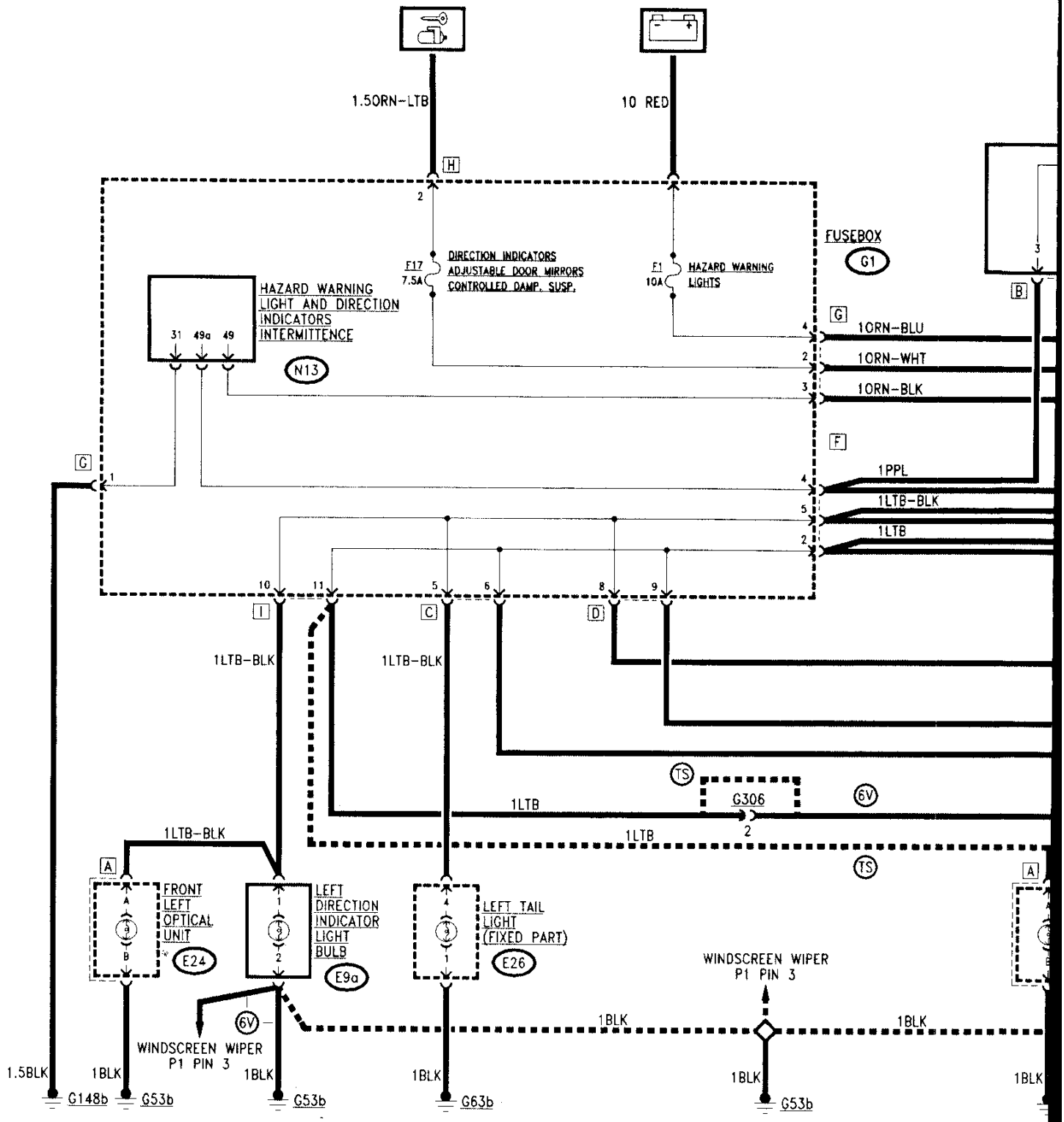
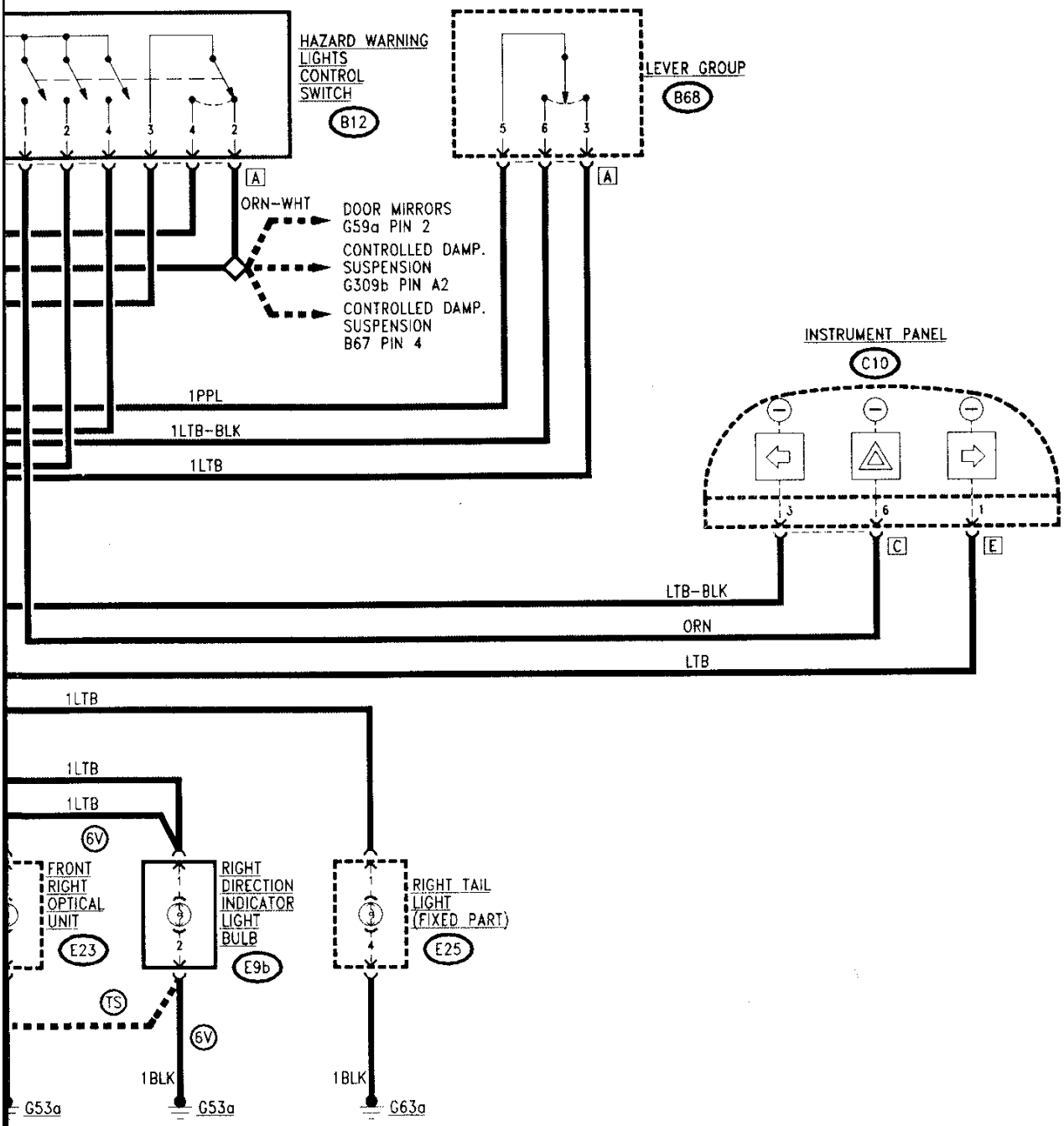
DIRECTION INDICATORS AND HAZARD WARNING LIGHTS

JDEX

WIRING DIAGRAM




HAZARD WARNING LIGHTS CONTROL SWITCH
B12
LEVER GROUP
B68
ORN-WHT
DOOR MIRRORS G59a PIN 2
CONTROLLED DAMP. SUSPENSION G309b PIN A2
CONTROLLED DAMP. SUSPENSION B67 PIN 4
INSTRUMENT PANEL
C10
1PPL
1LTB-BLK
1LTB
LTB-BLK
ORN
LTB
1LTB
1LTB
1LTB
6V
FRONT RIGHT OPTICAL UNIT
E23
RIGHT DIRECTION INDICATOR LIGHT BULB
E9b
RIGHT TAIL LIGHT (FIXED PART)
E25
TS
6V
1BLK
1BLK
G53a
G53a
G63a

GENERAL DESCRIPTION

The intermittent direction indicators and hazard warning lights are positioned at the corners of the vehicle.

The right and left direction indicators are selected by raising or lowering the specific lever located in the lever group; the hazard warning lights (right and left direction indicators activated simultaneously) are switched on by acting on the switch located behind the steering wheel near the instrument panel.

The direction indicators operate when the ignition key is inserted, the hazard warning lights, for obvious reasons of safety, are supplied directly by the battery.

Two intermittent warning lamps located on the instrument panel flash when either the right or left direction indicator has been selected. Another intermittent warning lamp signals the operation of the hazard warning lights.

The circuits of the direction indicators and the hazard warning lights are both protected by their own separate fuses.

FUNCTIONAL DESCRIPTION

The circuit is controlled by the hazard warning lights and direction indicators intermittence **N13** located in fusebox **G1**.

The intermittence, grounded, pin 31, receives a supply signal, pin 49, throught the hazard warning lights switch **B12**: when these are not selected, supply is key-operated through fuse **F17** (7.5A) of fusebox **G1**; when the hazard warning lights are selected, the supply comes directly from the battery through fuse **F1** (10 A) in **G1**.

The device **N13** generates an intermittent signal which leaves pin 49a and supplies the contacts of switch **B12** and the direction indicators switch of lever group **B68**.

By acting on the specific lever in lever group **B68**, the right-hand direction indicators (**E23, E9b** and **E25**) or the left-hand indicators (**E24, E9a** ed **E26**) are actuated as is the relative warning lamp on the instrument panel **C10**.

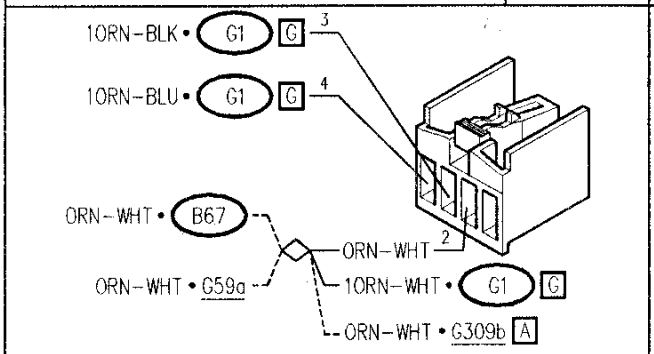
Pressing switch **B12** closes the three contacts which supply the right and left-hand indicators and the hazard warning lights warning lamp on the instrument panel **C10**.

TROUBLESHOOTING TABLE

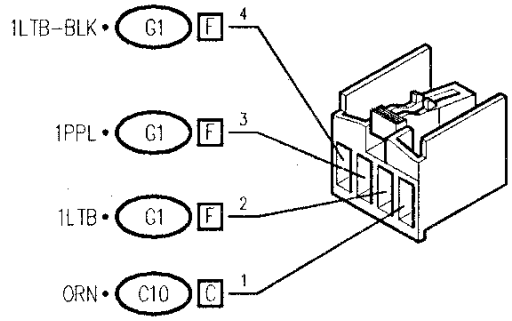
Malfunction	Component											Test
	F1	F17	N13	B68	B12	E23	E24	E9a	E9b	E25	E26	C10	
All direction indicators		●	●		●								A
Hazard warning lights	●		●		●								B
RH direction indicator				●									C
LH direction indicator				●									D
Front right light						●							E
Right side light									●				F
Right rear light										●			G
Front left light							●						H
Left side light								●					I
Left rear light											●		J
RH warning lamp												●	K
LH warning lamp												●	L
Hazard warning lights warning lamp												●	M

COMPONENTS AND CONNECTORS

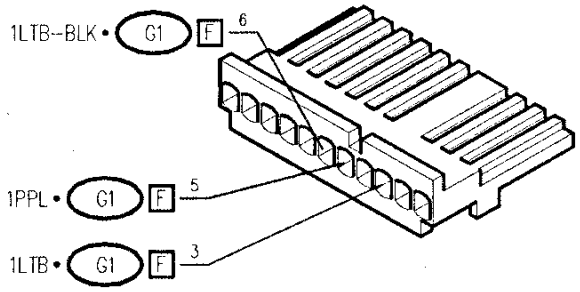
Hazard warning lights control switch	B12 A



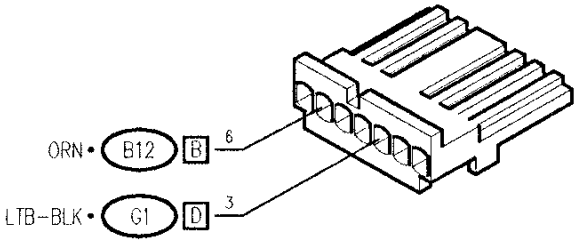
Hazard warning lights control switch	B12 B



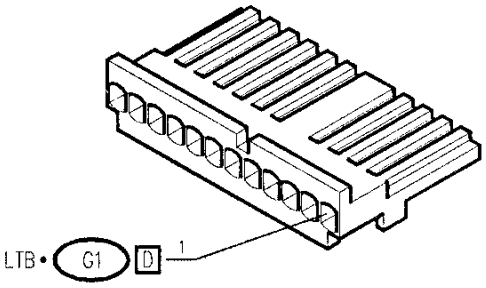
Lever group	B68 A



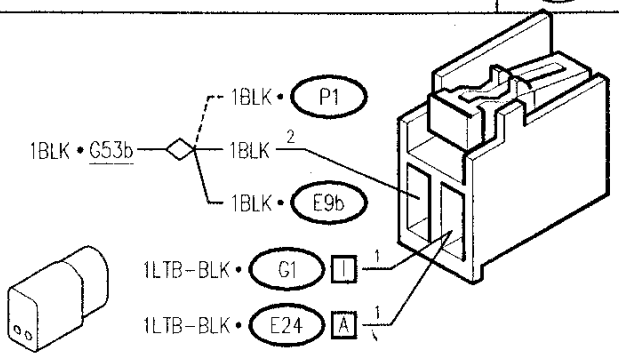
Instrument panel	C10 C



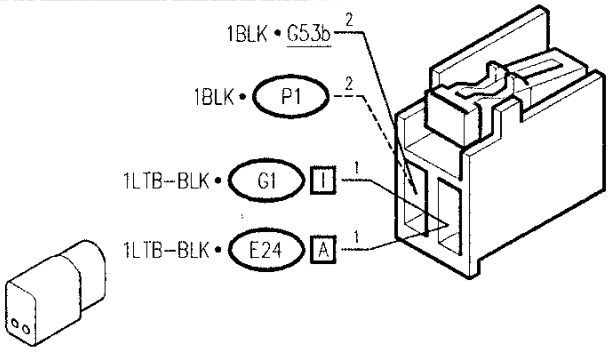
Instrument panel	C10 E



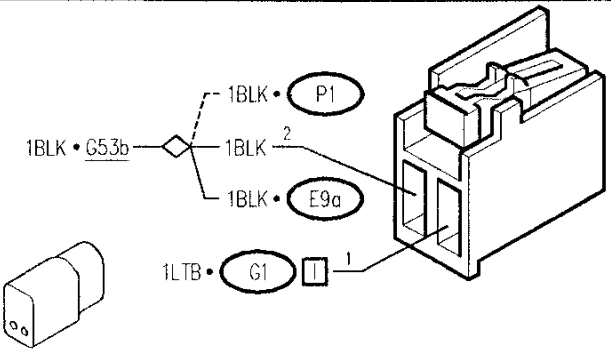
Left direction indicator light bulb TS	E9a



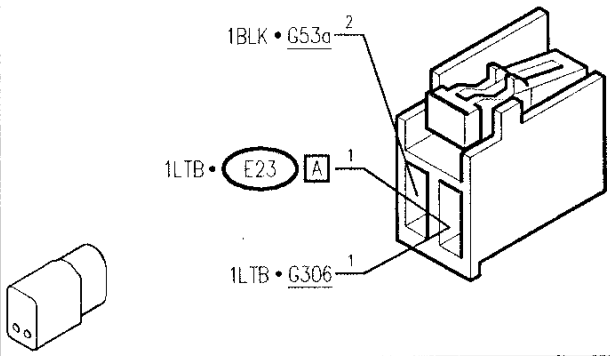
Left direction indicator light bulb 6V	E9a



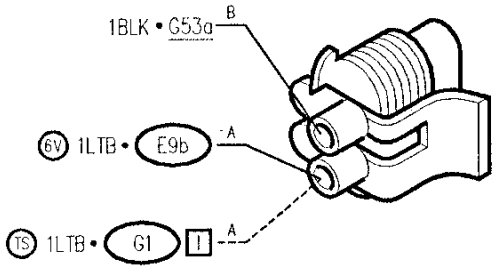
Right direction indicator light bulb TS	E9b



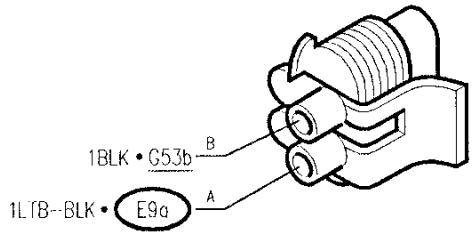
Left direction indicator light bulb 6V	E9b



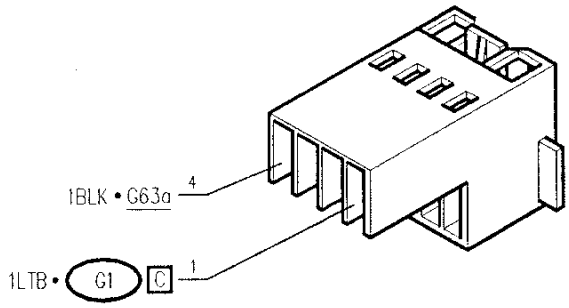
Front right optical unit	E23 A



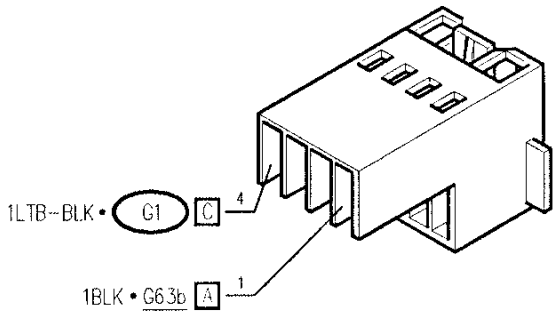
Front left optical unit	E24 A



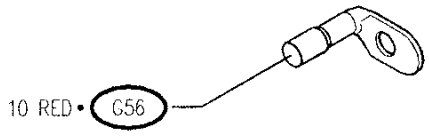
Right tail light (fixed part)	E25



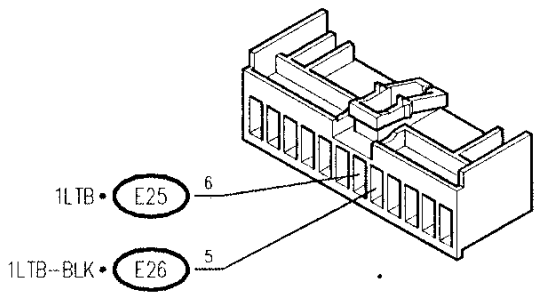
Left tail light (fixed part)	E26



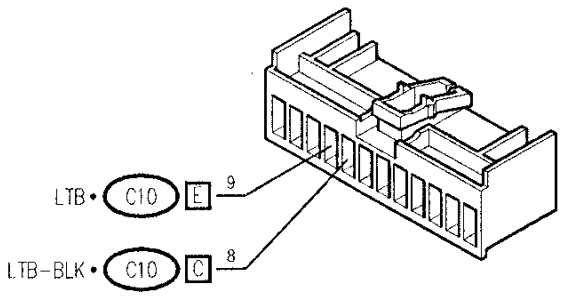
Fusebox	G1



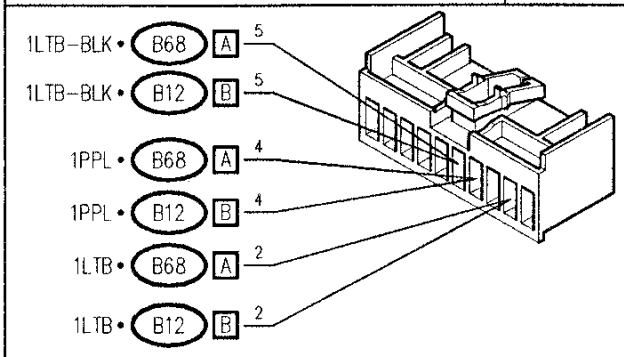
Fusebox	G1 C



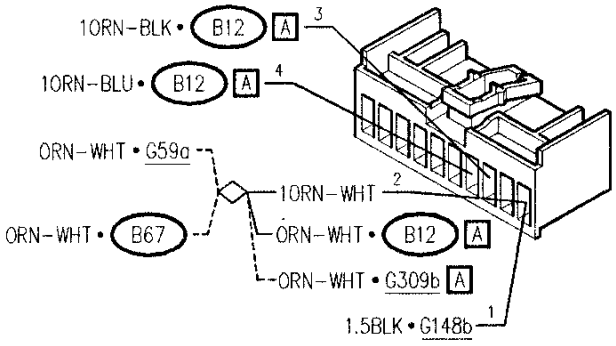
Fusebox	G1 D



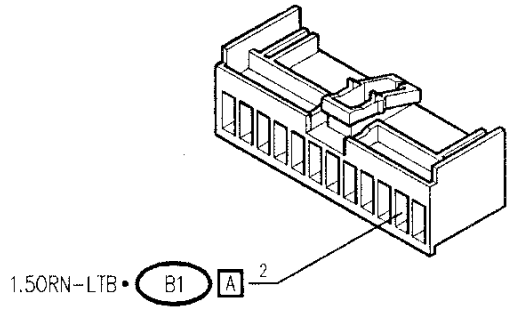
Fusebox G1 F



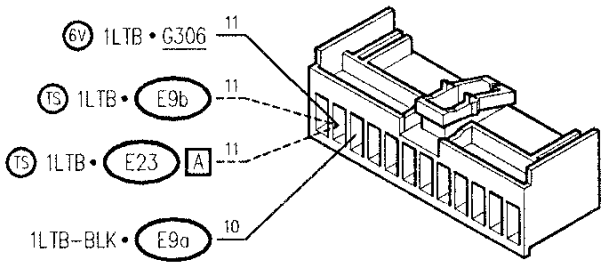
Fusebox G1 G



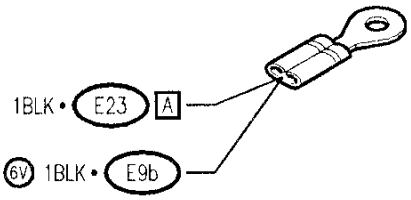
Fusebox G1 H



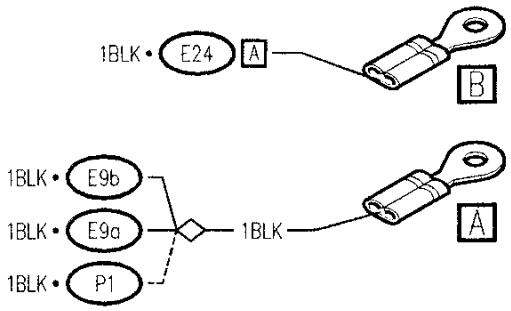
Fusebox G1 I



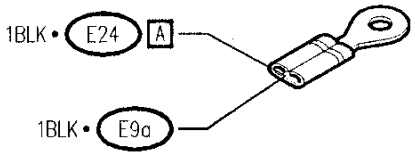
Engine compartment ground-right side G53a



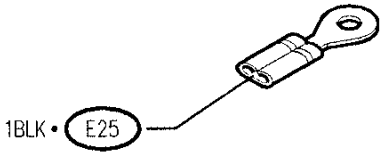
Engine compartment ground-left side TS G53b

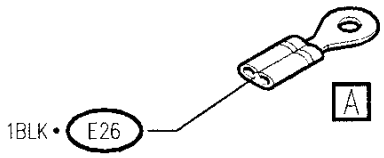
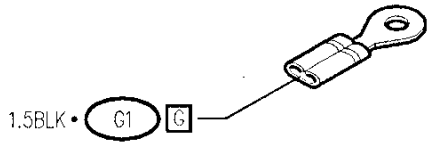


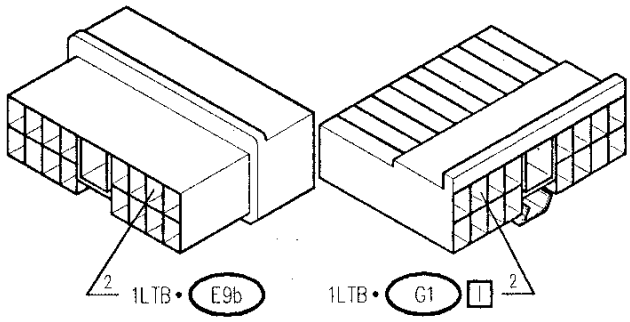
Engine compartment ground-left side 6V G53b



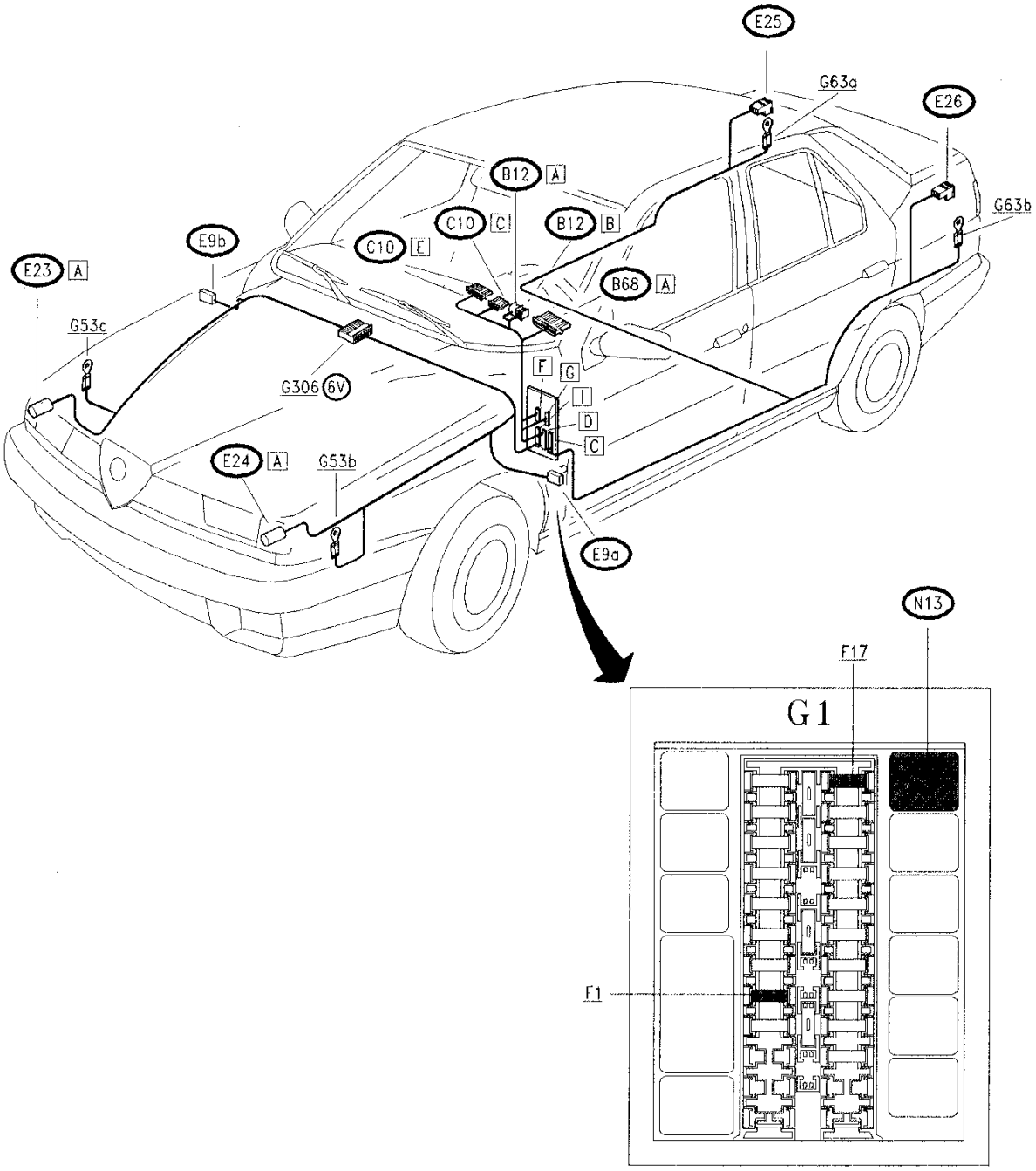
Rear right ground G63a



Rear left ground	G63b	Under-dashboard ground-left side	G148b
			

Engine wiring/right engine wiring connection	G306
	

LOCATION OF COMPONENTS



TROUBLESHOOTING

DIRECTION INDICATORS NOT WORKING	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A1 CHECK FUSE – Check for damage of fuse **F17** in fusebox **G1**	OK ➡	Carry out **step A2**
	~~OK~~ ➡	Replace the fuse (7.5A)
A2 CHECK SWITCH – Check for correct functioning of the hazard warning lights switch with the warning lights off: Check continuity between pin A2 and pin A3 of **B12**	OK ➡	Carry out **step A3**
	~~OK~~ ➡	Replace switch **B12** (ORN-BLK)
A3 CHECK VOLTAGE – Verify 12V at pin A2 of the hazard warning lights switch **B12**	OK ➡	Carry out **step A4**
	~~OK~~ ➡	Restore wiring between pin G2 of **G1** and pin A2 of **B12**, also across the solder (ORN-WHT)
A4 CHECK VOLTAGE – With ignition key rotated verify 12V at pin G3 of **G1**	OK ➡	Carry out **step A5**
	~~OK~~ ➡	Restore wiring between pin G3 of **G1** and pin A3 of **B12** (ORN-BLK)

(continues)

DIRECTION INDICATORS NOT WORKING	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A5 CHECK VOLTAGE – With ignition key rotated, verify 12V -intermittencies - at pin F4 of **G1**	OK ➡	Carry out **step A6**
	~~OK~~ ➡	Replace intermittence **N13**, located in **G1** **N.B.** In this case the hazard warning lights are also not working.
A6 CHECK VOLTAGE – With ignition key rotated, verify 12V -intermittencies - at pin A5 of lever group **B68**	OK ➡	Check and if necessary replace the lever group **B68**
	~~OK~~ ➡	Restore wiring between pin F4 of **G1** and pin A5 of **B68** (PPL)

HAZARD WARNING LIGHTS NOT WORKING	TEST B

NOTE: if the direction indicators are also not working, carry out this test together with the preceding **test A**

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK FUSE – Check for damage of fuse **F1** in fusebox **G1**	OK →	Carry out **step B2**
	~~OK~~ →	Replace the fuse (10A)
B2 CHECK VOLTAGE – Verify 12V at pin A4 of the hazard warning lights switch **B12**	OK →	Carry out **step B3**
	~~OK~~ →	Restore wiring between pin G4 of **G1** and pin A4 of **B12** (ORN-BLU)
B3 CHECK HAZARD WARNING LIGHTS SWITCH – Check for correct functioning of the switch **B12:** • with the hazard warning lights on, check continuity *between:* - pin A3 and A4 - pin B3 and B1, B2 and B4	OK →	Carry out **step B4**
	~~OK~~ →	Replace the switch **B12**

(continues)

HAZARD WARNING LIGHTS NOT WORKING	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B4 CHECK VOLTAGE – With hazard warning lights on verify 12V at pin G3 of **G1**	OK ➡	Carry out **step B5**
	~~OK~~ ➡	Restore wiring between pin G3 of **G1** and pin A3 of **B12** (ORN-BLK)
B5 CHECK VOLTAGE – With hazard warning lights on, verify 12V -intermittencies- at pin F4 of **G1**	OK ➡	Restore wiring between pin F4 of **G1** and pin B3 of **B12** (PPL)
	~~OK~~ ➡	Replace intermittence **N13**, located in **G1**. **N.B.** in this case not even the direction indicators are working.

NONE OF LIGHTS ON RIGHT SIDE OF VEHICLE WORKING	TEST C

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C1 CHECK VOLTAGE – With ignition key rotated and the right direction indicators on, verify 12V intermittencies at pin F2 of **G1**	OK →	Carry out the successive **tests E, F and G**
	OK →	Carry out **step C2**
C2 CHECK LEVER GROUP – Check for correct functioning of lever group: With right-hand direction indicators on, check continuity between pin A5 and A3 of **B68**	OK →	Restore wiring between pin A3 of **B68** and pin F2 of **G1**, and between pin B2 of **B12** and pin F2 of **G1** (LTB)
	OK →	Replace the lever group **B68**, left part

NONE OF THE LIGHTS ON LEFT SIDE OF VEHICLE WORKING	TEST D

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
D1 CHECK VOLTAGE – With ignition key rotated and left-hand direction indicators on, verify 12V intermittencies at pin F5 of **G1**	OK ➡	Carry out the successive **tests H,I and J**
	~~OK~~ ➡	Carry out **step D2**
D2 CHECK LEVER GROUP – Check for correct functioning of lever group: with the left-hand direction indicators on, check continuity between pin A5 and A6 of **B68**	OK ➡	Restore wiring between pin A6 of **B68** and pin F5 of **G1**, and between pin B4 of **B12** and pin F5 of **G1** (LTB-BLK)
	~~OK~~ ➡	Replace the lever group **B68**, left part

FRONT RIGHT LIGHT NOT WORKING	TEST E

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
E1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin AA and AB of right-hand light assembly **E23**	OK →	Carry out **step E2**
	OK →	Carry out **step E3**
E2 CHECK BULB – Check for damage of direction indicator bulb, located in the light assembly **E23**	OK →	Check and if necessary replace the complete light assembly **E23**
	OK →	Replace the bulb
E3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin AA of light assembly **E23**	OK →	Restore wiring between pin AB of **E23** and ground **G53a** (BLK)
	OK →	Restore wiring between: -(TS) pin I11 of **G1** and pin AA of **E23** (LTB) -(6V) pin I11 of **G1** and pin 2 of **G306**, and between pin 2 of **G306** and pin AA of **E23**, through pin 1 of **E9b** (LTB) In this case the right side light **E9b** is also not working, see **test F**.

RIGHT-HAND SIDE LIGHT NOT WORKING	TEST F

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
F1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin 1 and 2 of right-hand side light **E9b**	OK ➡	Carry out **step F2**
	~~OK~~ ➡	Carry out **step F3**
F2 CHECK BULB – Check for damage of direction indicator bulb, of **E9b**	OK ➡	Check and if necessary replace the complete light **E9b**
	~~OK~~ ➡	Replace the bulb
F3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin 1 of light **E9b**	OK ➡	Restore wiring between: -(TS) pin 2 of **E9b** and ground **G53b**, also across the solder (BLK) -(6V) pin 2 of **E9b** and ground **G53a** (BLK)
	~~OK~~ ➡	Restore wiring between: -(TS) pin I11 of **G1** and pin 1 of **E9b** (LTB) -(6V) pin I11 of **G1** and pin 2 of **G306**, and between pin 2 of **G306** and pin 1 of **E9b** (LTB)

REAR RIGHT-HAND LIGHT NOT WORKING	TEST G

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
G1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin 1 and 4 of rear right light assembly **E25**	OK ➡	Carry out **step G2**
	~~OK~~ ➡	Carry out **step G3**
G2 CHECK BULB – Check for damage of direction indicator bulb, located in the light assembly **E25**	OK ➡	Check and if necessary replace complete light assembly **E25**
	~~OK~~ ➡	Replace the bulb
G3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin 1 of **E25**	OK ➡	Restore wiring between pin 4 of **E25** and ground **G63a** (BLK)
	~~OK~~ ➡	Restore wiring between pin C6 of **G1** and pin 1 of **E25** (LTB)

FRONT LEFT LIGHT NOT WORKING	TEST H

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
H1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin AA and AB of left light assembly **E24**	OK ➡	Carry out **step H2**
	~~OK~~ ➡	Carry out **step H3**
H2 CHECK BULB – Check for damage of direction indicator bulb, located in the light assembly **E24**	OK ➡	Check and if necessary replace the complete light assembly **E24**
	~~OK~~ ➡	Replace the bulb
H3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin AA of light assembly **E24**	OK ➡	Restore wiring between pin AB of **E24** and ground **G53b** (BLK)
	~~OK~~ ➡	Restore wiring between pin I10 of **G1** and pin AA of **E24**, through pin 1 of **E9a** (LTB-BLK) In this case the left side light **E9a** is also not working, see **test I**.

LEFT-HAND SIDE LIGHT NOT WORKING	TEST I

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
I1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin 1 and 2 of left-hand side light **E9a**	OK ➡	Carry out **step I2**
	~~OK~~ ➡	Carry out **step I3**
I2 CHECK BULB – Check for damage of direction indicator bulb, of **E9a**	OK ➡	Check and if necessary replace the complete light assembly **E9a**
	~~OK~~ ➡	Replace the bulb
I3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin 1 of light **E9a**	OK ➡	Restore wiring between: -(TS) pin 2 of **E9a** and ground **G53b**, also across the solder (BLK) -(6V) pin 2 of **E9a** and ground **G53b** (BLK)
	~~OK~~ ➡	Restore wiring between pin I10 of **G1** and pin 1 of **E9a** (LTB-BLK)

REAR LEFT-HAND LIGHT NOT WORKING	TEST J

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
J1 CHECK VOLTAGE – With lights on, verify 12V intermittencies between pin 1 and 4 of rear left-hand light assembly **E26**	OK ➡	Carry out **step J2**
	~~OK~~ ➡	Carry out **step J3**
J2 CHECK BULB – Check for damage of direction indicator bulb, located in the light assembly **E26**	OK ➡	Check and if necessary replace the complete light assembly **E26**
	~~OK~~ ➡	Replace the bulb
J3 CHECK VOLTAGE – With lights on, verify 12V intermittencies at pin 4 of **E26**	OK ➡	Restore wiring between pin 1 of **E26** and ground **G63b** (BLK)
	~~OK~~ ➡	Restore wiring between pin C5 of **G1** and pin 4 of **E26** (LTB- BLK)

RIGHT-HAND DIRECTION INDICATOR WARNING LAMP ON INSTRUMENT PANEL NOT WORKING	TEST K

Note: the direction indicators however, are working correctly

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
K1	CHECK VOLTAGE		
– With right-hand indicators on, verify 12V intermittencies at pin E1 of instrument panel **C10**		OK ➡	Carry out **step K2**
		OK ➡	Restore wiring between pin D9 of **G1** and pin E1 of **C10** (LTB)
K2	CHECK WARNING LAMP		
– Check for damage of right-hand direction indicators warning lamp, located on the instrument panel **C10**		OK ➡	Check and if necessary replace complete instrument panel **C10**
		OK ➡	Replace the warning light bulb

LEFT-HAND DIRECTION INDICATOR WARNING LAMP ON INSTRUMENT PANEL NOT WORKING	TEST L

Note: the direction indicators are however, working correctly

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
L1	CHECK VOLTAGE		
– With left-hand direction indicators on, verify 12V intermittencies at pin C3 of instrument panel **C10**		OK ➤	Carry out **step L2**
		~~OK~~ ➤	Restore wiring between pin D8 of **G1** and pin C3 of **C10** (LTB-BLK)
L2	CHECK WARNING LAMP		
– Check for damage of left-hand direction indicators warning lamp, located on the instrument panel **C10**		OK ➤	Check and if necessary replace complete instrument panel **C10**
		~~OK~~ ➤	Replace the warning light bulb

HAZARD WARNING LIGHTS WARNING LAMP ON INSTRUMENT PANEL NOT WORKING	TEST M

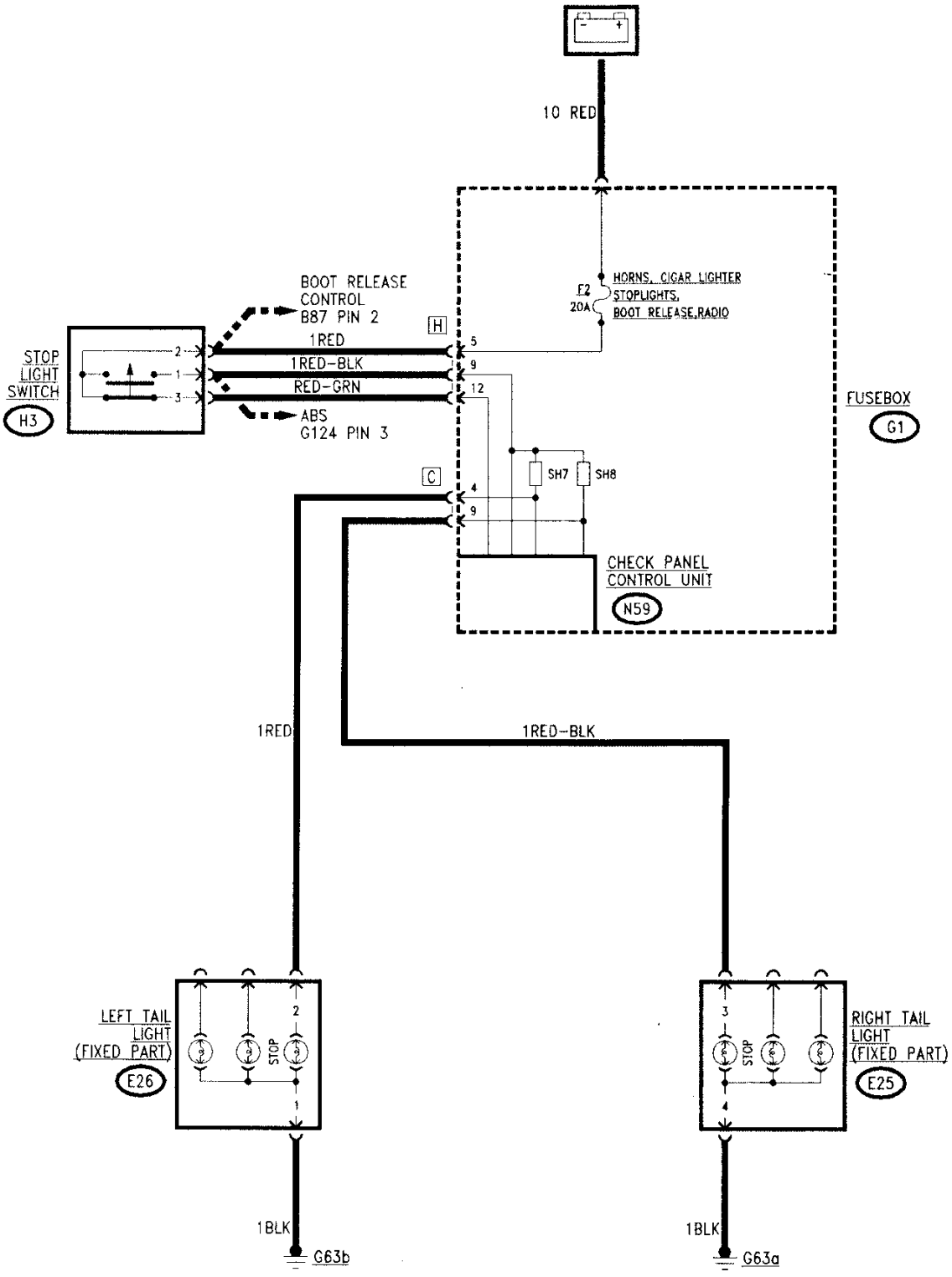
Note: the hazard warning lights however, are working correctly

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
M1 CHECK VOLTAGE – With hazard warning lights on, verify 12V intermittencies at pin B1 of the switch **B12**	OK →	Carry out **step M2**
	~~OK~~ →	Replace the switch **B12**
M2 CHECK VOLTAGE – With hazard warning lights on, verify 12V intermittencies at pin C6 of instrument panel **C10**	OK →	Carry out **step M3**
	~~OK~~ →	Restore wiring between pin B1 of the switch **B12** and pin C6 of **C10** (ORN)
M3 CHECK WARNING LAMP – Check for damage of hazard warning lights warning lamp, located on the instrument panel **C10**	OK →	Check and if necessary replace the complete instrument panel **C10**
	~~OK~~ →	Replace the warning light bulb

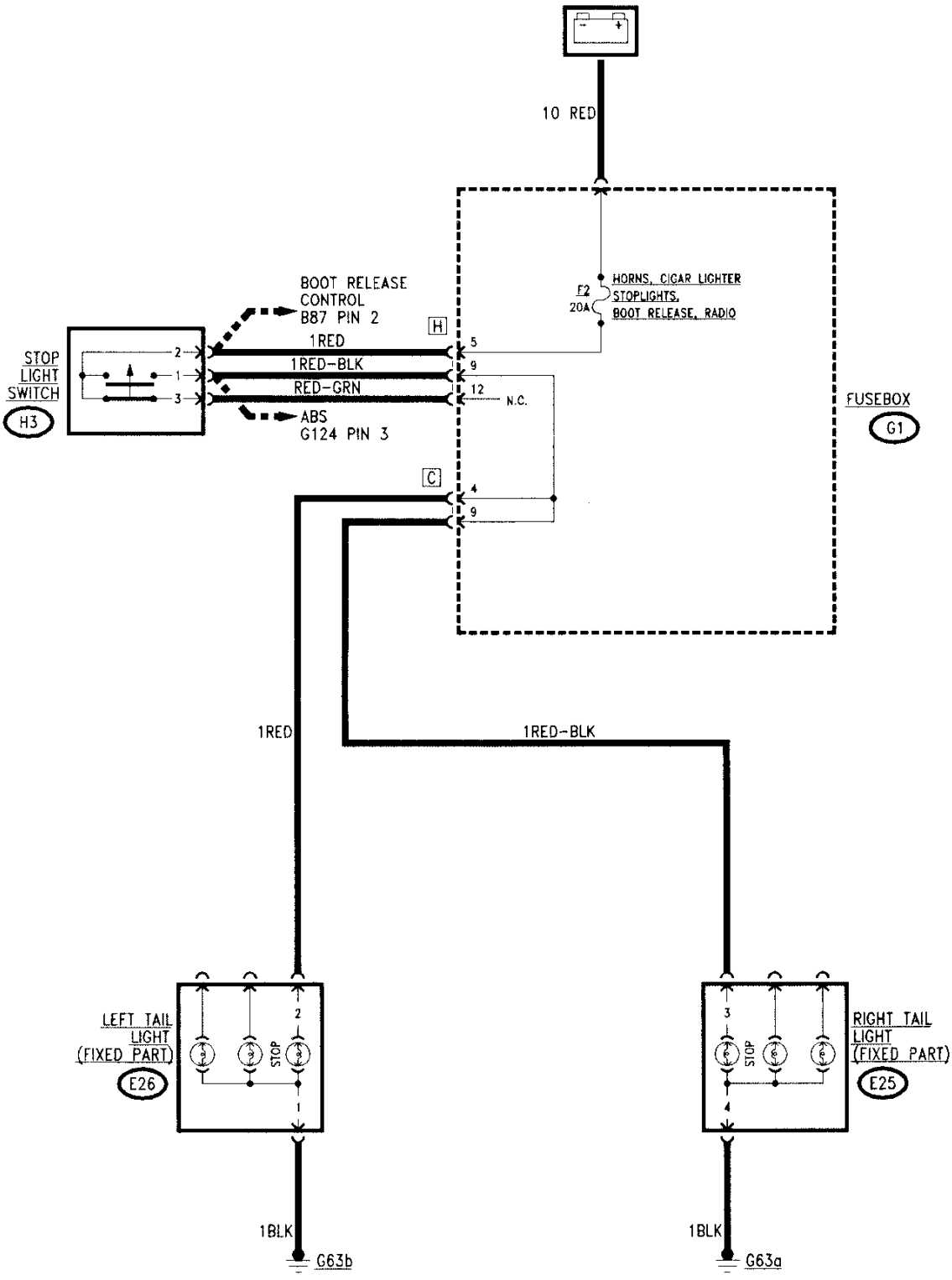
STOP-LIGHTS

INDEX

WIRING DIAGRAM
(Version with Check Panel)



WIRING DIAGRAM
(Version without Check Panel)



GENERAL DESCRIPTION

NOTE: Two distinct wiring diagrams are given, one for the models equipped with the Check Panel and one for models without this device.

The lights indicating that the vehicle is braking ("stop-lights") are operated each time the brake pedal is depressed; they are located at the rear of the vehicle in the side light assemblies.
The lights are illuminated automatically by a switch located on the brake pedal and operate under all conditions, even when the ignition key is disengaged.
The circuit is protected by its own fuse.

The correct functioning of the stop-lights is - for some versions - verified by the Check Panel which immediately alerts the driver in the event of a malfunction in the circuit. This is vital to safety. (see "Check Panel").

The braking signal from the switch is also sent to the ABS system control unit which recognizes the situation and as a consequence controls the braking parameters (see "A.B.S. System").

FUNCTIONAL DESCRIPTION

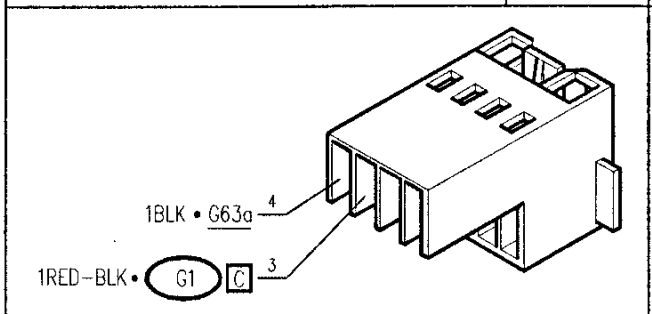
The stop-light circuit is supplied directly by battery voltage through fuse **F2** (20A) in the fusebox **G1**.
The stop-lights switch **H3** is formed by two contacts: the "rest position" contact is closed when the brake pedal is not depressed and signals the continuity of the circuit to the Check Panel control unit **N59**.
By depressing the brake pedal the "operating position" contact is closed and the stop lights located in the rear light assemblies **E25** (right) and **E26** (left) are then supplied. From these supply circuits the signals (both direct and by "SH" shunt) are then sent to the control unit **N59** which verifies the line load (see "Check Panel").

TROUBLESHOOTING TABLE

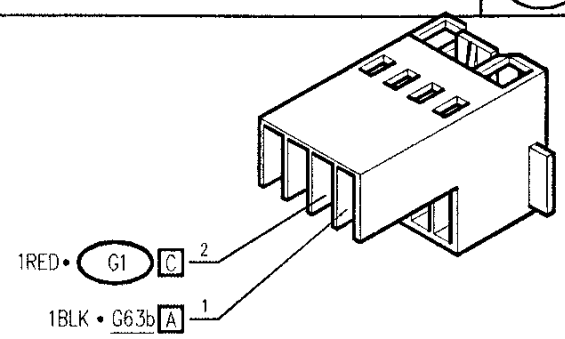
Malfunction	Component				Test
	F2	H3	E26	E25	
Both stop-lights	•	•			A
RH stop-light				•	B
LH stop-light			•		C

COMPONENTS AND CONNECTORS

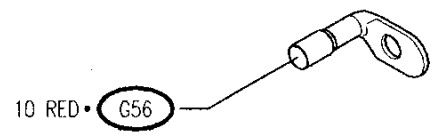
Right tail light (fixed part)	E25



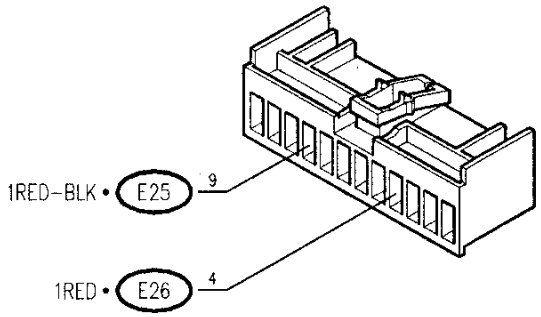
Left tail light (fixed part)	E26



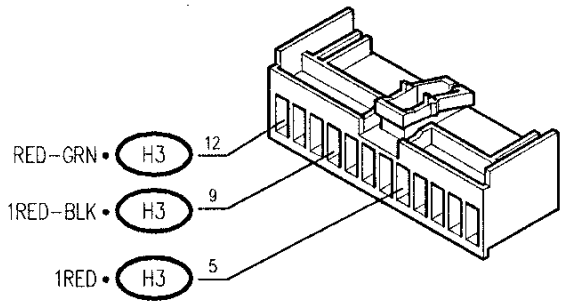
Fusebox	G1



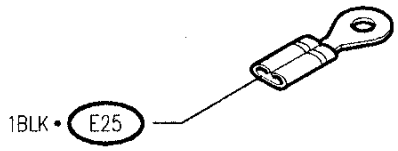
Fusebox	G1 C



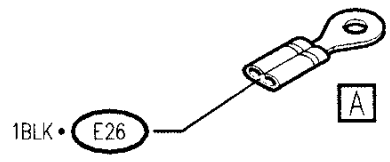
Fusebox	G1 H



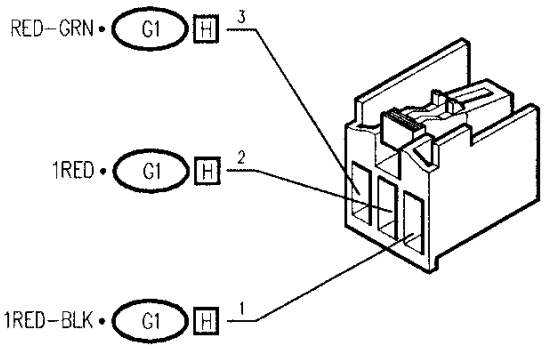
Rear right ground	G63a



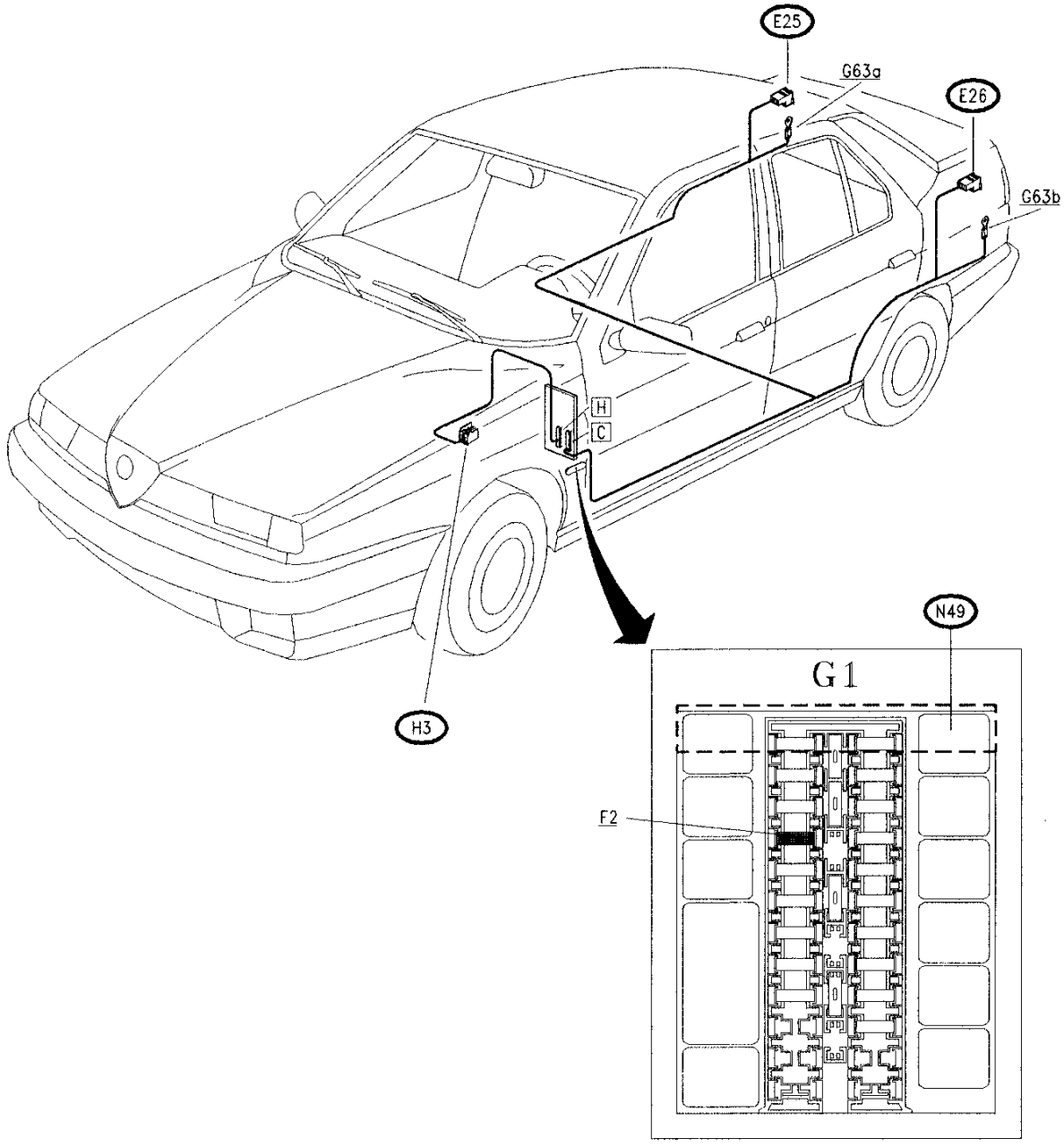
Rear left ground	G63b



Stop light switch	H3



LOCATION OF COMPONENTS



TROUBLESHOOTING

NONE OF STOP-LIGHTS WORKING	TEST A

NOTE: for versions equipped with the Check Panel device, refer to section: "Check Panel - Stop-lights check" before carrying out the following checks.

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A1 CHECK FUSE – Check for damage of fuse **F2** in fusebox **G1**	OK ➡	Carry out **step A2**
	~~OK~~ ➡	Replace fuse (20A)
A2 CHECK VOLTAGE – Verify 12V at pin 2 of the switch **H3**	OK ➡	Carry out **step A3**
	~~OK~~ ➡	Restore wiring between pin H5 of **G1** and pin 2 of the switch **H3** (RED)
A3 CHECK SWITCH – Check for correct functioning of the switch: • with brake pedal released verify 12V at pin 3; • with brake pedal depressed verify 12V at pin 1	OK ➡	Carry out **step A4**
	~~OK~~ ➡	Replace switch **H3**

(continues)

NONE OF STOP-LIGHTS WORKING	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A4 CHECK VOLTAGE – With brake pedal depressed, verify 12V at pin H9 of **G1**	OK ➡	Carry out **step A5**
	~~OK~~ ➡	Restore wiring between pin H9 of **G1** and pin 1 of the switch **H3** (RED-BLK)
A5 CHECK VOLTAGE – With brake pedal released, verify 12V at pin H12 of **G1**	OK ➡	See "Check Panel - Stop-lights check".
	~~OK~~ ➡	Restore wiring between pin H12 of **G1** and pin 3 of the switch **H3** (RED-GRN)

RIGHT-HAND STOP-LIGHT NOT WORKING	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK VOLTAGE – With brake pedal depressed, verify 12V between pin 3 and pin 4 of the light assembly **E25**	OK →	Carry out **step B2**
	~~OK~~ →	Carry out **step B3**
B2 CHECK BULB – Check for damage of stop light bulb, located in the rear light assembly **E25** (the first towards the centre)	OK →	Check and if necessary replace the complete light assembly **E25**
	~~OK~~ →	Replace the bulb
B3 CHECK VOLTAGE – With brake pedal depressed verify 12V at pin 3 of light assembly **E25**	OK →	Restore wiring between pin 4 of **E25** and ground **G63a** (BLK)
	~~OK~~ →	Restore wiring between pin C9 of **G1** and pin 3 of **E25** (RED-BLK)

LEFT-HAND STOP-LIGHT NOT WORKING	TEST C

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C1 CHECK VOLTAGE – With the brake pedal depressed, verify 12V between pin 2 and pin 1 of the light assembly **E26**	OK →	Carry out **step C2**
	~~OK~~ →	Carry out **step C3**
C2 CHECK BULB – Check for damage of the stop-light bulb, located in the rear light assembly **E26** (the first towards the centre)	OK →	Check and if necessary replace the complete light assembly **E26**
	~~OK~~ →	Replace the bulb
C3 CHECK VOLTAGE – With the brake pedal depressed, verify 12V at pin 2 of light assembly **E26**	OK →	Restore wiring between pin 1 of **E26** and ground **G63b** (BLK)
	~~OK~~ →	Restore wiring between pin C4 of **G1** and pin 2 of **E26** (RED)

REVERSING LIGHTS

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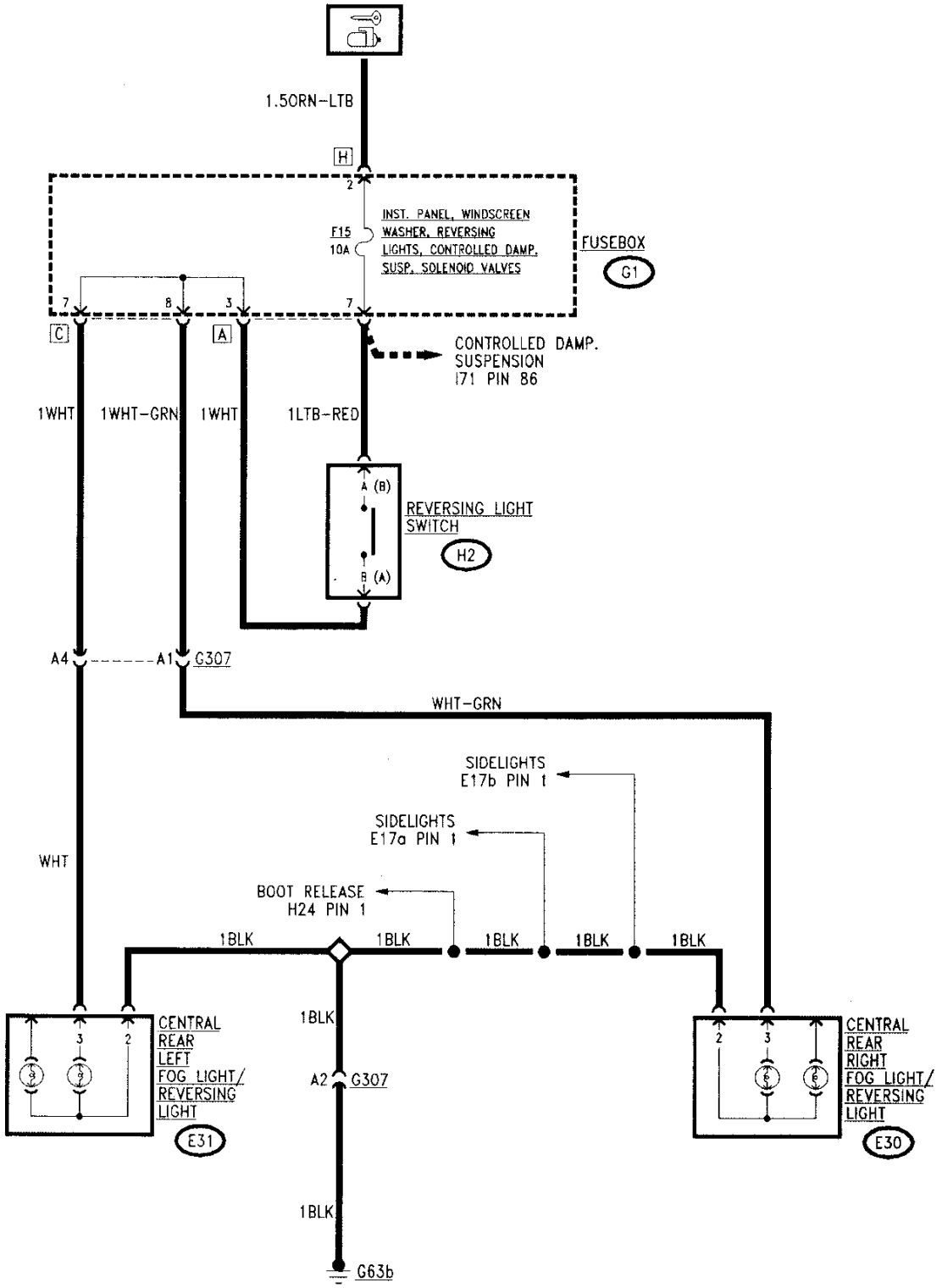
WIRING DIAGRAM



GENERAL DESCRIPTION

The vehicle is equipped with reversing lights located in the central part of the rear light assembly.
When reverse gear is selected, the reversing lights are automatically engaged by way of a switch located on the gearbox.
The circuit is protected by a fuse.

The reversing lights are operated when the ignition key is inserted and are independent from the other lights on the vehicle.

FUNCTIONAL DESCRIPTION

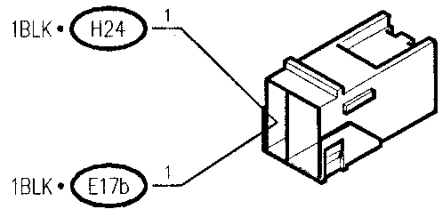
The circuit of the reversing lights is under key operated supply and is routed through fuse **F15** (10A) in fusebox **G1**.
When reverse gear is engaged, switch **H2** supplies the right (**E30**) and left (**E31**) reversing lights.

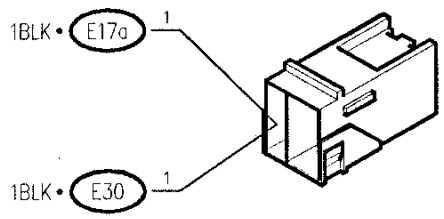
TROUBLESHOOTING TABLE

Malfunction	Component				Test
	F15	H2	E30	E31	
Both reversing lights	•	•			A
RH reversing light			•		B
LH reversing light				•	C

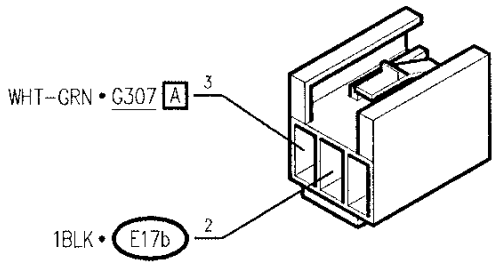
COMPONENTS AND CONNECTORS

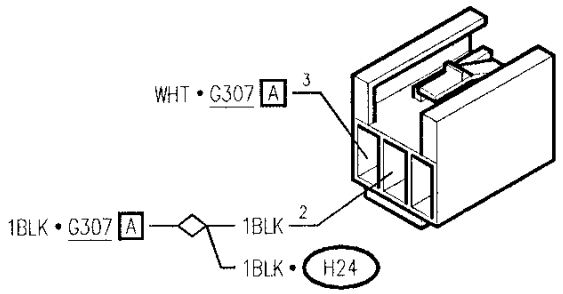
Left numberplate light bulb	E17a	Right numberplate light bulb	E17b



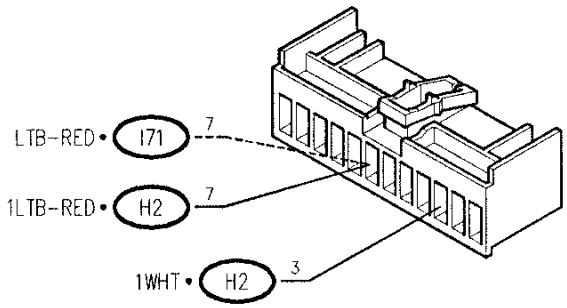


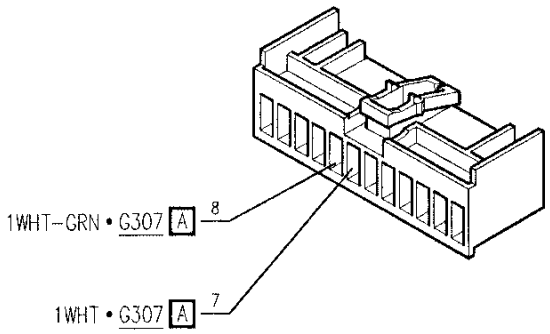
Central rear right fog-light/reversing light	E30	Central rear left fog-light/reversing light	E31



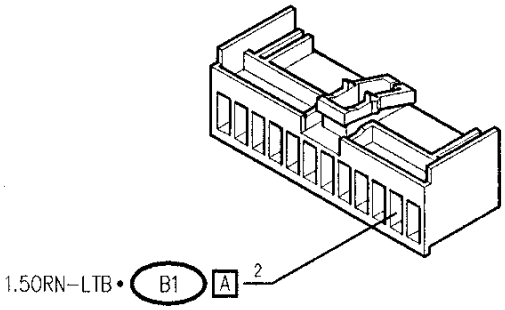


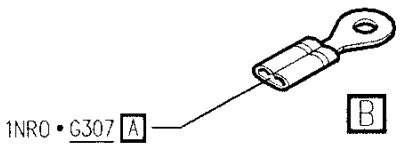
Fusebox	G1 A	Fusebox	G1 C



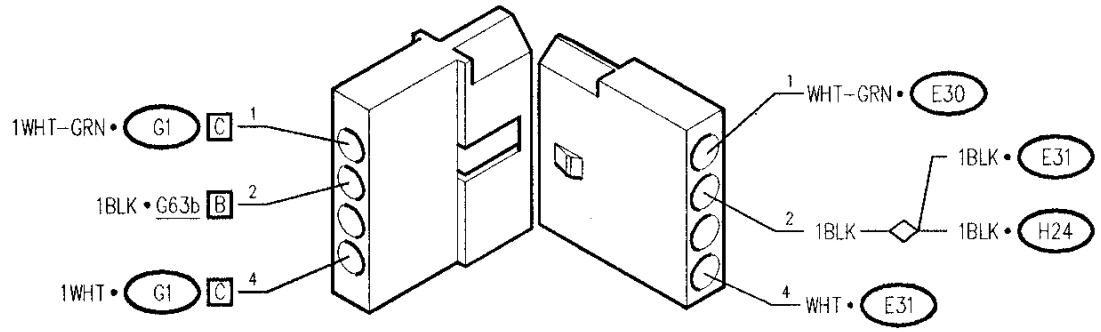


Fusebox	G1 H	Rear left ground	G63b

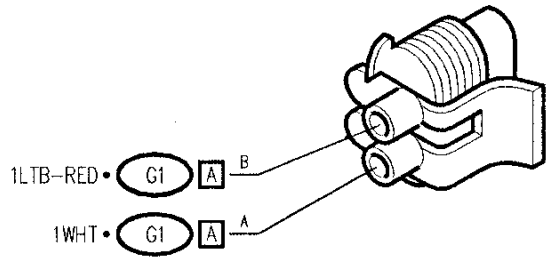


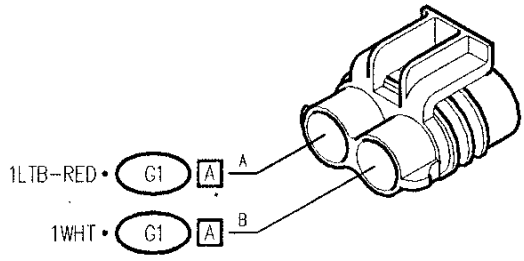


Rear wiring/luggage compartment wiring connection	G307 A

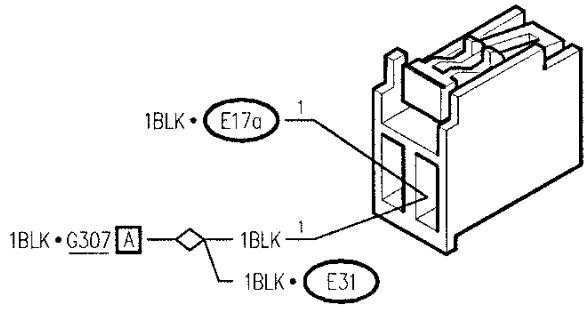


Reversing light switch TS	H2	Reversing light switch 6V	H2

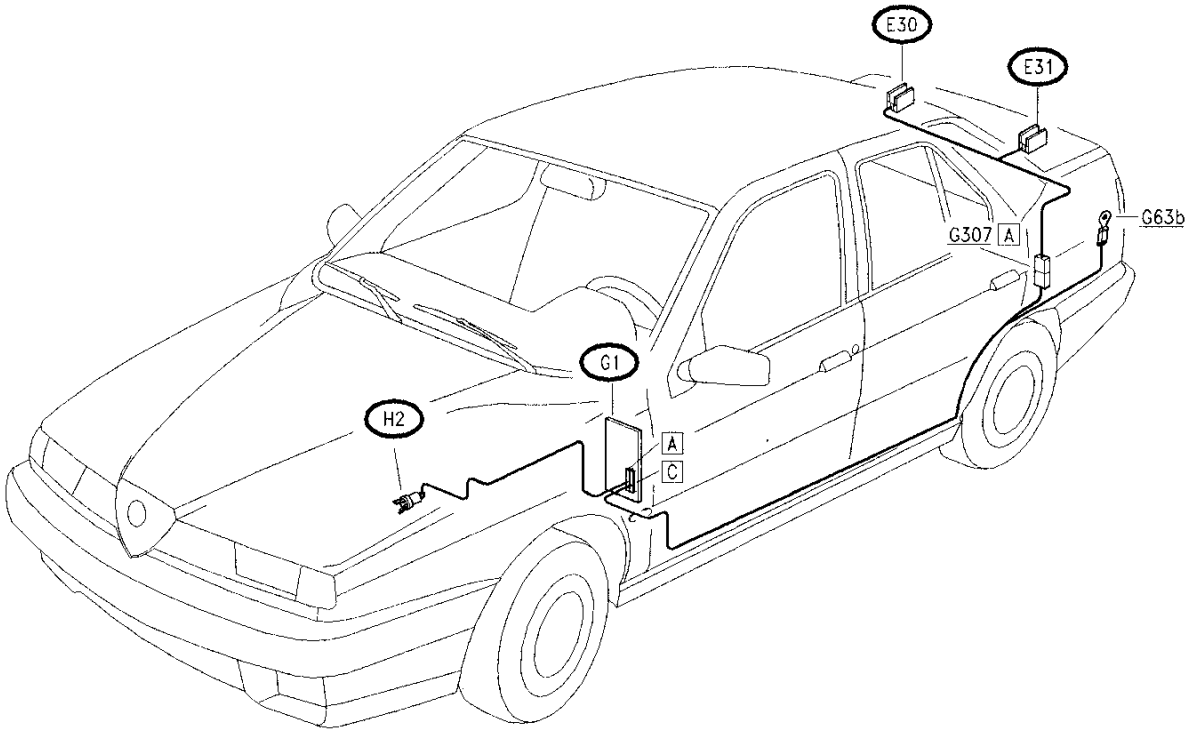




Luggage compartment lamp switch	H24



LOCATION OF COMPONENTS



TROUBLESHOOTING

NEITHER OF REVERSING LIGHTS WORKING	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A1 CHECK FUSE – Check for damage of fuse **F15** in fusebox **G1**	OK ➡	Carry out **step A2**
	~~OK~~ ➡	Replace fuse (10A)
A2 CHECK VOLTAGE – Rotate the ignition key and verify 12V at pin A reversing lights switch **H2**	OK ➡	Carry out **step A3**
	~~OK~~ ➡	Restore wiring between pin A7 of **G1** and pin A of switch **H2** (LTB-RED)
A3 CHECK SWITCH – Check for correct functioning of switch **H2:** • with ignition key rotated and reverse gear engaged, check continuity between pin A and B of **H2**	OK ➡	Carry out **step A4**
	~~OK~~ ➡	Replace switch **H2**

(continues)

NEITHER OF REVERSING LIGHTS WORKING	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A4 CHECK VOLTAGE – With ignition key rotated and reverse gear engaged, verify 12V at pin A3 of **G1**	OK ➡	Carry out **step A5**
	~~OK~~ ➡	Restore wiring between pin A3 of **G1** and pin B of **H2** (WHT)
A5 CHECK GROUND – Verify 0V at pin A2 of connector **G307**	OK ➡	Carry out **tests B and C**
	~~OK~~ ➡	Restore wiring between pin A2 of **G307** and ground **G63b** (BLK)

RIGHT-HAND REVERSING LIGHT NOT WORKING	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK VOLTAGE – With reverse gear engaged, verify 12V between pin 2 and 3 of the rear central light assembly **E30**	OK ➡	Carry out **step B2**
	~~OK~~ ➡	Carry out **step B3**
B2 CHECK BULB – Check for damage of the reversing light bulb in light assembly **E30** (inner bulb, with white transparency)	OK ➡	Check and if necessary replace the complete light assembly **E30**
	~~OK~~ ➡	Replace the bulb
B3 CHECK VOLTAGE – With reverse gear engaged, verify 12V at pin 3 of **E30**	OK ➡	Restore wiring between pin 2 of **E30** and the solder, across lights **E17a** and **E17b** and switch **H24** (BLK)
	~~OK~~ ➡	Restore wiring between pin C8 of **G1** and pin 3 of **E30**, across pin A1 of connector **G307** (WHT-GRN)

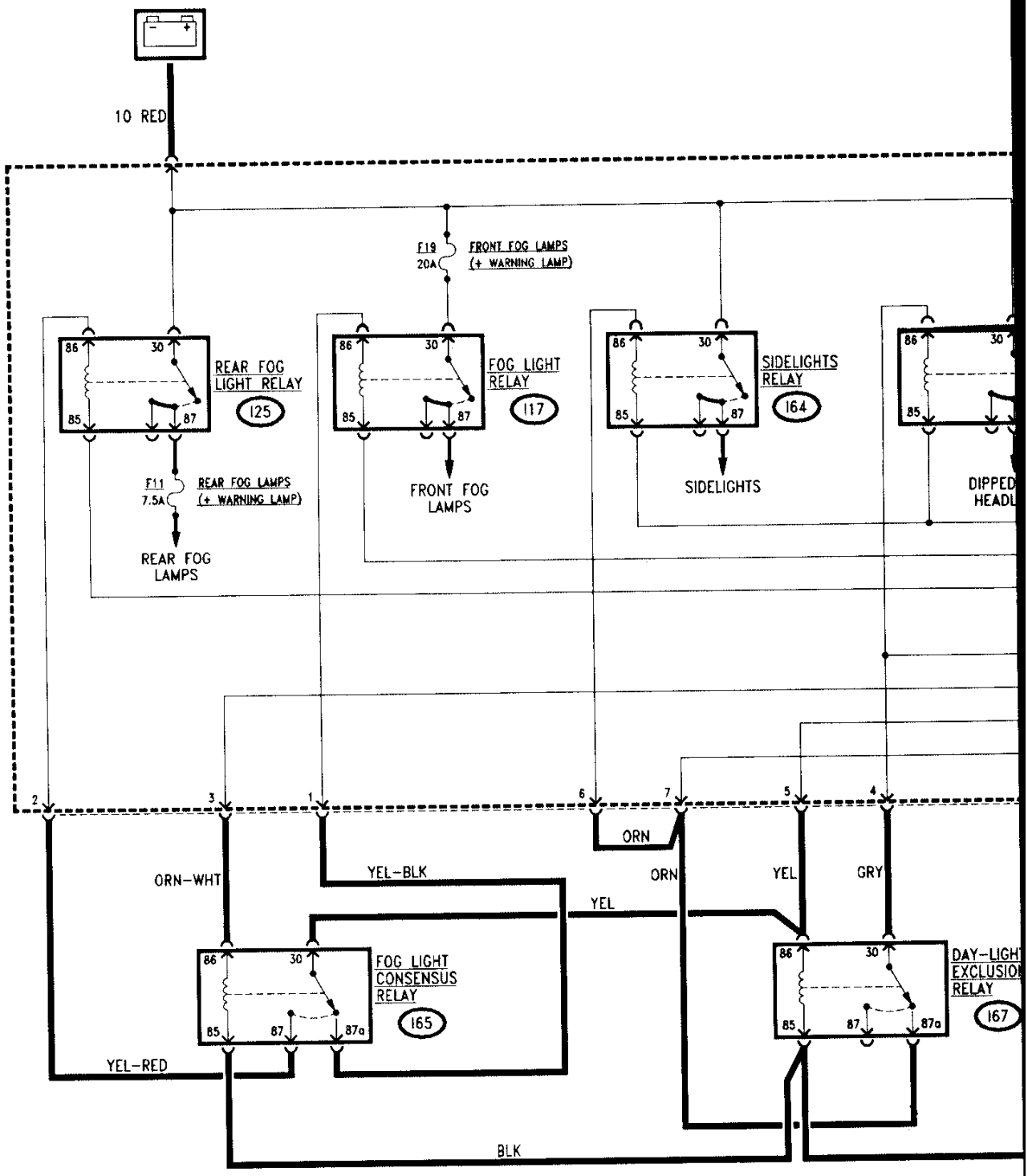
LEFT-HAND REVERSING LIGHT NOT WORKING	TEST C

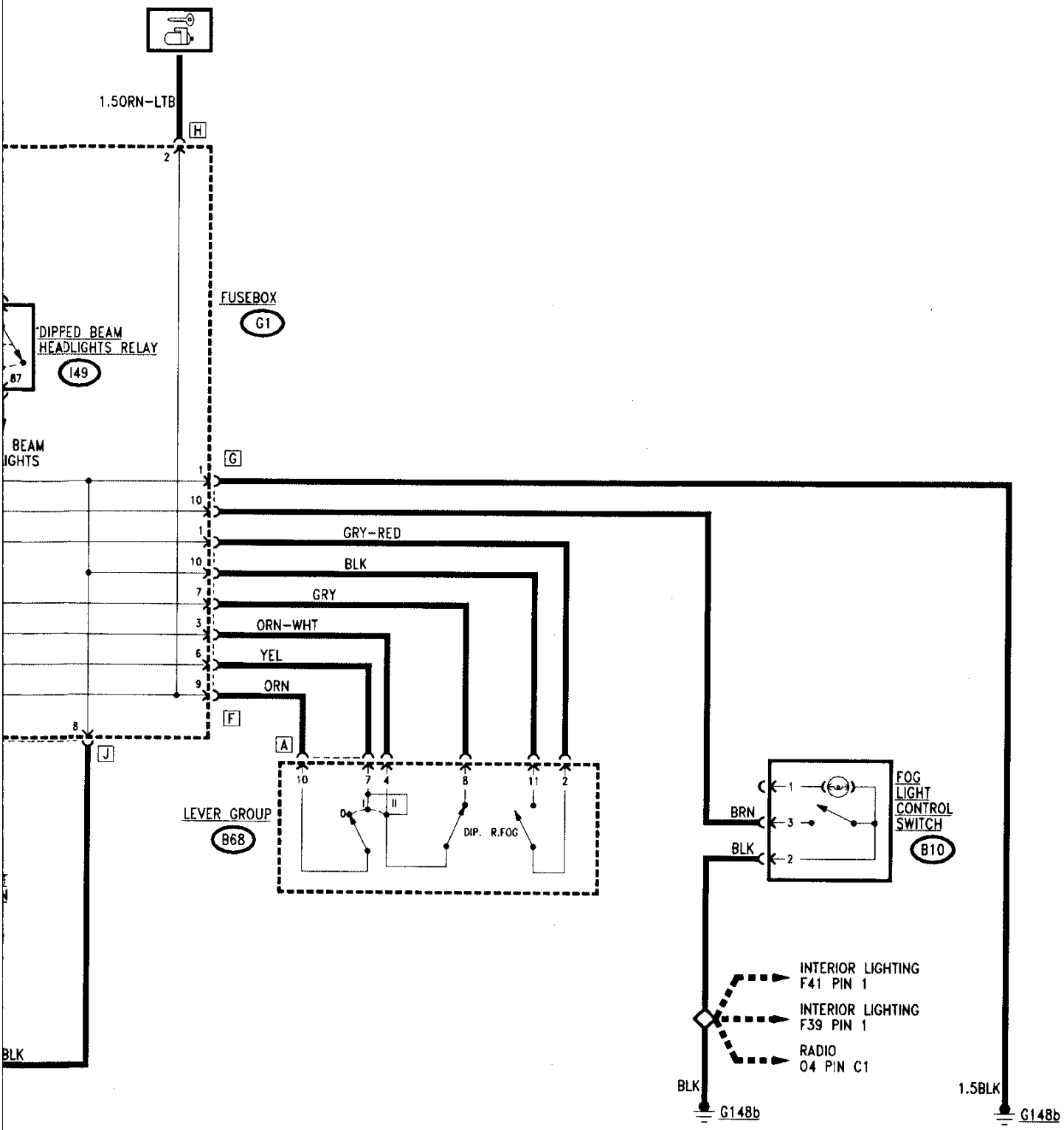
TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C1 CHECK VOLTAGE – With reverse gear engaged, verify 12V between pin 2 and 3 of the rear central light assembly **E31**	OK ➡	Carry out **step C2**
	~~OK~~ ➡	Carry out **step C3**
C2 CHECK BULB – Check for damage of reversing light bulb in light assembly **E31** (inner lamp, with white transparency)	OK ➡	Check and if necessary replace the complete light assembly **E31**
	~~OK~~ ➡	Replace bulb
C3 CHECK VOLTAGE – With reverse gear engaged, verify 12V at pin 3 of **E31**	OK ➡	Restore wiring between pin 2 of **E31** and the solder (BLK)
	~~OK~~ ➡	Restore wiring between pin C7 of **G1** and pin 3 of **E31**, across pin A4 of connector **G307** (WHT)

DAY-LIGHT

NDEX

WIRING DIAGRAM




1.50RN-LTB
H
2
FUSEBOX
G1
DIPPED BEAM
HEADLIGHTS RELAY
149
87
BEAM
IGHTS
G
1
10
1
10
7
3
6
9
8
J
F
A
GRY-RED
BLK
GRY
ORN-WHT
YEL
ORN
10 7 4 8 11 2
0 I II
DIP. R.FOG
LEVER GROUP
B68
BRN
BLK
1
3
2
FOG
LIGHT
CONTROL
SWITCH
B10
INTERIOR LIGHTING
F41 PIN 1
INTERIOR LIGHTING
F39 PIN 1
RADIO
04 PIN C1
BLK
G148b
1.5BLK
G148b
BLK

GENERAL DESCRIPTION

Models for some countries may be equipped with a diurnal or **DAY-LIGHT** lighting device.
This device, in compliance with the laws in force in some countries, switches the sidelights on whenever the ignition key is engaged and regulates, following a specific logic, the selection of dipped beam headlights and the rear and front fog lamps:

- with the ignition key at the "RUN" position: the sidelights and dipped beam headlights are switched on;
- sidelights switch rotated to the the first position ("I"): only the sidelights stay on and the front foglamps can be turned on;
- sidelights switch rotated to the second position ("II"): the dipped beam is once again switched on and the foglamps are switched off; it is then possible to switch on the rear foglamps;
- the main beam headlights are switched on in the same way as for other models.

This logic is made possible with the insertion of two relays with special wiring connected to **connector J** in fusebox **G1;**. the day-light exclusion relay **I67** switches on the dipped beam headlights when the ignition switch is at the "RUN" position, and is deactivated when the sidelights switch is at position "I"; the front foglamps consensus relay **I65** supplies the front foglamps line when the switch is at "I", and the rear foglamps line when the switch is at "II".
Apart from these two components, all else remains unchanged in comparison to the other charts valid for the other versions: in this chart only the part relative to the supply is illustrated, up to the relays which activate the various circuits (**I64** - sidelights; **I49** - dipped beam headlights; **I17** - front foglamps; **I25** - rear foglamps).
It is therefore necessary to refer to the relative sections for greater detail regarding the circuits in question.

FUNCTIONAL DESCRIPTION

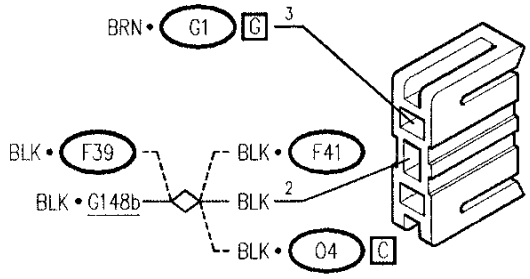
The sidelights circuit is directly connected to the key-operated supply as pins 6 and 7 of **connector J** in the fusebox **G1** are bridged in order to excite the sidelights relay **I64** (see "Sidelights").
This supply also reaches pin 87a of the day-light exclusion relay **I67**: when the relay is not excited (lever group switch **B68** in the rest position), the key operated supply excites the relay **I49** and supplies the dipped beam headlight circuit (see "Main and Dipped Beam Headlights").
Rotating switch **B68** to position "I" -pin A7-, the relay **I67**, -pin 85- is excited which then excludes the supply to the dipped beam headlights; at the same time the supply crosses the front foglamps consensus relay **I65** -pin 87a and 30- and supplies the front foglamps relay **I17**: in this way the front foglamps switch **B10** is activated and it is possible to switch them on (see "Rear and Front Foglamps").
Rotating switch **B68** still further to position "II" -pin A4- the relay **I65** is excited -pin 85-, which interrupts the supply to the front foglamps circuit -pin 87a- and deviates it towards relay **I25** and the rear foglamps circuit -pin 87-, which can then be activated via the switch on the lever group **B68** (see "Rear and Front Foglamps").

TROUBLESHOOTING TABLE

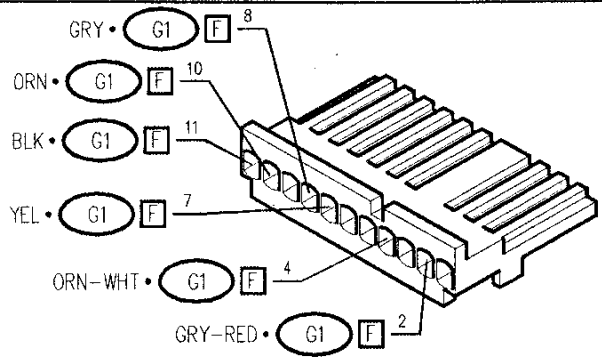
Malfunction	Component		Test
	(167)	(165)	
With ignition key engaged the sidelights and dipped headlights cannot be engaged	•		A
The front foglamps together with the sidelights cannot be engaged		•	B
The rear foglamps together with the dipped beam headlights cannot be engaged		•	C

COMPONENTS AND CONNECTORS

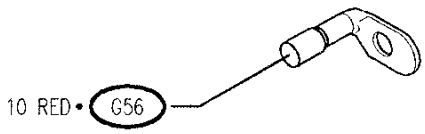
Fog light control switch	B10



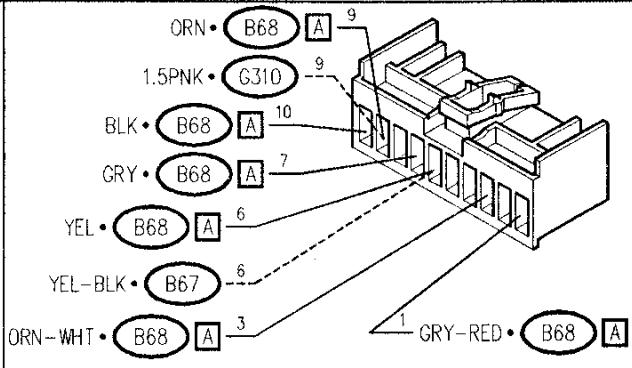
Lever group	B68 A



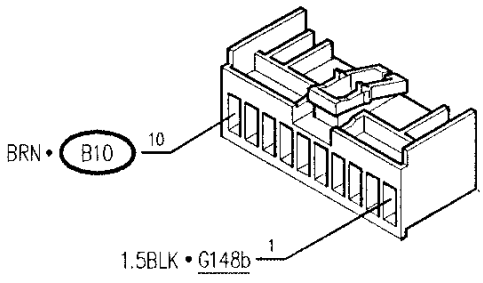
Fusebox	G1



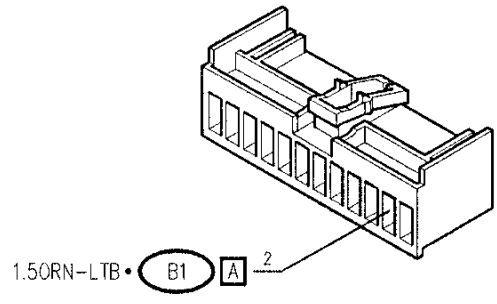
Fusebox	G1 F



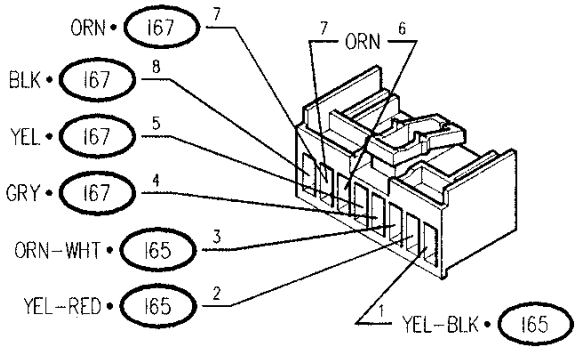
Fusebox	G1 G



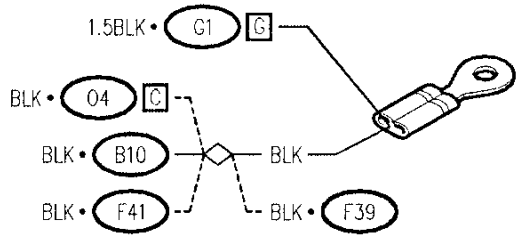
Fusebox	G1 H



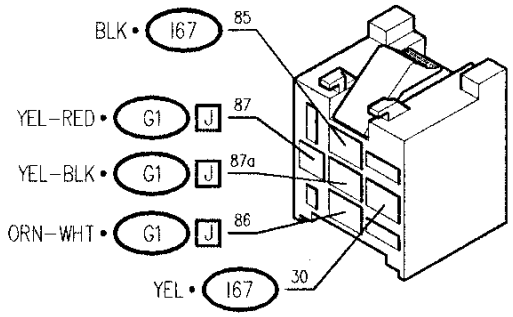
Fusebox	G1 J

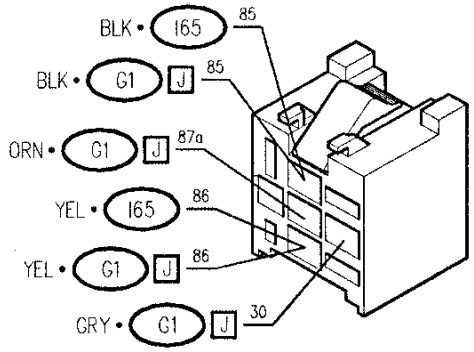


Under-dashboard ground-left side	G148b

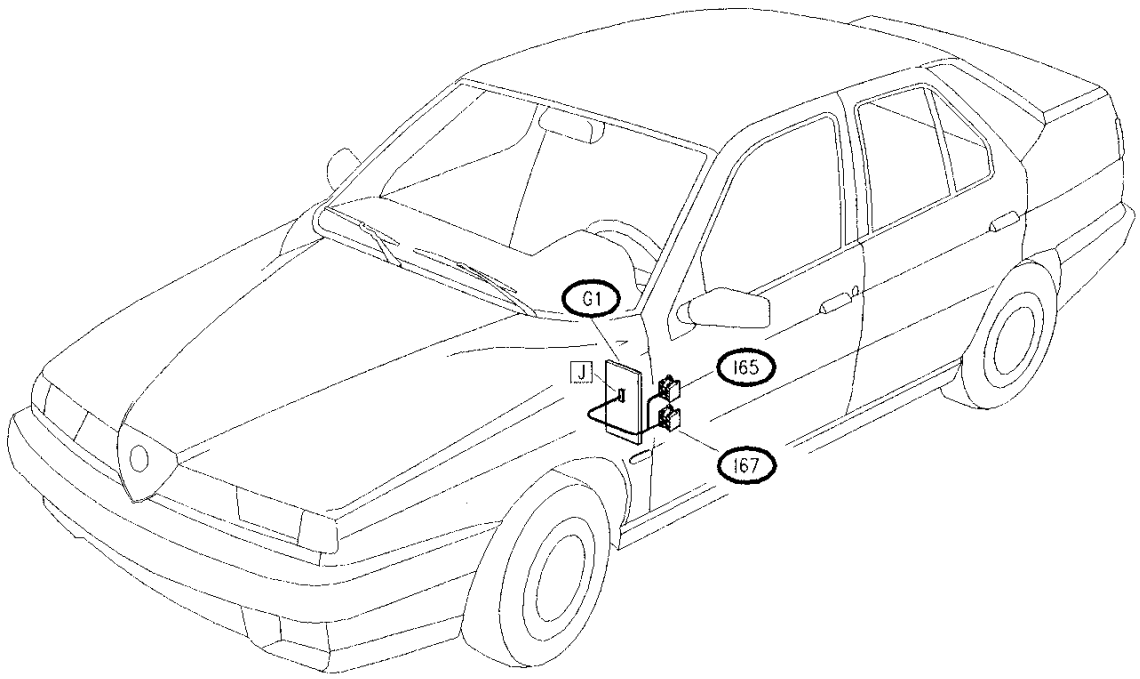


Fog-light consensus relay	I65	Day-light exclusion relay	I67





LOCATION OF COMPONENTS



TROUBLESHOOTING

WITH IGNITION KEY ENGAGED THE SIDELIGHTS DO NOT COME ON (or the dipped beam headlights do not go out when the light switch is at position "I")	TEST A

NOTE: sidelights and dipped beam headlights function normally when the lever group **B68** is rotated. If this is not the case refer to the troubleshooting of the relative sections "Sidelights" and "Main and Dipped Beam Headlights".

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
A1	CHECK RELAY		
– Check for correct functioning of day-light exclusion relay **I67**		OK ➡	Carry out **step A2**
		~~OK~~ ➡	Replace relay **I67**
A2	CHECK VOLTAGE		
– Rotate the ignition key and verify 12V at pin J6 of **G1**		OK ➡	Carry out **step A3**
		~~OK~~ ➡	Restore wiring between pins J6 and J7 of **G1** (ORN)
A3	CHECK VOLTAGE		
– Rotate the ignition key and verify 12V at pin 87a of relay **I67**		OK ➡	Carry out **step A4**
		~~OK~~ ➡	Restore wiring between pin J7 of **G1** and pin 87a of **I67** (ORN)

(continues)

WITH IGNITION KEY ENGAGED THE SIDELIGHTS DO NOT COME ON (or the dipped beam headlights do not go out when the light switch is at position "I")	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A4 CHECK VOLTAGE – Rotate the ignition key and using lever group **B68**, switch the lights to position "I": verify 12V at pin 86 of **I67**	OK ➡	Carry out **step A5**
	OK ➡	Restore wiring between pins 86 of **I67** and pin J5 of **G1** (YEL)
A5 CHECK VOLTAGE – Rotate the ignition key and verify 12V at pin J4 of **G1**; switching lever group **B68** to position "I", check that the circuit opens	OK ➡	Restore wiring between pin 85 of **I67** and pin J8 of **G1** (BLK)
	OK ➡	Restore wiring between pins 30 of **I67** and pin J4 of **G1** (GRY)

THE FRONT FOGLAMPS DO NOT COME ON	TEST B

Note: if only one front foglamp comes on, refer to the relative test in the section "Rear and Front Foglamps"

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK FUSE – Check for damage of fuse **F19** of fusebox **G1**	OK ➡	Carry out **step B2**
	~~OK~~ ➡	Replace fuse (20A)
B2 CHECK RELAY – Check for correct functioning of front foglamps relay **I17**, located in **G1**	OK ➡	Carry out **step B3**
	~~OK~~ ➡	Replace relay **I17**
B3 CHECK RELAY – Check for correct functioning of front foglamps consensus relay **I65**	OK ➡	Carry out **step B4**
	~~OK~~ ➡	Replace relay **I65**
B4 CHECK VOLTAGE – Rotate the ignition key and verify 12V at pin A10 of lever group **B68**	OK ➡	Carry out **step B5**
	~~OK~~ ➡	Restore wiring between pin F9 of **G1** and pin A10 of lever group **B68** (ORN)

(continues)

THE FRONT FOGLAMPS DO NOT COME ON	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B5 CHECK VOLTAGE – With ignition key rotated and and lights switched to position "I", verify 12V at pin F6 of **G1**	OK ➡	Carry out **step B6**
	~~OK~~ ➡	Restore wiring between pin F6 of **G1** and pin A7 of lever group **B68** (YEL)
B6 CHECK VOLTAGE – With ignition key rotated and and lights switched to position "I", verify 12V at pin 30 of **I65**	OK ➡	Carry out **step B7**
	~~OK~~ ➡	Restore wiring between pin 30 of **I65** and pin J5 of **G1**, across pin 86 of **I67** (YEL)
B7 CHECK VOLTAGE – With ignition key rotated and and lights switched to position "I", verify 12V at pin J1 of **G1**	OK ➡	Carry out **step B8**
	~~OK~~ ➡	Restore wiring between pin J1 of **G1** and pin 87a of **I65** (YEL-BLK)

(continues)

THE FRONT FOGLAMPS DO NOT COME ON	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B8 CHECK GROUND – Verify 0V at pin 2 of front foglamps switch **B10**	OK ➡	Carry out **step B9**
	OK ➡	Restore wiring between pin 2 of **B10** and ground **G148b**, also across the solder (BLK)
B9 CHECK SWITCH – Check for correct functioning of front foglamps switch **B10**: • selecting the front foglamps function, check continuity between pins 2 and 3 of **B10**	OK ➡	Restore wiring between pin G10 of **G1** and pin of **B68** (BRN)
	OK ➡	Replace switch **B10**

REAR FOGLAMPS DO NOT COME ON	TEST C

Note: if only one of the rear foglamps is working, refer to the relative test in the section "Rear and Front Foglamps"

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
C1	CHECK FUSE		
– Check for damage of fuse **F11** in fusebox **G1**		OK ➡	Carry out **step C2**
		~~OK~~ ➡	Replace fuse (7.5A)
C2	CHECK RELAY		
– Check for correct functioning of rear foglamps relay **I25**, located in **G1**		OK ➡	Carry out **step C3**
		~~OK~~ ➡	Replace relay **I25**
C3	CHECK RELAY		
– Check for correct functioning of foglamps consensus relay **I65**		OK ➡	Carry out **step C4**
		~~OK~~ ➡	Replace relay **I65**
C4	CHECK VOLTAGE		
– Rotate the ignition key and verify 12V at pin A10 of lever group **B68**		OK ➡	Carry out **step C5**
		~~OK~~ ➡	Restore wiring between pin F9 of **G1** and pin A10 of lever group **B68** (ORN)

(continues)

REAR FOGLAMPS DO NOT COME ON	TEST C

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C5 CHECK VOLTAGE – With ignition key rotated and lights switched to position "II", verify 12V at pin F3 of **G1**	OK ➡	Carry out **step C6**
	OK ➡	Restore wiring between pin F3 of **G1** and pin A4 of lever group **B68** (ORN-WHT)
C6 CHECK VOLTAGE – With ignition key rotated and lights switched to position "II", verify 12V at pin 86 of **I65**	OK ➡	Carry out **step C7**
	OK ➡	Restore wiring between pin J3 of **G1** and pin 86 of **I65** (ORN-WHT)
C7 CHECK VOLTAGE – With ignition key rotated and lights switched to position "II", verify 12V at pin 30 of **I65**	OK ➡	Carry out **step C8**
	OK ➡	Restore wiring between pin 30 of **I65** and pin J5 of **G1**, across pin 86 of **I67** (YEL)
C8 CHECK VOLTAGE – With ignition key rotated and lights switched to position "II", verify 12V at pin J2 of **G1**	OK ➡	Carry out **step C9**
	OK ➡	Restore wiring between pin J2 of **G1** and pin 87 of **I65** (YEL-RED)

(continues)

REAR FOGLAMPS DO NOT COME ON	TEST C

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C9 CHECK LEVER GROUP – Check for correct functioning of lever group: • selecting the rear foglamps function, verify continuity between pin A2 and A11 of lever group **B68**	OK ➡	Carry out step **C10**
	~~OK~~ ➡	Replace lever group **B68**, left-hand part
C10 CHECK GROUND – With rear foglamps on, verify 0V at pin F1 of **G1**	OK ➡	Restore wiring between pin F10 of **G1** and pin A11 of **B68** (BLK)
	~~OK~~ ➡	Restore wiring between pin F1 of **G1** and pin A2 of **B68** (GRY-RED)

INTERIOR LIGHTING

INDEX

GENERAL DESCRIPTION

The numerous light sources permit easy identification of the controls and switches and, when necessary, suitable lighting of the passenger compartment and/or specific points.

The wiring diagram relating to interior lighting has been divided into three parts; the first part includes the illumination of the ideograms on the controls and switches activated when the sidelights are switched on. The second includes courtesy lights and light points switched on and off by the timer when the doors are opened or closed.

A third specific diagram is dedicated to the dashboard lighting as this can be regulated using the rheostat.

Illumination of controls and ideograms:

When the sidelights are on, the ideorams located on the lever group are illuminated as are those on the vehicle's numerous air vents.

The heater conrols or the automatic air-conditioner control panel are also illuminated. (see "Air conditioning - control unit: supply and diagnosis")

The specific diagrams also illustrate the illumination of the ideograms on the check panel display, and illumination of the ashtray, seat adjustment, fog-light switch and controls for the controlled suspension.

A specific light comes on when the glovebox is opened (see "Boot release control").

Courtesy lights:

A timing device **N10** turns the front central courtesy light **F35**, the rear courtesy light **F3** and the lights on the ignition block on or off when the doors are opened or closed. This device operates as follows:

- When any door is opened the lights come on and remain on for between 100 and 200 seconds or until the door is closed;
- when the doors have been closed the lights remain on for approximately 15 seconds and then switch themselves off.

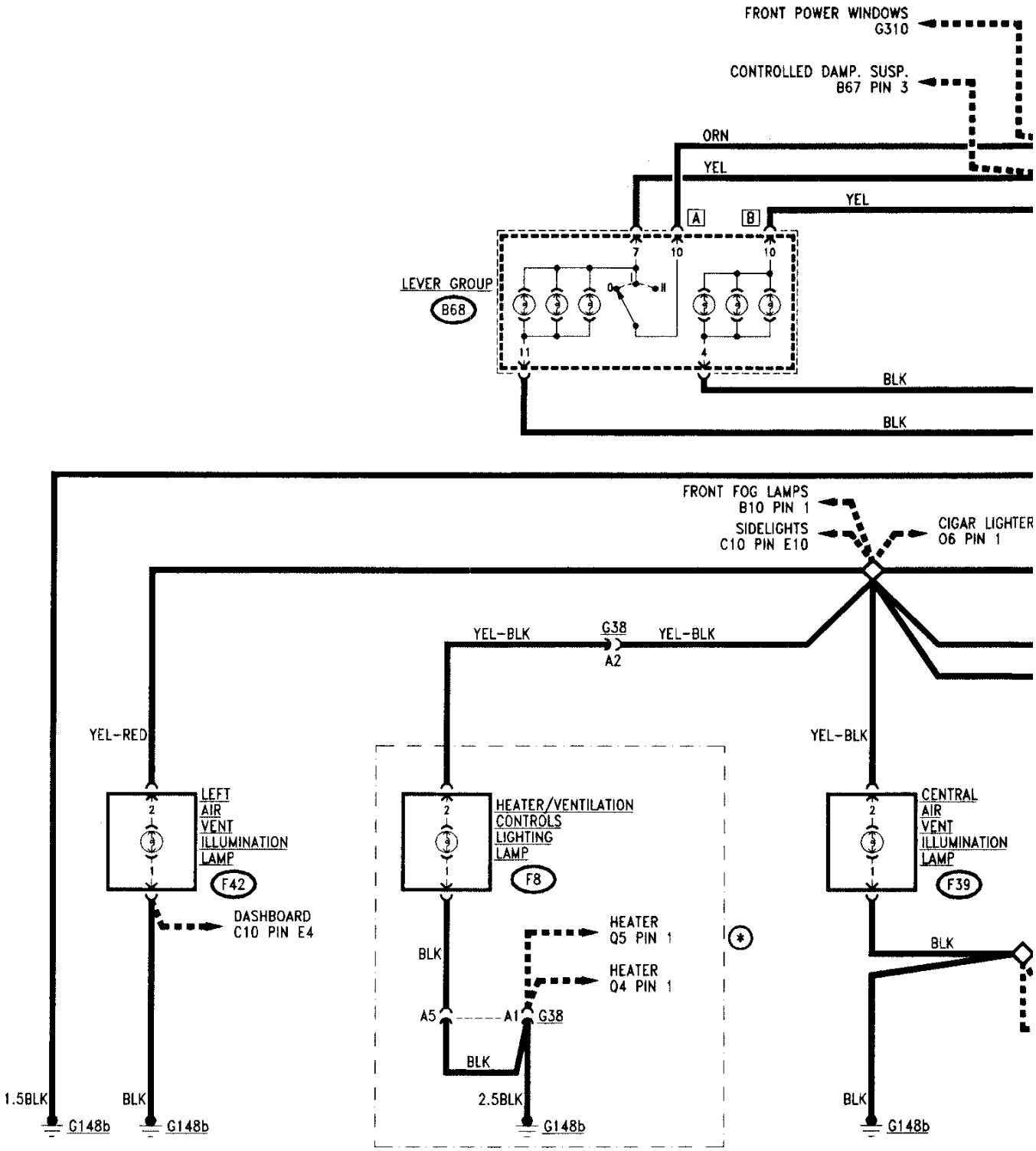
The two courtesy lights can obviously be turned on manually by acting on the switch.

On the front courtesy light there is also a spot-light, powered directly by the battery, which enables a passenger, for example, to read without disturbing the driver.

A special courtesy light **F5** illuminates the luggage compartment and comes on when the boot lid is opened.

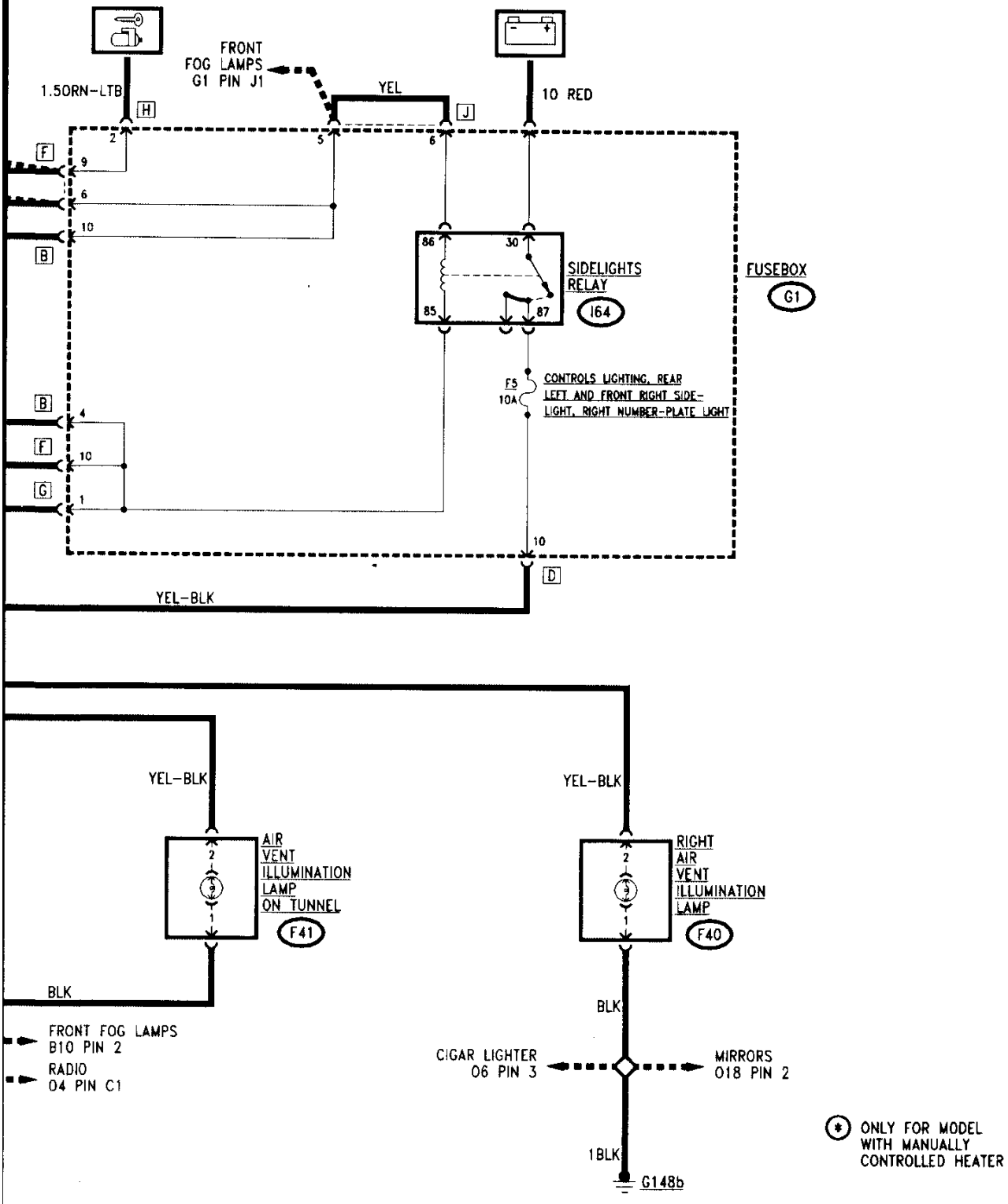
Instrument panel lighting:

The instrument panel **C10** is illuminated by way of a rheostat **B16**, which permits the lighting intensity to be regulated.


FRONT POWER WINDOWS
G310
CONTROLLED DAMP. SUSP.
B67 PIN 3
ORN
YEL
YEL
A
B
LEVER GROUP
B68
BLK
BLK
FRONT FOG LAMPS
B10 PIN 1
SIDELIGHTS
C10 PIN E10
CIGAR LIGHTER
O6 PIN 1
YEL-BLK
G38
A2
YEL-BLK
YEL-RED
YEL-BLK
LEFT
AIR
VENT
ILLUMINATION
LAMP
F42
DASHBOARD
C10 PIN E4
HEATER/VENTILATION
CONTROLS
LIGHTING
LAMP
F8
HEATER
Q5 PIN 1
HEATER
Q4 PIN 1
BLK
A5
A1
G38
BLK
CENTRAL
AIR
VENT
ILLUMINATION
LAMP
F39
BLK
1.5BLK
BLK
2.5BLK
BLK
G148b
G148b
G148b
G148b

LLUMINATION OF CONTROLS AND IDEOGRAMS

Viring Diagram



1.5BL

Functional Description

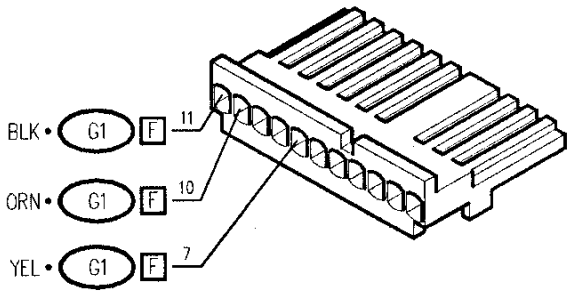
The lever group ideograms **B68** are illuminated when the sidelights are switched on: those on the left are activated directly by the light switch itself, while those on the right by a supply returning from the fusebox **G1**.

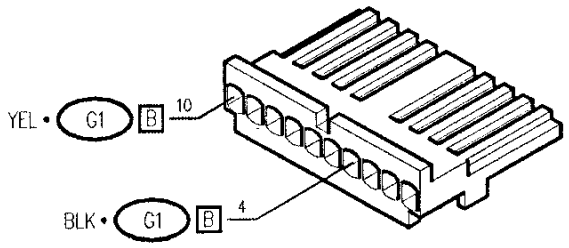
The ideograms on the left **F42**, central **F39** and right **F40** air vents along with the one on the tunnel **F41** (for the rear seats) are illuminated by way of the sidelights relay **I64** and fuse (10 A).

The line also supplies the heater controls **F8** or the air-conditioner (see "Air-conditioning - control unit: supply and diagnosis").

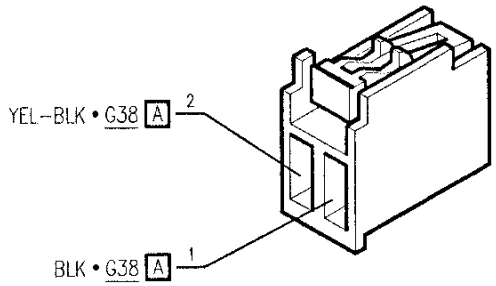
Components and Connectors

Lever group	B68 A	Lever group	B68 B

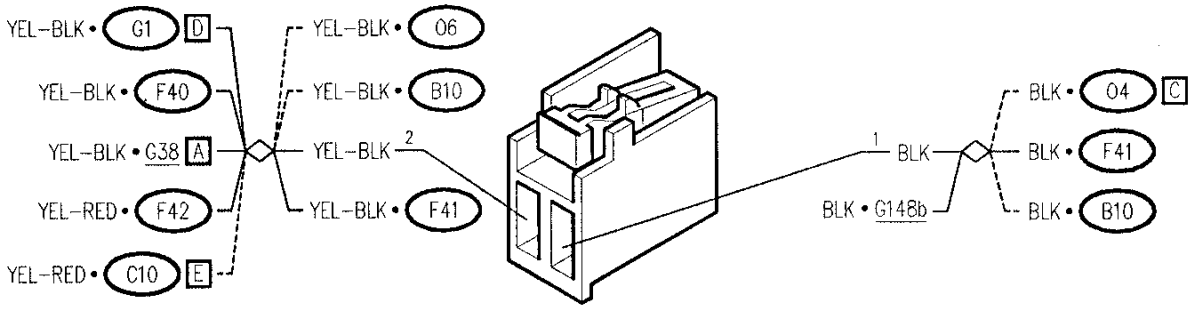




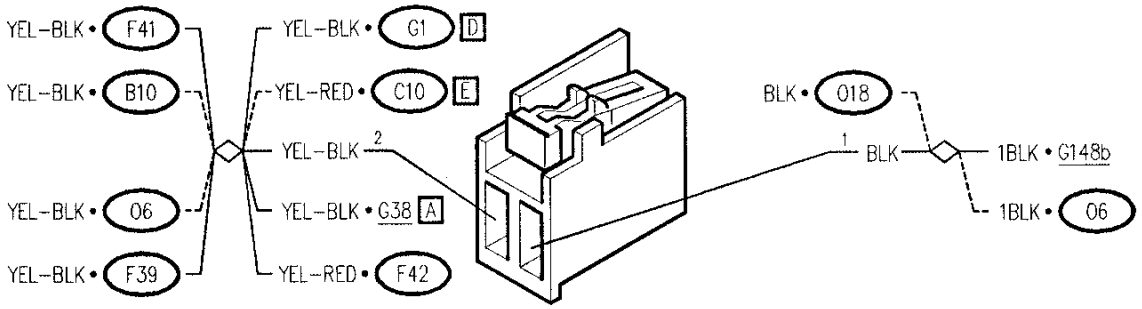
Heater/ventilation controls lighting lamp	F8



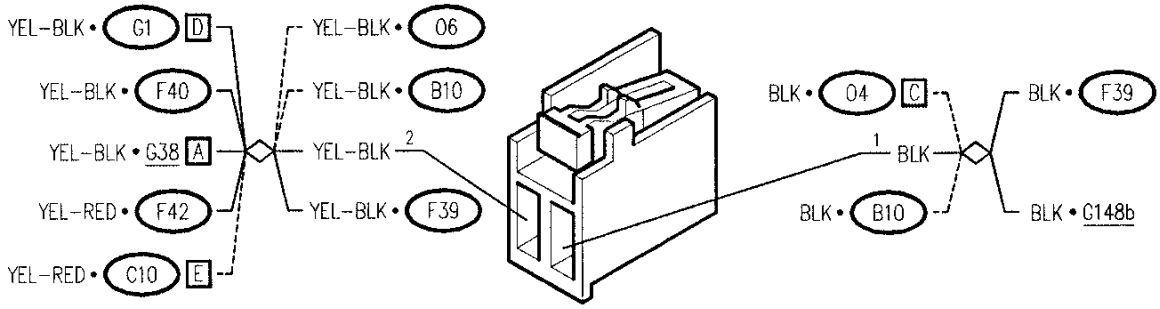
Central air vent illumination lamp	F39



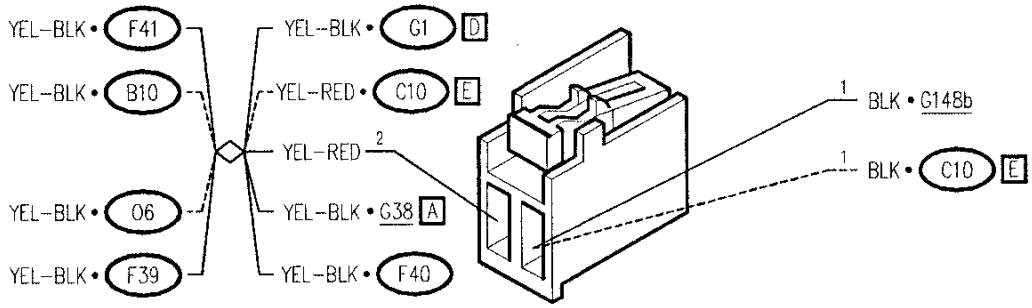
Right air vent illumination lamp	F40



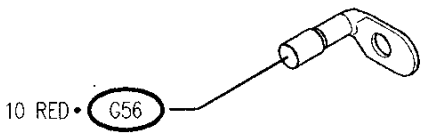
Air vent illumination lamp on tunnel — F41



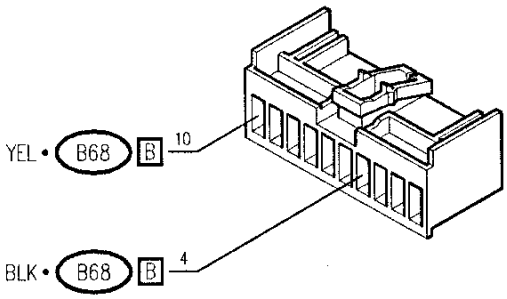
Left air vent illumination lamp — F42



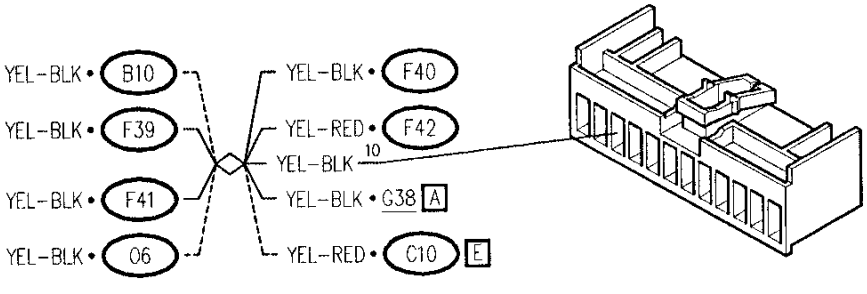
Fusebox — G1



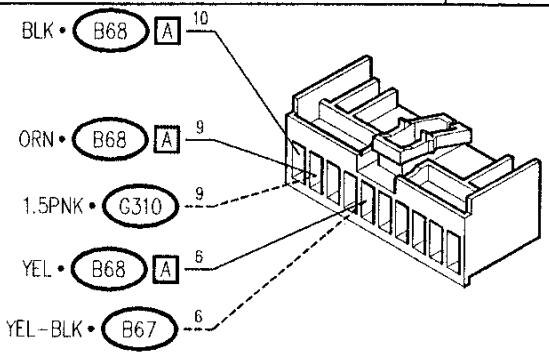
Fusebox — G1 B



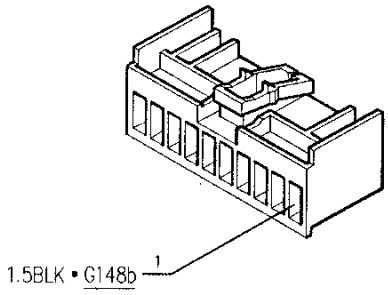
Fusebox — G1 D



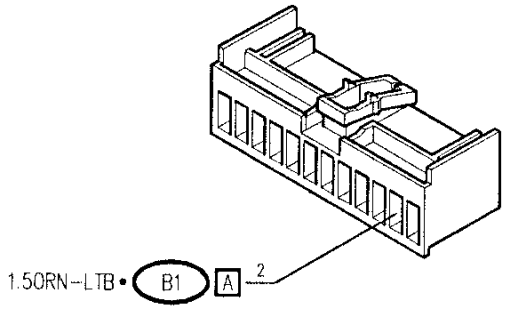
Fusebox G1 F



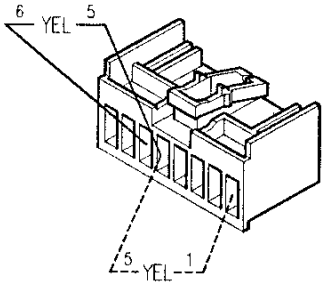
Fusebox G1 G



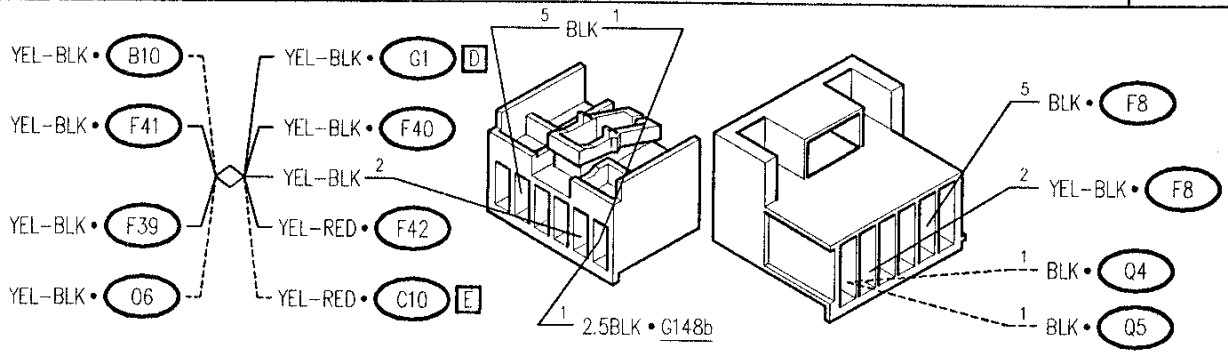
Fusebox G1 H



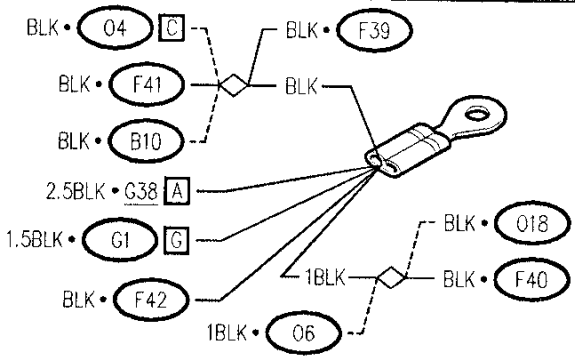
Fusebox G1 J

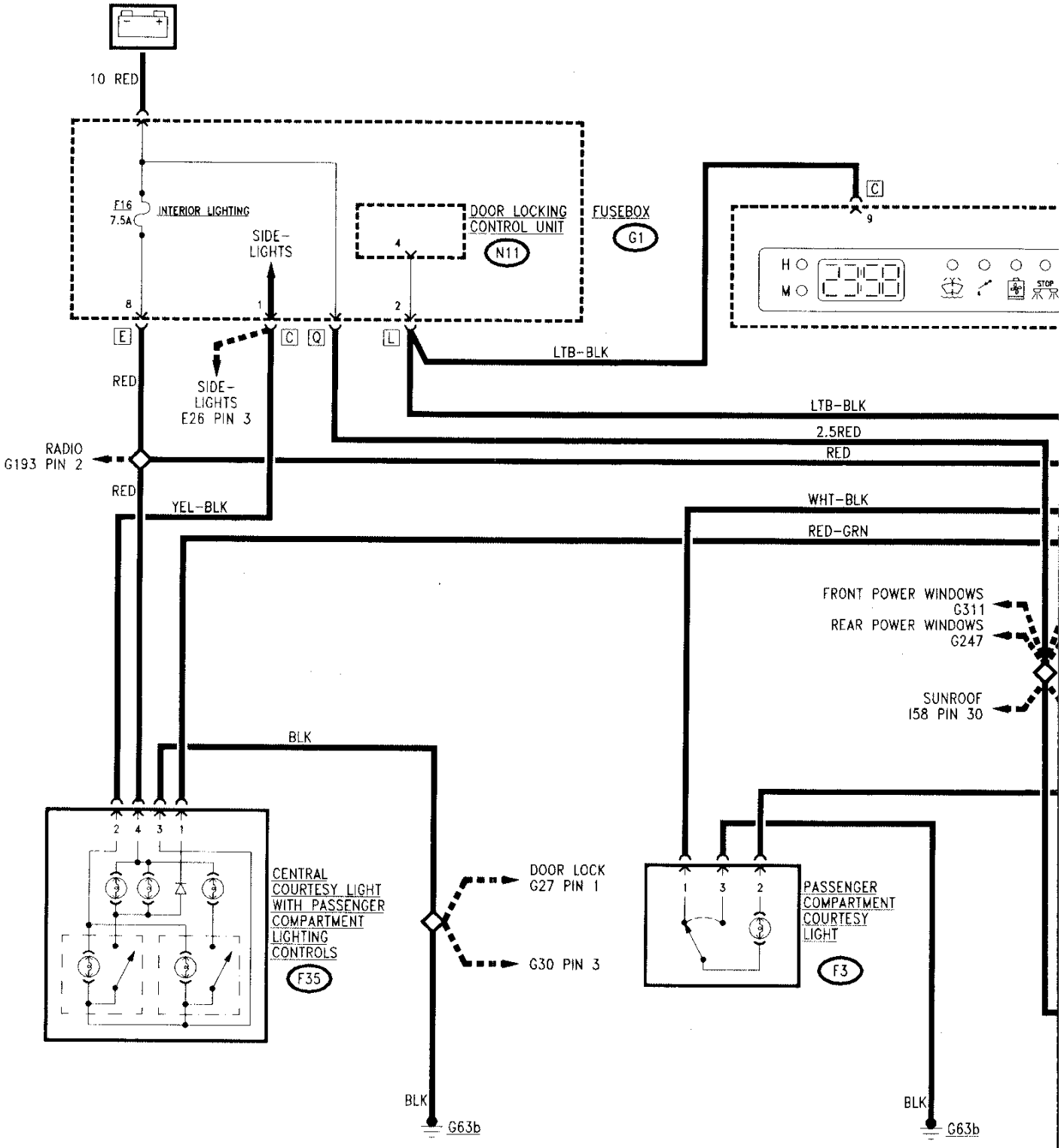


Connector for air conditioner wiring G38 A



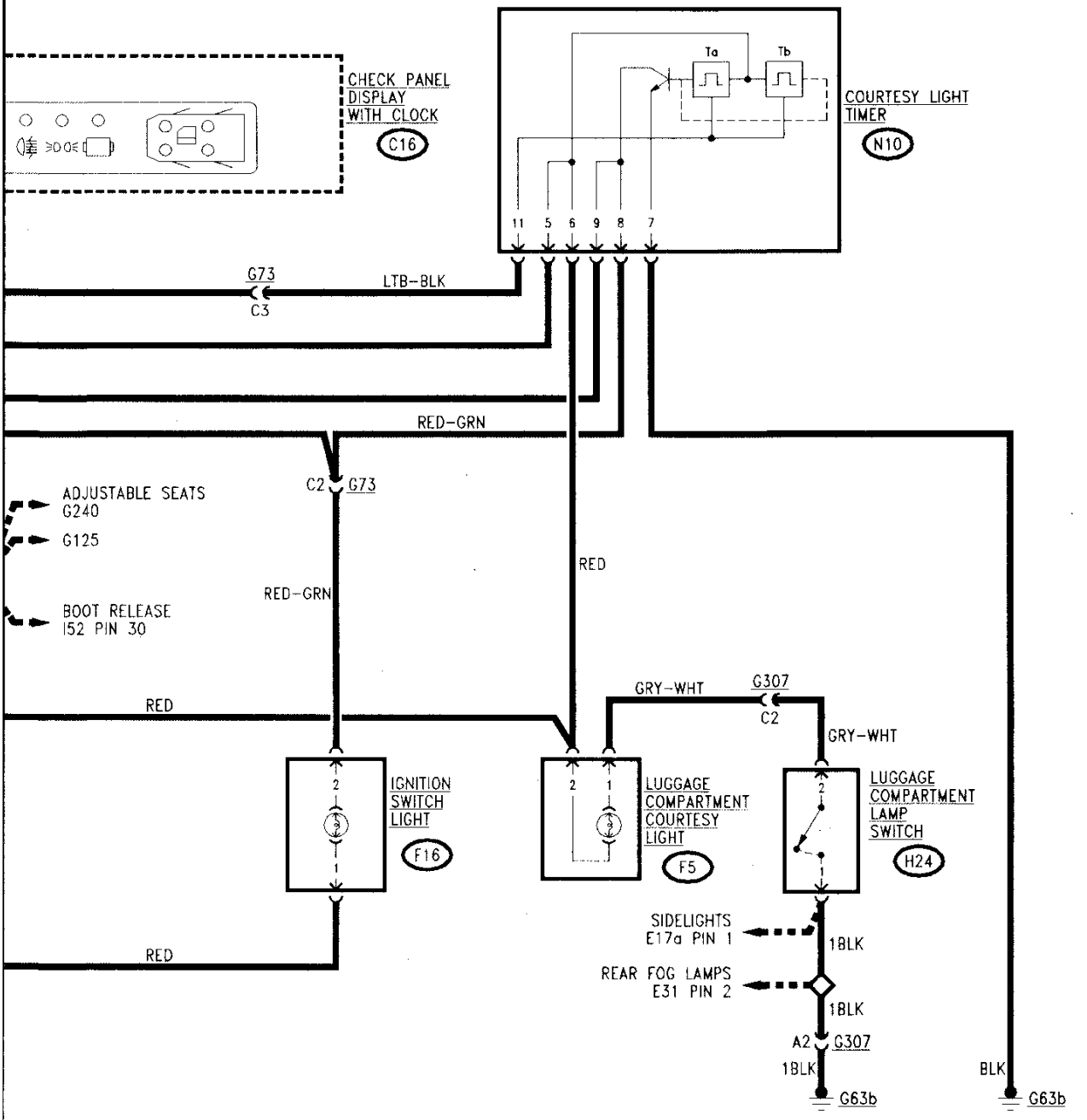
Under-dashboard ground-left side G148b




10 RED
F16
7.5A
INTERIOR LIGHTING
SIDE-
LIGHTS
DOOR LOCKING
CONTROL UNIT
N11
FUSEBOX
G1
8
1
4
2
E
C
Q
L
C
9
H
M
STOP
LTB-BLK
RED
SIDE-
LIGHTS
E26 PIN 3
LTB-BLK
2.5RED
RED
RADIO
G193 PIN 2
RED
YEL-BLK
WHT-BLK
RED-GRN
FRONT POWER WINDOWS
G311
REAR POWER WINDOWS
G247
SUNROOF
I58 PIN 30
BLK
2 4 3 1
CENTRAL
COURTESY LIGHT
WITH PASSENGER
COMPARTMENT
LIGHTING
CONTROLS
F35
DOOR LOCK
G27 PIN 1
G30 PIN 3
1 3 2
PASSENGER
COMPARTMENT
COURTESY
LIGHT
F3
BLK
G63b
BLK
G63b

COURTESY LIGHTS

Wiring Diagram



Functional Description

Passenger compartment courtesy light

The courtesy light with passenger compartment lighting controls (reading light) **F35** is supplied directly by the battery, routed through fuse **F16** (7.5A) of the fusebox **G1**: this permits the reading light or courtesy light to be illuminated by acting on the relevant switch.

When the sidelights are on, **F35** receives another supply which lights up the ideograms on the controls.

The passenger compartment courtesy light **F3** also receives supply direct from the battery and once again is routed through fuse **F16** (7.5A)

Timer controlled courtesy light:

The courtesy light electronic timer device **N10** controls illumination of the courtesy lights **F35** and **F3** and of the lamp illuminating the ignition switch **F16**.

Battery voltage is supplied through fuse **F16** (7.5A) in the fusebox **G1** to the Ta and Tb devices of **N10**. Pin 11 of the device receives the "door open" signal from the Check Panel **C16** when any door is opened (this signal is the same as that which prevents locking/unlocking of the doors - see "Door locking system").

The Ta timer sends a ground signal through pins 8 and 9, to the timer controlled lamps, and illuminates them for 100 to 200 seconds from the moment the door is opened.

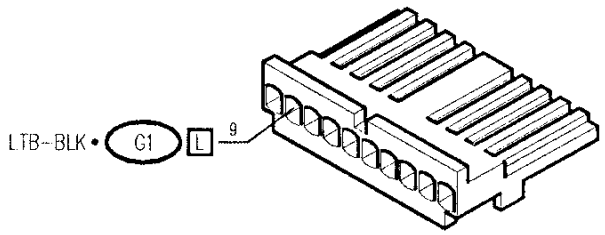
When the "door open" signal is interrupted, the Tb timer sends the same negative signal and illuminates the lights for a further 15 seconds approximately.

Luggage compartment lighting:

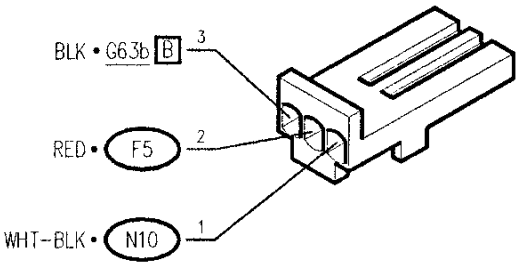
The luggage compartment courtesy light **F5** is also illuminated by battery voltage routed through the line protected by fuse **F16** (7.5A); it comes on when the boot lid is opened and switch **H24** sends a ground signal.

Components and Connectors

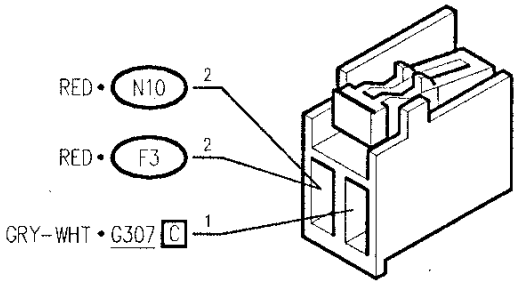
Check panel display with clock (C16) C



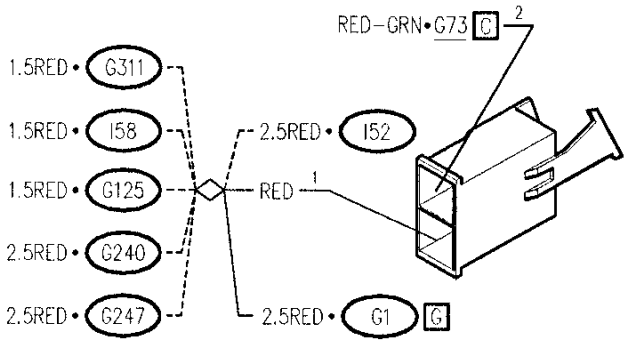
Passenger compartment courtesy light F3



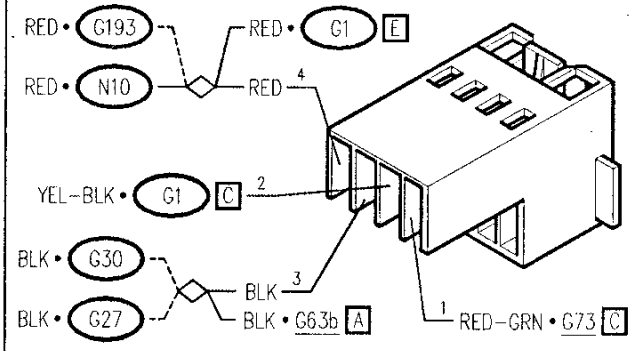
Luggage compartment courtesy light F5



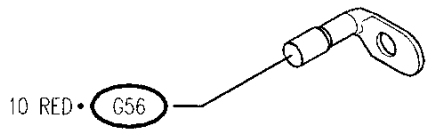
Ignition switch light F16



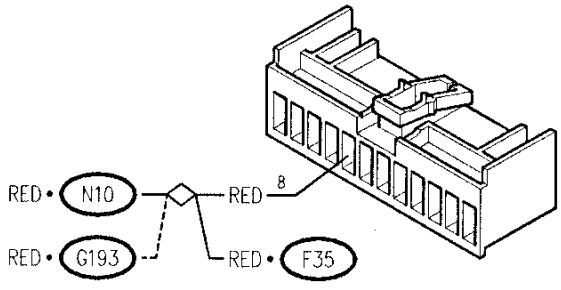
Central courtesy light with passenger compartment lighting controls F35



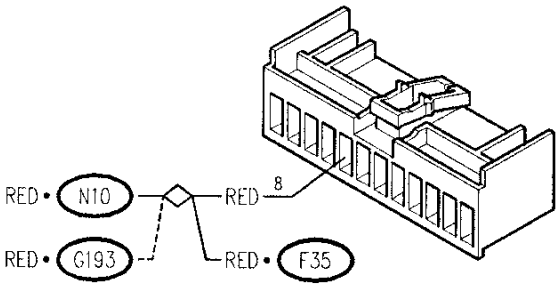
Fusebox G1



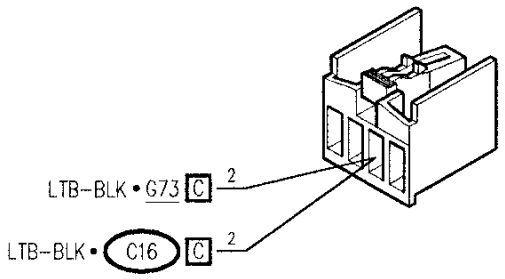
Fusebox G1 C



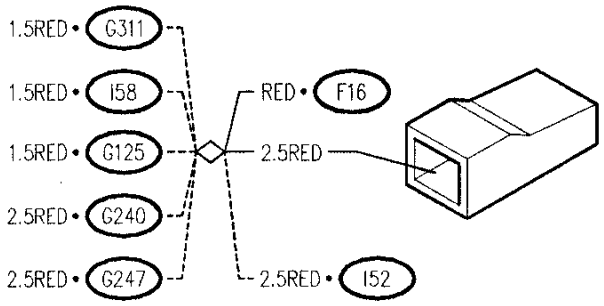
Fusebox G1 E



Fusebox	G1 L

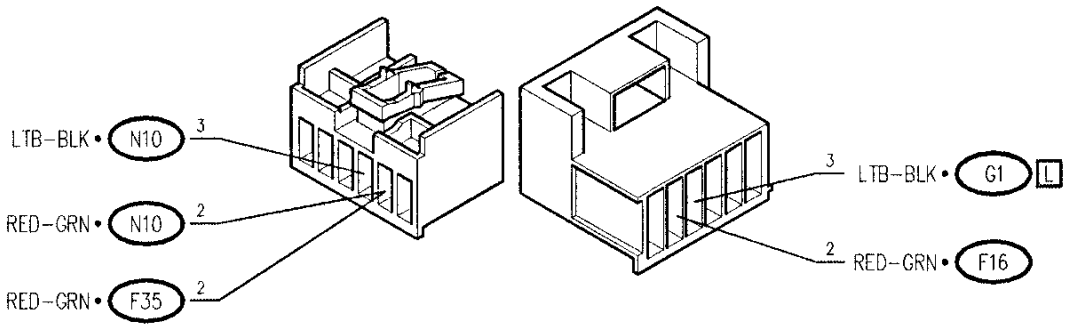


Fusebox	G1 Q

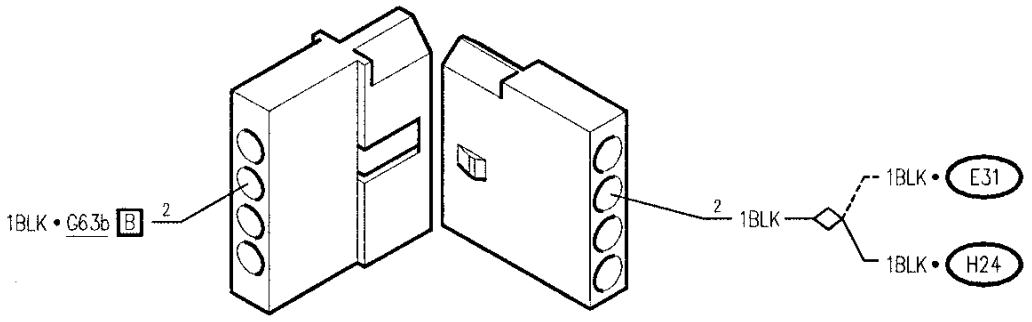


Rear left ground	G63b

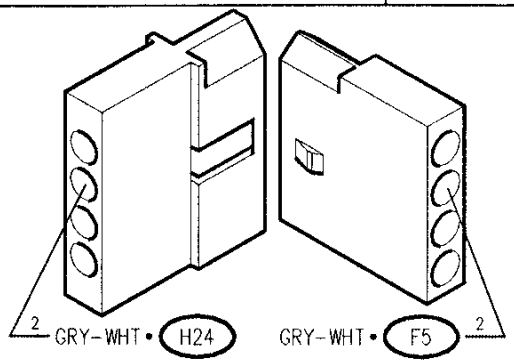
Connector for rear services	G73 C



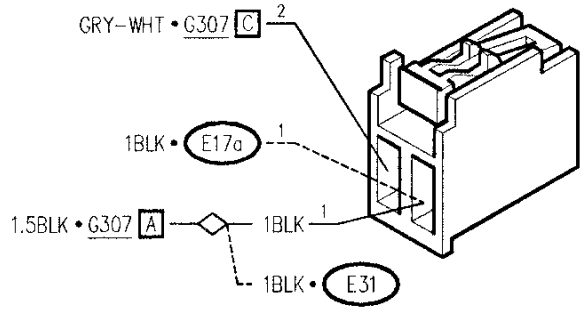
Rear wiring/luggage compartment wiring connection	G307 A



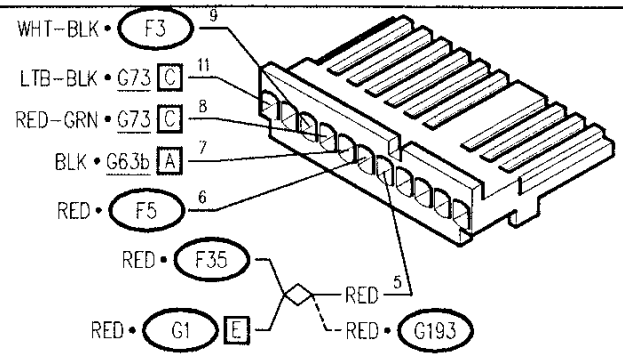
Rear wiring/luggage compartment wiring connection	G307 C



Luggage compartment lamp switch	H24

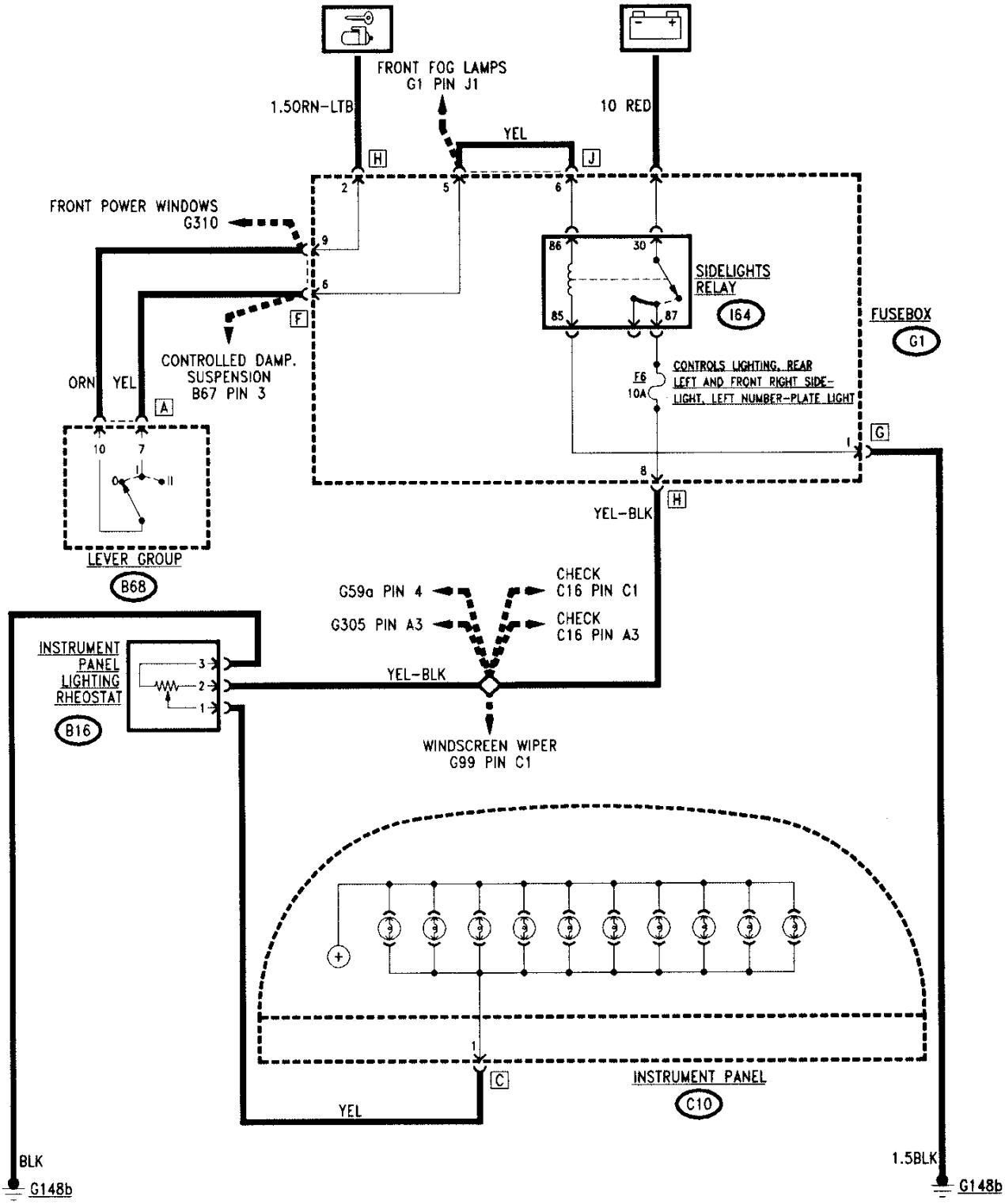


Courtesy light timer	N10



INSTRUMENT PANEL LIGHTING

Wiring Diagram



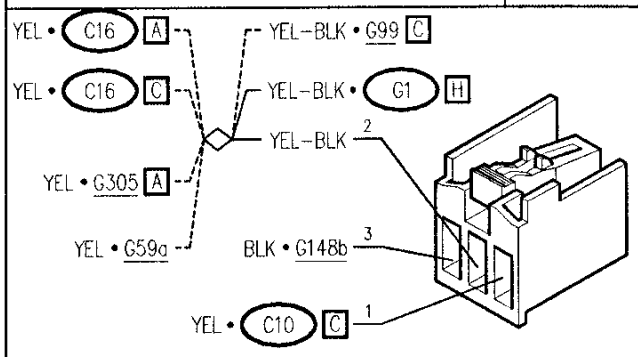
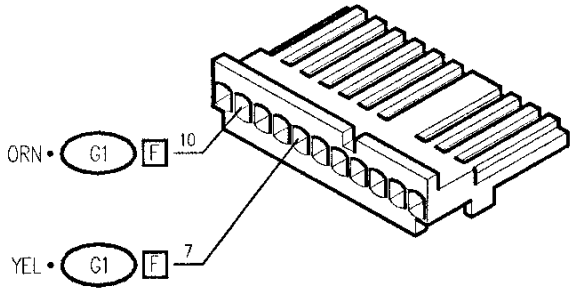
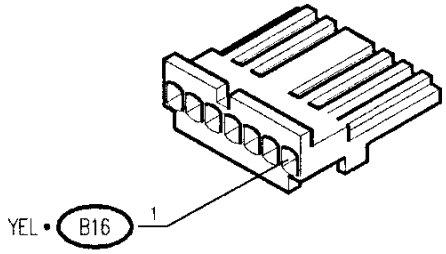
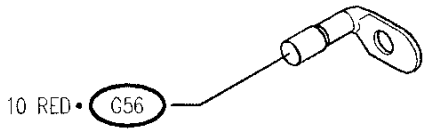
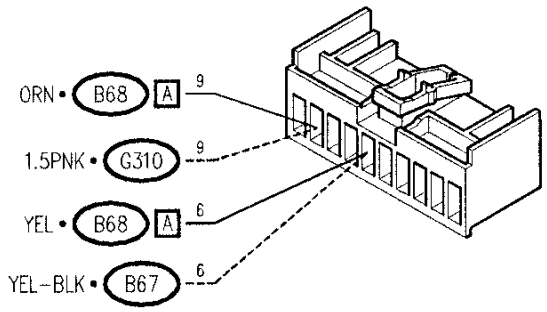
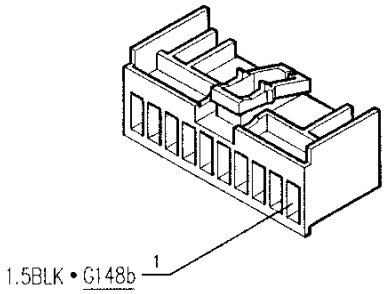
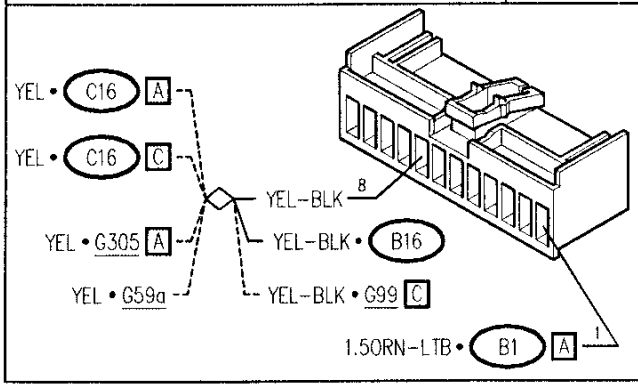
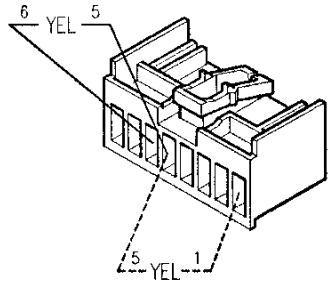
Functional Description

The instrument panel **C10** is illuminated by powering a series of inserted lamps; this supply is routed through a dashboard lighting dimmer rheostat **B16** which permits the lighting intensity to be adjusted to the desired level.

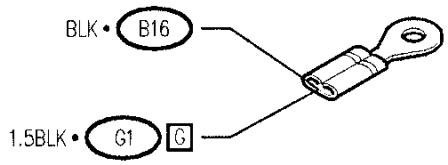
The rheostat **B16** is powered by battery voltage, through relay **I64** and fuse **F6** (10A) of the fusebox **G1**, when the sidelights are switched on using the switch on the lever group **B68**.

Intensity is regulated by the negative signal which reaches the "key-operated" supply instrument panel lamps.

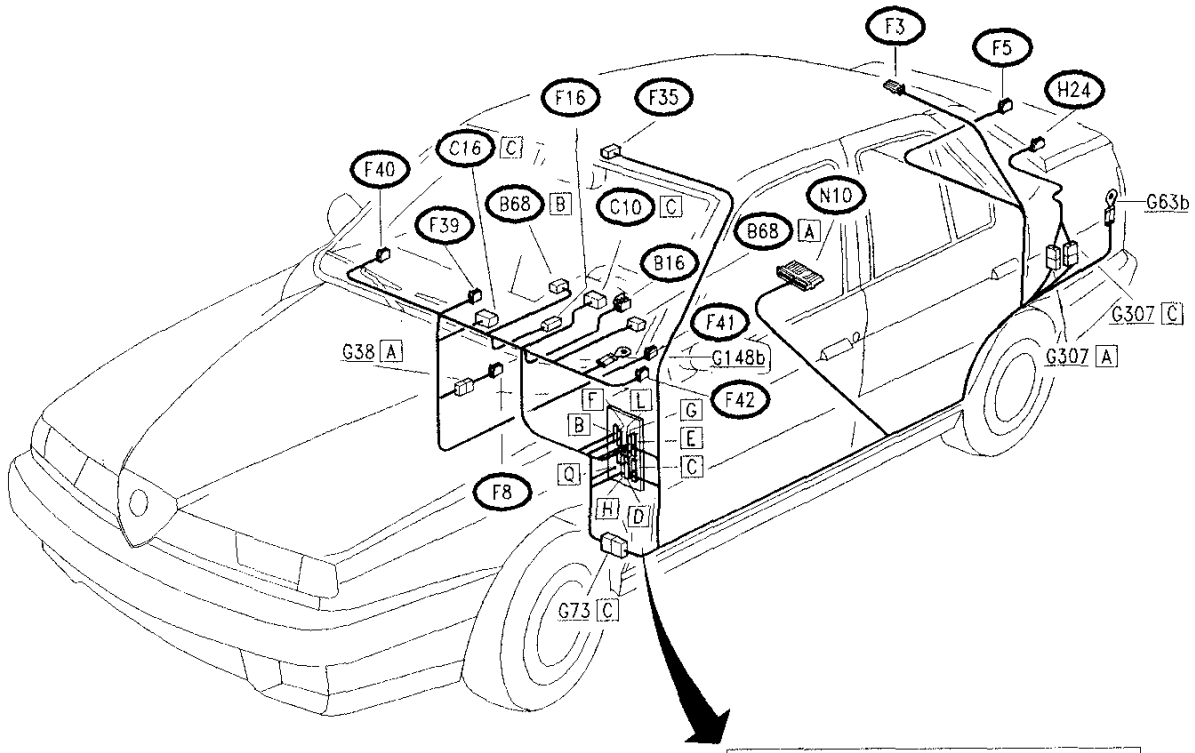
Components and Connectors

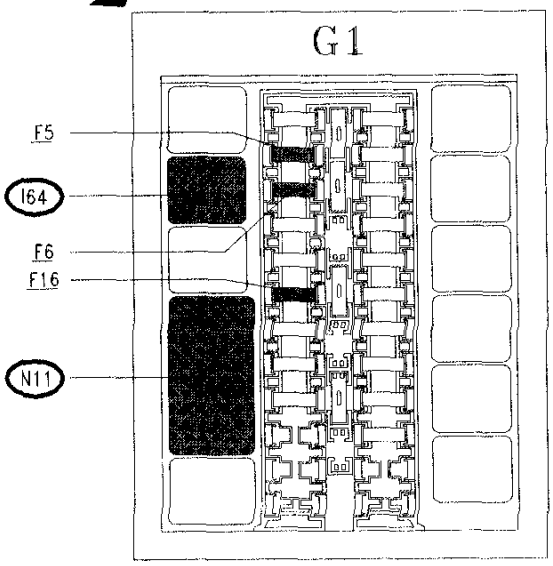
Inst. panel lighting rheostat B16	Lever group B68 A
	
Instrument panel C10 C	**Fusebox G1**
	
Fusebox G1 F	**Fusebox G1 G**
	
Fusebox G1 H	**Fusebox G1 J**
	

Under-dashboard ground-left side	G148b



LOCATION OF COMPONENTS





TROUBLESHOOTING TABLE

Malfunction	Component															
	F42	F40	F39	F41	F8	B68	F16	N10	F35	F3	F16	F5	H24	C10	B16	
LH air vent light	•															A
RH air vent light		•														B
Central air vent light			•													C
Tunnel air vent light				•												D
Heat/vent lights					•											E
Lever group lights						•										F
All timer controlled courtesy lights							•	•								G
Central courtesy light							•	•	•							H
Passenger compartment courtesy light							•	•		•						I
Ignition switch light							•	•			•					J
Luggage compartment light												•	•			K
Inst. panel illumination														•		L
Inst. panel lighting intensity regulation															•	M

TROUBLESHOOTING

LIGHT ILLUMINATING LEFT AIR VENT NOT WORKING	TEST A

NOTE:
When none of the lights illuminating the air vents is working, check fuse **F5** in fusebox **G1** for damage (refer to "Sidelights").

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin 1 and 2 of bulb **F42**	OK ➡	Replace the bulb contained in **F42**
	~~OK~~ ➡	Carry out **step A2**
A2 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V at pin 2 of **F42**	OK ➡	Restore wiring between pin 1 of **F42** and ground **G148b** (BLK)
	~~OK~~ ➡	Restore wiring between pin 2 of **F42** and pin D10 of **G1**, and across the solder (YEL-RED and YEL-BLK)

LIGHT ILLUMINATING RIGHT AIR VENT NOT WORKING	TEST B

NOTE:
When none of the lights illuminating the air vents is working, check fuse **F5** in fusebox **G1** for damage (refer to "Sidelights").

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin 1 and 2 of the bulb **F40**	OK ➡	Replace the bulb contained in **F40**
	~~OK~~ ➡	Carry out **step B2**
B2 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V at pin 2 of **F40**	OK ➡	Restore wiring between pin 1 of **F40** and ground **G148b**, and across the solder (BLK)
	~~OK~~ ➡	Restore wiring between pin 2 of **F40** and pin D10 of **G1**, and across the solder (YEL-BLK)

LIGHT ILLUMINATING CENTRAL AIR VENT NOT WORKING	TEST C

NOTE:
When none of the lights illuminating the air vents is working, check fuse **F5** in fusebox **G1** for damage (refer to "Sidelights").

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
C1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin 1 and 2 of the bulb **F39**	OK ➡	Replace the bulb contained in **F39**
	~~OK~~ ➡	Carry out **step C2**
C2 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V at pin 2 of **F39**	OK ➡	Restore wiring between pin 1 of **F39** and ground **G148b**, and across the solder (BLK)
	~~OK~~ ➡	Restore wiring between pin 2 of **F39** and pin D10 of **G1**, and across the solder (YEL-BLK)

LIGHT ILLUMINATING AIR VENT ON TUNNEL NOT WORKING	TEST D

NOTE:
When none of the lights illuminating the air vents is working, check fuse **F5** in fusebox **G1** for damage (refer to "Sidelights").

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
D1	CHECK VOLTAGE		
– With the ignition switch turned and the sidelights switched on, verify 12V between pin 1 and 2 of bulb **F41**		OK ➡	Replace the bulb contained in **F41**
		~~OK~~ ➡	Carry out step **D2**
D2	CHECK VOLTAGE		
– With the ignition switch turned and the sidelights switched on, verify 12V at pin 2 of **F41**		OK ➡	Restore wiring between pin 1 of **F41** and ground **G148b**, and across the solder (BLK)
		~~OK~~ ➡	Restore wiring between pin 2 of **F41** and pin D10 of **G1**, and across the solder (YEL-BLK)

LIGHTING OF HEATER/VENTILATION SYSTEM CONTROLS NOT WORKING	TEST E

NOTE:
Carry out test only for vehicles equipped with manuallly controlled heater: for vehicles equipped with automatically controlled heater or heating/ventilation system refer to the section "Air conditioning - Control unit: supply and diagnosis".

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
E1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin 1 and 2 of the bulb **F8**	OK ➡	Replace the bulb contained in **F8**
	~~OK~~ ➡	Carry out step **E2**
E2 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V at pin 2 of **F8**	OK ➡	Restore wiring between pin 1 of **F8** and ground **G148b**, across pins A5 and A1 of the connector **G38** (BLK)
	~~OK~~ ➡	Restore wiring between pin 2 of **F8** and pin D10 of **G1**, across pin A2 of the connector **G38** and the solder (YEL- BLK)

LEVER GROUP CONTROL ILLUMINATION NOT WORKING	TEST F

NOTE:
If the sidelight also do not work, first refer to section: "Sidelights".
If some of the lever group controls do not work, first refer to the realtive sections.

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
F1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pins A7 and A11 of the lever group **B68**	OK ➡ ~~OK~~ ➡	Carry out **step F2** Carry out **step F3**
F2 CHECK BULB – Check lever group bulbs **B68** for damage	OK ➡ ~~OK~~ ➡	Carry out **step F4** Replace faulty bulbs
F3 CHECK CONTINUITY – Check continuity between pin A11 of **B68** and pin F10 of **G1**	OK ➡ ~~OK~~ ➡	See section "Sidelights" Restore wiring between pin A8 of **B68** and pin F10 of **G1** (BLK)
F4 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin B4 and B10 of the lever group **B68**	OK ➡ ~~OK~~ ➡	Replace faulty bulbs Carry out **step F5**

(continues)

LEVER GROUP CONTROL ILLUMINATION NOT WORKING	TEST F

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
F5	CHECK VOLTAGE		
– With the ignition switch turned and the sidelights switched on, verify 12V at pin B10 of lever group **B68**		OK ➡	Restore wiring between pin B4 of **B68** and pin B4 of **G1** (BLK)
		OK ➡	Restore wiring between pin B10 of **B68** and pin B10 of **G1** (YEL)

NONE OF THE TIMER CONTROLLED LIGHTS WORKING	TEST G

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
G1 CHECK FUSE – Check that fuse **F16** in fusebox **G1** is not damaged	OK ➡ OK ➡	Carry out step **G2** Replace the fuse (7.5A)
G2 CHECK VOLTAGE – Verify 12V at pin 5 of the timer for courtesy light **N10**	OK ➡ OK ➡	Carry out **step G3** Restore wiring between pin E8 of **G1** and pin 5 of **N10**, and across the solder (RED)
G3 CHECK GROUND – Verify 0V at pin 7 of the courtesy light timer **N10**	OK ➡ OK ➡	Carry out **step G4** Restore wiring between pin 7 of **N10** and ground **G63b** (BLK)
G4 CHECK SIGNAL – Verify ground signal (0V) at pin 11 of the courtesy light timer **N10** when one of the doors is opened (and that this signal disappears when all the doors are closed correctly)	OK ➡ OK ➡	Replace the courtesy light timer **N10** Restore wiring between pin 11 of **N10** and pin L2 of **G1**, across pin C3 of connector **G73** (LTB-BLK). Check correct functioning of door open signalling device (refer to "Check Panel")

CENTRAL COURTESY LIGHT NOT WORKING	TEST H

NOTE:
If the controls of the central courtesy light are not illuminated when the sidelights are on, check the continuity between between pin 2 of **F35** and pin C1 of the fusebox **G1** (YEL-BLK), and , check the sidelights circuitry (refer to "Sidelights")

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
H1 CHECK FUSE – Check that fuse **F16** of the fusebox **G1** is not damaged	OK ➡	Carry out **step H2**
	OK ➡	Replace the fuse (7.5A)
H2 CHECK VOLTAGE – Verify 12V between pin 3 and 4 of courtesy light **F35**	OK ➡	Carry out **step H3**
	OK ➡	Carry out **step H4**
H3 CHECK BULBS – Check for damage of the courtesy light bulbs **F35** : spot-light bulb, two bulbs of the courtesy light, two bulbs lighting the controls.	OK ➡	Check and replace the entire group **F35** if necessary
	OK ➡	Replace faulty bulbs

(continues)

CENTRAL COURTESY LIGHT NOT WORKING	TEST H

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
H4 CHECK VOLTAGE – Check 12V at pin 4 of **F35**	OK ➡	Carry out **step H5**
	OK ➡	Restore wiring between pin E8 of **G1** and pin 4 of **F35**, and across the solder (RED)
H5 CHECK GROUND – Verify 0V at pin 3 of **F35**	OK ➡	Carry out **step H6**
	OK ➡	Restore wiring between pin 3 of **F35** and ground **G63b**, and across the solder (BLK)
H6 CHECK GROUND – Open a door, and immediately verify 0V at pin 1 of **F35**	OK ➡	Replace the complete courtesy light **F35**
	OK ➡	Restore wiring between pin 1 of **F35** and pin 8 of the timer **N10**, across pin C2 of connector **G73** (RED- GRN). If necessary, also check the correct functioning of timer **N10**. (refer to the preceeding **test G**)

PASSENGER COMPARTMENT COURTESY LIGHT NOT WORKING	TEST I

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
I1 CHECK FUSE – Check for damage of the fuse **F16** in fusebox **G1**	OK ➡	Carry out **step I2**
	OK ➡	Replace fuse (7.5A)
I2 CHECK VOLTAGE – Verify 12V between pin 3 and 2 of courtesy light **F3**	OK ➡	Carry out **step I3**
	OK ➡	Carry out **step I4**
I3 CHECK BULB – check for damage of the courtesy light bulb **F3**	OK ➡	Check and if necessary replace the complete courtesy light **F3**
	OK ➡	Replace the bulb

(continues)

PASSENGER COMPARTMENT COURTESY LIGHT NOT WORKING	TEST I

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
I4 CHECK VOLTAGE – Verify 12V at pin 2 of **F3**	OK ➡	Carry out **step I5**
	~~OK~~ ➡	Restore wiring between pin 6 of timer **N10** and pin 2 of **F3**, across courtesy light **F5** (RED). If the luggage compartment light also does not work: refer to the successive **test K**.
I5 CHECK GROUND – Verify 0V at pin 3 of **F3**	OK ➡	Carry out **step I6**
	~~OK~~ ➡	Restore wiring between pin 3 of **F3** and ground **G63b** (BLK)
I6 CHECK GROUND – Open a door, and immediately, verify 0V at pin 1 of **F3**	OK ➡	Replace the complete courtesy light **F3**
	~~OK~~ ➡	Restore wiring between pin 1 of **F3** and pin 9 of timer **N10** (WHT-BLK) If necessary, check for correct functioning of the timer **N10** (refer to the preceeding **test G**)

LIGHT ILLUMINATING IGNITION SWITCH NOT WORKING	TEST J

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
J1 CHECK FUSE – Check for damage of fuse **F16** in fusebox **G1**	OK ➡	Carry out **step J2**
	OK ➡	Replace fuse (7.5A)
J2 CHECK VOLTAGE – Open a door, and immediately, verify 12V between pin 1 and 2 of light **F16**	OK ➡	Carry out **step J3**
	OK ➡	Carry out **step J4**
J3 CHECK BULB – Check for damage of the bulb of light **F16**	OK ➡	Check and if necessary replace the complete light **F16**
	OK ➡	Replace the bulb
J4 CHECK GROUND – Open a door, and immediately, verify 0V at pin 2 of **F16**	OK ➡	Restore wiring between pin 1 of **F16** and connector Q of **G1**, and across the solder (RED)
	OK ➡	Restore wiring between pin 2 of **F16** and pin 8 of timer **N10**, across pins C2 of connector **G73** (RED- GRN).

LUGGAGE COMPARTMENT COURTESY LIGHT NOT WORKING	TEST K

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
K1 CHECK FUSE – Check for damage of fuse **F16** in fusebox **G1**	OK ➡	Carry out **step K2**
	~~OK~~ ➡	Replace fuse (7.5A)
K2 CHECK VOLTAGE – With boot open, verify 12V between pin 1 and 2 of luggage compartment courtesy light **F5**	OK ➡	Carry out **step K3**
	~~OK~~ ➡	Carry out **step K4**
K3 CHECK BULB – Check for damage of the courtesy light bulb **F5**	OK ➡	Check and if necessary replace the complete courtesy light **F5**
	~~OK~~ ➡	Replace the bulb

(continues)

LUGGAGE COMPARTMENT COURTESY LIGHT NOT WORKING	TEST K

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
K4 CHECK VOLTAGE – Verify 12V at pin 2 of **F5**	OK ➡	Carry out **step K5**
	~~OK~~ ➡	Restore wiring between pin 6 of timer **N10** and pin 2 of **F5** (RED)
K5 CHECK GROUND – Verify 0V at pin 1 of switch **H24**	OK ➡	Carry out **step K6**
	~~OK~~ ➡	Restore wiring between pin 1 of **H24** and ground **G63b**, across the solder and pin A2 of connector **G307** (BLK)
K6 CHECK GROUND – With boot open, verify 0V at pin 2 of **H24**	OK ➡	Restore wiring between pin 2 of **H24** and pin 1 of **F5**, across pin C2 of **G307** (GRY-WHT)
	~~OK~~ ➡	Replace switch **H24**

INSTRUMENT PANEL NOT ILLUMINATED	TEST L

NOTE: if none of the indicators and warning lamps on the instrument panel are working, check for correct supply: refer to "Instrument panel: supply and ground"
If the occational lamp works, immediately carry out **step L2**.

TEST PROCEDURE		RESULT	CORRECTIVE ACTION
L1	CHECK GROUND		
– Verify, with key rotated and rheostat **B16** in the position of maximum illumination, 0V at pin C1 of the instrument panel **C10**		OK ➡	Carry out **step L2**
		OK ➡	Restore wiring between pin C1 of **C10** and pin 1 of rheostat **B16** (YEL), and between pin 3 of **B16** and ground **G148b** (BLK)
L2	CHECK BULBS		
– Check for damage of the ten lamps on the instrument panel **C10**		OK ➡	Check and if necessary replace the complete instrument panel **C10**
		OK ➡	Replace faulty bulbs

INSTRUMENT PANEL ILLUMINATION REGULATION DEVICE NOT WORKING	TEST M

NOTE: before carrying out the following test, check that the sidelights are working correctly (refer to section "Sidelights")

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
M1 CHECK VOLTAGE – With the ignition switch turned and the sidelights switched on, verify 12V between pin 2 and 3 of rheostat **B16**	OK ➡	Replace rheostat **B16**
	~~OK~~ ➡	Carry out **step M2**
M2 CHECK RHEOSTAT – With the ignition switch turned and the sidelights switched on, check that the resistance between pins 3 and 1 of **B16** varies when the adjustment wheel is rotated	OK ➡	Restore wiring between pin H8 of **G1** and pin 2 of **B16**, and across the solder (YEL-BLK)
	~~OK~~ ➡	Replace rheostat **B16**