Section M7

Interior lighting
Contents

Printed in England

May 1977
T.S.D. 4200

Section M7

Interior lighting

Introduction

This section details the interior lamps delay circuit and all interior lamps with their associated switches.

Interior lamps delay circuit

When any door is opened, the door switch activates the delay unit and thereby provides an earth path for the coil of the delay relay which is then energised. Relay contacts C2 to C1 and C2 to C4 are made which connects the interior lamps to a live feed.

The delay unit remains active for 7 seconds after the doors are closed and then the relay is de-energised thereby switching off the lamps.

Interior lamps delay unit - To test

Connect the delay unit as shown in Fig. M54 and momentarily connect terminal 3 to 12v+, the test lamp should illuminate for between 6 and 8 seconds.

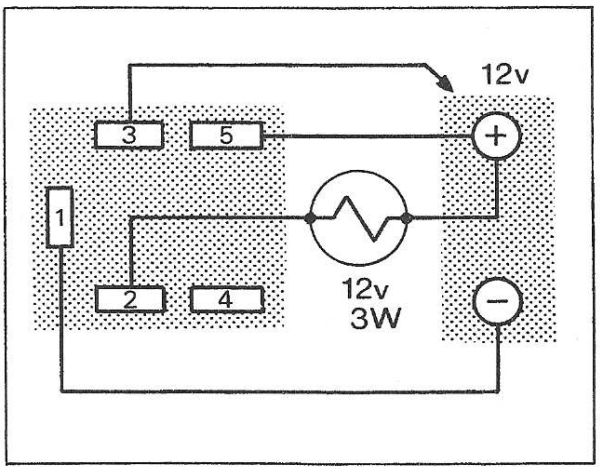


Fig. M54 Delay unit test circuit

Interior lamps delay relay - To test (Fig. M55)

1. Disconnect the cables from C1, C4 and W2.
2. Ensure that the purple cable to C2 and W1 is 'live'.
3. Connect a 12v3w test lamp from C4 to earth and then from C1 to earth, the lamp should remain extinguished.
4. Connect W2 to earth (energising the relay).
5. Again connect the test lamp from C4 to earth and C1 to earth, the lamp should be lit in each case.

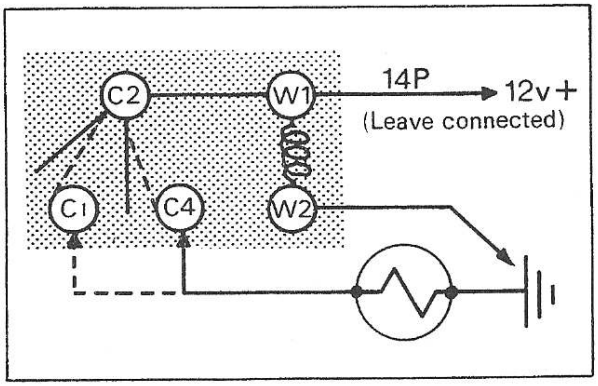


Fig. M55 Relay test circuit

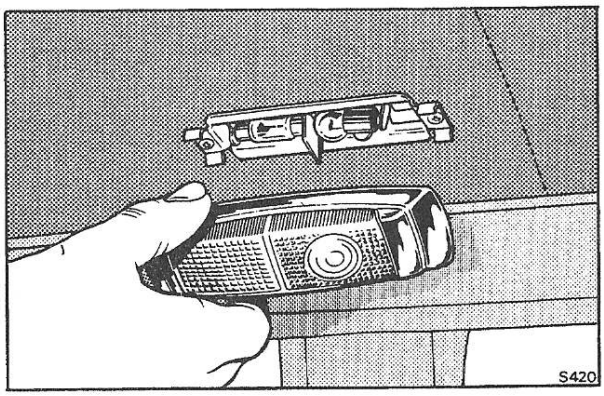


Fig. M56 Interior lamp

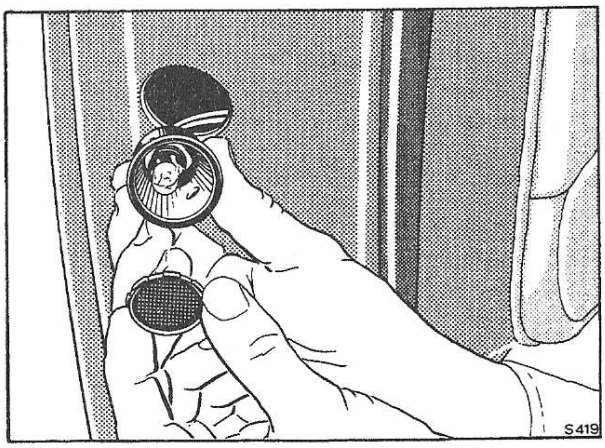


Fig. M57 Door edge warning lamp

Switches and lamps

The switches are shown in Fig. M58. When fitting a switch, ensure that the switches operate correctly.

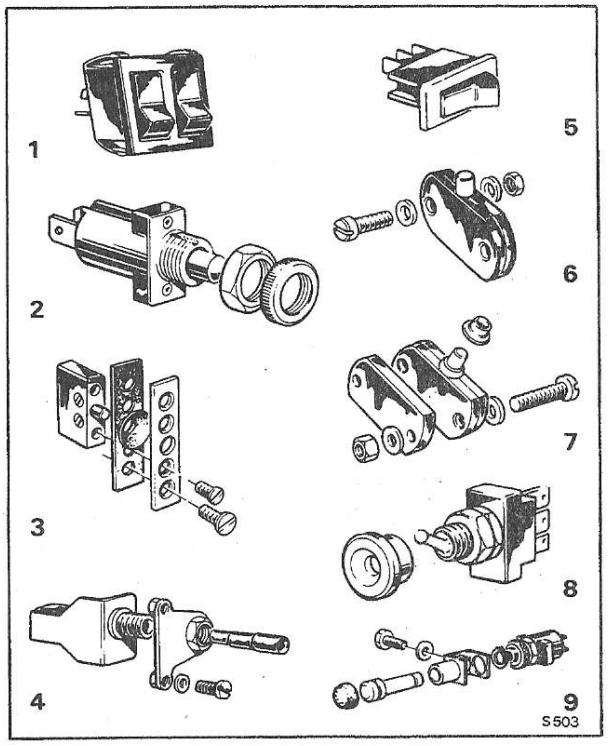


Fig. M58 Interior lighting switches

1 Rear lamp switches - Camargue only
2 Fuseboard switch - Not Camargue
Cubby box switch - Camargue only
3 Door switch - all cars
4 Map lamp switch - Camargue only
5 Rear interior switch - Not Camargue
6 Boot lamp switch - All cars
7 Bonnet lamp switch - All cars
8 Map lamp switch - Not Camargue
9 Cubby box switch - Not Camargue

Fault finding procedure

With the exception of a blown fuse, the faults on the interior lighting circuit can be divided into two groups, one when the lamps will not illuminate and the other when they will not extinguish.

Lamp(s) will not illuminate

Refer to fault diagnosis chart Fig. M59 after testing each suspect bulb.

Lamp(s) will not extinguish

This is usually caused by a faulty switch although it could occur if the lamp is inadvertently connected to any live feed.

To isolate the fault, remove the purple cable from the associated switch, if the lamp is extinguished then the switch is faulty but if the lamp remains lit, then the connection to a live feed must be traced.

If the fault is in the door-operated courtesy lamps, remove the purple cable from one door switch and close the remaining doors. If the lamps are extinguished **after 7 seconds**, the switch is faulty but if the lamps remain lit, repeat the procedure with another switch.

Fuse 'blown'

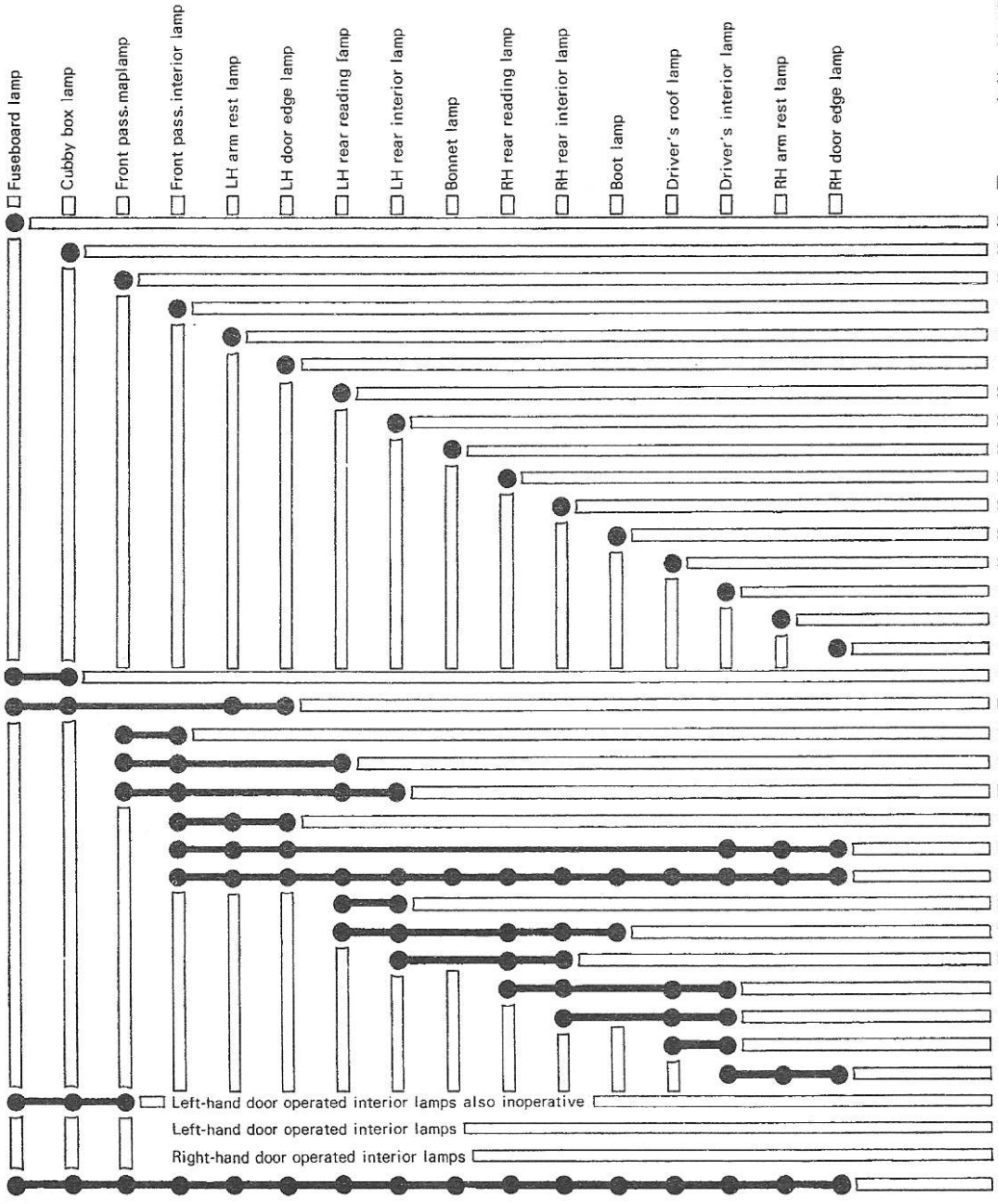
Replace the fuse. If the fuse 'blows' again, the fault must be isolated by disconnecting the purple cable from all switches and the delay unit and relay. Replace the fuse and replace the purple cables to each switch and inspect the fuse each time. (Refer to wiring diagram).

Section M7

Interior lighting

Fault finding chart
Fig. M59

Interior lighting



Before using this chart, verify that the faulty bulbs are not broken.

How to use this chart

1. Determine which bulb or combination of bulbs are not working.
2. Scrutinise each horizontal line of the chart to determine which combination of spots corresponds to the bulbs not working.
3. Trace along the horizontal line to find the possible cause of the fault.
4. Refer to the wiring diagram to obtain the connector pin numbers and component identification.

Possible cause

Switch 102. 14PR cable. 14P cable.
Switch 103. 14PR cable. 14P cable. 14B cable from 84 to 83.
Switch 104. 14PU cable. 14P cable. LB9. 14B cable from 85 to 86.
14PW cable from LB9 to 86. 14B cable from 86 to 89.
14PW cable from LB9 to 87. 14B cable from 87 to 68 to LB9 to 55.
14PW cable from LB9 to LD5 to 88. 14B cable from 88 to 115 to LD5 to 55.
Switch 107. 14PY cable from 107 to 89.
Switch 107. 14PG cable from 107 to 90. 14PG cable from 107 to 90. 14PG cable from 90 to WD7 to 93.
Switch 108. 14P cable from RTA to 108. 14PR cable from 108 to 91. 14B cable from 91 to 52.
Switch 111. 14PY cable from 111 to 92.
Switch 111.
Switch 112. 14P cable from WD7 to 112. 14PR cable from 112 to 94.
Switch 113. 14P cable to 113. 14PU cable from 113 to RB9 to 95.
14PW cable from RB9 to 96. 14B cable from 96 to 95.
14PW cable from RB9 to 97. 14B cable from 97 to 69. 28B cable from 69 to RB9 to 36. RB9.
14PW cable from RB9 to RD7 to 98. 14B cable from 98 to 114. 28B cable from 114 to RD7 to 36.
14B cable from 83 to 55.
Earth connection 55.
14B cable between 86 and 89.
14B cable between 89 and 90.
Earth connection 10. 14B cable between 90 and 10.
14PW cable between relay 101 and LB9.
Delay unit 100 or relay 101. 14B cable from 100 to 36. Poor earth 36.
14P cable from fuse (pin 3).
Switch 107. 14P cable from 107 and WD7.
14P cable between RB9 and WD7.
Switch 111. 14P cable from WD7 to 111.
14B cable from 92 to 44. Poor earth connection 44.
14B cable from 92 to 93.
14B cable from 93 to 95.
14PW cable from relay 101 contact C1 to RB9.
14P cable from fuse (pin 5).
14PS cable from LB9 to delay unit 100.
14PS cable from RB9 to delay unit 100.
Fuse blown or no live feed to fuse on 28N cable.

● Indicates bulb not lit

●—● Combination of bulbs not lit

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Component location Right-hand drive
Fig. M60

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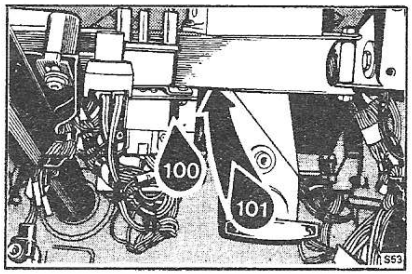
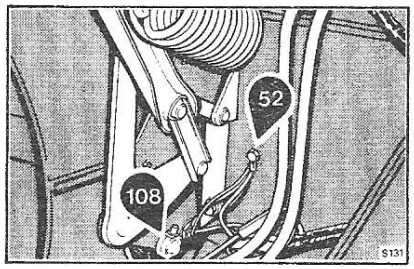
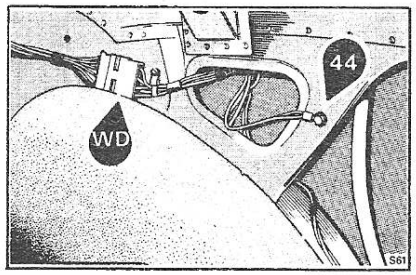
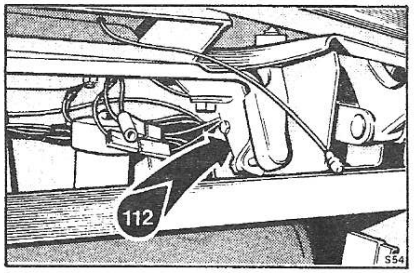
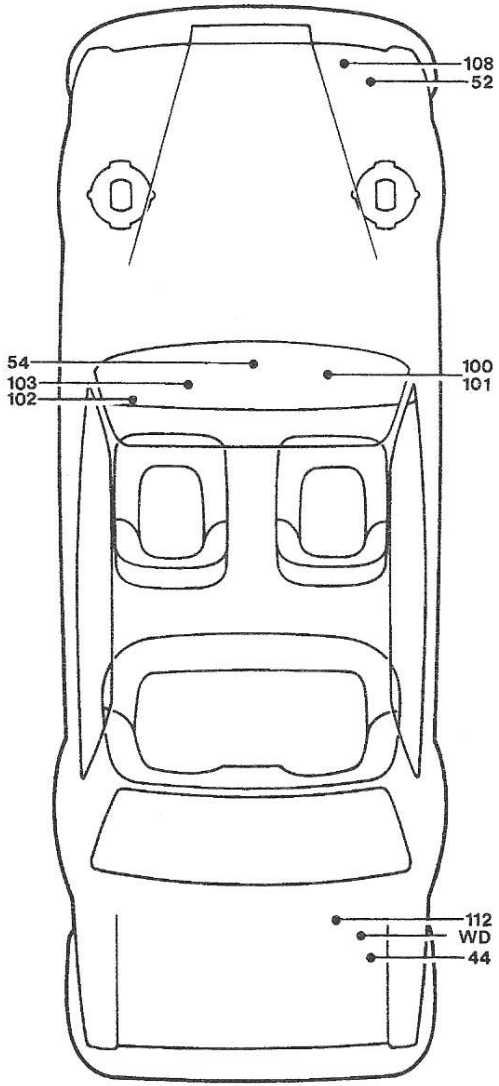










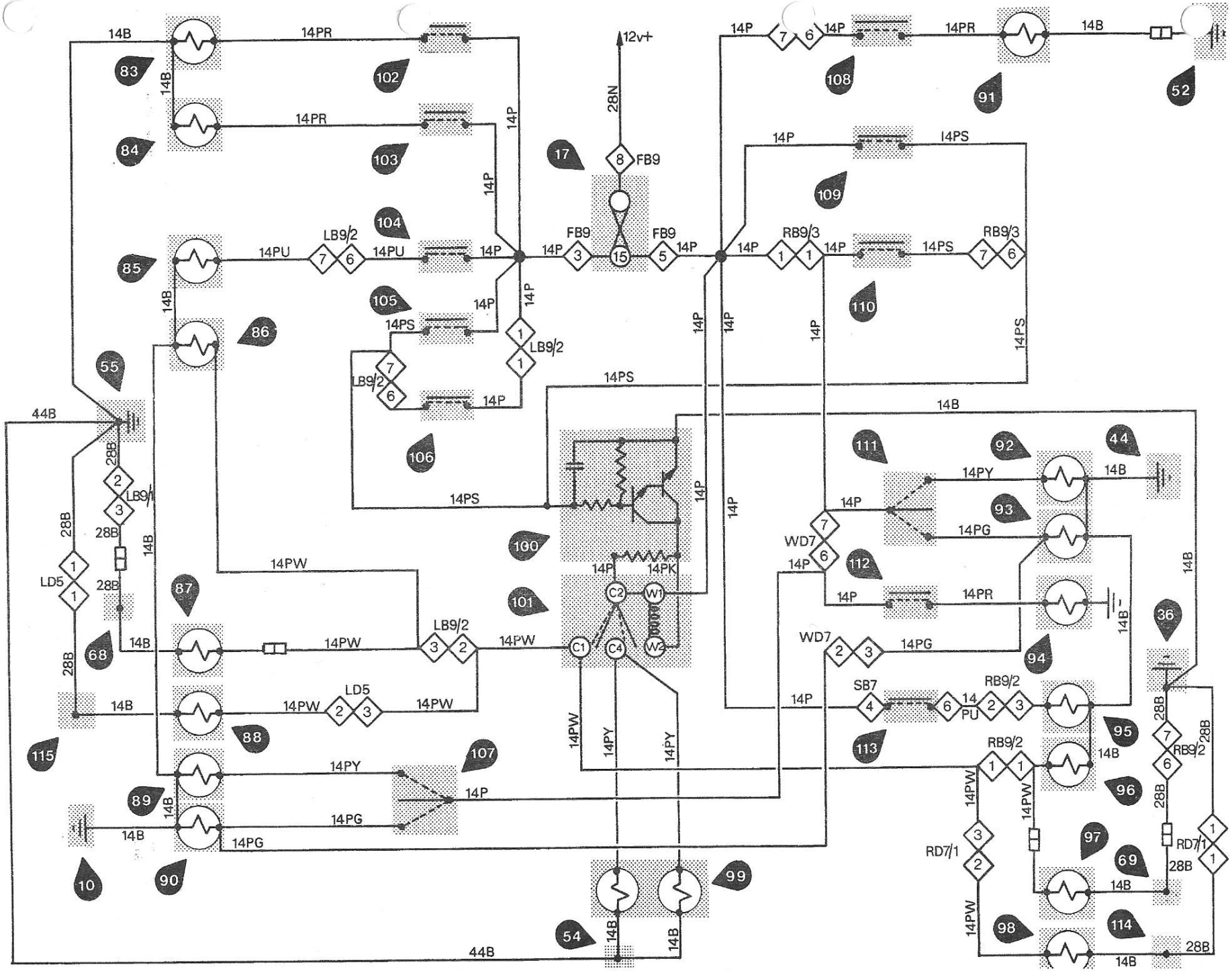
Components

10	Left-hand boot earth
17	Fuseboard
36	Right-hand 'A' post earth
44	Right-hand boot earth
52	Right-hand front earth
54	Instrument panel earth
55	Left-hand 'A' post earth
68	Left-hand rear cigar lighter
69	Right-hand rear cigar lighter
83	Fuseboard lamp
84	Cubby box lamp
85	Front passenger's map lamp
86	Front passenger's interior lamp
87	Left-hand armrest lamp
88	Left-hand door edge lamp
89	Left-hand rear reading lamp
90	Left-hand rear interior lamp
91	Bonnet lamp
92	Right-hand rear reading lamp
93	Right-hand rear interior lamp
94	Boot lamp
95	Driver's roof lamp
96	Driver's interior lamp
97	Right-hand armrest lamp
98	Right-hand door edge lamp
99	Seat belt warning lamps
100	Interior lamps delay unit
101	Interior lamps delay relay
102	Fuseboard switch
103	Cubby box switch
104	Front passenger's map lamp switch
105	Left-hand front door switch
106	Left-hand rear door switch
107	Left-hand rear lamps switch
108	Bonnet lamp switch
109	Right-hand front door switch
110	Right-hand rear door switch
111	Right-hand rear lamps switch
112	Boot lamp switch
113	Driver's roof lamp switch
114	Right-hand front door solenoid
115	Left-hand front door solenoid

WD	Window demist socket
LD	Left-hand door socket
RD	Right-hand door socket
LB	Left-hand body socket
RB	Right-hand body socket

Interior lighting

Schematic wiring diagram
Right-hand drive
Fig. M61



Interior lighting

Component location Left-hand drive
Fig. M62

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May 1977
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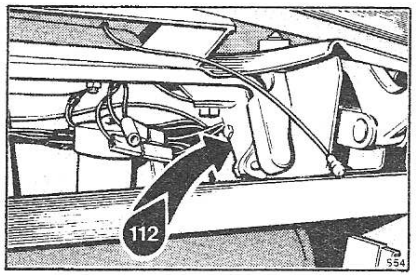
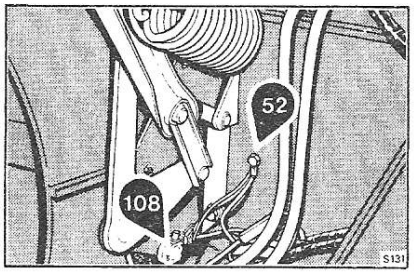
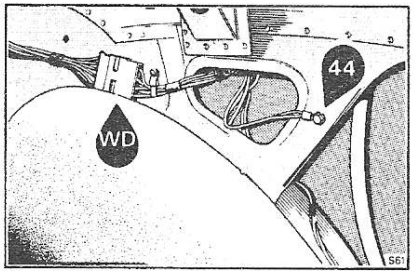
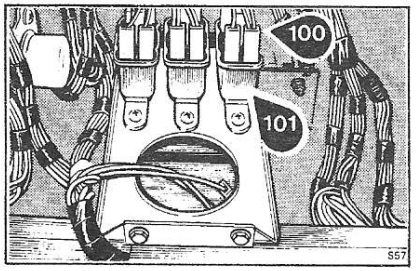
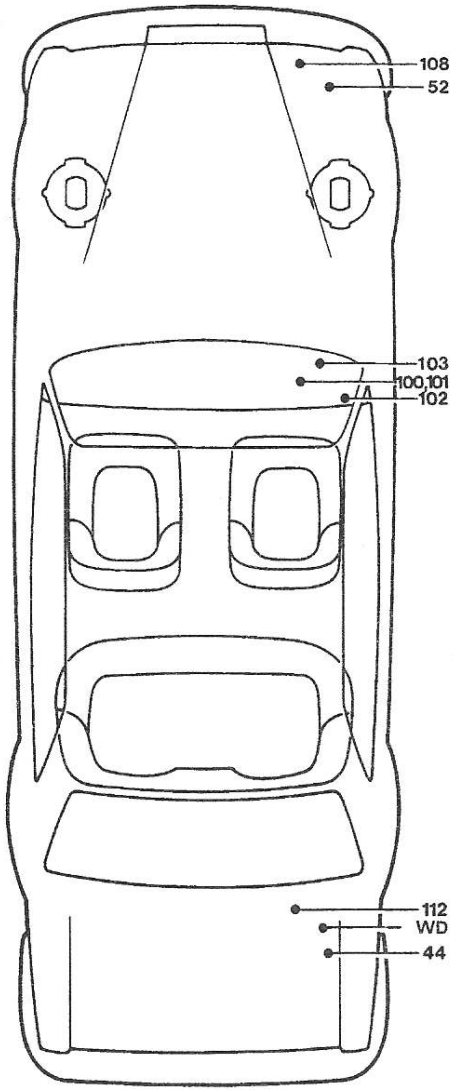










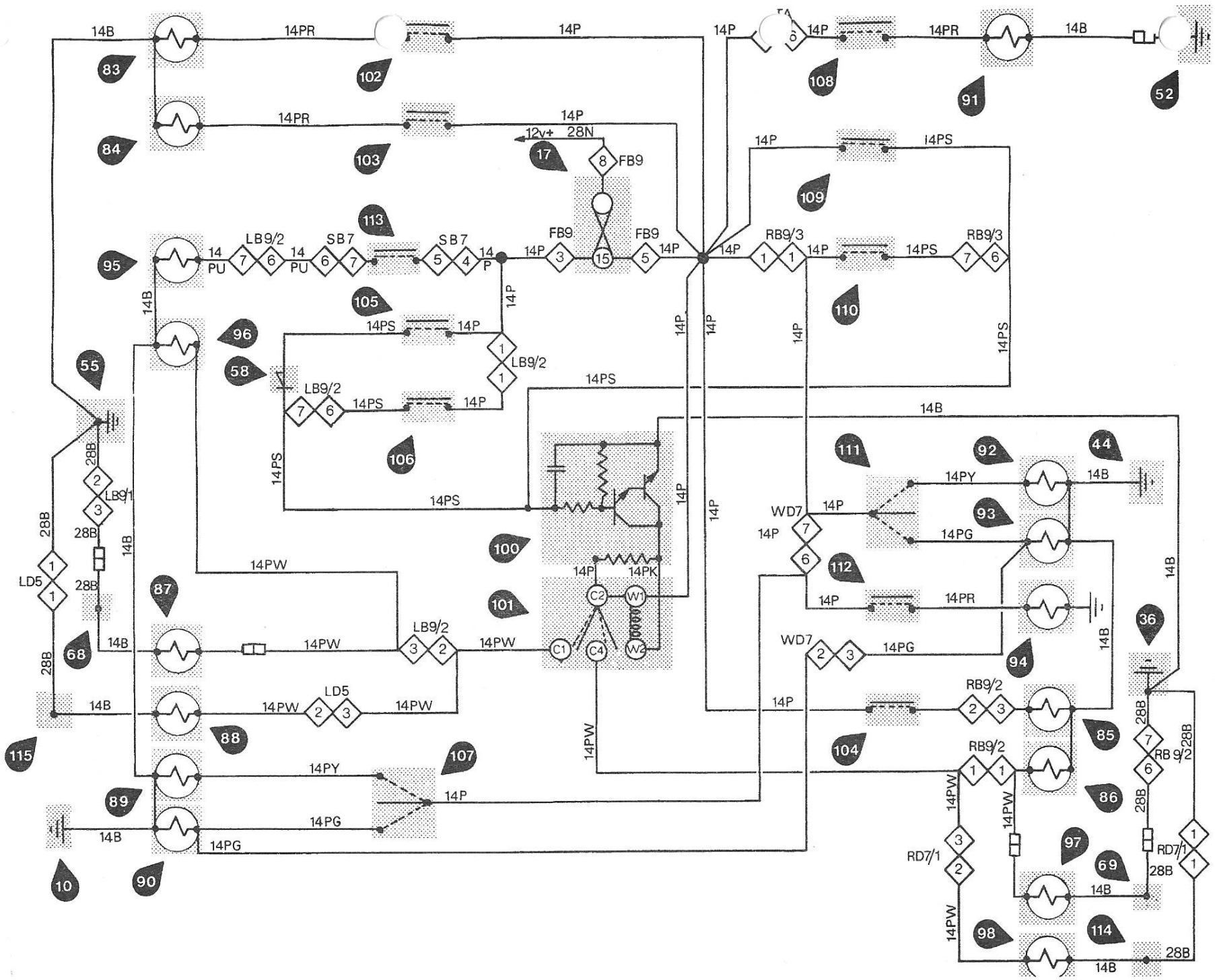
Components

10	Left-hand boot earth
17	Fuseboard
36	Right-hand 'A' post earth
44	Right-hand boot earth
52	Right-hand front earth
54	Instrument panel earth
55	Left-hand 'A' post earth
68	Left-hand rear cigar lighter
69	Right-hand rear cigar lighter
83	Fuseboard lamp
84	Cubby box lamp
85	Front passenger's map lamp
86	Front passenger's interior lamp
87	Left-hand armrest lamp
88	Left-hand door edge lamp
89	Left-hand rear reading lamp
90	Left-hand rear interior lamp
91	Bonnet lamp
92	Right-hand rear reading lamp
93	Right-hand rear interior lamp
94	Boot lamp
95	Driver's roof lamp
96	Driver's interior lamp
97	Right-hand armrest lamp
98	Right-hand door edge lamp
100	Interior lamps delay unit
101	Interior lamps delay relay
102	Fuseboard switch
103	Cubby box switch
104	Front passenger's map lamp switch
105	Left-hand front door switch
106	Left-hand rear door switch
107	Left-hand rear lamps switch
108	Bonnet lamp switch
109	Right-hand front door switch
110	Right-hand rear door switch
111	Right-hand rear lamps switch
112	Boot lamp switch
113	Driver's roof lamp switch
114	Right-hand front door solenoid
115	Left-hand front door solenoid

WD	Window demist socket
LD	Left-hand door socket
RD	Right-hand door socket
LB	Left-hand body socket
RB	Right-hand body socket

Interior lighting

Schematic wiring diagram
Left-hand drive
Fig. M63



Section M8

Exterior lighting
Contents

Cars prior to car serial numbers

Silver Shadow II - SRX 34573
Silver Wraith II - LRG 34601
Bentley T2 - SBH 34775
Corniche Saloon - CRH 34830
Corniche Convertible - DRX 33029

For cars from car serial numbers

Silver Shadow II - SRX 34573
Silver Wraith II - LRG 34601
Bentley T2 - SBH 34775
Corniche Saloon - CRH 34830
Corniche Convertible - DRX 33029

Refer to Section M8 Supplement number 1

July 1979
TSD 42C

Section M8

Exterior lighting

Introduction
There are three wiring diagrams covering this section, one for front and rear foglamps, one for head, side, tail and number plates and one for direction indicators, hazard warning, reverse and stoplamps.

Headlamps
Headlamp bulb - To renew (see Fig. M64)

1. Remove the fairing securing screw, raise the lower edge of the fairing and unhook it from the two upper retainers; remove the seal.
2. Release the three bezel retaining screws, do not remove completely. Turn the bezel anti-clockwise until the heads of the screws can pass through the enlarged portion of the slots, remove the bezel and at the same time retain the light unit in its mounting frame. Remove the light unit.
3. Detach the terminal socket from the bulb, open the retaining spring clip and remove the bulb from the reflector.

When fitting a new bulb, ensure that the groove and tang of the reflector and bulb assembly are aligned correctly.

Important
If the bulb glass is accidently touched by hand it must be cleaned with surgical spirit before fitting.

Sealed beam unit
The sealed beam unit is removed in a similar manner to the headlamp bulb except that the terminal socket is detached from the sealed beam unit.

Alignment and setting
When the headlamps have been disturbed, the headlamp beams should be checked and reset if necessary using a Lucas Beam Tester Mk III in accordance with the manufacturers instructions.

Head flash relay and switch (see Fig. M65)
When the head flash switch is operated, it energises the head flash relay which connects the main beam lamps and warning lamp to fuse 7.

Head flash relay - To test (see Fig. M66)

1. Switch on the ignition and using a test lamp verify that the 28UG cable to C2 and W2 is 'live'.
2. Connect a test lamp between earth and the 14UW cables at C1, the lamp should remain extinguished.
3. Connect W1 (14UB cable) to earth, the test lamp should illuminate.

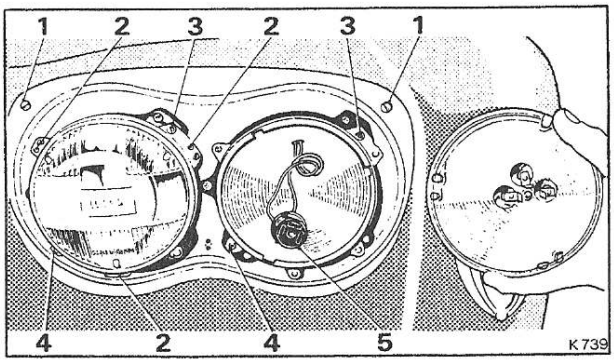


Fig. M64 Access to sealed beam units
1 Location pegs
2 Securing screw
3 Vertical beam adjusting screw
4 Horizontal beam adjusting screw
5 Lamp socket

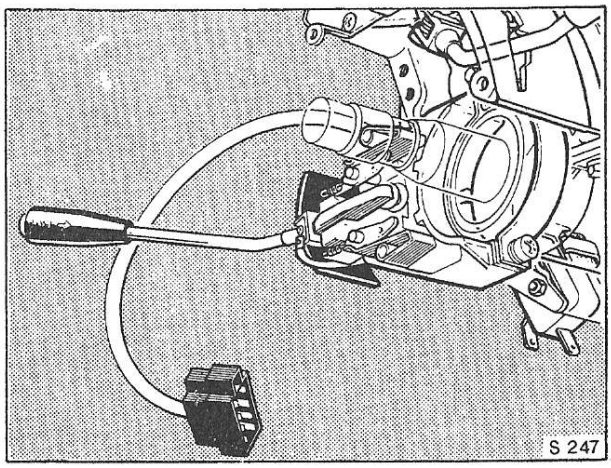


Fig. M65 Direction indicator and head flash switch

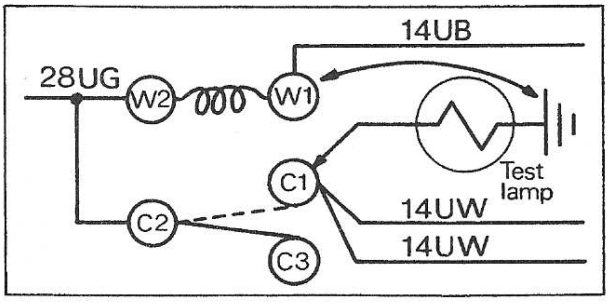


Fig. M66 Head flash relay test circuit

Head safety circuit

If a fault occurs in the primary headlamp circuit, the head safety relay connects the dipped headlamps to a secondary circuit thereby enabling at least one headlamp to function.

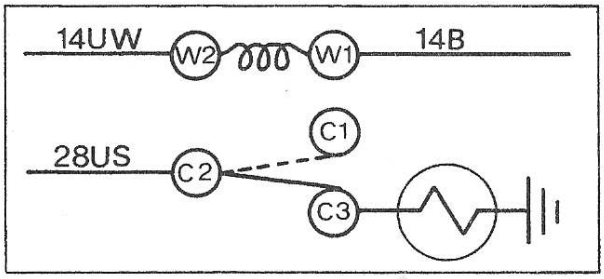


Fig. M67 Head safety relay test circuit

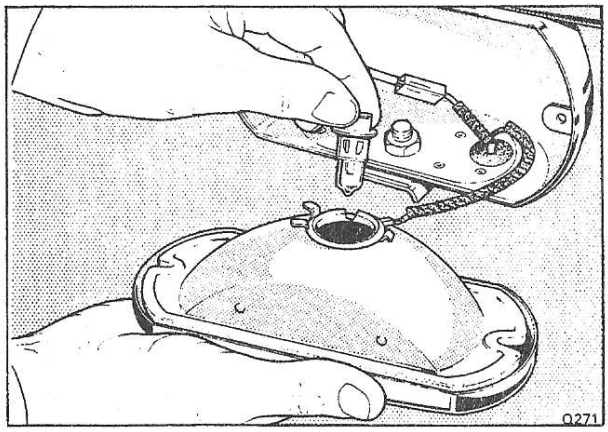


Fig. M68 Front foglamp

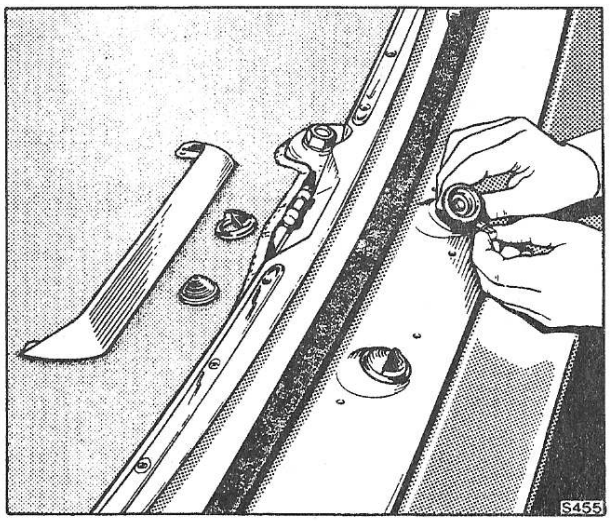


Fig. M69 Number plate bulb fitting

Head safety relay

The relay is energised whenever the primary headlamp circuit is functioning but if a fault occurs the relay is then de-energised which connects contact C2 to C3 thereby connecting the headlamps to the secondary circuit breaker.

Head safety relay - To test (see Fig. M67)

1. Disconnect the 28UR cable from C3 and connect a test lamp between C3 and earth. Insulate the 28UR cable.
2. Switch on the headlamps and verify that the 14UW cable at W2 and the 28US cable at C2 are 'live'. The test lamp connected to C3 should be extinguished.
3. Disconnect the 14B cable from W1 and verify that the test lamp is lit.
4. Switch off the headlamps and replace the cables.

Foglamps

The front foglamps are lit when the main lighting switch is set to FOG, the rear foglamps are lit when the REAR FOG switch is depressed and the main lighting switch is set to FOG or HEAD. The REAR FOG warning panel will also illuminate.

Front foglamp bulb - To renew (see Fig. M68)

1. Remove the protective cover and unscrew the retaining screws.
2. Withdraw the lens unit together with the chromed surround.
3. Detach the Lucar connector, remove the spring and withdraw the bulb.
4. When fitting a new bulb, **do not touch the glass part of the bulb with the hand.** If the glass has been accidently touched it must be cleaned with surgical spirit before fitting.

Rear foglamp bulb

When fitting a rear foglamp bulb, ensure that the drain hole in the lamp surround is facing downwards.

Rear foglamp switch and relay

The rear foglamp switch and relay enables the rear foglamps to be used independantly of the front foglamps.

Rear foglamp relay - To test

1. Switch the main lighting switch to HEAD.
2. Connect a test lamp between earth and C1, then between earth and C2, the lamp should be lit in each case.
3. Connect the test lamp between earth and C3, the lamp should remain extinguished.
4. Switch the main lighting switch to FOG.
5. Connect a test lamp between earth and C3, then between earth and C2, the lamp should be lit in each case.
6. Connect the test lamp between earth and C1, the lamp should remain extinguished.

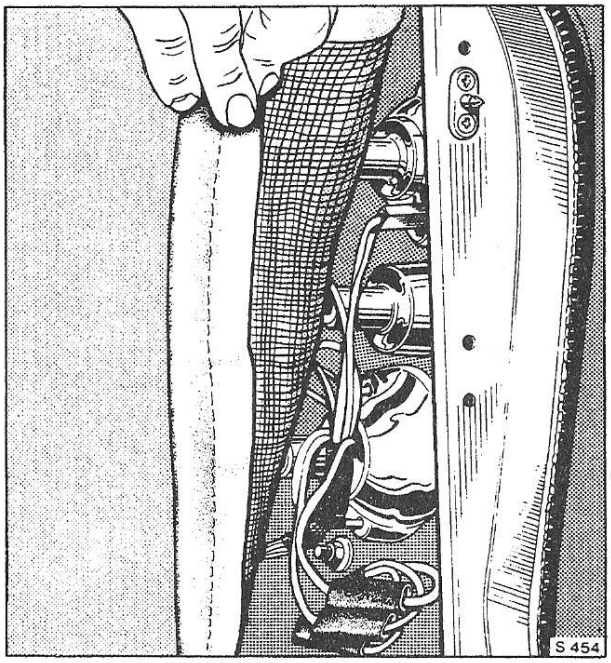


Fig. M70 Rear lamps

Stoplamp failure relay

When both stoplamps are working, the current through the two coils of the relay oppose each other and the reed switch remains open. If a stoplamp fails, the current flowing through one coil will close the reed switch which is connected to the warning lamp. (Refer to Section M4 for details of the warning lamp circuit).

Direction indicators and hazard warning

The direction indicator unit (flasher) is a Lucas type 8FL and is connected to fuse 9.

The hazard warning flasher unit is a Lucas type 9FL and is connected to fuse 13.

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Section M8

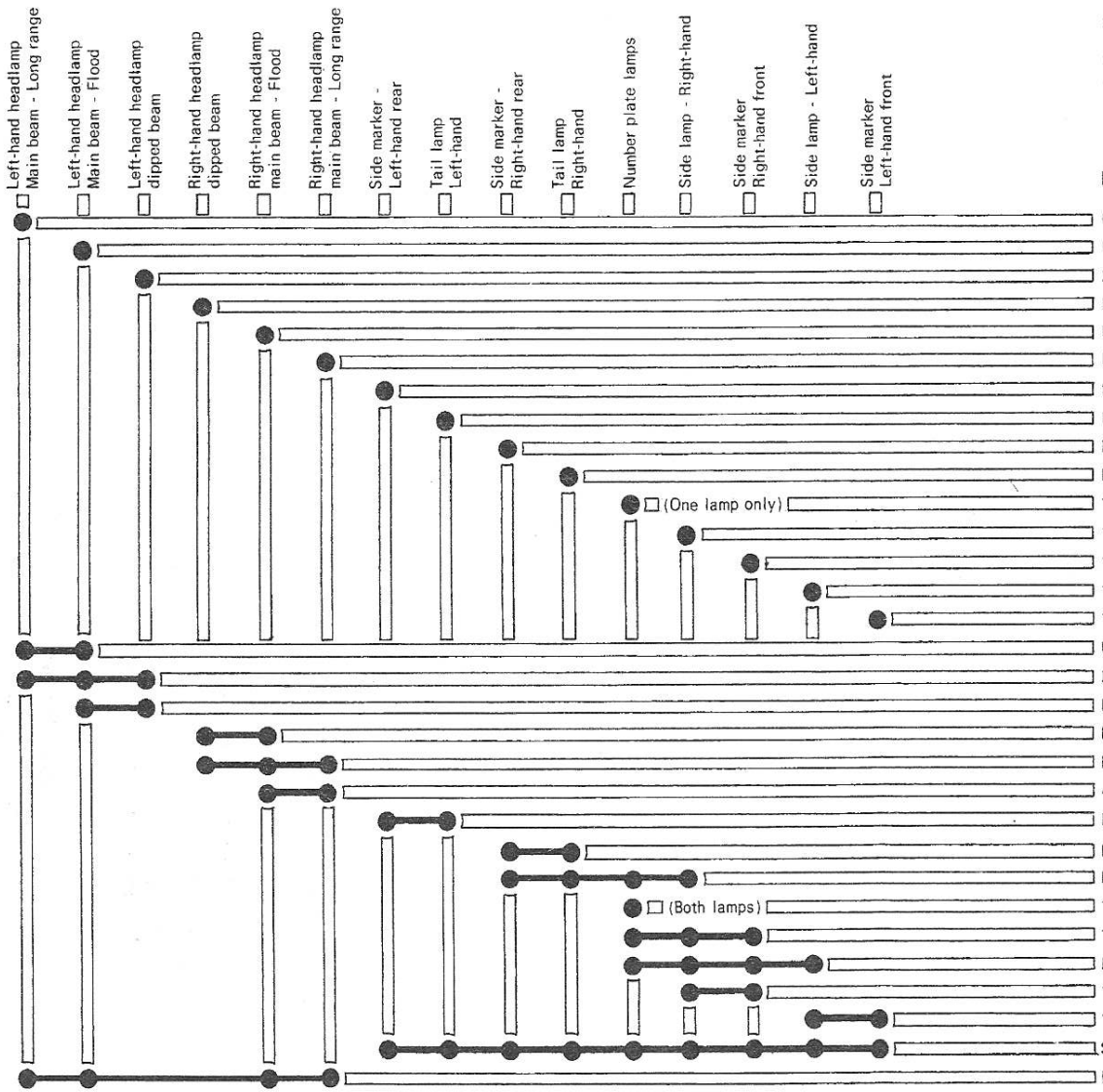
Exterior lighting

Fault finding chart

Head, tail, side, side marker and number plate lamps

Fig. M71

Head, tail, side, side marker and number plate lamps



Indicates bulb not lit

Combination of bulbs not lit

Before using this chart, verify that the bulbs are not broken

How to use this chart

1. Determine which bulb or combination of bulbs are not working.
2. Scrutinise each horizontal line of the chart to determine which combination of spots corresponds to the bulbs not working.
3. Trace along the horizontal line to find the possible cause of the fault.
4. Refer to the wiring diagram to obtain the connector pin numbers and component identification.

Possible cause

- UW cable or earth cable from 137 to Lucar connector.
- UW cable from 138 to Lucar connector.
- 28UR cable from 139 to Lucar connector. Relay 135. Fuse 6.
- Fuse 5. 28UR cable from fuseboard to 140 via RTB and Lucar connector.
- UW cable from 141 to Lucar connector.
- UW cable or earth cable from 142 to Lucar connector.
- 9RK or 14B cables from 143 to 142.
- Broken bulb only.
- RG cable or 14B cable from 145 to 146.
- Broken bulb only.
- 14R cable or 14B cable between lamps.
- 14R or 14B cables from 148 to Lucar connectors.
- 14R or 14B cables from 149 to Lucar connectors.
- 14R or 14B cables from 150 to Lucar connectors.
- 14R or 14B cables from 151 to Lucar connectors.
- UW cables from LTL to Lucar. UW cable from 134 to Lucar. Relay 134.
- Earth cable from 64 to Lucar connector.
- Earth cable from 138 to Lucar connector.
- Earth cable from 141 to Lucar connector.
- Earth cable from 56 to Lucar connector.
- 44UW cable from RTB to Lucar connector.
- Fuse 16. 9RK cable from FB9/1 to LB9 to 144. Earth cable from 144 to 10.
- Fuse 17. 14RG cable from FB9/2 to RB9 to 146. Earth cable from 146 to 44.
- Faulty earth 44.
- 14R cable from RTA to RB9 to 147. Earth cable from 147 to 44.
- 14R cable from WL9 to RTA.
- Fuse 19.
- 14R cable from RTA to Lucar connector. Earth cable to 56.
- 14R cable from FB9/2 to LTM to Lucar connector. Earth cable to 64.
- Switchbox terminal 5. 28NO cable from SB9 to FB9/1.
- Fuse 7. 28UG cable to 134 via LTM. 14UB cable at 134 and 136 via LTL. 14 cable at 36.

For other faults, refer to Fault diagnosis

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Section M8

Exterior lighting

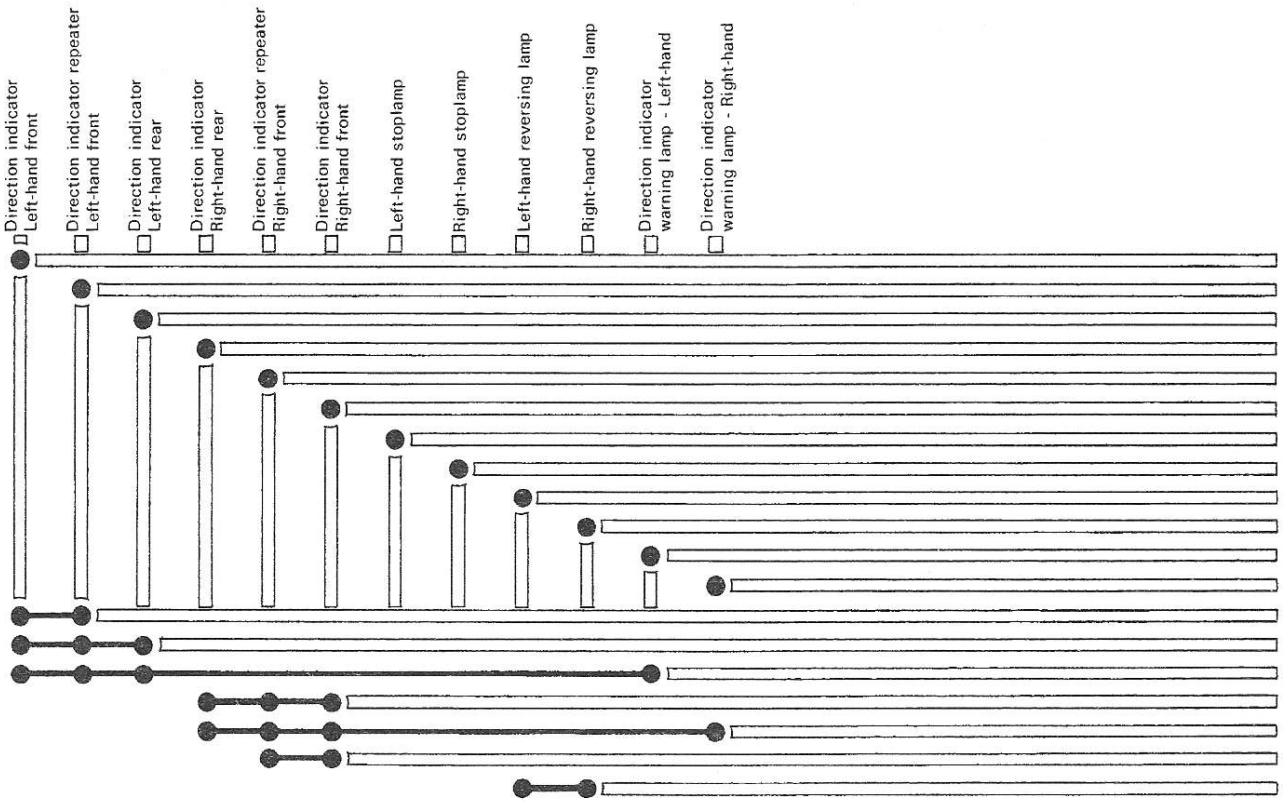
Fault finding chart

Hazard, direction, stop, reversing and fog lamps

Fig. M72

T S D 4000 May 1977

Hazard, direction, stop and reversing lamps



Indicates bulb not lit

Combination of bulbs not lit

Before using this chart, verify that the bulbs are not broken

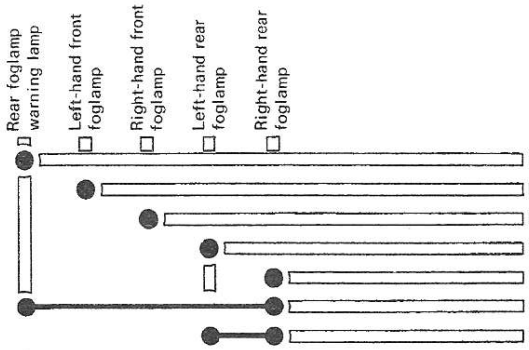
How to use this chart

1. Determine which bulb or combination of bulbs are not working.
2. Scrutinise each horizontal line of the chart to determine which combination of spots corresponds to the bulbs not working.
3. Trace along the horizontal line to find the possible cause of the fault.
4. Refer to the wiring diagram to obtain the connector pin numbers and component identification.

Possible cause

- 14GP cable from LTM to 158 . 14B cable from 158 to 64 .
- 14GP cable from LTM to 159 . 14B cable from 159 to 56 .
- 14GP cable from LB9 to 160 . 14B cable from 160 to 10 .
- 14GY cable from RB9 to 161 . 14B cable from 161 to 44 .
- 14GY cable from RTA to 162 . 14B cable from 162 to 15 .
- 14GY cable from RTA to 163 . 14B cable from 163 to 52 .
- 14YN cable from 46 to WD7 to 47 . 14B cable from 47 to 10 .
- 14YN cable from 46 to 48 . 14B cable from 48 to 44 .
- 14B cable from 164 to 10 .
- 14B cable from 165 to 44 . 14WN cable from 164 to WD7 to 165 .
- 14GP cable from 152 to 154 .
- 14GY cable from 152 to 155 .
- 14GP cable from LB9 to LTB .
- 14GP cable from 152 to LB9 .
- 152 faulty . 62 faulty . 14GR cable between 62 and 152 .
- 14GY cable from 152 to RB9 .
- 152 faulty . 62 faulty . 14GW cable between 62 and 152 .
- 14GY cable from RB9 to RTA .
- 153 faulty . 14WN cable from 153 to LTH to LB9 to 164 .

Foglamps



- 14B cable from 166 to 36 via OC7, PD, 77, 78 .
- Fuse . 14UY cable from fuse to LTC to 167 . 14B cable from 167 to 64 .
- Fuse . 14UY cable from fuse to RTB to 168 . 14B cable from 168 to 52 .
- 14UN cable from 170 to 169 . 14B cable from 170 to 169 .
- 14B cable from 170 to Lucar connector .
- 166 . 61 . 14PN cable from 61 to 166 .
- 14UN cable from 166 to 170 via RB9 .

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Section M8

Exterior lighting Fault diagnosis

Malfunction	Possible cause	Action
Headlamps stay on 'dipped beam'	Faulty thermal cut-out	Substitute thermal cut-out.
	Faulty dipswitch	On the dipswitch, verify that the 44U cable is 'live' then test the UW and UK cables when operating the dipswitch.
Headlamps stay on 'main' beam	Faulty dipswitch	Repeatedly depress the dipswitch and test for permanent live feed on UW cable.
Lamps dim momentarily approximately every 24 seconds	Short circuit	Check the following cables: 28US from head safety relay to left-hand toeboard socket M and fuseboard
No left-hand dip beam and lamps dim momentarily approximately every 24 seconds	Short circuit	Check the following cables: 28UR from lamp to head safety relay. 28UR from lamp to LTL. 28UR from fuseboard to LTL.
Incorrect flashing rate - one side only	Incorrect wattage bulb	Substitute bulb.
Incorrect flashing rate - both sides	Faulty flasher unit	Substitute unit.
	Incorrect system voltage	Measure the voltage between fuse 9 and earth.
	Incorrect wattage bulb	Substitute bulbs.
Both direction indicator warning lamps flashing simultaneously	Poor earth	Bridge across to speedometer casing.
Hazard warning system permanently flashing	Faulty hazard warning switch	Verify that the hazard warning switch is fully engaged.
	Faulty direction indicator switch	Disconnect direction indicator switch socket.

Refer to charts for lamp failure

Exterior lighting

Component location

Head, tail, side, side marker and number plate lamps

Fig. M73

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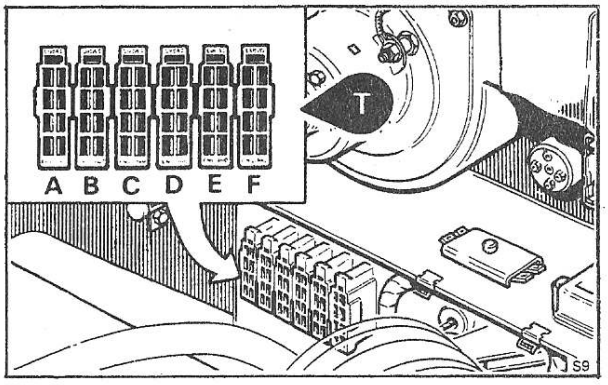
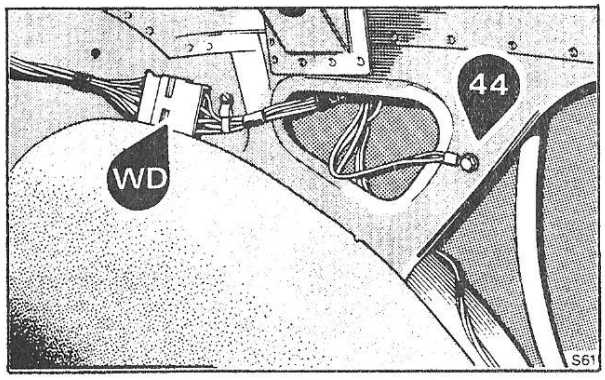
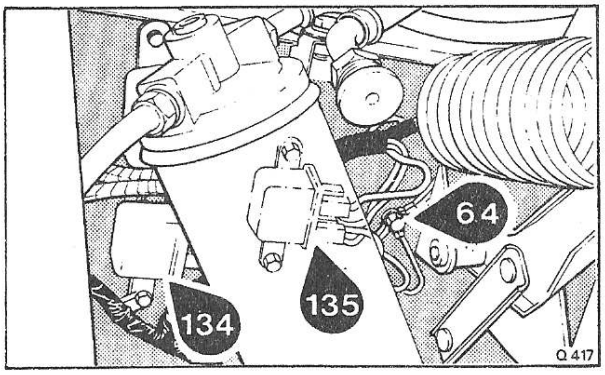
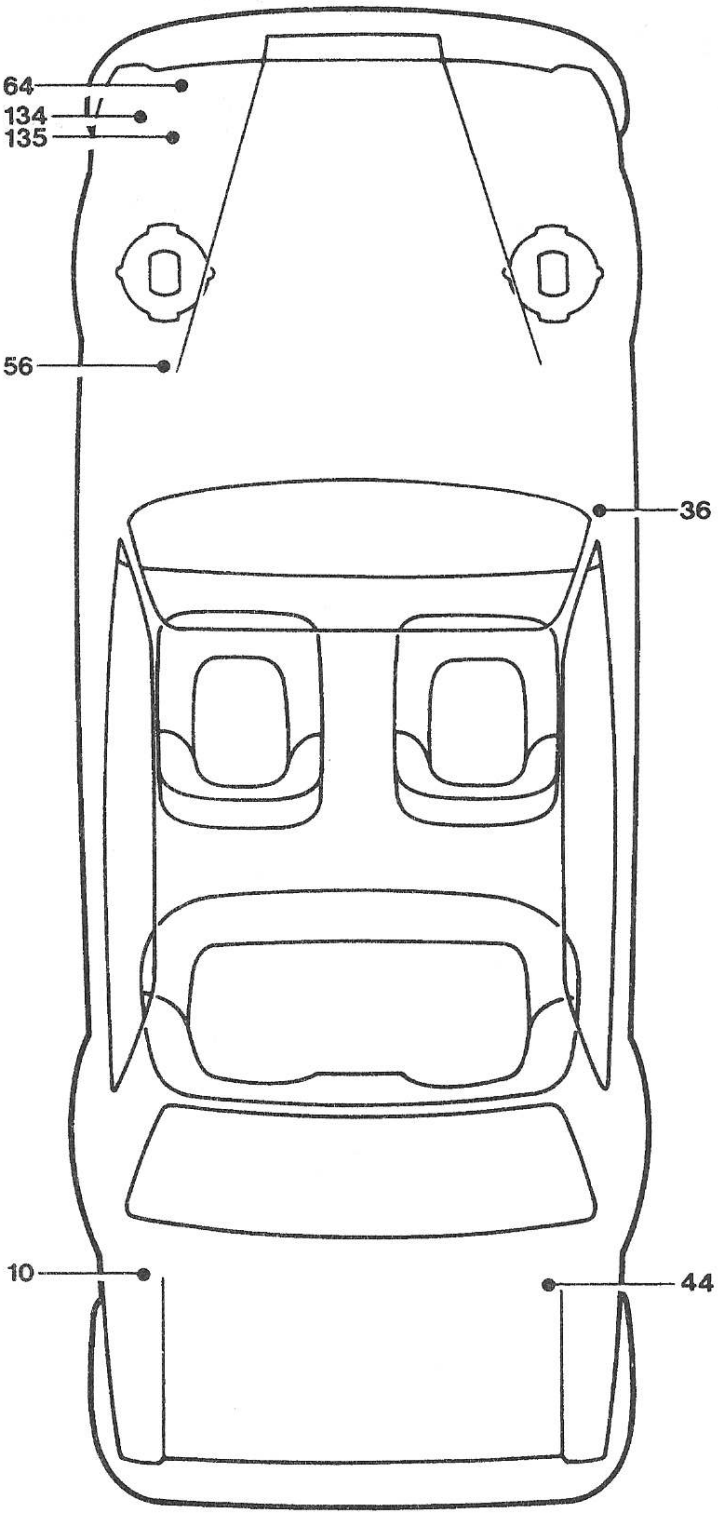








Components

5 Ignition switch
10 Left-hand boot earth
17 Fuseboard
36 Right-hand 'A' post earth
44 Right-hand boot earth
56 Left-hand valance earth
64 Left-hand front earth
78 Main beam warning lamp
116 Main lighting switch
117 Dipswitch
134 Head flash relay
135 Head safety relay
136 Head flash switch
137 Left-hand main beam headlamp (long range)
138 Left-hand main beam headlamp (flood)
139 Left-hand dipped beam headlamp
140 Right-hand dipped beam headlamp
141 Right-hand main beam headlamp (flood)
142 Right-hand main beam headlamp (long range)
143 Left-hand rear side marker
144 Left-hand tail lamp
145 Right-hand rear side marker
146 Right-hand tail lamp
147 Number plate lamps
148 Right-hand sidelamps
149 Right-hand front sidemarks
150 Left-hand sidelamp
151 Left-hand front sidemarker

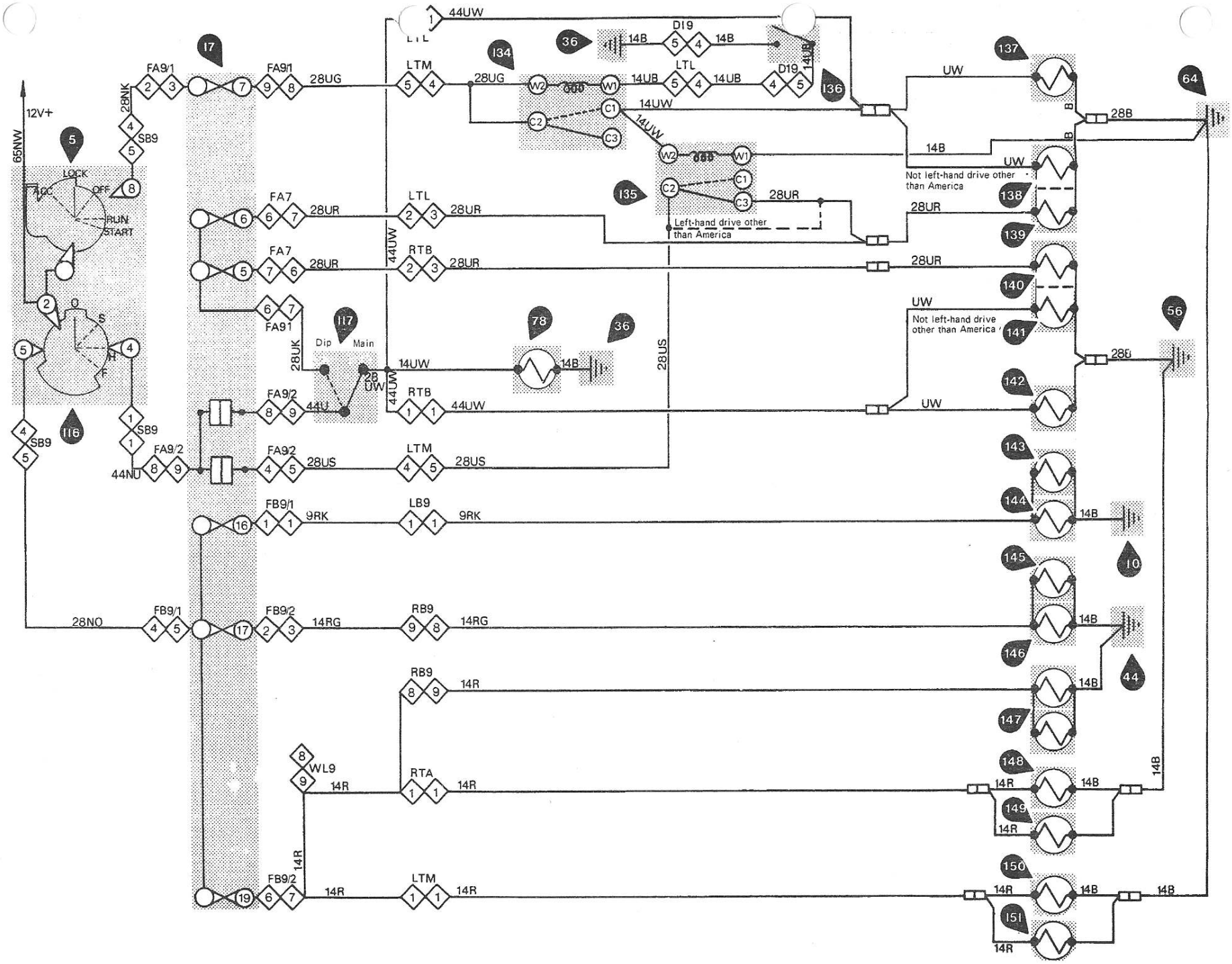
WD Window demist socket
T Toeboard sockets
DI Direction indicator socket
SB Switchbox socket
B Body sockets

Exterior lighting

Schematic wiring diagram

Head, tail, side, side marker and number plate lamps

Fig. M74


12V+
65NW
28NK
SB9
LOCK
ACC
OFF
RUN
START
116
117
Dip
Main
FA9/1
FA9/2
FA7
FA91
28UG
28UR
28UK
44UW
44U
44NU
28US
28NO
14UW
14RG
14R
9RK
LTM
LTL
RTB
RTA
LB9
RB9
WL9
FB9/1
FB9/2
D19
14B
14UB
UW
28B
28R
Not left-hand drive other than America
Left-hand drive other than America
Not left-hand drive other than America
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Exterior lighting

Component location

Hazard, direction, stop and reversing lamps

Fig. M75

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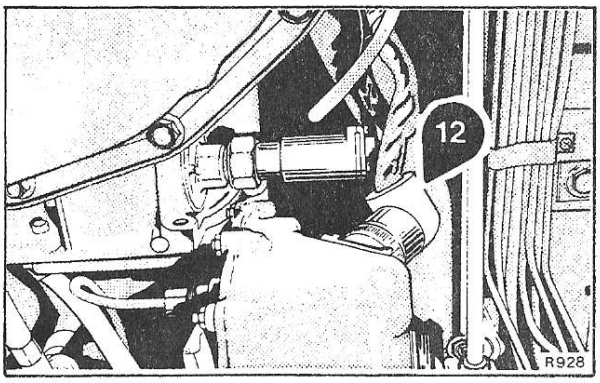

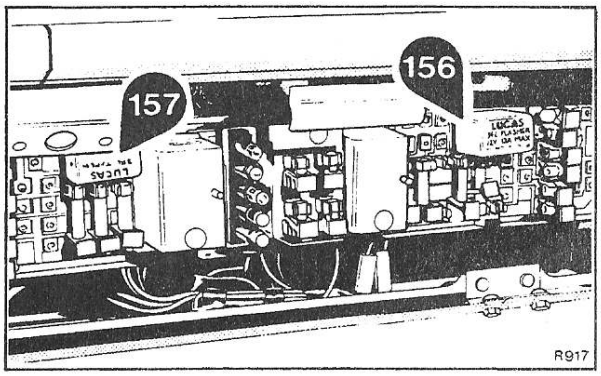

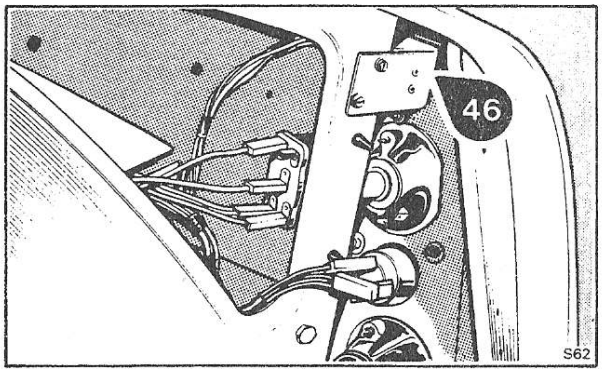

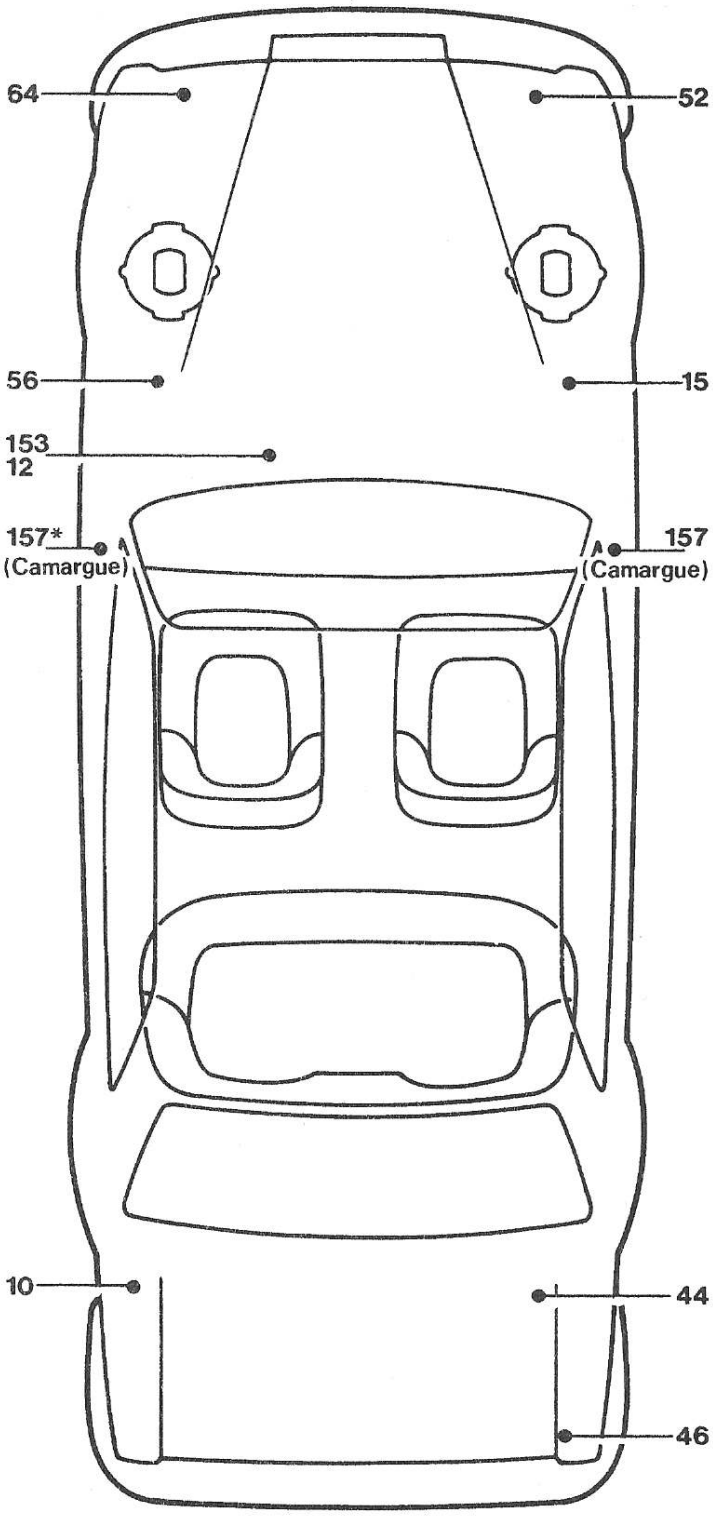

Components

5 Switchbox
10 Left-hand boot earth
12 Gearbox neutral start switch
15 Right-hand valance earth
17 Fuseboard
38 Stoplamp switch
44 Right-hand boot earth
46 Stoplamp failure relay
47 Left-hand stoplamp
48 Right-hand stoplamp
52 Right-hand front earth
56 Left-hand valance earth
62 Direction indicator switch
64 Left-hand front earth
77 Speedometer
152 Hazard warning switch
153 Reversing switch (gearchange actuator)
154 Left-hand direction indicator warning lamp
155 Right-hand direction indicator warning lamp
156 Hazard warning flasher unit
157 Direction indicator flasher unit
158 Left-hand front direction indicator
159 Left-hand front repeater
160 Left-hand rear direction indicator
161 Right-hand rear direction indicator
162 Right-hand front repeater
163 Right-hand front direction indicator
164 Left-hand reversing lamp
165 Right-hand reversing lamp

T Toeboard
HW Hazard warning socket
DI Direction indicator socket
WD Window demist socket
B Body sockets

* All left-hand drive

Exterior lighting

Schematic wiring diagram

Hazard, direction, stop
and reversing lamps

Fig. M76

S 405

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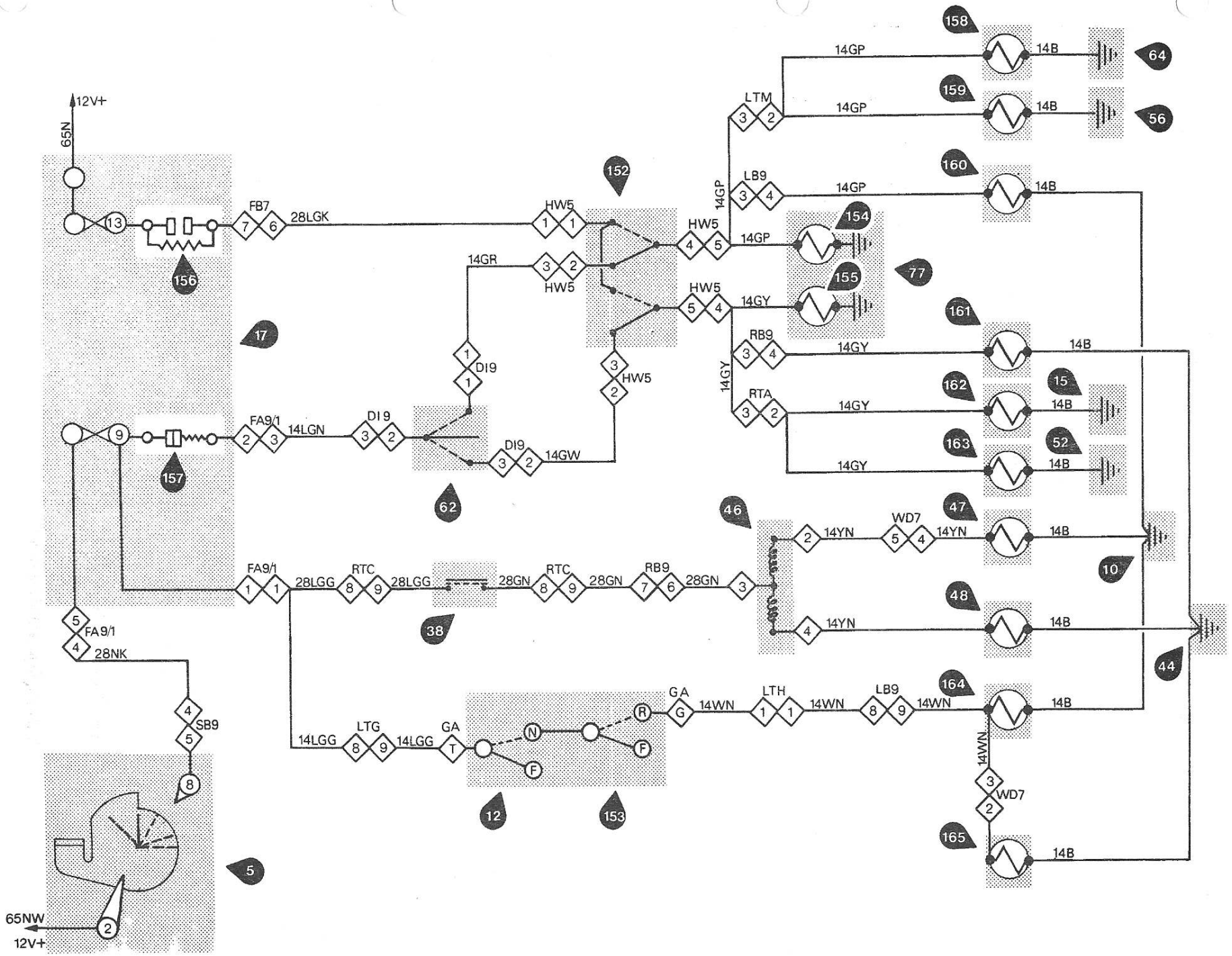
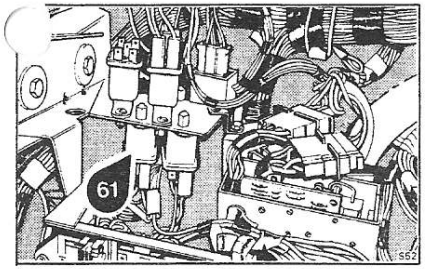


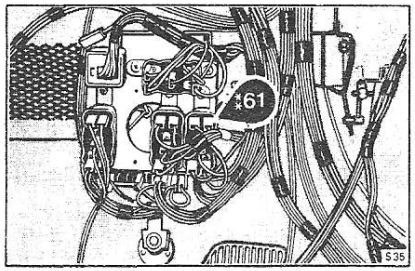
Exterior lighting

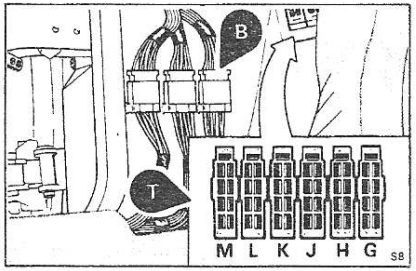
Component location and
schematic wiring diagram

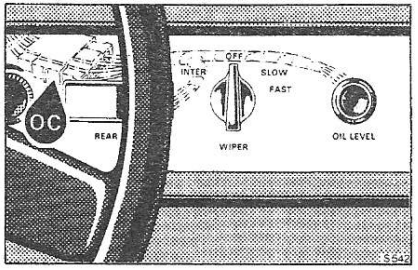
Foglamps

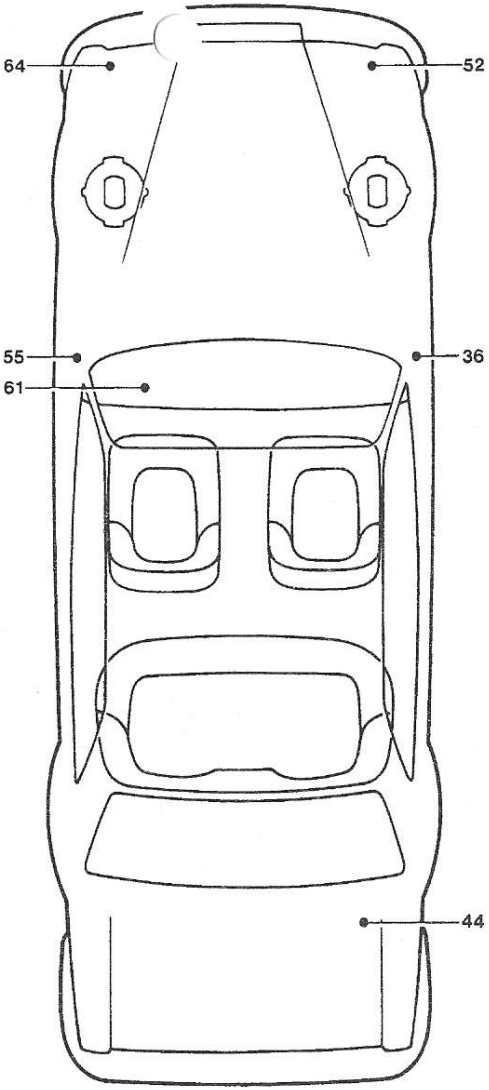
Fig. M77

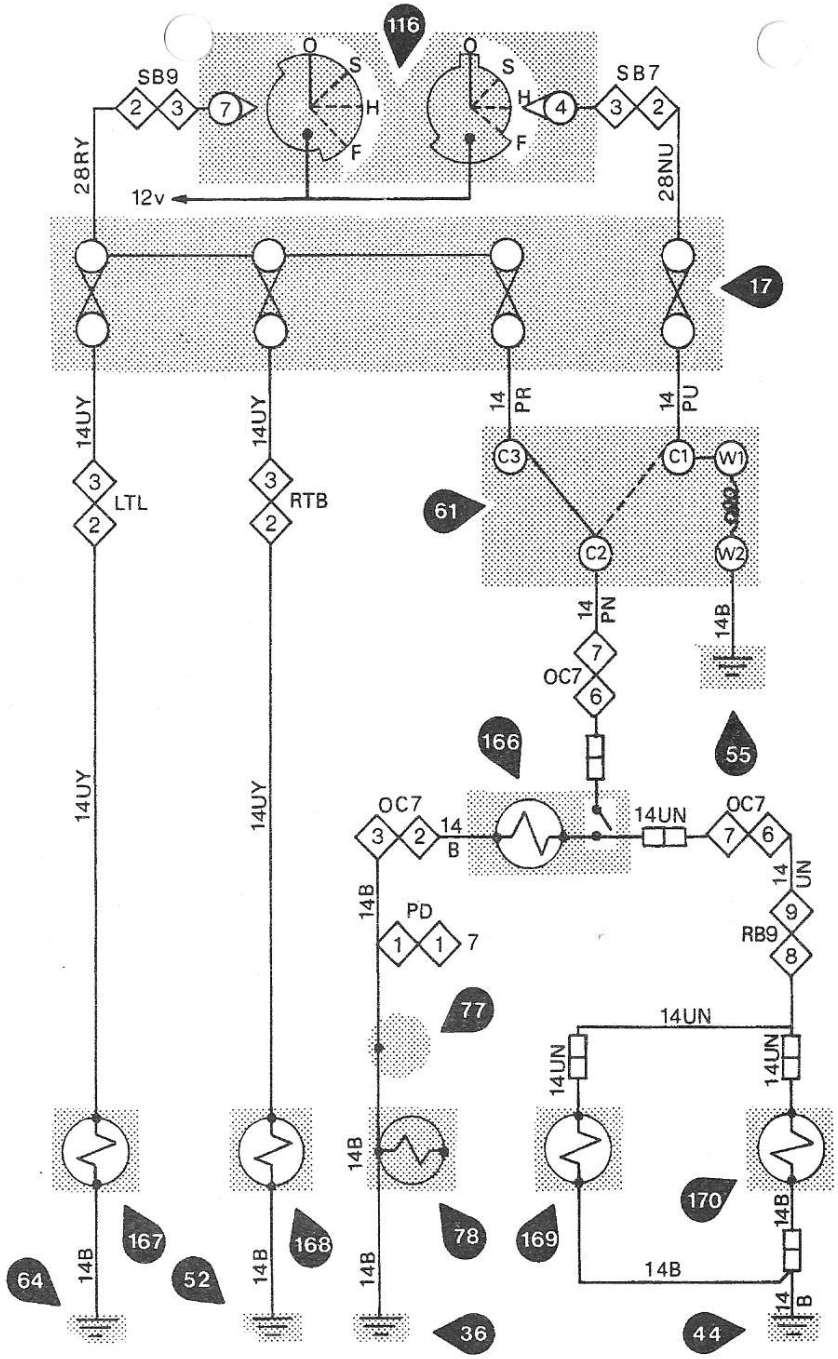












Components

17	Fuseboard
36	Right-hand 'A' post earth
44	Right-hand boot earth
52	Right-hand front earth
55	Left-hand 'A' post earth
61	Rear foglamp relay
64	Left-hand front earth
77	Speedometer
78	Main beam warning lamp
116	Main lighting switch
166	Rear foglamp switch and warning lamp
167	Left-hand front foglamp
168	Right-hand front foglamp
169	Left-hand rear foglamp
170	Right-hand rear foglamp

OC	Oil check switch socket
PD	Panel dim socket
T	Toeboard sockets
B	Body sockets

‡ Left-hand drive not North America

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Section M8

Supplement number 1
Exterior lighting
Contents

Schematic wiring diagrams
Headlamps and foglamps

From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

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July 1979

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Section M8

Supplement number 1
Exterior lighting

Schematic wiring diagram

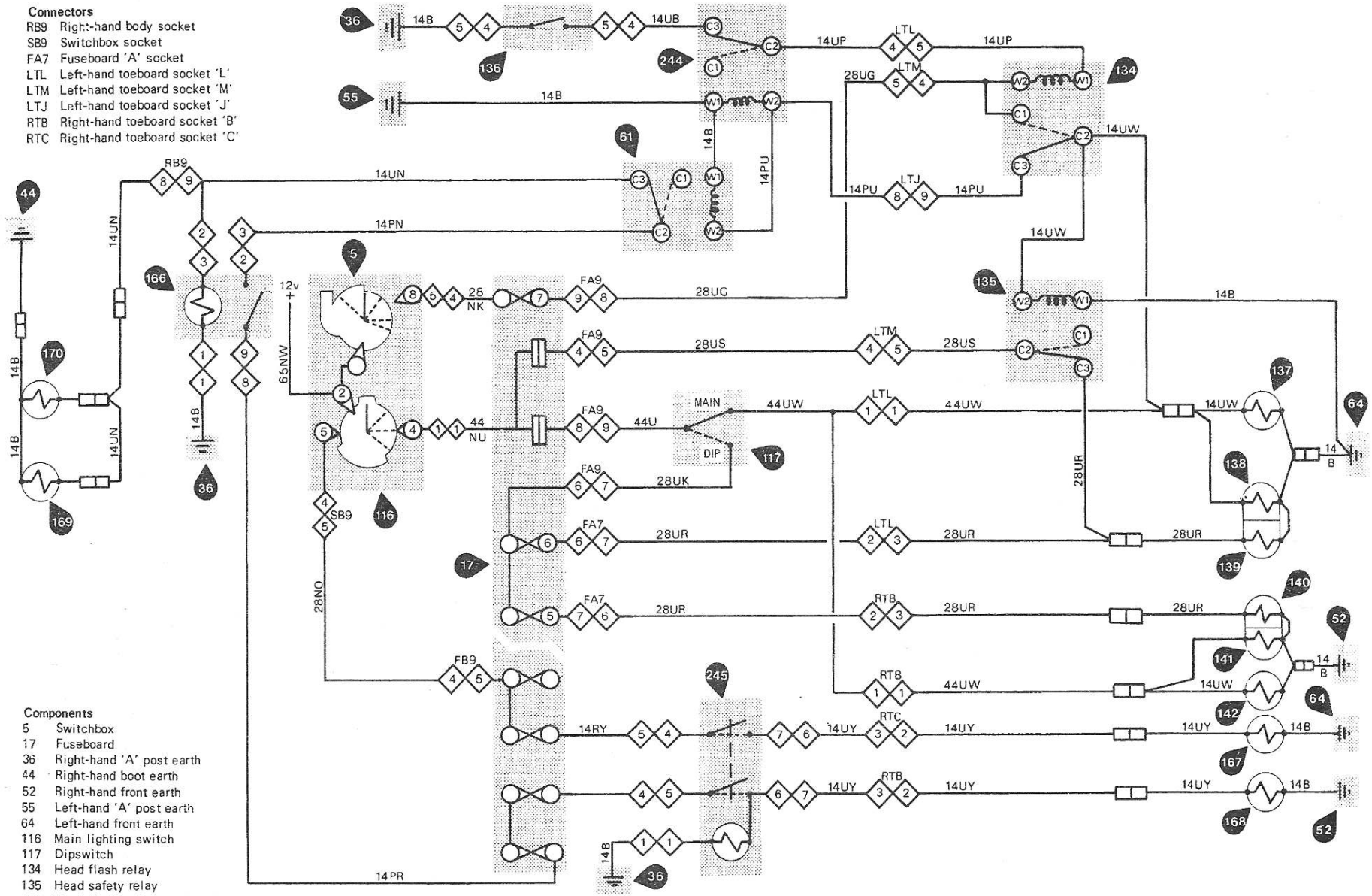
Headlamps and foglamps

Applicable to right-hand drive cars

From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M1 Supp. 1



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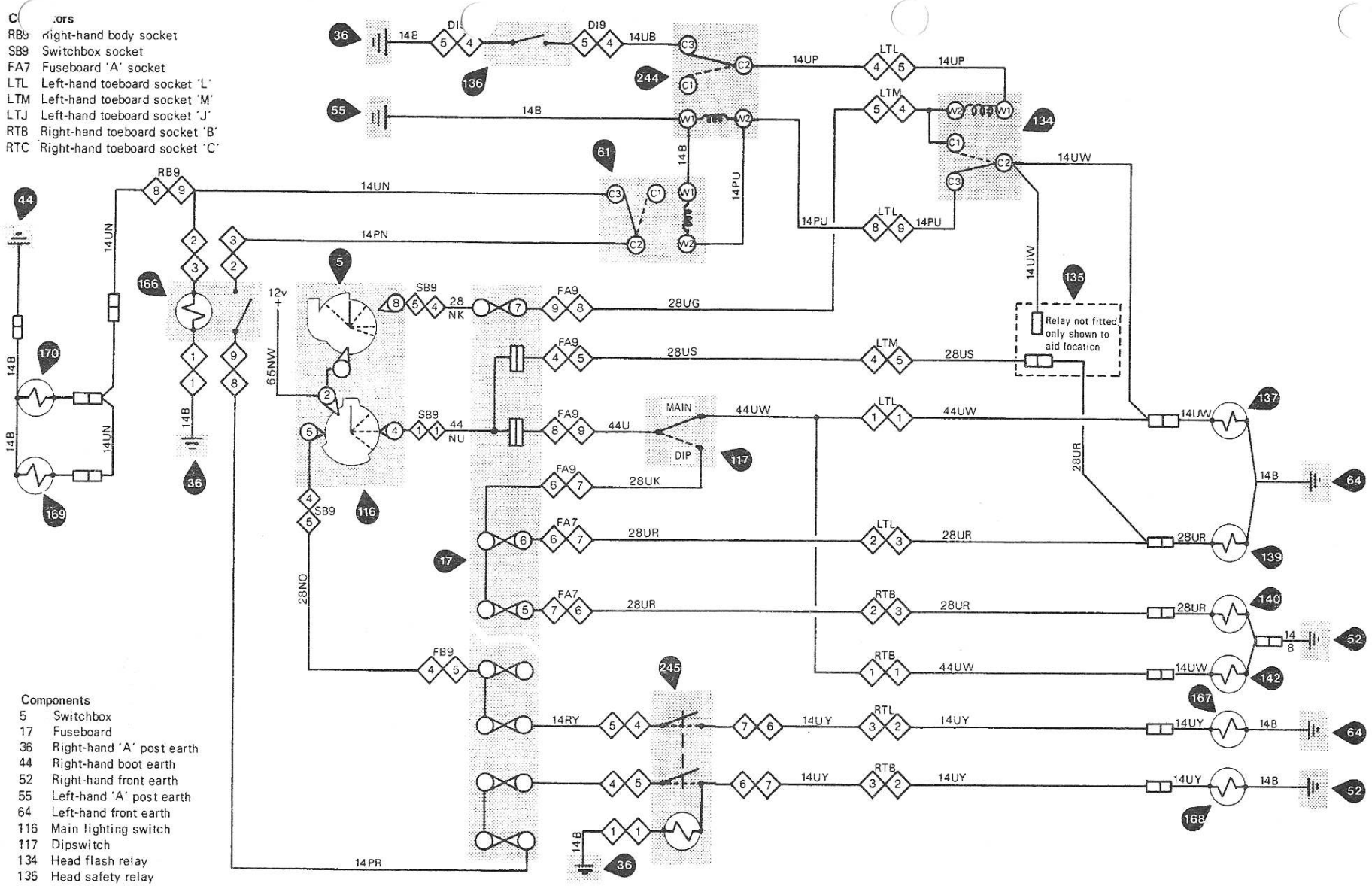
Section M8

Supplement number 1
Exterior lighting

Schematic wiring diagram
Headlamps and Foglamps
Applicable to left-hand drive
cars for countries other than
Canada and U.S.A.
From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M2 Supp. 1



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Section M8

Supplement number 1
Exterior lighting

Schematic wiring diagram

Headlamps

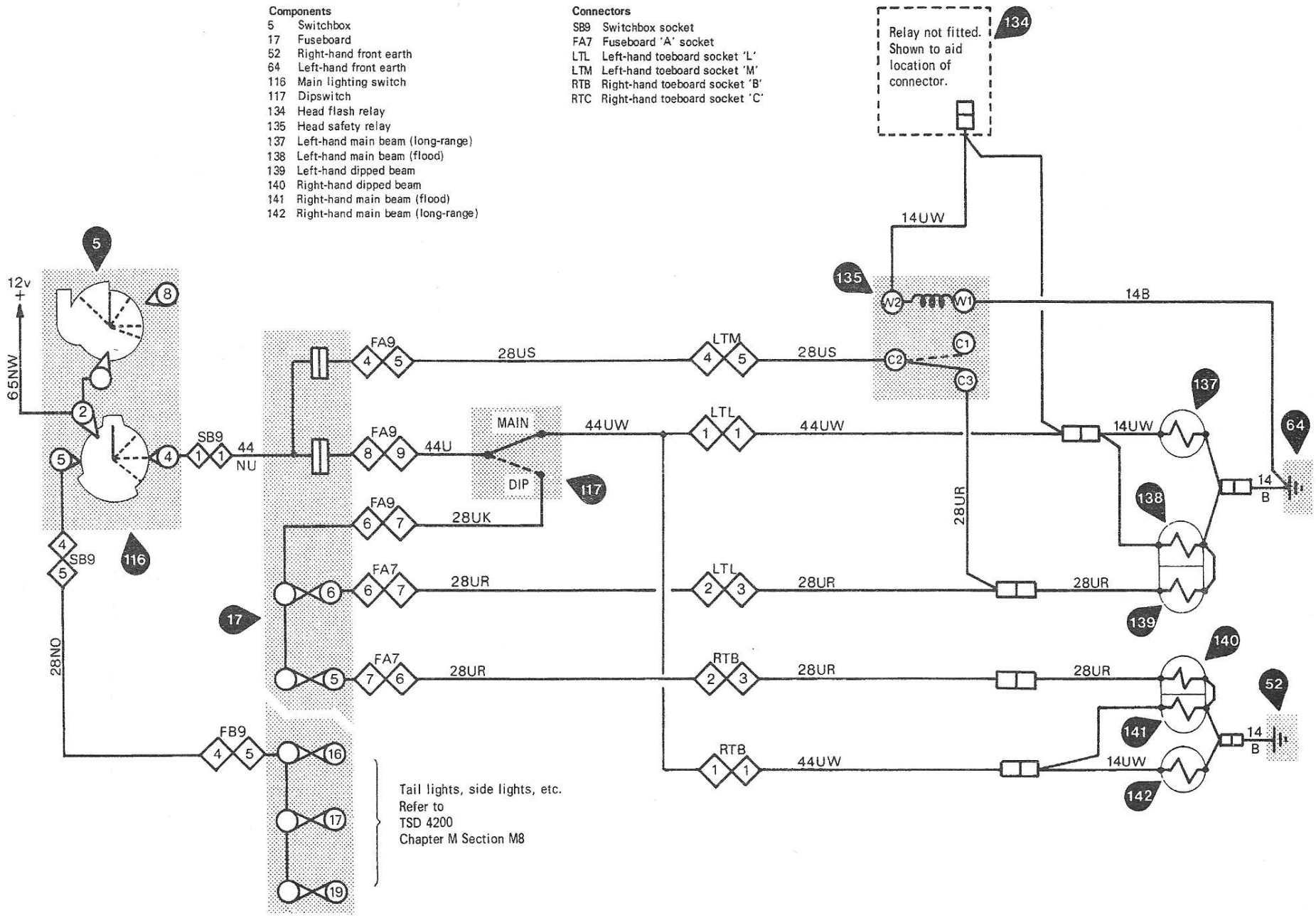
Applicable to left-hand drive cars

for Canada and U.S.A.

From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M3 Supp. 1



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TSD 4200

Section M9

In-car entertainment Contents

Cars prior to car serial numbers

Silver Shadow II - SRX 34573
Silver Wraith II - LRG 34601
Bentley T2 - SBH 34775
Corniche Saloon - CRH 34830
Corniche Convertible - DRX 33029

For cars from car serial numbers

Silver Shadow II - SRX 34573
Silver Wraith II - LRG 34601
Bentley T2 - SBH 34775
Corniche Saloon - CRH 34830
Corniche Convertible - DRX 33029

Refer to Section M9 Supplement number 1

Section M9

In-car entertainment

Introduction

This section covers the stereo radio, four track cartridge player and aerial circuit. There is one wiring diagram for cars without division and one wiring diagram for Silver Wraith II with division.

Fuse number 20 feeds the complete system but, in addition, the front radio and cartridge player share a separate line fuse.

Radio

If a fault occurs and the radio is suspected it should be sent to an approved repairer.

Radio - To remove and fit
Silver Shadow II, Corniche, Bentley T2, Silver Wraith II (front radio)

1. Disconnect the battery.
2. Remove the console as described in Chapter S.
3. Remove the six self-tapping screws securing the mounting bracket and withdraw the bracket and radio.
4. Disconnect the aerial lead, speaker leads and power supply.
5. To fit a radio, reverse operations 1 to 4 ensuring that the radio is not obstructed by cables.
6. If a new radio has been fitted it may be necessary to adjust the aerial trimmer for best reception.

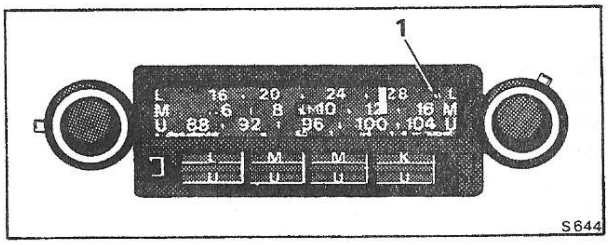

Fig. M78 Aerial trim screw location
1 Aerial trim screw

Camargue

1. Disconnect the battery.
2. Remove the facia as described in Chapter S.
3. Remove the screws securing the radio panel; withdraw the radio and disconnect the aerial, speaker leads and power supply.
4. Withdraw the knobs and unscrew the nuts from the spindle bushes.
5. To fit a radio, reverse operations 1 to 4 ensuring that the radio is not obstructed with cables.
6. If a new radio has been fitted it may be necessary to adjust the aerial trimmer for best reception.

Aerial - To trim (see Fig. M78)

1. Extend the aerial to its full extent then select a weak signal of about 1100 kHz.
2. Insert a small screwdriver into the trimmer hole and turn clockwise or anti-clockwise until the signal strength is at its maximum

Cartridge player

If a fault occurs on the cartridge player it should be sent to an approved repairer.

Radio aerial

On cars fitted with a centre division, the rear aerial is raised when the rear radio is switched on and is lowered when the radio is switched off.

The front aerial on all other cars is operated by the aerial switch fitted on the facia.

Front aerial - To remove

1. Disconnect the battery.
2. Remove the thermal cut-out and chock the rear wheels.
3. Support the car on blocks or a jack and remove the front road wheel.
4. Remove the caps and screws securing the rear undersheet to the front wing; remove the undersheet. The caps are fitted to the threaded end of the screws which protrude through the body into the engine compartment.
5. Unscrew and remove the chromium-plated bush fitted to the top of the wing taking care not to damage the chromium plating.
6. Remove the rubber mounting which fits beneath the surround.
7. Disconnect the aerial signal lead.
8. Disconnect the upper earth bonding strap.
9. Unscrew the screws securing the carpet covering the 'A' post connectors, peel back the carpet and disconnect the aerial motor cables at the Lucar connectors (light green/red and light green/blue cables).
10. Pull the aerial motor cables through the rubber grommet.
11. Slacken the lower mounting nut securing the aerial assembly to the mounting bracket, slide the assembly free and detach the lower earth bonding strap.
12. Remove the aerial from beneath the wing together with the mounting rubbers and distance collar.

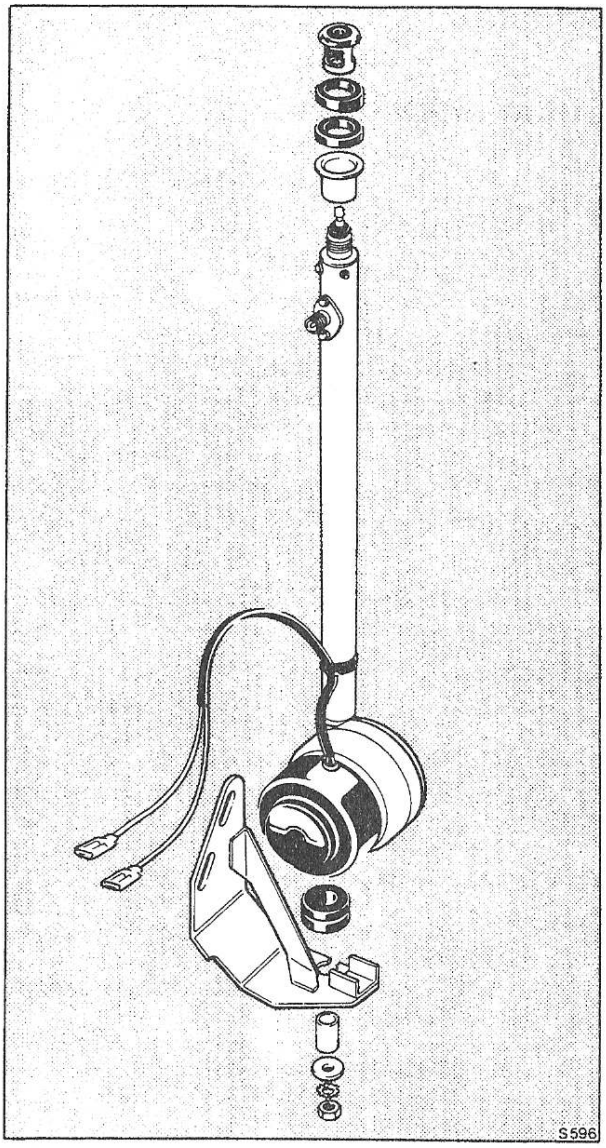

Fig. M79 Front aerial

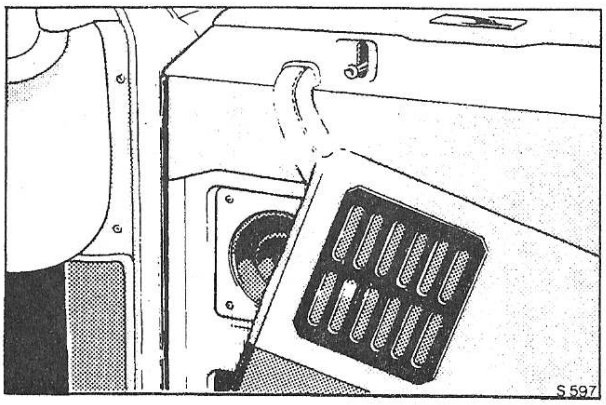

Fig. M80 Front speaker (Camargue)

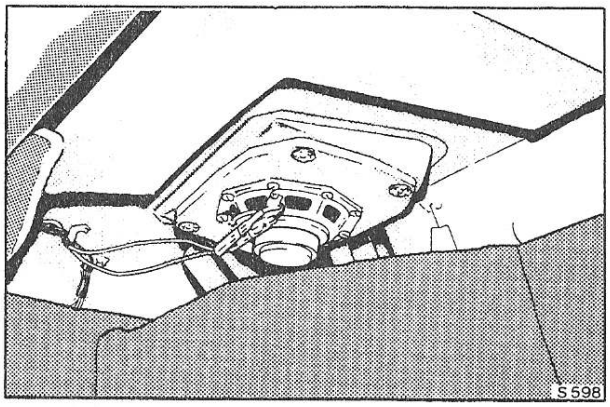

Fig. M81 Rear speaker (Camargue)

Aerial - To fit

Reverse the procedure given for removal, noting the following points:

1. Ensure that the distance collar abutts the underwing surface in the same relative position before removal.
2. Ensure that both aerial bonding straps are securely tightened.

Rear aerial and relay

The rear aerial and relay are fitted behind the right-hand side trim in the luggage compartment. The aerial is raised and lowered automatically as the rear radio is switched on and off.

Relay - To test

1. Remove the side trim to gain access to the relay.
2. Remove the black/green cable from W1. Insulate the cable.
3. Switch on the ignition.
4. Using a test lamp between earth and the green/brown cable at C2, verify that C2 is 'live' and verify also that the white cable at C1 is 'live'.
5. Connect the test lamp between C3 (red cable) and earth, the lamp should remain extinguished.
6. Connect C2 to W1 (energising the coil), the test lamp attached to C3 should now be lit. The aerial should also be extended.
7. Remove the shorting link from C2 and W1, the test lamp should be extinguished and the aerial lowered.
8. Switch off the ignition and reconnect the black/green cable to W1.

Section M9

In-car entertainment Fault diagnosis

Malfunction	Possible cause	Action
Complete system failure (including aerial)	Fuse 'blown'	Switch off the radio and tape player and replace fuse 20. If the fuse 'blows' again, a short circuit is present and should be traced by isolating the aerial circuit.
	No live feed to fuse 20.	Test for live feed on the brown/light green cable at fuseboard B and switchbox.
Radio and tape player inoperative, aerial satisfactory.	Radio line fuse 'blown' or faulty fuseholder	Check fuse and fuseholder.
	Poor connection.	Check the green/slate cable at the line fuse, tape/radio loom socket and radio/tape changeover relay board. Check the green/brown cable at line fuse and fuseboard 'B'. Check the slate/black cable at tape loom socket and ensure that the socket is secure.
Tape player inoperative, radio satisfactory.	Radio/tape change-over relay faulty	Replace relay.
	Poor connections	Check green/slate cable at changeover relay, choke and tape player socket.
	Tape player faulty	Replace tape player
Front radio faulty, tape player and rear radio (when fitted)satisfactory	Radio faulty	Replace radio
	Poor connection	Check the red and slate/black cables at radio and changeover relay board.
	Aerial	Check aerial connections at radio and aerial mast.
Rear radio faulty, tape player and front radio satisfactory.	Radio faulty	Replace radio
	Poor connections	Check the red cable from changeover relay to rear radio.
	Poor earth	Check black cable at division switch, tape track change switch, rear balance control and division earth point.
	Aerial	Verify that aerial is connected. (A short length of cable connected to the aerial socket will serve as a substitute).
Front and rear radios faulty, tape player satisfactory.	Changeover relay board	Replace relay board. Check red cable at relay

Loudspeaker fault diagnosis when cartridge player is fitted.

Malfunction	Possible cause	Action
Left-hand front speaker not working on radio or cartridge player.	Speaker	Substitute speaker
	Poor connection	Check slate and slate/green cables at speaker and left-hand door socket. Check slate/brown cable at tape loom socket and changeover relay.
Left-hand front speaker not working on radio Cartridge player satisfactory.	Poor connection	Check slate/red cable from balance control to changeover relay board
	Faulty contact in change-over relay board	Substitute board.
Left-hand front speaker not working on cartridge player. Radio satisfactory	Cartridge player faulty	Replace player
	Poor connection	Check green cable between cartridge player socket and changeover relay board.
	Changeover relay board faulty	Substitute board.
Left-hand rear speaker not working on radio or cartridge player	Speaker	Replace speaker
	Poor connection	Check co-axial cable from speaker to LB9 to TL7. Check slate/yellow cable from TL7 to changeover relay board.
	Changeover relay board faulty	Substitute board
Left-hand rear speaker not working on radio, cartridge player satisfactory.	Poor connection	Check slate/green cable from balance control to changeover relay board
	Faulty contact in change-over relay board	Substitute board
Left-hand rear speaker not working on cartridge player. Radio satisfactory	Cartridge player faulty	Replace player
	Poor connection	Check green/red cable from player socket to change-over relay board
	Changeover relay board faulty	Substitute board
Right-hand front speaker not working on radio or cartridge player	Speaker	Replace speaker
	Poor connection	Check slate and slate/black cables from speaker to RD7. Check slate/purple cable from TL7 to changeover relay board.

Malfunction	Possible cause	Action
	Changeover relay board faulty	Substitute relay board.
Right-hand front speaker not working on radio, Cartridge player satisfactory.	Poor connection	Check slate/blue cable from balance control to changeover board.
	Faulty contact in changeover relay board.	Substitute board.
Right-hand front speaker not working on cartridge player. Radio satisfactory	Cartridge player faulty	Replace cartridge player
	Poor connection	Check slate cable from player to changeover board.
	Changeover relay board faulty.	Substitute board.
Right-hand rear speaker not working on radio or cartridge player.	Speaker	Replace speaker
	Poor connection	Check co-axial cable from speaker to RB9 to TL7. Check slate/white cable from TL7 to changeover relay board.
	Changeover relay board faulty.	Substitute relay board.
Right-hand rear speaker not working on radio. Cartridge player satisfactory.	Poor connection	Check slate/green cable from balance control to changeover relay
	Faulty contact in changeover relay board.	Substitute board.
Right-hand rear speaker not working on cartridge player. Radio satisfactory.	Cartridge player faulty	Replace player.
	Poor connection	Check red/slate cable from player socket to changeover relay board.
	Changeover relay board faulty.	Substitute board.

Loudspeaker fault diagnosis when cassette player is fitted

Malfunction	Possible cause	Action
Left-hand speakers not working on cassette player or radio.	Poor connection	Check the connections of the pink cable between the changeover board and balance control. Also check the connector joining the pink and slate/pink cable at the balance control.
Right-hand speakers not working on cassette player or radio.	Poor connection	Check the connections of the orange cable between the changeover board and balance control. Also check the connector joining the orange and slate/orange cable at the balance control.

One speaker does not work on cassette player or radio.	Speaker faulty	Replace speaker
	Poor connector.	Check the cables at the appropriate door or body socket and also the cable and connectors between the balance control and tape loom socket.

In-car entertainment

Component location
(all cars except Silver Wraith II with division)
Fig. M82

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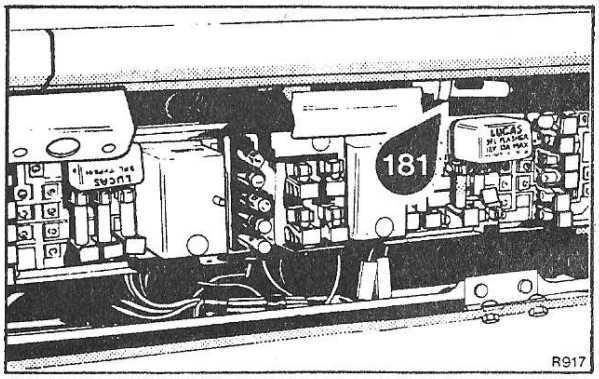

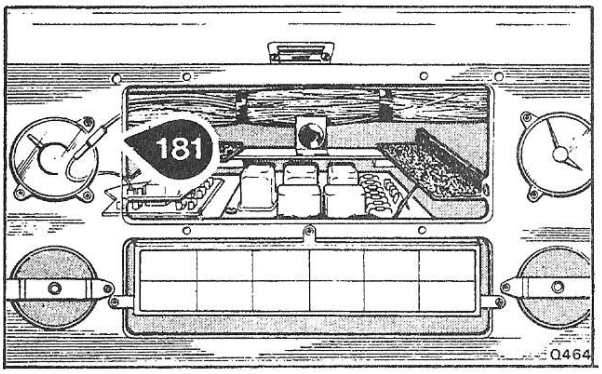

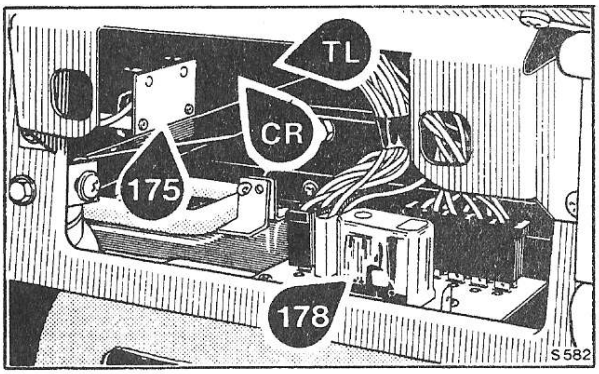

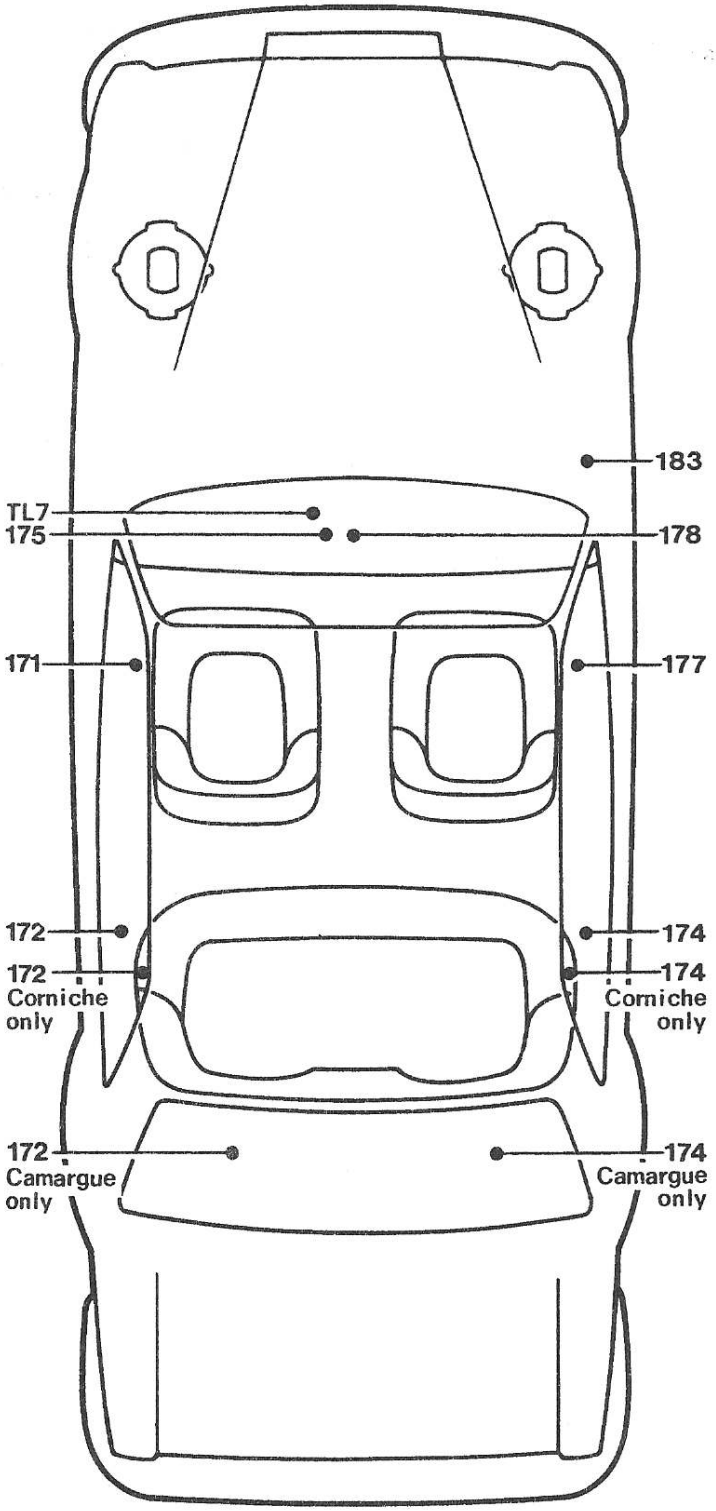

Components

5	Ignition switch
17	Fuseboard
171	Left-hand front speaker
172	Left-hand rear speaker
173	Right-hand front speaker
174	Right-hand rear speaker
175	Tape player choke
176	Tape player socket
177	Tape player
178	Radio/tape changeover relay
179	Front balance controls
180	Front radio
181	Radio line fuse
182	Front aerial switch
183	Front aerial
CR	Changeover relay socket
TL	Tape Icom socket

In-car entertainment

Schematic wiring diagram
(all cars except Silver Wraith II with division
Fig. M83

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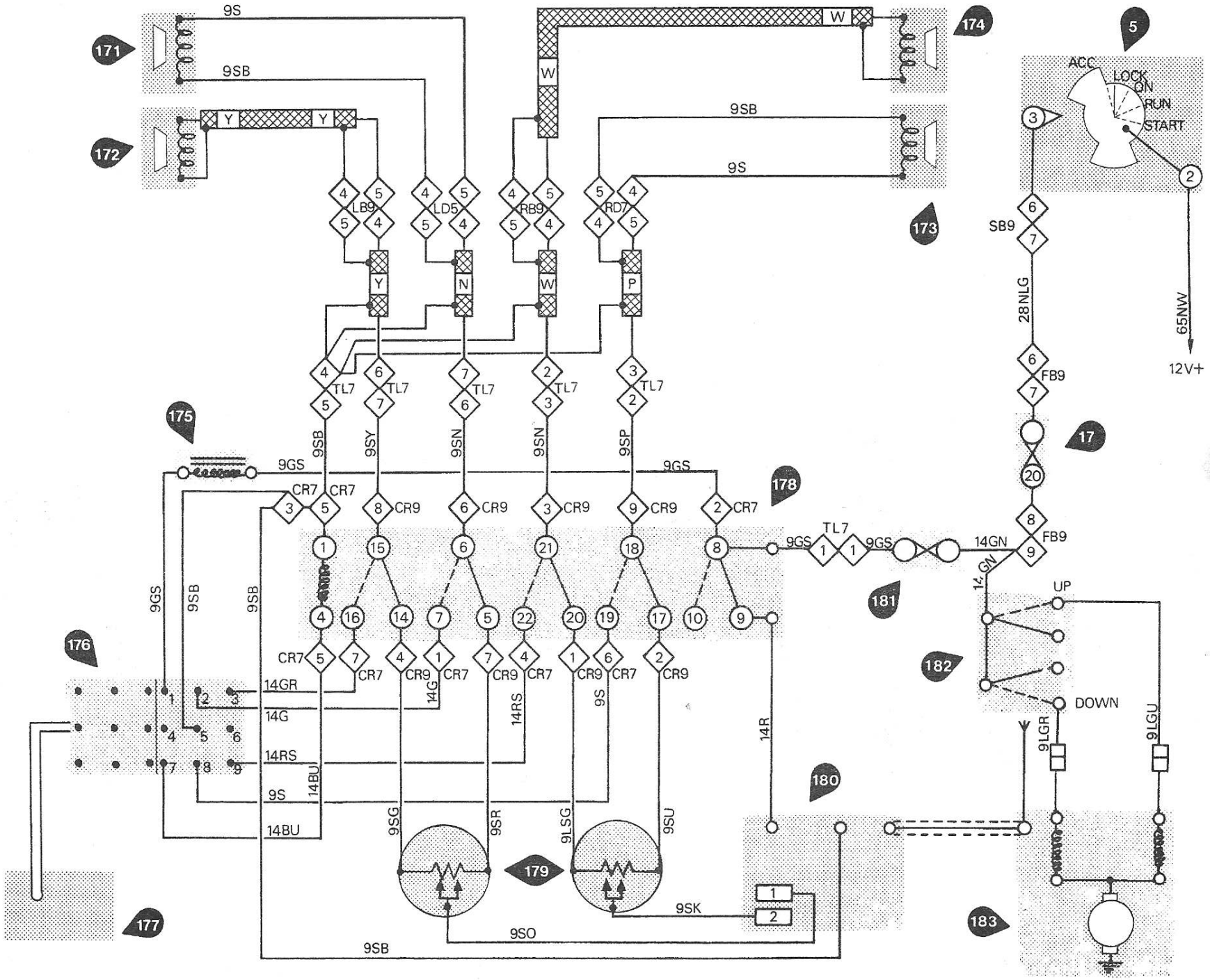

In-car entertainment

Component location
(Silver Wraith II with division)
Fig. M84

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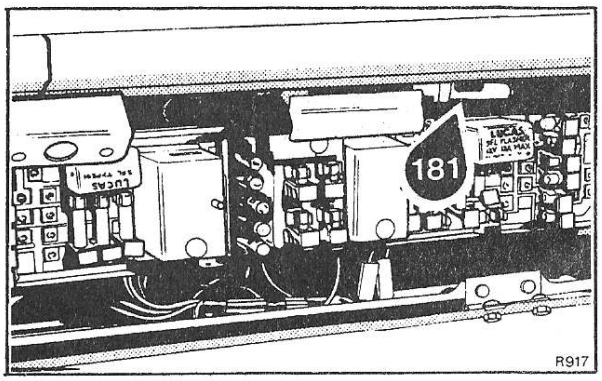

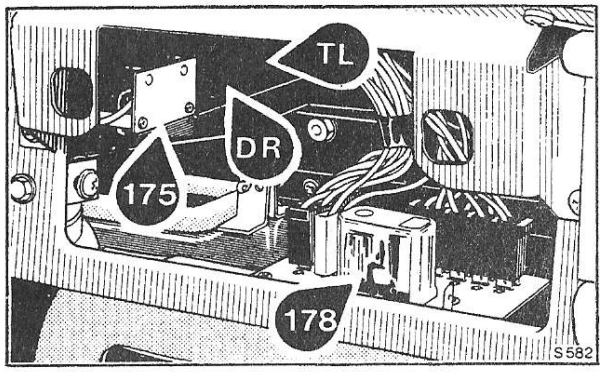

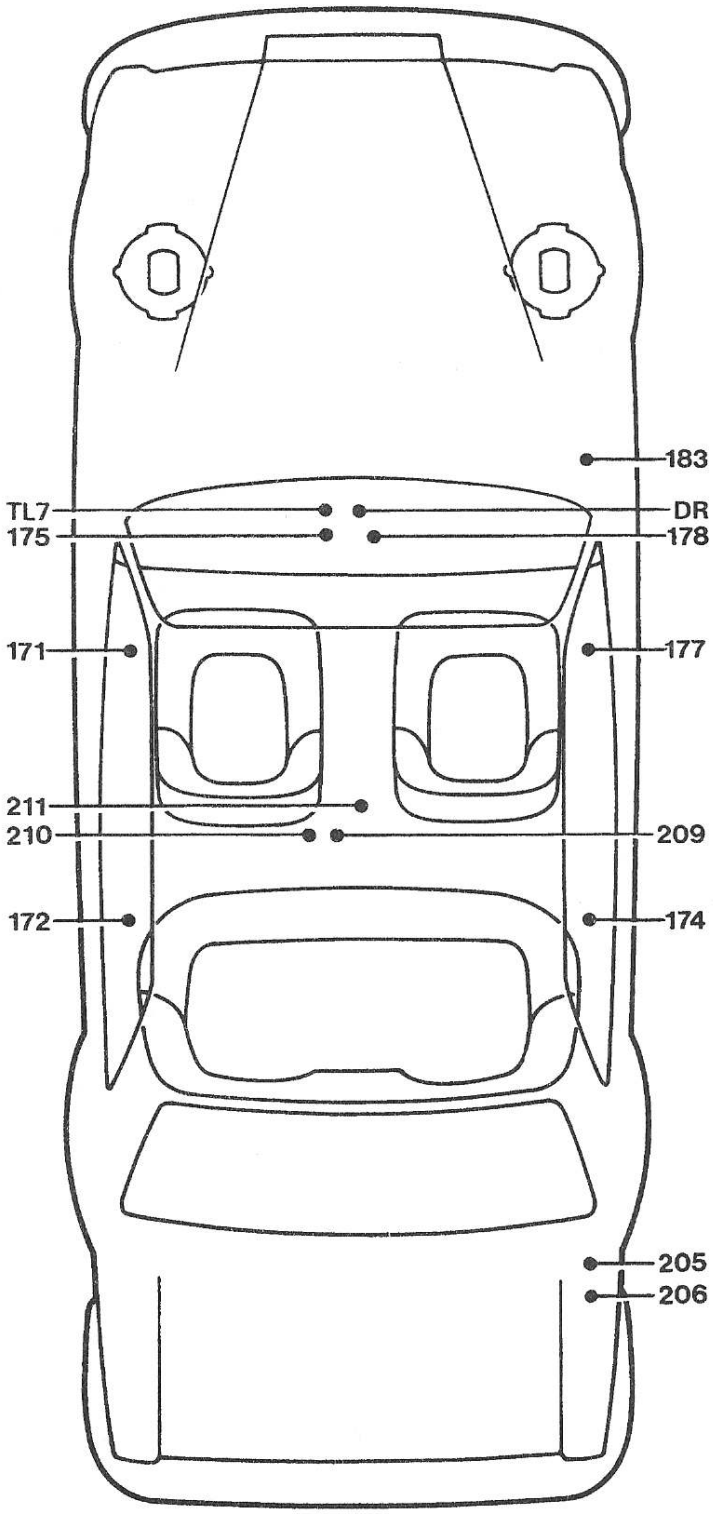

Components

5	Ignition switch
17	Fuseboard
44	Right-hand boot earth
171	Left-hand front speaker
172	Left-hand rear speaker
173	Right-hand front speaker
174	Right-hand rear speaker
175	Tape player choke
176	Tape player socket
177	Tape player
178	Radio/tape changeover relay
181	Radio line fuse
182	Front aerial switch
183	Front aerial
205	Rear aerial motor
206	Rear aerial relay
207	Rear radio
208	Division switch
209	Track change switch
210	Rear balance controls
211	Division earth
TL	Tape loom socket
DR	Division radio socket

In-car entertainment

Schematic wiring diagram
(Silver Wraith II with division)
Fig. M85

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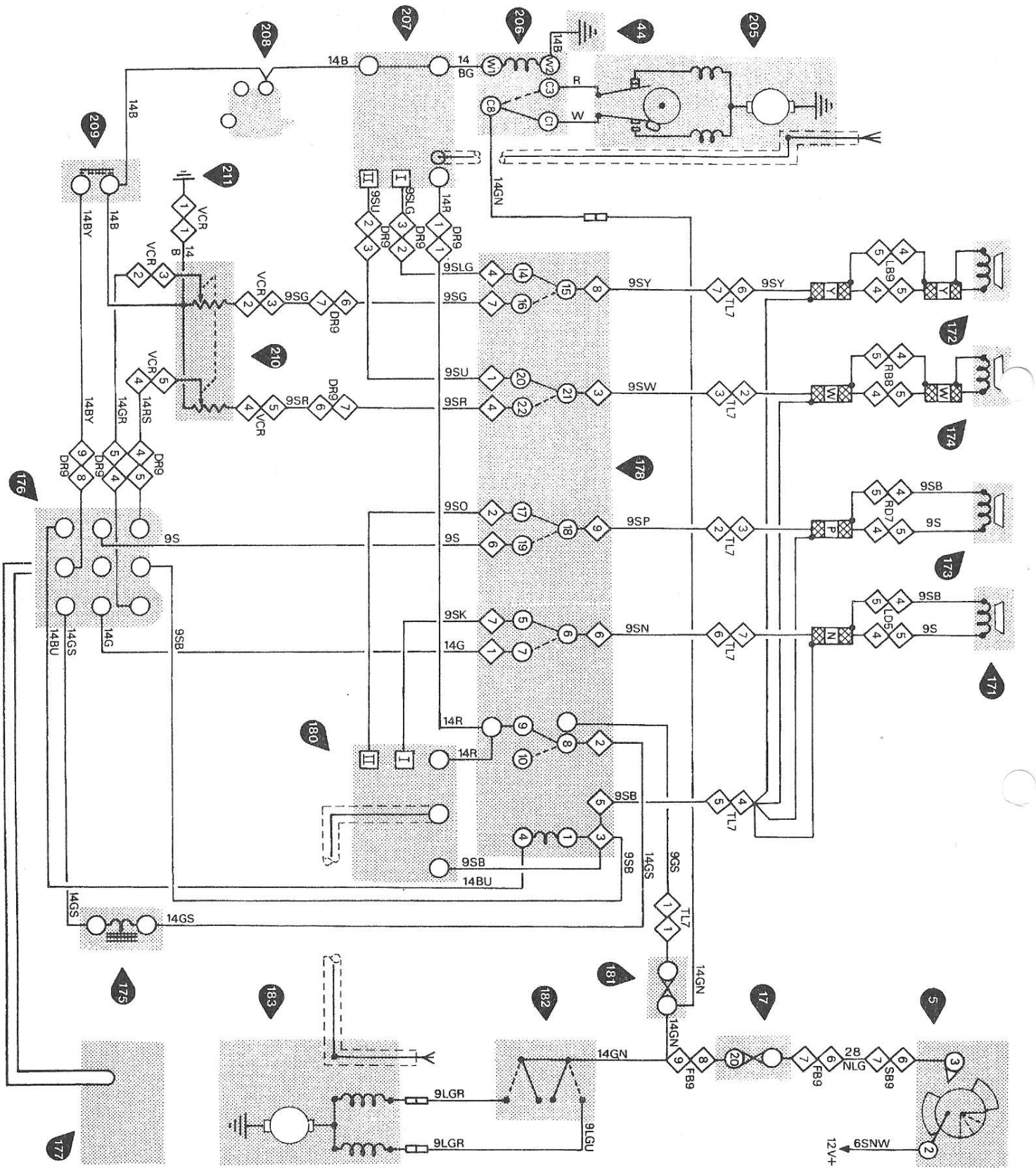

Section M9

Supplement number 1
In-car entertainment
Contents

From car serial numbers

Silver Shadow II	- SRX 34573
Silver Wraith II	- LRG 34601
Bentley T2	- SBH 34775
Corniche Saloon	- CRH 34830
Corniche Convertible	- DRX 33029

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TSD 4200

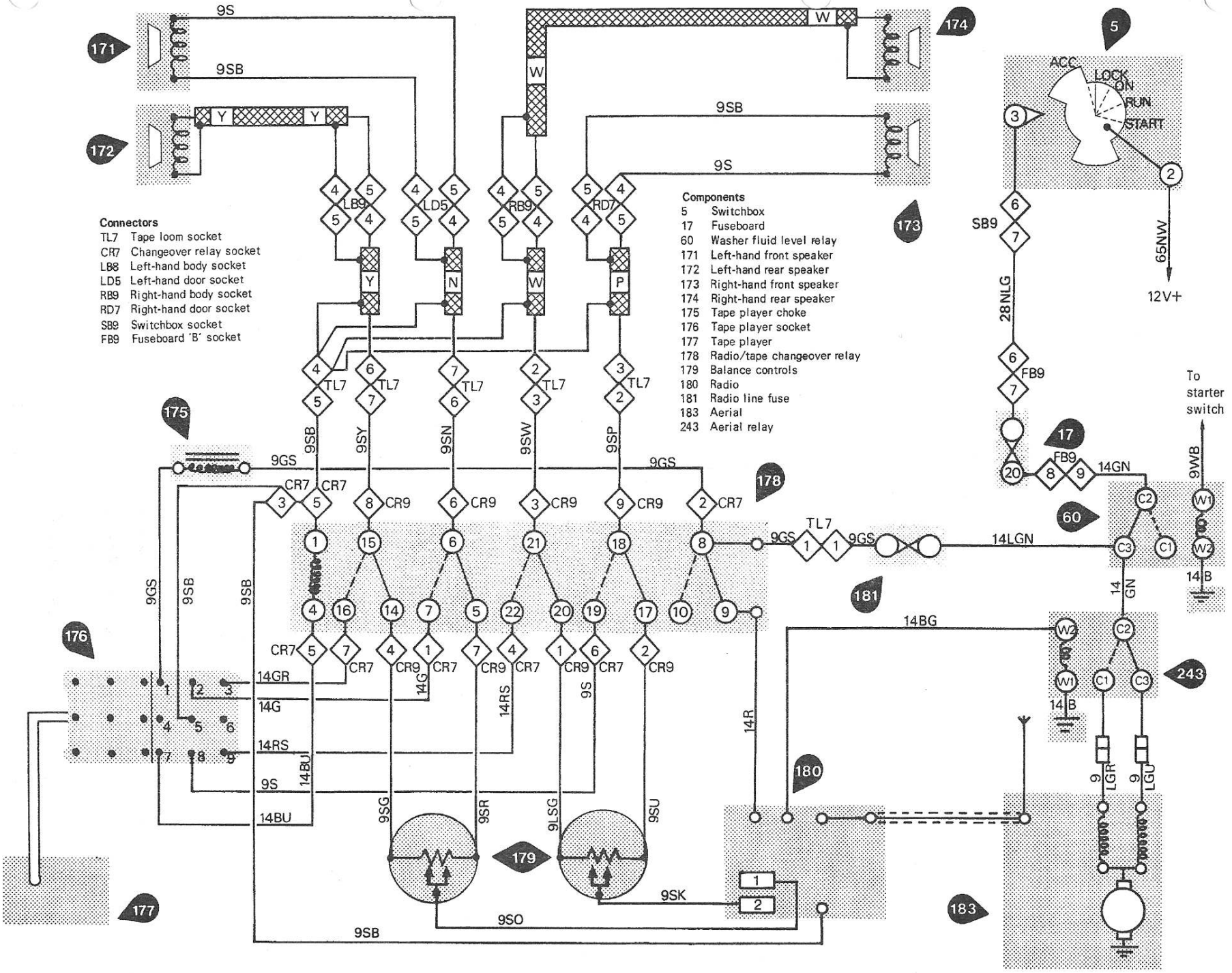
Section M9

Supplement number 1
In-car entertainment

Schematic wiring diagram
Applicable to cars fitted
with a cartridge player
From car serial numbers

Silver Shadow II	-	SRX 24573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M1 Supp. 1



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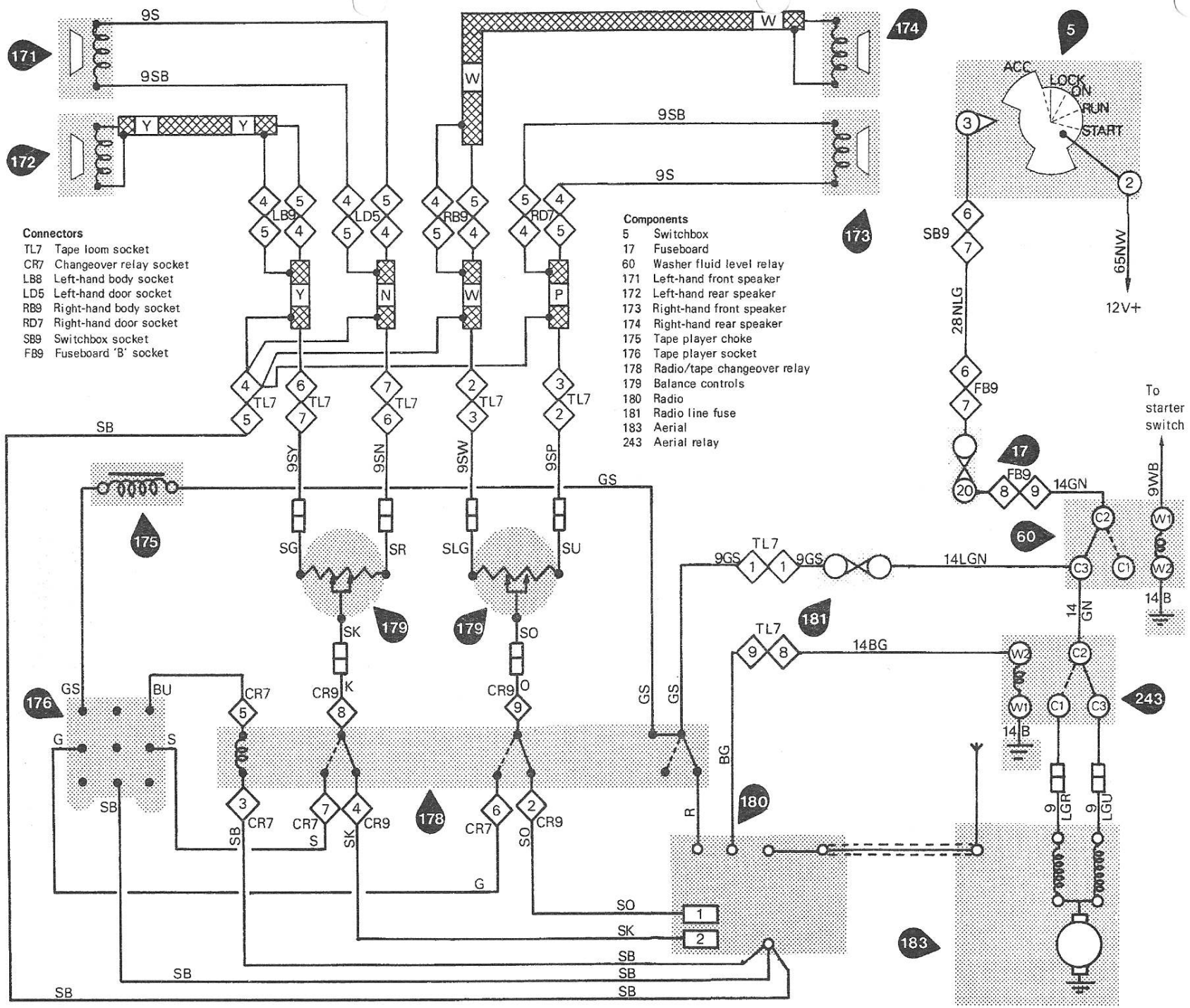
Section M9

Supplement number 1
In-car entertainment

Schematic wiring diagram
Applicable to cars fitted
with a cassette player
From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M2 Supp. 1



Section M9

Supplement number 1
Automatic aerial
Fault diagnosis

Component location

From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M3 Supp. 1

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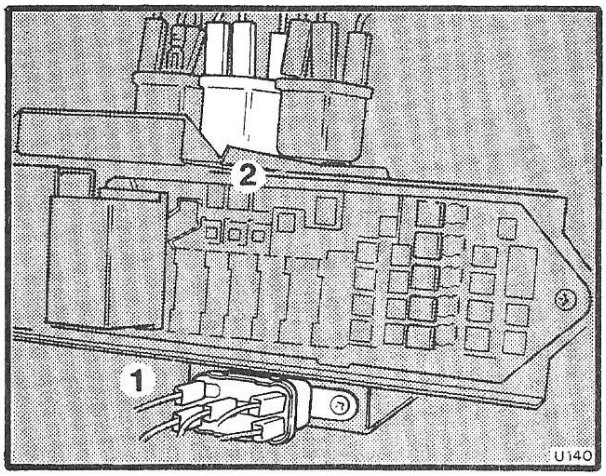
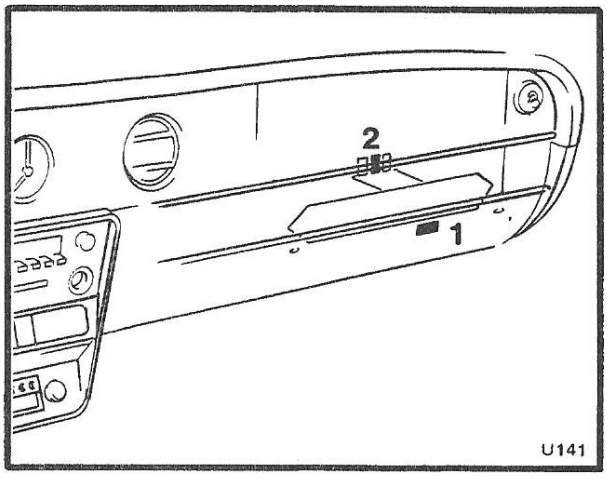
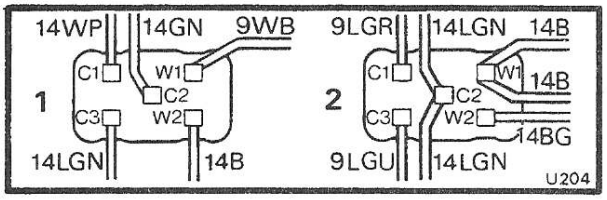


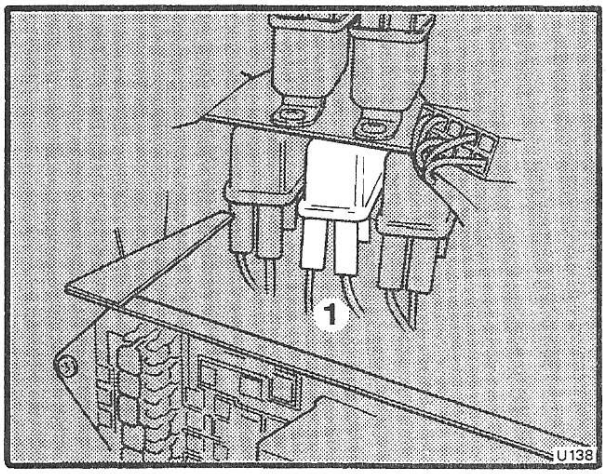
Aerial relay and washer fluid level relay left-hand drive cars



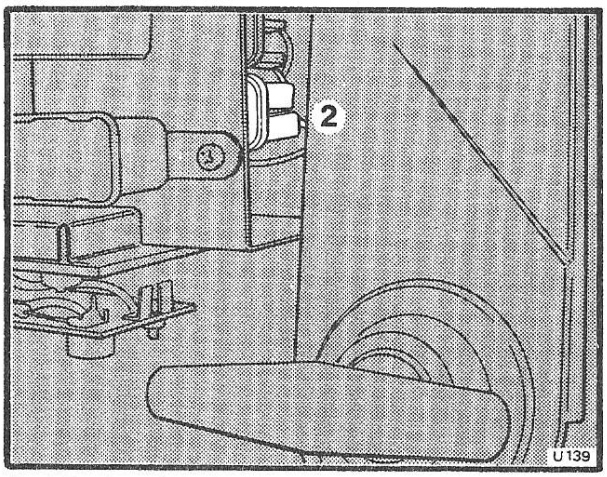
Location left-hand drive cars



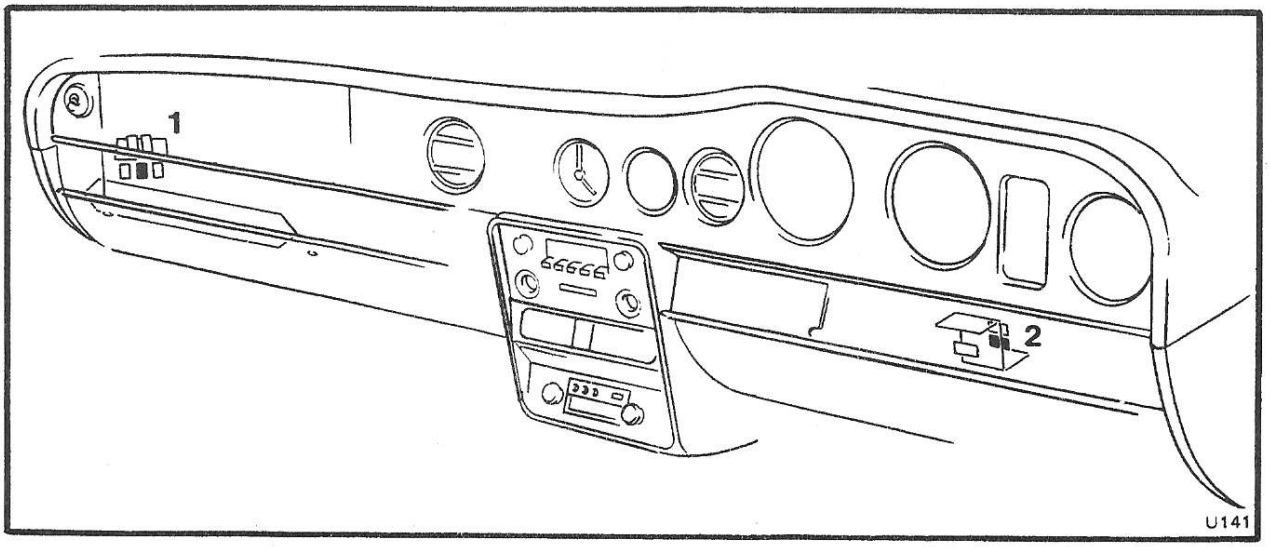
1. Washer fluid level relay
2. Aerial relay



Washer fluid level relay right-hand drive cars



Aerial relay right-hand drive cars



Location right-hand drive cars

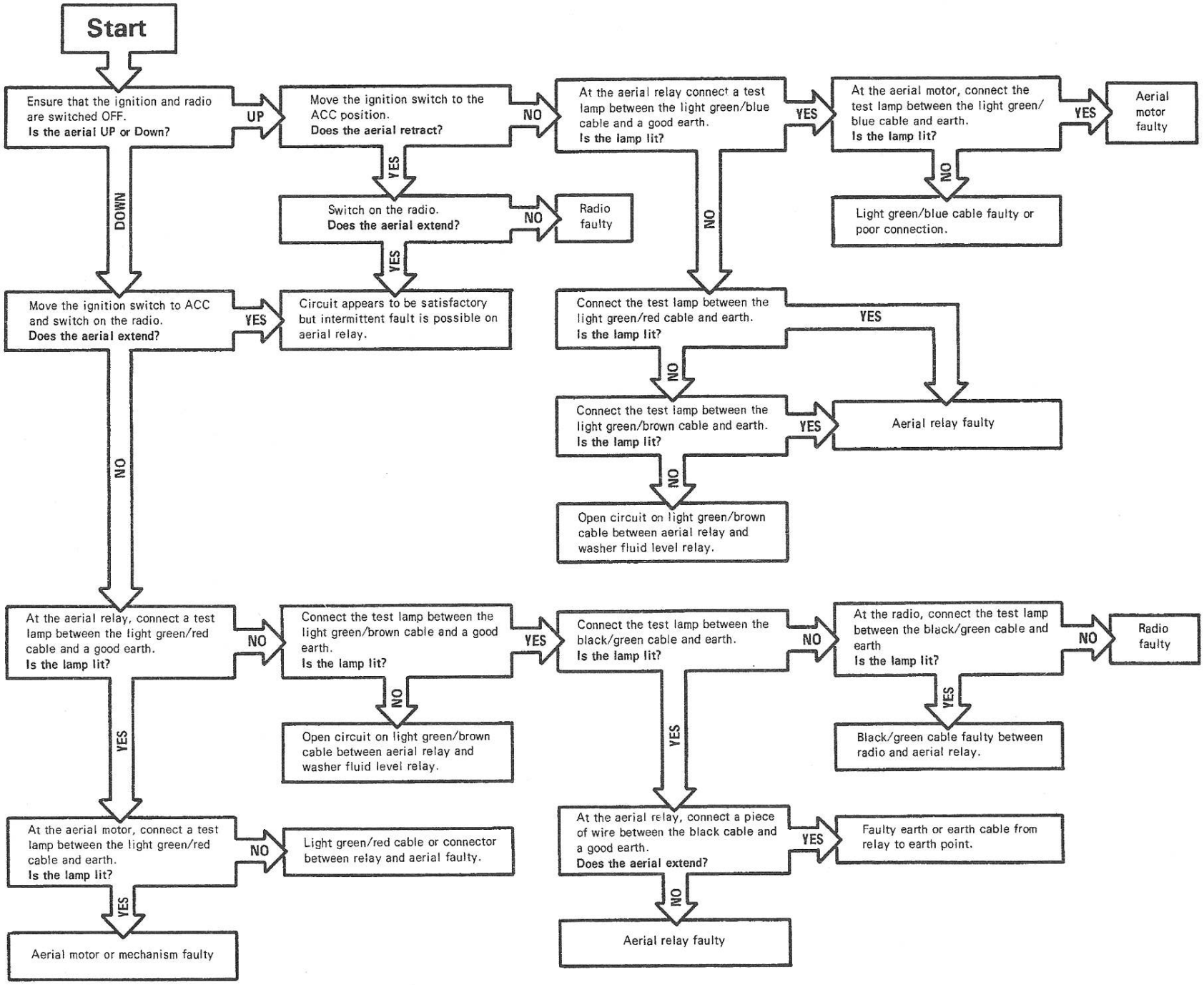
Section M9

Supplement number 1
Automatic aerial
Fault diagnosis

From car serial numbers

Silver Shadow II	-	SRX 34573
Silver Wraith II	-	LRG 34601
Bentley T2	-	SBH 34775
Corniche Saloon	-	CRH 34830
Corniche Convertible	-	DRX 33029

Fig. M4 Supp. 1



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