



Mercedes-Benz

Electrical Troubleshooting Manual
Passenger Cars
Model Years 1975 – 1979



cardiagn.com

Mercedes-Benz of North America, Inc.

S-2379-000

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Service and Parts Literature

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HOW TO USE THIS BOOK WITH THE 1978/79 WIRING DIAGRAMS

The Mercedes-Benz *Electrical Troubleshooting Manual* has been modified for 1978/79. The changes and additions are explained in the paragraphs which follow. Unless otherwise stated, the information supplied in the 1977 ETM's is the same.

HOW TO READ THE WIRING DIAGRAMS

The 1978/79 wiring diagrams have been modified in order to simplify understanding and troubleshooting. The following information relates to these modifications.

The *power buses* have been eliminated. The cars do not physically contain power buses; therefore the diagrams reflect the actual wiring instead.

All fuses are shown in only one place on the diagram, together with all the circuits they feed. This feature will save time when following the *six-step troubleshooting procedure*.

All grounds which are terminated with a wire have been labeled with a *T* designation. In this way, together with the *Ground Termination Chart*, you will easily be able to identify all circuits having common grounds.

There are 11 different cars; but only 3 wiring diagrams. This was made possible because of the identical fusing for each model having the same chassis. All major accessories and ignition systems are shown on separate diagrams and are cross-referenced to the 3 main wiring diagrams.

- Dia. 1 — Main Wiring, Chassis Type 123 (models 240D, 300D, 280E, 280CE, 300CD).
- Dia. 2 — Main Wiring, Chassis Type 116 (models 280SE, 450SEL, 300SD, 6.9).
- Dia. 3 — Main Wiring, Chassis Type 107 (models 450SL, 450SLC).
- Dia. 4 — Automatic Climate Control
- Dia. 5 — Rear Window Heater
- Dia. 6 — Cruise Control
- Dia. 7 — Power Antenna
- Dia. 8 — Power Windows
- Dia. 9 — Heated Seats
- Dia. 10 — Sliding Roof
- Dia. 11 — Air Conditioner/Heater (model 240D)
- Dia. 12 — Glow Plug (models 240D, 300D)
- Dia. 13 — Ignition System (models 280E, 280CE)
- Dia. 14 — Glow Plug (model 300SD)

GROUND TERMINATIONS INDEX

The *Ground Termination Index* lists all the grounds which are terminated by a wire(s) to the frame or chassis of the vehicle. These terminations are illustrated on the wiring diagrams by a standard ground symbol with a circle added on top of it. Each of these terminations are identified with a "T" designation (T1, T2, etc.).

The Ground Termination Index lists each ground, which components are terminated for each ground, where each ground is located in the vehicles, and what wiring diagram(s) and coordinates they can be found on (FIG. NO. LOCATION column).

The Ground Termination Index contains 5 columns as follows:

MODEL NO. — lists all the model numbers.

GROUND ID NO. — lists the wire ground identification numbers which are found on all the wiring diagrams.








COMPONENTS — lists all the components in alphabetical order which are wire terminations to ground.

FIG. NO. LOCATION — lists the *Figure Number(s)* and *Coordinates* at which the ground(s) can be found. Since Figures 1, 2, & 3 are the only diagrams containing coordinates, a number appearing alone (*without coordinates*), indicates the Figure Number only.

CAR LOCATION — explains where the grounds can be found in the vehicles.

SYMBOLS AND DEFINITIONS

The following symbols have been changed:

	relay coils, clutch, solenoid
	wire terminated Ground
	frame Ground
	single filament light bulb
	double filament light bulb
	female
	male
	single pin connector

SIX-STEP TROUBLESHOOTING PROCEDURE

STEP 1: Verify the Complaint

Check the customer complaint to determine if a problem really exists. Road test it, and if possible, have the customer show you what happens. If the problem exists, note the symptoms.

Positive Symptom — the component functions normally.
Example: the horns blow when the horn ring is depressed.

Negative Symptom — the component does not function normally. Example: the horns do not blow when the horn ring is depressed.

STEP 2: Determine Related Symptoms

Determining related symptoms is a very important step. It will save you much time in the long run.

In order to obtain additional information about *where* the problem exists, related symptoms are found by conducting *operational checks* on circuits which are connected to the problem circuit. Operational checks are made *without* the use of test equipment. Your most important tool will be the wiring diagram. For example, refer to Fig. 1:

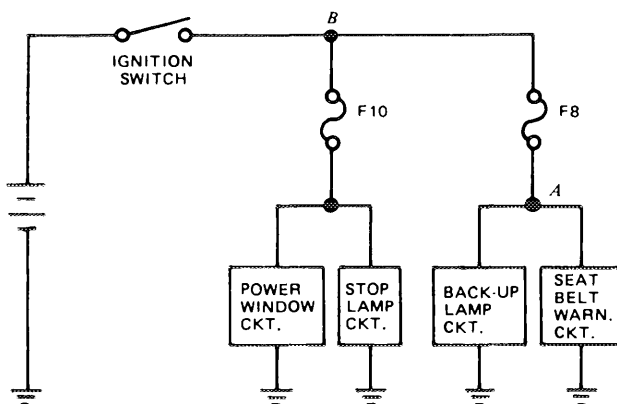


Figure 1

If the customer complaint was that the Back-Up Lamps didn't work, you would trace the circuit starting at ground at the back-up lamps until you reach the first common point (A). The seat belt warning circuit is also connected to point (A); therefore you should conduct an operational check on the seat belt warning circuit to see if it operates correctly. If it does (*positive symptom*), you would then proceed to step 3 in the troubleshooting procedure. If the seat belt circuit did not operate, you would then continue tracing the circuit towards the battery until you reach the next common point (B). The power windows or stop lamps are connected to point B; therefore you should check to see if either of them are working. If it works, you would then proceed to step 3.

STEP 3: Analyze the Symptoms

After conducting operational checks (*step 2*), the trouble will always lie between a check which resulted in a *negative* symptom, and a check which resulted in a *positive* symptom. Consider the following examples (*refer to Dia. 1*):

EXAMPLE 1: If the back-up lamps did not work; but the seat belt warning circuit worked, the trouble would lie between point A and ground at the back-up lamps.

EXAMPLE 2: If the back-up lamps and seat belt warning circuits didn't work; but the stop lamps worked, the trouble would lie between point B and ground.

In example 1 above, the trouble would be an *open*, since a short would have caused fuse F8 to blow open.

In example 2 above, the trouble may be a *short*. Fuse F8 may have opened due to a short in either the back-up lamp or seat belt warning circuits.

After analyzing the symptoms, you would then develop a plan to isolate the trouble. There are 3 things to consider:

1. What goes wrong most of the time? Some parts receive more use than others and therefore wear out sooner. Other parts are subjected to corrosion, while others are just natural trouble spots.
2. Check parts which are closest to you. This will save time. Simple tests should be made first.
3. How difficult the parts are to get to in order to perform tests on them determines the order in which they are checked. Leave the more difficult places until last. There is no substitute for common sense.

In order to work efficiently in isolating a trouble, you should make the least number of checks possible. To do this, you should use the *split-half* technique. In this technique, each check that you make should split the problem area in half. Decide *which* checks to make, *what* test equipment to use, and *what* the normal readings should be.

STEP 4: Isolate the Trouble

Follow your plan. After making the first isolation check (*using test equipment*), note if your results were normal (*positive symptom*); or abnormal (*negative symptom*). If the results were abnormal, select another check which would split the problem area in half. Keep doing this until the problem is isolated.

STEP 5: Correct the Trouble

Replace, repair, or adjust as specified by the manufacturer.

STEP 6: Check for Proper Operation

Make sure that the customer complaint is satisfied, and that everything works the way it is supposed to. Perform the same checks as in Step 1. All symptoms should be *positive*.

COMPONENT INDEX

The *Component Index* lists in alphabetical order, all the electrical components which are equipped in each of the 12 models.

In order to locate a component on a wiring diagram(s), merely locate the component in the left column under *COMPONENT*. Then, move across to the *MODEL* column. The number(s) appearing at the intersection relate to the *Diagram Number* and *Coordinates* which the components can be found. Since *Diagrams 1, 2, & 3* are the only diagrams containing coordinates, a number appearing alone (*without coordinates*), indicates the *Diagram Number* only. A dash (–) indicates that the component is *not* in a particular model.

EXAMPLE: If you wanted to locate the *Alternator* in *Model 300D*:

1. Locate *Alternator* under the column labeled *COMPONENT*.
2. Move across to the right until you reach the column labeled *300D*.
3. At the intersection between the two columns you should find: *1-2C, 12*. This means that the *Alternator* can be found on *Diagram 1, coordinate 2C*; and also on *Diagram 12*.

COMPONENT	MODEL 123						MODEL 116				MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	6.9	450SL	450SLC
Alternator	1-2C, 12	1-2C, 13	1-2C, 13	1-2C, 12	1-2C, 12	1-2C, 12	2-1C	2-1C	2-1C	2-1C	3-2C	3-2C
Ambient Temperature Sensor	—	4	4	4	4	4	4	4	4	4	4	4
Automatic Transmission Solenoid Valve	1-13F	1-13F	1-13F	1-13F	1-13F	1-13F	2-14H	2-14H	2-14H	2-14H	3-15E	3-15E
Battery	1-3D, 12	1-3D, 13	1-3D, 13	1-3D, 12	1-3D, 12	1-3D, 12	2-3D	2-3D	2-3D	2-3D	3-15E	3-15E
Bi-Level Flap Valve	—	4	4	4	4	4	4	4	4	4	4	4
Brake Wear Sensor; front left	1-9L	1-9L	1-9L	1-9L	1-9L	1-9L	2-12M	2-12M	2-12M	2-12M	3-11L	3-11L
Brake Wear Sensor; front right	1-9L	1-9L	1-9L	1-9L	1-9L	1-9L	2-12M	2-12M	2-12M	2-12M	3-11L	3-11L
Cigar Lighter	1-29E	1-29E	1-29E	1-29E	1-29E	1-29E	2-9G	2-9G	2-9G	2-9G	3-35H	3-35H
Climate Control Amplifier	—	4	4	4	4	4	4	4	4	4	4	4
Climate Control Unit	—	4	4	4	4	4	4	4	4	4	4	4
Clock	1-20C	1-20C	1-20C	1-20C	1-20C	1-20C	2-20K	2-20K	2-20K	2-20K	3-24J	3-24J
Cold Start Valve	—	13	13	—	—	—	2-4E	—	2-4E	2-4E	3-6E	3-6E
Coolant Temperature Sensor	1-13L	1-13L	1-13L	1-13L	1-13L	1-13L	2-14L	2-14L	2-14L	2-14L	3-13L	3-13L
Cruise Control Actuator	6	6	6	6	6	6	6	6	6	6	6	6
Cruise Control Amplifier	6	6	6	6	6	6	6	6	6	6	6	6
Diagnostic Plug	—	13	13	—	—	—	2-7H	2-7H	2-7H	2-7H	3-7H	3-7H
Distributor	—	13	13	—	—	—	2-4J	—	2-6J	2-6J	3-6J	3-6J
Engine Temperature Sensor	12	—	—	12	12	12	—	—	—	—	—	—
Enrichment Compensation Heater	—	13	13	—	—	—	2-7E	—	2-7E	2-7E	—	—
Flasher	—	—	—	—	—	—	2-20D	2-20D	2-20D	2-20D	—	—
Fuel Gauge	1-10J	1-10J	1-10J	1-10J	1-10J	1-10J	2-14K	2-14K	2-14K	2-14K	3-14J	3-14J
Fuel Tank Sensor	1-10L	1-10L	1-10L	1-10L	1-10L	1-10L	2-14L	2-14L	2-14L	2-14L	3-14L	3-14L
Fuses:												
Climate Control Amplifier; in-line	—	4	4	4	4	4	4	4	4	4	4	4
Glow Plug; in-line	12	—	—	12	12	12	—	—	—	—	—	—
Main Fuse Box	1-11C,23A, 23G,29C,8	1-11C,23A, 23G,29C,8	1-11C,23A, 23G,29C,8	1-11C,23A, 23G,29C,8	1-11C,23A, 23G,29C,8	1-11C,23A, 23G,29C,8	2-15B,31G, 35B,8	2-15B,31G, 35B,8	2-15B,31G, 35B,8	2-15B,31G, 35B,8	3-16A,29F, 35F,8	3-16A,29F, 35F,8
Radio; in-line	1-30E	1-30E	1-30E	1-30E	1-30E	1-30E	2-10F	2-10F	2-10F	2-10F	—	—
Seat Heaters Fuse Box	9	9	9	9	9	9	9	9	9	9	9	9
Gauges:												
Fuel	1-10J	1-10J	1-10J	1-10J	1-10J	1-10J	2-14K	2-14K	2-14K	2-14K	3-14J	3-14J
Tachometer	—	—	—	—	—	—	2-15K	2-15K	2-15K	2-15K	3-18J	3-18J
Temperature	1-14J	1-14J	1-14J	1-14J	1-14J	1-14J	2-15K	2-15K	2-15K	2-15K	3-13J	3-13J
Glow Plug Resistors	12	—	—	12	12	12	—	—	—	—	—	—
Glow Plugs	12	—	—	12	12	12	—	—	—	—	—	—
Glow Plug Timer	12	—	—	12	12	12	—	—	—	—	—	—
Hazard/Flasher Timer Assembly	1-18H	1-18H	1-18H	1-18H	1-18H	1-18H	—	—	—	—	3-19D	3-19D
Heating Coil	—	—	—	—	—	—	—	—	—	—	3-5B	3-5B
Horns	1-11D	1-11D	1-11D	1-11D	1-11D	1-11D	2-36D	2-36D	2-36D	2-36D	3-22B	3-22B
Ignition Coil	—	13	13	—	—	—	2-5H	2-5H	2-5H	2-5H	3-5H	3-5H
In-Car Temperature Sensor	—	4	4	4	4	4	4	4	4	4	4	4
Instrument Panel	1-10J,20C, 25H	1-10J,20C, 25H	1-10J,20C, 25H	1-10J,20C, 25H	1-10J,20C, 25H	1-10J,20C, 25H	2-18K,34H	2-18K,34H	2-18K,34H	2-18K,34H	3-18J,32J	3-18J,32J
Instrument Panel Lamp Rheostat	1-14J	1-14J	1-14J	1-14J	1-14J	1-14J	2-26J	2-26J	2-26J	2-26J	3-25J	3-25J
Interval Wiper Control Unit	1-26H	1-26H	1-26H	1-26H	1-26H	1-26H	2-35H	2-35H	2-35H	2-35H	3-33H	3-33H

COMPONENT INDEX

COMPONENT	MODEL 123							MODEL 116			MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	6.9	450SL	450SLC
Lamps:												
Back-Up; left	1-12F	1-12F	1-12F	1-12F	1-12F	1-11F	2-13H	2-13H	2-13H	2-13H	3-15E	3-15E
Back-Up; right	1-13F	1-13F	1-13F	1-13F	1-13F	1-12F	2-14H	2-14H	2-14H	2-14H	3-16E	3-16E
Blower Switch	1-16K	—	—	—	—	—	—	—	—	—	—	—
Brake Warning Indicator	1-9J	1-9J	1-9J	1-9J	1-9J	1-9J	2-13K	2-13K	2-13K	2-13K	3-13J	3-13J
Brake Wear Indicator	1-9J	1-9J	1-9J	1-9J	1-9J	1-9J	2-12K	2-12K	2-12K	2-12K	3-11J	3-11J
Charge Indicator	1-7J	1-7J	1-7J	1-7J	1-7J	1-7J	2-11K	2-11K	2-11K	2-11K	3-9J	3-9J
Cigar Lighter	1-29E	1-29E	1-29E	1-29E	1-29E	1-29E	2-9G	2-9G	2-9G	2-9G	3-35H	3-35H
Climate Control Panel	—	1-17M	1-17M	1-17M	1-17M	1-17M	2-22H	2-22H	2-22H	2-22H	3-21D	3-21D
Dome; front	1-12H	1-12H	1-12H	1-12H	1-12H	1-12H	2-21D	2-21D	2-21D	2-21D	—	3-24C
Dome; left	—	—	—	—	—	—	—	—	—	—	3-26E	—
Dome; rear	1-24D	1-24D	1-24D	1-24D	1-24D	1-25B	2-24E	2-24E	2-24E	2-24E	—	3-23F
Dome; right	—	—	—	—	—	—	—	—	—	—	3-27E	—
Door; left	—	—	—	—	—	—	—	—	—	—	3-24E	3-24E
Door; right	—	—	—	—	—	—	—	—	—	—	3-25E	3-25E
Fasten Seat Belt	1-11J	1-11J	1-11J	1-11J	1-11J	1-11J	2-16K	2-16K	2-16K	2-16K	3-11J	3-11J
Fog; left	1-23K	1-23K	1-23K	1-23K	1-23K	1-23K	2-31K	2-31K	2-31K	2-31K	3-30L	3-30L
Fog; right	1-23K	1-23K	1-23K	1-23K	1-23K	1-23K	2-32K	2-32K	2-32K	2-32K	3-30L	3-30L
Gearshift	1-17F	1-17F	1-17F	1-17F	1-17F	1-17F	2-27E	2-27E	2-27E	2-27E	3-27J	3-27J
Glove Box	1-31D	1-31D	1-31D	1-31D	1-31D	1-31D	2-11F	2-11F	2-11F	2-11F	3-36G	3-36G
Hazard Indicator	1-18H	1-18H	1-18H	1-18H	1-18H	1-18H	2-18E	2-18E	2-18E	2-18E	3-20D	3-20D
Headlamp; high, left	—	—	—	—	—	—	2-33K	2-33K	2-33K	2-33K	3-31L	3-31L
Headlamp; high, right	—	—	—	—	—	—	2-34K	2-34K	2-34K	2-34K	3-32L	3-32L
Headlamp; high/low, left	1-25K	1-25K	1-25K	1-25K	1-25K	1-25K	2-32K	2-32K	2-32K	2-32K	3-31L	3-31L
Headlamp; high/low, right	1-24K	1-24K	1-24K	1-24K	1-24K	1-24K	2-33K	2-33K	2-33K	2-33K	3-32L	3-32L
Heated Rear Window	5	5	5	5	5	5	5	5	5	5	5	5
Heater Control Illumination	1-15K	—	—	—	—	—	—	—	—	—	—	—
High Beam Indicator	1-25H	1-25H	1-25H	1-25H	1-25H	1-25H	2-33H	2-33H	2-33H	2-33H	3-32J	3-32J
Instrument Panel	1-14J	1-14J	1-14J	1-14J	1-14J	1-14J	2-25K	2-25K	2-25K	2-25K	3-35J	3-35J
License Plate; left	1-18F	1-18F	1-18F	1-18F	1-18F	1-20F	2-27K	2-27K	2-27K	2-27K	3-25L	3-25L
License Plate; right	1-19F	1-19F	1-19F	1-19F	1-19F	1-20F	2-27K	2-27K	2-27K	2-27K	3-26L	3-26L
Low Fuel Indicator	1-10J	1-10J	1-10J	1-10J	1-10J	1-10J	2-14K	2-14K	2-14K	2-14K	3-14J	3-14J
Marker; front, left	—	—	—	—	—	—	—	—	—	—	3-27L	3-27L
Marker; front, right	—	—	—	—	—	—	—	—	—	—	3-27L	3-27L
Marker; rear, left	1-19F	1-19F	1-19F	1-19F	1-19F	1-19F	2-28K	2-28K	2-28K	2-28K	3-25L	3-25L
Marker; rear, right	1-20F	1-20F	1-20F	1-20F	1-20F	1-20F	2-29K	2-29K	2-29K	2-29K	3-26L	3-26L
Parking; front, left	1-22K	1-22K	1-22K	1-22K	1-22K	1-22K	2-31K	2-31K	2-31K	2-31K	3-29L	3-29L
Parking; front, right	1-21K	1-21K	1-21K	1-21K	1-21K	1-21K	2-29K	2-29K	2-29K	2-29K	3-28L	3-28L
Preglow Indicator	12	—	—	12	12	12	—	2-17K	—	—	—	—
Reading; left	—	—	—	—	—	—	2-25E	2-25E	2-25E	2-25E	—	—
Reading; right	—	—	—	—	—	—	2-23E	2-23E	2-23E	2-23E	—	—

COMPONENT INDEX

COMPONENT	MODEL 123						MODEL 116			MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	450SL	450SLC
Lamps (con't) :											
Seat Heater; front, left	9	9	9	9	9	9	9	9	9	9	9
Seat Heater; front, right	9	9	9	9	9	9	9	9	9	9	9
Seat Heater; rear, left	-	-	-	-	-	-	9	9	9	-	-
Seat Heater; rear, right	-	-	-	-	-	-	9	9	9	-	-
Stop: left	1-14F	1-14F	1-14F	1-14F	1-14F	1-14F	2-12H	2-12H	2-12H	3-16E	3-16E
Stop: right	1-15F	1-15F	1-15F	1-15F	1-15F	1-15F	2-12H	2-12H	2-12H	3-17E	3-17E
Suspension Warning Indicator	-	-	-	-	-	-	-	-	-	-	-
Tail; left	1-22K	1-22K	1-22K	1-22K	1-22K	1-22K	2-30K	2-30K	2-30K	3-29L	3-29L
Tail; right	1-21K	1-21K	1-21K	1-21K	1-21K	1-21K	2-30K	2-30K	2-30K	3-28L	3-28L
Temperature Vacuum Switch	1-18F	-	-	-	-	-	-	-	-	-	-
Trunk	1-19C	1-19C	1-19C	1-19C	1-19C	1-19C	2-25E	2-25E	2-25E	3-22E	3-22E
Turn Signal Indicator; left	1-18K	1-18K	1-18K	1-18K	1-18K	1-18K	2-18K	2-18K	2-18K	3-19J	3-19J
Turn Signal Indicator; right	1-18K	1-18K	1-18K	1-18K	1-18K	1-18K	2-18K	2-18K	2-18K	3-22J	3-22J
Turn Signal; front, left	1-17K	1-17K	1-17K	1-17K	1-17K	1-17K	2-17G	2-17G	2-17G	3-19H	3-19H
Turn Signal; front, right	1-19K	1-19K	1-19K	1-19K	1-19K	1-19K	2-18G	2-18G	2-18G	3-21H	3-21H
Turn Signal; rear, left	1-18K	1-18K	1-18K	1-18K	1-18K	1-18K	2-17G	2-17G	2-17G	3-20H	3-20H
Turn Signal; rear, right	1-19K	1-19K	1-19K	1-19K	1-19K	1-19K	2-17G	2-17G	2-17G	3-20H	3-20H
Motors:											
Antenna	7	7	7	7	7	7	7	7	7	7	7
Auxiliary Fan	11	4	4	4	4	4	4	4	4	4	4
Auxiliary Water Pump	-	4	4	4	4	4	4	4	4	4	4
Blower	11	4	4	4	4	4	4	4	4	4	4
Fuel Pump	-	13	13	-	-	-	2-7E	-	2-7E	3-5B	3-5B
Servo Assembly	-	4	4	4	4	4	4	4	4	4	4
Sliding Roof	10	10	10	10	10	10	10	10	10	10	10
Starter	1-4C,12	1-4C,13	1-4C,13	1-4C,12	1-4C,12	1-4C,12	2-4C	2-4C	2-4C	3-4C	3-4C
Washer Pump; rear door	-	-	-	-	-	1-29J	-	-	-	-	-
Window; front, left	8	8	8	8	8	8	8	8	8	8	8
Window; front, right	8	8	8	8	8	8	8	8	8	8	8
Window; rear, left	8	8	8	8	8	8	8	8	8	8	8
Window; rear, right	8	8	8	8	8	8	8	8	8	8	8
Windshield Washer	1-27G	1-27G	1-27G	1-27G	1-27G	1-27G	2-36G	2-36G	2-36G	3-34G	3-34G
Windshield Wiper	1-25K	1-25K	1-25K	1-25K	1-25K	1-25K	2-34J	2-34J	2-34J	3-33L	3-33L
Wiper; rear door	-	-	-	-	-	1-29L	-	-	-	-	-
Overload Protection Device Switching Unit	-	-	-	-	-	-	-	2-14E	-	-	-
Preglow Indicator Temperature Sender	-	-	-	-	-	-	-	14	-	-	-

COMPONENT INDEX

COMPONENT	MODEL 123					MODEL 116					MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	6.9	450SL	450SLC
Radio	1-30E	1-30E	1-30E	1-30E	1-30E	1-30E	2-10G	2-10G	2-10G	2-10G	3-36H	3-36H
Rear Window Heater	5	5	5	5	5	5	5	5	5	5	3-11E	3-11E
Relays (Solenoids/Valves):												
A/C I	11	—	—	—	—	—	—	—	—	—	—	—
A/C II	11	—	—	—	—	—	—	—	—	—	—	—
A/C Compressor Clutch	11	4	4	4	4	4	4	4	4	4	4	4
A/C Starter	12	13	13	12	12	12	2-6C	2-6C	2-6C	2-6C	3-8C	3-8C
Antenna	7	7	7	7	7	7	7	7	7	7	7	7
Automatic Transmission Solenoid Valve	1-13F	1-13F	1-13F	1-13F	1-13F	1-13F	2-14H	2-14H	2-14H	2-14H	3-15E	3-15E
Auxiliary Fan	11	4	4	4	4	4	4	4	4	4	4	4
Auxiliary Fan Control	—	4	4	—	—	—	4	—	4	4	4	4
Bi-Level Flap Valve	—	4	4	4	4	4	4	4	4	4	4	4
Changeover Valve	—	4	4	—	—	—	4	—	4	4	4	4
Cold Start Valve	—	13	13	—	—	—	2-4E	—	2-4E	2-4E	—	—
Cruise Control Actuator	6	6	6	6	6	6	6	6	6	6	6	6
Defrost	—	4	4	4	4	4	4	4	4	4	4	4
Delay; Rear Window Heater	5	5	5	5	5	5	5	5	5	5	3-11C	3-11C
Dome Lamp Delay	—	—	—	—	—	—	—	—	2-22D	2-22D	—	—
Footwell Flap Valve	—	4	4	4	4	4	4	4	4	4	4	4
Fresh Recirculating Air Flap Valve	—	4	4	4	4	4	4	4	4	4	4	4
Fuel Pump	—	13	13	—	—	—	2-7D	—	2-7D	2-7D	3-5A	3-5A
Ignition Changeover Valve	—	4	4	—	—	—	4	—	4	4	4	4
Switchover Valve	—	—	—	—	—	—	—	—	—	—	—	—
Thermal Time Switch	—	13	13	—	—	—	2-6E	—	2-6E	2-6E	—	—
Window	8	8	8	8	8	8	8	8	8	8	8	8
Resistors:												
Ambient Temperature Sensor	—	4	4	4	4	4	4	4	4	4	4	4
Ballast; .4Ω	—	13	13	—	—	—	2-4F	—	2-4F	2-4F	3-5F	3-5F
Ballast; .6Ω	—	13	13	—	—	—	2-4G	—	2-4G	2-4G	3-5G	3-5G
Blower	11	4	4	4	4	4	4	4	4	4	4	4
Engine Temperature Sensor	12	—	—	12	12	12	—	—	—	—	—	—
Glow Plug	12	—	—	12	12	12	—	—	—	—	—	—
In-Car Temperature Sensor	—	4	4	4	4	4	4	4	4	4	4	4
Instrument Panel Lamp Rheostat	1-14J	1-14J	1-14J	1-14J	1-14J	1-14J	2-25K	2-25K	2-25K	2-25K	3-25J	3-25J
Preglow Indicator Temperature Sender	—	—	—	—	—	—	—	14	—	—	—	—
Seat Belt Warning Unit	1-9G	1-9G	1-9G	1-9G	1-9G	1-9G	2-11L, 16E	2-11L, 16E	2-11L, 16E	2-11L, 16E	3-10K, 14D	3-10K, 14D
Seat Heater; front, left	9	9	9	9	9	9	9	9	9	9	9	9
Seat Heater; front, right	9	9	9	9	9	9	9	9	9	9	9	9
Seat Heater; rear, left	—	—	—	—	—	—	9	9	9	9	—	—
Seat Heater; rear, right	—	—	—	—	—	—	9	9	9	9	—	—

COMPONENT INDEX

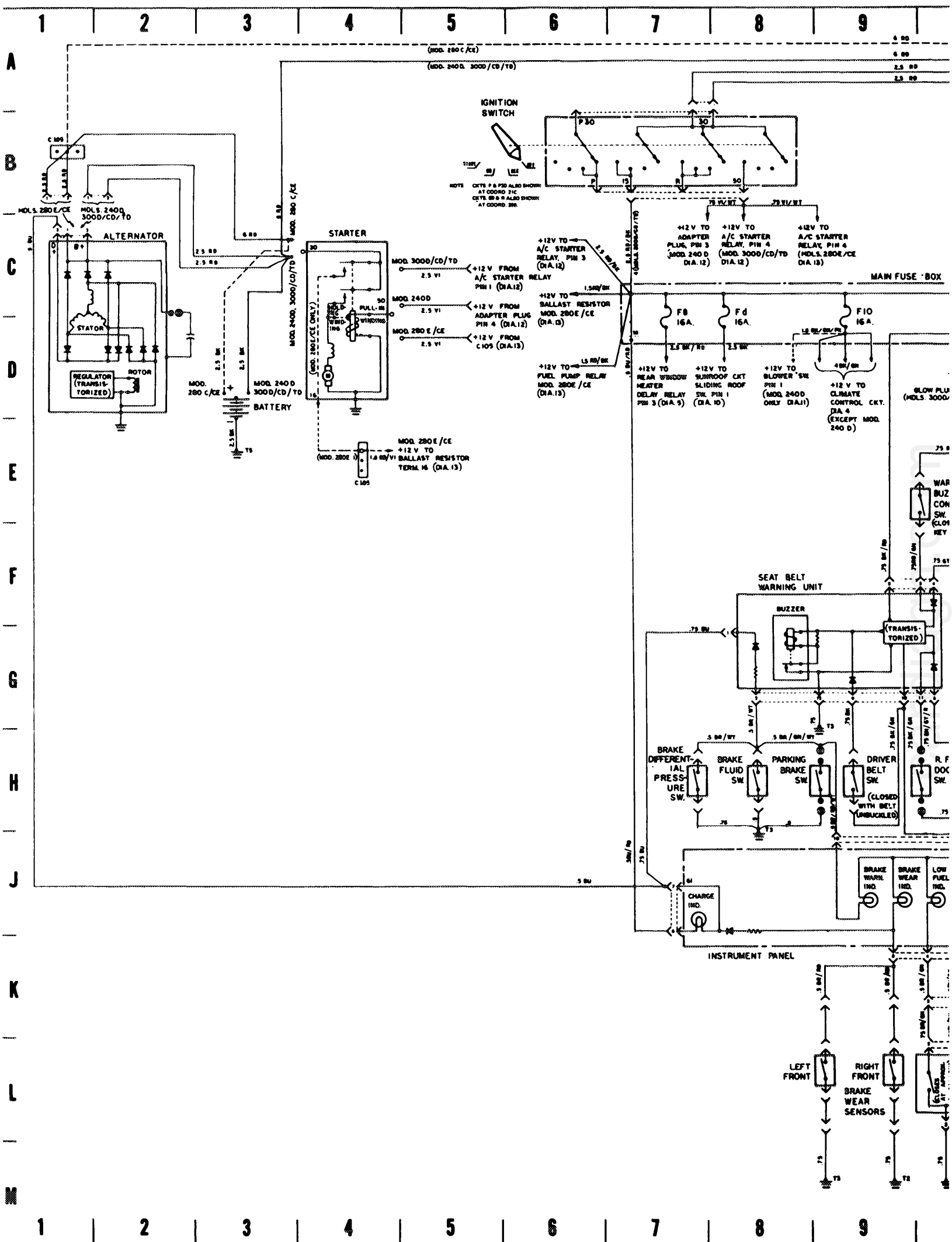
COMPONENT	MODEL 123					MODEL 116					MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	6.9	450SL	450SLC
Speed Sensor	6	6	6	6	6	6	6	6	6	6	6	6
Servo Assembly	—	4	4	4	4	4	4	4	4	4	4	4
Spark Plugs	—	13	13	—	—	—	24K	—	26K	26K	35K	35K
Starter	14C,12	14C,13	14C,13	14C,12	14C,12	14C,12	24C	24C	24C	24C	34C	34C
Switches:												
Antenna Control	7	7	7	7	7	7	7	7	7	7	7	7
Back-Up Lamp/Starter Lockout	1-12D	1-12D	1-12D	1-12D	1-12D	1-12D	2-13G	2-13G	2-13G	2-13G	3-16C	3-16C
8i-Level Vacuum	—	4	4	4	4	4	4	4	4	4	4	4
Blower Master Vacuum	—	4	4	4	4	4	4	4	4	4	4	4
Blower Motor	11	—	—	—	—	—	—	—	—	—	—	—
Brake Differential Pressure	1-7H	1-7H	1-7H	1-7H	1-7H	1-7H	2-9M	2-9M	2-9M	2-9M	3-12L	3-12L
Brake Fluid	1-8H	1-8H	1-8H	1-8H	1-8H	1-8H	2-10M	2-10M	2-10M	2-10M	3-12L	3-12L
Brake Pad Wear Sensor; front, left	1-9L	1-9L	1-9L	1-9L	1-9L	1-9L	2-12M	2-12M	2-12M	2-12M	3-11L	3-11L
Brake Pad Wear Sensor; front, right	1-9L	1-9L	1-9L	1-9L	1-9L	1-9L	2-12M	2-12M	2-12M	2-12M	3-11L	3-11L
Climate Control Unit	—	4	4	4	4	4	4	4	4	4	4	4
Combination	1-11E,19J,25F	1-11E,19J,25F	1-11E,19J,25F	1-11E,19J,25F	1-11E,19J,25F	1-11E,19J,25F	2-19F,34E	2-19F,34E	2-19F,34E	2-19F,34E	3-20E,22C,32E	3-20E,22C,32E
Compressor	—	4	4	4	4	4	4	4	4	4	4	4
Compressor Low Pressure	—	4	4	4	4	4	4	4	4	4	4	4
Compressor On/Off	—	4	4	4	4	4	4	4	4	4	4	4
Compressor Vacuum	—	4	4	4	4	4	4	4	4	4	4	4
Cruise Control	6	6	6	6	6	6	6	6	6	6	6	6
Dimmer (Combination Switch)	1-23F	1-23F	1-23F	1-23F	1-23F	1-23F	2-32E	2-32E	2-32E	2-32E	3-30E	3-30E
Dome Lamp; front	1-12H	1-12H	1-12H	1-12H	1-12H	1-12H	2-21D	2-21D	2-21D	2-21D	3-27D	3-24C
Dome Lamp; rear	1-24C	1-24C	1-24C	1-24C	1-24C	1-25C	2-24C	2-24C	2-24C	2-24C	—	3-23E
Door; front, left	1-10H	1-10H	1-10H	1-10H	1-10H	1-10H	2-16G	2-16G	2-16G	2-16G	3-24F	3-24F
Door; front, right	1-9H	1-9H	1-9H	1-9H	1-9H	1-9H	2-22F	2-22F	2-22F	2-22F	3-25F	3-25F
Door; rear	—	—	—	—	—	1-25D	—	—	—	—	—	—
Door; rear, left	1-23C	1-23C	1-23C	1-23C	1-23C	1-26D	2-24C	2-24C	2-24C	2-24C	—	—
Door; rear, right	1-24C	1-24C	1-24C	1-24C	1-24C	1-26D	2-25C	2-25C	2-25C	2-25C	—	—
Drier Temperature	—	—	—	4	4	4	—	4	—	—	—	—
Driver Belt	1-9H	1-9H	1-9H	1-9H	1-9H	1-9H	2-17D	2-17D	2-17D	2-17D	3-14E	3-14E
Electric Window; console, left	8	8	8	8	8	8	8	8	8	8	8	8
Electric Window; console, right	8	8	8	8	8	8	8	8	8	8	8	8
Electric Window; rear, left	8	8	8	8	8	8	8	8	8	8	8	8
Electric Window; rear, right	8	8	8	8	8	8	8	8	8	8	8	8
Engine Temperature	11	4	4	4	4	4	4	4	4	4	4	4
Evaporating Icing	—	4	4	4	4	4	4	4	4	4	4	4
Fog (Light Switch Assembly)	1-23J	1-23J	1-23J	1-23J	1-23J	1-23J	2-31H	2-31H	2-31H	2-31H	3-30J	3-30J
Glove Box Lamp	1-31F	1-31F	1-31F	1-31F	1-31F	1-31F	2-11H	2-11H	2-11H	2-11H	3-36H	3-36H

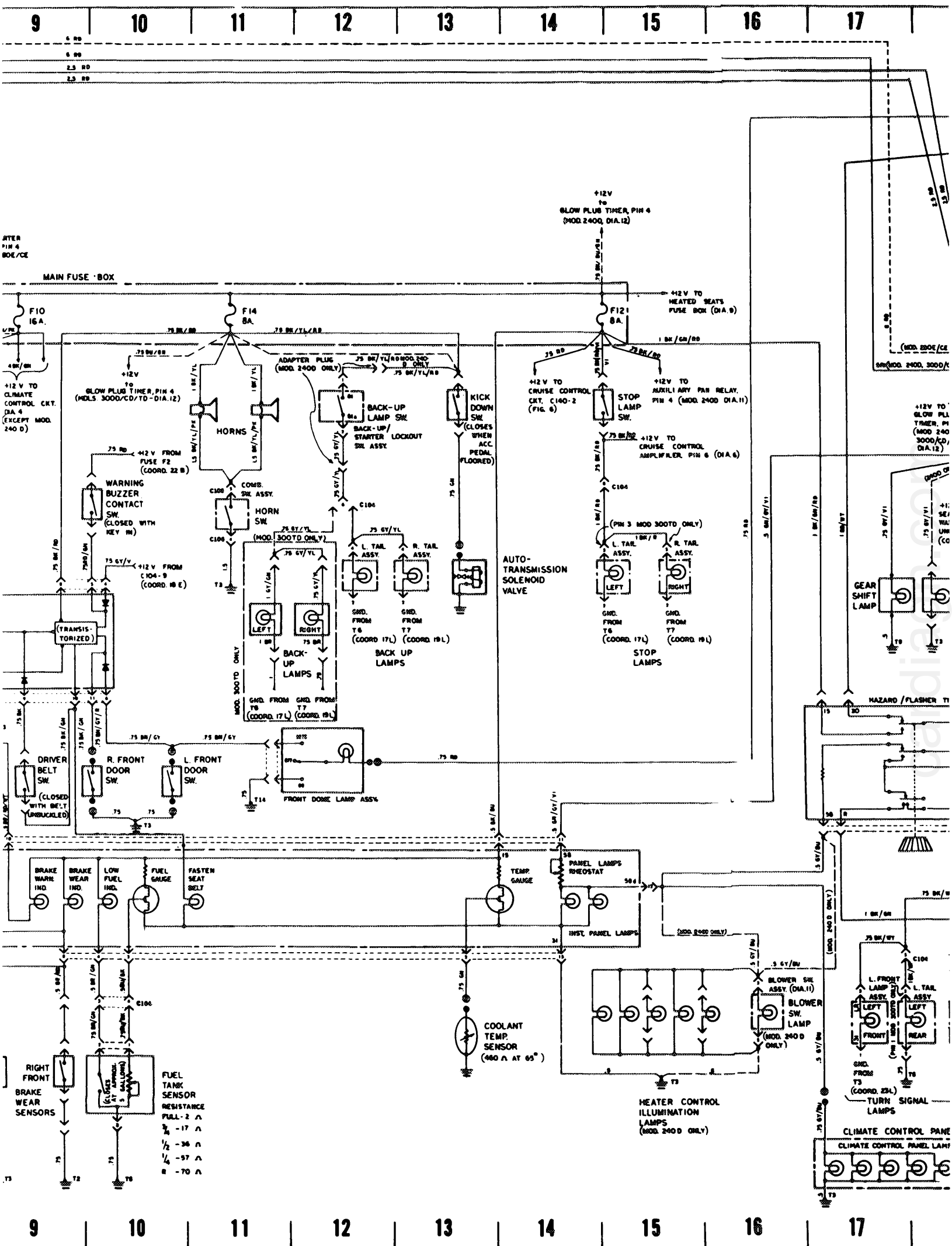
COMPONENT INDEX

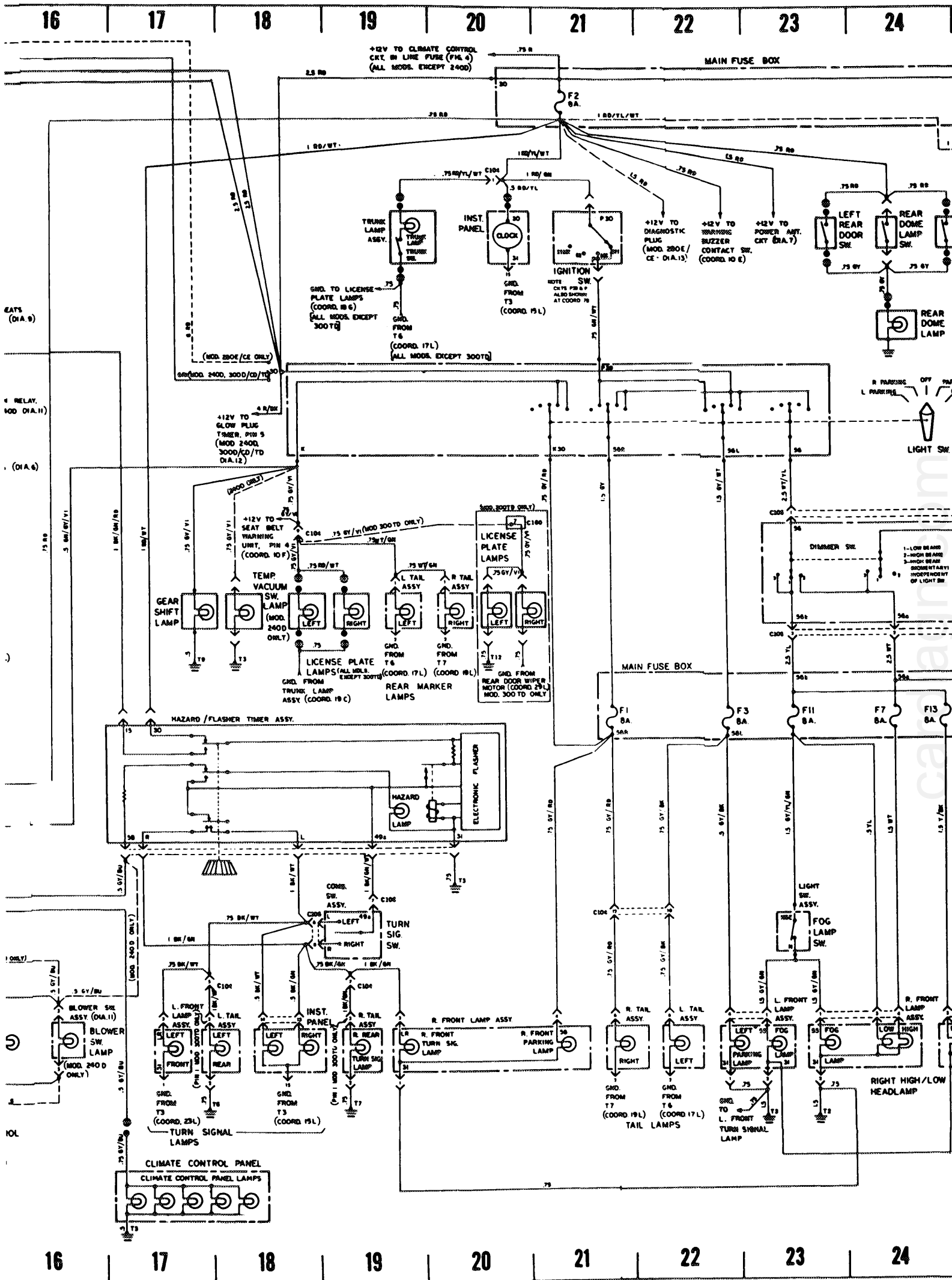
COMPONENT	MODEL 123						MODEL 116				MODEL 107	
	240D	280E	280CE	300D	300CD	300TD	280SE	300SD	450SEL	6.9	450SL	450SLC
Switches (con't):												
Hazard/Flasher	1-17H	1-17H	1-17H	1-17H	1-17H	1-17H	—	—	—	—	3-20D	3-20D
Hazard Warning	—	—	—	—	—	—	2-18E	2-18E	2-18E	2-18E	—	—
Heated Rear Window	5	5	5	5	5	5	5	5	5	5	3-11C	3-11C
Horn (Combination Switch Assembly)	1-11E	1-11E	1-11E	1-11E	1-11E	1-11E	2-36E	2-36E	2-36E	2-36E	3-22C	3-22C
Ignition	1-7B,21C, 28B	1-7B,21C, 28B	1-7B,21C, 28B	1-7B,21C, 28B	1-7B,21C, 28B	1-7B,21C, 28B	2-7B, 10E, 30C	2-7B, 10E, 30C	2-7B, 10E, 30C	2-7B, 10E, 30C	3-9B,27B,	3-9B,27B,
Intake Manifold Pressure	—	—	—	—	—	—	—	2-13D	—	—	—	—
Kickdown	1-13D	1-13D	1-13D	1-13D	1-13D	1-13D	2-14G	2-14G	2-14G	2-14G	3-15D	3-15D
Level Control	—	—	—	—	—	—	—	—	—	—	—	—
Light	1-21D,23J	1-21D,23J	1-21D,23J	1-21D,23J	1-21D,23J	1-21D,23J	2-30D,31H	2-30D,31H	2-30D,31H	2-30D,31H	3-26H,28C, 30J	3-26H,28C, 30J
Parking Brake	1-8H	1-8H	1-8H	1-8H	1-8H	1-8H	2-10M	2-10M	2-10M	2-10M	3-13L	3-13L
Reading Lamp; left	—	—	—	—	—	—	2-25E	2-25E	2-25E	2-25E	—	—
Reading Lamp; right	—	—	—	—	—	—	2-23E	2-23E	2-23E	2-23E	—	—
Receiver Drier Temperature	11	—	—	—	—	—	—	—	—	—	—	—
Refrigerant Loss	11	—	—	—	—	—	—	—	—	—	—	—
Refrigerant Temperature	—	4	—	4	—	—	4	—	4	4	4	4
Seat Heater Control; front, left	9	9	9	9	9	9	9	9	9	9	9	9
Seat Heater Control; front, right	9	9	9	9	9	9	9	9	9	9	9	9
Seat Heater Control; rear, left	—	—	—	—	—	—	9	9	9	9	—	—
Seat Heater Control; rear, right	—	—	—	—	—	—	9	9	9	9	—	—
Sensor Plate Safety	—	13	13	—	—	—	2-8E	—	2-8E	2-8E	3-6B	3-6B
Sliding Roof	10	10	10	10	10	10	10	10	10	10	—	10
Starter Lockout/ (Back-Up Lamp)	12	13	13	12	12	12	2-6D	2-6D	2-6D	2-6D	3-8C	3-8C
Stop Lamp	1-14D	1-14D	1-14D	1-14D	1-14D	1-14D	2-12G	2-12G	2-12G	2-12G	3-17C	3-17C
Suspension Pressure Sensor	—	—	—	—	—	—	—	—	—	—	—	—
Temperature Vacuum	11	—	—	—	—	—	—	—	—	—	—	—
Thermal Time	12	13	13	12	12	12	—	—	—	—	—	—
Transmission Pressure	—	—	—	—	—	—	—	—	—	—	3-8E	3-8E
Trunk Lamp	1-19C	1-19C	1-19C	1-19C	1-19C	1-19C	2-25E	2-25E	2-25E	2-25E	—	—
Turn Signal (Combination Switch Assembly)	1-19J	1-19J	1-19J	1-19J	1-19J	1-19J	2-19F	2-19F	2-19F	2-19F	3-22E	3-22E
Warning Buzzer Contact	1-9E	1-9E	1-9E	1-9E	1-9E	1-9E	2-16C	2-16C	2-16C	2-16C	3-20E	3-20E
Washer (Combination Switch Assembly)	1-27F	1-27F	1-27F	1-27F	1-27F	1-27F	2-36E	2-36E	2-36E	2-36E	3-13B	3-13B
Water Pump Temperature	—	4	4	4	4	4	4	4	4	4	3-34E	3-34E
Windshield Wiper (Combination Sw. Assembly)	1-26F	1-26F	1-26F	1-26F	1-26F	1-26F	2-35E	2-35E	2-35E	2-35E	3-33E	3-33E
Wiper/Washer; rear door	—	—	—	—	—	1-30H	—	—	—	—	—	—
Tachometer	—	—	—	—	—	—	2-15K	2-15K	2-15K	2-15K	3-18J	3-18J
TDC Sensor	—	13	13	—	—	—	2-5H	2-5H	2-5H	2-5H	3-6H	3-6H
TDC Sensor Adapter	—	—	—	—	—	—	—	—	—	—	—	—
Temperature Gauge	1-14J	1-14J	1-14J	1-14J	1-14J	1-14J	2-15K	2-15K	2-15K	2-15K	3-13J	3-13J
Thermal Time Switch	—	13	13	—	—	—	2-6E	—	2-6E	2-6E	—	—
Transistorized Ignition Switching Unit	—	13	13	—	—	—	2-6F	—	2-6F	2-6F	3-7F	3-7F

GROUND TERM. NO.	COMPONENT	FIG. NO. LOCATION	CAR LOCATION
T1	A/C Compressor Clutch	4	Under hood; left top front.
	Fog Lamp; left	3-30M	
	Headlamp; high, left	3-31M	
	Headlamp; high/low, left	3-31M	
	Marker Lamp; left front	3-31M	
	Parking Lamp; left front	3-31M	
	Refrigerant Temperature Switch	4	
	Turn Signal Lamp; left front	3-19H	
	Auxiliary Fan Motor	4	
	Auxiliary Water Pump	4	
T2	Blower Motor	4	Under hood; right top front.
	Fog Lamp; right	3-30M	
	Footwell Flap Valve	4	
	Headlamp; high, right	3-32M	
	Headlamp; high/low; right	3-32M	
	Heating Coil	3-5C	
	Marker Lamp; right front	3-32M	
	Parking Lamp; right front	3-32M	
	Servo Assembly	4	
	Turn Signal Lamp; right front	3-21H	
T3	Windshield Washer Motor	3-34G	Inside car, behind dash; left of steering column.
	Auxiliary Fan Control Relay	4	
	Bi-Level Flap Valve	4	
	Brake Fluid Level Switch	3-12L	
	Brake Wear Sensor; left	3-11M	
	Brake Wear Sensor; right	3-11M	
	Cigar Lighter Assembly	3-35K	
	Climate Control Amplifier	4	
	Console Switch Assembly; left	8	
	Console Switch Assembly; right	8	
	Cruise Control Amplifier	6	
	Defrost Relay	4	
	Delay Relay	3-12D	
	Dome Lamp; front (Mod. 450SLC)	3-24D	
	Door Switch; left	3-24G	
	Door Switch; right	3-25G	
	Fresh Recirculating Air Flap Valve	4	
	Glove Box Lamp Switch	3-35K	
	Hazard/Flasher Timer Assembly	3-19E	
	Horn Switch	3-22D	
T4	Ignition Changeover Valve	4	Under hood; right top front.
	Instrument Panel	3-21K	
	Interval Wiper Control	3-34J	
	Panel Lamps, Climate Control	3-21E	
	Parking Brake Switch	3-13L	
	Rear Window Heater Switch (Mod. 450SLC)	3-12D	

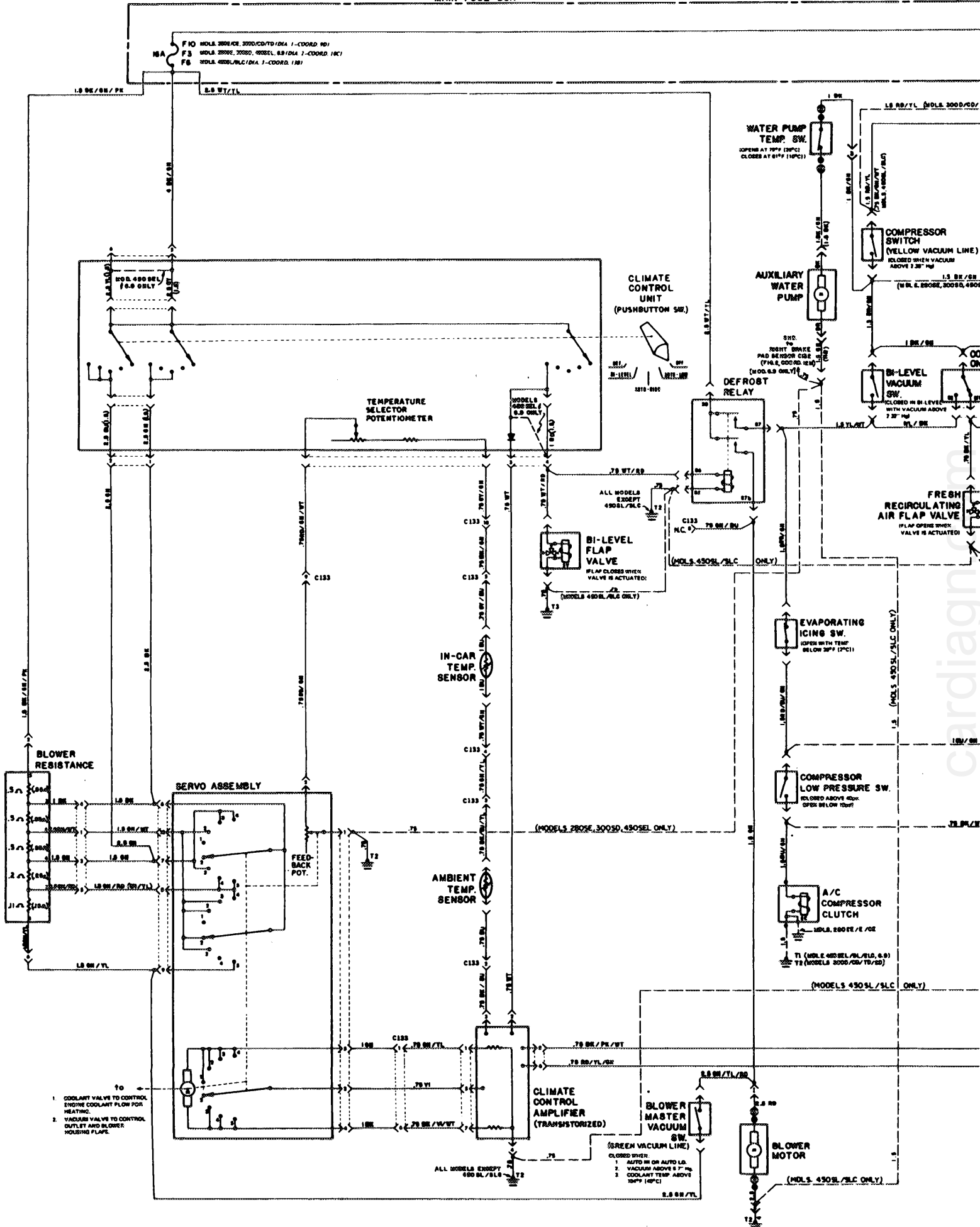
GROUND TERM. NO.	COMPONENT	FIG. NO. LOCATION	CAR LOCATION
T3 (cont.)	Seat Heater Controls	9	
	Sensor Plate Safety Switch	3-6C	
	Sliding Roof Switch (Mod. 450SLC)	10	
	Starter Lockout Switch	3-8D	
	Warning Device, Seat Belt	3-14E	
	Window Relay	8	
T4	Windshield Wiper Motor	3-32M	Inside car, in center console.
	Gear Shift Lamp	3-27J	
	Radio	3-37J	
T5	Battery	3-3D	Inside trunk right side, on trunk floor.
T6	Antenna Motor & Relay Assembly	7	Inside trunk left rear; below tail lamp assy.
	Back-Up Lamp; left	3-15E	
	Marker Lamp; left rear	3-25M	
	Stop Lamp; left	3-16E	
	Tail Lamp; left	3-25M	
	Turn Signal Lamp; left rear	3-19H	
T7	Back-Up Lamp; right	3-16E	Inside trunk, right side, behind fuel tank bulkhead.
	Fuel Pump	3-5C	
	Marker Lamp; right rear	3-26M	
	Rear Window Heater	3-11E	
	Stop Lamp; right	3-17E	
	Tail Lamp; right	3-26M	
T13	Turn Signal Lamp; right rear	3-20H	Under hood on Ignition Coil bracket
	Diagnostic Plug, pin 2	3-5G	

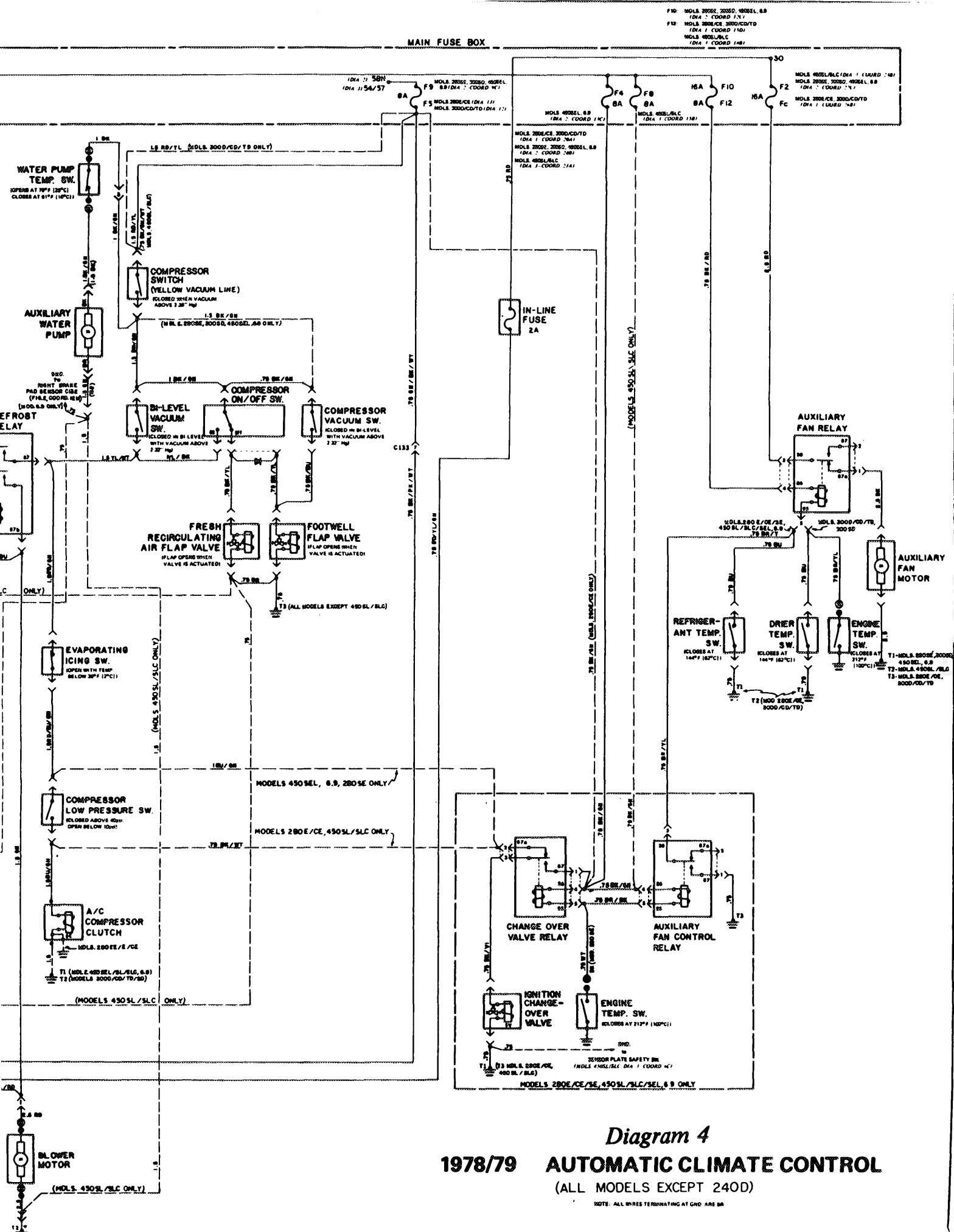






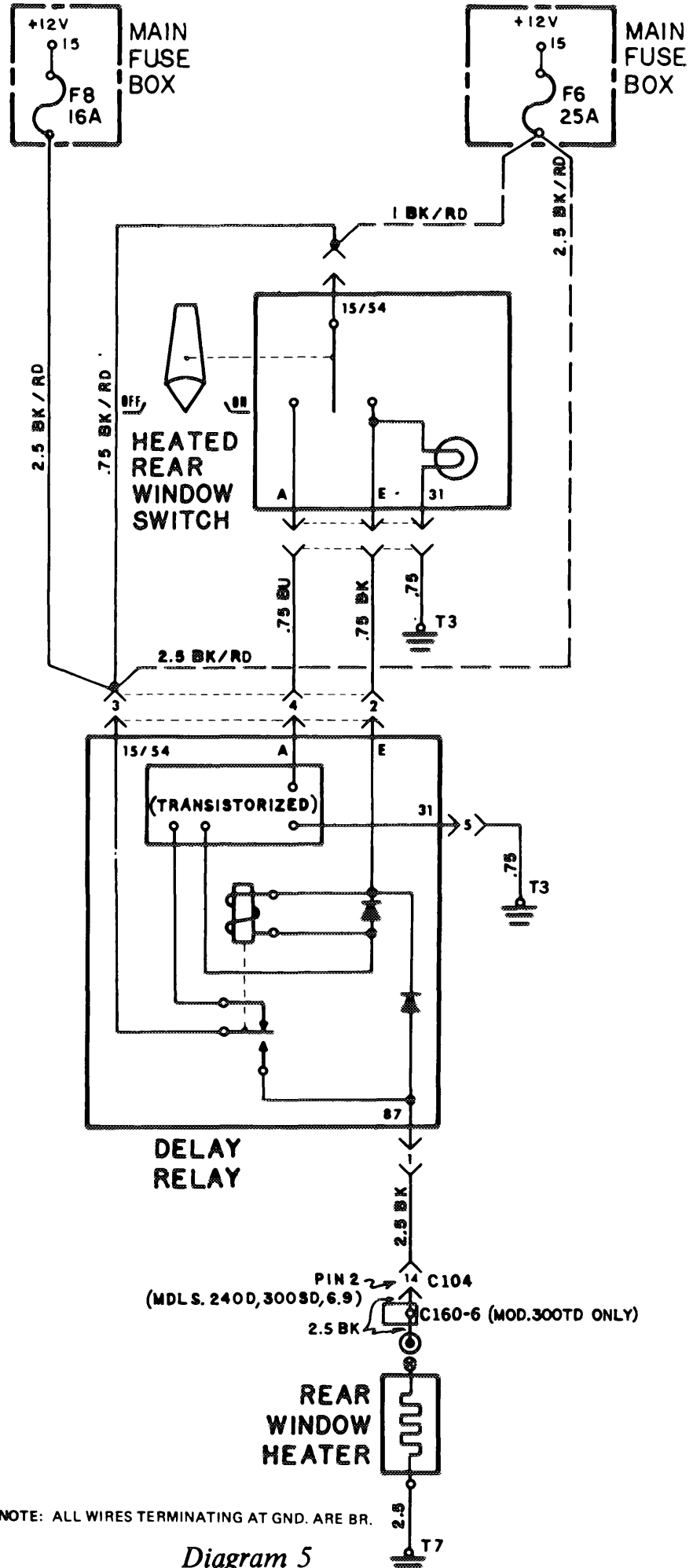
MAIN FUSE BOX





MDLS. 240D, 280E/CE,
300D/CD/TD
(DIA. 1 - COORD. 7D)

MDLS. 280SE, 300SD,
450SEL, 6.9
(DIA. 2 - COORD. 10C)



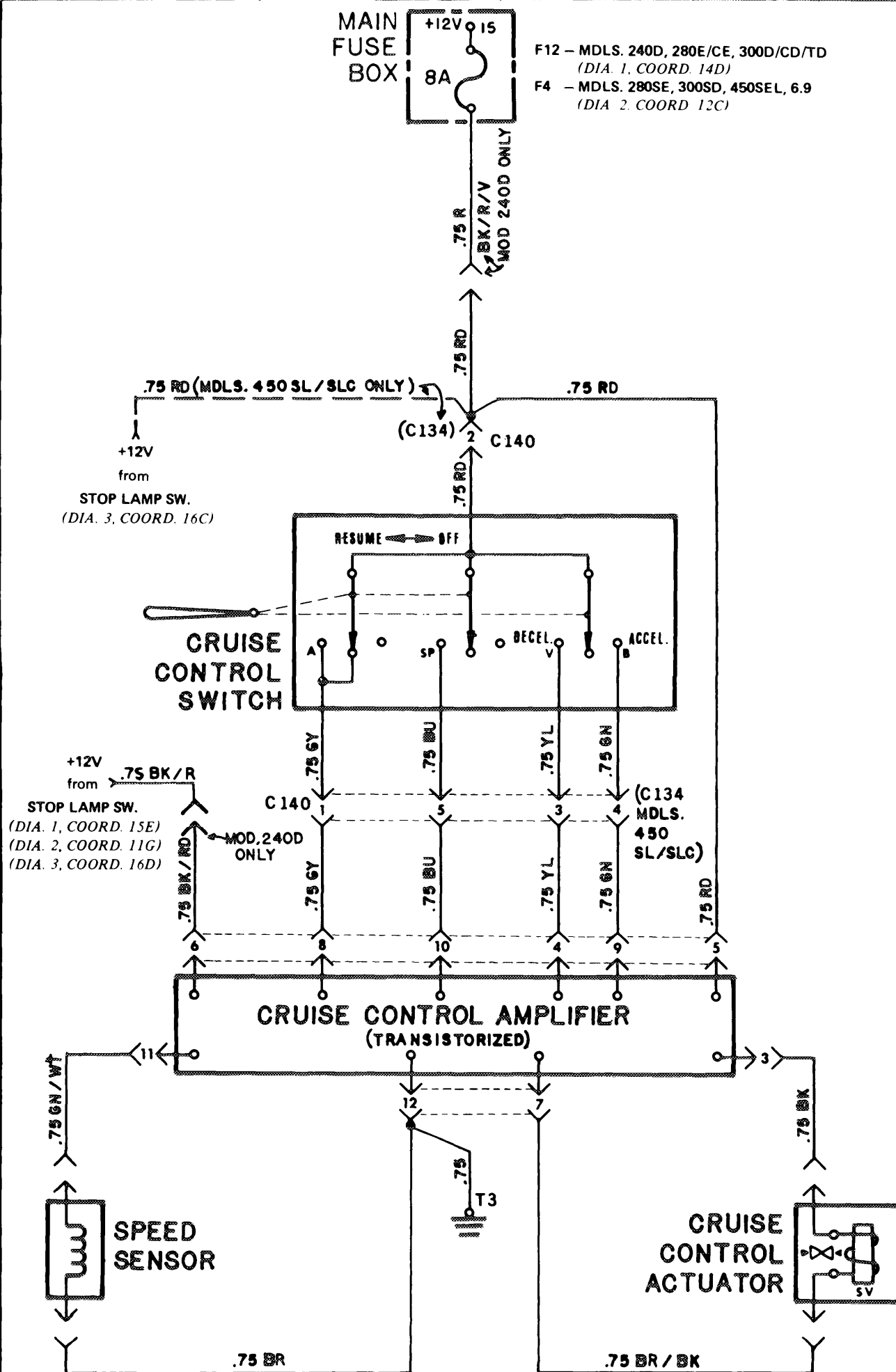


Diagram 6

NOTE: ALL WIRES TERMINATING AT GND. ARE BR.

MDLS. 240D, 280E/CE, 300D/CD/TD

(DIA. 1-COORD. 30F)

MDLS. 280SE, 300SD, 450SEL, 6.9

(DIA. 2-COORD. 10G)

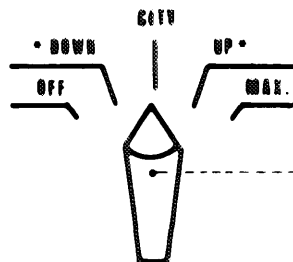
MDLS. 450SL/SLC

(DIA. 3-COORD. 37H)

RADIO

.75 BU/GY

*NOTE: MOMENTARY POSITIONS



**ANTENNA
CONTROL
SWITCH**

MDLS. 280SE, 300SD, 450SEL, 6.9

+12V
from

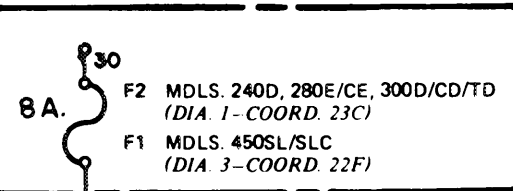
C135-1

(DIA. 2-COORD. 26C)

C104

1.5 RD

FUSE BOX



1.5 RD

C104
(MODELS 450 SEL/SL/SLC,
/ 6.9 ONLY)

1.5 RD

1.5 RD

1.5 RD

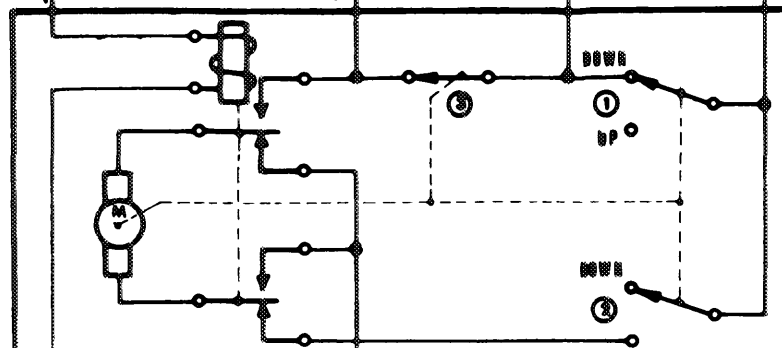
C135

.75 BU/GY

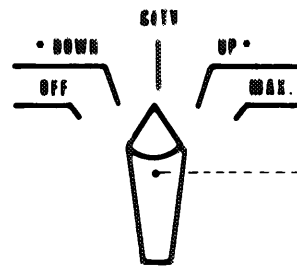
1.5 BU

1.5 BK

**ANTENNA
MOTOR
& RELAY
ASSEMBLY**



*NOTE: MOMENTARY POSITIONS



ANTENNA
CONTROL
SWITCH

ANTENNA
MOTOR &
RELAY
ASSEMBLY

75 BU/GY

C135

C135
1.5
1.5
Y6

1.5 BU

1.5 BK

1.5 BK

1.5 BK

1.5 RD

1.5 RD

C104
(MODELS 480 SEL/SL/SLC,
18.8 ONLY)

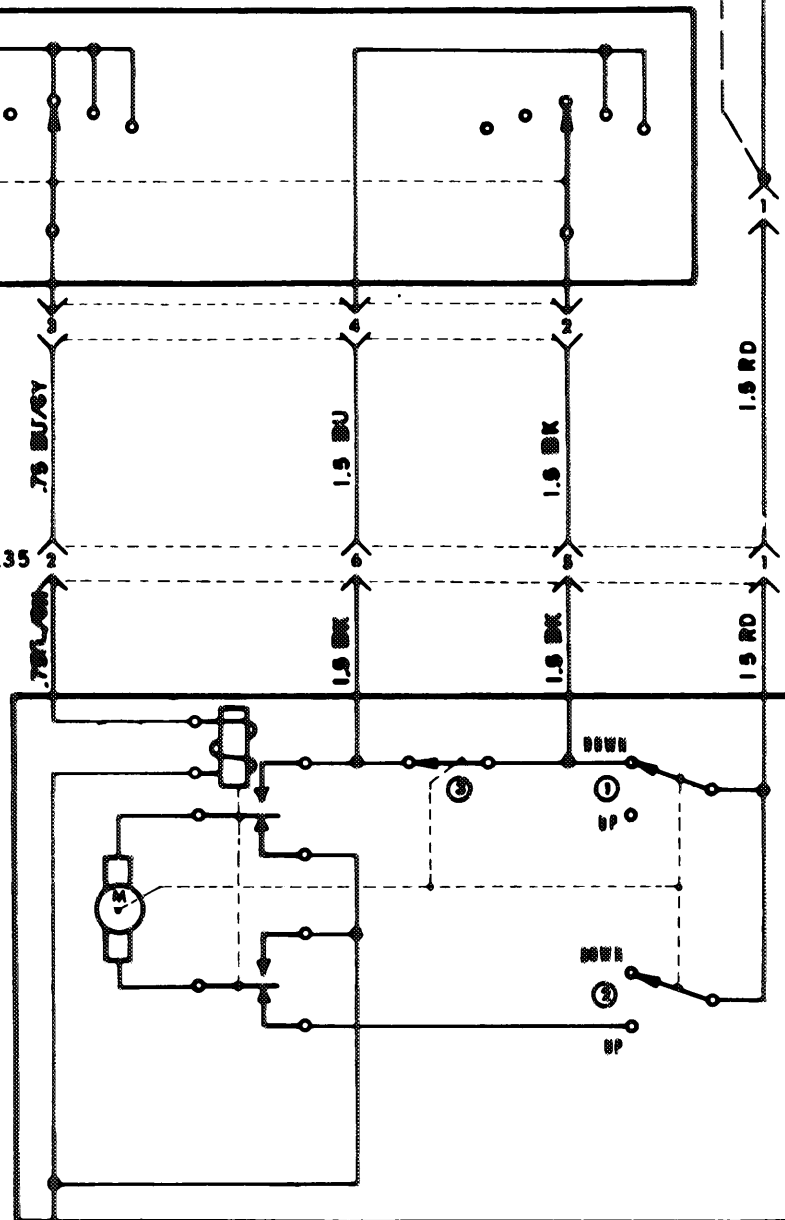
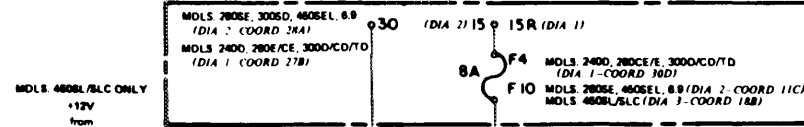


Diagram 7

1978/79 POWER ANTENNA

NOTE: ALL W'RES TERMINATING AT GND. ARE BR.

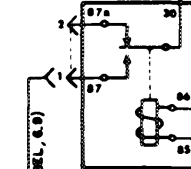
MAIN FUSE BOX



MOLS 460SL/SLC ONLY
+12V
from
C106
(DIA 3 COORD 3C)

4 RD (MOLS 460SL/SLC ONLY)

WINDOW RELAY



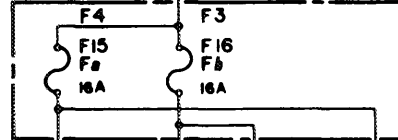
4 RD
(MOLS 460SEL, 6.9)

MOD. 300SD ONLY
+12V
from
IGNITION SW. TERM R
(DIA 2 COORD 10E)

.75 BK/VI (MOD. 300SD ONLY)

.75
T3

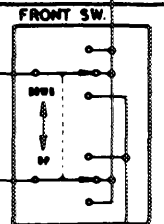
MAIN FUSE BOX



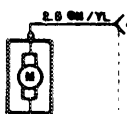
NOTE: FUSES F3 & F4: MOLS 460SL/SLC (DIA 1)
FUSES F15 & F16: MOLS 280SE, 300SD, 460SEL, 6.9 (DIA 2)
FUSES F8 & F9: MOLS 2400, 280E/CE, 3000/CD/TD (DIA 1)

C107

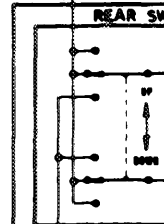
CONSOLE SWITCH ASSEMBLY



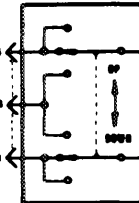
RIGHT
FRONT
WINDOW
MOTOR



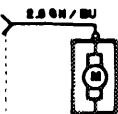
CONSOLE SWITCH ASSEMBLY



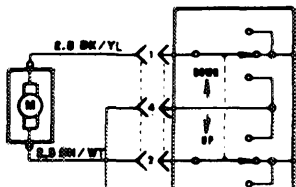
LEFT REAR WINDOW SWITCH



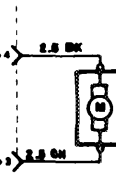
LEFT
REAR
WINDOW
MOTOR

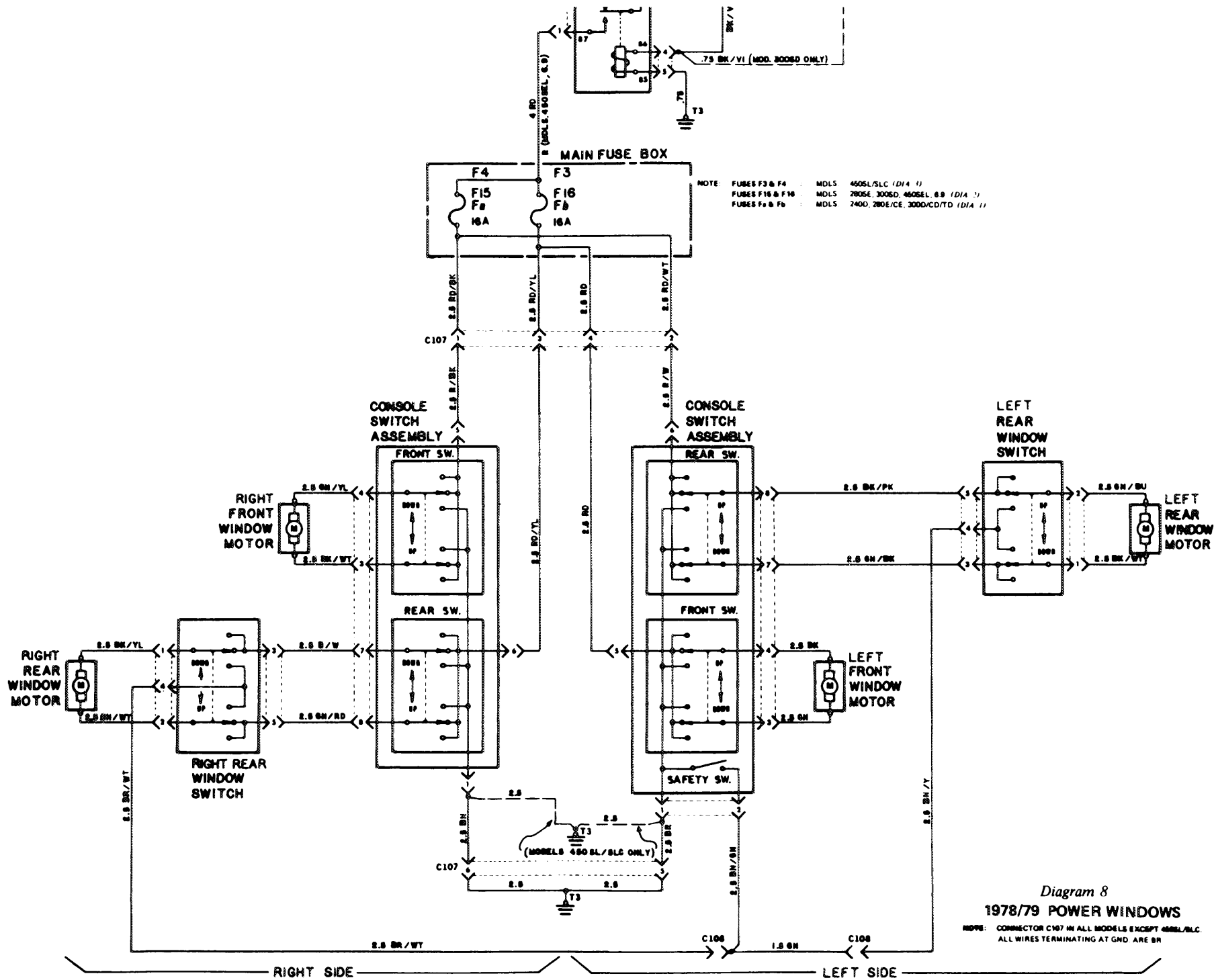


RIGHT
REAR
WINDOW
MOTOR



LEFT
FRONT
WINDOW
MOTOR

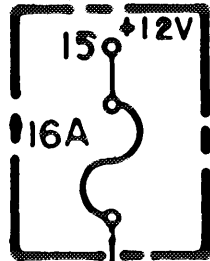






NOTE: ALL WIRES TERMINATING AT GND. ARE DR

MAIN FUSE BOX



- Fd — MDLS. 240D, 280E/CE, 300D/CD (DIA. 1-COORD. 8D)
- F10 — MDLS. 280SE, 300SD, 450SEL, 6.9 (DIA. 2-COORD. 11C)
- F5 — MDL. 450SLC (DIA. 3-COORD. 21B)

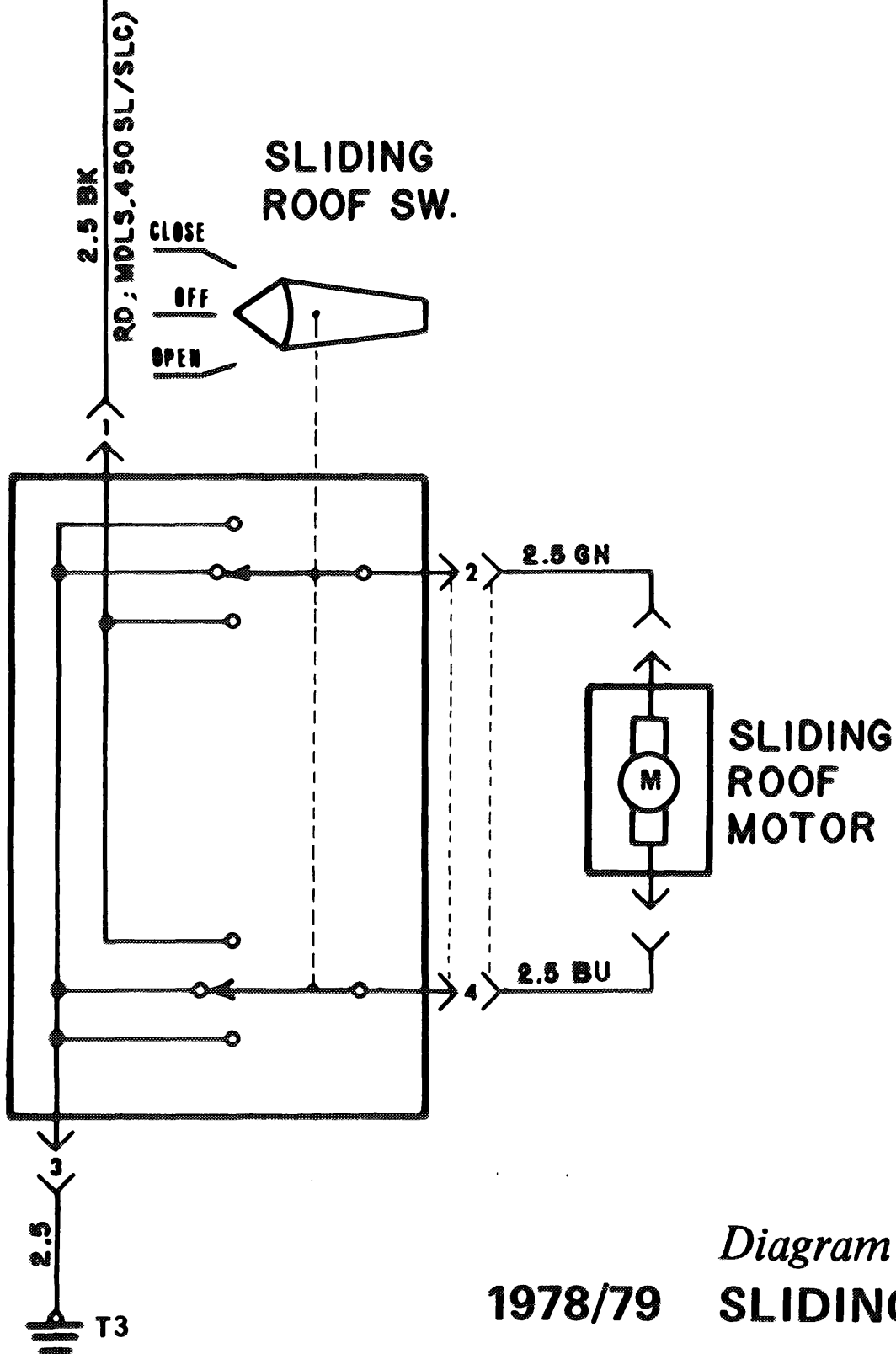


Diagram 10
1978/79 SLIDING ROOF

NOTE: ALL WIRES TERMINATING AT GND. ARE BR.

