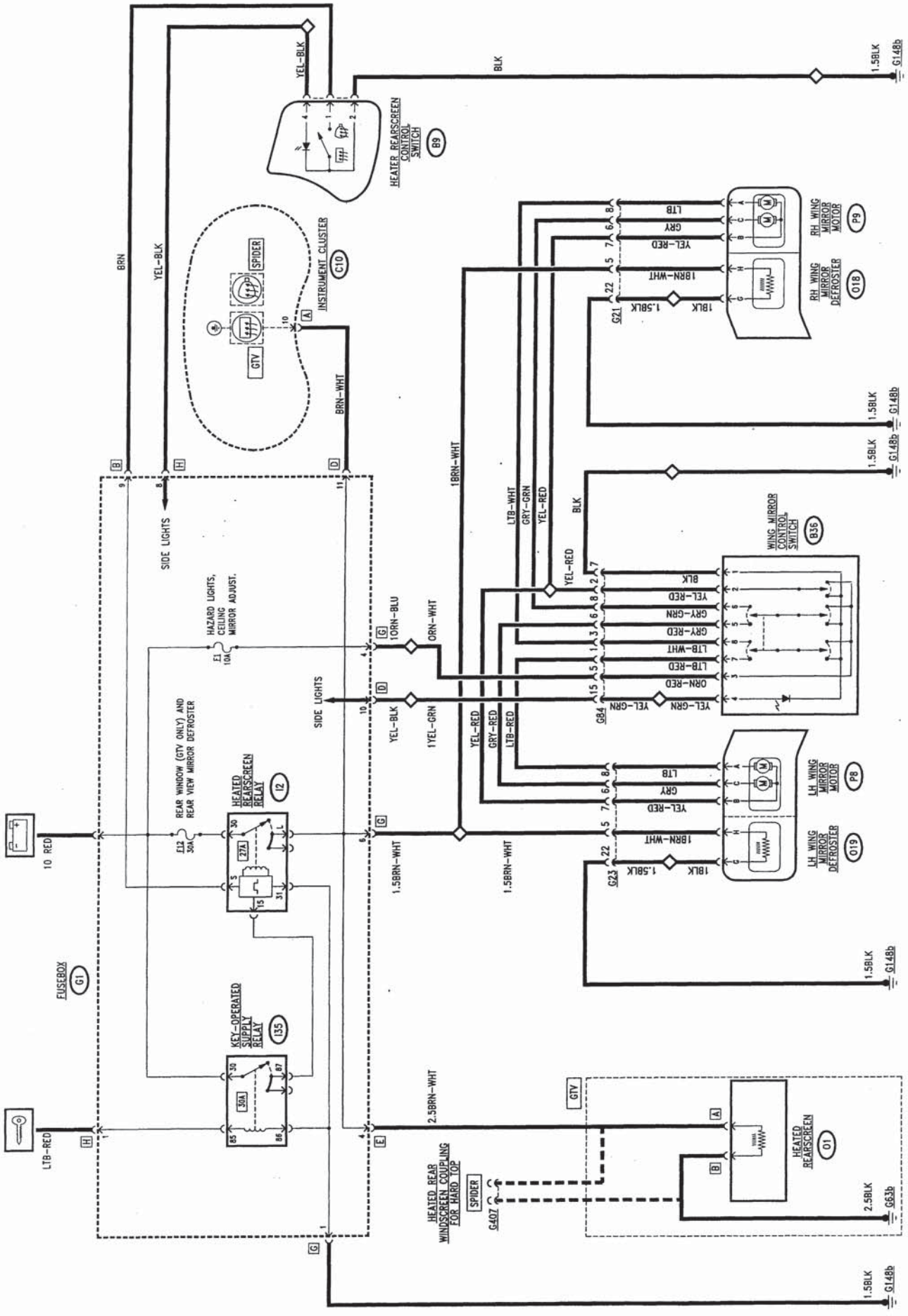
HEATED REARSCREEN AND WING MIRROR DEFROSTING AND ADJUSTMENT

INDEX

WIRING DIAGRAM



GENERAL DESCRIPTION

Defrosting

The rearscreen **(GTV only)** and wing mirrors incorporate a wire that heats the surfaces it contacts when it is crossed by current, thereby quickly demisting and/or defrosting them.
The device is actuated by pressing the corresponding switch on the panel which controls the heated rearscreen relay.
A warning light on the instrument cluster indicates when the device is operating.

For SPIDERS with a Hard Top, there is a special socket for connecting the rear windscreen incorporated in the actual Hard Top, located on the left panel.

Actuation of the heated rearscreen also turns on the wing mirror defrosting function.

N.B. The ideogram in the switch and on the warning light is different for the GTV which also includes the rearscreen and for the SPIDER which involves the wind mirrors only.

Wing mirror adjustment

The two wing mirrors are adjusted through the switch that operates two electric motors in each of the two mirrors (one motor turns the mirror on a horizontal axis, the other on a vertical axis.

A single switch operates both the left-hand and right-hand mirrors, as a selector makes it possible to switch from one to the other.

FUNCTIONAL DESCRIPTION

Defrosting

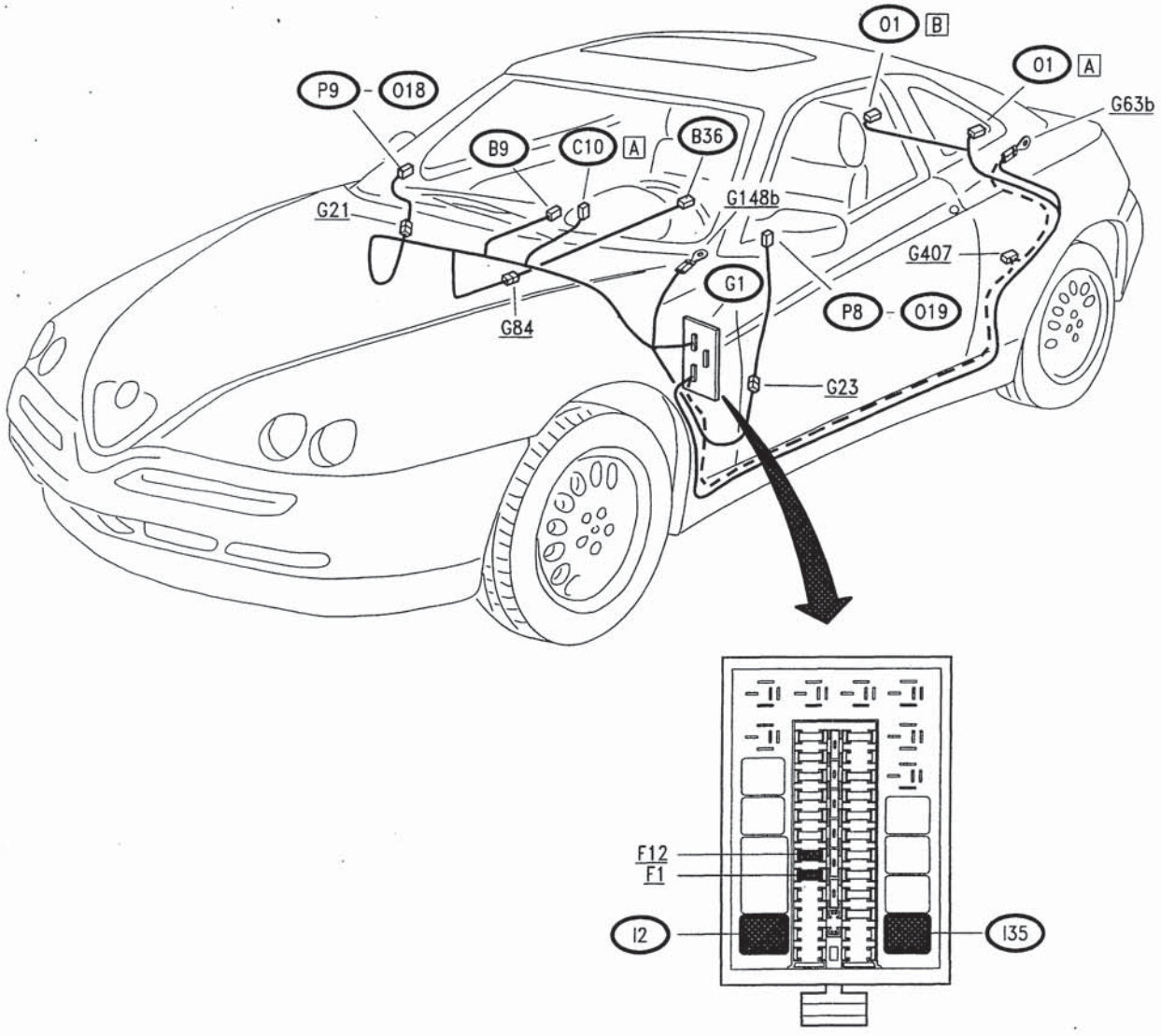
The line of fuse **F12** of fusebox **G1** supplies the rearscreen heating relay switch **I2**, the coil of which is supplied from the ignition switch and energized by an earth signal leading from switch **B9** or .
Relay switch **I2** to be found in fusebox **G1**, includes an electronic timing device which turns off the device after 20 minutes from the first time it is turned on and after 10 minutes if it is turned on again.

When the contact of relay switch **I2** closes the battery voltage supplies the line, which reaches the rearscreen heating **O1** (GTV only) and the resistances of the wing mirrors **O19** (left) and **O18** (right).
For SPIDERS, the supply is sent to socket **G407** to which the Hard Top is connected.
The same rearscreen supply signal is also sent to the instrument cluster **C10** to turn on the corresponding warning light.

Wing mirror adjustment

The double switch **B36** controls the two electric mirrors in the mirrors **P8** (left) and **P9** (right).
The switch is supplied with direct voltage - pin 3 - which crosses fuse **F1** of the fusebox **G1**; pin 1 is earthed.
Operating switch **B36** in one direction or in the other one of the motors receives positive and earth, in addition to the shared signal - pin 2, thereby determining the direction of rotation. Depending on the position of the selector, the right-hand motor **P9** (signals from pins 6 and 8 of **B36**) or the left-hand motor **P8** (signals from pins 5 and 7 of **B36**) is connected; the switch is illuminated by a led which is turned on when the sidelights are on (pin 4).

LOCATION OF COMPONENTS



– – – Spider with "Hard Top"

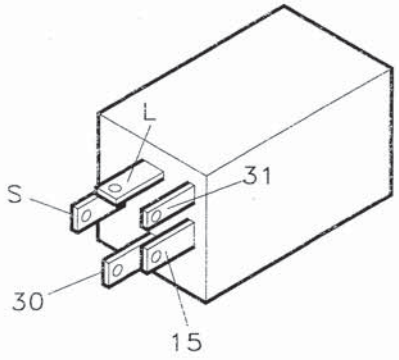
FAULTFINDING TABLE

Failure	Component to be checked										
	E12	I2	B9	O1	O19	O18	C10 (1)	E1	P8	P9	B36
Defrosting, under all circumstances	◦	◦	◦								
Rearscreen defrosting (GTV only)				◦							
LH wing mirror defrosting					◦						
RH wing mirror defrosting						◦					
Rearscreen warning light							◦				
Wing mirror adjustment, under all circumstances								◦			◦
LH wing mirror adjustment									◦		◦
RH wing mirror adjustment										•	•

(1) The instrument cluster **C10** cannot be repaired. Therefore, in the event of a failure it is not possible to change the single warning light and a new, complete cluster must be fitted.

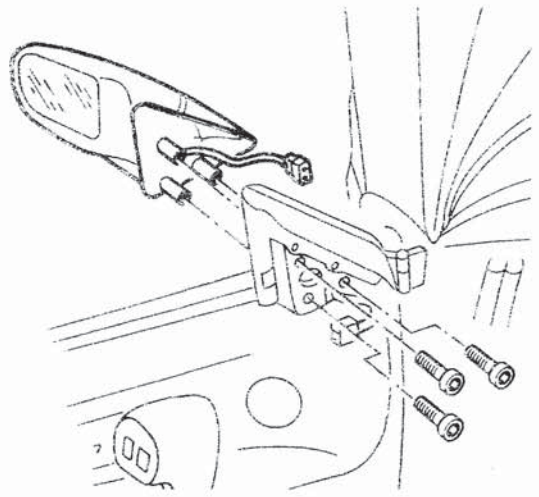
CHECKING COMPONENTS

Heated rearscreen relay (I2)



check device: see **test A**

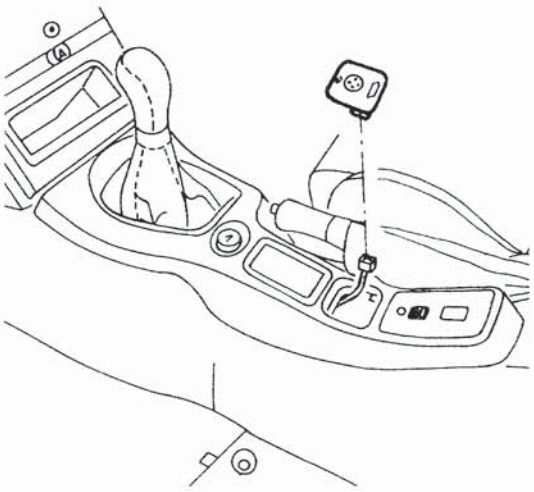
Wing mirror (O18-P9) (O19-P8)



SPECIFICATIONS	
Defrosting resistance (between pins G and H of the connector)	10 Ω

SPECIFICATIONS	
rotation upwards	12V at pin C, earth at pin B
rotation downwards	12V at pin B, earth at pin C
rotation rightwards	12V at pin B, earth at pin A
rotation leftwards	12V at pin A, earth at pin B

Double wing mirror control switch (B36)



Checking the device: see **test B**

CHECK REARSCREEN RELAY (I2)	TEST A

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
A1 CHECK VOLTAGE – Disconnect device **I2** and check on the base of fusebox **G1** for: 12V between pins 30 and 31. With the key at MARCIA: check for 12V between pins 15 and 31	OK ▶ ~~OK~~ ▶	Carry out **step A2** Check fuse **F12** of **G1**. If necessary check relay **I35**
A2 CHECK CONTROL SIGNAL – Insert rearscreen defrosting: check earth at pin S of I2	OK ▶ ~~OK~~ ▶	Insert device **I2** on the base of **G1** and continue with **step A3** Restore the wiring between **G1** and switch **B9**
A3 CHECK DEFROSTING CONTROL – Insert rearscreen defrosting: check 12V between pin 1 and 6 of connector G of **G1**: this voltage disappears after 20 minutes	OK ▶ ~~OK~~ ▶	DEVICE **I2** WORKS PROPERLY. Check other components. Replace relay **I2**

CHECKING DOUBLE WING MIRROR CONTROL SWITCH (B36)	TEST B

TEST PROCEDURE	RESULT	CORRECTIVE ACTION
B1 CHECK VOLTAGE – Check for 12V between pins 1 and 3 of **B36**	OK ▶ ~~OK~~ ▶	Carry out **step B2** Check fuse **F15** (15A). Restore the wiring between **B36** and fusebox **G1** and earth **G148b**.
B2 CHECK VOLTAGE – With the side lights on, check for 12V at pin 4 of **B36**	OK ▶ ~~OK~~ ▶	Carry out **step B3** Check that the side lights are working properly; also check the wiring between **B36** and **G1**
B3 CHECK VOLTAGE – Set the selector to the position for operating the **left** mirror and check: - 12V between pins A and B of mirror **P9** moving the switch rightward and leftward - 12V between pins B and C of mirror **P9** moving the switch upwards and downwards In the same way, moving the **right** mirror check: - 12V between pins A and B of mirror **P8** moving the switch leftward and rightward - 12V between pins B and C of mirror **P8** moving the switch upward and downward	OK ▶ ~~OK~~ ▶	THE SWITCH IS WORKING CORRECTLY. Check the connection with the other components Carry out **step B4**
B4 CHECK VOLTAGE – Set the selector to the position for operating the **left** mirror and check on **B36** for: - 12V between pins 7 and 2 moving the switch leftward and rightward - 12V between pins 5 and 2 moving the switch upward and downward In the same way, operating the **right** mirror check for: - 12V between pins 8 and 2 moving the switch leftward and rightward - 12V between pins 6 and 2 moving the switch upward and downward	OK ▶ ~~OK~~ ▶	Restore the wiring between **B36** and **P9** (RH) or **P8** (LH), or change one of the two motors Change switch **B36**