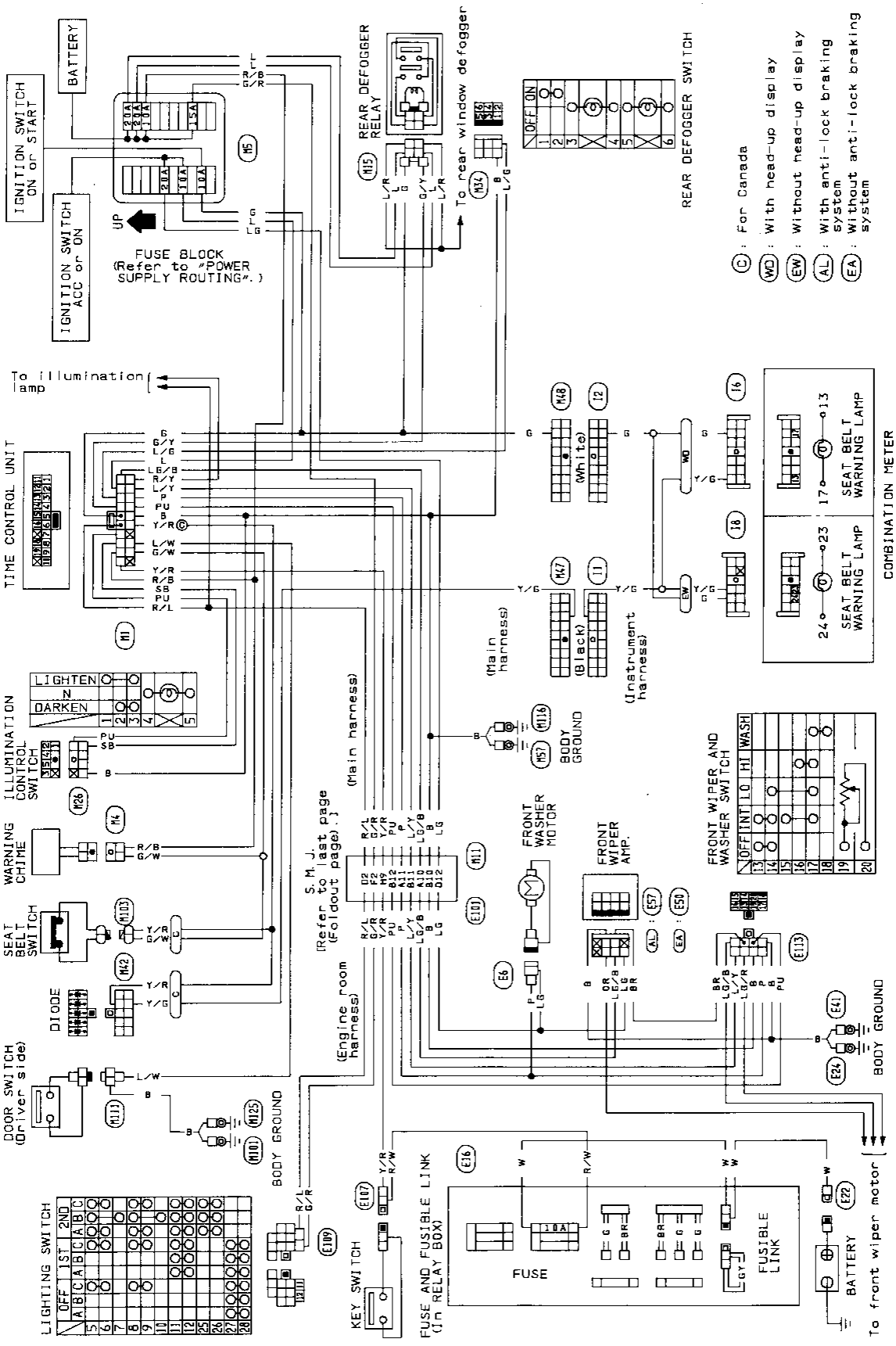
Warning Chime Check

Schematic



SEL486L

Wiring Diagram



SEL587M

Description

FUNCTION

- Time control unit has the following functions.

	Item	Details of control
1	Intermittent wiper control	Regulates intermittent time from approximately 3 to 12 seconds depending on the intermittent wiper volume setting.
2	Washer and wiper combination control	Wiper is operated in conjunction with washer switch.
3	Illumination control	Regulates brightness of illumination in 16 stages depending on the illumination control switch setting.
4	Light warning chime timer	When driver's door is opened with light switch ON and ignition switch OFF, warning chime sounds.
5	Seat belt warning lamp timer	Seat-belt warning lamp blinks for about 7 seconds when ignition switch is turned to "ON".
6	Seat belt warning chime timer	Sounds warning chime for about 7 seconds if ignition switch is turned "ON" when seat belt switch is "ON" (seat belt is unfastened).

OPERATING CONDITIONS

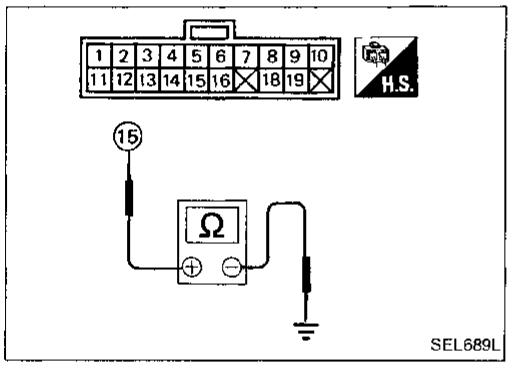
Input signal / Input terminal / Output terminal / Item		Power source from battery	Ignition switch	Light switch	Wiper switch "INT"	Washer switch	Driver's side door switch *1	Seat belt switch *2	Illumination control switch
		⑨	② or ⑤	⑥	⑫	⑬	⑱	⑯	⑦ or ⑧
Intermittent wiper control	①	ON	ACC or ON		ON				
Washer and wiper combination control	⑫	ON	ACC or ON			ON			
Illumination control	⑪	ON		ON					ON
Light warning chime timer	⑲	ON	OFF or ACC	ON			ON		
Seat belt warning lamp timer	⑯	ON	OFF or ACC → ON						
Seat belt warning chime timer	⑲	ON	OFF or ACC → ON					ON	

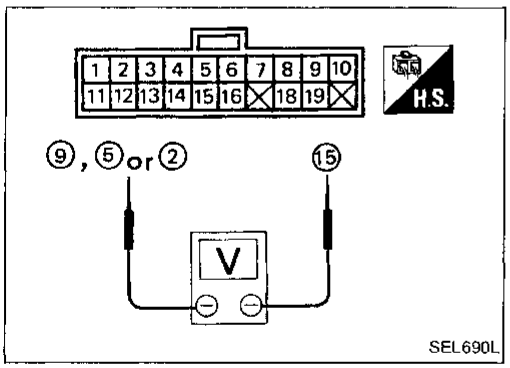
*1 Door switch is turned ON when door is opened.

*2 Seat belt switch is turned ON when driver's side seat belt is unfastened.

Trouble-shooting

Symptom		DIAGNOSTIC PROCEDURE
Wiper & washer	Intermittent wiper does not operate.	1
	Intermittent time of wiper cannot be adjusted.	2
	Wiper and washer activate individually but not in combination	3
Illumination	Illumination control system does not actuate.	4
Warning	Light warning chime does not activate.	5
	Seat belt warning chime does not activate.	6
	Seat belt warning lamp does not go off nor	7
	Ignition key waABing chime does not activate.	9
Rear defogger	Rear defogger does not activate, or does not go off.	8





PREPARATION FOR TROUBLE-SHOOTING

1. Remove driver's side dash side cover.
2. Remove time control unit with harness connected.

POWER SUPPLY CIRCUIT CHECK

1. Connect ohmmeter from harness side.
2. Check continuity between terminal ⑮ and body ground.

Ohmmeter terminals		Continuity
(+)	(−)	
⑮	Body ground	Yes

3. Connect voltmeter from harness side.
4. Measure voltage across terminal ⑮ and terminals ②, ⑤ or ⑨.

Voltmeter terminals		Ignition switch position		
(+)	(−)	OFF	ACC	ON
⑨	⑮	Approx. 12V	Approx. 12V	Approx. 12V
⑤	⑮	0V	0V	Approx. 12V
②	⑮	0V	Approx. 12V	Approx. 12V

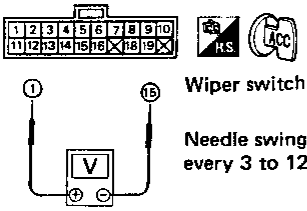
Trouble-shooting (Cont'd)

DIAGNOSTIC PROCEDURE-1

Intermittent wiper does not operate.

A T.C.U. OUTPUT FOR WIPER RELAY CIRCUIT CHECK

Measure voltage across ① and ⑮.



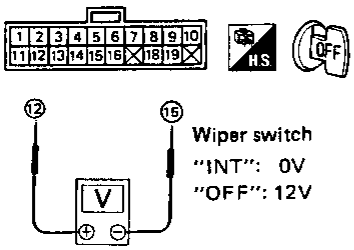
Wiper switch → "INT"

Needle swings from 0 to 12V every 3 to 12 seconds.

SEL652L

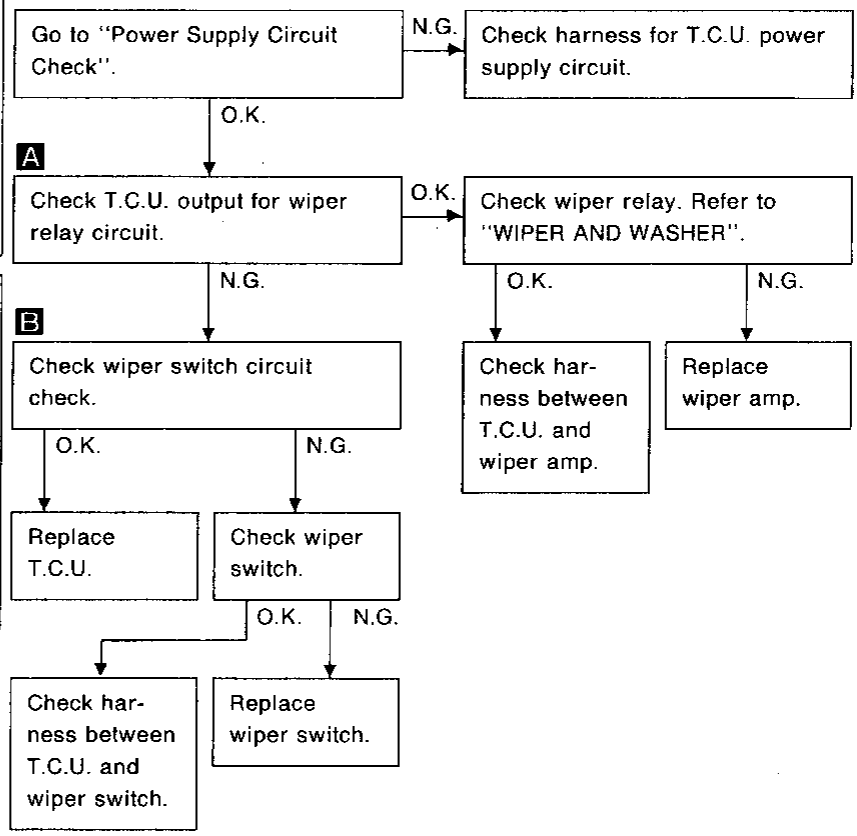
B WIPER SWITCH CIRCUIT CHECK

Check continuity between ⑫ and ⑮.



Wiper switch
"INT": 0V
"OFF": 12V

SEL653L

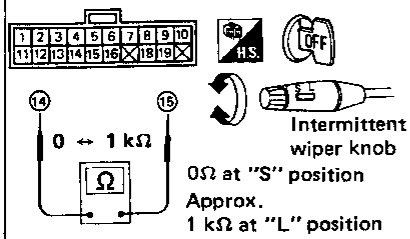


DIAGNOSTIC PROCEDURE-2

Intermittent time of wiper cannot be adjusted.

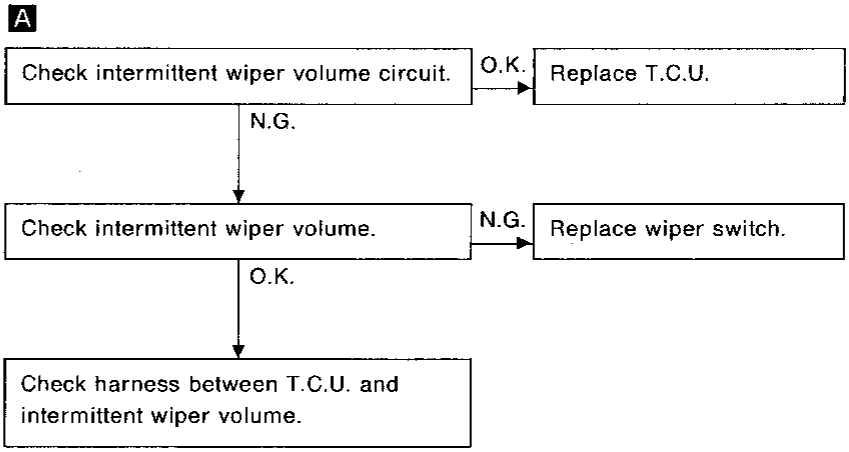
A INTERMITTENT WIPER VOLUME CIRCUIT CHECK

Measure resistance between ⑭ and ⑮ while turning intermittent wiper volume.



Intermittent wiper knob
0Ω at "S" position
Approx. 1 kΩ at "L" position

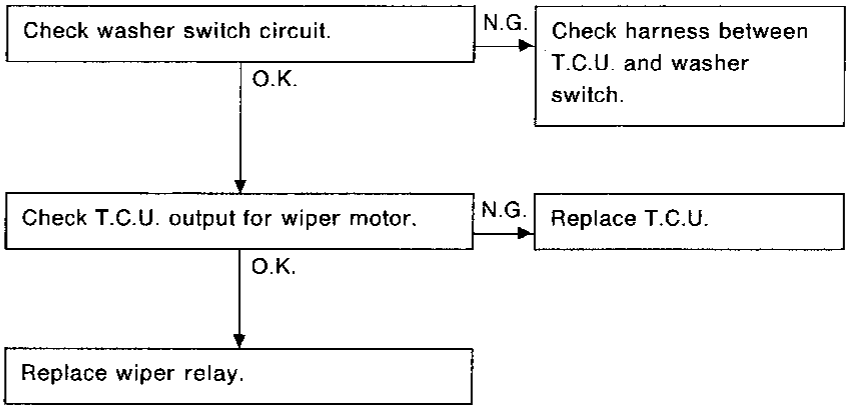
SEL654L



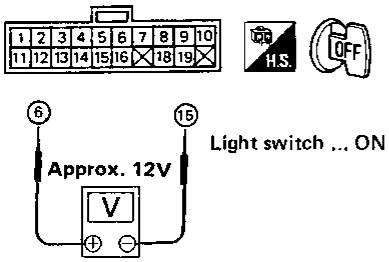
Trouble-shooting (Cont'd)

DIAGNOSTIC PROCEDURE-3

Wiper and washer activate individually but not in combination.

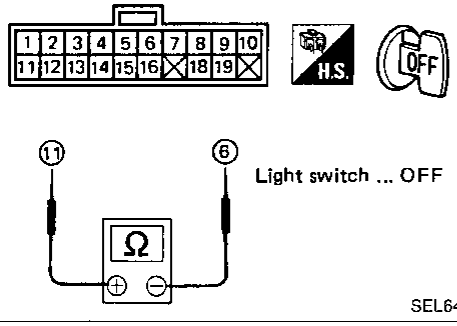


A T.C.U. OUTPUT FOR LIGHT SWITCH CIRCUIT CHECK



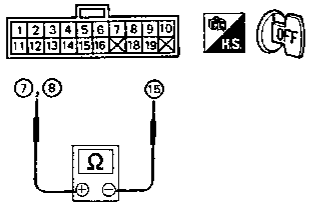
SEL648L

B ILLUMINATION CIRCUIT CHECK



SEL649L

C ILLUMINATION CONTROL CIRCUIT CHECK

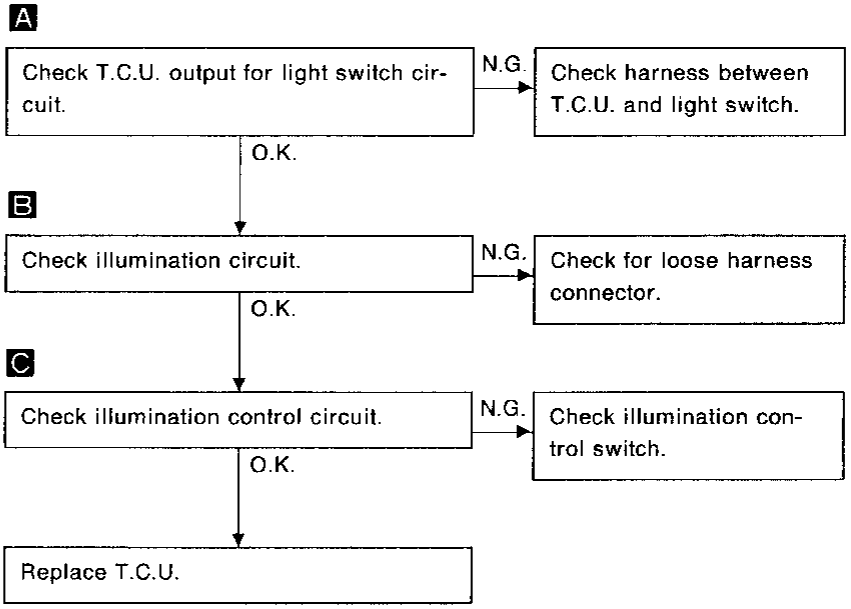


Ohmmeter (+)	Ohmmeter (−)	Illumination control switch: DARK	Illumination control switch: BRIGHT
⑧	⑮	0Ω	Except 0Ω
⑦	⑫	Except 0Ω	0Ω

SEL650L

DIAGNOSTIC PROCEDURE-4

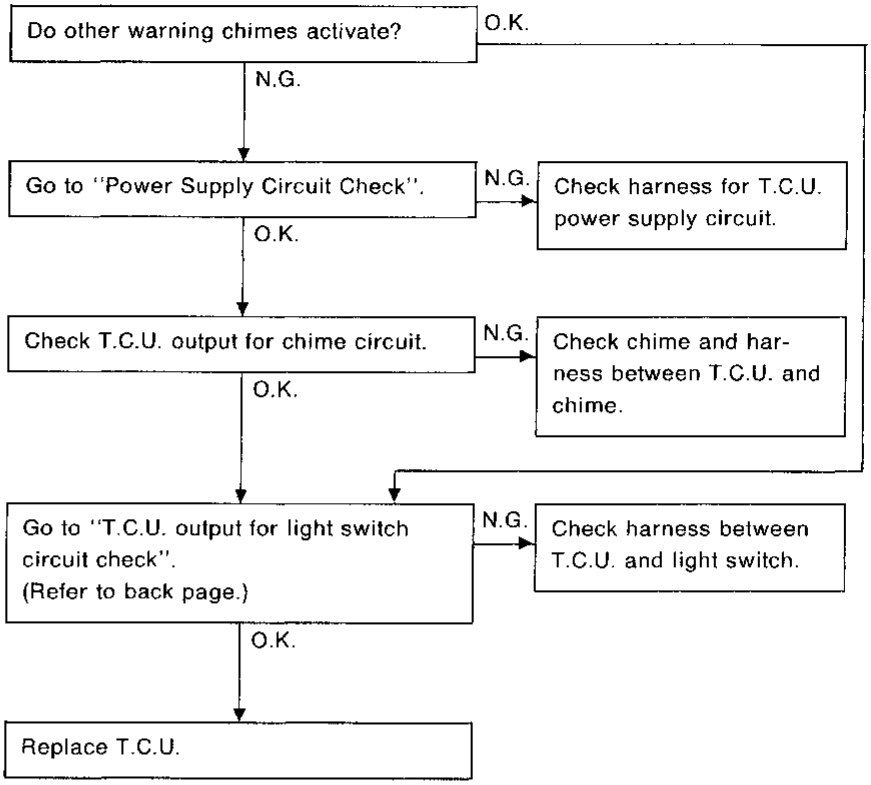
Illumination control system does not actuate.



Trouble-shooting (Cont'd)

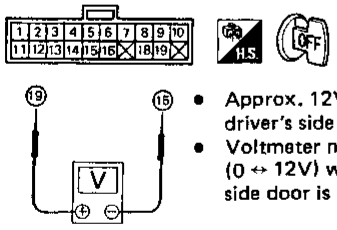
DIAGNOSTIC PROCEDURE-5

Light warning chime does not activate.



A **T.C.U. OUTPUT FOR CHIME CIRCUIT CHECK**

Measure voltage across ⑲ and ⑮ when driver's door is opened and closed.

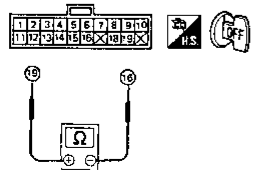


- Approx. 12V when driver's side door is closed.
- Voltmeter needle swings (0 ↔ 12V) when driver's side door is opened.

SEL642L

B **SEAT BELT SWITCH CIRCUIT CHECK**

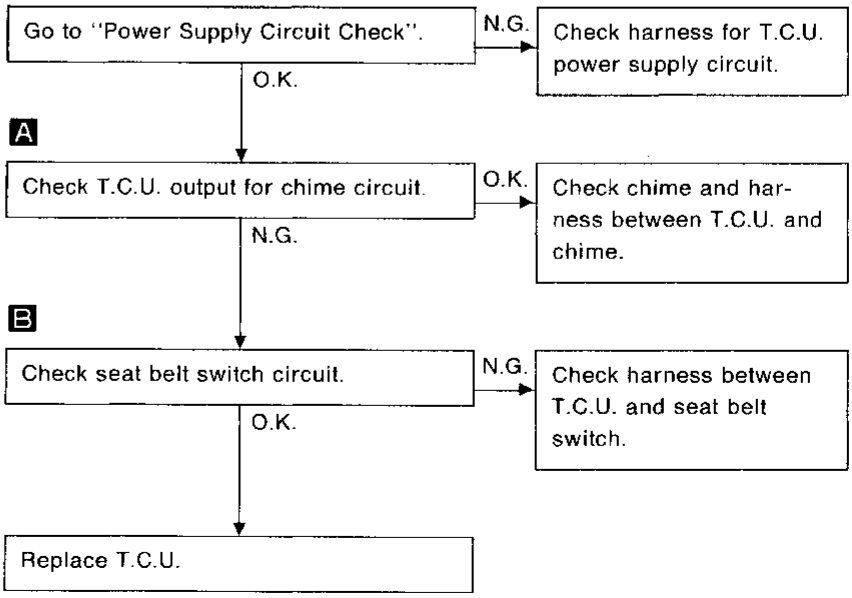
1. Unfasten driver's seat belt.
2. Check continuity between ⑲ and ⑯.
3. Fasten driver's seat belt.
4. Check to determine if continuity does not exist between ⑲ and ⑯.



SEL643L

DIAGNOSTIC PROCEDURE-6

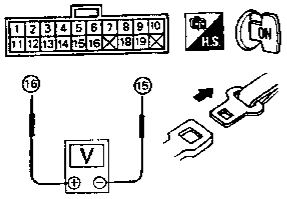
Seat belt warning chime does not activate.



Trouble-shooting (Cont'd)

T.C.U. OUTPUT FOR BELT WARNING LAMP CIRCUIT CHECK

Measure voltage across ⑯ and ⑮ when ignition switch is "ON".



SEL651L

DIAGNOSTIC PROCEDURE-7

Seat belt warning lamp does not go off nor comes on.

Go to "Power Supply Circuit Check". — N.G. → Check harness for T.C.U. power supply circuit.

O.K. ↓

Check T.C.U. output for belt warning lamp circuit. — N.G. → Replace T.C.U.

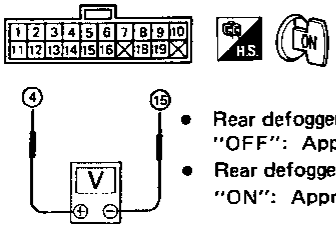
Voltmeter needle keeps swinging (approx. 0 ↔ 12V) for about 7 seconds after ignition switch is turned ON.

O.K. ↓

Check warning lamp, and harness between T.C.U. and warning lamp.

A T.C.U. OUTPUT FOR REAR DEFOGGER CIRCUIT CHECK

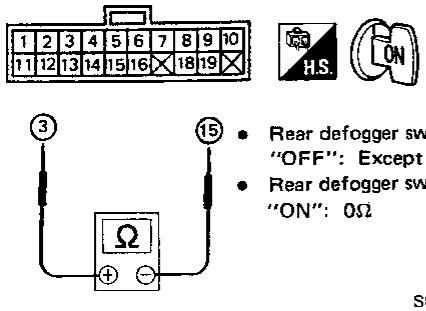
Measure voltage across ④ and ⑮ while operating rear defogger switch.



- Rear defogger switch "OFF": Approx. 12V
- Rear defogger switch "ON": Approx. 0V

SEL644L

B DEFOGGER SWITCH CIRCUIT CHECK



- Rear defogger switch "OFF": Except 0Ω
- Rear defogger switch "ON": 0Ω

SEL645L

DIAGNOSTIC PROCEDURE-8

Rear defogger does not activate, or does not go off.

Go to "Power Supply Circuit Check". — N.G. → Check harness for T.C.U. power supply circuit.

O.K. ↓

A

Check T.C.U. output for rear defogger circuit. — O.K. → Check rear defogger relay, and harness between T.C.U. and rear defogger relay.

N.G. ↓

B

Check defogger switch circuit. — N.G. → Check defogger switch, and harness between T.C.U. and defogger switch.

O.K. ↓

Replace T.C.U.

Trouble-shooting (Cont'd)

DIAGNOSTIC PROCEDURE-9

Ignition key warning chime does not activate.

Go to "Power Supply Circuit Check". — N.G. → Check harness for T.C.U. power supply circuit.

O.K. ↓

A

Check key switch circuit. — N.G. → Check key switch or harness.

O.K. ↓

B

Check T.C.U. output for chime circuit. — O.K. → Check chime and harness between T.C.U. and chime.

N.G. ↓

C

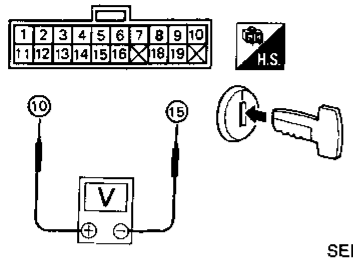
Check driver's door switch circuit. — N.G. → Check harness between T.C.U. and driver's door switch.

O.K. ↓

Replace T.C.U.

A **KEY SWITCH CIRCUIT CHECK**

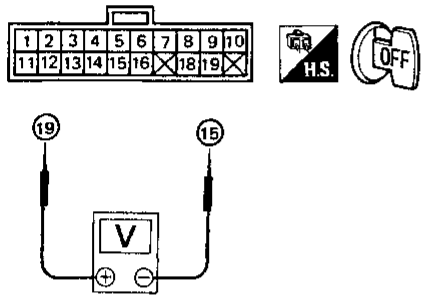
Measure voltage across ⑩ and ⑮.



SEL773R

B **T.C.U. OUTPUT FOR CHIME CIRCUIT CHECK**

Measure voltage across ⑲ and ⑮ when driver's door is opened and closed.

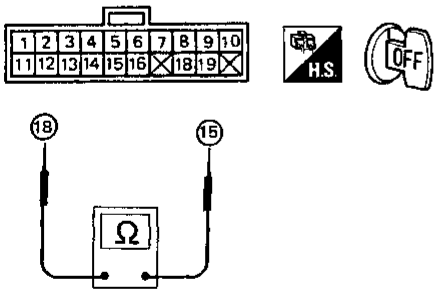


- Approx. 12V when driver's side door is opened.

SEL639L

C **DRIVER'S DOOR SWITCH CIRCUIT CHECK**

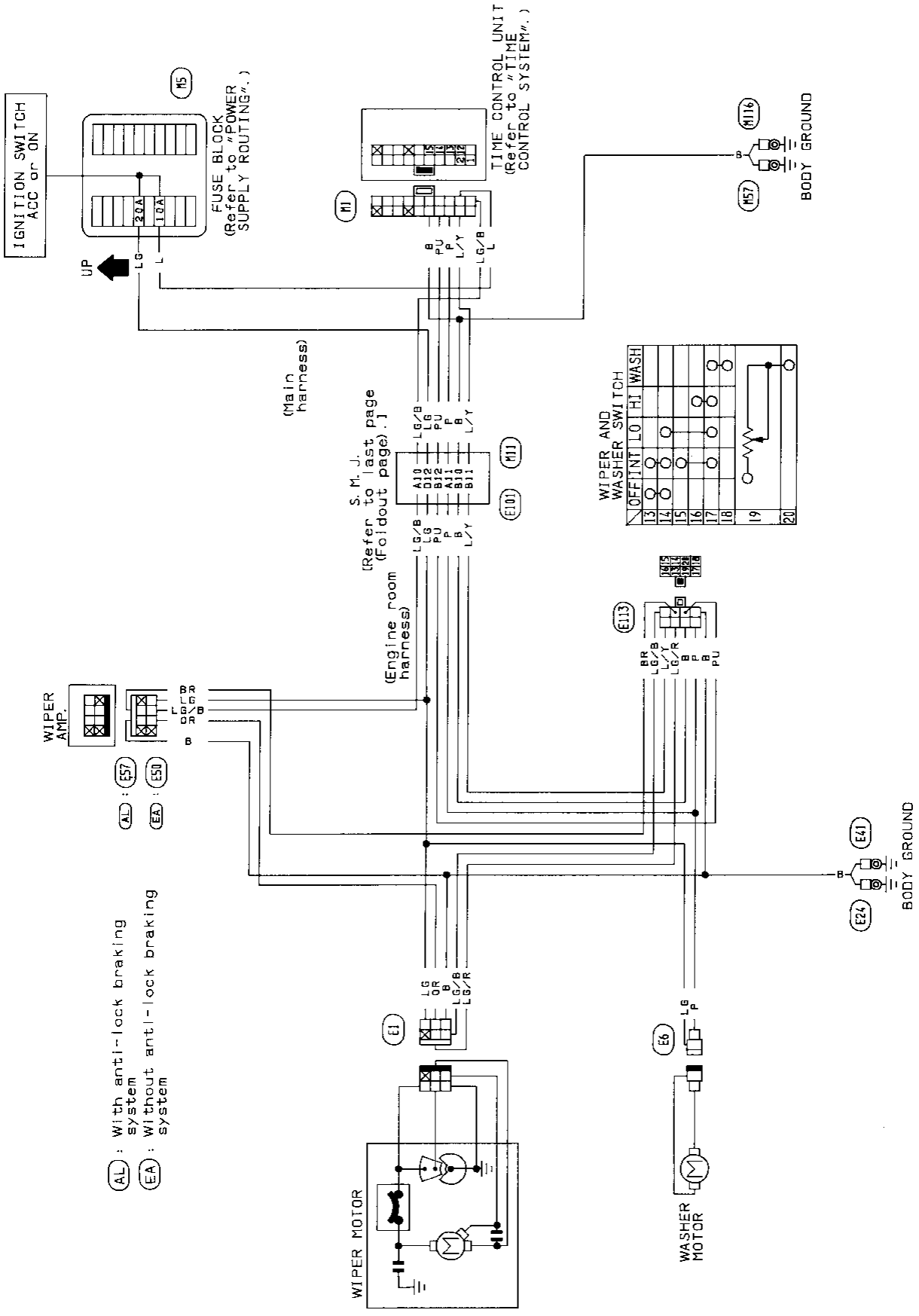
Check continuity between ⑱ and ⑮.



Driver's side door ... Open

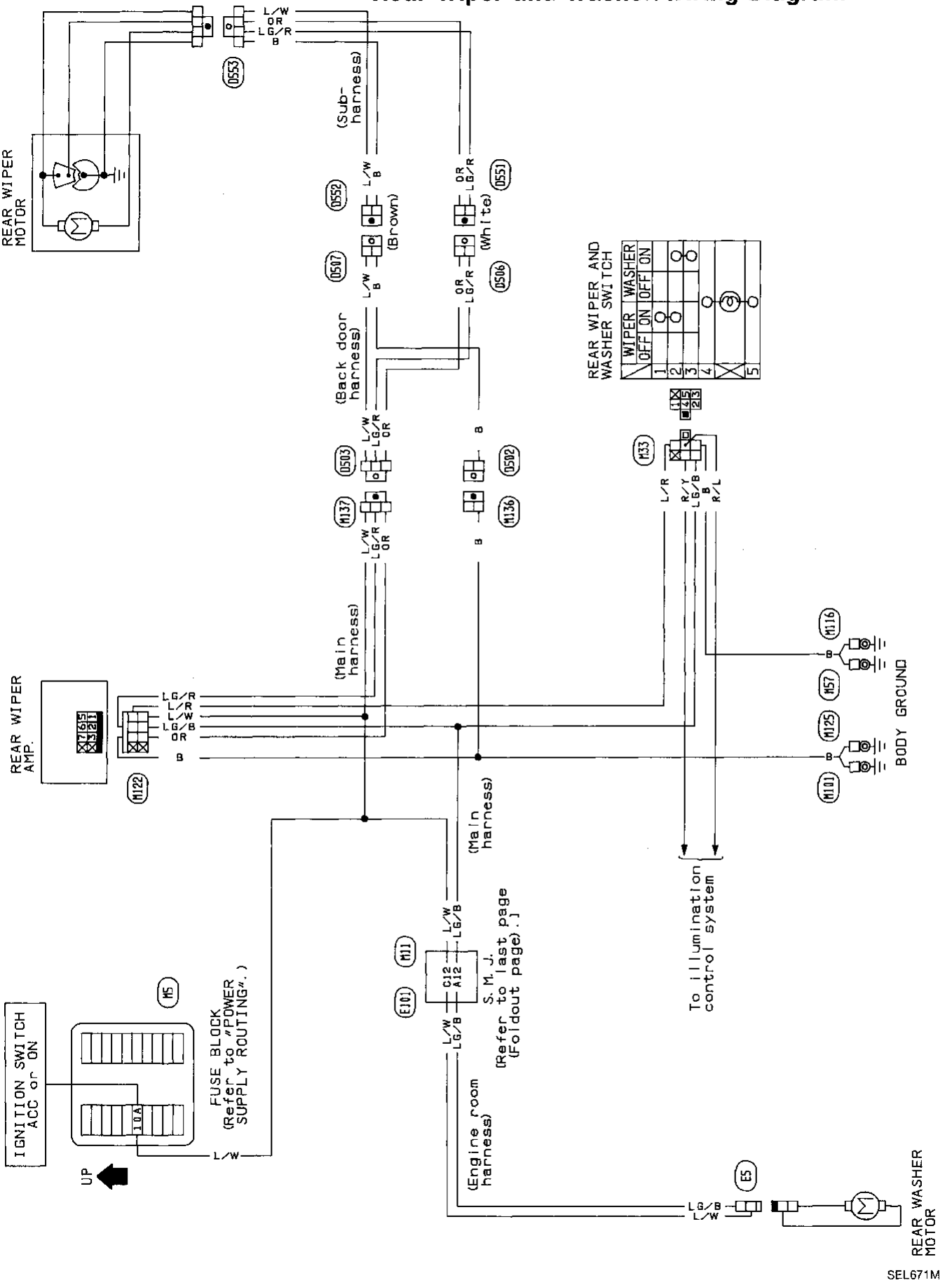
SEL640L

Front Wiper and Washer/Wiring Diagram



SEL588M

Rear Wiper and Washer/Wiring Diagram



Wiper and Washer Adjustment

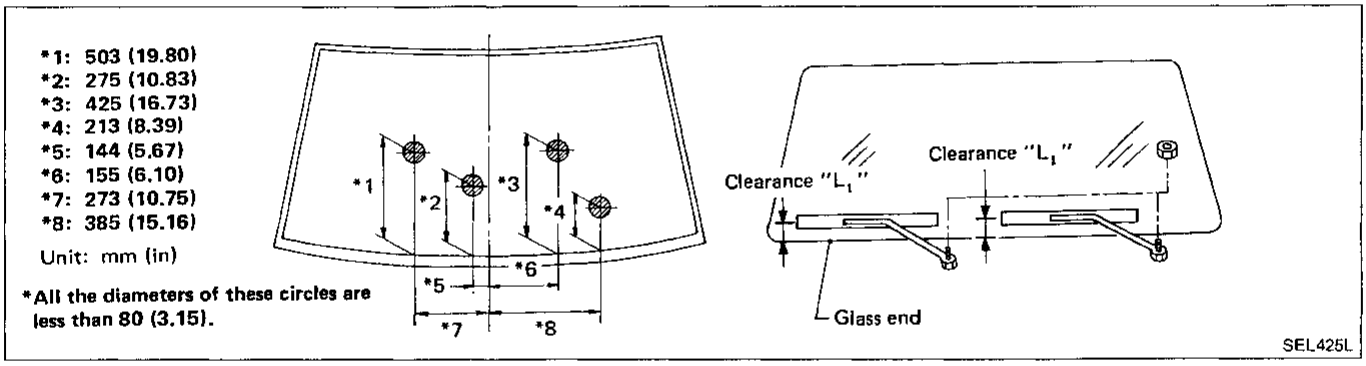
INSTALLATION

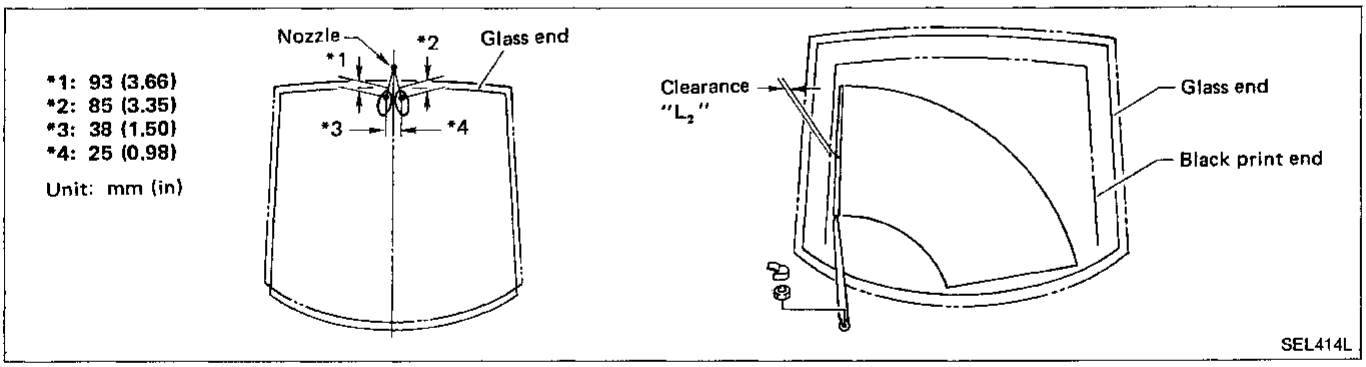
1. Prior to wiper arm installation, turn on wiper switch to operate wiper motor and then turn it "OFF" (Auto Stop).
2. Lift the blade up and then set it down onto glass surface to set the blade center to clearance "L_1" & "L_2" immediately before tightening nut.
3. Eject washer fluid. Turn on wiper switch to operate wiper motor and then turn it "OFF".
4. Ensure that wiper blades stop within clearance "L_1" & "L_2".

   Clearance "L_1": 17.5 - 32.5 mm (0.689 - 1.280 in)
   Clearance "L_2": 25 - 35 mm (0.98 - 1.38 in)

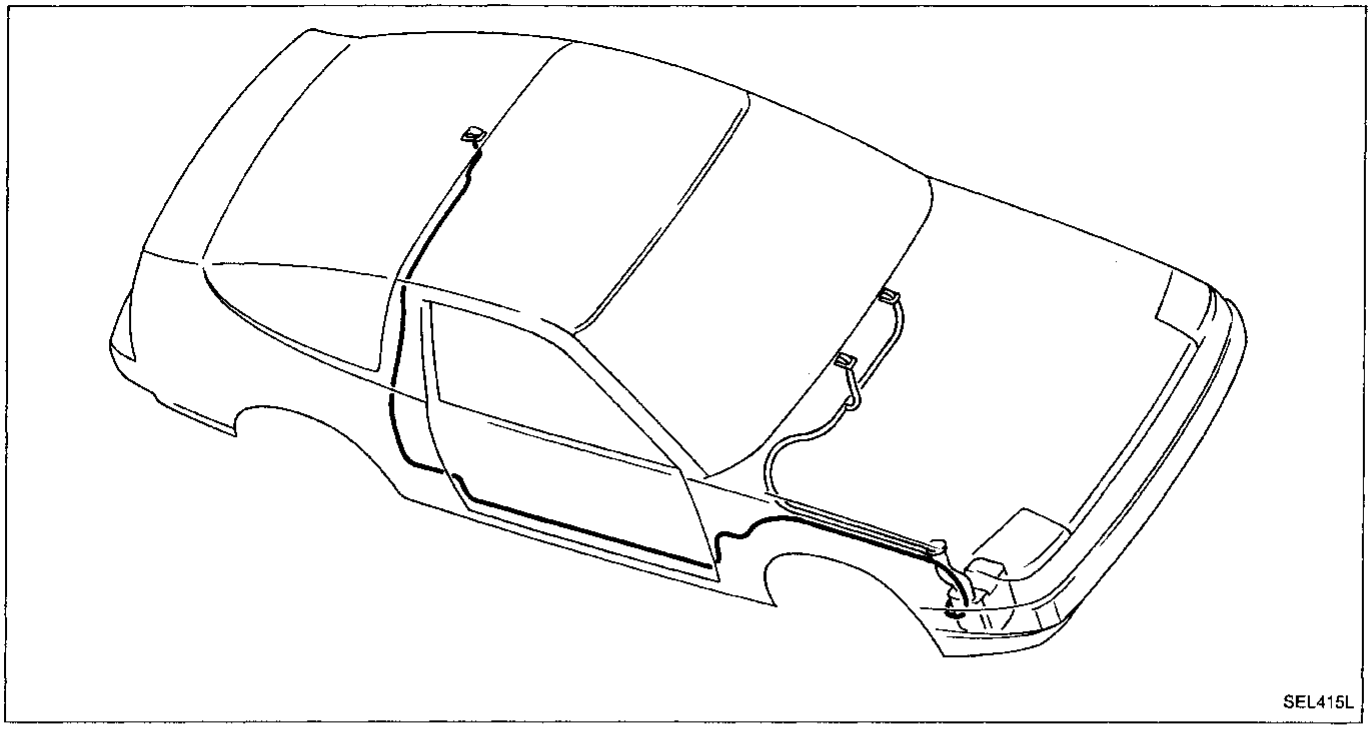
- Tighten wiper arm nuts to specified torque.

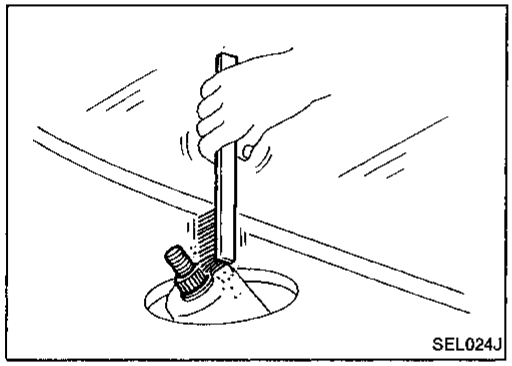
  Front wiper: 17 - 23 N·m (1.7 - 2.3 kg-m, 12 - 17 ft-lb)
  Rear wiper: 13 - 18 N·m (1.3 - 1.8 kg-m, 9 - 13 ft-lb)



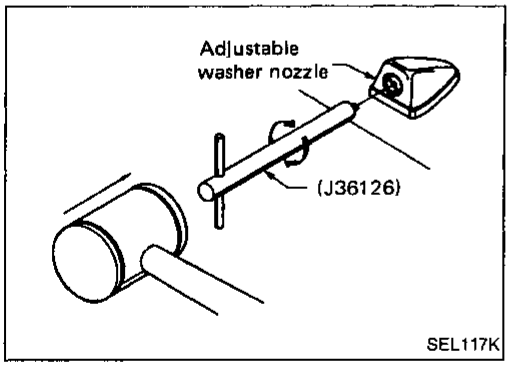


Wiper and Washer Adjustment (Cont'd)





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

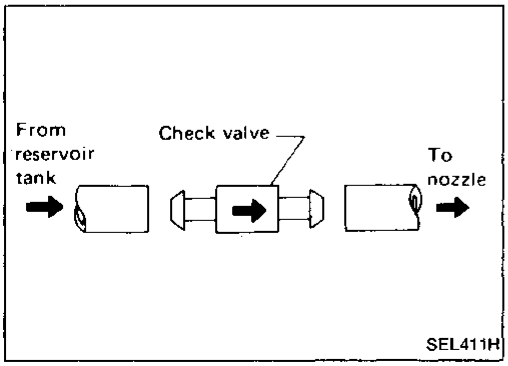


Washer Nozzle Adjustment

- Using Tool (J36126), adjust windshield washer nozzle to correct its spray pattern.

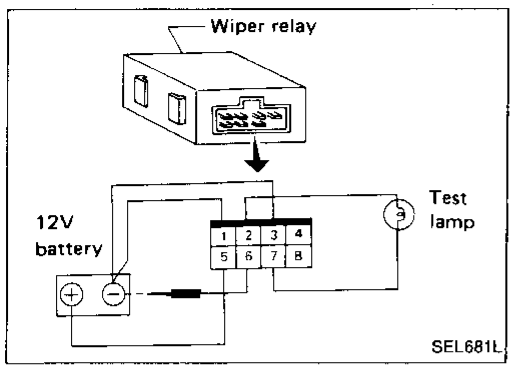
Special Service Tool:
Tool number: J36126
Tool name: Washer nozzle adjusting tool

Before attempting to turn the nozzle, gently tap the end of the tool to free the nozzle.
This will prevent "rounding out" the small female square in the center of the nozzle.



Check Valve

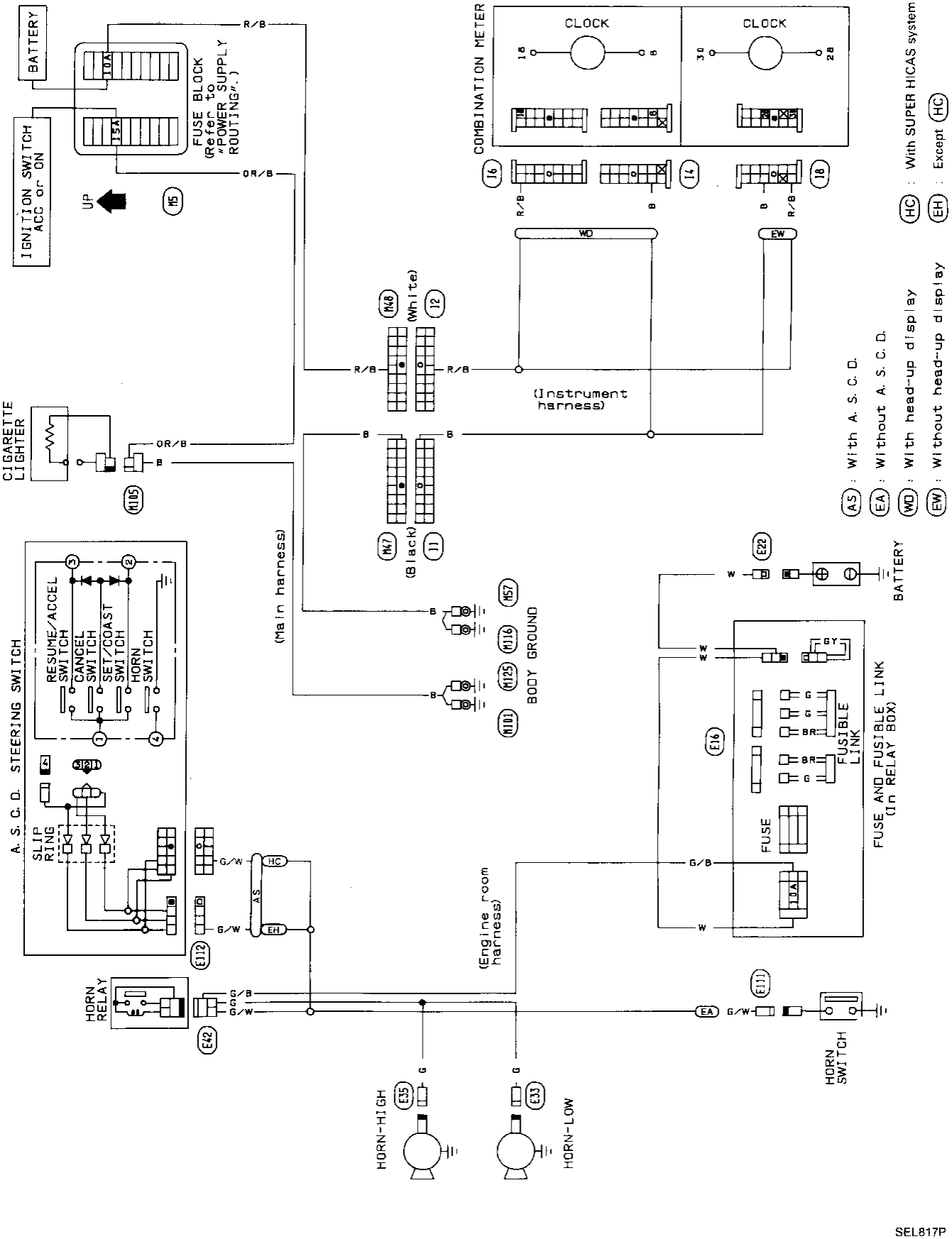
- A check valve is provided in the washer fluid line. Be careful not to connect check valve to washer tube in the wrong direction.



Wiper Amplifier Check

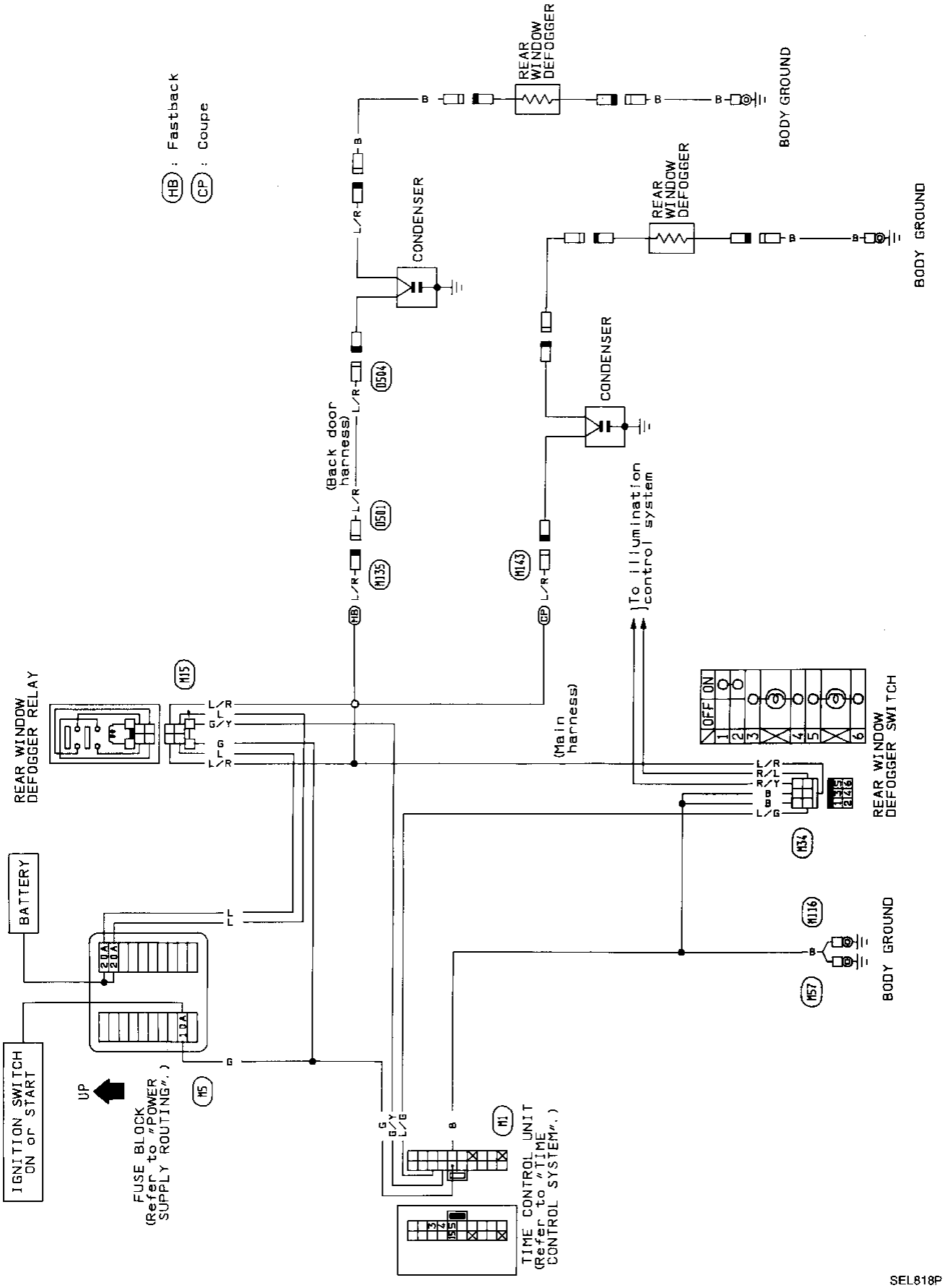
1. Connect as shown in the figure at left.
2. If test lamp comes on when connected to terminal ⑥ and battery ground, wiper relay is normal.

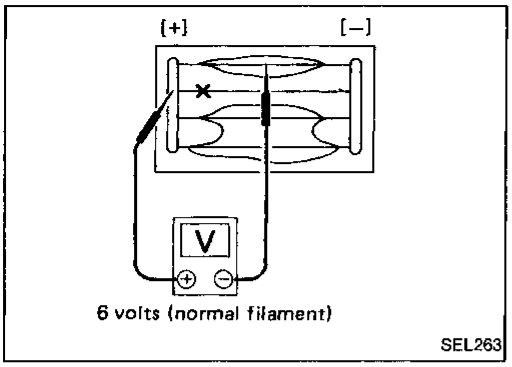
Wiring Diagram



SEL817P

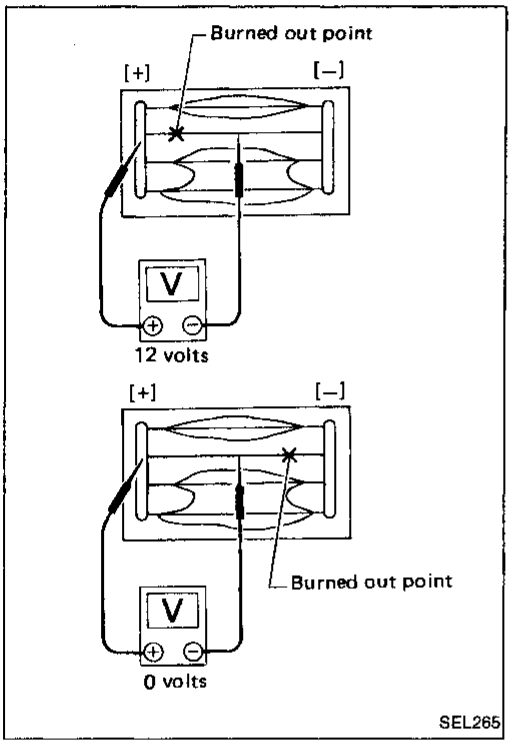
Wiring Diagram



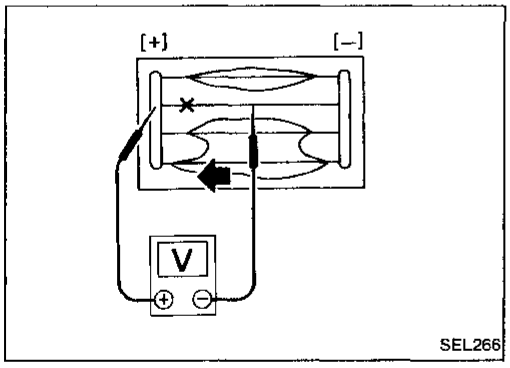


Filament Check

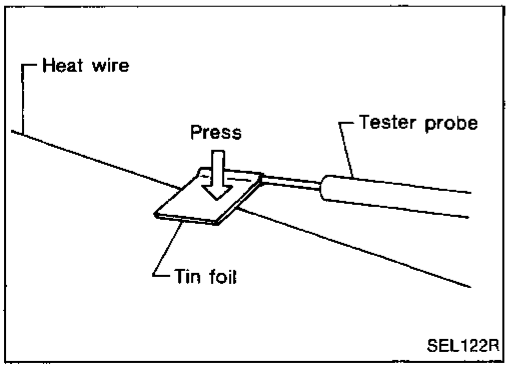
1. Attach probe circuit tester (in volt range) to middle portion of each filament.



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.

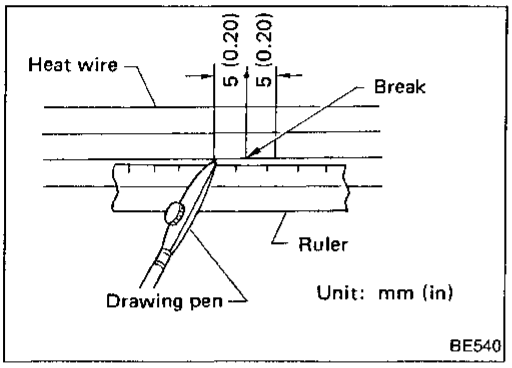


- **When measuring voltage, wind a piece of tin foil around the top of the negative probe and press the foil against the wire with your finger as shown.**

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

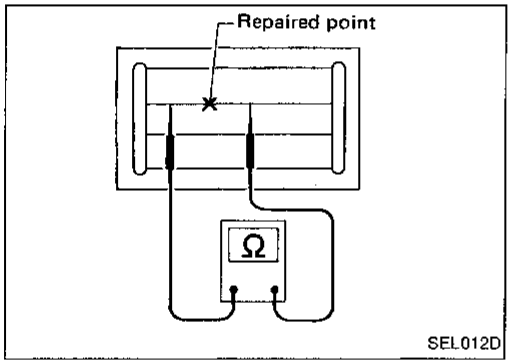


REPAIRING PROCEDURE

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.

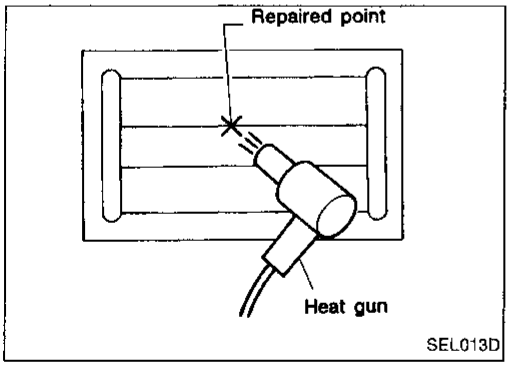
Shake silver composition container before use.

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 (0.20 in)] of the break.



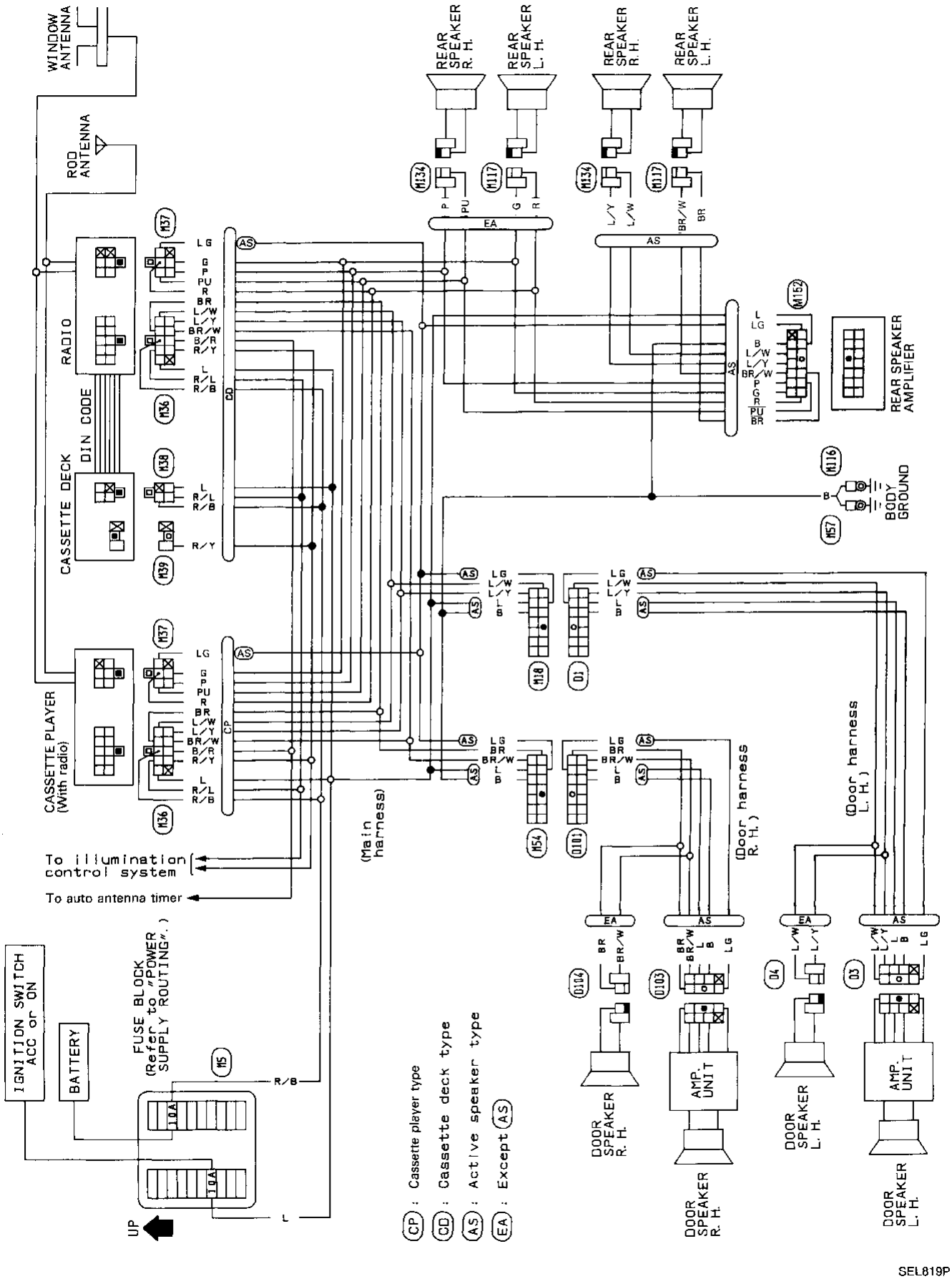
4. After repair has been completed, check repaired wire for continuity. This check should be conducted 10 minutes after silver composition is deposited.

Do not touch repaired area while test is being conducted.



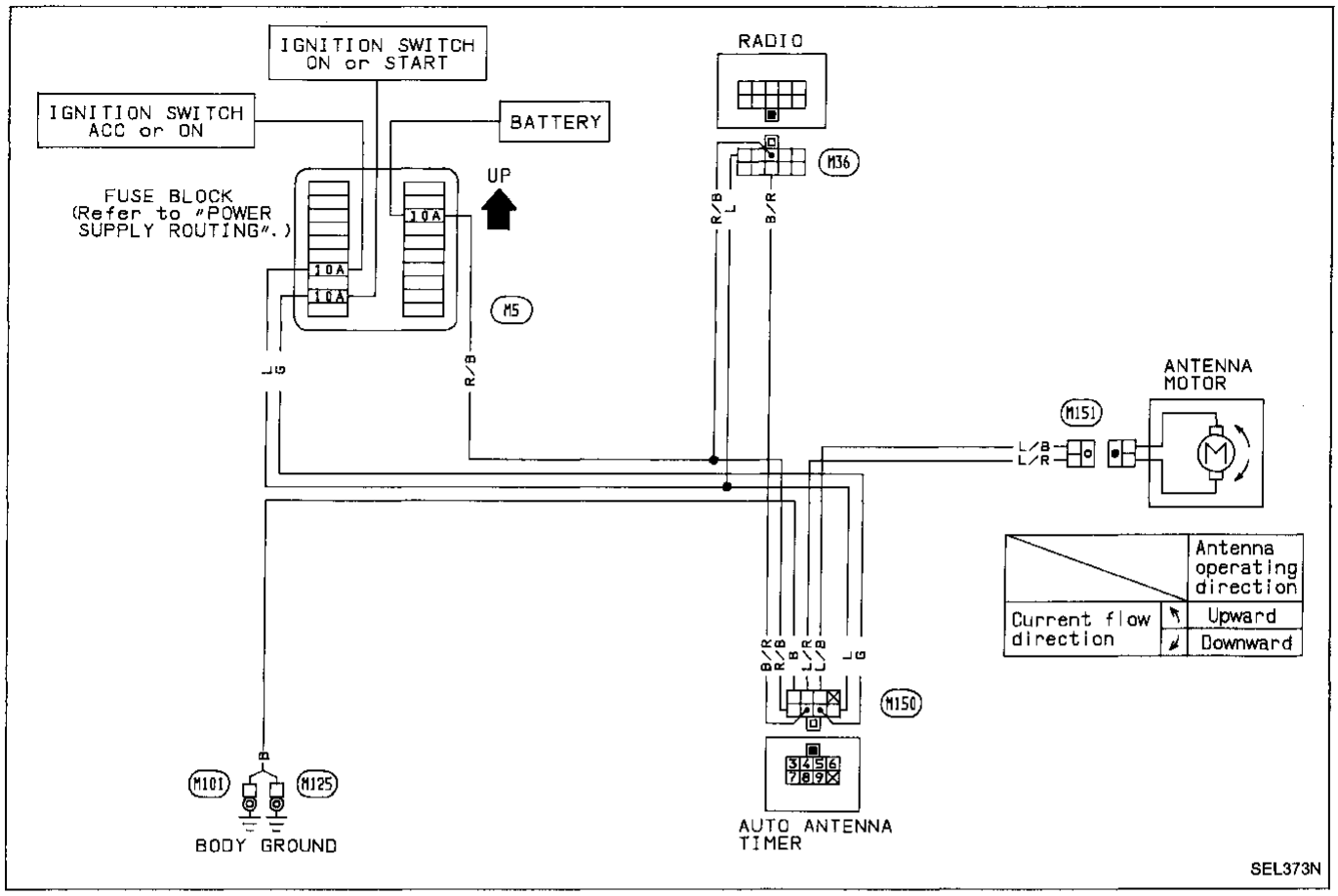
5. Apply a constant stream of hot air directly to the repaired area for approximately 20 minutes with a heat gun. A minimum distance of 3 cm (1.2 in) should be kept between repaired area and hot air outlet. If a heat gun is not available, let the repaired area dry for 24 hours.

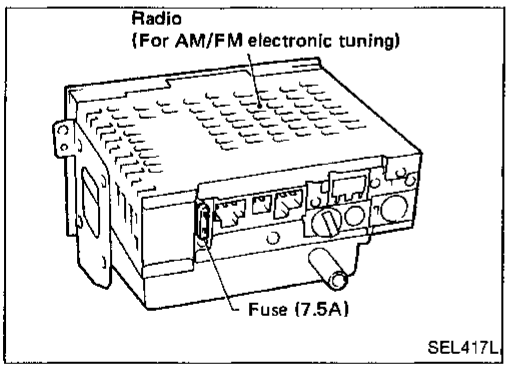
Audio/Wiring Diagram



SEL819P

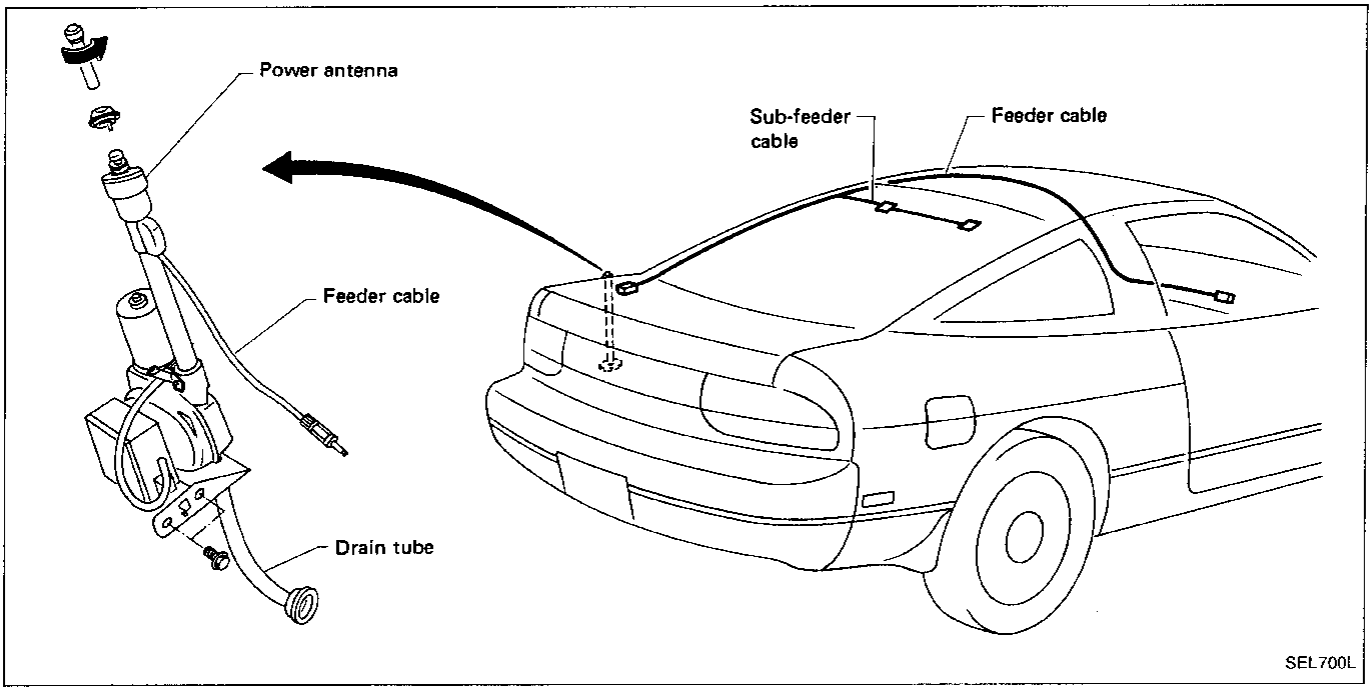
Power Antenna/Wiring Diagram

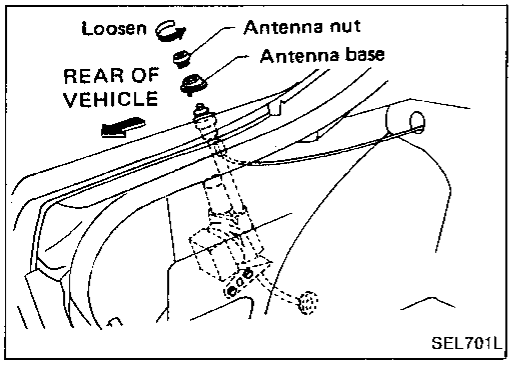




Radio Fuse Check

Location of Antenna

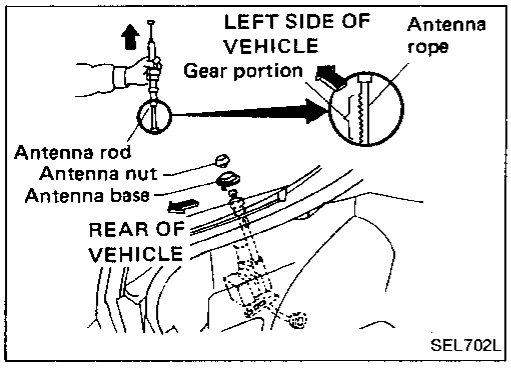




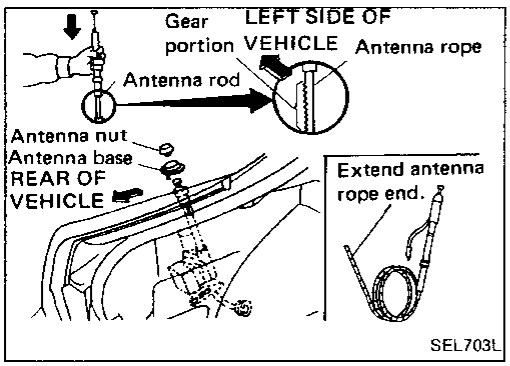
Antenna Rod Replacement

REMOVAL

1. Remove antenna nut and antenna base.



2. Withdraw antenna rod while raising it by operating antenna motor.
   (Turn radio switch from "OFF" to "ON" to operate antenna motor.)

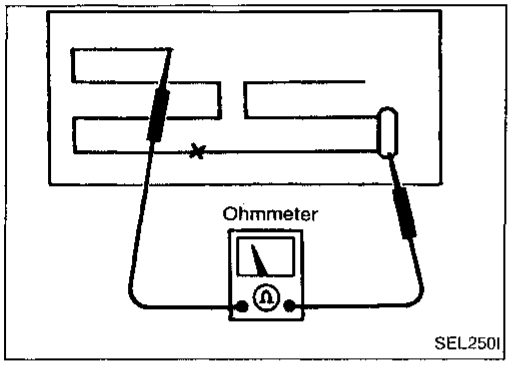


INSTALLATION

1. Lower antenna rod by operating antenna motor.
   (Turn radio switch from "ON" to "OFF".)
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.

Antenna Rod Replacement (Cont'd)

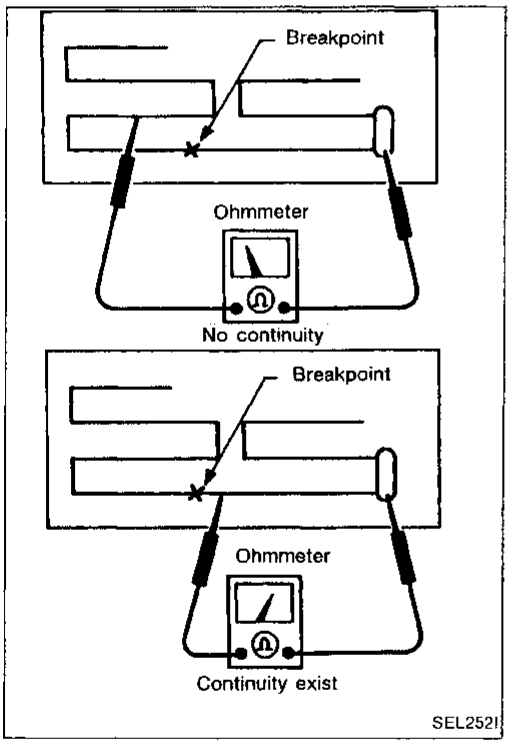
4. Retract antenna rod completely by operating antenna motor.
   (If the antenna motor stops before antenna has fully retracted, turn radio switch to "ON" and immediately turn to "OFF" again.)
5. Install antenna nut and base.



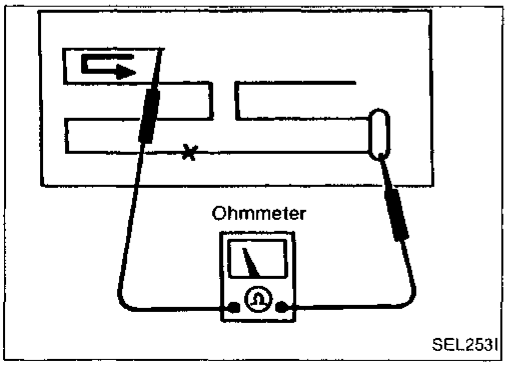
Window Antenna Repair

ELEMENT CHECK

1. Attach probe circuit tester (in ohm range) to antenna terminal on each side.



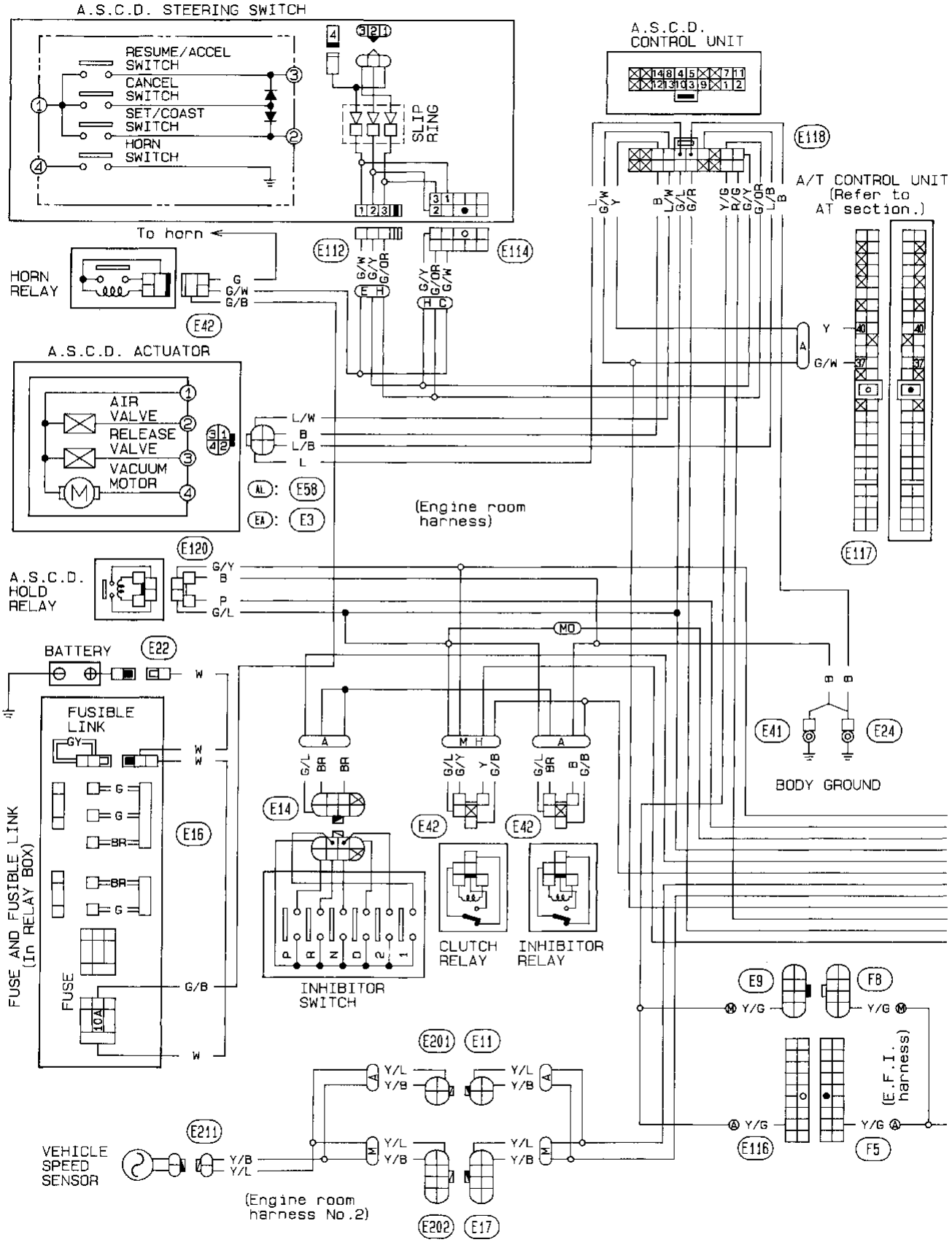
2. If an element is broken, no continuity will exist.



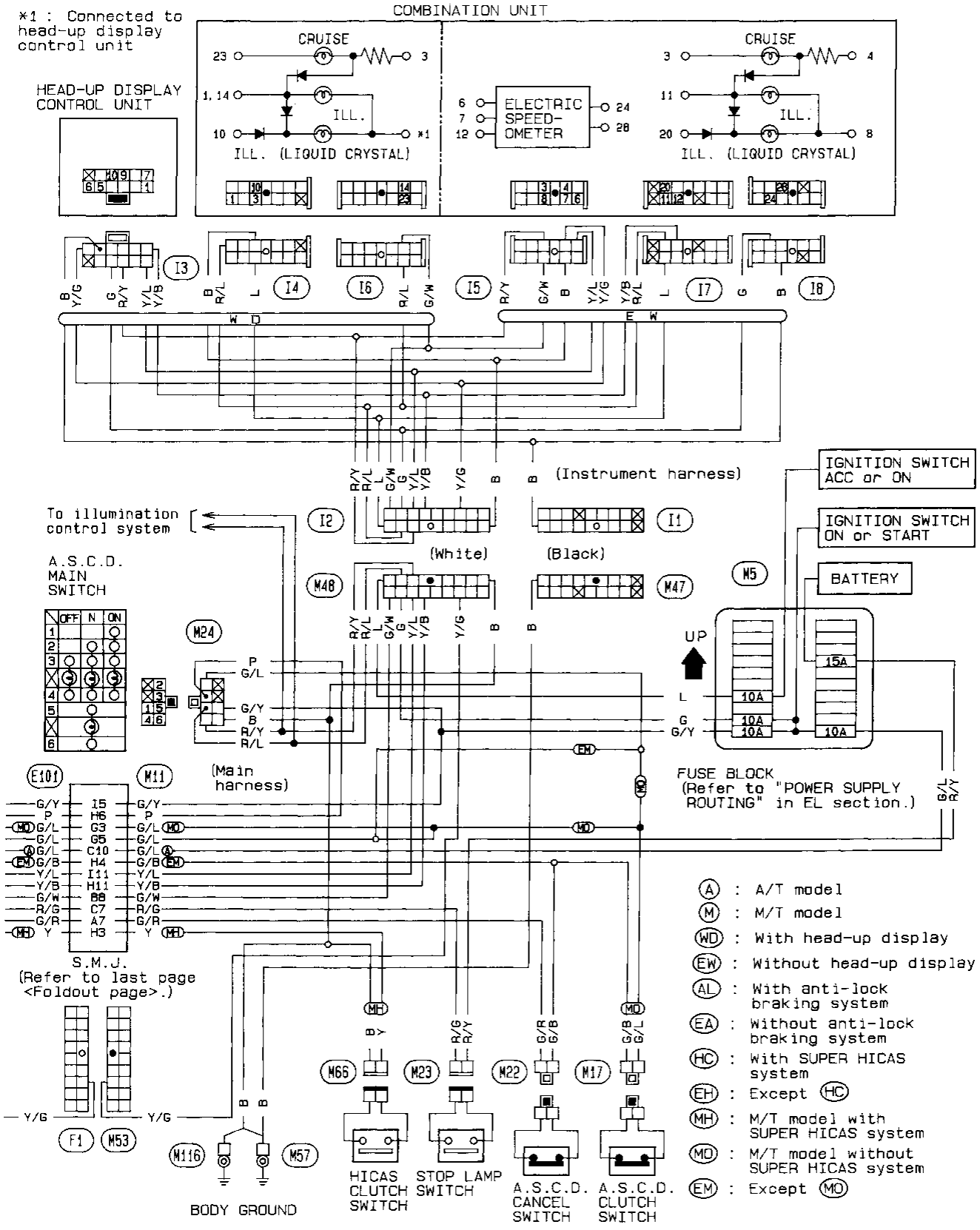
3. To locate broken point, move probe to left and right along element to determine point where tester needle swings abruptly.

- **Refer to REAR WINDOW DEFOGGER "Filament Repair" for Element Repair.**

Wiring Diagram

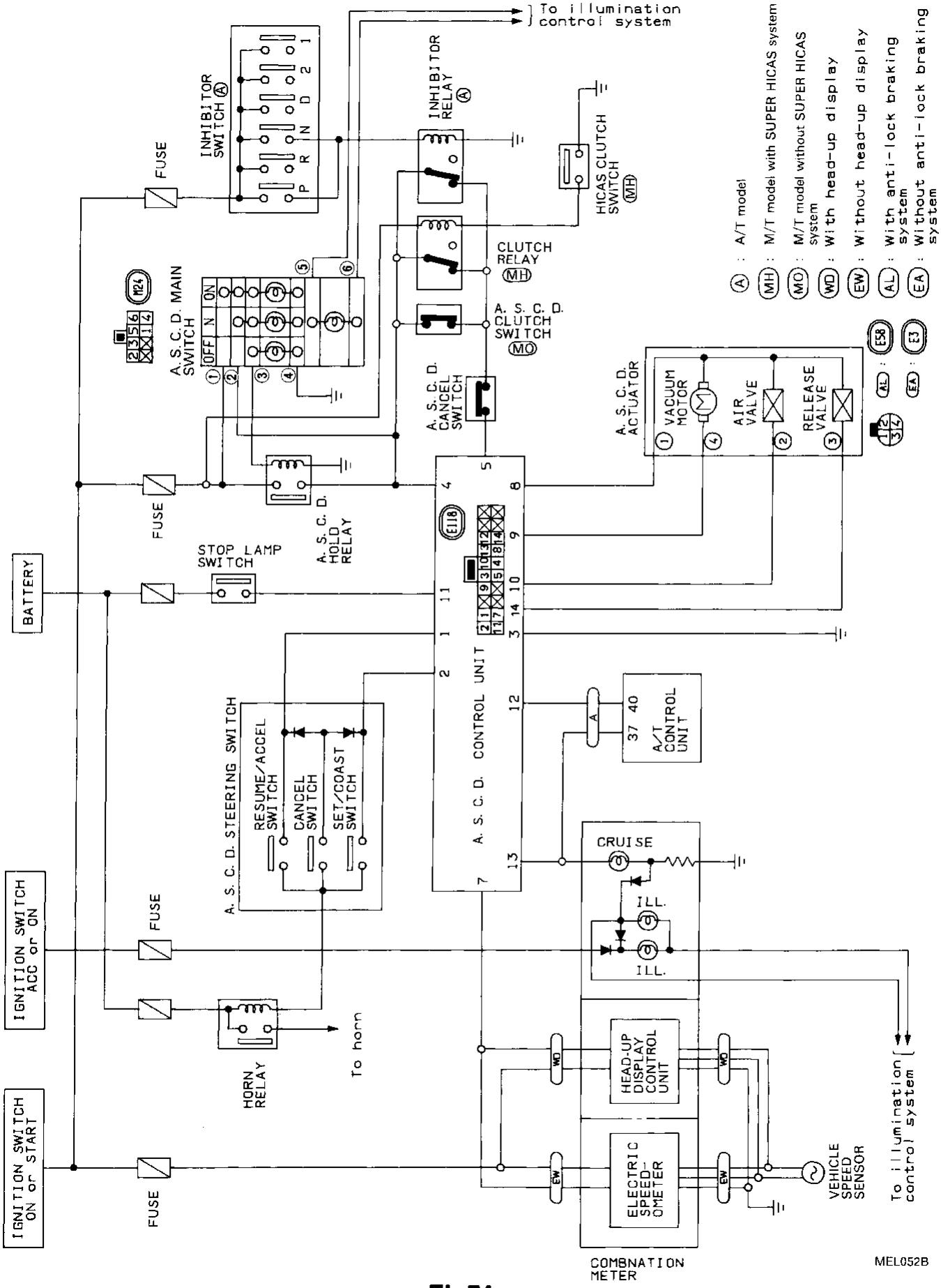


Wiring Diagram (Cont'd)



MEL053B

Schematic


To illumination control system
INHIBITOR SWITCH
INHIBITOR RELAY
HICAS CLUTCH SWITCH
FUSE
CLUTCH RELAY
A. S. C. D. CLUTCH SWITCH
A. S. C. D. MAIN SWITCH
A. S. C. D. CANCEL SWITCH
A. S. C. D. ACTUATOR
VACUUM MOTOR
AIR VALVE
RELEASE VALVE
A. S. C. D. HOLD RELAY
STOP LAMP SWITCH
BATTERY
A. S. C. D. CONTROL UNIT
A. S. C. D. STEERING SWITCH
RESUME/ACCEL SWITCH
CANCEL SWITCH
SET/COAST SWITCH
A/T CONTROL UNIT
CRUISE
ILL.
IGNITION SWITCH ACC or ON
IGNITION SWITCH ON or START
HORN RELAY
To horn
HEAD-UP DISPLAY CONTROL UNIT
ELECTRIC SPEED-OMETER
VEHICLE SPEED SENSOR
To illumination control system
COMBNATION METER
A : A/T model
M/T model with SUPER HICAS system
M/T model without SUPER HICAS system
With head-up display
Without head-up display
With anti-lock braking system
Without anti-lock braking system
MEL052B

Trouble Diagnoses

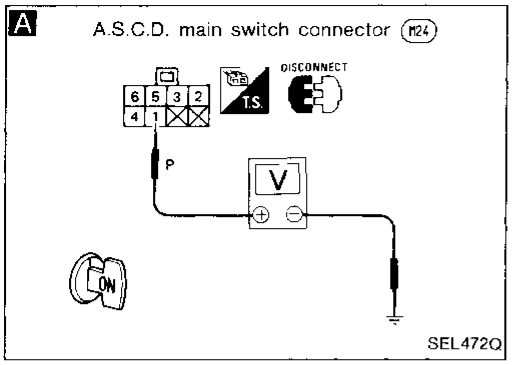
SYMPTOM CHART

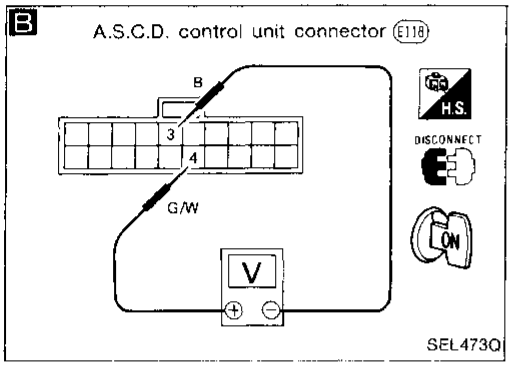
PROCEDURE	Diagnostic Procedure								Electrical Components Inspection							
REFERENCE PAGE	EL-76	EL-78	EL-78	EL-78	EL-79	EL-80	EL-81	EL-82	EL-83	EL-84	EL-85	EL-85	EL-85	EL-85	EL-86	EL-86
SYMPTOM	Diagnostic Procedure 1	Diagnostic Procedure 2	Diagnostic Procedure 3	Diagnostic Procedure 4	Diagnostic Procedure 5	Diagnostic Procedure 6	Diagnostic Procedure 7	Diagnostic Procedure 8	A.S.C.D. wire adjustment	A.S.C.D. actuator/A.S.C.D. pump	A.S.C.D. main switch	A.S.C.D. steering switch	A.S.C.D. cancel switch and stop lamp switch	A.S.C.D. clutch switch (For M/T models)	Inhibitor switch (For A/T models)	Speed sensor
A.S.C.D. control unit cannot be set properly.	○									○	○	○	○	○	○	○
Engine hunts		○							○	○						
Large difference between set speed and actual vehicle speed.			○						○	○						
Deceleration is greatest immediately after A.S.C.D. has been set.				○					○	○						
ACCEL switch will not operate.	○				○							○				
RESUME switch will not operate.	○					○						○	○	○		
Set speed cannot be cancelled.							○		○	○			○	○		
"CRUISE" indicator lamp blinks.								○		○		○	○			

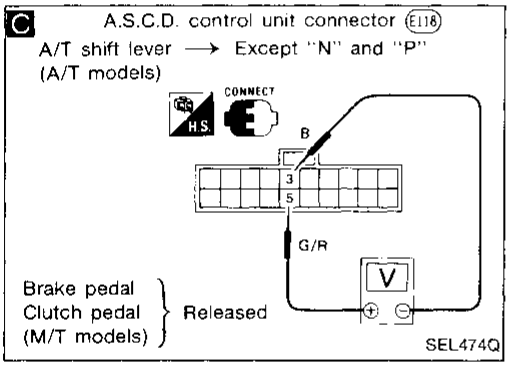
Trouble Diagnoses (Cont'd)

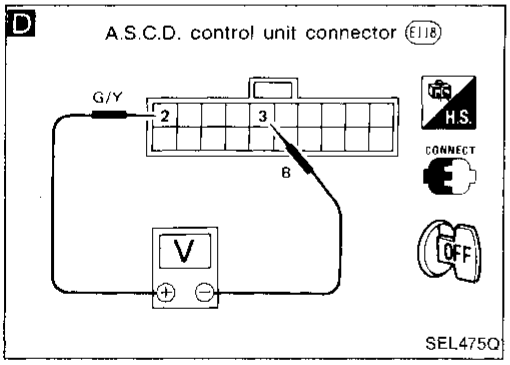
DIAGNOSTIC PROCEDURE 1

SYMPTOM: A.S.C.D. control cannot be set.









A

Turn A.S.C.D. main switch "OFF" and "ON" to make sure indicator illuminates.

N.G. → CHECK POWER SUPPLY FOR A.S.C.D. MAIN SWITCH.
1. Disconnect main switch harness connector.
2. Do approx. 12 volts exist between main switch harness terminal ① and body ground?

No → Check fuse and harness.

Yes → CHECK A.S.C.D. MAIN SWITCH.
Refer to "Electrical Components Inspection".
CHECK A.S.C.D. HOLD RELAY.

O.K.

B

CHECK POWER SUPPLY CIRCUIT FOR A.S.C.D. CONTROL UNIT.
1. Turn A.S.C.D. main switch "ON".
2. Check voltage between control unit harness terminals ④ and ③.
Battery voltage should exist.

N.G. → Check continuity between control unit harness terminal ④ and A.S.C.D. hold relay.

O.K.

C

CHECK CUT-OFF CIRCUIT FOR A.S.C.D. CONTROL UNIT.
Check voltage between control unit harness terminals ⑤ and ③.
Battery voltage should exist.

N.G. → CHECK A.S.C.D. CANCEL SWITCH, A.S.C.D. CLUTCH SWITCH (M/T models) AND INHIBITOR SWITCH (A/T models).
Refer to "Electrical Components Inspection".
CHECK INHIBITOR RELAY (A/T models).

O.K.

D

CHECK SET/COAST SWITCH CIRCUIT FOR A.S.C.D. CONTROL UNIT.
1. Turn and keep on SET/COAST switch of A.S.C.D. combination (steering) switch.
2. Check voltage between control unit harness terminals ② and ③.
Battery voltage should exist.

N.G. → Does horn work?

No → Check fuse and horn relay.

Yes → CHECK A.S.C.D. COMBINATION (STEERING) SWITCH.
Refer to "Electrical Components Inspection".

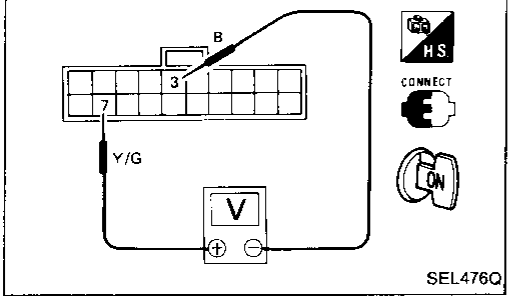
O.K.

Ⓐ
(Next page)

Trouble Diagnoses (Cont'd)

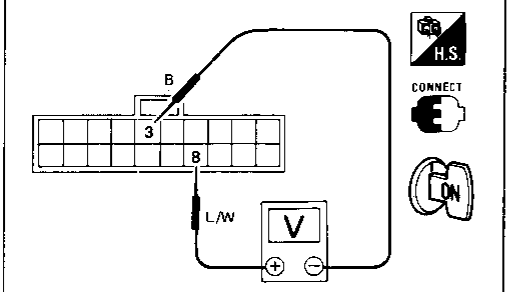
E

A.S.C.D. control unit connector E116

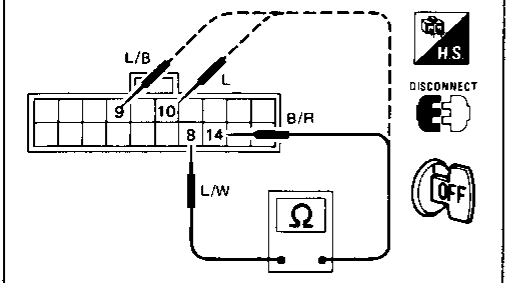


F

A.S.C.D. control unit connector E116



A.S.C.D. control unit connector E116



Ⓐ

E

CHECK SPEED SENSOR CIRCUIT.
1. Apply wheel chocks and jack up rear of vehicle.
2. Connect voltmeter between control unit harness terminals ⑦ and ③.
3. Slowly turn rear wheel.
4. Check deflection of voltmeter pointer.

N.G. → CHECK SPEED SENSOR. Refer to "Electrical Components Inspection".

O.K. ↓

CHECK A.S.C.D. ACTUATOR/A.S.C.D. PUMP. Refer to "Electrical Components Inspection".

N.G. → Replace A.S.C.D. actuator assembly.

O.K. ↓

F

CHECK A.S.C.D. ACTUATOR/A.S.C.D. PUMP CIRCUIT.
1. Check voltage between control unit harness terminals ⑧ and ③. **Voltage is 0V.**
2. Disconnect A.S.C.D. control unit connector.
3. Measure resistance between control unit harness terminals ⑧ and ⑨, ⑩, ⑭.

N.G. → Repair short or open circuit in A.S.C.D. actuator assembly.

Terminals		Resistance [Ω]
⑧	⑨	Approx. 8 - 45
	⑩	Approx. 65
	⑭	Approx. 65

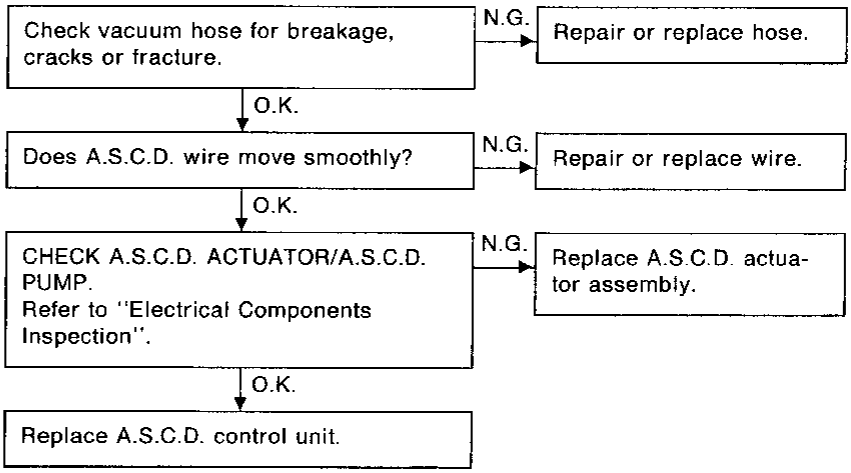
O.K. ↓

Replace A.S.C.D. control unit.

Trouble Diagnoses (Cont'd)

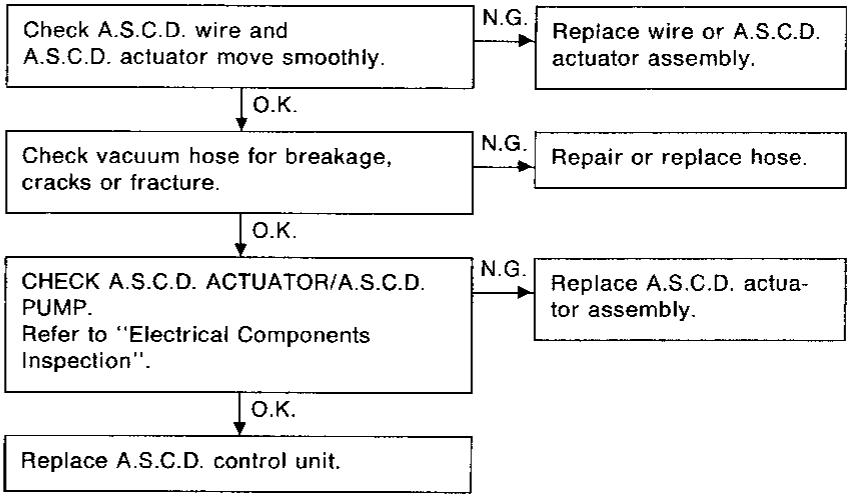
DIAGNOSTIC PROCEDURE 2

SYMPTOM: Engine hunts.



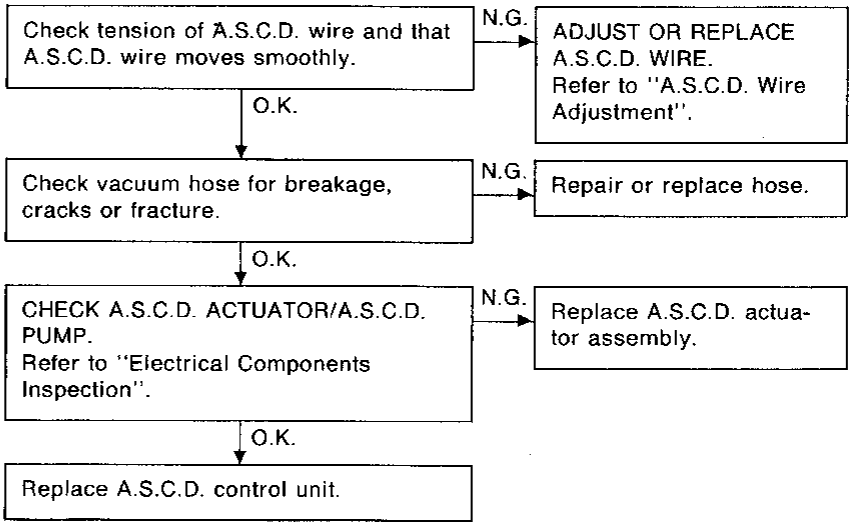
DIAGNOSTIC PROCEDURE 3

SYMPTOM: Large difference between set vehicle speed and actual speed.



DIAGNOSTIC PROCEDURE 4

SYMPTOM: Deceleration is greatest immediately after A.S.C.D. has been set.

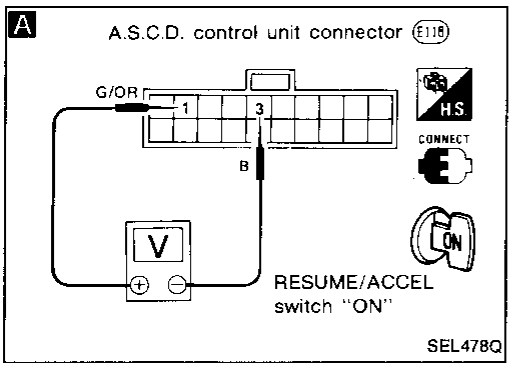


Trouble Diagnoses (Cont'd)

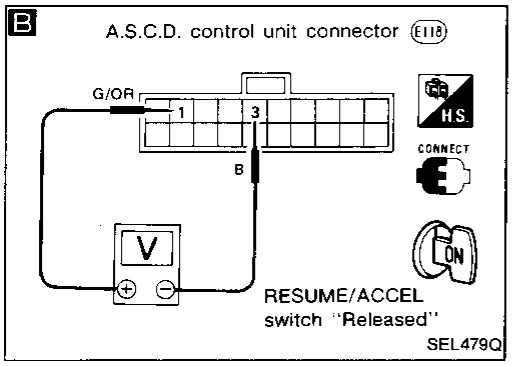
DIAGNOSTIC PROCEDURE 5

SYMPTOM: ACCEL switch will not operate.

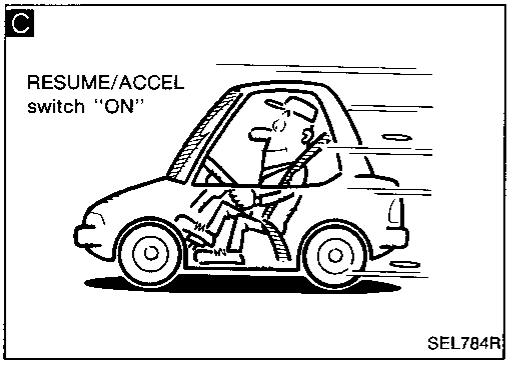
A



B



C



Check constant-speed function for operating using SET/COAST switch.
- N.G. → Go to "DIAGNOSTIC PROCEDURE 1".
- O.K. ↓

A

Check voltage between control unit harness terminals ① and ③ after turning on and holding RESUME/ACCEL switch.
Battery voltage should exist.
- N.G. → CHECK A.S.C.D. COMBINATION (STEERING) SWITCH. Refer to "Electrical Components Inspection".
- O.K. ↓

B

Check voltage between control unit harness terminals ① and ③ after releasing RESUME/ACCEL switch.
Voltage is 0V.
- N.G. → CHECK A.S.C.D. COMBINATION (STEERING) SWITCH. Refer to "Electrical Components Inspection".
- O.K. ↓

C

Does vehicle accelerate when RESUME/ACCEL switch is turned on?
- No → Replace control unit.
- Yes ↓

Does vehicle maintain the new (faster) speed when RESUME/ACCEL switch is released?
- No → Replace control unit.
- Yes ↓

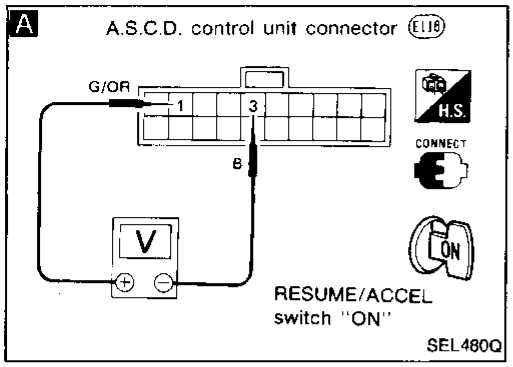
System is O.K.

Trouble Diagnoses (Cont'd)

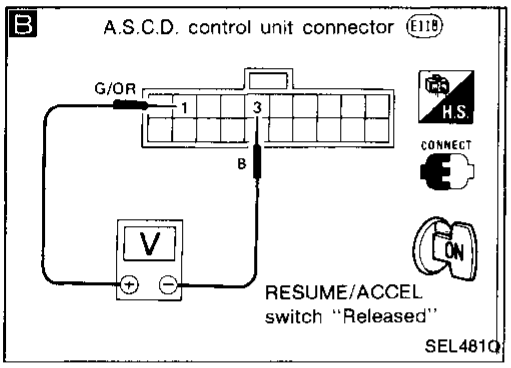
DIAGNOSTIC PROCEDURE 6

SYMPTOM: RESUME switch will not operate.

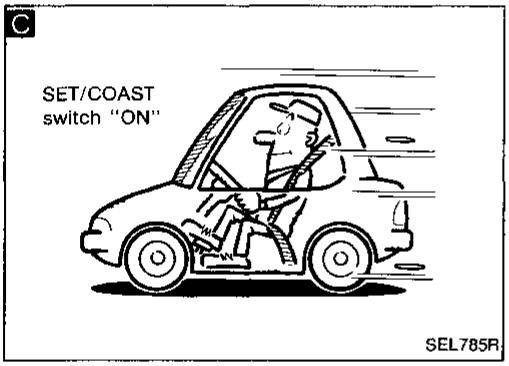
A



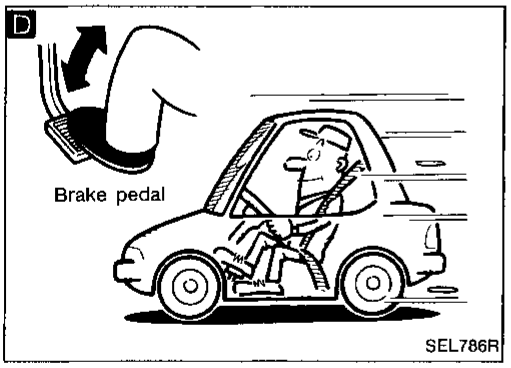
B



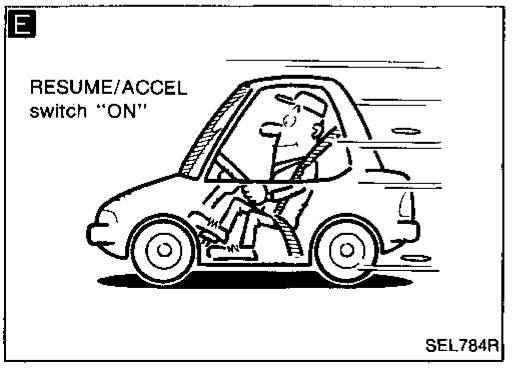
C



D



E



Check constant-speed function for operation using SET/COAST switch.
N.G. → Go to "DIAGNOSTIC PROCEDURE 1".
O.K.

A

Check voltage between control unit harness terminals ① and ③ after turning on and holding RESUME/ACCEL switch.
Battery voltage should exist.
N.G.
O.K.

B

Check voltage between control unit harness terminals ① and ③ after releasing RESUME/ACCEL switch.
Voltage is 0V.
N.G. → CHECK A.S.C.D. COMBINATION (STEERING) SWITCH. Refer to "Electrical Components Inspection".
O.K.

C

Set vehicle speed at 80 km/h (50 MPH) by turning on SET/COAST switch.
O.K.

D

While cruising at set speed, depress and release brake pedal.
O.K.

Does speed control disengage and "CRUISE" lamp turn off?
No → CHECK STOP LAMP SWITCH, A.S.C.D. CANCEL SWITCH AND A.S.C.D. CLUTCH SWITCH (M/T models). Refer to "Electrical Components Inspection".
Yes

E

Above 48 km/h (30 MPH), press and release "RESUME/ACCEL" switch.
O.K.

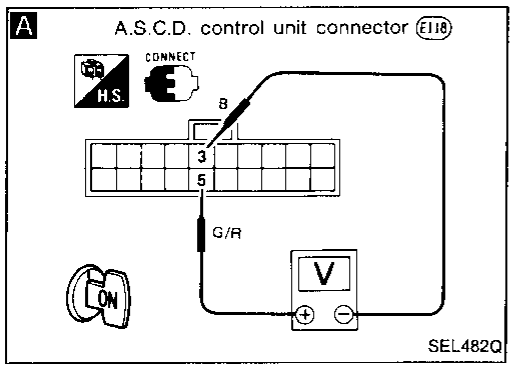
Does vehicle return to previously set speed [80 km/h (50 MPH)]?
No → Replace control unit.
Yes

System is O.K.

Trouble Diagnoses (Cont'd)

DIAGNOSTIC PROCEDURE 7

SYMPTOM: Set speed cannot be cancelled.



A

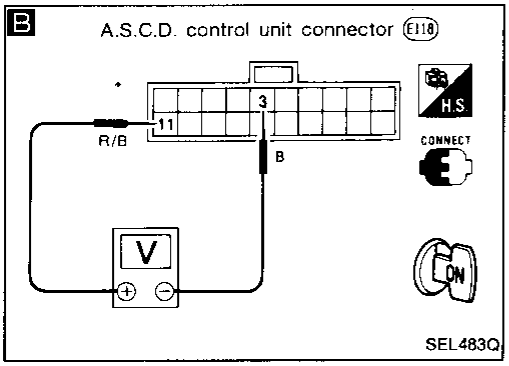
CHECK A.S.C.D. CANCEL, CLUTCH, INHIBITOR SWITCH CIRCUIT.

1. Turn A.S.C.D. main switch on.
2. Check voltage between control unit harness terminals ⑤ and ③.

Conditions			Voltage [V]
M/T	A.S.C.D. cancel switch	Depressed	0
		Released	Approx. 12
	A.S.C.D. clutch switch	Depressed	0
		Released	Approx. 12
A/T	A/T shift lever position is at any position except N or P.		Approx. 12
	A/T shift lever position is at N or P.		0

N.G. → CHECK A.S.C.D. CANCEL, CLUTCH, and INHIBITOR SWITCH. Refer to "Electrical Components Inspection".

O.K. ↓



B

CHECK STOP LAMP SWITCH CIRCUIT.
Check voltage between control unit harness terminals ⑪ and ③.

Condition		Voltage [V]
Stop lamp switch	Depressed	Approx. 12
	Released	0

N.G. → CHECK STOP LAMP SWITCH. Refer to "Electrical Components Inspection."

O.K. ↓

Check A.S.C.D. wire moves smoothly.

N.G. → Replace A.S.C.D. wire.

O.K. ↓

CHECK A.S.C.D. ACTUATOR/A.S.C.D. PUMP.
Refer to "Electrical Components Inspection".

N.G. → Replace A.S.C.D. actuator assembly.

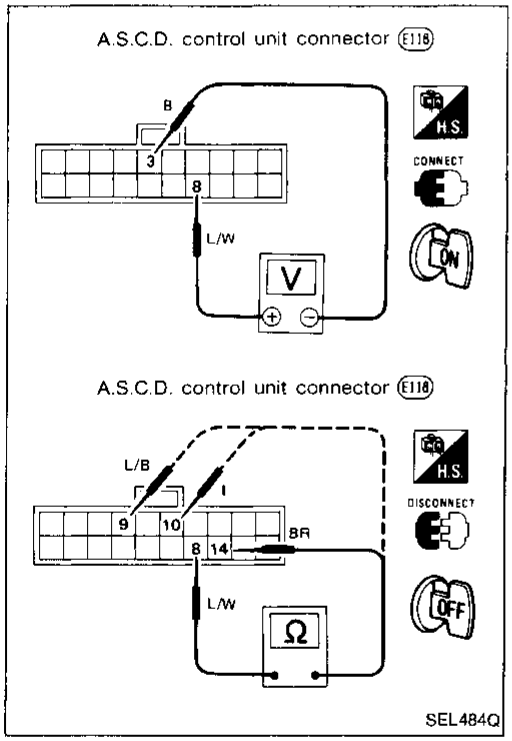
O.K. ↓

Replace A.S.C.D. control unit.

Trouble Diagnoses (Cont'd)

DIAGNOSTIC PROCEDURE 8

SYMPTOM: "CRUISE" indicator lamp blinks.



Does indicator lamp blink when A.S.C.D. main switch is turned to "ON" again?

Yes → Does indicator lamp blink when brake pedal is depressed slowly?

No → CHECK A.S.C.D. ACTUATOR/A.S.C.D. PUMP. Refer to "Electrical Components Inspection".

- N.G. → Replace A.S.C.D. actuator assembly.
- O.K. → CHECK A.S.C.D. ACTUATOR/A.S.C.D. PUMP CIRCUIT.
  1. Check voltage between control unit harness terminals ⑧ and ③. **Voltage is 0V.**
  2. Disconnect A.S.C.D. control unit connector.
  3. Measure resistance between control unit harness terminals ⑧ and ⑨, ⑩, ⑭.

Terminals		Resistance [Ω]
⑧	⑨	Approx. 8 - 45
	⑩	Approx. 65
	⑭	Approx. 65

- N.G. → Repair short or open circuit in A.S.C.D. actuator/ A.S.C.D. pump harness.
- O.K. → Replace A.S.C.D. control unit.

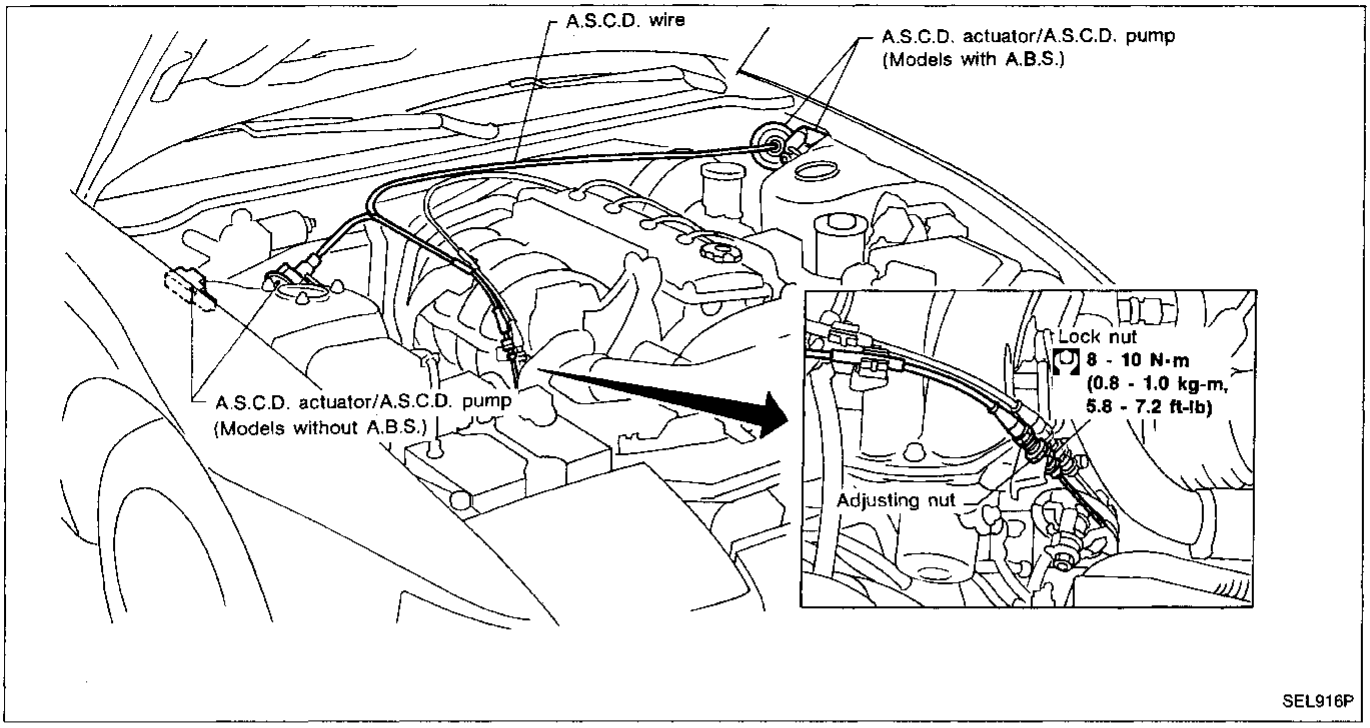
No → Does indicator lamp blink when brake pedal is depressed slowly?

Yes → Adjust installation of stop lamp switch and A.S.C.D. cancel switch. Refer to BR section.

No → CHECK A.S.C.D. COMBINATION (STEERING) SWITCH. Refer to "Electrical Components Inspection".

- N.G. → Replace A.S.C.D. combination (steering) switch.
- O.K. → Replace control unit.

A.S.C.D. Wire Adjustment



CAUTION:

- **Be careful not to twist A.S.C.D. wire when removing it.**
- **Do not tense A.S.C.D. wire excessively during adjustment.**

After confirming that accelerator wire is properly adjusted, adjust the tension of A.S.C.D. wire in the following manner.

(1) After adjusting the length of the accelerator wire, turn a securing nut by 1/2 to 1 turn from throttle open starting position to the wire loosening direction to fix. (Must be securing carried out to prevent response delay of operation of the A.S.C.D.)

(2) Securely tighten lock nut to hold adjusting nut in place.

- For A.S.C.D. cancel switch and clutch switch adjustment, refer to BR and CL sections.

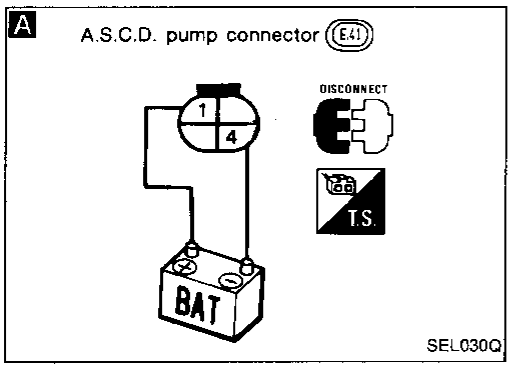
A.S.C.D. Wire Adjustment (Cont'd)

ELECTRICAL COMPONENTS INSPECTION

A.S.C.D. actuator/A.S.C.D. pump

1. Disconnect A.S.C.D. actuator/A.S.C.D. pump connector.
2. Check A.S.C.D. actuator/A.S.C.D. pump operations as shown.

A

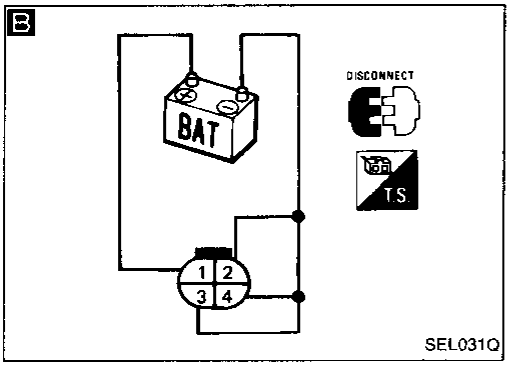


Check to see if motor starts when 12V D.C. is applied across ① and ④.

N.G. → Replace A.S.C.D. actuator assembly.

O.K.

B

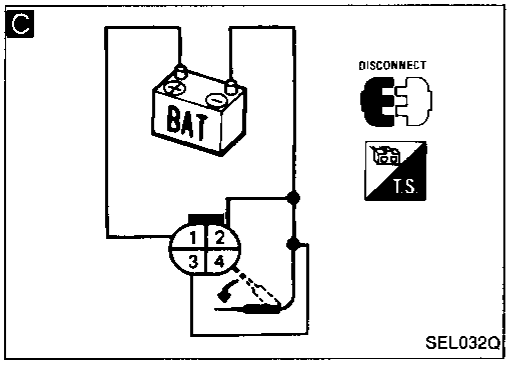


Check to see if A.S.C.D. wire is pulled when 12V D.C. is applied across ①, ②, ③ and ④.

N.G.

O.K. (Wire is pulled.)

C

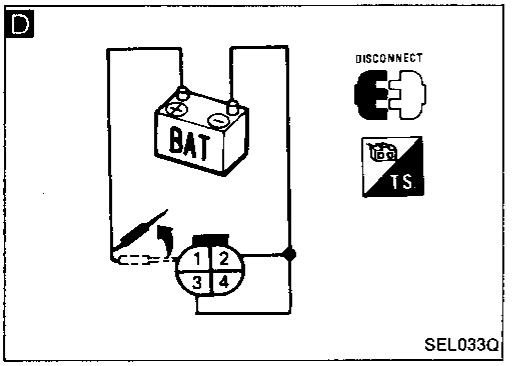


Check to see if A.S.C.D. wire returns to original position 50 to 60 seconds after disconnecting lead from ④.

N.G. → Replace A.S.C.D. actuator assembly.

O.K. (Wire does not return.)

D



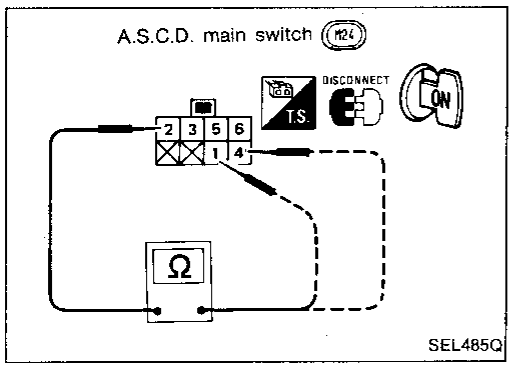
Disconnect lead from ① to see if A.S.C.D. wire returns immediately.

N.G. → Replace A.S.C.D. actuator assembly.

O.K. (Wire returns.)

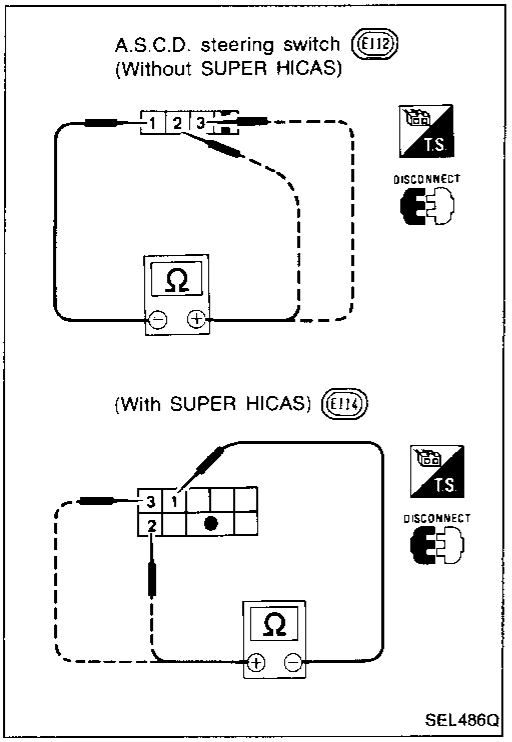
A.S.C.D. actuator/A.S.C.D. pump are O.K.

A.S.C.D. Wire Adjustment (Cont'd)



A.S.C.D. main switch

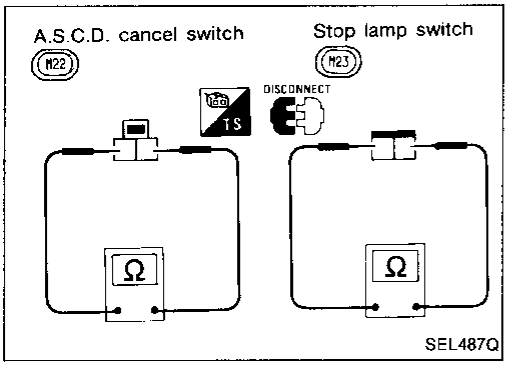
Check continuity between terminals by pushing switch to each position.



A.S.C.D. steering switch

Check continuity between terminals by pushing each button.

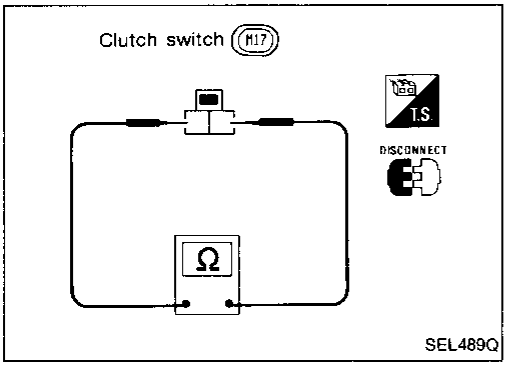
Button \ Terminal	1	2	3
SET/COAST	○	○	
RESUME/ACCEL	○		○
CANCEL	○	▶ ○	
	○	▶	○



A.S.C.D. cancel switch and stop lamp switch

Condition	Continuity	
	A.S.C.D. cancel switch	Stop lamp switch
When brake pedal is depressed	No	Yes
When brake pedal is released	Yes	No

Check each switch after adjusting brake pedal — refer to BR section.

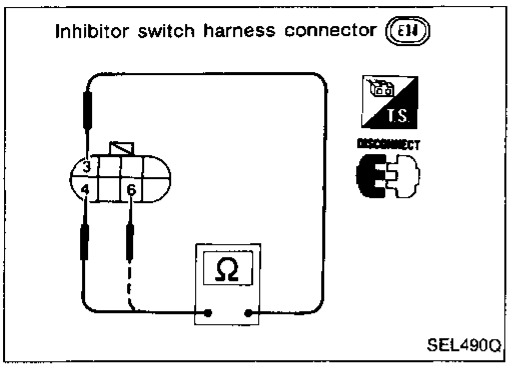


Clutch switch (For M/T models)

Condition	Continuity
When clutch pedal is depressed	No
When clutch pedal is released	Yes

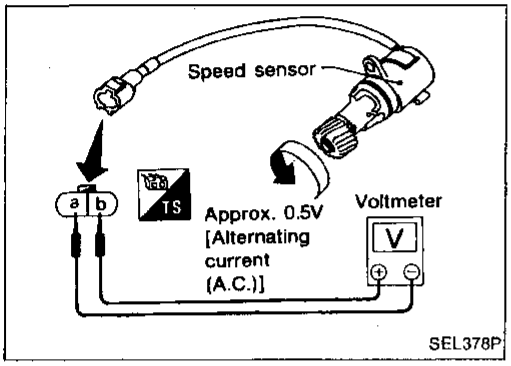
Check switch after adjusting clutch pedal — refer to CL section.

A.S.C.D. Wire Adjustment (Cont'd)



Inhibitor switch (For A/T models)

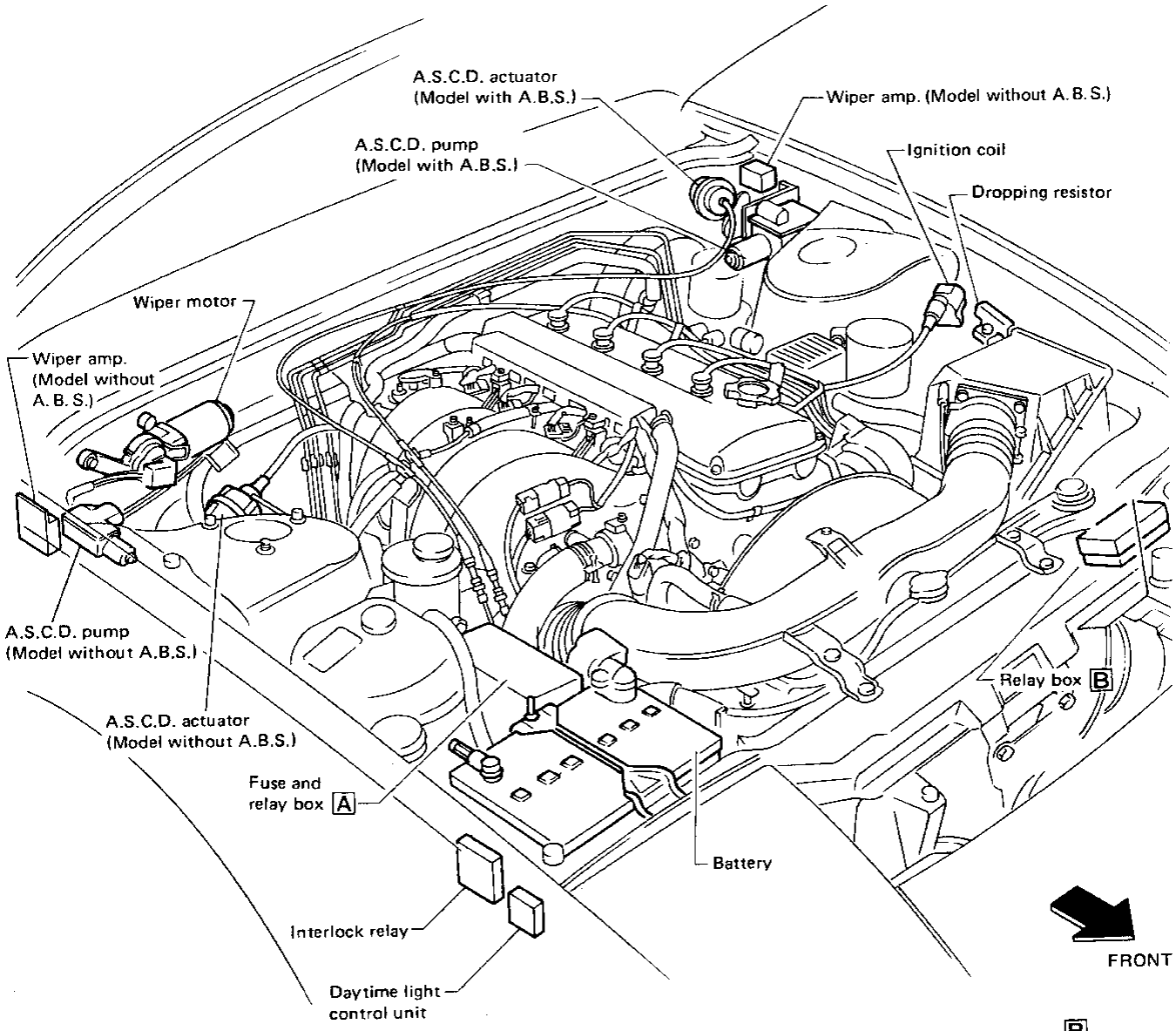
Shift lever position \ Terminal	3	4	6
"P"	○	○	
"N"	○		○
Except "N" or "P"			

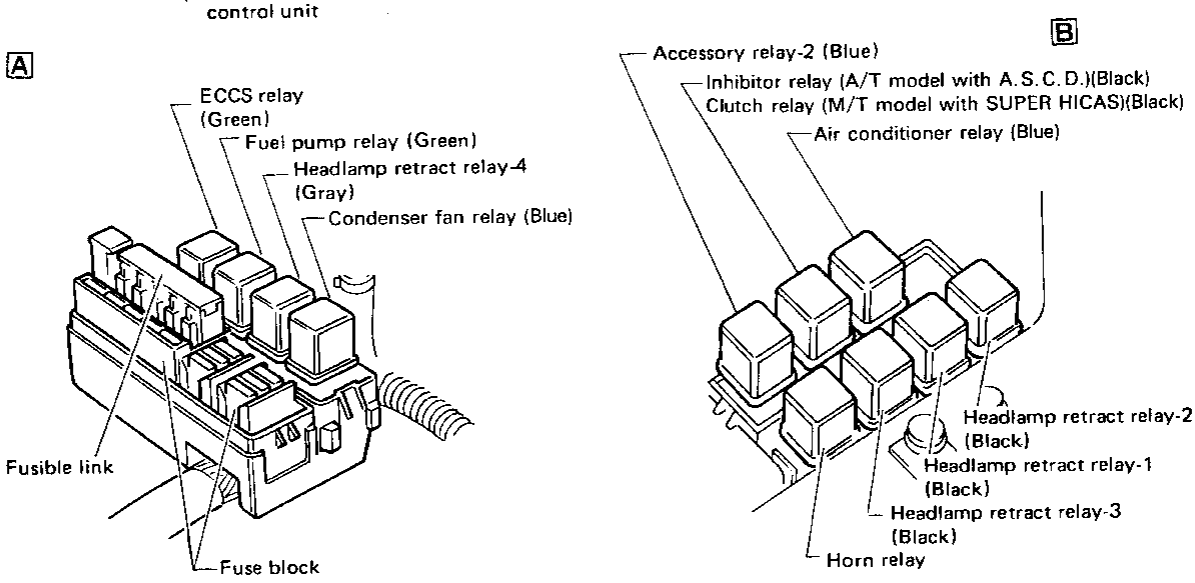


Speed sensor

1. Remove speed sensor from transaxle.
2. Turn speedometer pinion quickly and measure voltage across ⓐ and ⓑ.

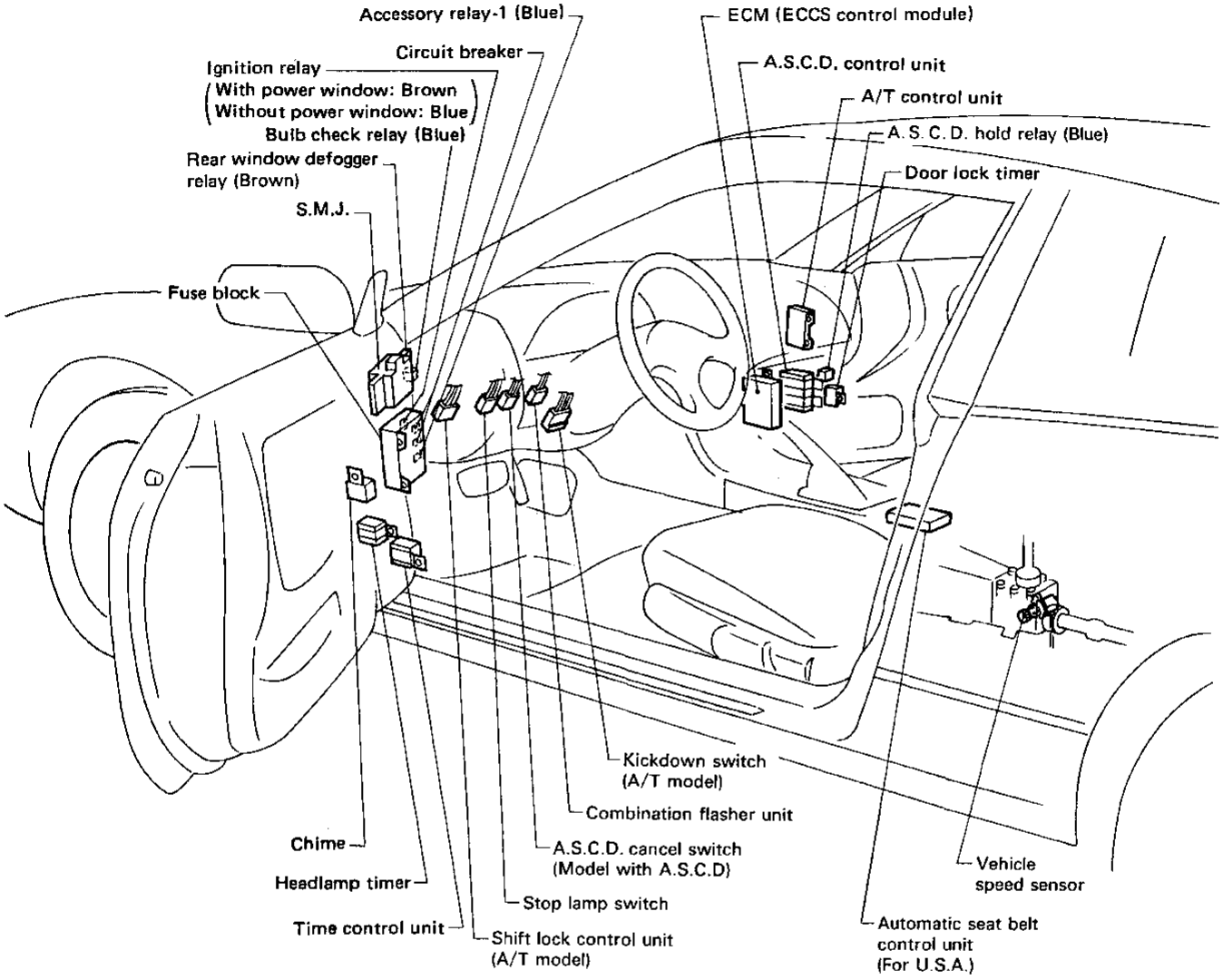
Engine Compartment





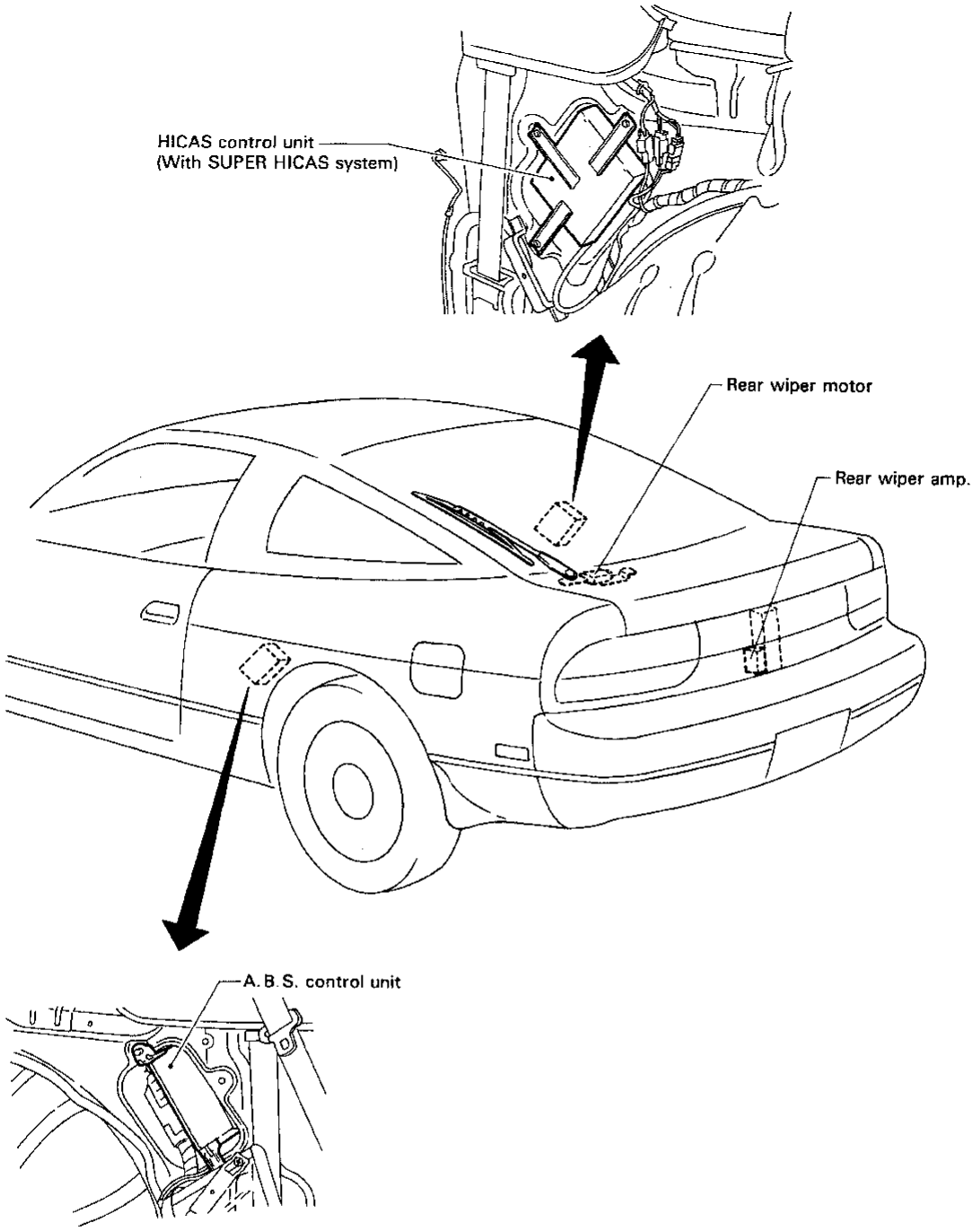
MEL728B

Passenger Compartment



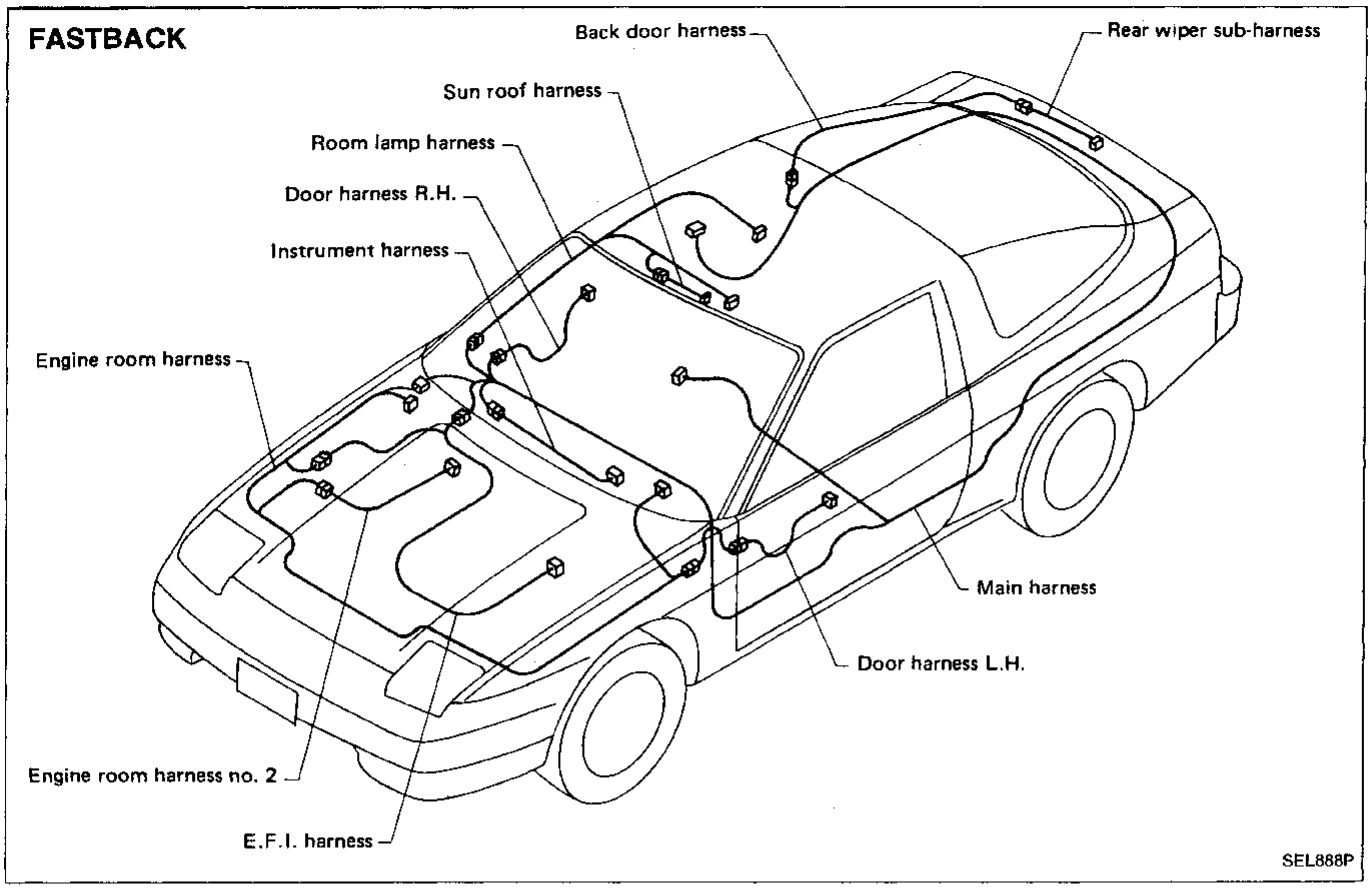
MEL729B

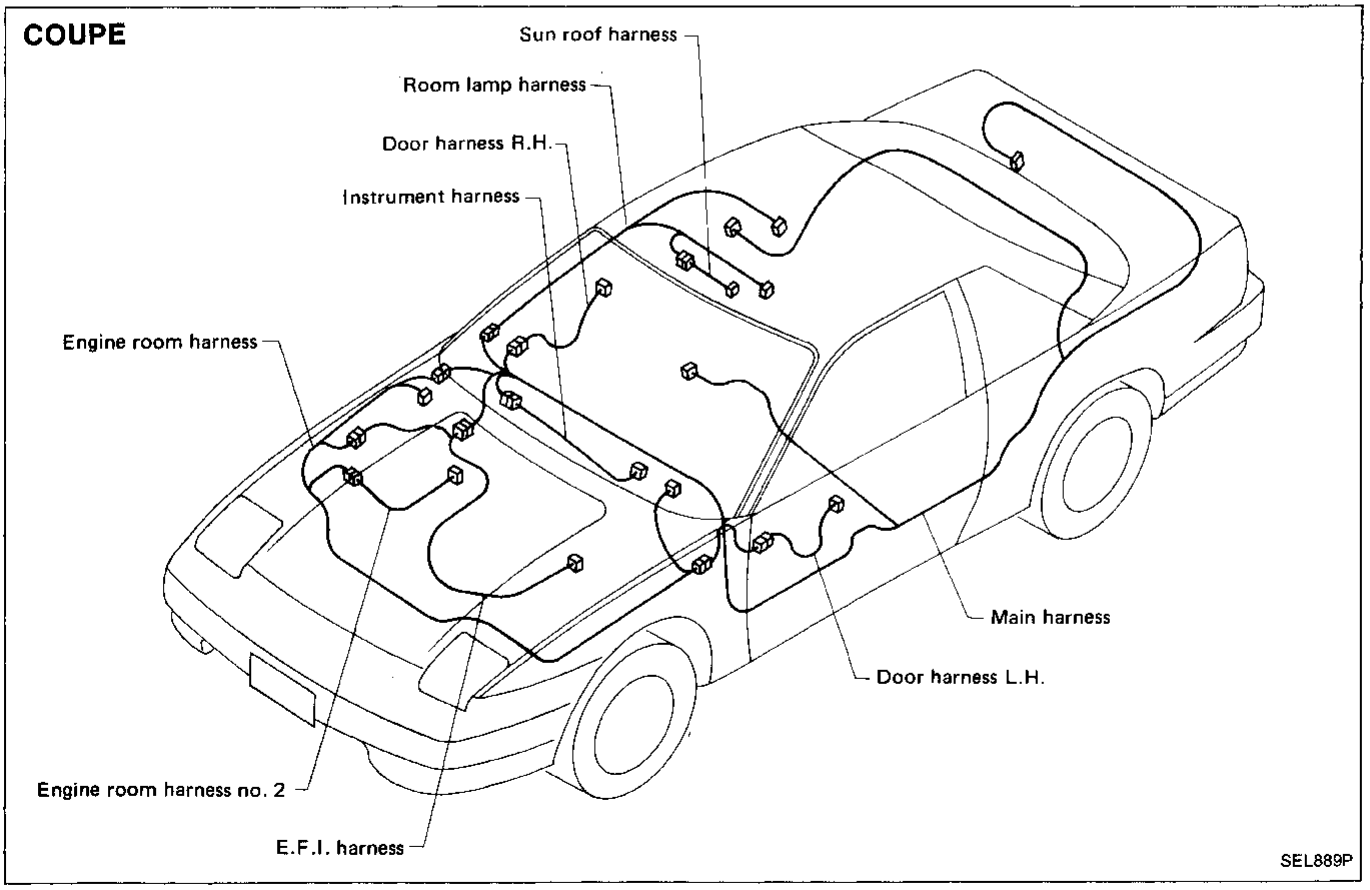
Passenger Compartment (Cont'd)



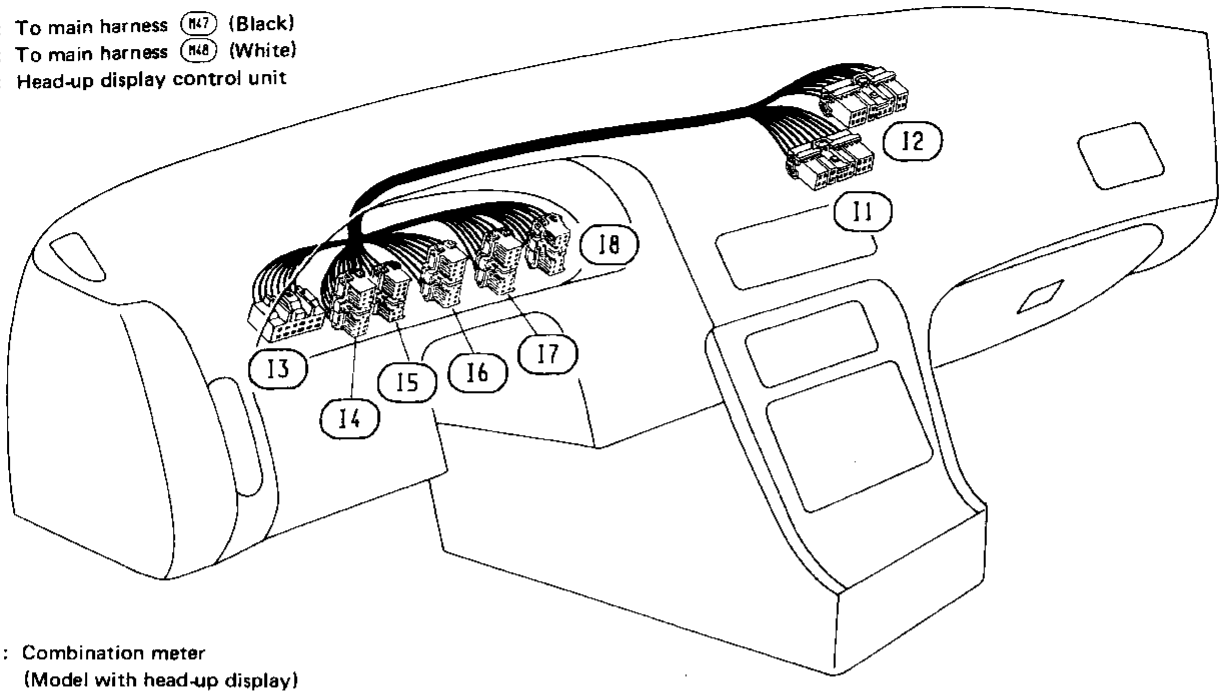
SEL905P

Outline

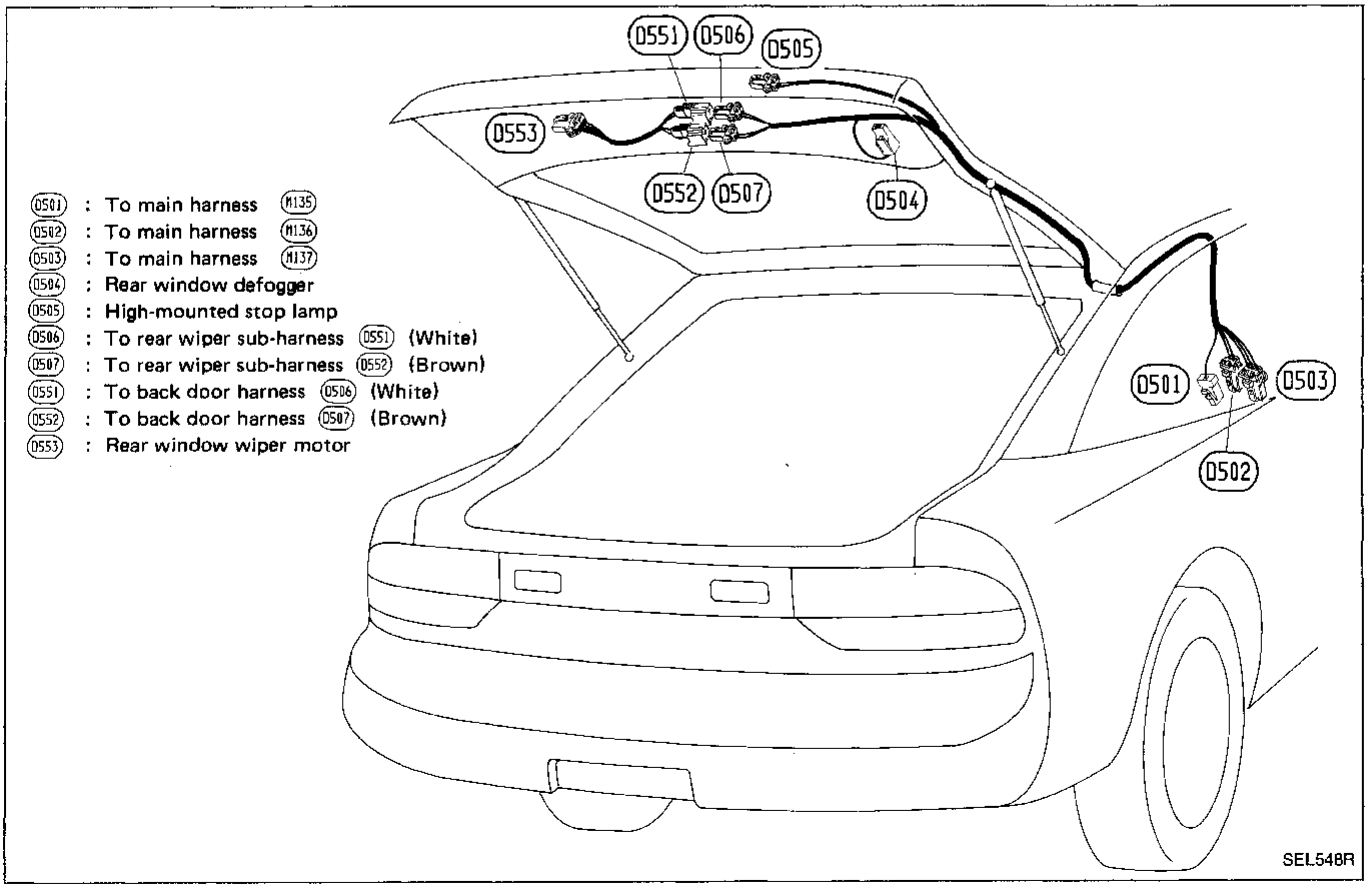

FASTBACK
Back door harness
Rear wiper sub-harness
Sun roof harness
Room lamp harness
Door harness R.H.
Instrument harness
Engine room harness
Main harness
Door harness L.H.
Engine room harness no. 2
E.F.I. harness
SEL888P


COUPE
Sun roof harness
Room lamp harness
Door harness R.H.
Instrument harness
Engine room harness
Main harness
Door harness L.H.
Engine room harness no. 2
E.F.I. harness
SEL889P

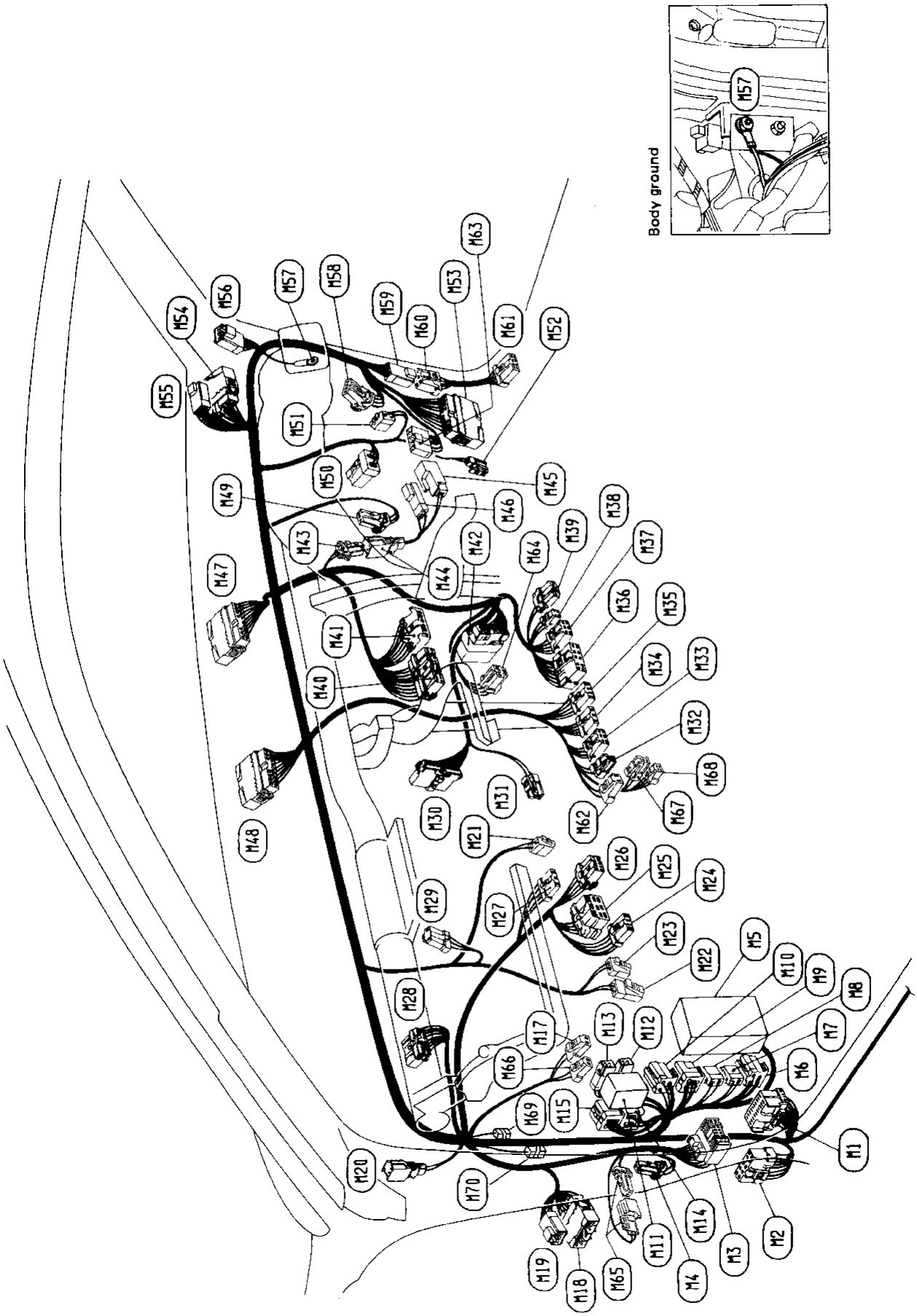
Instrument Harness



Back Door Harness

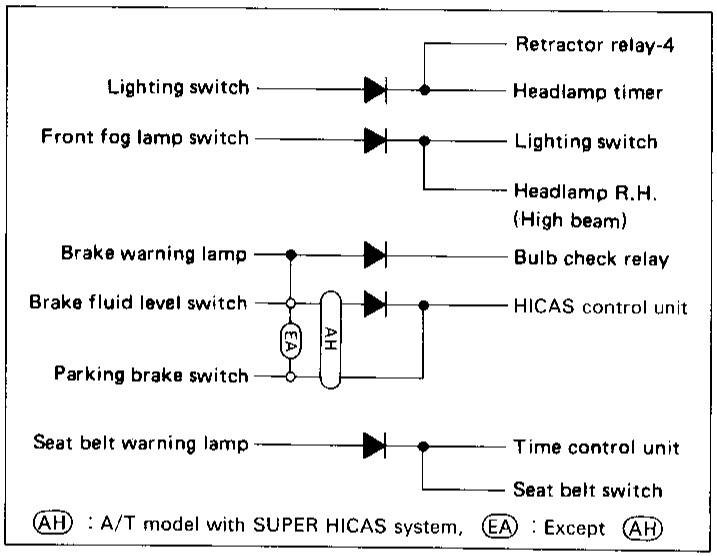


Main Harness



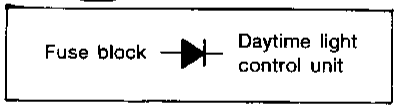
(M1) : Time control unit
(M2) : Headlamp timer
(M3) : Data link connector for CONSULT
(M4) : Warning chime
(M5) : Fuse block
(M6) : Accessory relay-1
(M7) : Circuit breaker (Model with power window system)
(M8) : Circuit breaker (For U.S.A.)
(M9) : Ignition relay (Model with power window system)
(M10) : Ignition relay (Model without power window system)
(M11) : To engine room harness (E101) (S.M.J.)
(M12) : To engine room harness (E102) (Blue)
(M13) : To engine room harness (E103) (Black)
(M14) : Bulb check relay
(M15) : Rear window defogger relay
(M17) : A.S.C.D. clutch switch (M/T model with A.S.C.D.)
(M18) : To door harness L.H. (D1)
(M19) : To door harness L.H. (D2)
(M20) : Driver side front limit switch (For U.S.A.)
(M21) : Kickdown switch (A/T model)
(M22) : A.S.C.D. cancel switch (Model with A.S.C.D.)
(M23) : Stop lamp switch
(M24) : A.S.C.D. main switch (Model with A.S.C.D.)
(M25) : Headlamp retractor switch
(M26) : Illumination control switch
(M27) : Not used
(M28) : Shift lock control unit (A/T model)
(M29) : Combination flasher unit
(M30) : Mode door motor
(M31) : Foot lamp L.H.
(M32) : O.D. off indicator lamp (A/T model without SUPER HICAS system)
(M33) : Rear wiper and washer switch
(M34) : Rear window defogger switch
(M35) : Hazard switch
(M36) : Radio
(M37) : Radio
(M38) : Cassette deck
(M39) : Cassette deck
(M40) : Push control unit
(M41) : Fan switch
(M42) : Diode
(M43) : To sub-harness (M44)
(M44) : To main harness (M43)
(M45) : Glove box lamp
(M46) : Glove box lamp switch
(M47) : To instrument harness (11) (Black)
(M48) : To instrument harness (12) (White)
(M49) : Thermo control amplifier
(M50) : Heater resistor
(M51) : Blower motor
(M52) : Foot lamp R.H.
(M53) : To E.F.I. harness (F1)
(M54) : To door harness R.H. (D101)
(M55) : To door harness R.H. (D102)
(M56) : To room lamp harness (R1)
(M57) : Body ground
(M58) : Intake door motor
(M59) : To sub-harness (M60)
(M60) : To main harness (M59)
(M61) : Door lock timer
(M62) : Washer warning lamp (Model with A.S.C.D.)
(M63) : To engine room harness (E119)
(M64) : Blower relay
(M66) : Joint connector (Model with SUPER HICAS system)
(M66) : HICAS clutch switch (M/T model with SUPER HICAS system)
(M67) : HICAS warning lamp (M/T model with SUPER HICAS system)
(M68) : O.D. off indicator and HICAS warning lapp (A/T model with SUPER HICAS system)
(M69) : Diode (For Canada)
(M70) : Diode (For Canada)

Diode (M42)

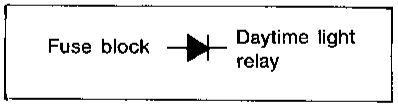


(AH) : A/T model with SUPER HICAS system, (EA) : Except (AH)

Diode (M69)

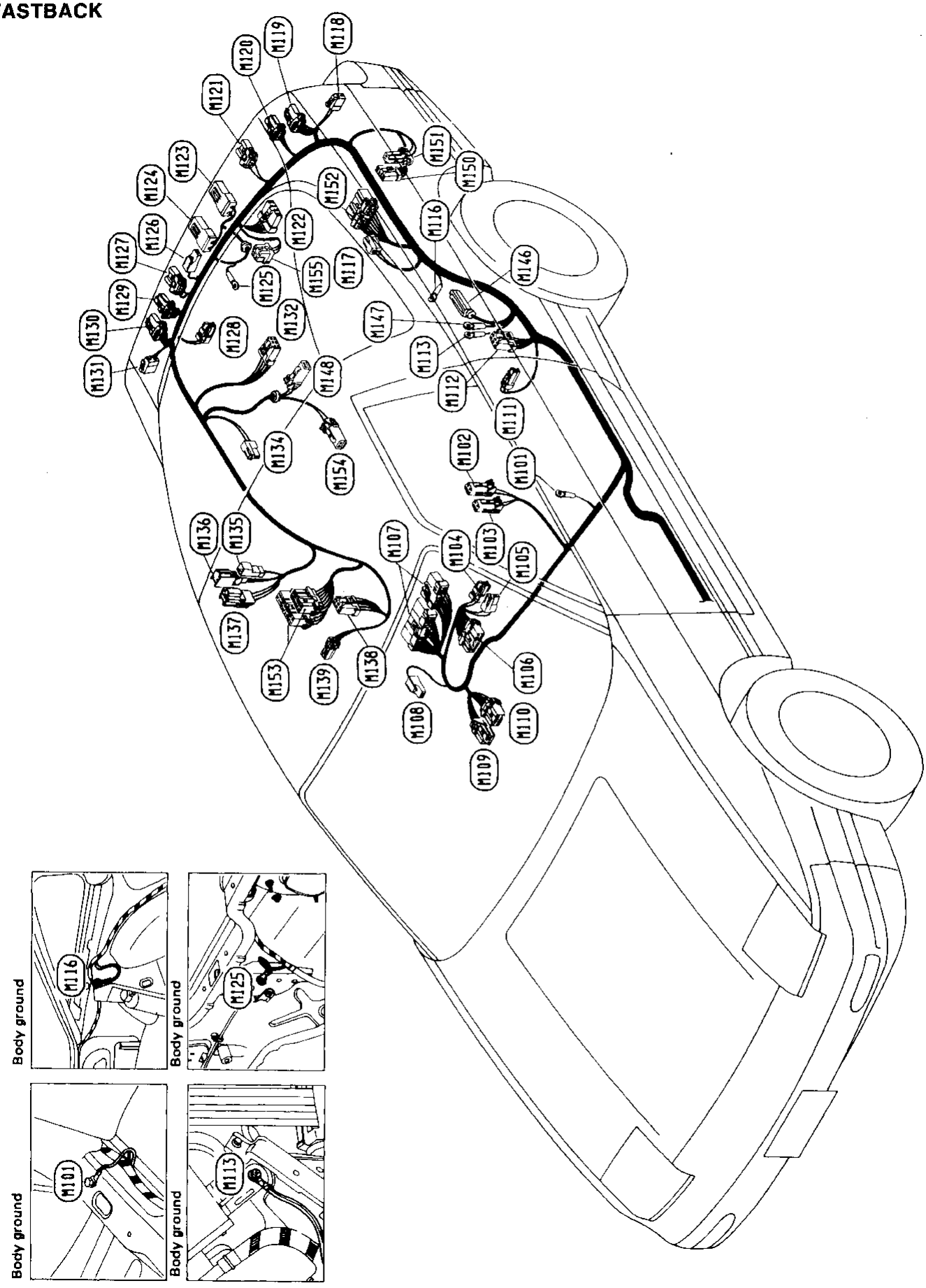


Diode (M70)



Main Harness (Cont'd)

FASTBACK



Main Harness (Cont'd)

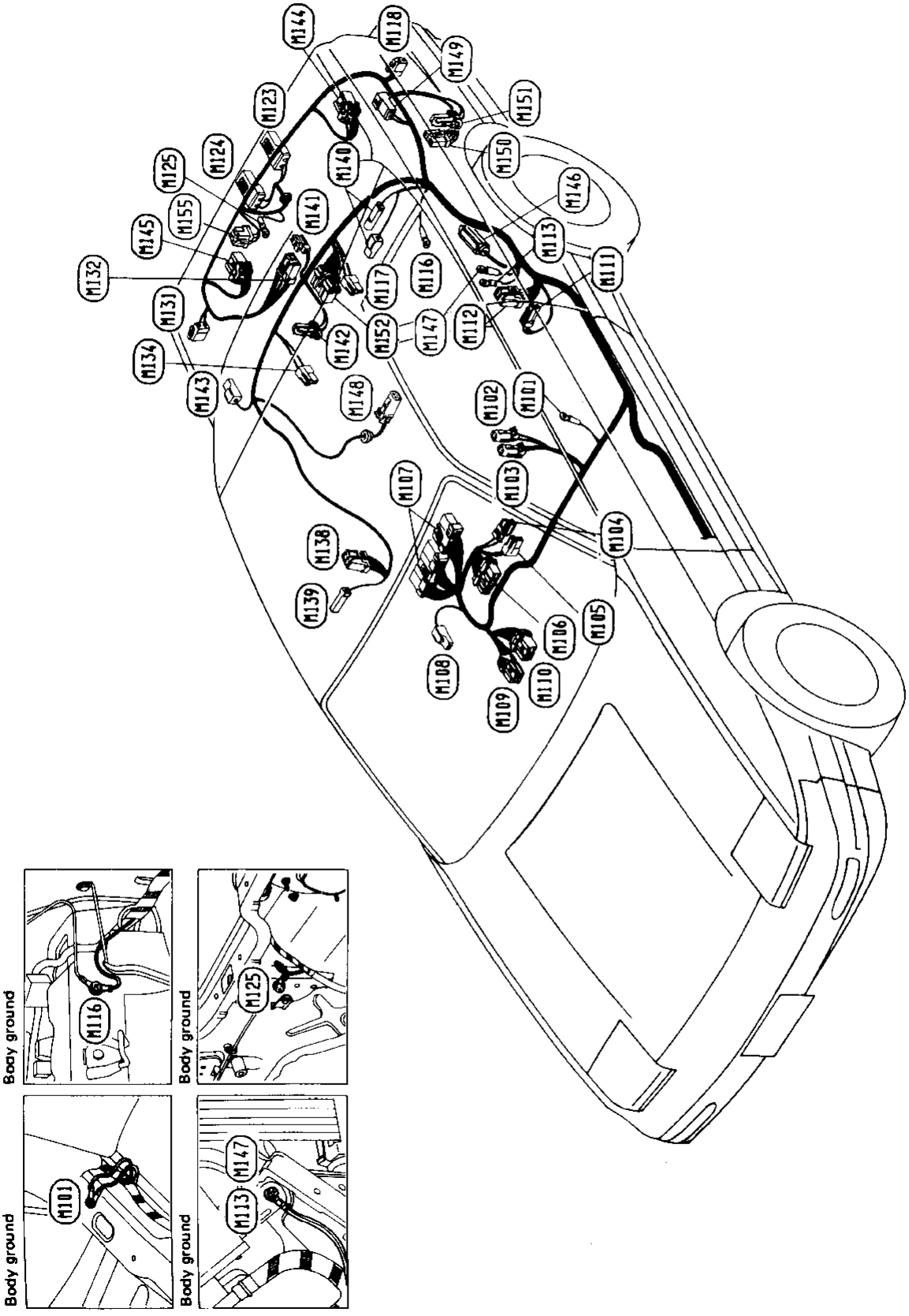
(M101) : Body ground
(M102) : Lap belt buckle switch (For U.S.A.)
(M103) : Seat belt switch (For Canada)
(M104) : Ash tray illumination
(M105) : Cigarette lighter
(M106) : Door mirror control switch
(M107) : Automatic seat belt control unit (For U.S.A.)
(M108) : Parking brake switch
(M109) : A/T device (A/T illumination and O.D. control switch) (A/T model)
(M110) : Shift lock solenoid (A/T model)
(M111) : Door switch L.H.
(M112) : Automatic seat belt motor assembly L.H. (For U.S.A.)
(M113) : Body ground (For U.S.A.)
(M116) : Body ground
(M117) : Rear speaker L.H.
(M118) : Rear side marker lamp L.H.
(M119) : Rear combination lamp L.H.

(M120) : Rear combination lamp L.H.
(M121) : Back-up lamp L.H.
(M122) : Rear wiper amplifier
(M123) : License lamp L.H.
(M124) : License lamp R.H.
(M125) : Body ground
(M126) : Luggage room lamp switch
(M127) : Back-up lamp R.H.
(M128) : Luggage room lamp
(M129) : Rear combination lamp R.H.
(M130) : Rear combination lamp R.H.
(M131) : Rear side marker lamp R.H.
(M132) : Fuel tank gauge unit
(M134) : Rear speaker R.H.
(M135) : To back door harness (D581)
(M136) : To back door harness (D582)
(M137) : To back door harness (D583)
(M138) : Automatic seat belt motor assembly R.H. (For U.S.A.)
(M139) : Door switch R.H.
(M146) : A.B.S. control unit (For Anti-lock Braking System)
(M147) : Body ground (For Anti-lock Braking System)
(M148) : Rear sensor (For Anti-lock Braking System)
(M150) : Auto antenna timer
(M151) : Auto antenna motor
(M152) : Rear speaker amplifier (Active speaker type)
(M153) : HICAS control unit (With SUPER HICAS system)
(M154) : HICAS fail safe solenoid valve (With SUPER HICAS system)
(M155) : Daytime light relay (For Canada)

MEL720B

Main Harness (Cont'd)

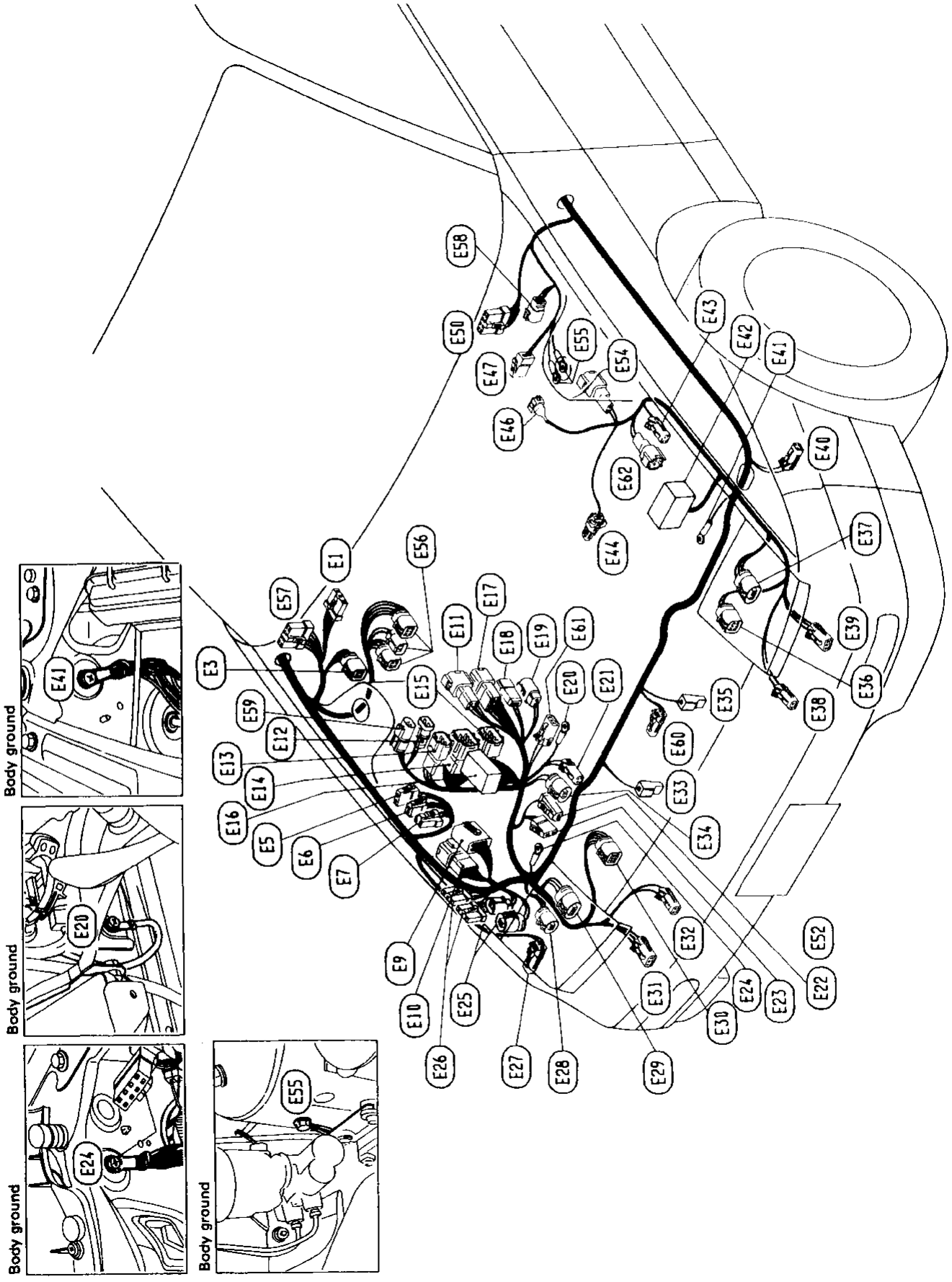
COUPE



(M101) : Body ground
(M102) : Lap belt buckle switch (For U.S.A.)
(M103) : Seat belt switch (For Canada)
(M104) : Ash tray illumination
(M105) : Cigarette lighter
(M106) : Door mirror control switch
(M107) : Automatic seat belt control unit (For U.S.A.)
(M108) : Parking brake switch
(M109) : A/T device (A/T illumination and O.D. control switch) (A/T model)
(M110) : Shift lock solenoid (A/T model)
(M111) : Door switch L.H.
(M112) : Automatic seat belt motor assembly L.H. (For U.S.A)
(M113) : Body ground (For U.S.A.)
(M116) : Body ground
(M117) : Rear speaker L.H.
(M118) : Rear side marker lamp L.H.
(M123) : License lamp L.H.
(M124) : License lamp R.H.
(M125) : Body ground
(M131) : Rear side marker lamp R.H.
(M132) : Fuel tank gauge unit
(M134) : Rear speaker R.H.
(M138) : Automatic seat belt motor assembly R.H. (For U.S.A.)
(M139) : Door switch R.H.
(M140) : Trunk room lamp switch
(M141) : Trunk room lamp
(M142) : High-mounted stop lamp (Model without rear spoiler)
(M143) : Rear window defogger
(M144) : Rear combination lamp L.H.
(M145) : Rear combination lamp R.H.
(M146) : A.B.S. control unit (For Anti-lock Braking System)
(M147) : Body ground (For Anti-lock Braking System)
(M148) : Rear sensor (For Anti-lock Braking System)
(M149) : To high-mounted stop lamp sub-harness (Model with rear spoiler)
(M150) : Auto antenna timer
(M151) : Auto antenna motor
(M152) : Rear speaker amplifier (Active speaker type)
(M155) : Daytime light relay (For Canada)

MEL721B

Engine Room Harness

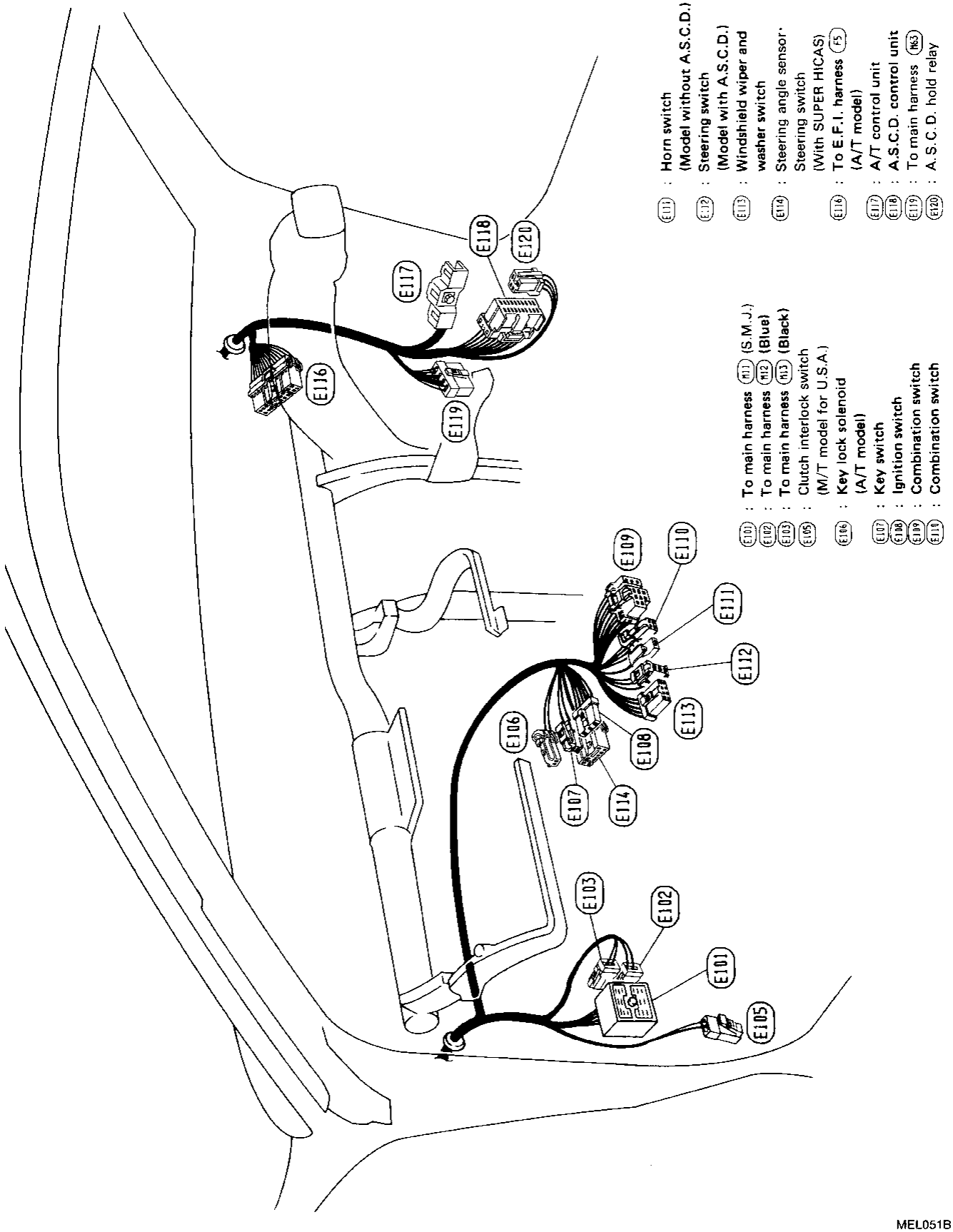


Engine Room Harness (Cont'd)

(E1) : Windshield wiper motor
(E3) : A.S.C.D. actuator (Model without Anti-lock Braking System)
(E5) : Rear washer motor
(E6) : Front washer motor
(E7) : Washer fluid level switch
(E9) : To E.F.I. harness (f8) (White)
(E10) : To E.F.I. harness (f9) (Brown)
(E11) : To engine room harness no. 2 (E201) (A/T model)
(E12) : Inhibitor switch (A/T model)
(E13) : Revolution sensor (A/T model)
(E14) : Inhibitor switch (A/T model) (Gray)
(E15) : To solenoid valve sub-harness (A/T model) (Brown)
(E16) : Relay box (Refer to page EL-97.)
(E17) : To engine room harness no. 2 (E202)
(E18) : To engine room harness no. 2 (E203)
(E19) : To engine room harness no. 2 (E204)
(E20) : Body ground
(E21) : Dual-pressure switch
(E22) : Battery
(E23) : Battery
(E24) : Body ground
(E25) : Interlock relay (M/T model for U.S.A.) U.S.A.)
(E26) : Daytime light control unit (For Canada)
(E27) : Front side marker lamp R.H.
(E28) : Not used
(E29) : Headlamp R.H.
(E30) : Headlamp motor R.H.
(E31) : Front combination lamp R.H.
(E32) : Daytime light R.H. (For Canada)
(E33) : Horn-low
(E34) : Condenser fan motor
(E35) : Horn-high
(E36) : Headlamp motor L.H.
(E37) : Headlamp L.H.
(E38) : Daytime light L.H. (For Canada)
(E39) : Front combination lamp L.H.
(E40) : Front side marker lamp L.H.
(E41) : Body ground
(E42) : Relay box (Refer to page EL-97.)
(E43) : Dropping resistor (A/T model.)
(E44) : Compressor
(E46) : PAIRC-solenoid valve
(E47) : Brake fluid level switch
(E50) : Windshield wiper amplifier (Model without Anti-lock Braking System)
(E54) : Front wheel sensor L.H. (For Anti-lock Braking System)
(E55) : Body ground
(E56) : Actuator (For Anti-lock Braking System)
(E57) : Windshield wiper amplifier (Model with Anti-lock Braking System)
(E58) : A.S.C.D. actuator (Model with Anti-lock Braking System)
(E59) : To engine room harness no. 2 (E206) (M/T model)
(E60) : Ambient switch
(E61) : HICAS solenoid valve (With SUPER HICAS system)
(E62) : HICAS oil level switch (With SUPER HICAS system)

MEL722B

Engine Room Harness (Cont'd)

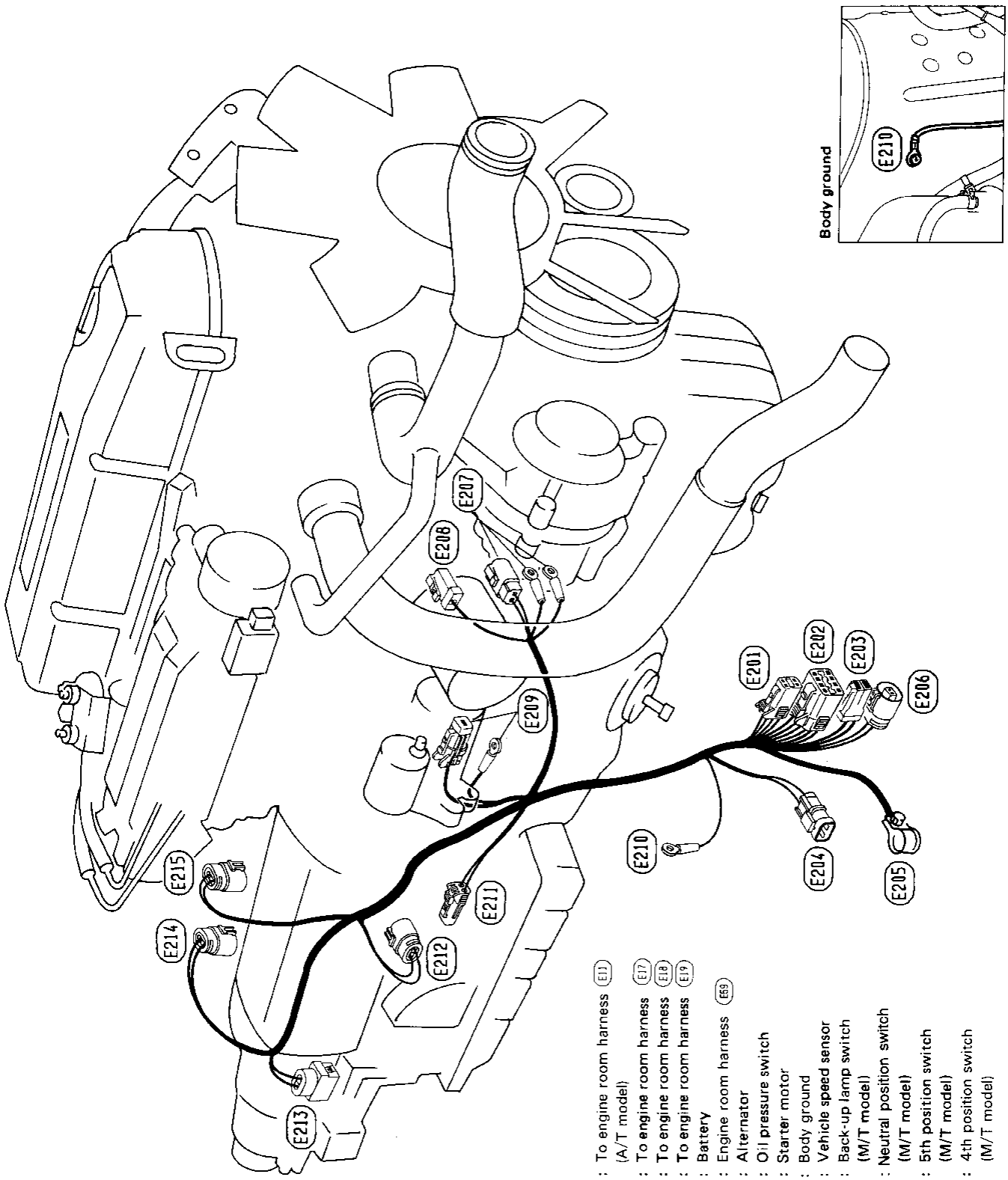


E111 : Horn switch (Model without A.S.C.D.)
E112 : Steering switch (Model with A.S.C.D.)
E113 : Windshield wiper and washer switch
E114 : Steering angle sensor· Steering switch (With SUPER HICAS)
E116 : To E.F.I. harness (F5) (A/T model)
E117 : A/T control unit
E118 : A.S.C.D. control unit
E119 : To main harness (M63)
E120 : A.S.C.D. hold relay

E101 : To main harness (M11) (S.M.J.)
E102 : To main harness (M12) (Blue)
E103 : To main harness (M13) (Black)
E105 : Clutch interlock switch (M/T model for U.S.A.)
E106 : Key lock solenoid (A/T model)
E107 : Key switch
E108 : Ignition switch
E109 : Combination switch
E110 : Combination switch

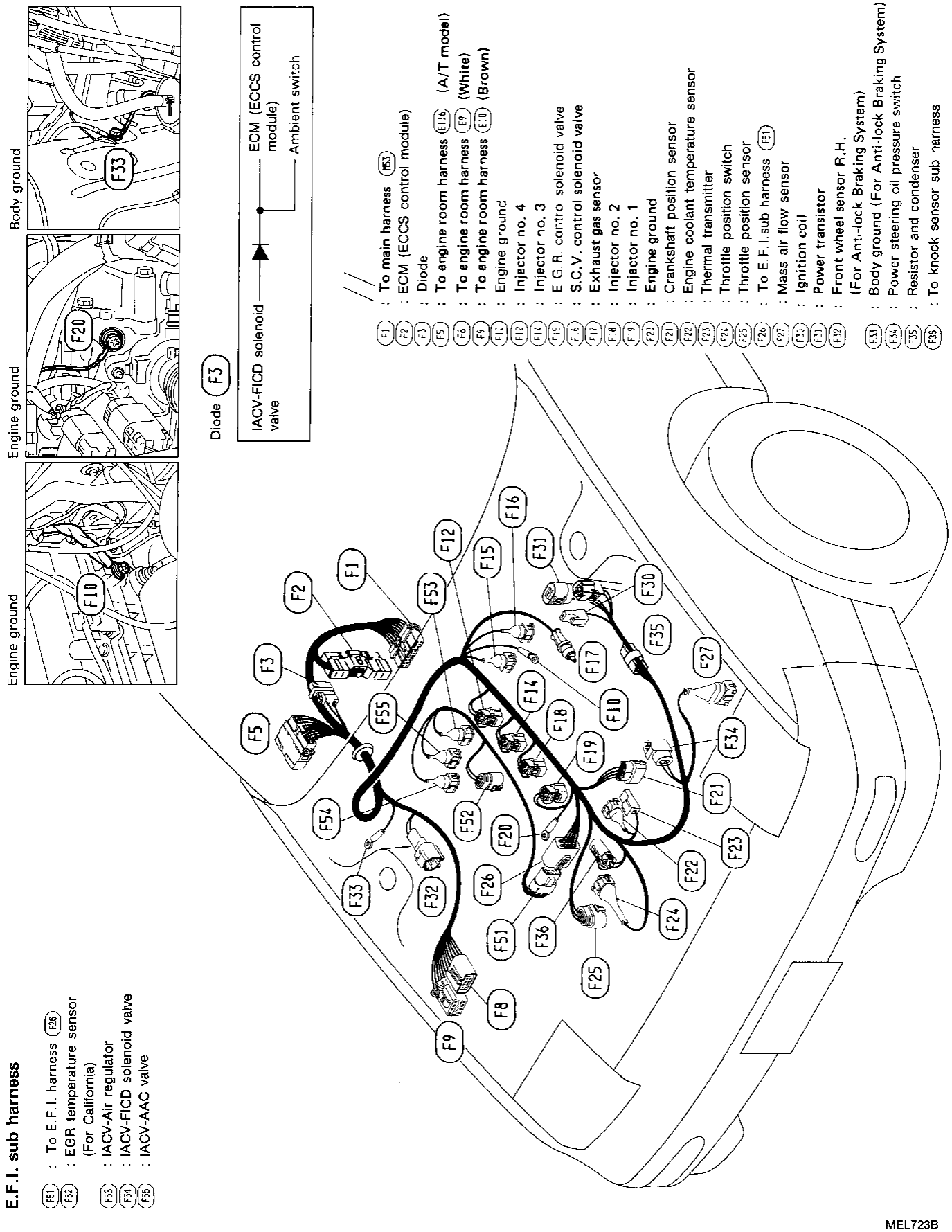
MEL051B

Engine Room Harness No. 2



MEL724B

E.F.I. Harness

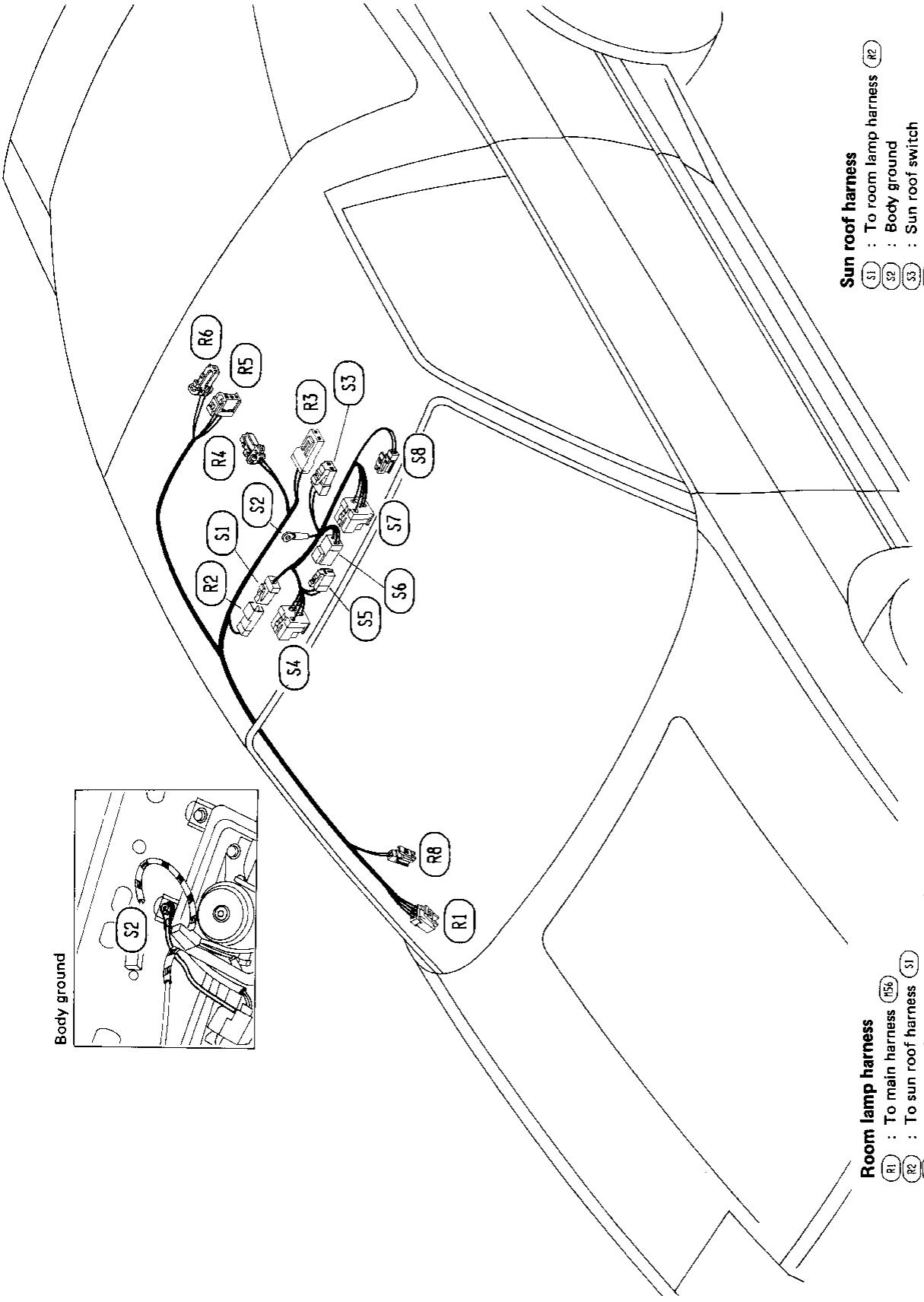


E.F.I. sub harness

F51 : To E.F.I. harness F26
F52 : EGR temperature sensor (For California)
F53 : IACV-Air regulator
F54 : IACV-FICD solenoid valve
F55 : IACV-AAC valve

MEL723B

Room Lamp and Sun Roof Harness



Sun roof harness

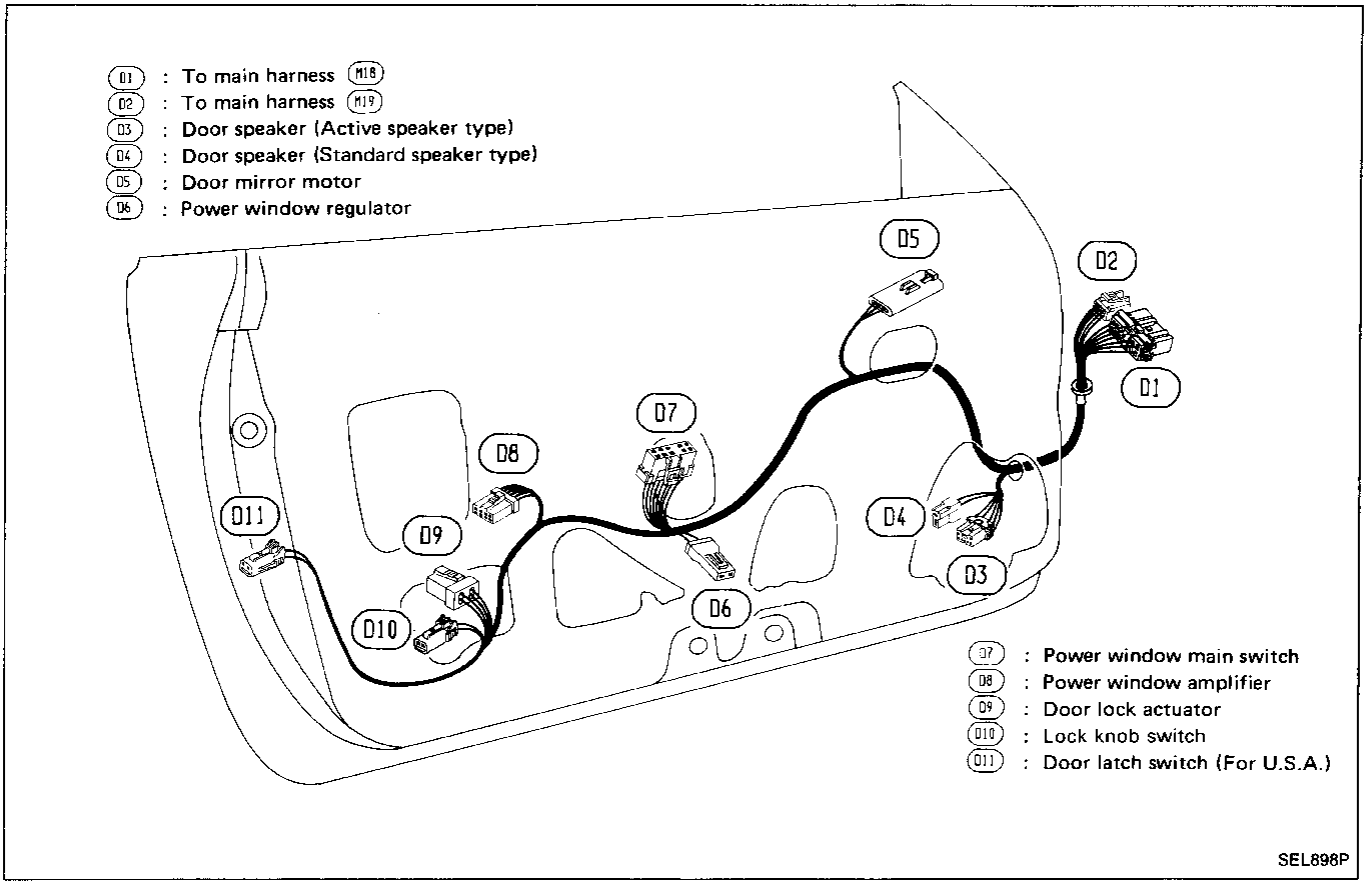
- (S1) : To room lamp harness (R2)
- (S2) : Body ground
- (S3) : Sun roof switch
- (S4) : Slide relay — open
- (S5) : Sun roof motor
- (S6) : Safety relay
- (S7) : Slide relay — close
- (S8) : Safety limit switch

Room lamp harness

- (R1) : To main harness (M56)
- (R2) : To sun roof harness (S1)
- (R3) : Spot lamp (Model with sun roof)
- (R4) : Interior lamp (Model without sun roof)
- (R5) : Interior lamp (Fastback with sun roof)
- (R6) : Interior lamp (Coupe with sun roof)
- (R8) : Automatic seat belt front limit switch (For U.S.A.)

SEL502L

Door Harness L.H.



Door Harness R.H.