

General Information

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General information

Introduction

The circuit diagrams contained in this Chapter have been devised to provide both a theoretical and practical approach to fault diagnosis.

With the exception of Section M3 (which provides details of the way in which power is distributed through the electrical system), each section contains details of individual circuits or systems. Also contained within each section is information regarding the location of components.

The electrical system is 12 volt negative earth. All voltages quoted in this Chapter are direct current (dc) unless otherwise specified.

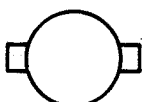
If when using the diagram component and connector codes, any doubt exists concerning the description or location of items connected with the bodywork of the car, reference should be made to Chapter S, Section S1.

Information on the electrical circuits/components of the air conditioning system and emission control systems are contained in Chapter C and Chapter U respectively.

Component identification

The more commonly used components of the electrical system are represented on the wiring diagrams by the following symbols.

Motor



Diode

Current flow left to right



Diode

Current flow right to left



Zenner diode



Switch



Micro-switch



Switch (3 position)



Float switch



Pressure switch
(fridge)



Temperature switch
(open position)



Temperature switch (closed position) or thermally operated circuit breaker



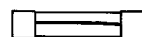
Headlamps sequencing relay



Relay



Bulgin type fuse



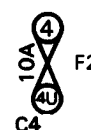
20A Fuse rating
8 Fuse number



Littel or Buss type fuse



4,4U Cable connections
10A Fuse rating
C4 Fuse number
F2 Fuseboard 2



Solenoid



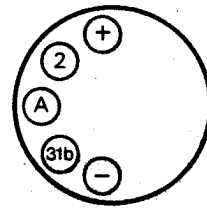
Cigar lighter



Resistance



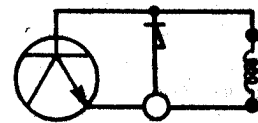
Speedometer



Lamp, single filament



Speed signal generator



Lamp, dual filament



Potentiometer



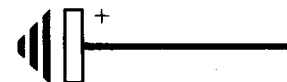
Earth point



Buzzer



Suppressor



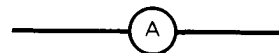
Heating element



Cable plug/socket connection



Splice connection



Battery



Cable identification

Cables are plastic covered and can be identified using the following codes.

B	Black	P	Purple
G	Green	R	Red
K	Pink	S	Slate
LG	Light green	U	Blue
N	Brown	W	White
O	Orange	Y	Yellow

Battery master switch



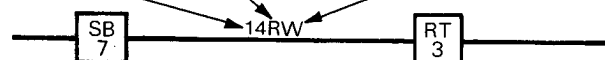
Transistor



Horn



Cable size Main colour Trace colour



Connector code Connection

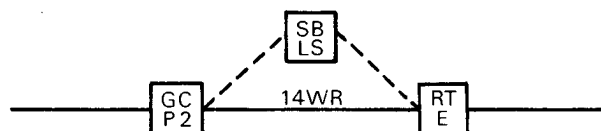
ACU MDL	Automatic air conditioning main distribution loom plug and socket	LA B	Left-hand 'A' post body plugs and sockets
ACU S2	Automatic air conditioning switch plug and socket 2	LA D	Left-hand 'A' post door plugs and sockets
ACS PS	Automatic air conditioning servo plug and socket	LC PS	Luggage compartment plug and socket
BL CU	Boost limiter control unit	LF SP	Left-hand front door solenoid plug and socket
BP WL	Brake pressure and courtesy light delay unit plug and socket	LHL P2	Left-hand headlamps 2-way plug
BU P or BU PS	Speed control bellows unit plug and socket	LHL P3	Left-hand headlamps 3-way plug
CA P	Coolant level amplifier plug	LI LP	Left-hand interior lamps loom plug and socket
CB C	Circuit breaker board connection	LL LP or LL PS	Left-hand luggage compartment lid plug and socket
CB LT	Circuit breaker board Lucar terminal	LL SP	Luggage compartment lid plug and socket
CB 1 and CB 2	Circuit breaker board plugs	LL TB	Luggage compartment lid terminal block
CS PS or CS UP	Combined sensor plug and socket (Engine coolant and washer fluid)	LM PS	Left-hand front door mirror plug and socket
DI P	Digital instruments plug	LM P1 to LM P4	Lock micro-switch plugs and sockets
DM P1 to DM P4	Door micro-switch plug and socket	LM SP	Left-hand mirror switch plug and socket
EV PS	Engine compartment valance loom plugs and sockets	LMH PS	Left-hand mirror heater plug and socket
FB C	Fuseboard connection	LR D5	Left-hand rear door 5-way plug and socket
FB 1 to FB 5	Fuseboard plugs	LR D7 or LR DP	Left-hand rear door 7-way plug and socket
FS PS or FL PS	Fog lamps switch plug and socket	LR SP	Left-hand rear door solenoid plug and socket
GA P1 or GC P1	Gearchange actuator plug and socket 1	LS LP	Left-hand seat loom plug and socket
GA P2 or GC P2	Gearchange actuator plug and socket 2	LS SP	Left-hand seat switch plug and socket
HC SP	Horns control switch plug and socket	LT G to LT M	Left-hand toeboard sockets
HL SP	Hood lift switch plug and socket	LT C	Left-hand toeboard connections
HW PS	Headlamp wiper motor plug and socket	MD B1 to MD B4	Main diode board plugs
HW SP	Hazard warning switch plug and socket	MD LS	Main distribution loom socket
IL DU or IL P	Interior lamps delay unit plug	OC PS	Oil check switch plug and socket

PL DS	Panel lamps dimming switch plug and socket
RA B	Right-hand 'A' post body plugs and sockets
RA D	Right-hand 'A' post door plugs and sockets
RC PS	Radio/cassette choke plug and socket
RF SP	Right-hand front door solenoid plug and socket
RHL P2	Right-hand headlamps 2-way plug
RHL P3	Right-hand headlamps 3-way plug
RI LP	Right-hand interior lamps loom plug and socket
RL LP	Luggage compartment lid right-hand plug and socket
RM PS	Right-hand front door mirror plug and socket
RM SP	Right-hand mirror switch plug and socket
RMH PS	Right-hand mirror heater plug and socket
RR D5	Right-hand rear door 5-way plug and socket
RR D7 or RR DP	Right-hand rear door 7-way plug and socket
RR SP	Right-hand rear door solenoid plug and socket
RS LP	Right-hand seat loom plug and socket
RS SP	Right-hand seat switch plug and socket
RT A to RT F	Right-hand toeboard sockets
RT CR	Radio/cassette tape play unit change-over relay plugs
RT C	Right-hand toeboard connections
SB C	Switchbox connector
SB LS or SB LP	Seat belt loom plug and socket
SB PS	Speaker balance loom plug and socket
SB 7	Switchbox 7-way plug and socket
SB 9	Switchbox 9-way plug and socket

SC PS	Steering column plugs and sockets
SCU PS	Speed control unit plug and socket
SD LP	Speaker distribution loom plug and socket
TP PS	Tape play unit plug and socket
WC PS	Washer and coolant level control unit plug and socket
WF AP	Washer fluid level amplifier plug
WM PS	Windscreen wiper motor plug and socket
WS PS	Windscreen wiper switch plug and socket

Left-hand drive cars

When the cable destinations for left-hand drive cars differ slightly from those of right-hand drive cars, the changes are denoted by a dotted line.



Identification of fuses and fuseboards

From VIN *SCAZS0006GCX13860* (excluding VIN *SCAZN0004FCH14000* to VIN *SCAZN0009FCH14025*) a new type of fuseboard is fitted incorporating Littell or Buss fuses (these fuses are not interchangeable with Bulgin type fuses).

Therefore when working to a wiring diagram or component location showing the earlier Bulgin type of fuse, reference must be made to figure M1-1.

Toeboard connections

Ensure that the engine compartment toeboard connections are kept clean and are protected against the ingress of water by the application of a damp-proofing agent such as WD40.

Test equipment

It is essential that only recommended test equipment is used, otherwise damage may occur to an electrical component/circuit.

In order to take electrical measurements of either voltage, current, or resistance a suitable meter is required. If a multi-meter is being used it is important that before connecting the meter to the component/circuit being tested the correct range is selected on the meter. Before using an ohmmeter on a component/circuit, **always** disconnect the battery.

Although a 12 volt test lamp may be used for fault finding, **never** use a test lamp on circuits that contain electronic components, since damage to these components may result.





Circuits controlled	Bulgin fuse number 	Littel or Buss fuse number and fuseboard identification 	Fuse rating (amps)	Circuits controlled	Bulgin fuse number 	Littel or Buss fuse number and fuseboard identification 	Fuse rating (amps)
Cellular telephone when fitted	—	A1 – F2	4A	Rear window demister and mirror heaters	11	B4 – F3	20A
Cellular telephone when fitted	—	A2 – F2	10A	Reverse lamps, stoplamps, speed control, headlamp wash	10	B3 – F3	20A
Interior lamps	1	A6 – F2	10A	Direction indicators, headlamp flash, fuel door, horns control	14	B2 – F3	20A
Radio, panel illumination, ACU control	20	B1 – F2	10A	Cigar lighters, clock, aerial, fuel door	7	C4 – F3	20A
Radio amplifier when fitted	19	B2 – F2	10A	Engine cooling fan	2	C1 – F3	20A
Starter, ignition, fuel pump	27	B3 – F2	10A	Engine cooling fan	9	C1 – F3	20A
Instruments and warning lamps	28	B4 – F2	10A	Wipers and washers	5	B1 – F3	20A
ACU control	8	B5 – F2	10A	Spare	—	B6 – F3	20A
Spare	—	B6 – F2	10A	Fuel pump	13	B5 – F3	20A
L.H. Tail lamp	15	C1 – F2	10A	Horns	3	C3 – F3	20A
R.H. Tail lamp	22	C2 – F2	10A	Fog lamps when fitted	12	C6 – F3	20A
Parking lamps, number plate lamps, W.L. dim control	16	C3 – F2	10A	Air horns when fitted	4	C5 – F3	20A
L.H. Dip beam	24	C4 – F2	10A	Hazard warning	6	C2 – F3	20A
R.H. Dip beam	25	C5 – F2	10A				
Spare	—	C6 – F2	10A				
Spare	—	A6 – F3	20A				

Fig. M1-1 Fuse and fuseboard identification

Guides to electrical diagnosis

1. Always try to verify the exact nature and history of the complaint. If the operation of a particular circuit is not fully understood, a malfunction may be reported, when in fact, the system is operating correctly.
2. Familiarize yourself with the operation of the circuit to be tested. Also the lay-out of the components in that circuit. Make reference to the appropriate section within this Chapter.
3. Always consider the symptoms and then decide on the most advantageous and convenient point at which to commence your investigation. The unnecessary removal of items of trim is costly and damage could result.

Fitting electrical accessories

When fitting electrical accessories it is recommended that they are wired from the fuseboard and that the fuse is of the correct size and rating. Also, it is essential that the correct size of cable is used.

Spare fuse positions are available on the fuseboard. They are designed to take fuses of either 10 amperes (small size fuse) or 20 amperes rating. **Do not under any circumstances replace an existing fuse with one of a larger size or higher rating.**

If the accessory incorporates an in-line fuse it is essential that the in-line fuse is of a lower rating than that on the fuseboard.

When wiring an accessory into an existing circuit, reference should be made to the wiring diagram applicable to that circuit, to ensure that the circuit will not become overloaded.

Special precautions

Extreme caution must be exercised, when work is carried out on the electrical system.

Whenever possible the gear range selector lever should be placed in the Park position, the gearchange isolator (located on the fuseboard) and ignition key removed, the battery master switch turned to the OFF position, and the battery disconnected.

Failure to observe the following precautions could cause damage to the electronic components in the system.

Always ensure correct polarity when making cable connections.

Never disconnect the battery when the engine is running.

Where reference is made in this Chapter to the use of voltmeters or continuity testers **never** use generator type meters.