### SECTION I - INTRODUCTION

The Electrical Troubleshooting Manual is a new method of presenting electrical information for Mercedes Benz electrical servicing. It has been carefully designed and prepared to help the technician reduce the time needed to locate and correct electrical malfunctions.

All electrical circuits in the 1974 Model 450 SE and 450 SEL vehicles are diagrammed on the five page Schematic/Wiring Diagram. Components in each of twenty one circuits are grouped together and arranged so that current flow through the circuit can be easily traced and understood. For example, on the first page of the Schematic/Wiring Diagram, at the left side, you will find all components associated with the Safety Interlock Circuit. In general, power input buses are drawn at the top of the sheet and ground buses near the bottom of the sheet. In addition to the Schematic/Wiring Diagram, the ETM includes a section defining symbols used, a list of circuits and components with their vehicle location, and photographs to help locate components and identify their terminals.

Notes are provided on the Schematic/Wiring Diagram to define component operation. For example, in the Safety Interlock Circuit, the door must be open for the switch contacts to be closed. Also, the ignition key must be turned to the Run or Run (No. 2) position and then back to off before the Ignition Lock Warning Switch is closed.

When troubleshooting, first check for proper voltage at the circuit location which can be reached in the shortest time with the least amount of disassembly. Accordingly, if the Warning Buzzer does not sound, check the door switch before checking the Ignition Lock Warning Switch.

It is important to understand what voltage to expect <u>before</u> making a measurement. The Schematic/Wiring Diagram is organized to make this understanding easier. For example, when the Kickdown Switch is <u>closed</u>, one expects voltage at the Automatic Transmission Solenoid Valve because the switch connects the plus bus to the Solenoid Valve. On the other hand, when the Horn Switch is <u>closed</u>, one does not expect voltage at the Horns because closing the switch connects ground to the Horns.

There are only two power buses used on the 450 SE/SEL Schematic/Wiring Diagram, the "Battery Bus" and the "Start-Run Bus". The Battery Bus is connected directly to the Battery and is "hot" or energized at all times. Refer to page 1, D18 and trace this circuit from the Battery to the Battery Bus. The Start-Run Bus is energized only when the ignition key is turned to the start or run (No. 2) positions. Refer to page 1, C11 and trace power from the Battery Bus through the Ignition Switch to the Start-Run Bus. Notice that all circuits connect to the buses at the fuse box unless otherwise noted.

All switches and other components are shown as they exist when the vehicle is at rest. At rest includes doors closed, seats unoccupied, engine off, shift lever in park, temperature stabilized at 20C/59F, key out of ignition, light switch off, etc. The manner in which each switch or other component operates is noted on the Schematic/Wiring Diagram.

When a component is shown in its entirety in one location on the Schematic/Wiring Diagram, it is outlined with a solid heavy line. When a component is shown in more than one location, it is outlined with a dash-dot heavy line. For example, the AC/Starter relay shown on page 1, C8 is outlined with a dash-dot line because only the relay coil is shown at C 8. The remaining portions of the relay are shown on page 1, B20 and page 4, C11.

All wiring between components is shown exactly as it actually exists on the vehicle. Wiring internal to complicated components (for example, the Ignition Switch or the Light Switch) has been modified to aid in understanding electrical operation. In these cases, multiple pole, multiple throw switches are shown. To properly use the Schematic/Wiring Diagram, mentally position all switch poles to the same position and then trace the current paths through the component. It is important to remember that the switches actually function precisely as shown when measured from the switch terminals. For example, the Ignition Switch (page 1, B10 and page 2, B15) is drawn as a four pole switch, each pole with four throws or positions, one each corresponding to the actual four Ignition Switch positions, Off, 1, 2, and Start. By mentally positioning all four poles to,say, Start, you see the only circuits through the Ignition Switch that are completed when the switch is actually in the Start position are terminal 30 to 50 and terminal 30 to R.

Relays are installed in any one of several locations during manufacture. The wires leading to the relay connector are gathered together and banded with a "key" number for relay identification. Notice in Section III, figure 4, the Fuel Pump Relay is identified as key 1. Although the relay position may vary from vehicle to vehicle, the key number remains the same for a given relay function.

Circuits which involve transistorized parts require special troubleshooting procedures. For example, if the Safety Interlock Circuit (page 1, D5) does not function, first check all circuits external to the relay logic unit. Using a voltmeter, check for power at terminals 7 and 8. Ground terminal 1 and with the Ignition Key in the Start position, check that the AC/Starter Relay picks up. Using an ohmmeter, check that the Seat Switches, Buckle Switches and Starter Lockout Switch, terminals 2, 5, 6, 9, 10 on the Logic Relay connector, all show shorts to ground when the switches are operated. If all external circuits operate properly, the fault lies within the transistorized Relay Logic Relay and it is replaced.

Notice that the same fuse may be shown in several different locations on the Schematic/Wiring Diagram. Check the fuse designation list in Section II to determine all circuits energized by any one fuse.

Notice that all grounded wires are insulated with solid brown insulation.

Systematic troubleshooting should proceed through the following five steps:

- 1st— Verify the customer complaint. Check circuit operation yourself.
- 2nd— Locate the faulty circuit on the Schematic/Wiring/Diagram. Use Section III, the Component/Circuit Locator List.
- 3rd— Analyze the circuit. By studying the circuit it is usually possible to isolate the possibly failed components to one or two—without having made any measurements on the vehicle. For example, with a verified complaint that the right rear and left front power windows do not operate, see page 3, E4, 6. An examination of the Schematic/Wiring Diagram shows that both inoperative motors are powered through fuse F15. You can easily check this fuse with a minimum of vehicle disassembly.
- 4th- Correct the failure.
- 5th— Check for proper circuit operation.

### **SECTION II - STANDARD SYMBOLS AND DEFINITIONS**

### 1. STANDARD SYMBOLS

The following electrical symbols are used in the Electrical Trouble-shooting Manual.

Temperature switch	① <b>/</b>
Capacitor	+
Clutch, electric	EC
Coil	
Component, shown complete in one position on Diagram	

Component, shown in more than one position on Diagram	
Connector	FEMALE MALE
Diode	#
Fuse	<b>\$</b>
Electric gauge	
Ground or chassis	<u></u>

Ground shown elsewhere	
Light bulb	♦
Motor, permanent magnet	
Motor, series field	<b>₹</b>
Spark gap	*
Relay (contacts as shown with no voltage applied to coil)	4 3 ↑ 85 ↑ 30

Relay coil, time delay	
Relay coil, two windings	
Switch, momentary (Returns to off position when released)	<b> </b>
Resistor, fixed value	*
Resistor, variable value	*
Screw terminal	0

Solenoid valve	S
Switch, normally closed	
Switch normally open	
Switch, one pole, two positions	
Switch, two poles, two positions (Dashed line indicates the two poles move together)	// 1 1 1
Transistor	

#### 2. WIRE CODES

Wire size and insulation color is shown on the Schematic/Wiring Diagram as an aid in locating specific wires. Wire size, (crossection area) is shown in millimeters square, 0.5, 0.75, 1.0, 1.5, 2.5, 4.0, 6.0, 10, and 35. The first color shown on the Diagram is the base or overall insulation color. Second and third colors, if any, designate striping. Solid brown insulation is used exclusively for wires that are grounded.

The color code used in this Manual is somewhat different from the code used in Mercedes Benz documents prepared in Germany. All color codes used in the Manual are two letter, selected to closely relate to the English word they represent. Notice that lower case letters are used.

CODE USED IN ETM	GERMAN EQUIVALENT
wt	ws
	gn
br	br
yl	ge
gy	gr
pk	rs
bu	ы
rd	rt
bk	SW
iv	el
nt	nf
vi	vi
	wt gn br yl gy pk bu rd bk iv nt

#### Example:

Wire designation: 1.5 gr/rd Wire size: 1.5 mm<sup>2</sup>

Insulation base color: gray Insulation strip color: red

Turn Signals

#### 3. FUSE DESIGNATION AND AMPERAGE

Fuse 1 (8A) Fuse 2 (16A)

Clock Air conditioning thermostat
Four way flasher Horns

Light switch

Radio antenna
Reading light
Rear dome light
Fuse 3 (16A)

Trunk light Air conditioner blower motor

Fuse 4 (8A) Backup lights Brake lights Brake system warning lights Change-over valve Cold start circuit Cruise control Fuel gauge Fuel pump Fuel warning light Glove box light Kickdown switch Cold start valve Temperature gauge Tach Turn signal Window relay

Fuse 5 (8A)

Lights—right tail, right front marker, left rear marker, license plate, right rear marker, gear shift light

Fuse 6 (8A) Cigar lighter Hot start device

Fuse 7 (8A) Lights, left tail, left front marker Fuse 8 (16A)
Auxiliary fan
High beam flasher
Window washer
Window wiper

Fuse 9 (8A)

Fuse 10 (16A)
Heated Rear window
Sliding roof

Fuse 11 (8A) Headlight, left low beam

Fuse 12 (8A)
Headlights, right high beam, high beam indicator

Fuse 13 (8A) Headlights, left low beam, fog lights

Fuse 14 (8A) Headlight, right low beam

Fuse 15 (16A)
Window motors, right front, left rear

Fuse 16 (16A)
Window motors, left front, right rear

Fuse (2A) Radio

### 4. RELAY KEY DESIGNATION AND LOCATION

Key Number	Function	Location
1	Fuel pump	fuse box
2	Cold Start Valve	fuse box
3	Fuel Injection	under dash pass. side
4	A/C Starter	fuse box
5	Change-over Valve	left kick panel
6	Auxiliary fan	left kick panel
7	•	·
8	Aux. Fan Cutout	left kick panel
9		μ
10	Windows	left kick panel
	Hot start	under dash, pass. side, console side

#### 5. CONNECTOR LIST

C101 Backup lights/kickdown switch C102 Impulse trigger (Trigger points)	C107 Electric window circuit C108 Electric window circuit
C103 Fuel injection circuit	C109 Reading light
C104 Rear harness circuits	C110 Rear dome light
C105 Charge-start circuit (3 terminal)	C111 Hot start circuit
C106 Combination switch	C112 Wiper motor

# SECTION III - COMPONENT/CIRCUIT LOCATOR LIST

In Section III, electrical components are grouped by the electrical circuit in which they are used. Components that are used in more than one circuit are listed in each. For example, the AC/Starter relay is listed in four circuits: the Air Conditioning circuit, the Charge-Start circuit, the Fuel Injection circuit, and the Safety Interlock circuit. Following each component is the vehicle location where that component is found. Figure references for a Locator Photograph and a Terminal Identifier Photograph are given in those cases where such information will help in troubleshooting.

#### Circuits designated include:

	Schematic Location
Air Conditioning Control	4, D12
Backup Light Circuit	4, D19
Brake Light Circuit	4, D20
Charge-Start Circuit	1, D17
Control Lights	2, G10
Cruise Control	4, D23
Fuel Injection System	5, D10
Glove Box Light	2, D1
Heated Rear Window	5, D19
Horns	3, D24
Ignition Circuit	1, D25
Instrument Cluster Circuits	3, D21
Interior & Trunk Lights	3, D15
Kickdown Circuit	3, D10
Light Switch	2, D15
Radio	1, D11
Safety Interlock Circuit	1, D6
Sliding Roof	2, C25
Túrn Signals	2, C5
Windows	3, D6
Windshield Wiper/Washer	4, D5

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se box	4	8
gine, front right		
gine, right front		
strument cluster		
יי ר	ansmission, left side se box  nder dash, drivers side  se box  ngine, front right ngine, right front strument cluster ont of battery grd. strap ngine, left rear nder battery plate	se box  Inder dash, drivers side  I-7  Isse box Ingine, front right Ingine, right front Isstrument cluster Ingine ont of battery grd. strap

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	LOC. PHOTO SEC. 4	
CONTROL LIGHTS (2, G10)	CONTROL LIGHTS (2, G10)			
AC thermostat lights Blower switch light Flasher switch light Heater control lights Instrument cluster lights Rheostat, dimmer				
CRUISE CONTROL/ BRAKE LIGH	TS (4, D20)			
Amplifier Brake light switch Brake lights	under dash, driver's side under dash, top brake pedal			
Cruise control switch Fuse 4 Speed sensor Throttle actuator	top center console fuse box under dash, driver's side right fender, near hood spring		7	
C104 (12 terminal)  FUEL INJECTION SYSTEM (5, D1	under dash, driver's side  0)	1-7	4	
		4	8	
AC/Starter relay (key 4) Air temperature sensor	fuse panel air cleaner inlet	19	8	
Cold start valve	engine, top	7-1		
Cold start valve relay (key 2)	fuse box	4	8	
Electronic control unit	right kick panel	24-1		
Fuel injection relay (key 3)	under dash, passenger side	3-1	8	
Fuel injection valves	engine, top			
Fuel pump	behind right rear axle	23-2		
Fuel pump relay (key 1)	fuse box	4	8	
Fuse 4	fuse box		7	
Fuse 6	fuse box			
Hot start relay	under dash pass. side, against console			
Impulse trigger	distributor			
Intake manifold pressure sensor	left cowl (engine comp.)	20-3		
Thermal time switch	engine, top center	7-5		

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	LOC. PHOTO SEC. 4
FUEL INJECTION SYSTEM (continued)			
Throttle valve switch Water temperature sensor C102 (6 terminal) C103 (6 terminal) C104 (12 terminal) C 111 (2 terminal)	rt. side throttle housing engine, top engine, top front under dash, passenger's side under dash, driver's side	22-2 7-4 17-1 1-7	2 2 4
GLOVE BOX LIGHT (2, D1)			
Fuse 4 Glove box light Glove box light switch	fuse box glove box glove box		7
HEATED REAR WINDOW (5, D19	9)		
Delay relay Fuse 10 Heater element Switch	under dash, driver's side fuse box rear window center console	1-2	7
HORNS (3, D24)			
Fuse 2 Horns	fuse box		7
Horn switch C106 (14 terminal)	under dash, driver's side		5
IGNITION CIRCUIT (1, D25)			
Diagnostic test plug Distributor Ignition coil Ignition switching unit Spark plugs	left of distributor engine, top front engine, front left left fender	16-1 6-2 6-1	

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	LOC. PHOTO SEC. 4
IGNITION CIRCUIT (Continued)			
TDC Sensor  No. 1 cylinder sensor  0.4 ohm pre-resistor  0.6 ohm pre-resistor	engine front engine front left fender left fender	8-4 9-1 6-3 6-4	
INSTRUMENT CLUSTER CIRCUI	TS (3, D21)		
Brake fluid switches Brake system warning light Clock Fuel gauge Fuel tank sensor Fuse 1 Fuse 4 Low fuel warning light Parking brake switch Tach Temperature gauge Temperature gauge sensor C104 (12 terminal)	below 1st aid kit well fuse box fuse box top of parking brake engine, top right rear under dash, driver's side	1-7	7 7
INTERIOR & TRUNK LIGHTS (3,	D15)		
Fuse 1 Left front door switch Left rear door switch Reading light Rear dome light Rear dome light Right front door switch	fuse box lower switch console		7
Right rear door switch Trunk light/switch C104 (12 terminal) C109 (2 terminal) C 110 (2 terminal)	under dash, driver's side under dash, driver's side under dash, driver's side		4

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	TERM. PHOTO SEC. 4
KICKDOWN CIRCUIT (3, D10)			
Fuse 4 Solenoid valve Switch	transmission, right side under accelerator pedal	12-1	7
LIGHT SWITCH CIRCUIT (2, D15	5)		
Fuse 1 Fuse 5 Fuse 7 Fuse 8 Fuse 11 Fuse 12 Fuse 13 Fuse 14 Fog light switch High beam indicator High/low/pass switch Ignition switch  Left fog light Left front marker Left head lights Left rear marker Light switch Left tail light License plate Right fog light Right front marker Right head lights Right rear marker	fuse box light switch, pull handle instrument cluster combination switch		7 7 7 7 7 7 7
Right tail lights C104 (12 terminal) C105 (3 terminal) C106 (14 terminal)	under dash, driver's side under battery plate under dash, driver's side	1-7	4 5

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	TERM. PHOTO SEC. 4
RADIO (1, D11)			
Antenna Fuse Radio	right front fender fuse box (in line)	4-5	
SAFETY INTERLOCK CIRCUIT (1	, D6)		
AC/Starter relay (key 4) Buzzer, warning Door switch Driver's buckle switch Driver's seat switch Fasten seat belt light Ignition lock warning sw. Passenger's buckle switch Passenger's seat switch Seat belt/starter logic relay Starter lockout switch	fuse box under dash, driver's side upper switch  ignition switch  under dash, driver's side transmission, left side	4 13-2 15 14 15 14 13-4 11-1	8 16
SLIDING ROOF CIRCUIT (2, C25)			
Fuse 10 Motor Switch	fuse box near left trunk hinge		7
TURN SIGNALS (2, C5)			
Flasher relay Flasher switch Fuse 1 Fuse 4 Left front turn light Left rear turn light	under dash, driver's side console fuse box fuse box	1-1	21 7 7

COMPONENT	VEHICLE LOCATION	LOC. PHOTO SEC. 3	TERM. PHOTO SEC. 4
TURN SIGNALS (Continued)			
Left turn signal			
Right front turn light			
Right rear turn light			
Right turn signal			
Turn signal switch	combination switch	1	
C104 (12 terminal)	under dash, driver's side	1-7	4
C106 (14 terminal)	under dash, driver's side		5
WINDOW CIRCUITS (3, D6)			
Fuse 4	fuse box		7
Fuse 15	fuse box		7
Fuse 16	fuse box		7
Left front motor	door		
Left rear motor	door		
Left rear switch	door		
Left side switch group	console		
Right front motor	door		
Right rear motor	door		
Right rear switch	door		
Right side switch group	console	İ	
Relay (key 10)	left kick panel	2	8
Safety switch	console		
C107 (6 terminal)	console		2
C108 (2 terminal	console		
WINDSHIELD WIPER/WASHER (4, D5)			
Fuse 8	fuse box		7
Interval wipe relay	under dash, driver's side	1-5	11
Washer-pump motor	below battery		
Washer switch	floorboard		
Wiper motor	under dash, behind console		
Wiper switch	combination switch		
C106 (14 terminal)	under dash, driver's side		5

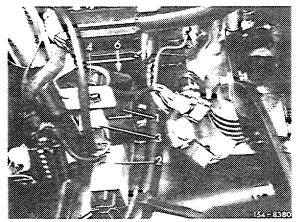


Fig. 3-1

- 1-Turn signal flasher relay
- 2-Heated rear window delay relay
- 4-Reading light delay relay
- 5-Interval wipe relay
- 7-C104

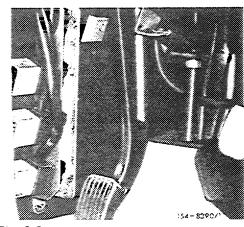


Fig. 3-2

- Key 8—Auxiliary fan separation relay
- Key 5—Change-over valve relay
- Key 6-Auxiliary fan relay
- Key 10-Window relay

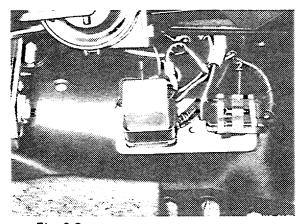


Fig. 3-3

- 1-Fuel injection relay (Key 3)
- 2—Antenna power connector

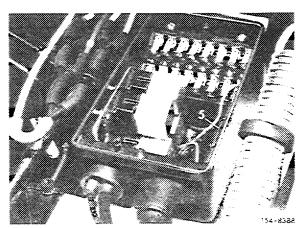


Fig. 3-4

- Key 1-Fuel pump relay
- Key 2—Cold start valve relay
- Key 4-AC/Starter relay
- Key 5—Radio fuse

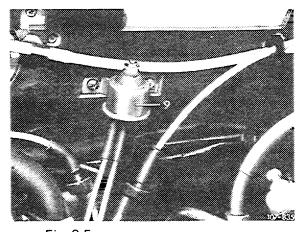


Fig. 3-5 9—Change-over valve

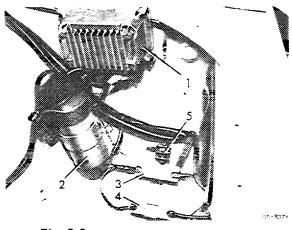


Fig. 3-6

- 1—Ignition switching unit
- 2-Ignition coil
- 3-0.4 Ohm pre-resistance
- 4–0.6 Ohm pre-resistance

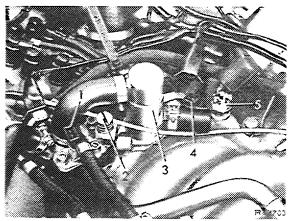


Fig. 3-7

- 1—Start valve (plug disconnected)
- 2-Idle speed adjusting screw
- 3-Additional air valve
- 4-Water temperature sensor
- 5-Thermal time switch

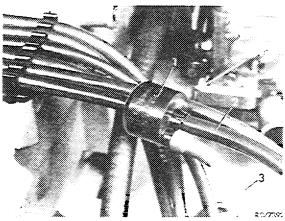


Fig. 3-9

- 1—Cylinder No.1 firing impulse transmitter
- 2-Cylinder No.1 ignition cable
- 3—Cable to Diagnostic plug

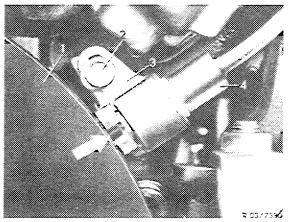


Fig. 3-8

- 1-Vibration damper
- 2—Fastening screw
- 3-Top holding bracket
- 4-TDC transmitter

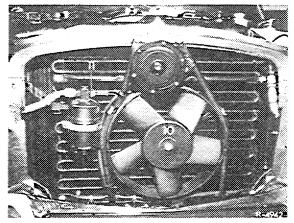


Fig 3-10

- 10-Auxiliary fan
- 11—Refrigerant temperature switch 62C/144F

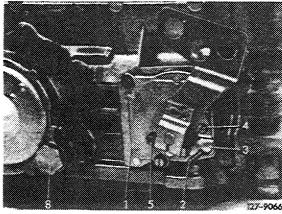
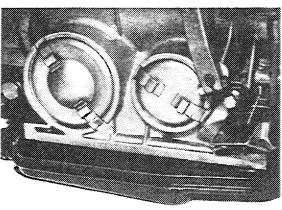


Fig. 3-11 1—Starter lockout switch/backup light switch



:27~8963

Fig. 3-12 1—Kickdown solenoid valve

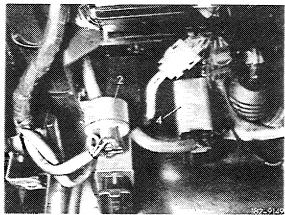
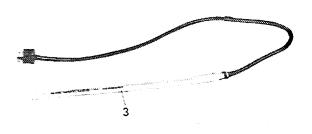


Fig. 3-13
2-Buzzer, warning
4-Seat belt starter logic relay



R 54/720:

Fig. 3-14 Seat contact switches

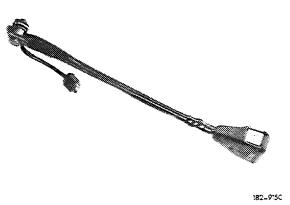


Fig. 3-15 Belt buckle switch

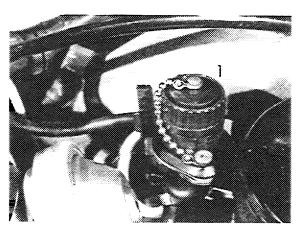


Fig. 3-16 1—Diagnostic plug

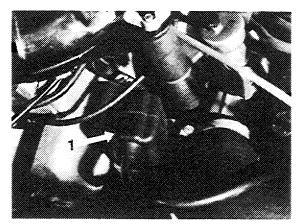


Fig. 3-17 1-C106 Impulse trigger connector

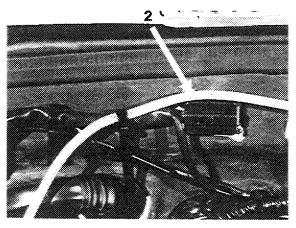


Fig. 3-18
2—Blower motor pre-resistors connector

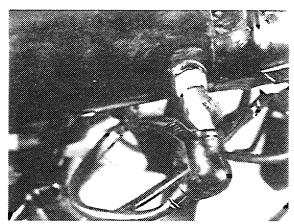


Fig. 3-19
Air temperature sensor

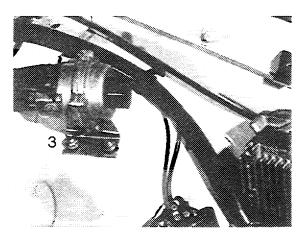


Fig. 3-20 3—Intake manifold sensor



Fig. 3-21 2—Engine temperature switch, 100C/212F

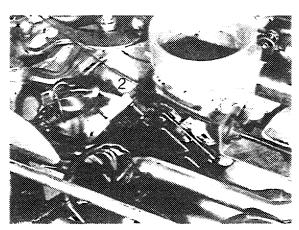


Fig. 3-22 2—Throttle valve switch

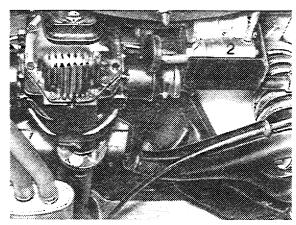


Fig. 3-23 2—Fuel pump

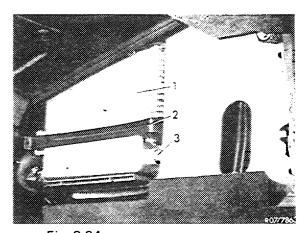
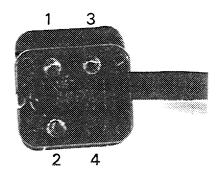


Fig. 3-24 1—Electronic control unit 2—Spring clip

3-Idle speed adjust screw

# SECTION IV - COMPONENT TERMINAL IDENTIFIER

	Figure Number
Blower motor pre-resistors	4-19
Blower motor switch	4-18
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Relay	4-8
Seat belt/starter logic relay	4-10
Window switch group	4-9
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Windshield wiper interval relay	4-11



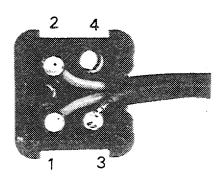
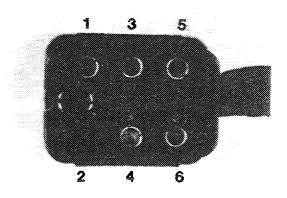


Fig. 4-1 Connector, 4 terminal



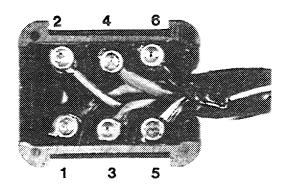
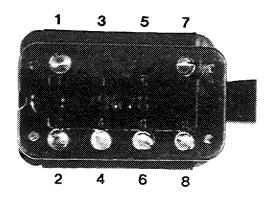


Fig. 4-2 Connector, 6 terminal



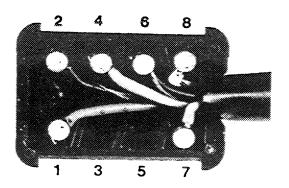
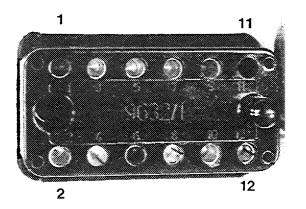


Fig. 4-3 Connector 8 terminal



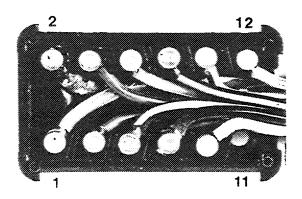
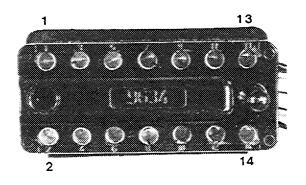


Fig. 4-4 Connector, 12 terminal



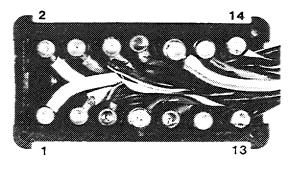
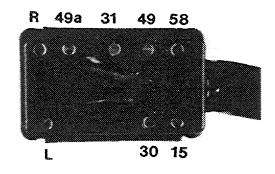


Fig. 4-5 Connector, 14 terminal



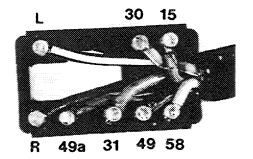


Fig. 4-6 Connector, flasher switch

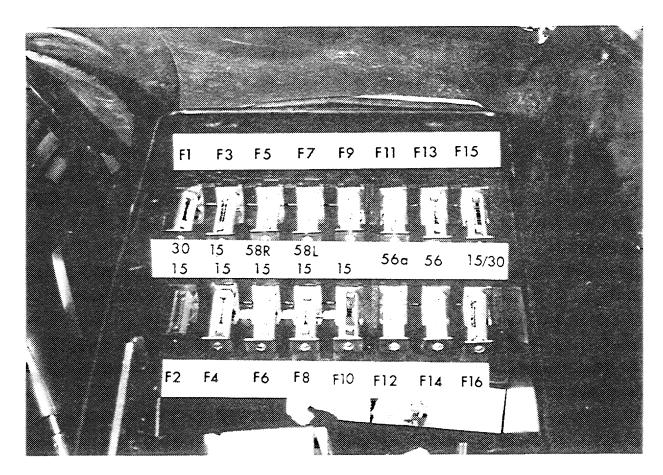
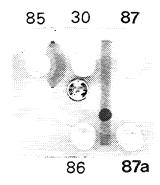


Fig. 4-7 Fuse box



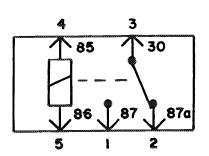


Fig. 4-8 Relay

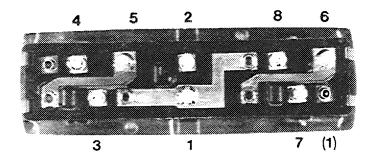


Fig. 4-9
Window switch group
(the 1 terminal has two alternate positions)

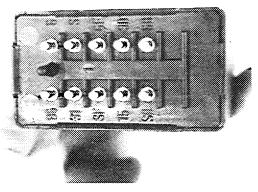


Fig. 4-10 Seat belt starter logic relay

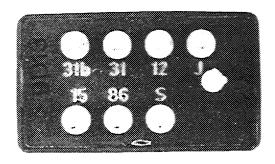


Fig. 4-11 Windshield wiper interval relay

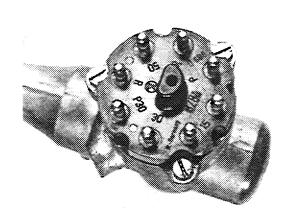


Fig. 4-12 Ignition switch

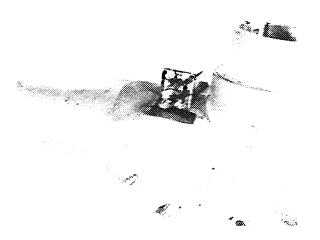


Fig. 4-13 Ignition lock warning switch

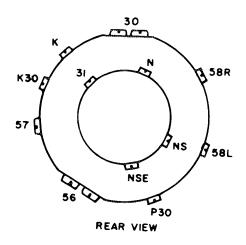


Fig. 4-14 Light switch

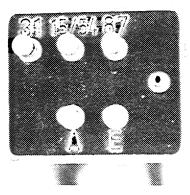


Fig. 4-15 Heated rear window delay relay

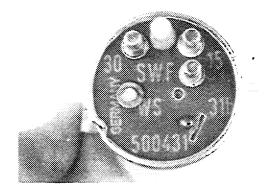


Fig. 4-16 Buzzer, warning

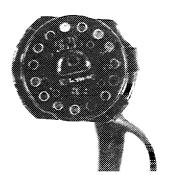


Fig. 4-17
Connector, 15 terminal (instrument cluster)

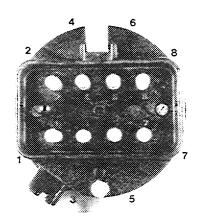


Fig. 4-18 Blower motor switch

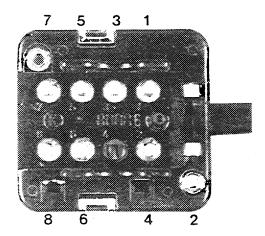


Fig. 4-19 Blower motor pre-resistors

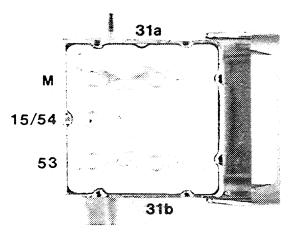


Fig. 4-20 Windshield washer switch

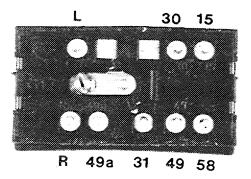


Fig. 4-21 Flasher switch