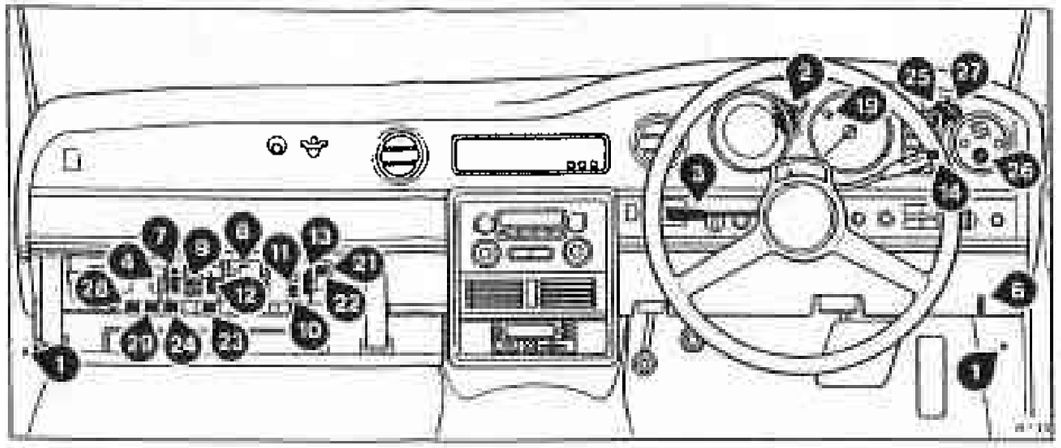
Warning lamps and instruments

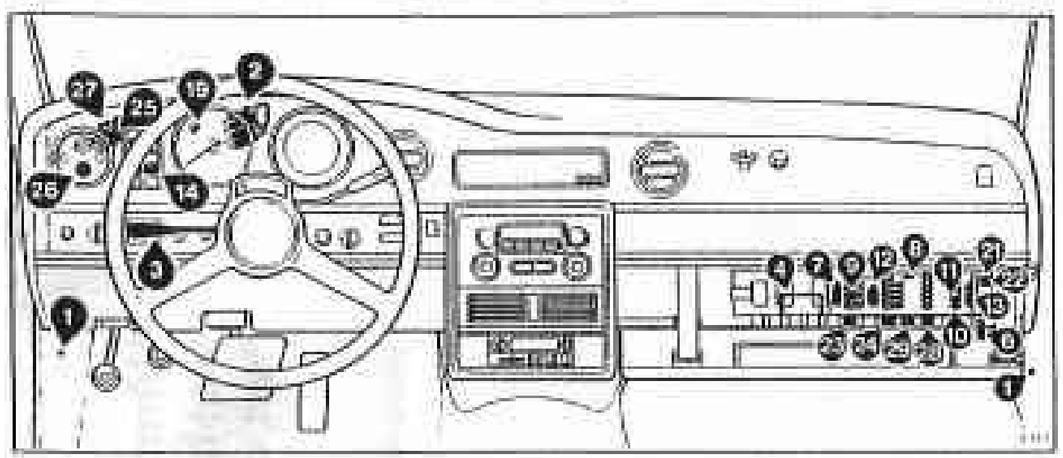
Contents

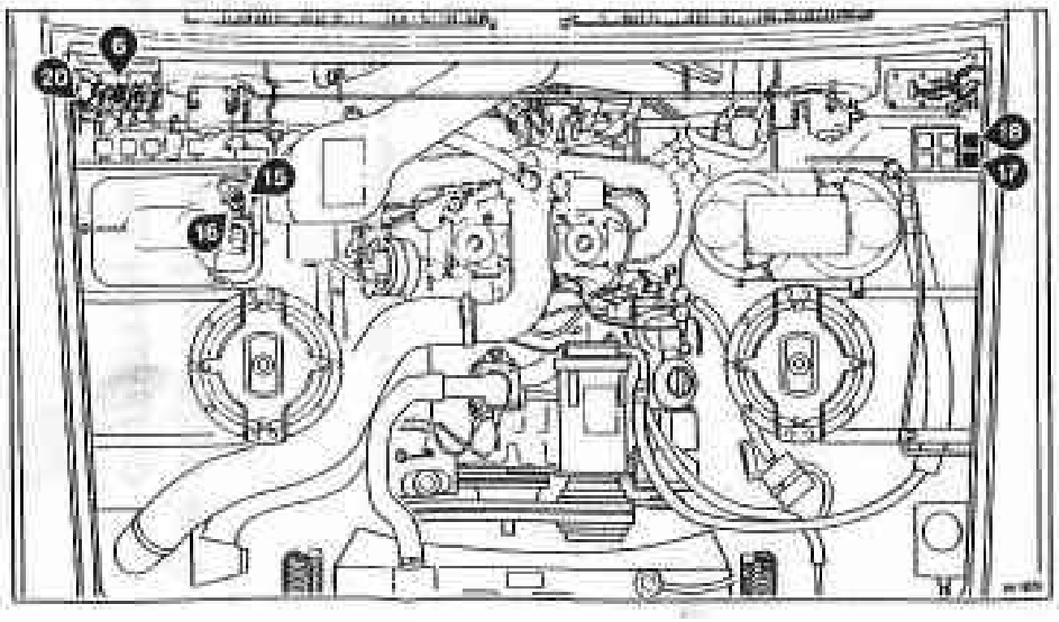
TSD 4400

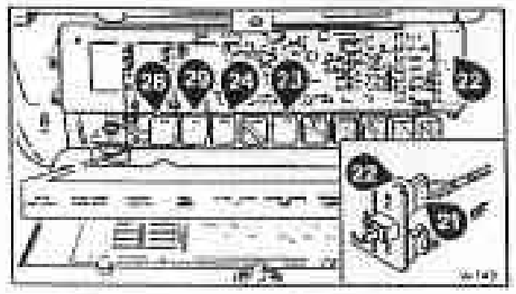
Windscreen and headlamp washer fluid level warning and test circuits

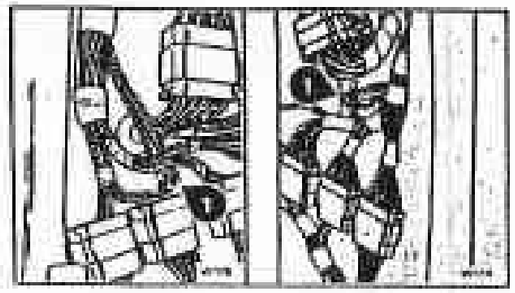
Wiring diagram and component location

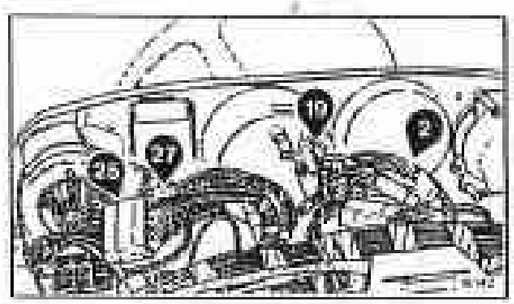


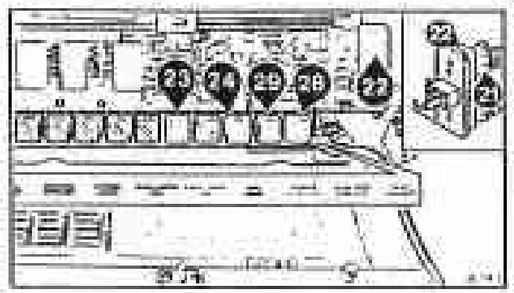


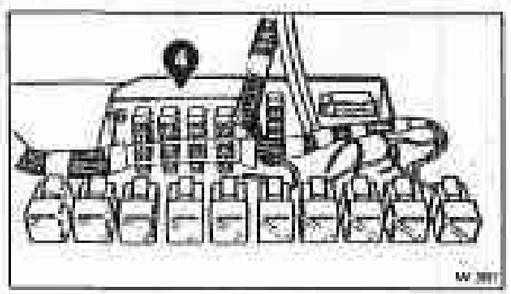


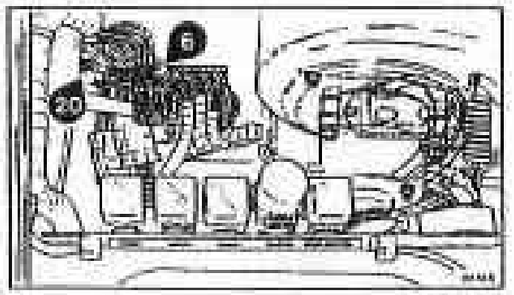


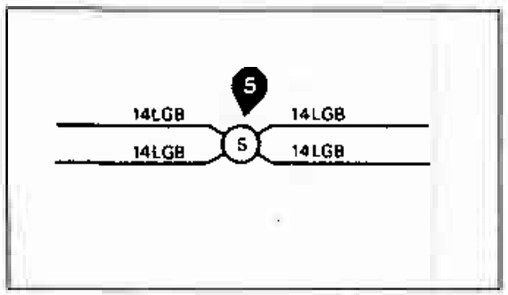


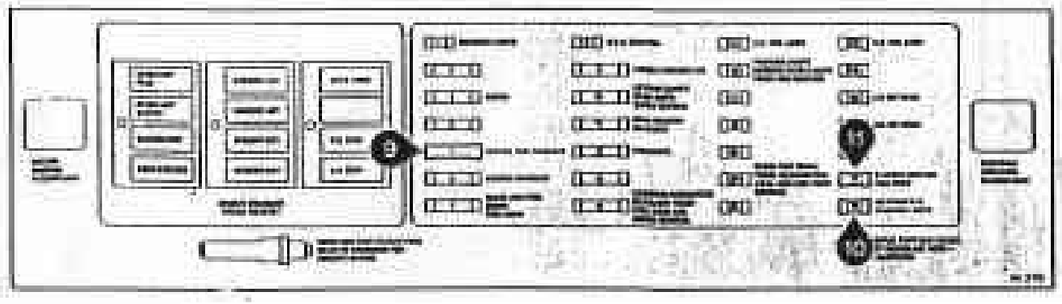








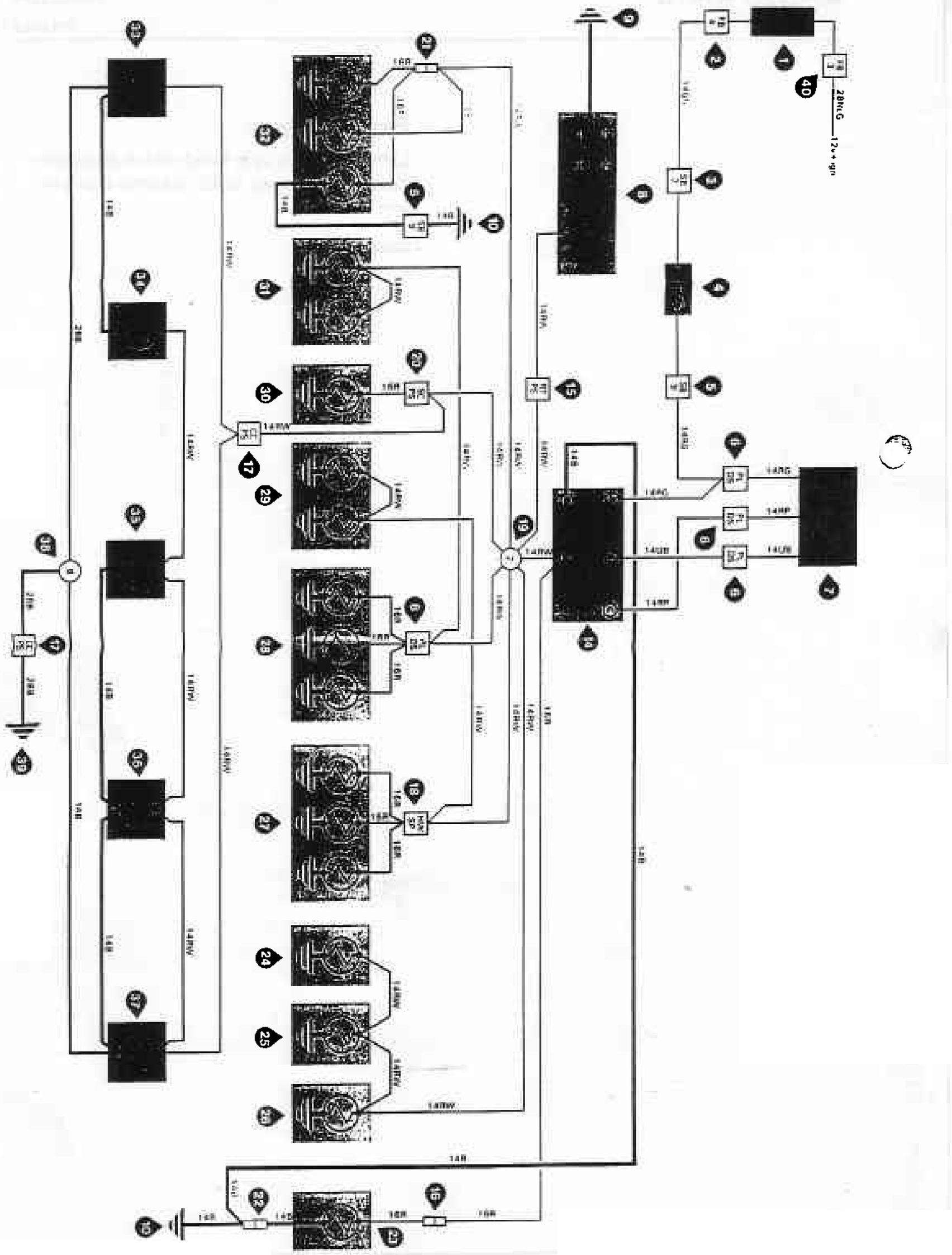

5
14LGB
14LGB
14LGB
14LGB



Panel lamps

Left-hand drive cars fitted with a Blaupunkt Toronto combined radio/cassette tape play unit

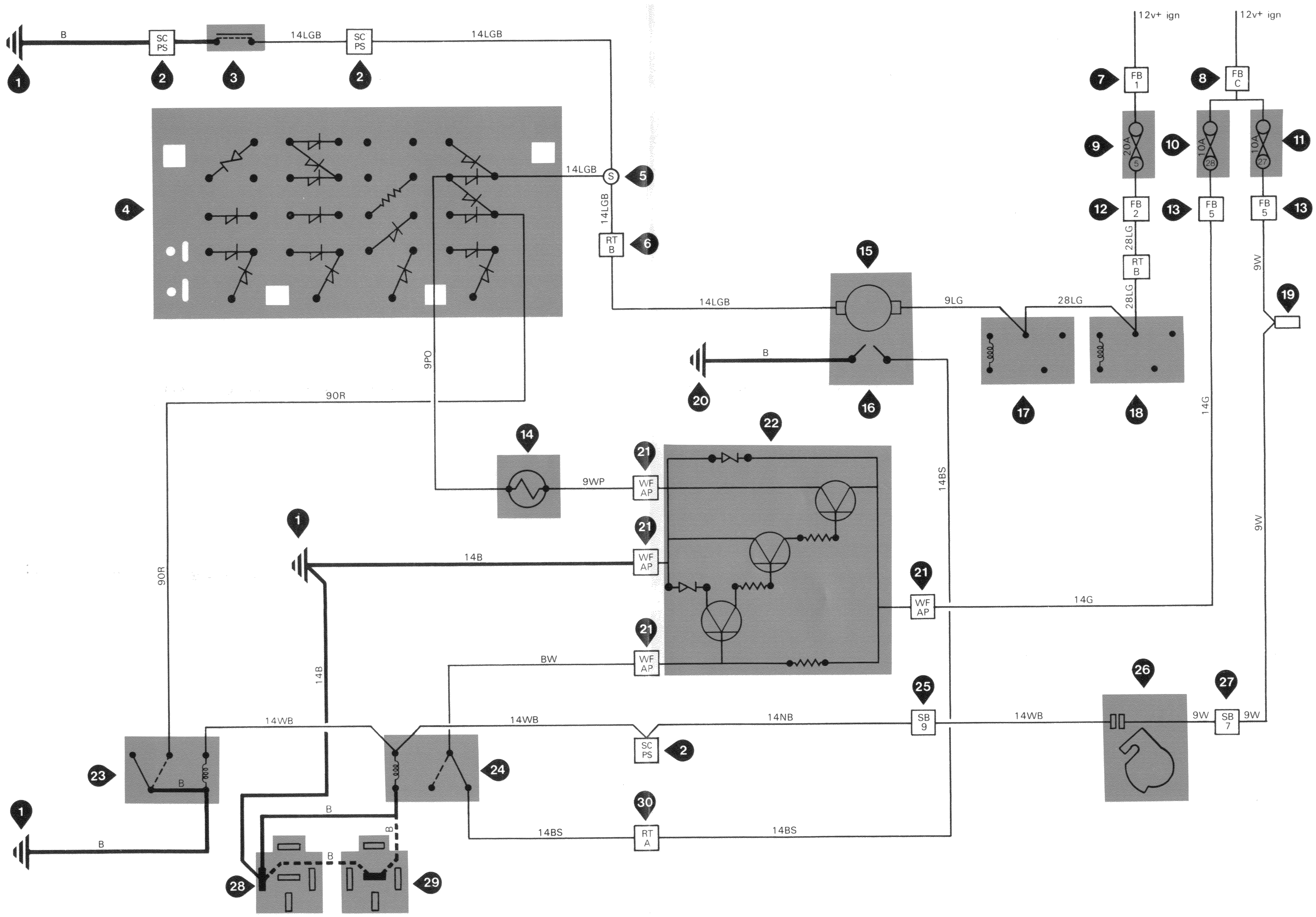
Wiring diagram



Windscreen and headlamp washer fluid level warning and test circuits

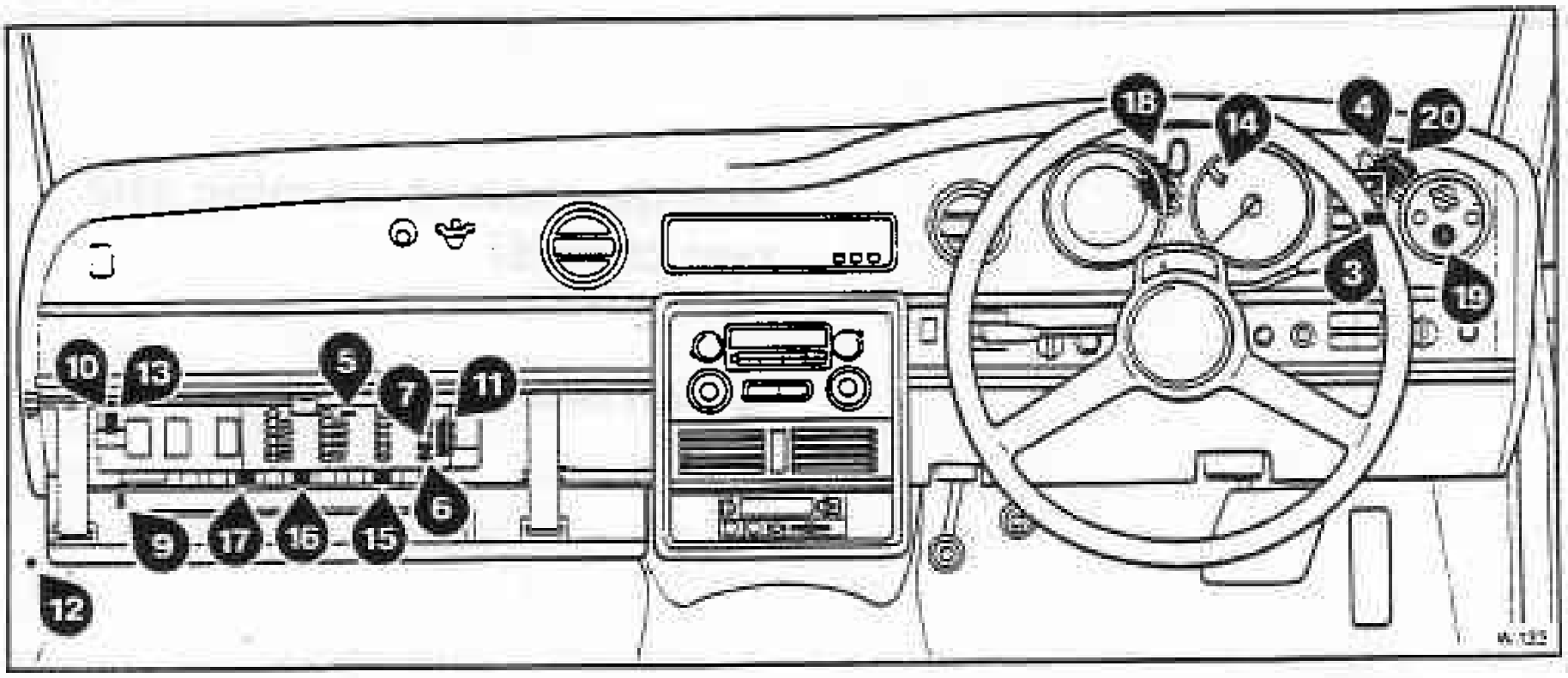
Wiring diagram and component location

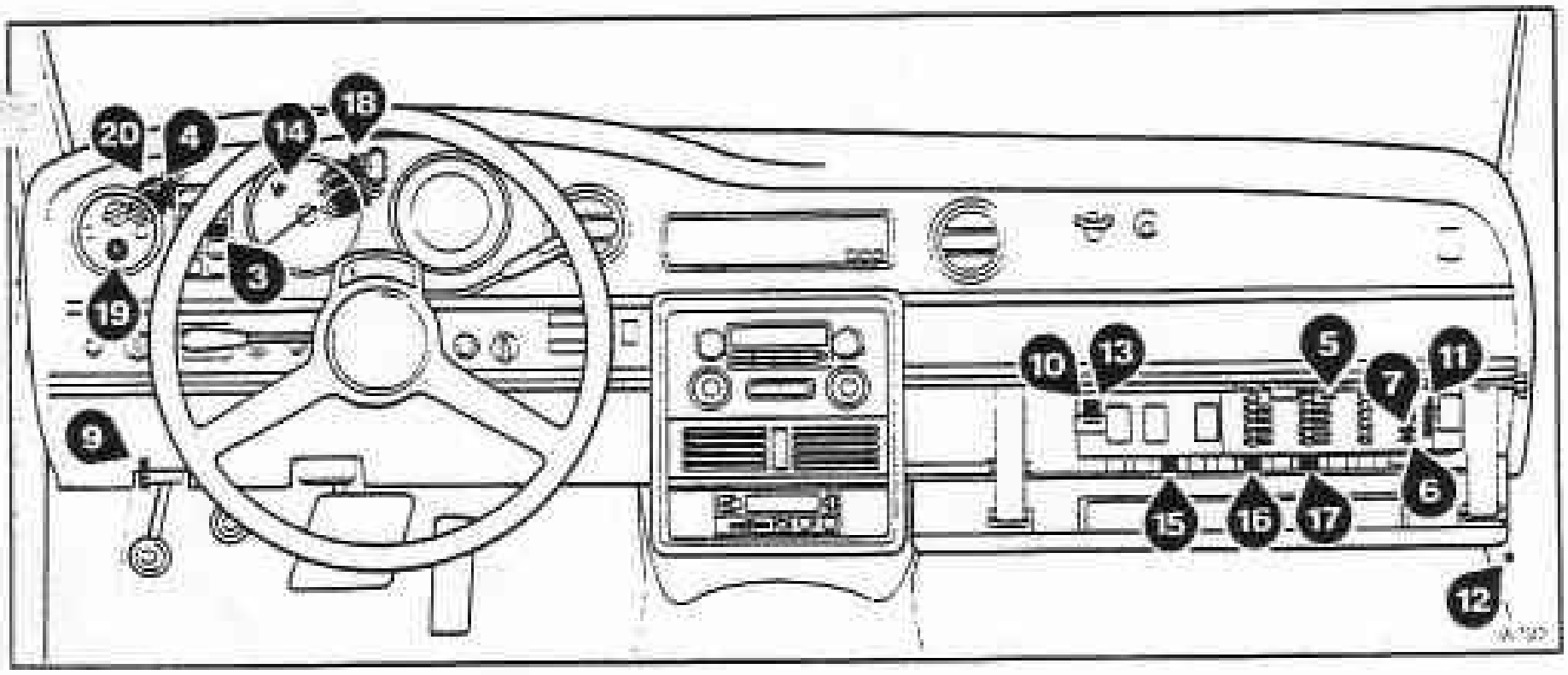
July 1982

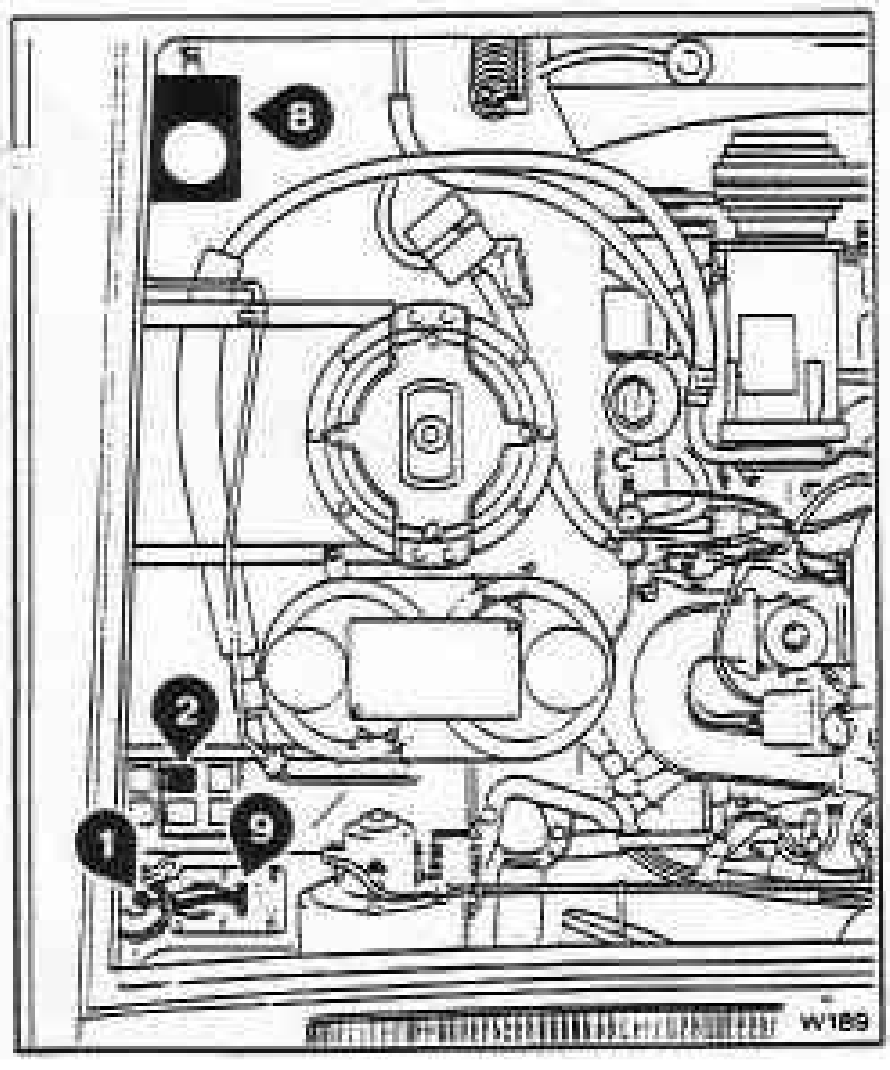

B
SC PS
14LGB
12v+ ign
FB 1
FB C
20A
10A
FB 2
FB 5
28LG
RT B
S
9LG
9W
9PO
90R
9WP
WF AP
14B
14G
14BS
BW
14WB
14NB
SB 9
SB 7
RT A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

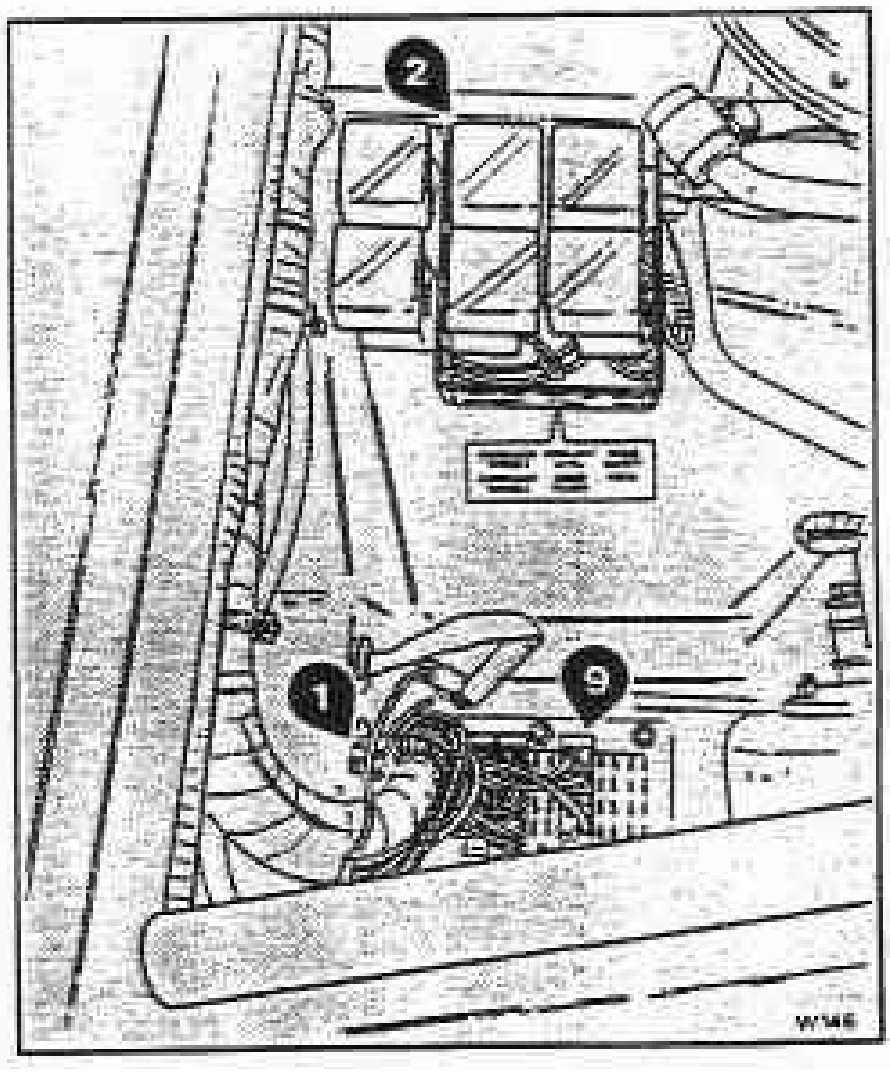
Engine coolant warning and test circuits

Component location


18
14
4
20
3
19
10
13
5
7
11
6
9
17
16
15
12

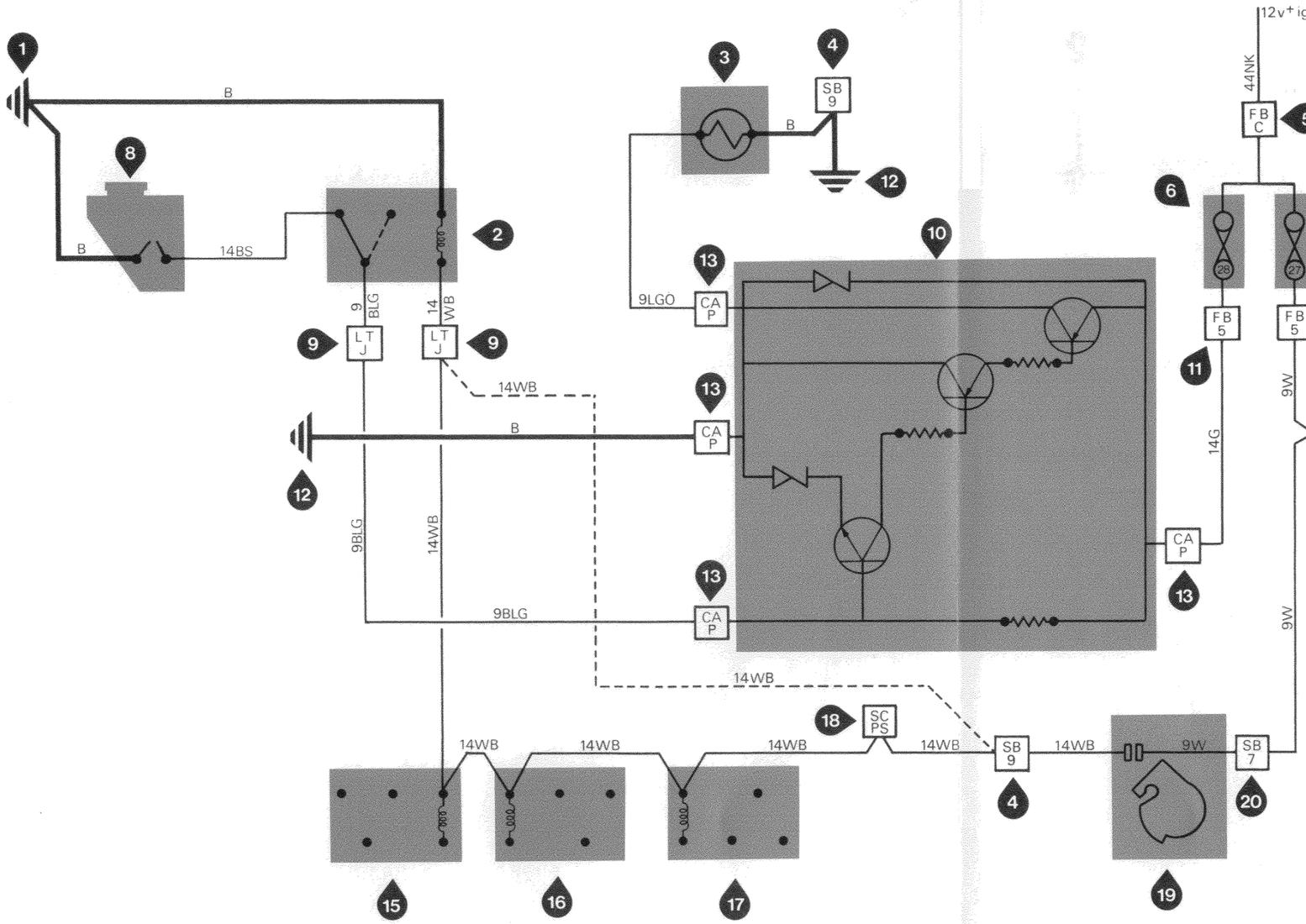

20
4
14
18
3
19
9
10
13
5
7
11
6
15
16
17
12

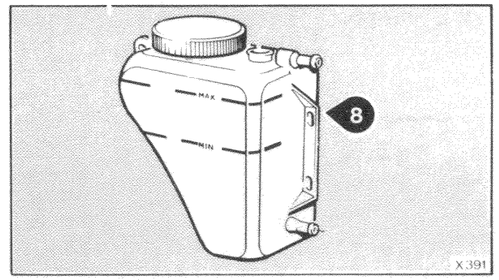

8
2
1
9
W169

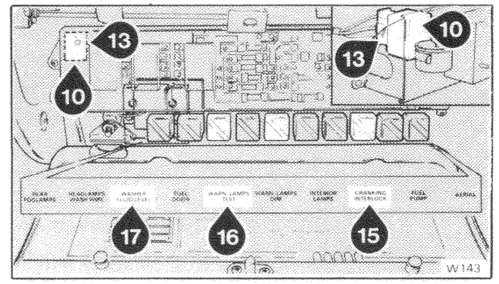

2
1
9
W146

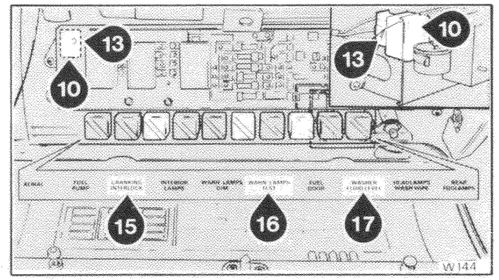
Engine coolant warning and test circuits

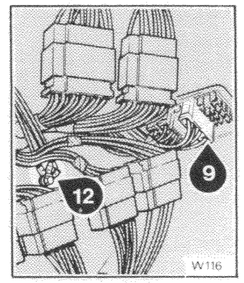
Wiring diagram

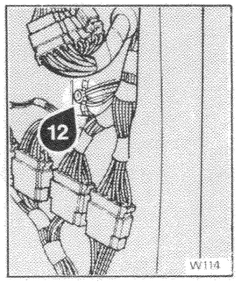

1
B
8
B
14BS
2
3
4
SB 9
B
12
10
13
9LGO
CA P
9 BLG
14 WB
LT J
9
14WB
B
12
9BLG
14WB
9BLG
14WB
18
SC PS
14WB
14WB
14WB
14WB
SB 9
4
14WB
9W
SB 7
20
15
16
17
19
12v+ ign
44NK
FB C
5
6
7
28
27
FB 5
FB 5
11
11
14G
9W
9W
14
CA P
13

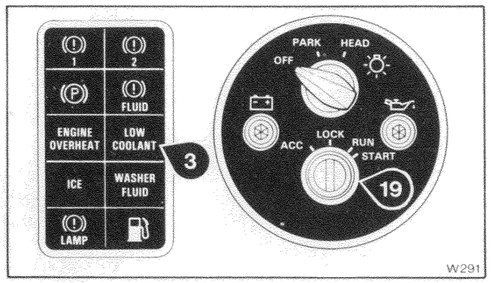

MAX
MIN
8
X391

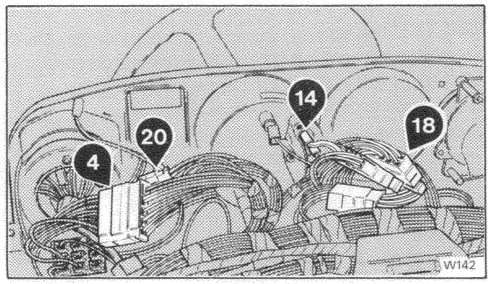

13
10
13
10
17
16
15
W143

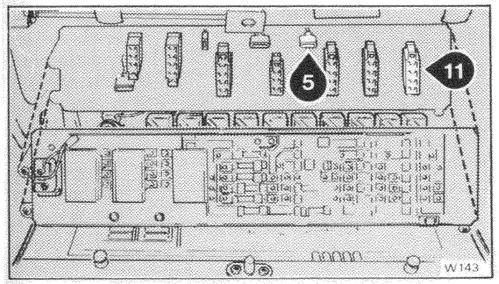

13
10
13
10
15
16
17
W144

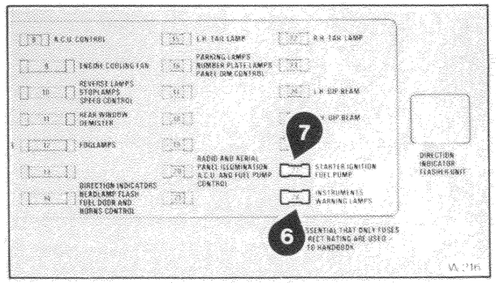

12
9
W116


12
W114


PARK
HEAD
OFF
ACC
LOCK
RUN
START
1
2
FLUID
ENGINE OVERHEAT
LOW COOLANT
ICE
WASHER FLUID
LAMP
3
19
W291

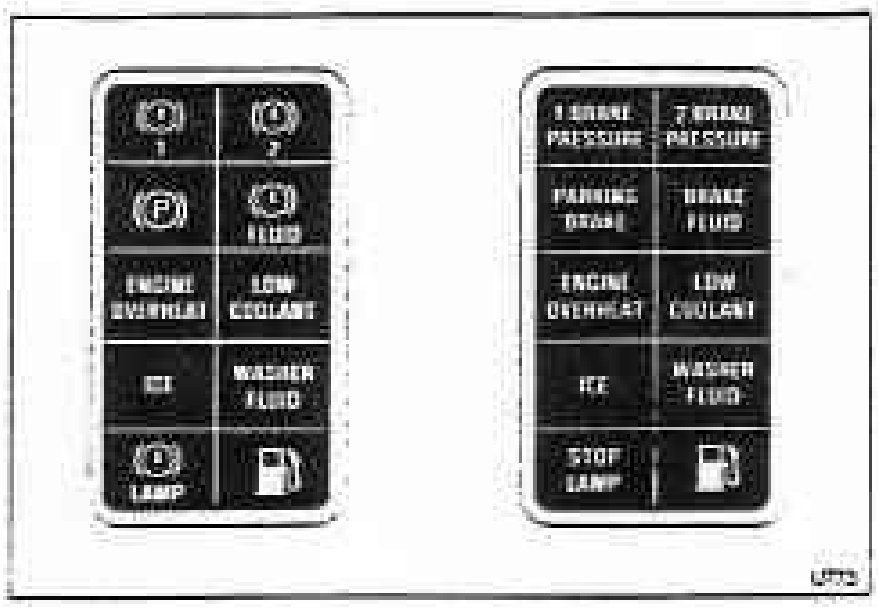

14
18
20
4
W142


5
11
W143

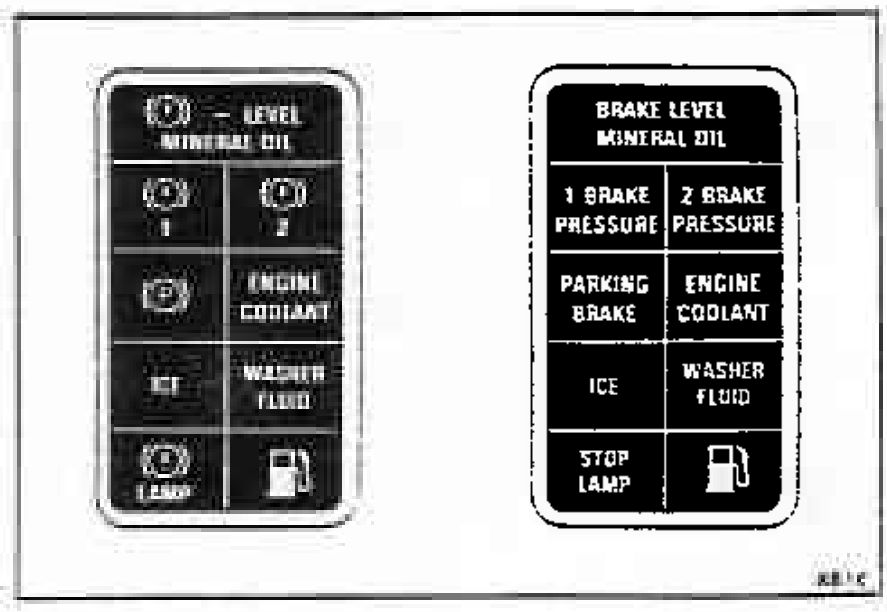

A.C.U. CONTROL
LH TAIL LAMP
RH TAIL LAMP
ENGINE COOLING FAN
PARKING LAMPS NUMBER PLATE LAMPS PANEL DIM CONTROL
REVERSE LAMPS STOP LAMPS SPEED CONTROL
LH DIP BEAM
HEAD WINDOW DEMISTER
RH DIP BEAM
FOGLAMPS
7
RADIO AND AERIAL PANEL ILLUMINATION A.C.U. AND FUEL PUMP CONTROL
STARTER IGNITION FUEL PUMP
DIRECTION INDICATORS HEADLAMP FLASH FUEL DOOR AND HORNS CONTROL
INSTRUMENTS WARNING LAMPS
DIRECTION INDICATOR FLASHER UNIT
6
ESSENTIAL THAT ONLY FUSES RECT RATING ARE USED TO HANDBOOK

Hydraulic system mineral oil levels, brake pressure warning, and test circuits

To determine which component location and wiring diagram to use for a particular car, reference must be made to the warning panels of the car as shown below.



For cars fitted with the above warning panels refer to the following pages.

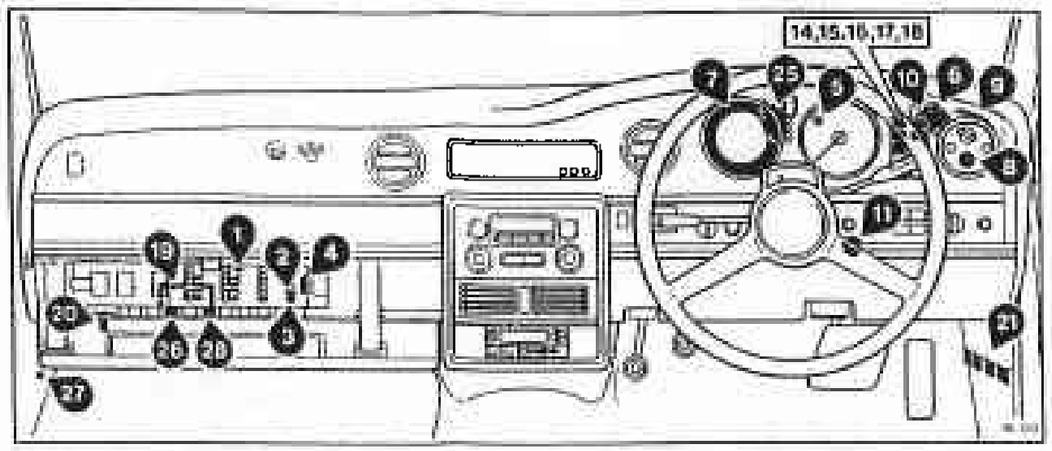


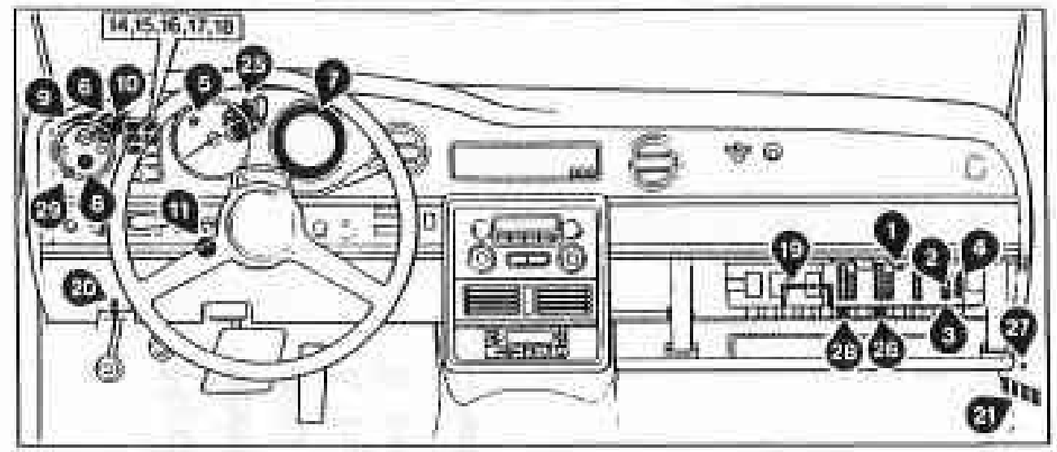
For cars fitted with the above warning panels refer to the following pages.

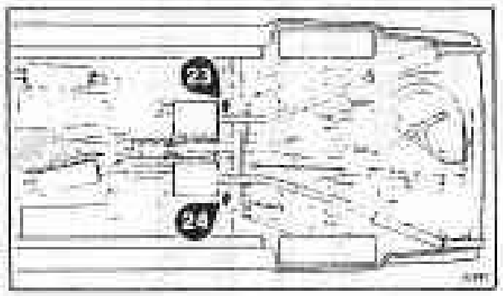
Hydraulic system mineral oil levels, brake pressure warning, and test circuits

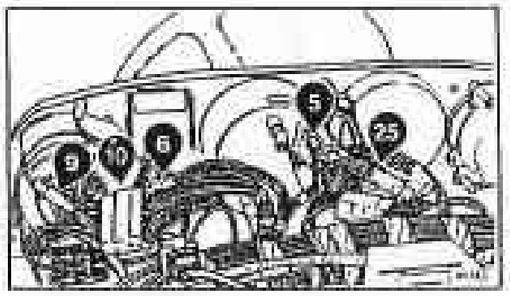
A Right-hand drive cars
B Left-hand drive cars

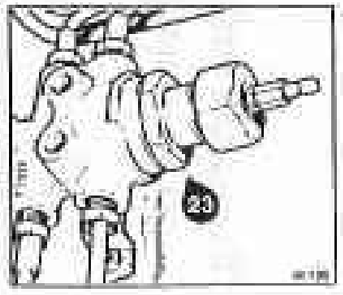
Component location

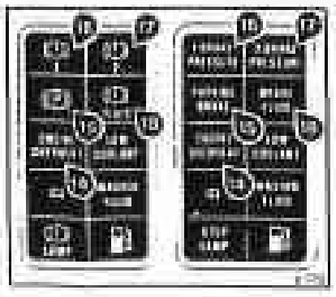

14,15,16,17,18

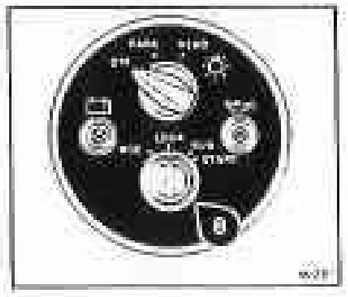

14,15,16,17,18

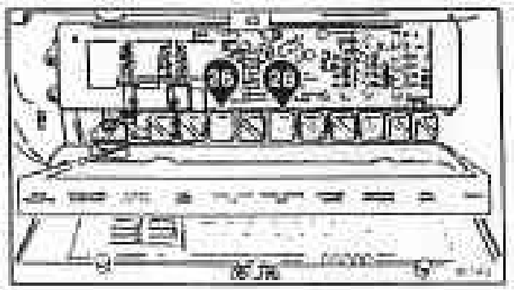


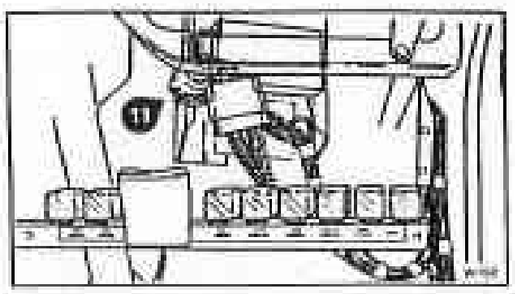


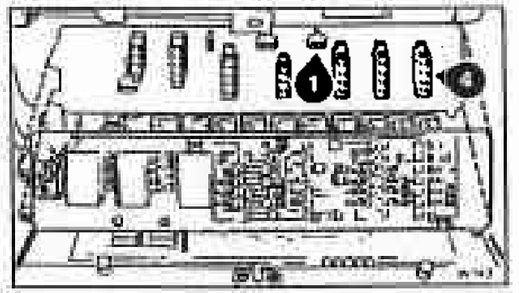


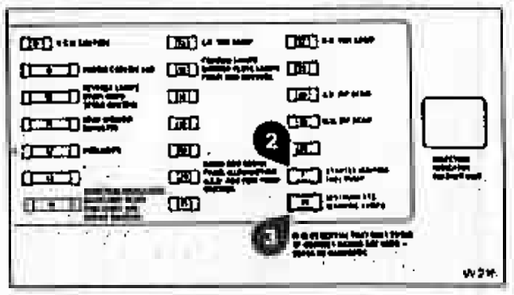


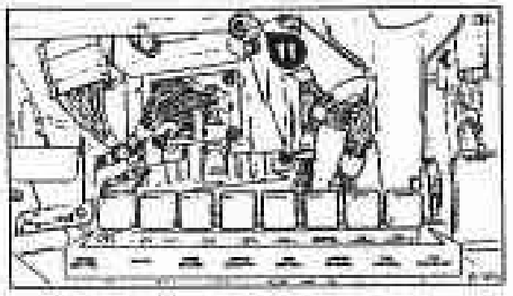


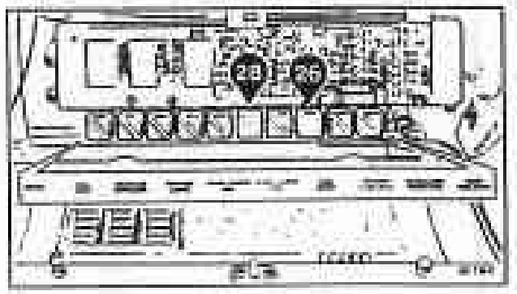


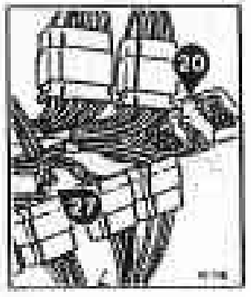


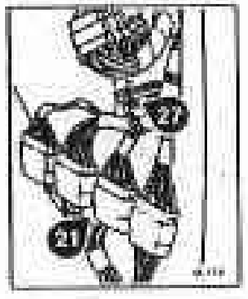


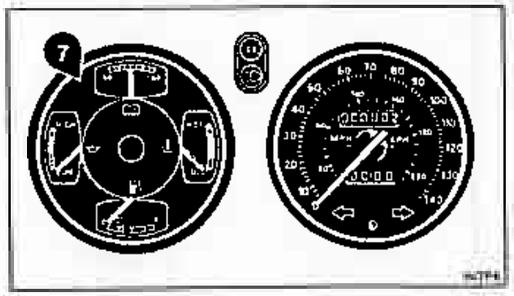


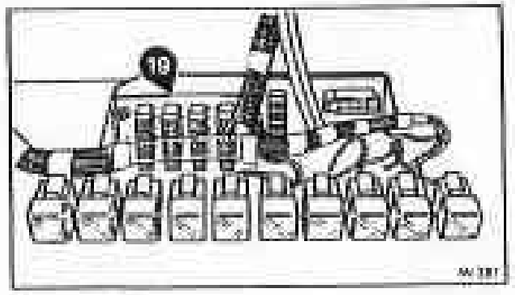


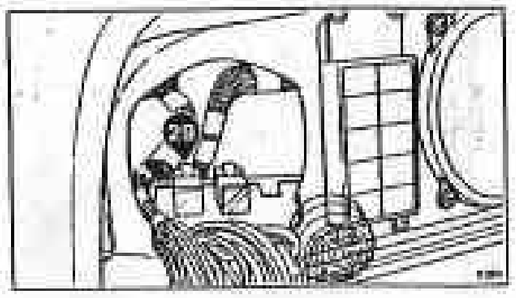


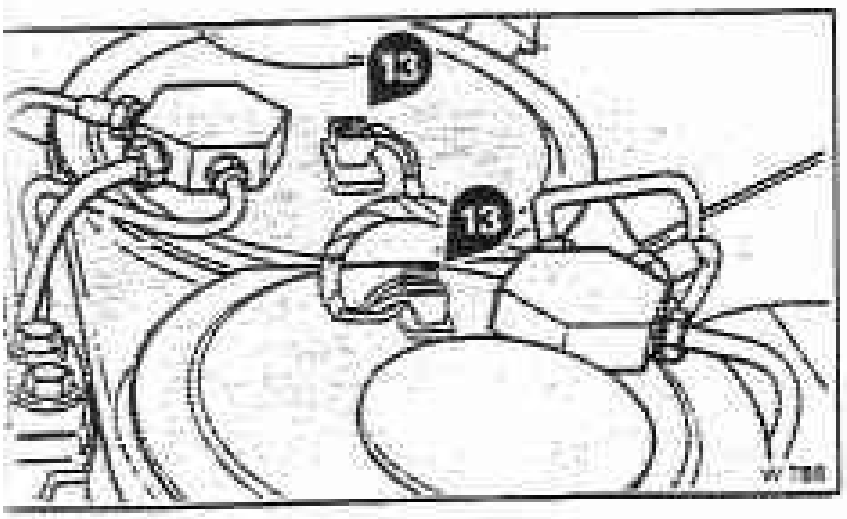


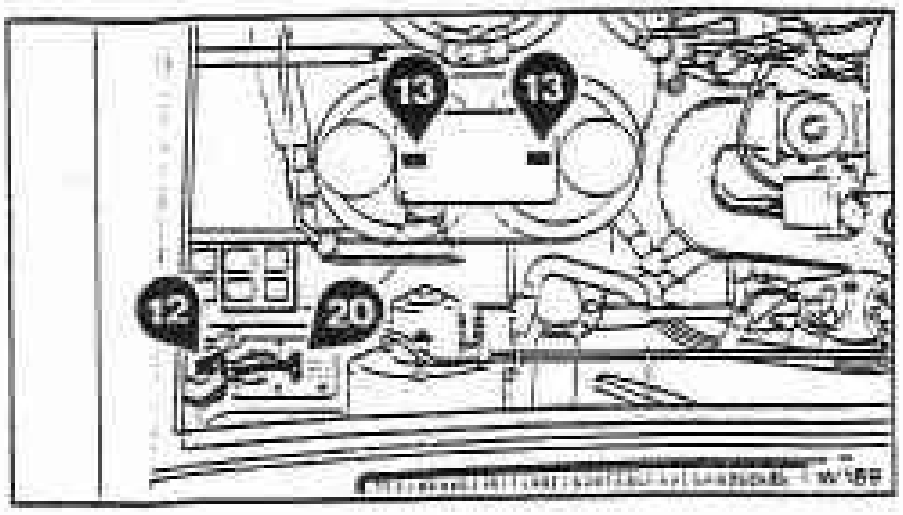









13
13
W 788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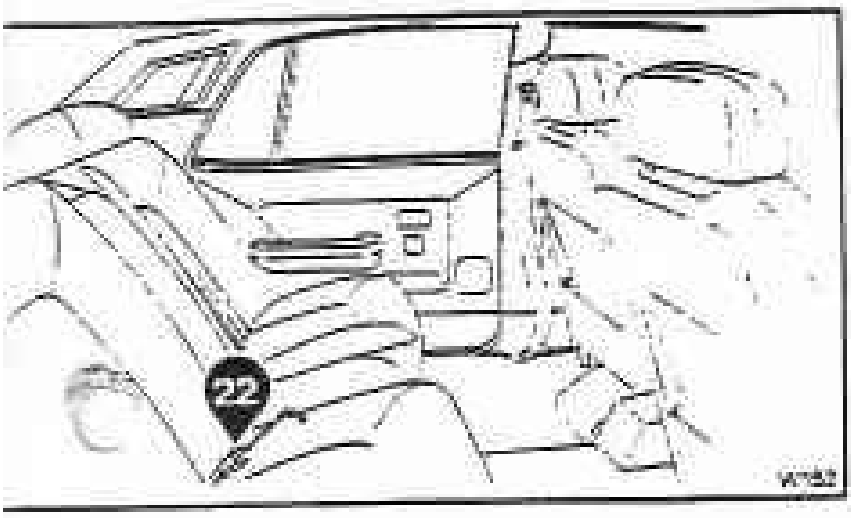
13
12
20
W 787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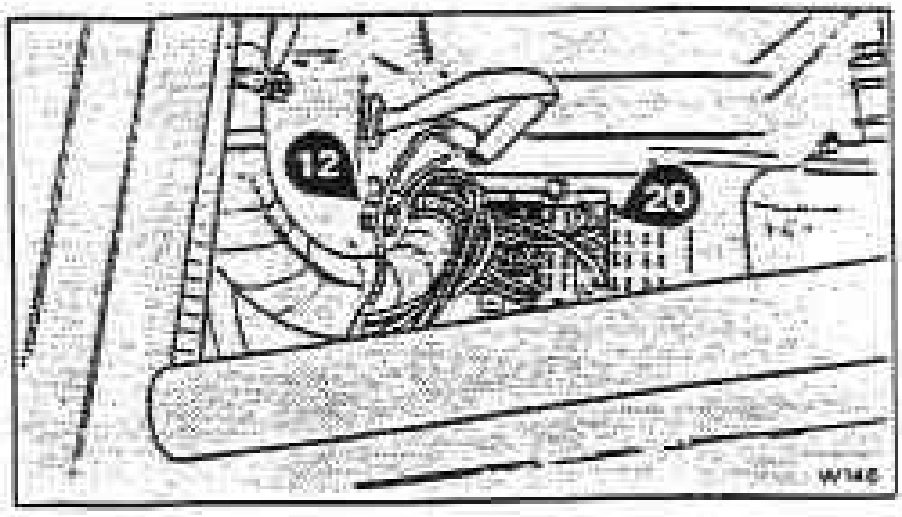
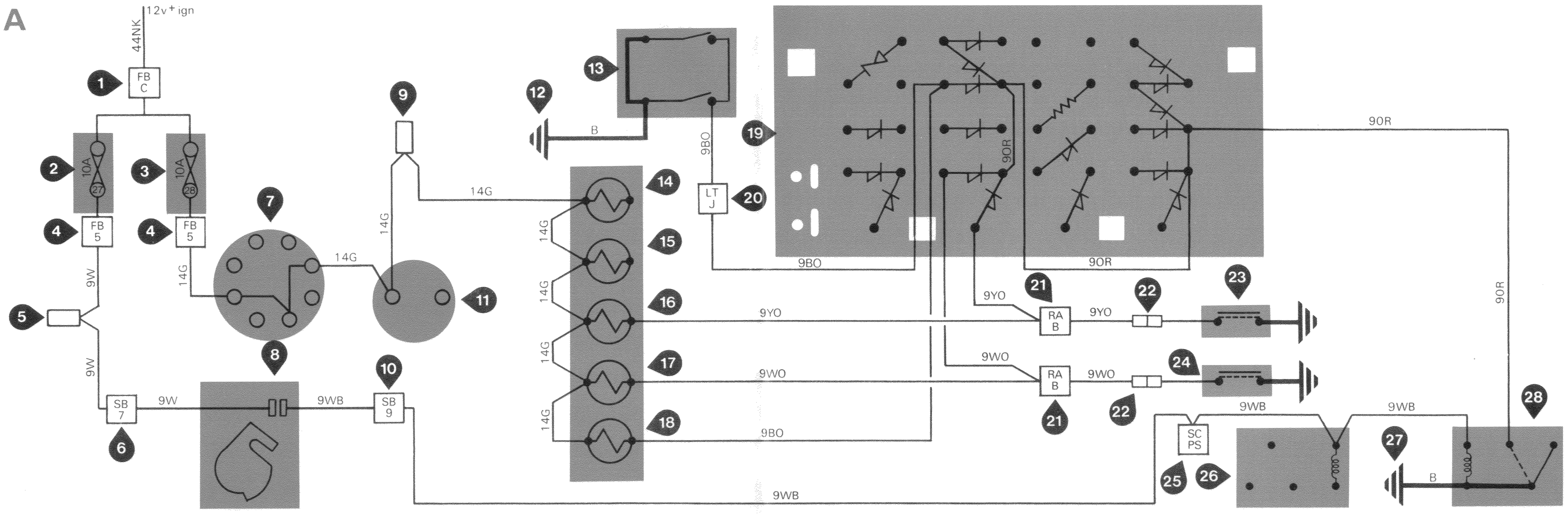
W 783

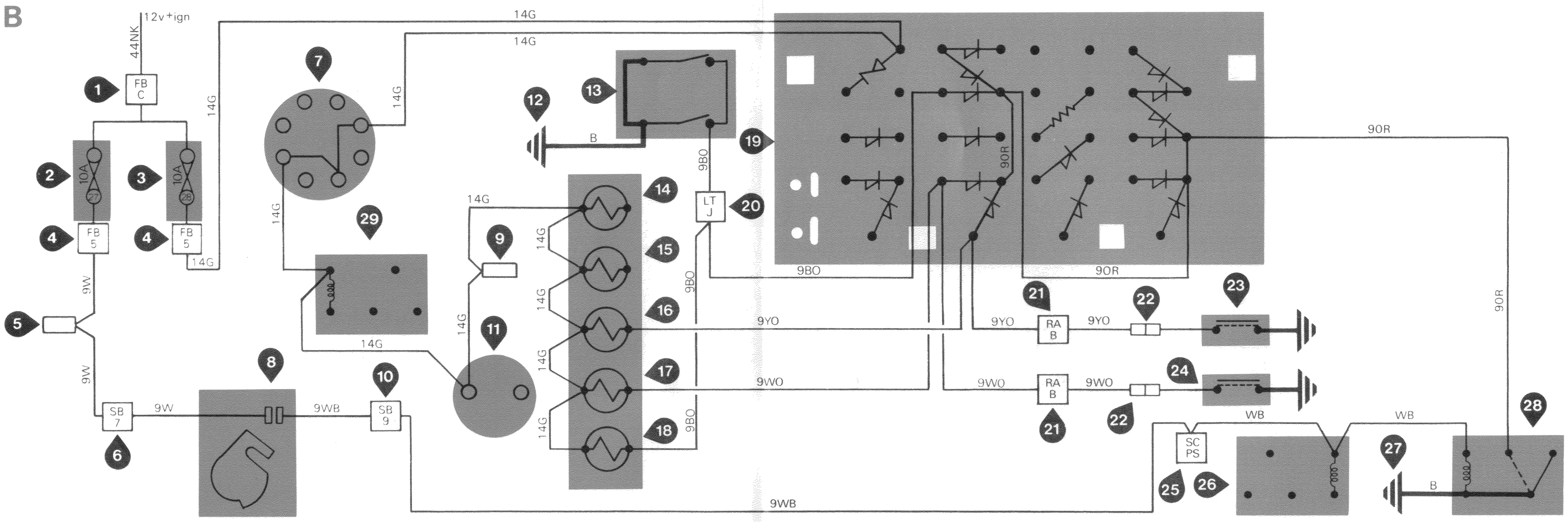

12
20
W 145

A



12v+ign
44NK
FB C
10A
27
26
FB 5
9W
14G
SB 7
9WB
SB 9
14G
B
9BO
LT J
9OR
9YO
9WO
RA B
SC PS

B

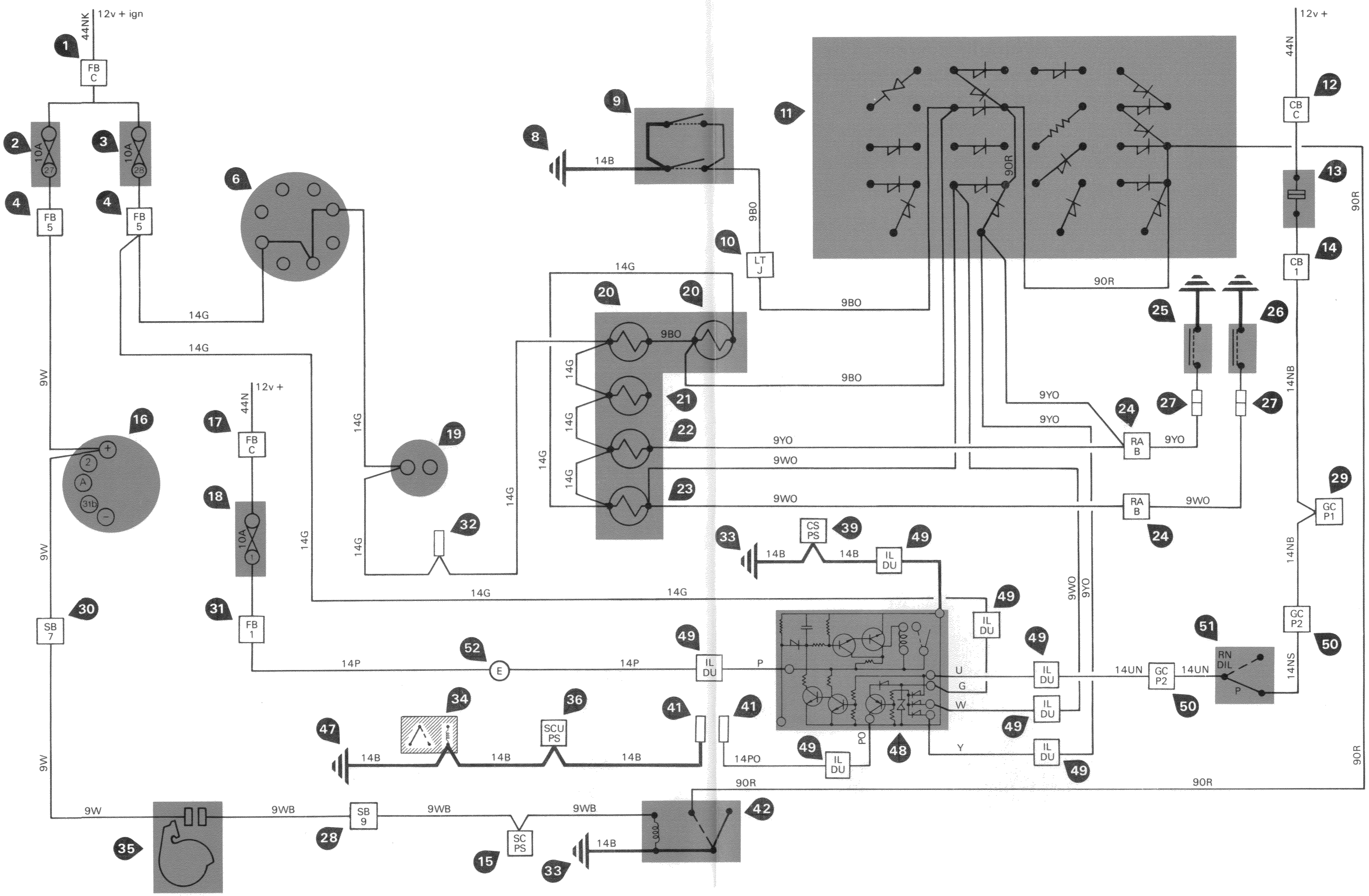


12v+ign
44NK
FB C
10A
27
26
FB 5
9W
14G
SB 7
9WB
SB 9
B
9BO
LT J
9OR
9YO
9WO
RA B
WB
SC PS

Hydraulic system mineral oil levels, brake pressure warning, and test circuits

Right-hand drive cars

Wiring diagram

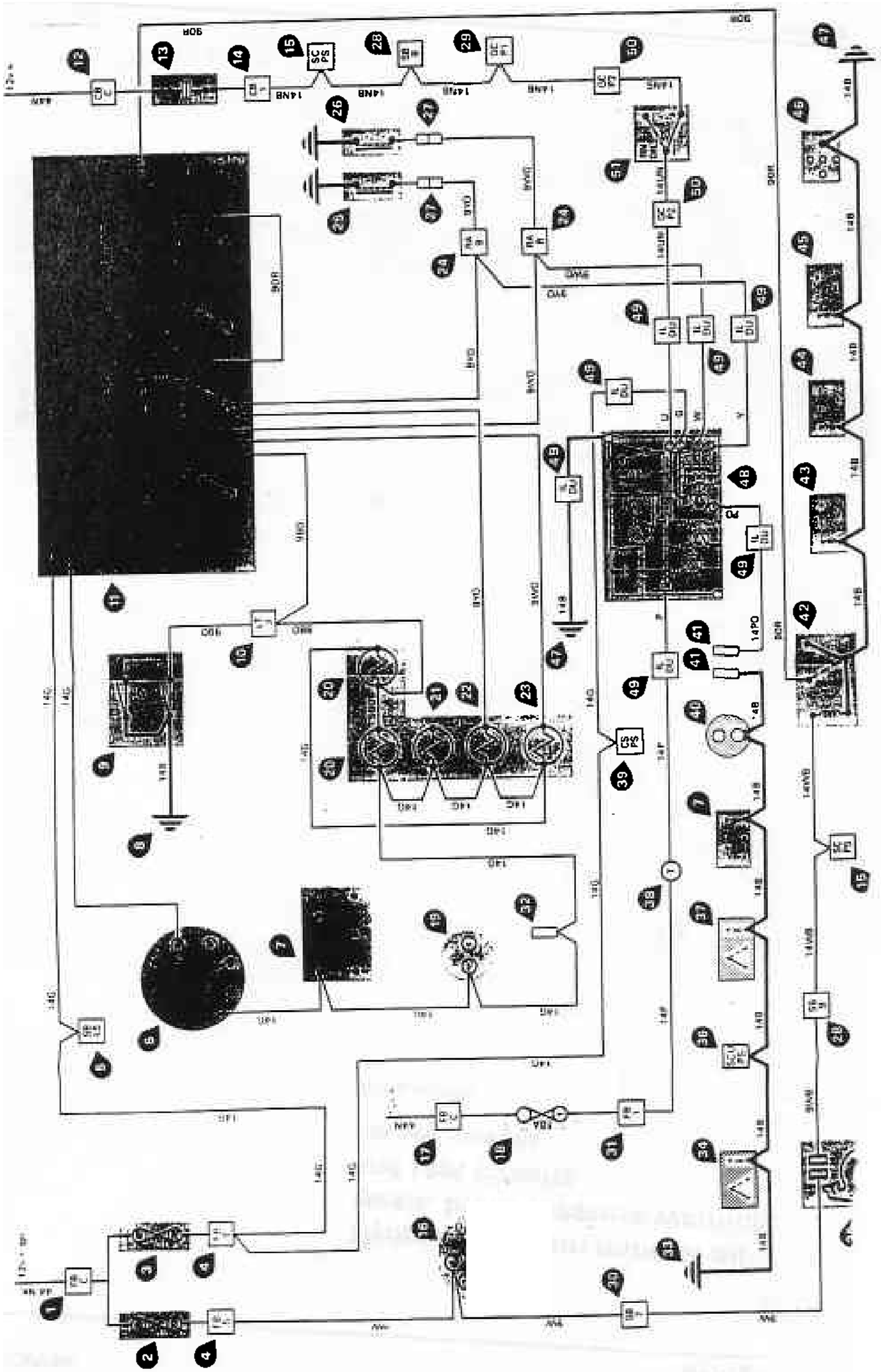


12v + ign
44NK
FB C
10A
FB 5
14G
9W
SB 7
9WB
SB 9
SC PS
14B
9BO
LT J
9YO
9WO
RA B
90R
12v +
44N
CB C
CB 1
14NB
GC P1
GC P2
14NS
RN DIL
14UN
IL DU
CS PS
SCU PS
14P
E
14PO
PO
U
G
W
Y
P

Hydraulic system mineral oil levels, brake pressure warning, and test circuits

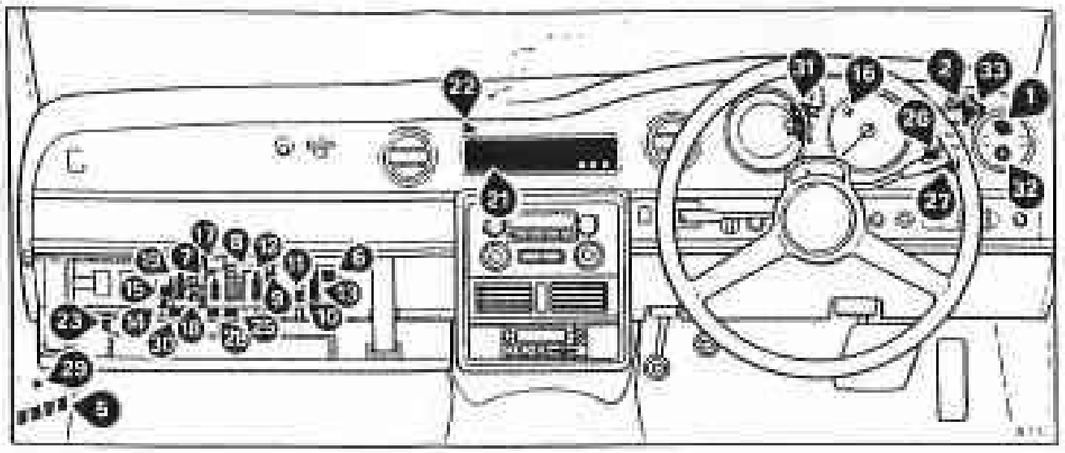
Left-hand drive cars

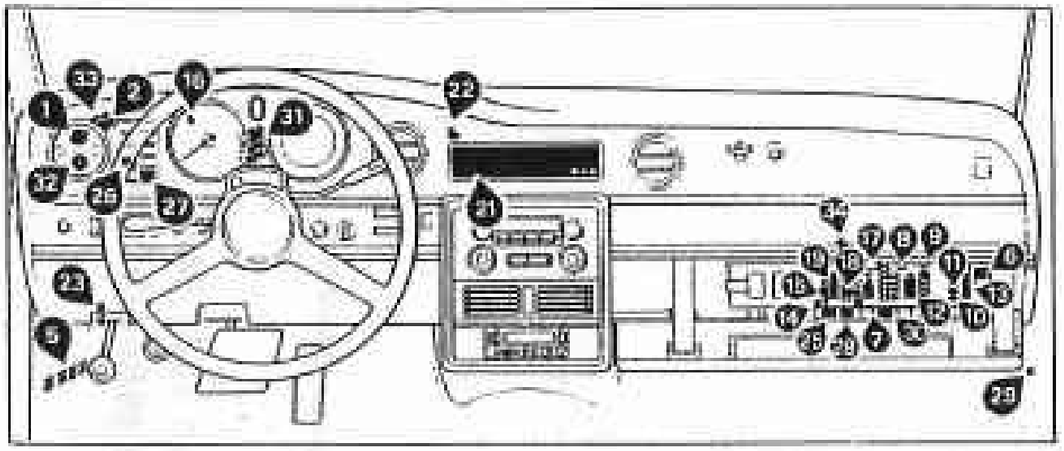
Wiring diagram

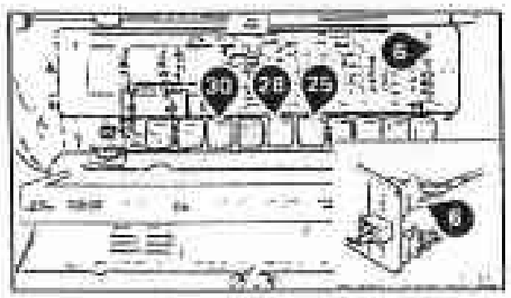


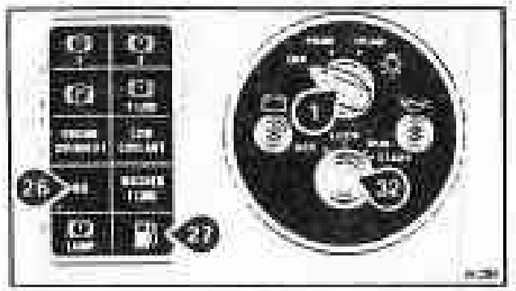
Fuel level and ice alert warning and test circuits

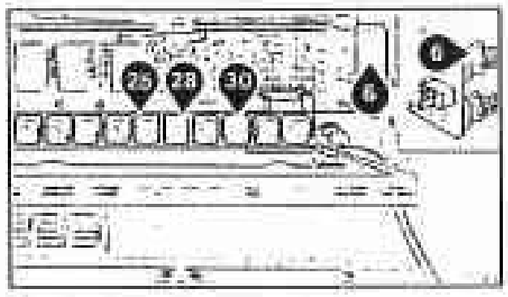
Wiring diagram and component location

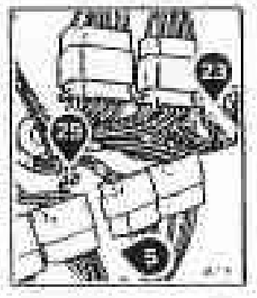


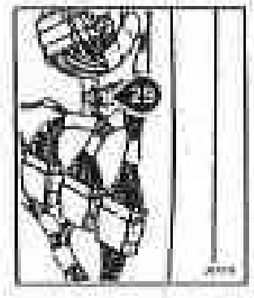


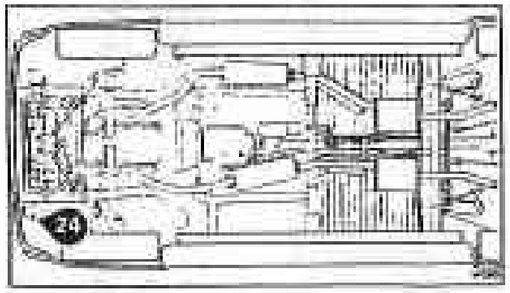


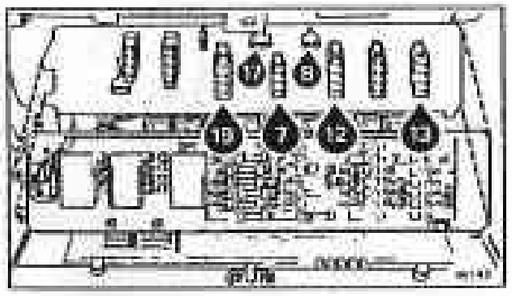


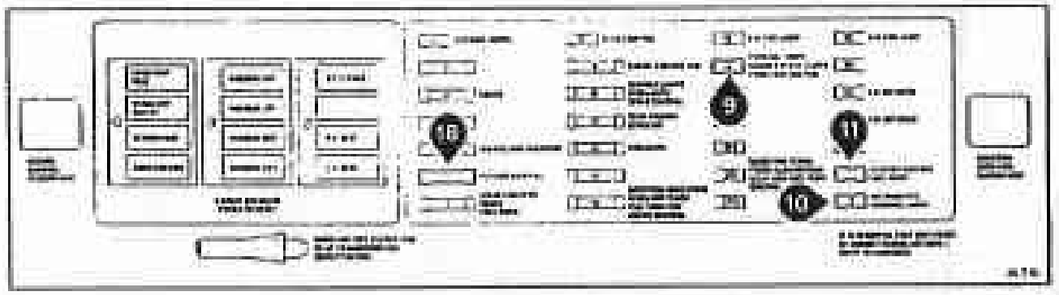


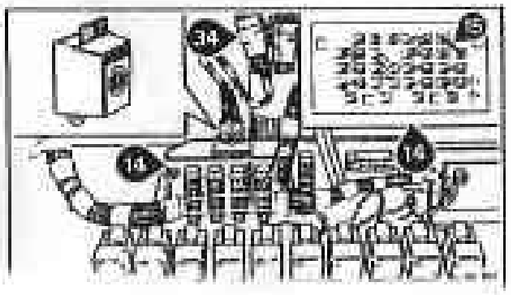




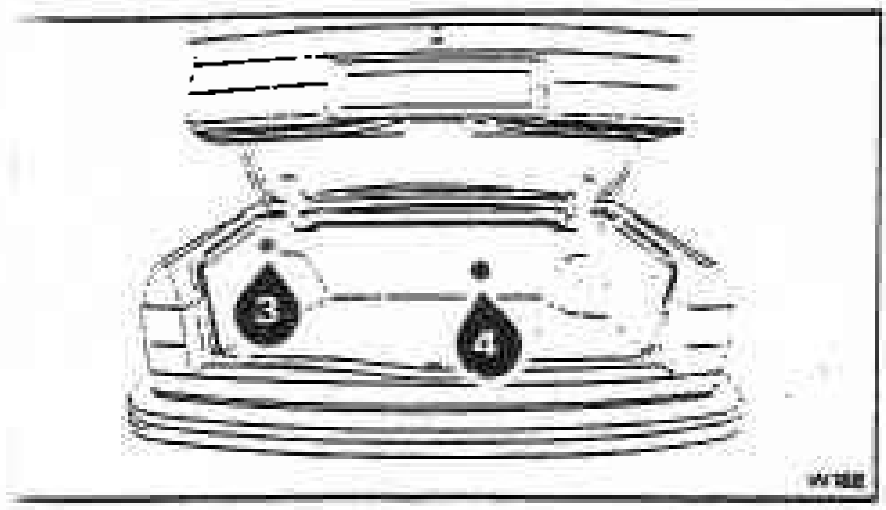


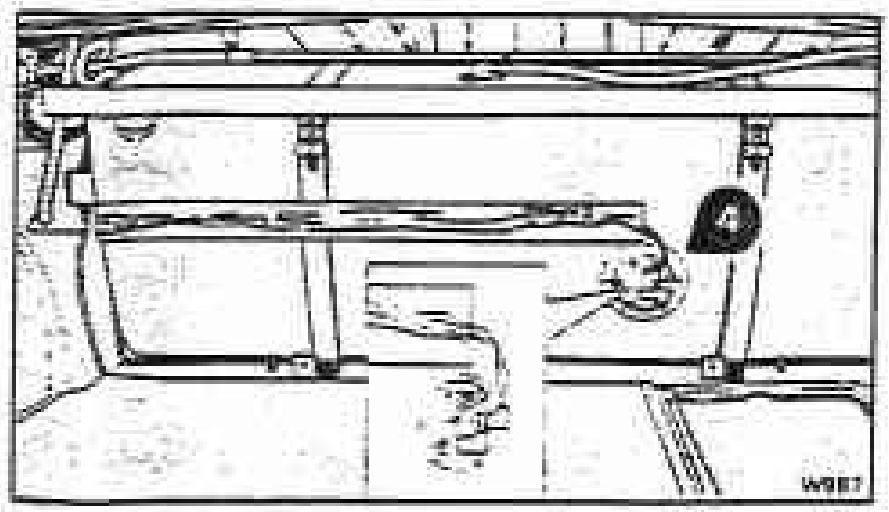







-00°c
10 00
00 00
OUTSIDE TEMP
HRS
MIN
HR
R
ST


3
4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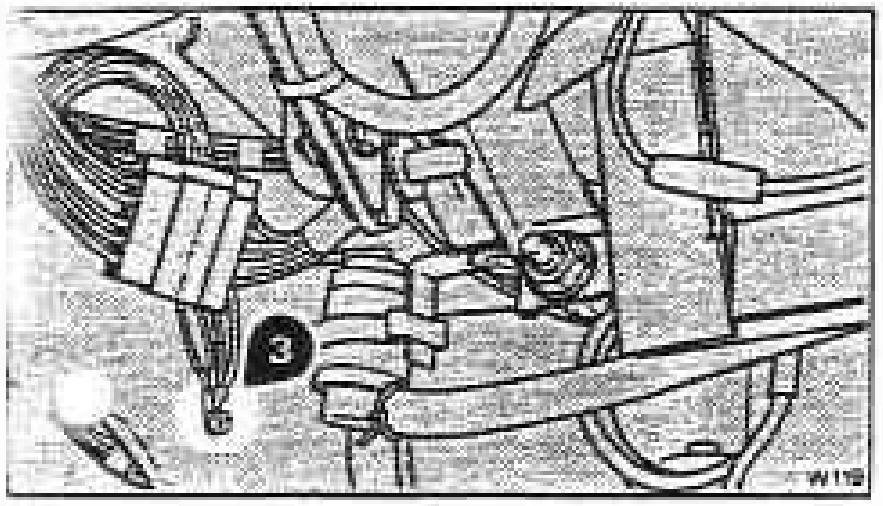
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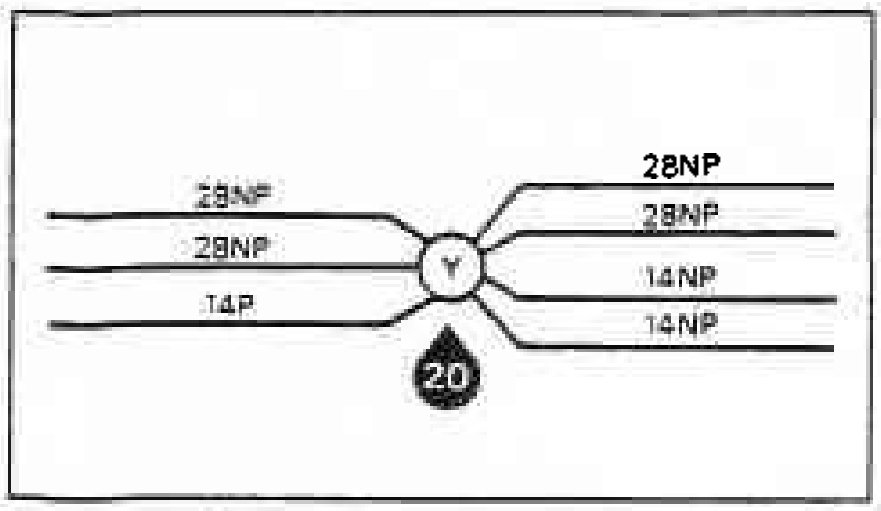
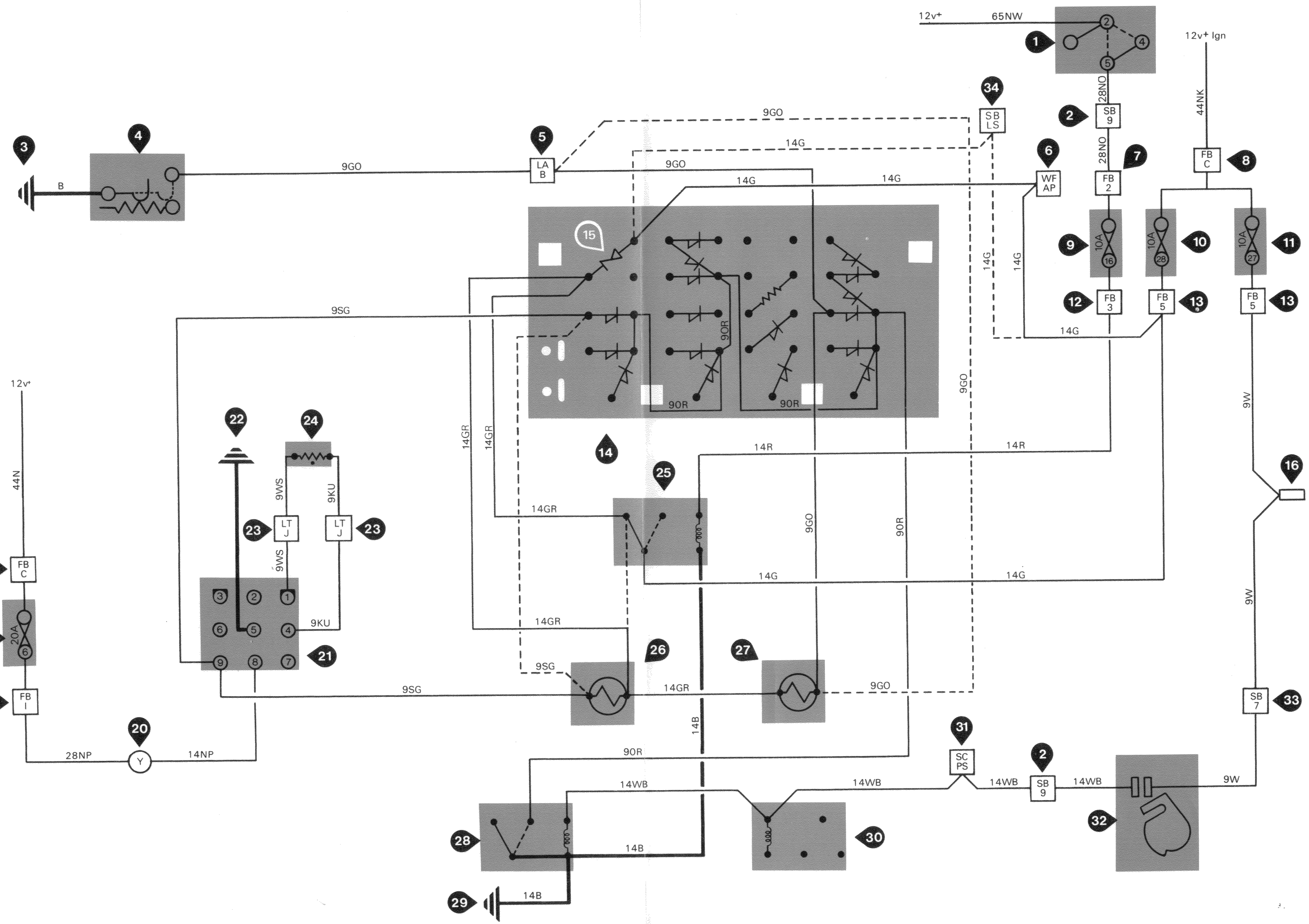

28NP
28NP
28NP
14NP
14P
14NP
20

Fuel level and ice alert warning and test circuits

Wiring diagram and component location


12v+
65NW
2
4
5
1
12v+ Ign
34
28NO
2
SB 9
9GO
SB LS
44NK
5
14G
6
7
FB C
8
3
4
B
9GO
LA B
9GO
14G
14G
WF AP
FB 2
15
14G
14G
10A 16
10A 28
10A 27
9
10
11
FB 3
FB 5
FB 5
12
13
13
9SG
9OR
14G
90R
90R
9GO
12v+
22
24
14GR
14GR
14
14R
14R
9W
44N
9WS
9KU
25
16
23
LT J
LT J
23
14GR
9GO
90R
FB C
17
9WS
14G
14G
9W
20A 6
18
9KU
14GR
21
26
27
9SG
9SG
14GR
9GO
FB I
19
SB 7
33
20
14B
31
28NP
Y
14NP
90R
SC PS
2
14WB
14WB
14WB
SB 9
14WB
9W
28
14B
30
32
29
14B

Low fuel and ice alert circuits

Circuit description

A 12 volts positive ignition feed supplies both the low fuel and ice alert warning panels. The feed is supplied via a green cable from fuse 28 at the fuseboard through the normally closed contacts of the warning lamps dimming relay to a green/red cable. This cable is routed from the relay, via a connection at the diode board, to the low fuel and ice alert warning panels.

If the fuel level falls to approximately 16 litres (3.5 Imperial gallons, 4.2 US gallons) the fuel level transmitter provides an earth path along the green/orange cable, via a connection at the diode board, to illuminate the low fuel warning panel.

The ice alert warning panel is illuminated when the outside air temperature drops to approximately +1°C or below. This is achieved by the ambient air temperature sensor providing a voltage (which varies with air temperature) to the three-in-one digital instrument. This voltage is compared with a reference voltage within the instrument; when the two voltages are equal a transistor, within the instrument, switches to provide an earth path on the slate/green cable to illuminate the warning panel.

Should one or both warning panels be illuminated and the main lighting switch be in any other position than OFF, a 12 volts positive feed on the red cable from fuse 16 at the fuseboard energises the warning lamps dimming relay. This disconnects the feed from the green to green/red cables at the relay. When this occurs a secondary feed from fuse 28, on the green cable to the diode board, is passed through a Zenner diode to the green/red cable. This illuminates the warning panels at reduced intensity.

During engine cranking a 12 volts positive feed carried by the white cable from fuse 27 at the fuseboard to the starter switch is transferred to a white/black cable. This then energises the warning lamps test relay to provide an earth path on the orange/red cable from the diode board to illuminate both the low fuel and ice alert warning panels.

Gauges

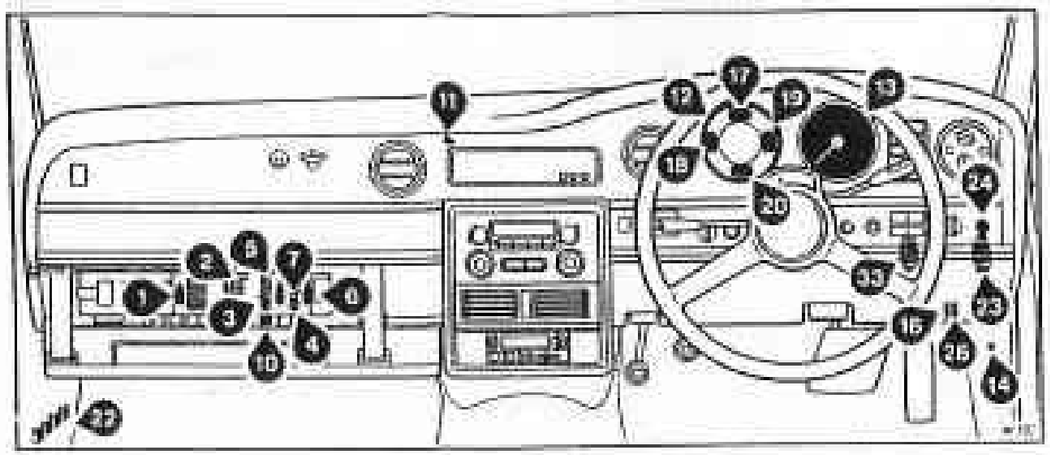
Coolant temperature, fuel/oil level, oil pressure, battery condition, and speedometer

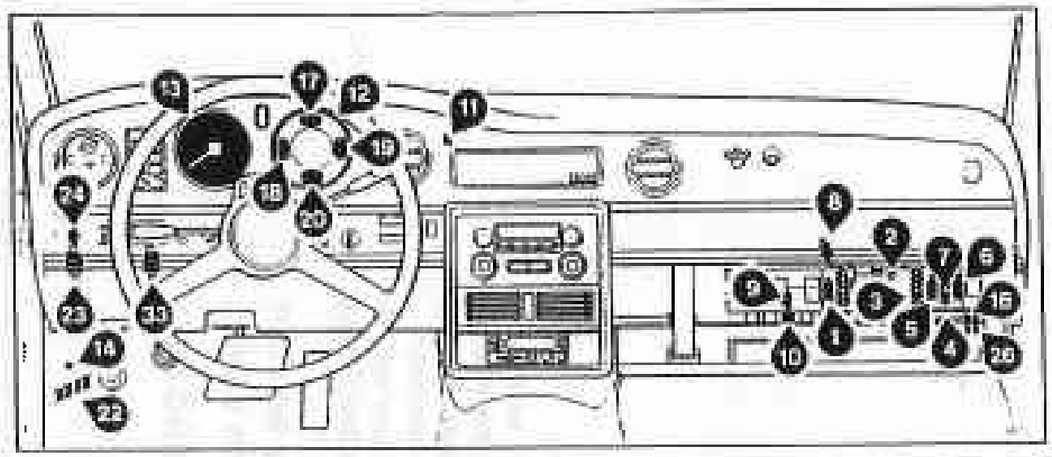
Wiring diagram and component location

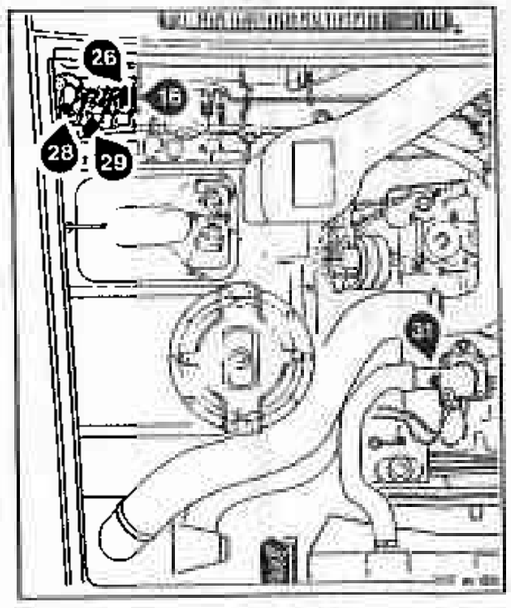
A Cars other than those conforming to a *Japanese or North American specification*

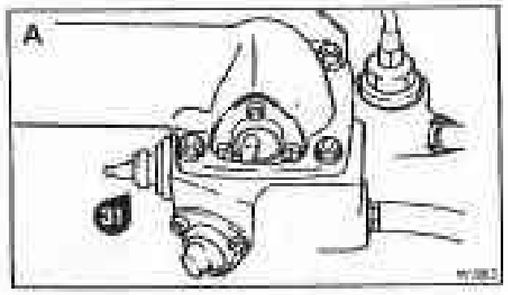
B Cars conforming to a *Japanese or North American specification*

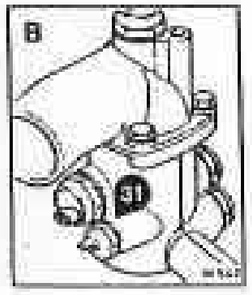
C Bentley Mulsanne Turbo cars



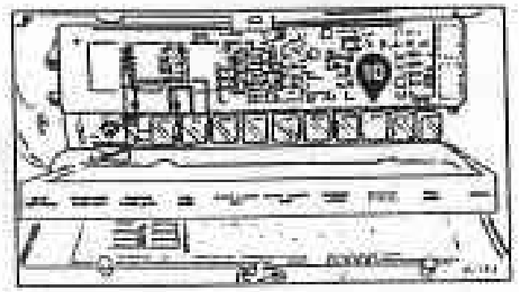


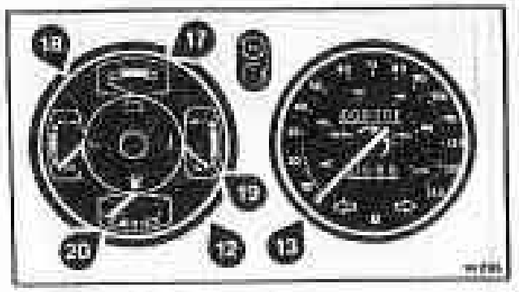


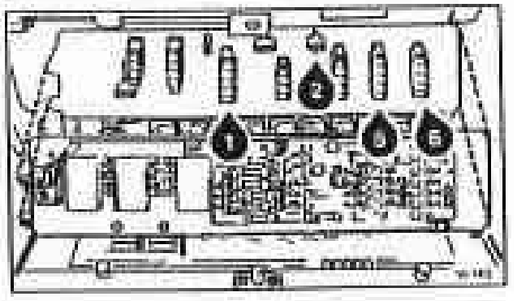

A

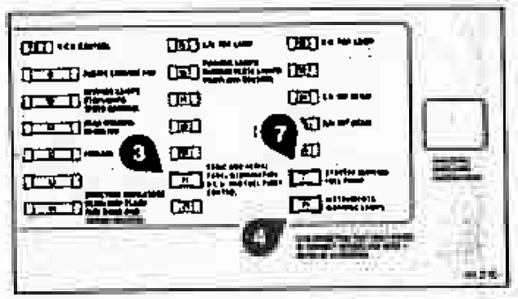

B

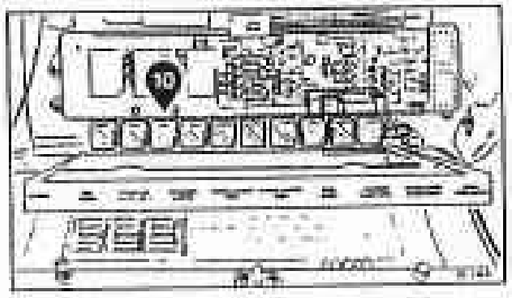

C
TURBO

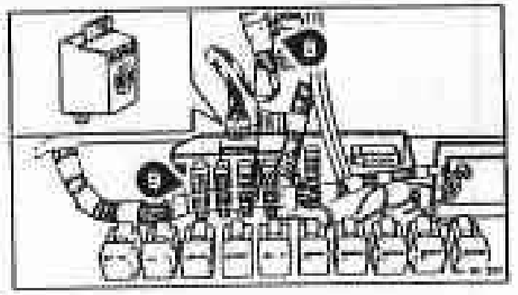


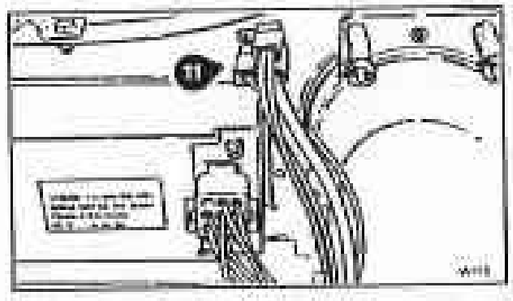


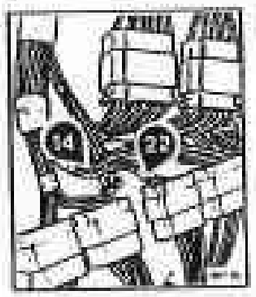


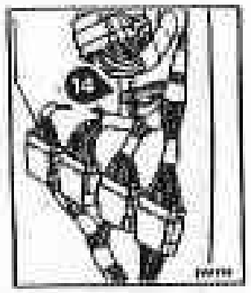


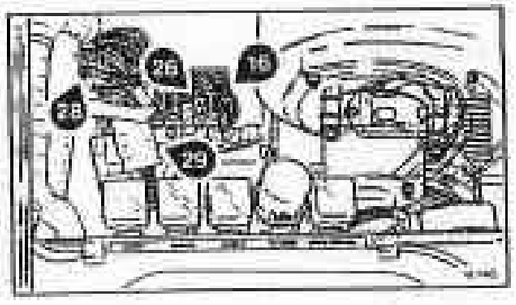


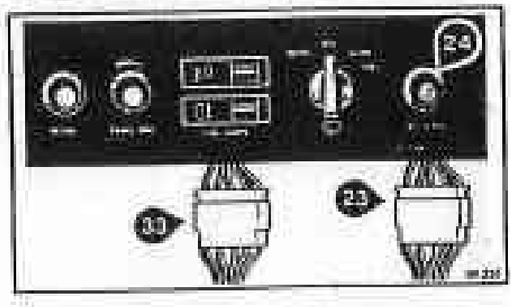


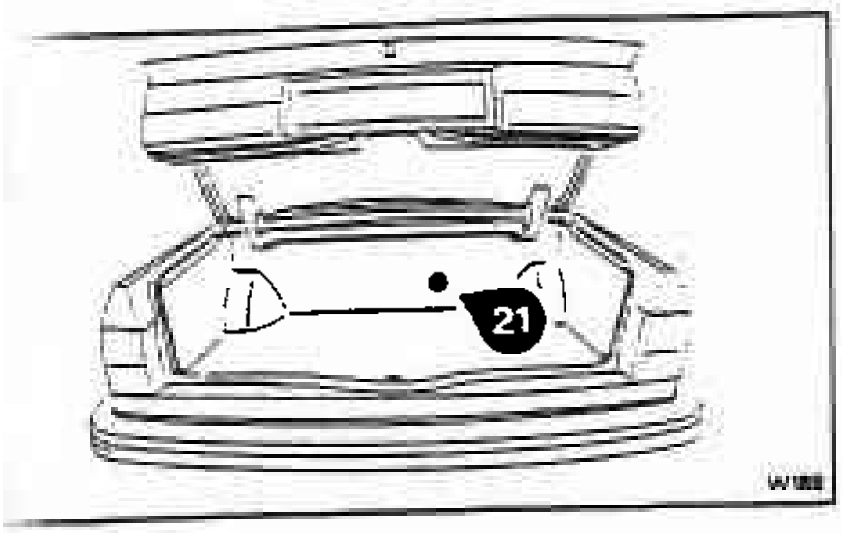








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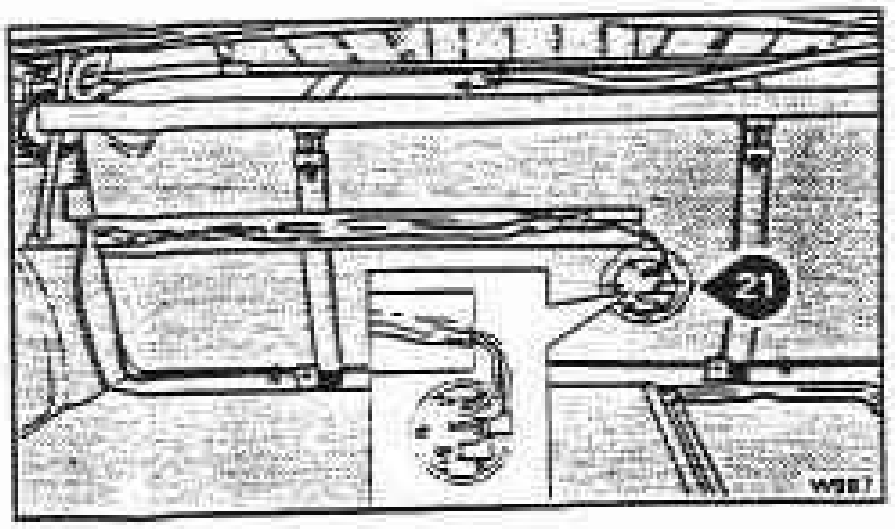
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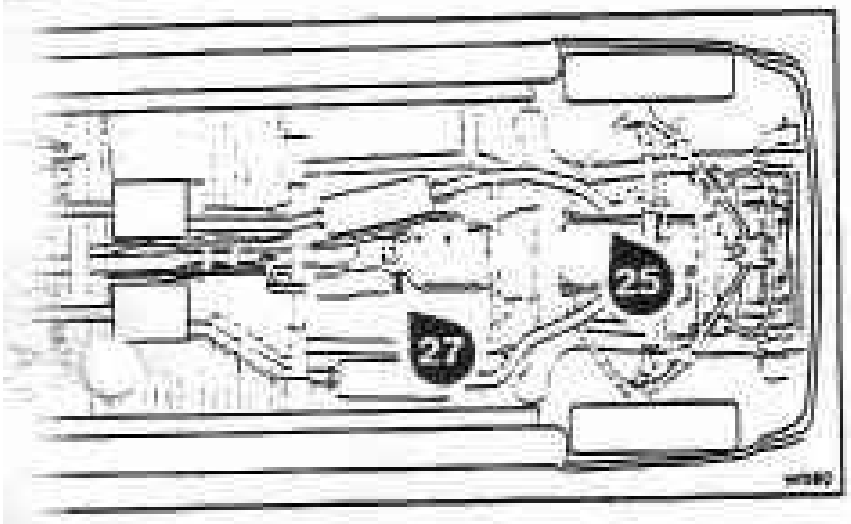
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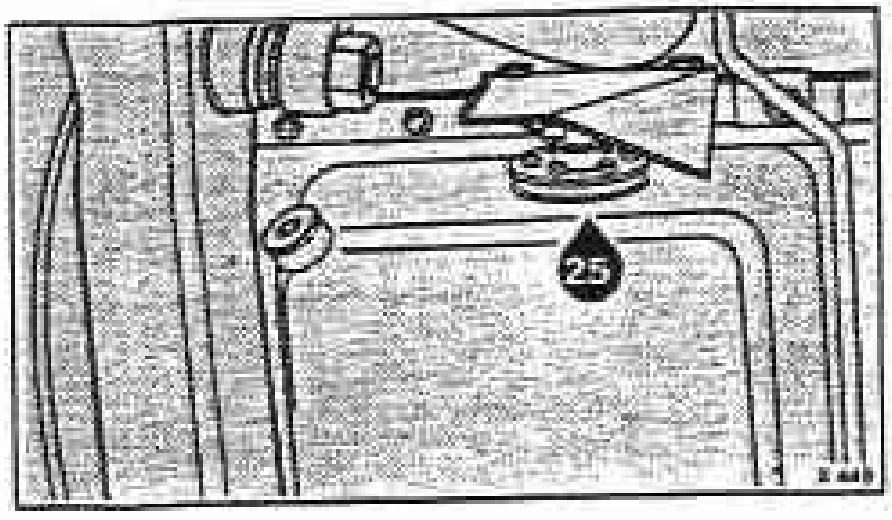
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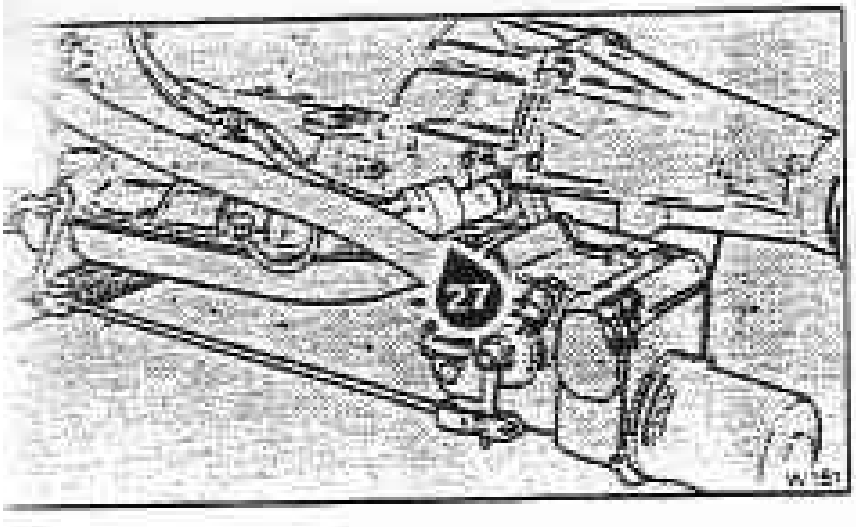

27

Gauges

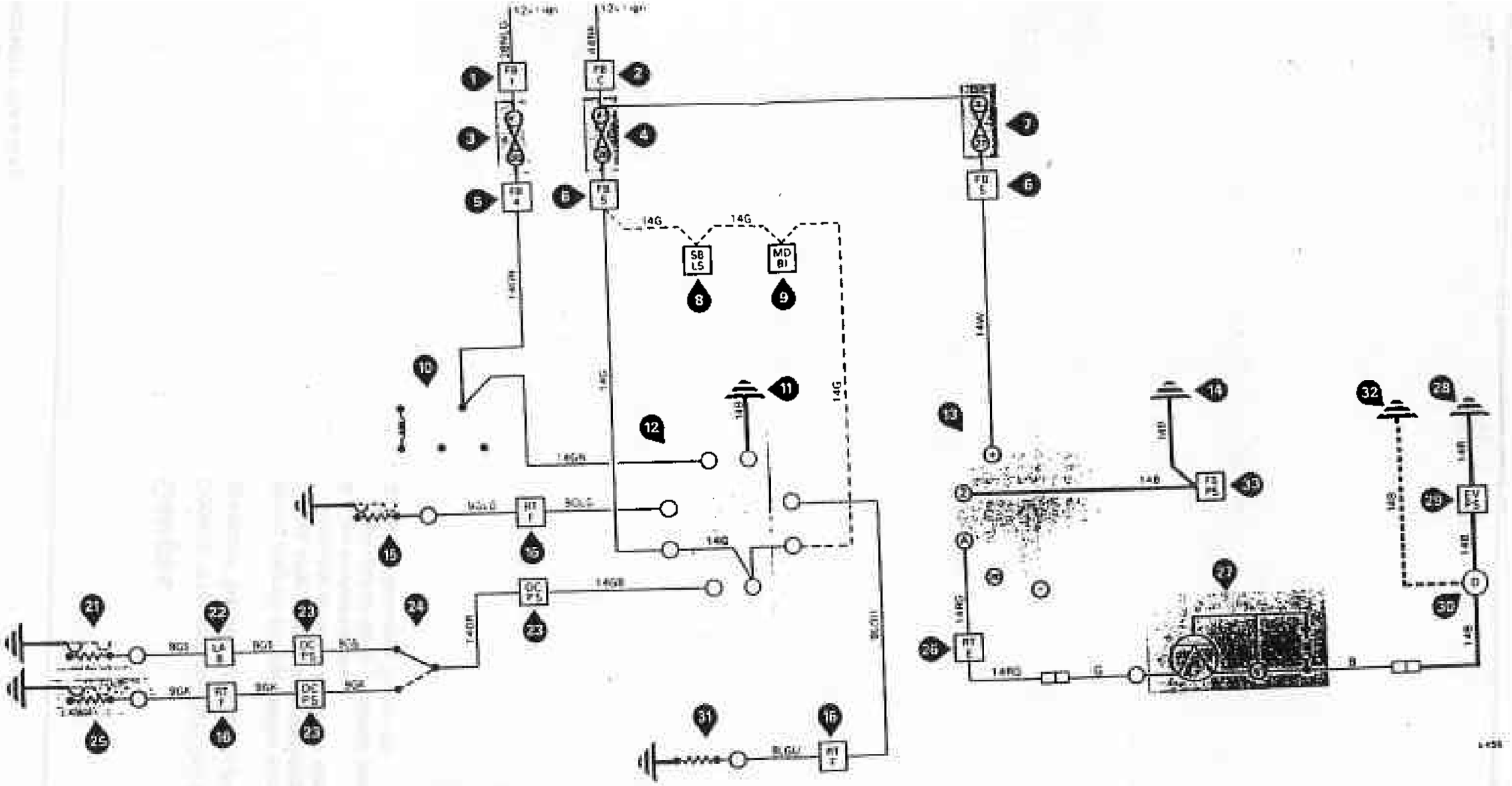
Coolant temperature, fuel/oil level, oil pressure, battery condition, and speedometer

Wiring diagram and component location

A Cars other than those conforming to a *Japanese or North American specification*

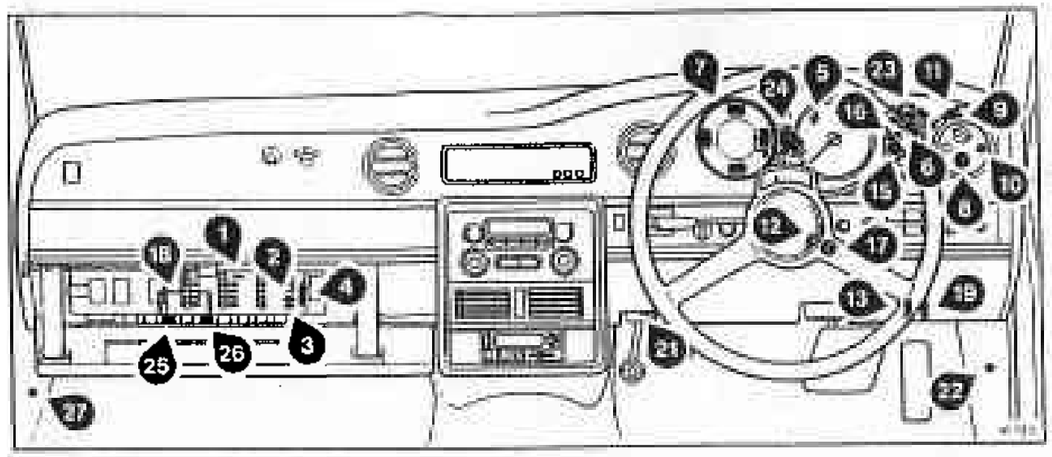
B Cars conforming to a *Japanese or North American specification*

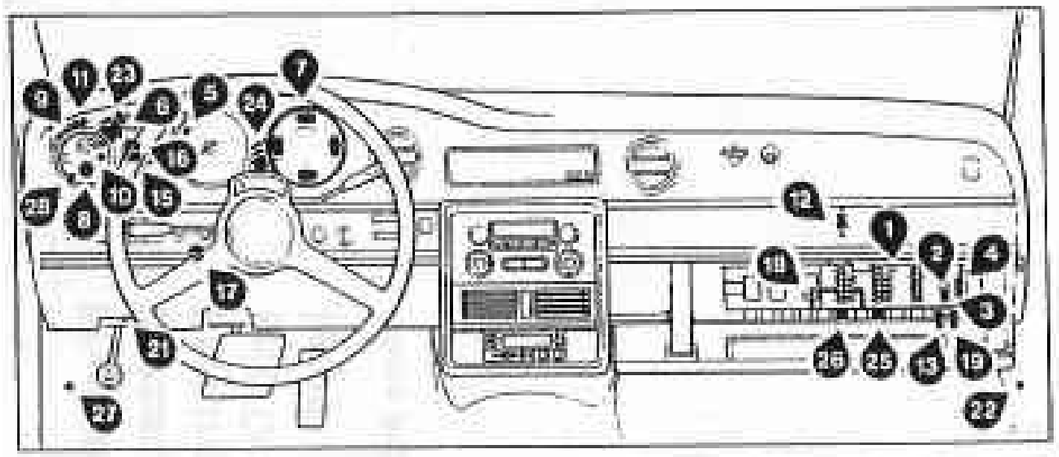
C Bentley Mulsanne Turbo cars

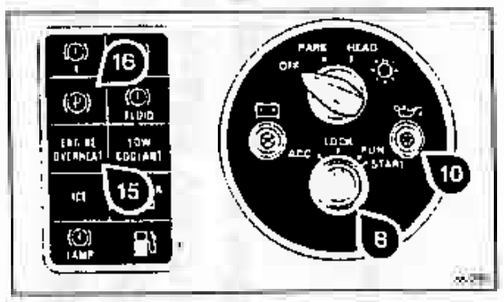

SB LS
MD BI
C TURBO
C TURBO

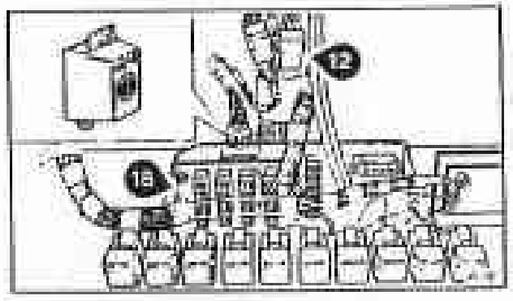
Engine overheat switch, buzzer, and warning lamp. Parking brake warning lamp and Oil pressure warning lamp

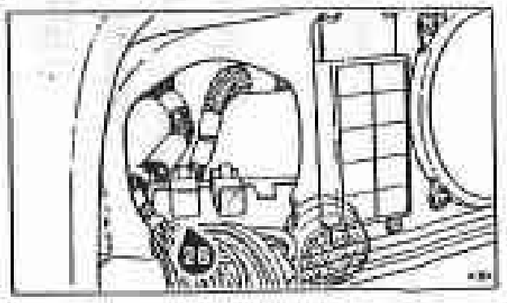
Wiring diagram and component location

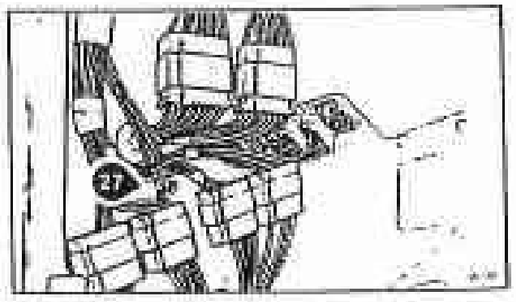


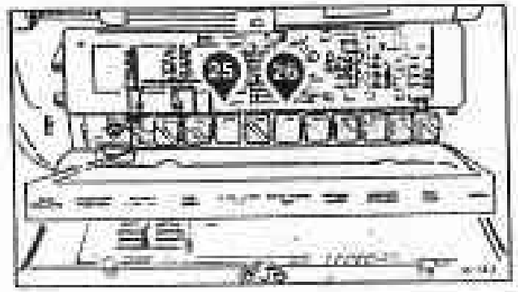


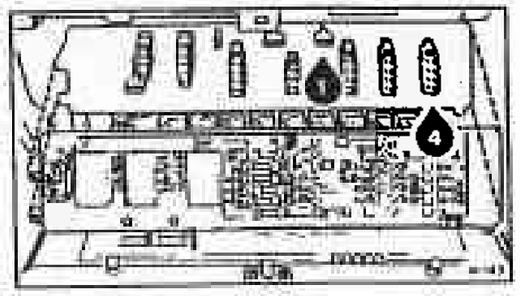

16
FLUID
LOW COOLANT
15
10
8
LAMP

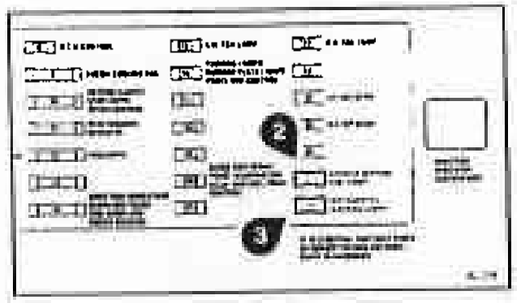


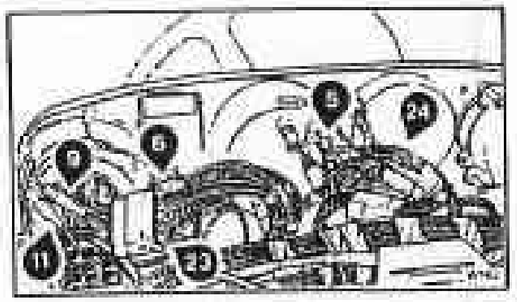


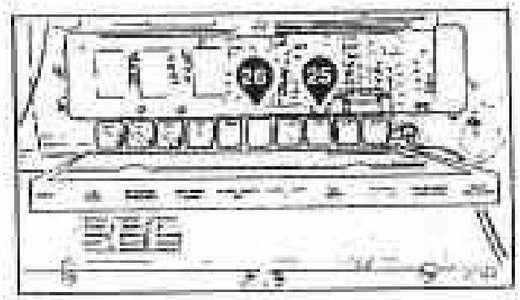


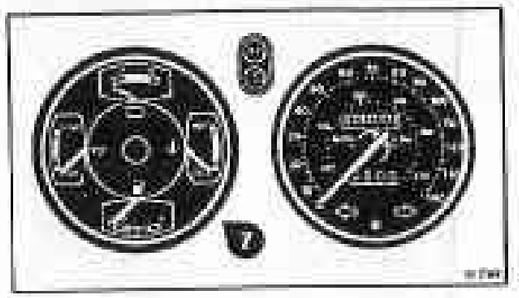


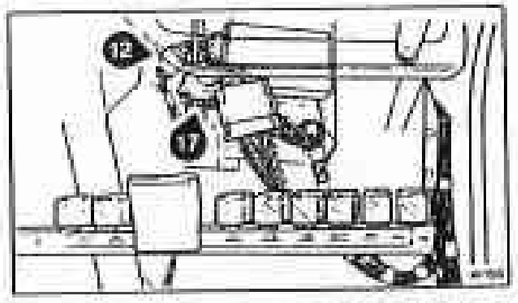


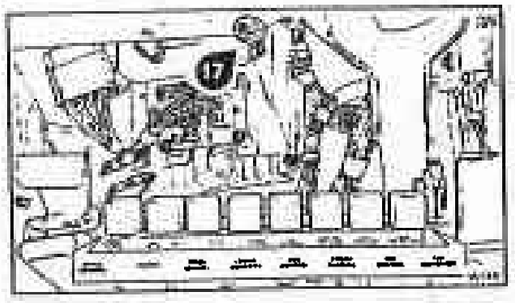


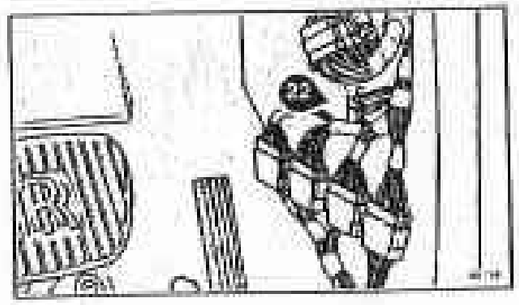


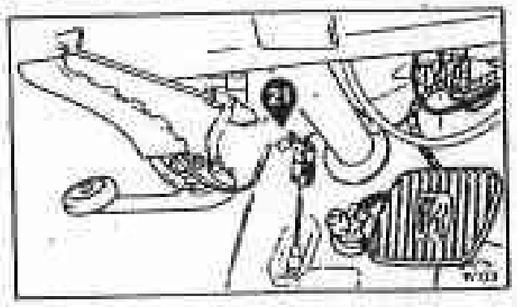


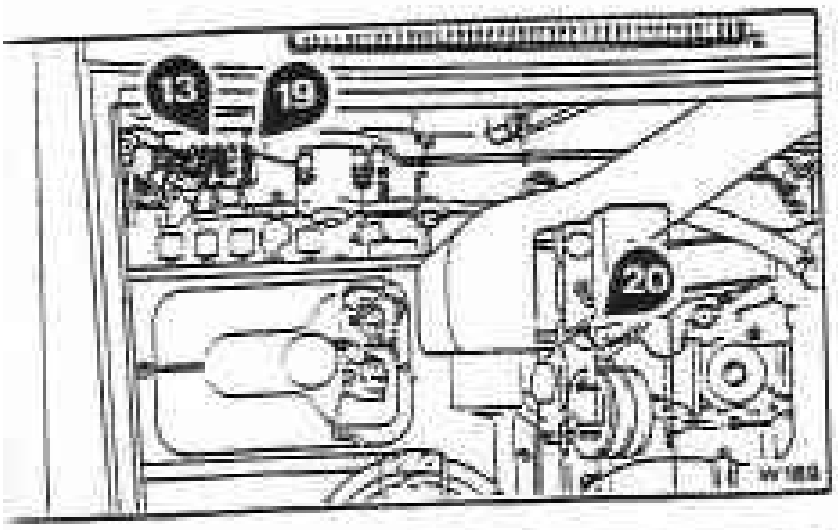








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19
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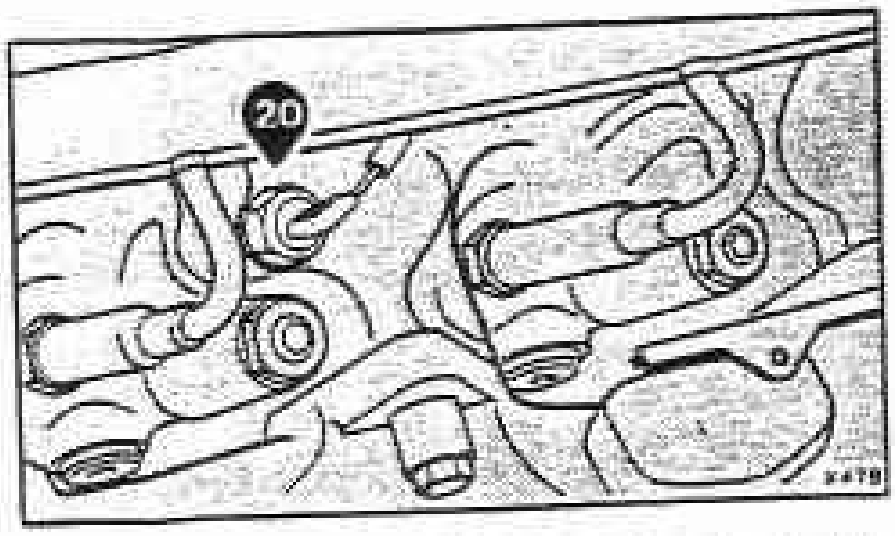
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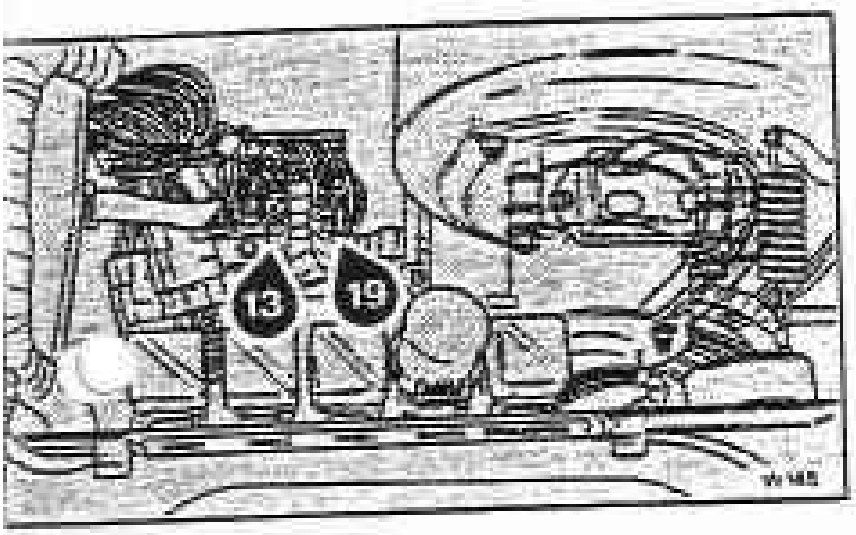
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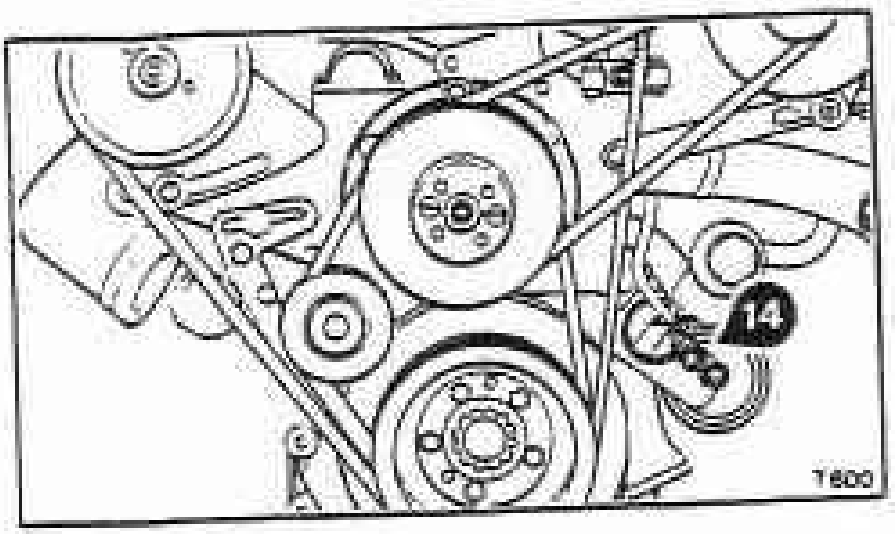
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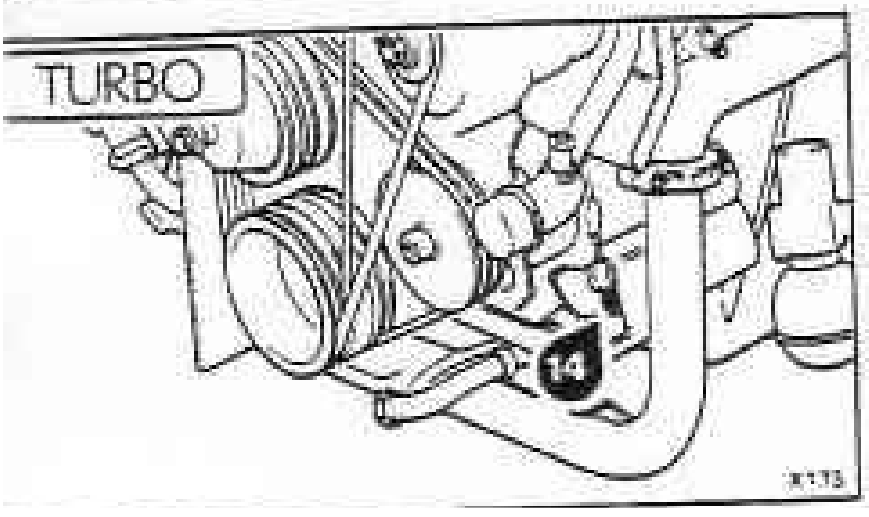
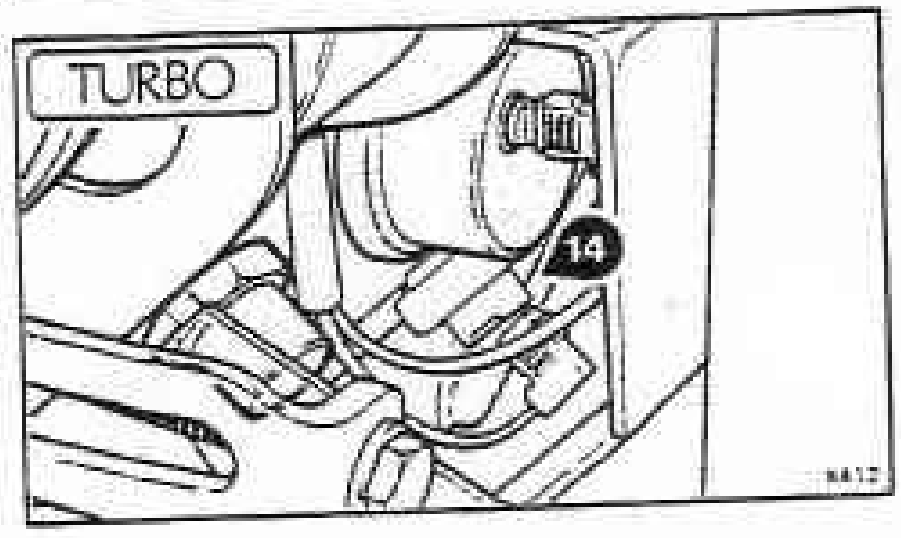
T600


TURBO
14

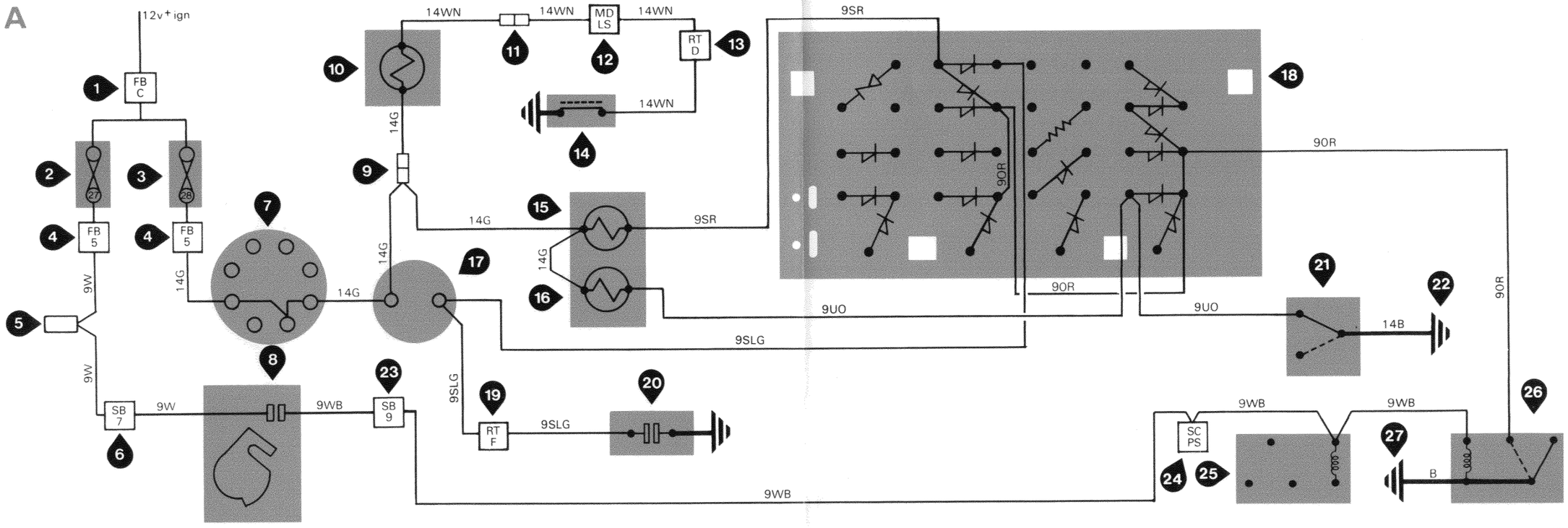

TURBO
14

Engine overheat switch, buzzer, and warning lamp. Parking brake warning lamp and Oil pressure warning lamp

A Right-hand drive cars
B Left-hand drive cars

Wiring diagram and component location

A


12v+ign
FB C
FB 5
FB 5
SB 7
SB 9
MD LS
RT D
RT F
SC PS
14WN
14WN
14WN
14G
14G
14G
14G
9W
9W
9W
9WB
9WB
9SR
9SR
9SLG
9SLG
9UO
9UO
90R
90R
14B
B
1
2
3
4
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5
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7
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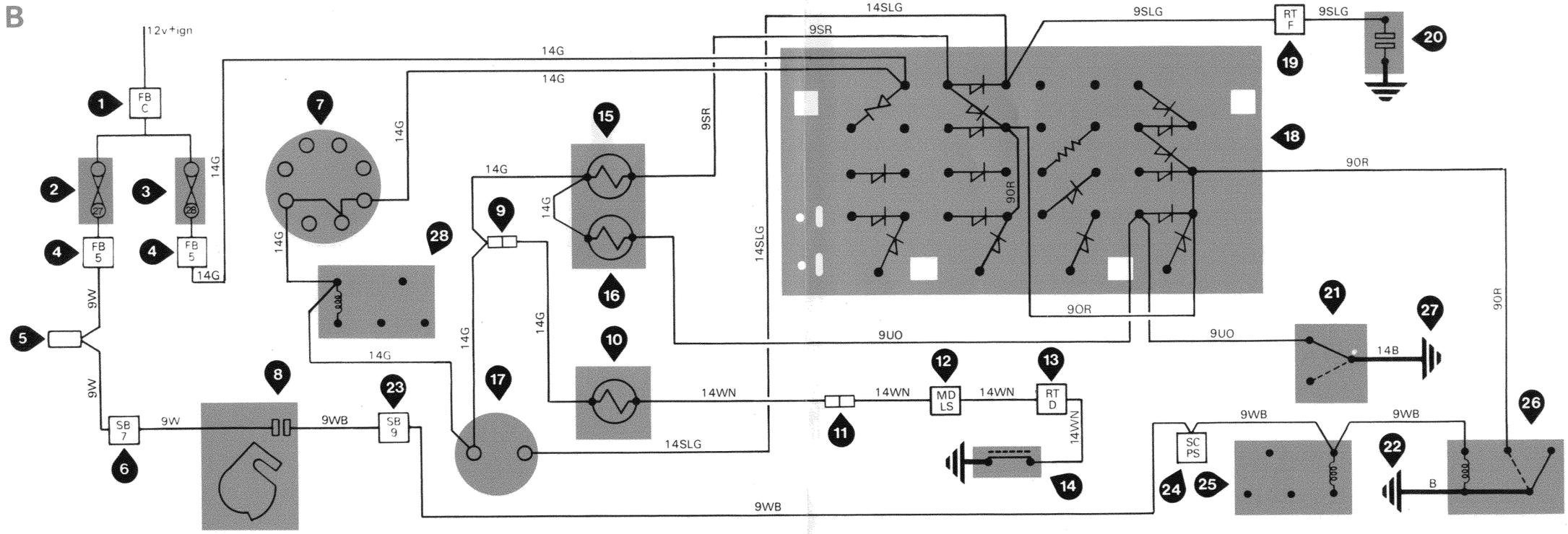
B


12v+ign
FB C
FB 5
FB 5
SB 7
SB 9
MD LS
RT D
RT F
SC PS
14G
14G
14G
14G
14G
14G
14G
14SLG
14SLG
14WN
14WN
14WN
9W
9W
9W
9WB
9WB
9SR
9SLG
9SLG
9UO
9UO
9OR
9OR
9OR
14B
B
1
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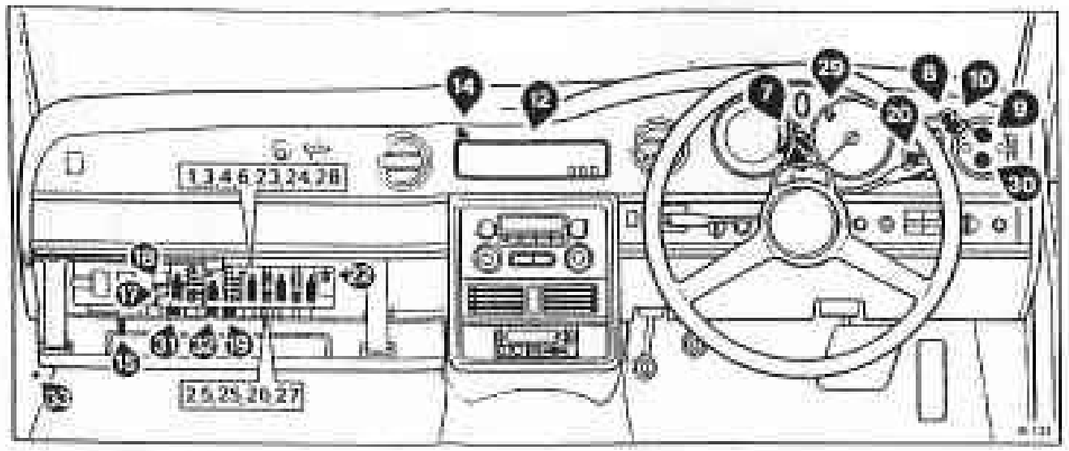
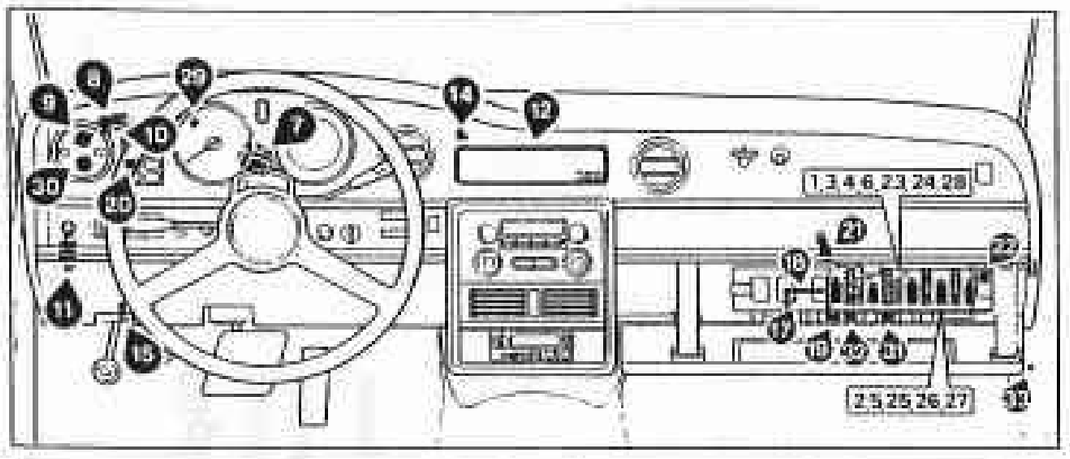
Digital instrument

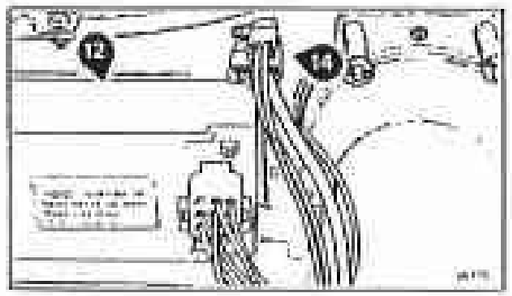
Outside air temperature gauge, clock, and elapsed time indicator

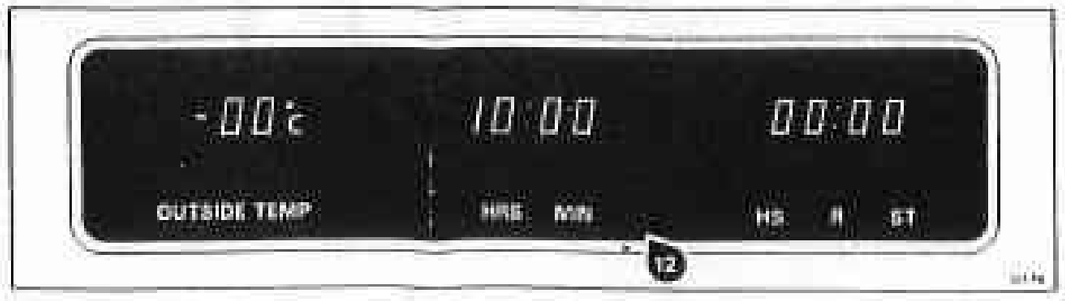
Wiring diagram and component location

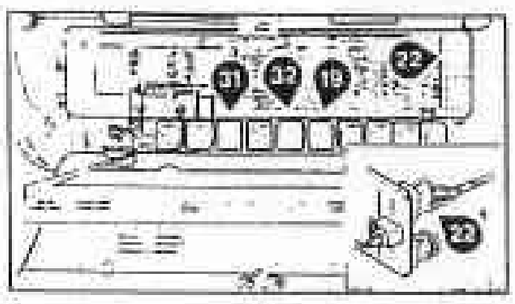
October 1982

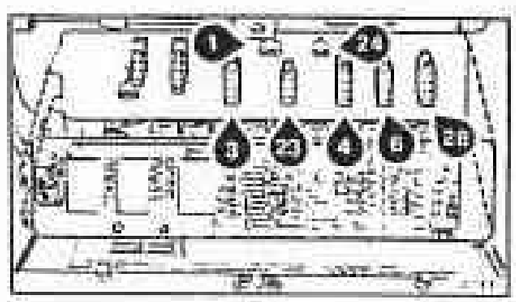

1,3,4,6,23,24,28
2,5,25,26,27

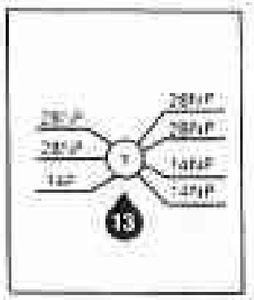

1,3,4,6,23,24,28
2,5,25,26,27

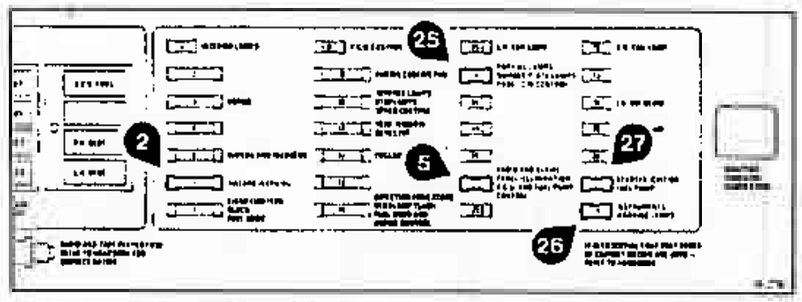


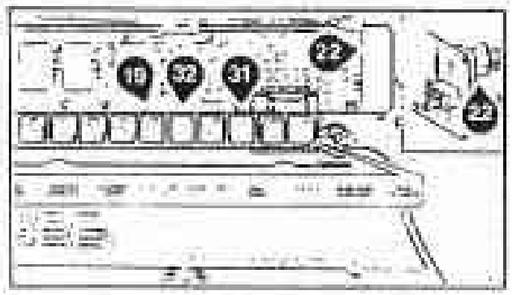

-00°C
10:00
00:00
OUTSIDE TEMP
HRS MIN
HS A GT

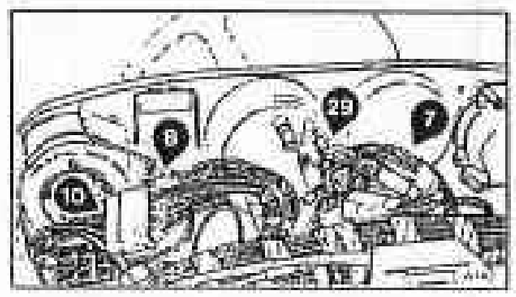


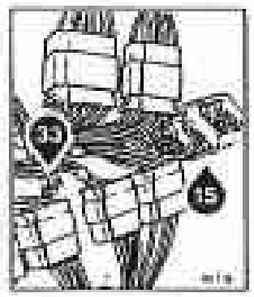


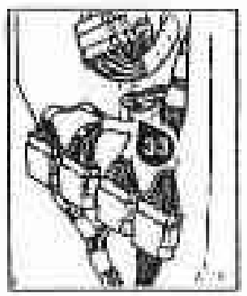


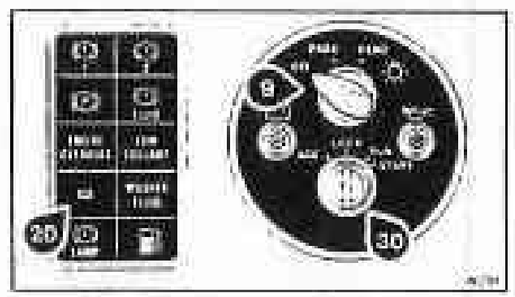


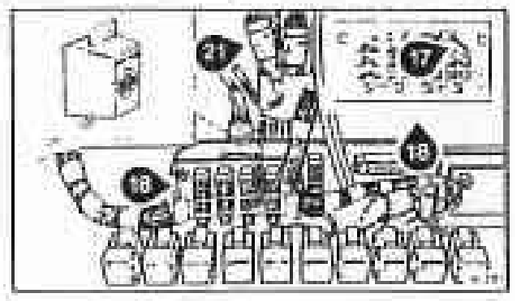


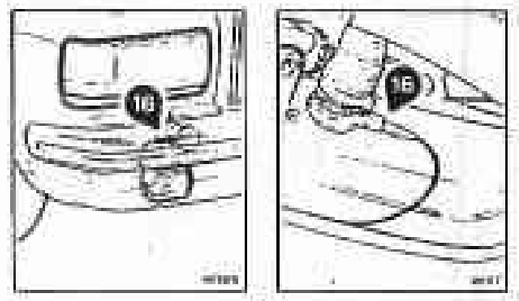








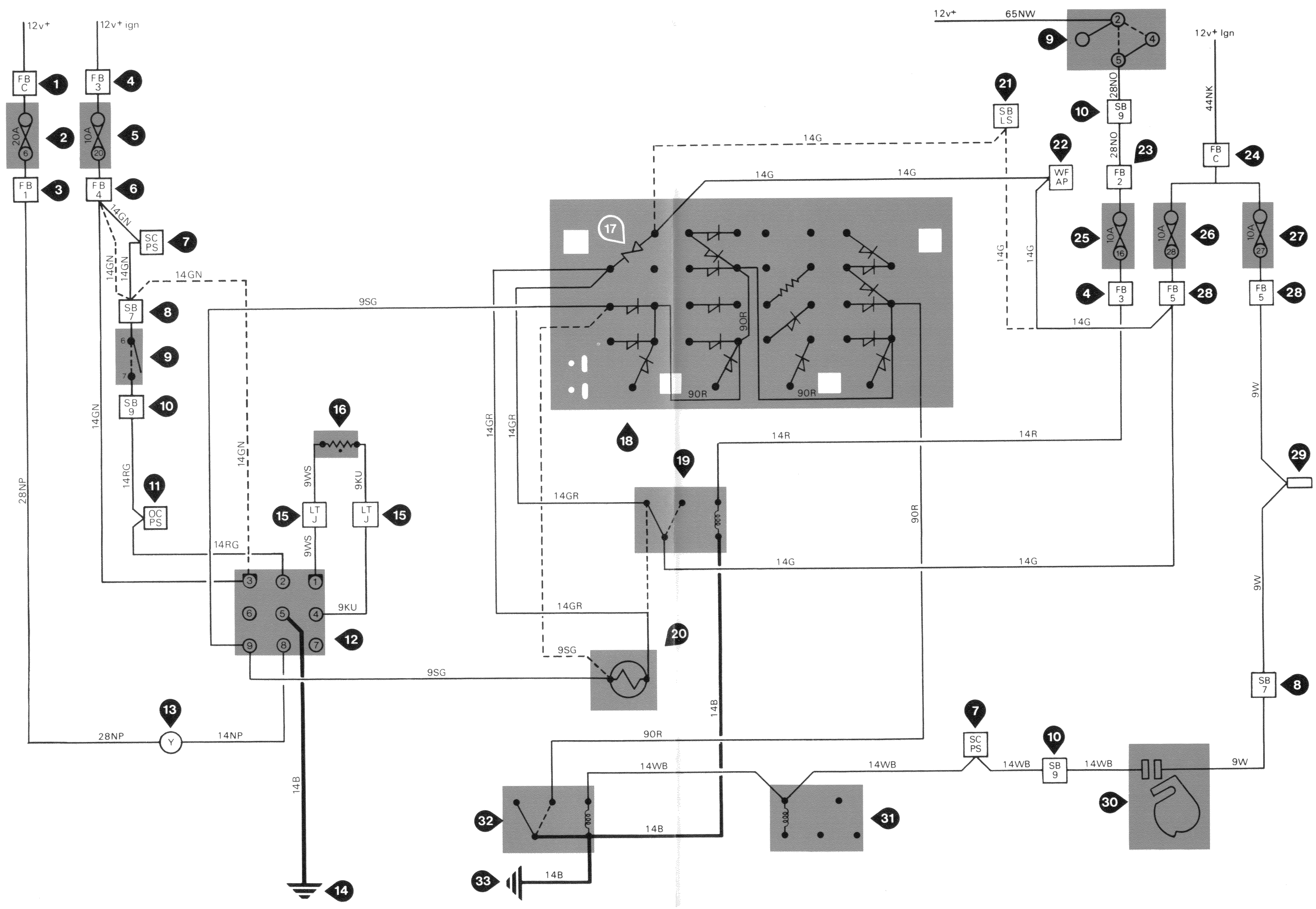




Digital instrument

Outside air temperature gauge, clock, and elapsed time indicator

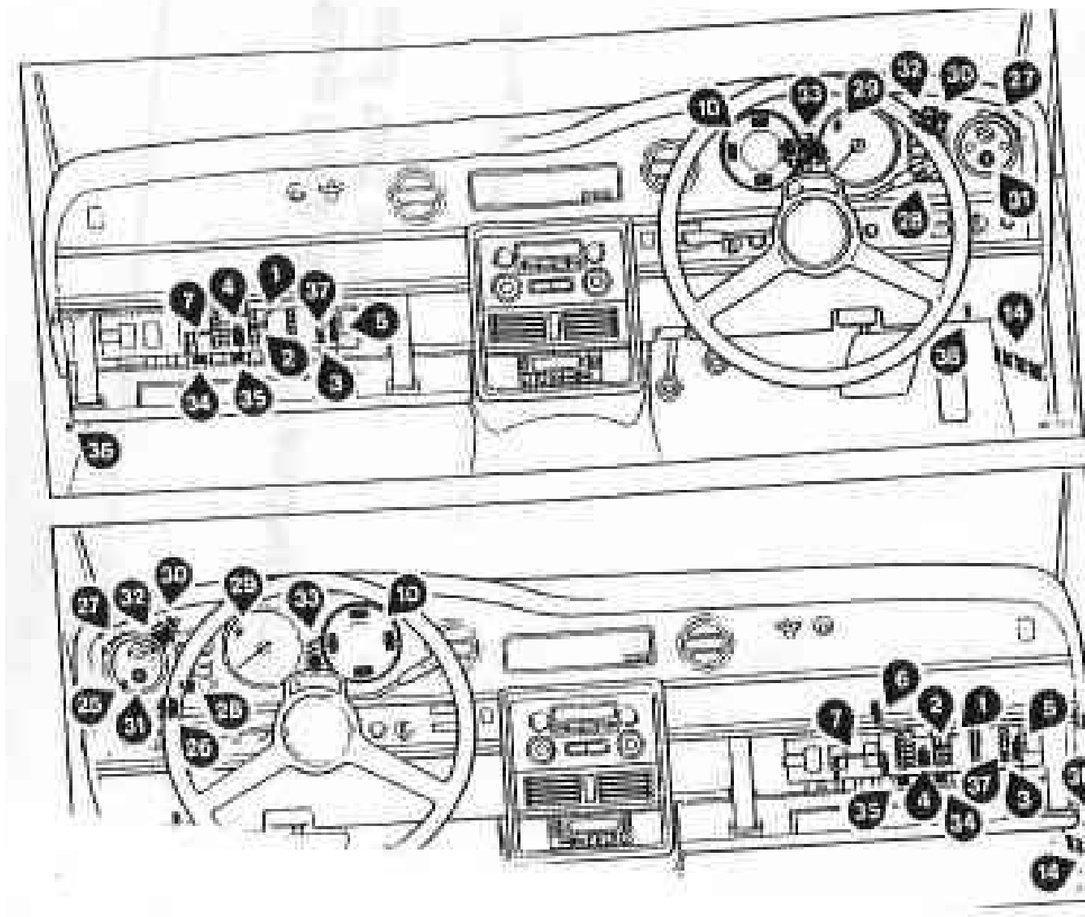
Wiring diagram and component location

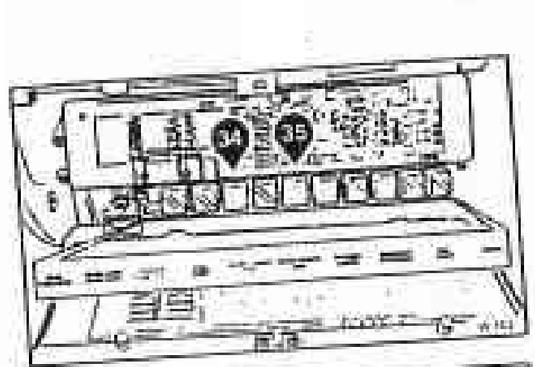


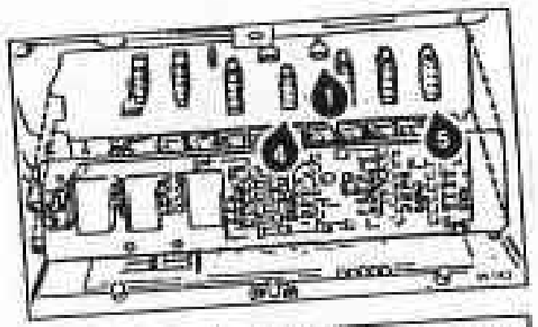
12v+
12v+ ign
FB C
20A
FB 1
FB 3
10A
FB 4
14GN
SC PS
SB 7
SB 9
14RG
OC PS
28NP
9WS
9KU
LT J
14RG
9SG
14NP
14B
28NP
Y
12v+
65NW
28NO
SB 9
28NO
FB 2
12v+ Ign
44NK
FB C
SB LS
WF AP
14G
10A
FB 3
FB 5
9W
9OR
14GR
14R
14G
9SG
14B
9OR
14WB
SC PS
SB 9
SB 7
9W
14B

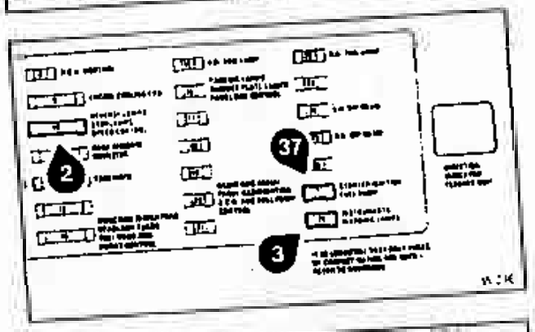
Stop lamp failure warning lamp and test circuits

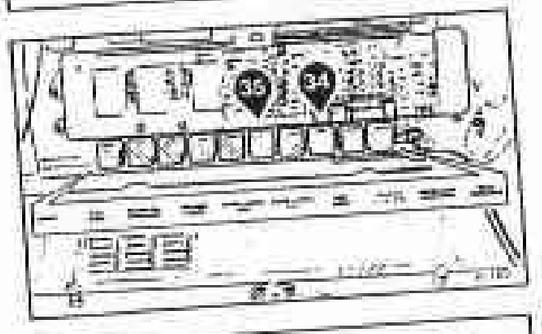
Wiring diagram and component location

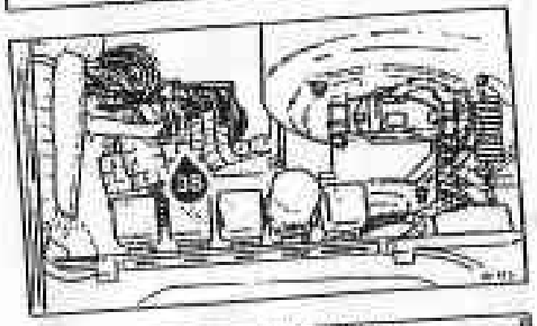


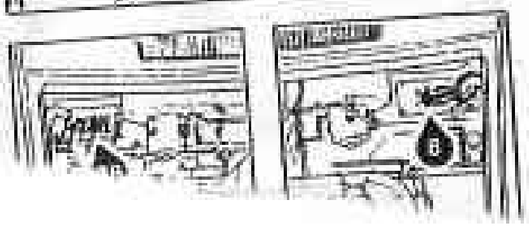




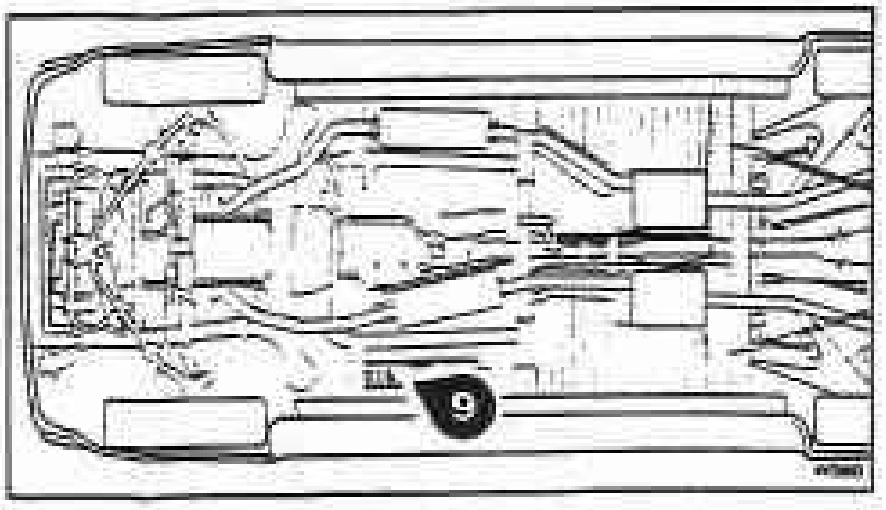


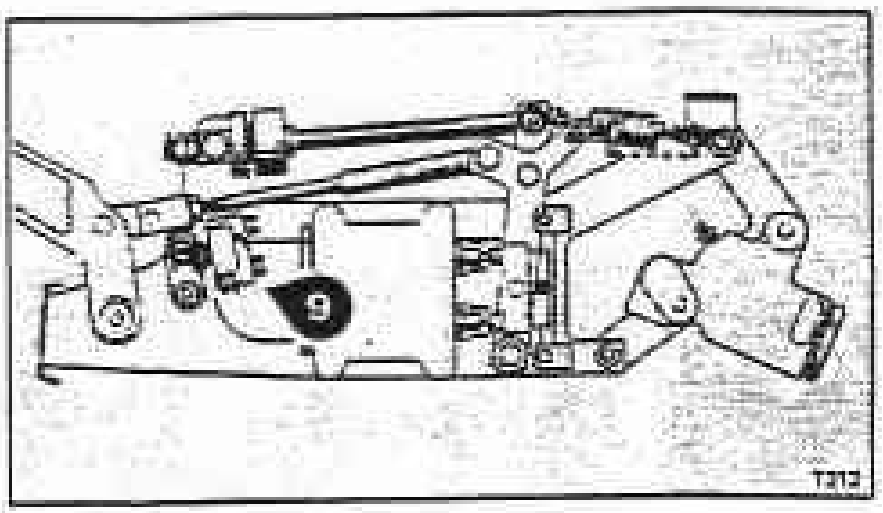


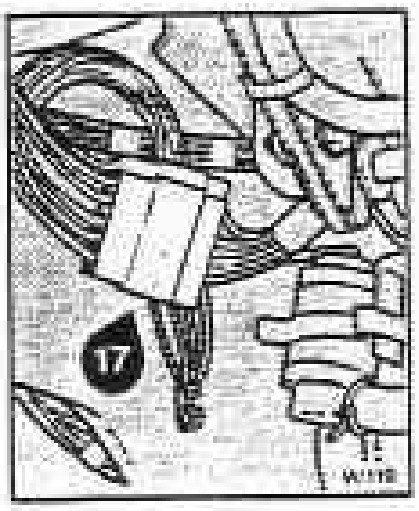


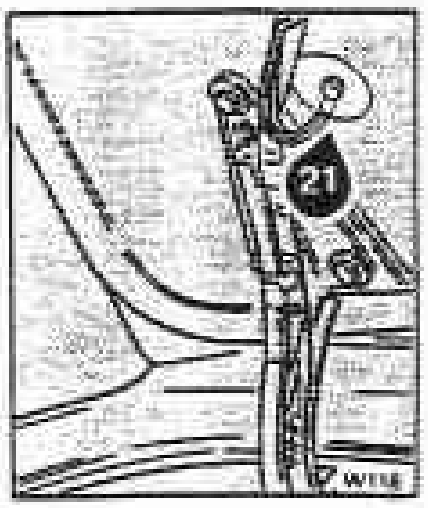


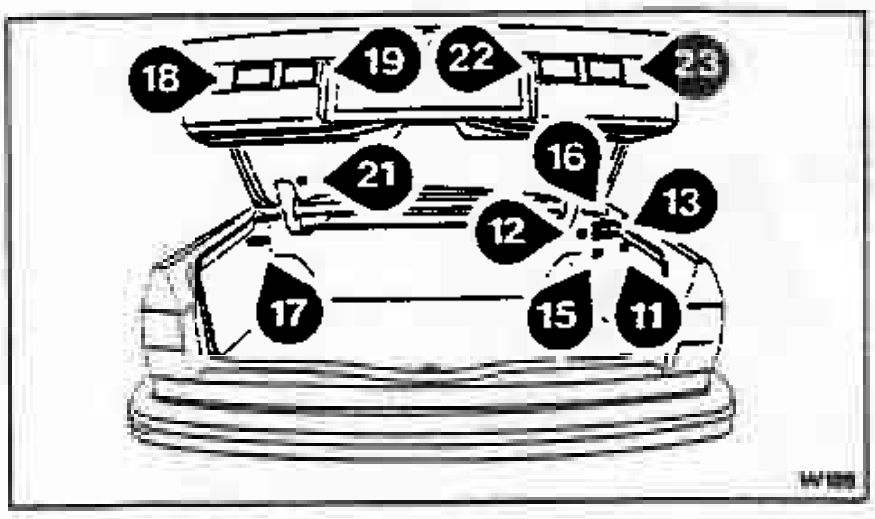
The stop lamps items 35 and 36 are only fitted on cars conforming to a North American specification.

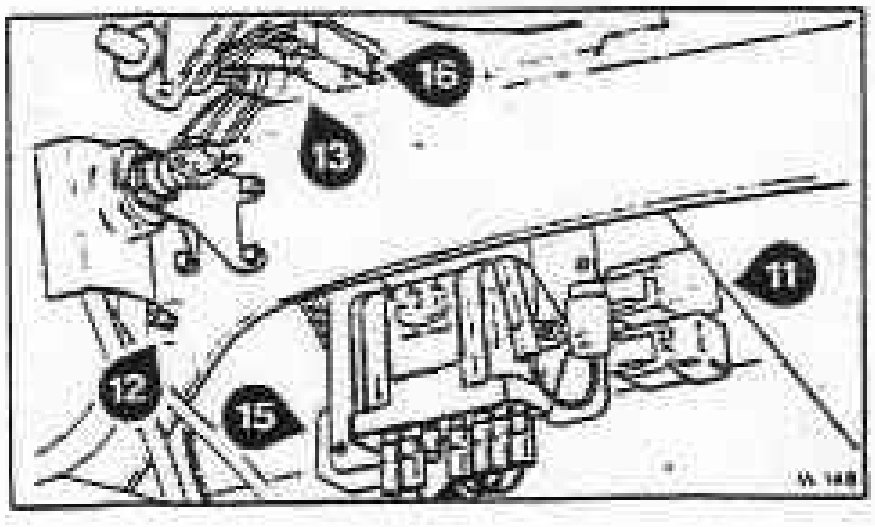








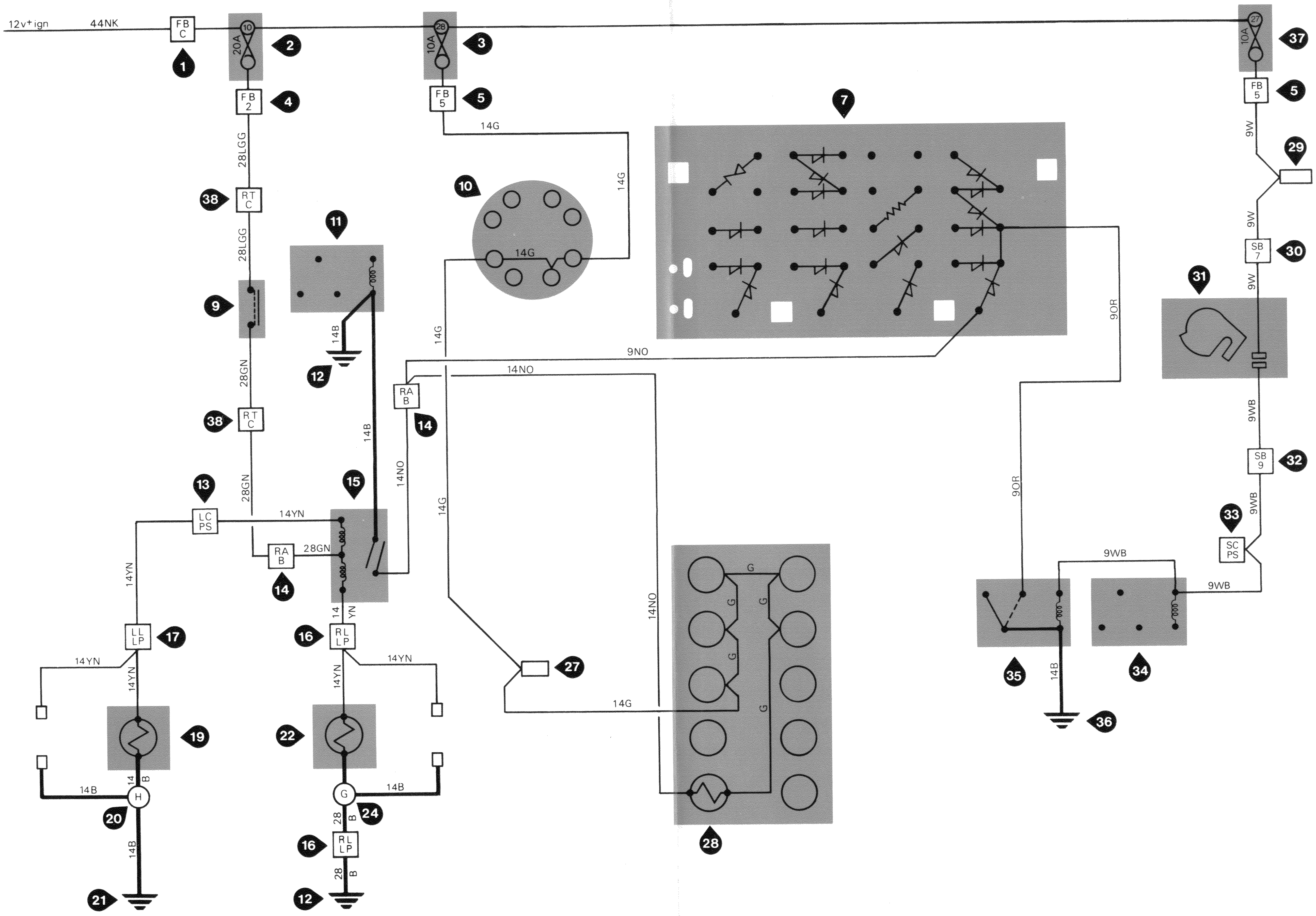




Stop lamp failure warning lamp and test circuits

Right-hand drive cars

Wiring diagram and component location


12v+ ign
44NK
FB C
20A
10A
10A
FB 2
FB 5
FB 5
28LGG
RT C
28GN
14G
9W
9WB
SB 7
SB 9
SC PS
9OR
9NO
14NO
14B
RA B
LC PS
14YN
28GN
LL LP
RL LP
H
G
28 B
14 B
G
9WB
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Stop lamp failure warning lamp and test circuits

Left-hand drive cars

Wiring diagram and component location