

FAULT-FINDING

AUTOMATIC CHECK UPON IGNITION: when the car is started the "ABS warning light" on the instrument cluster turns on for appr. 2 secs., then it goes off meaning that the system is working properly. If the warning light stays on, carry out diagnosis using the flashing code, as mentioned previously.

If the warning light does not turn on, carry out **test J**.

Fault-Finding using the Flashing Code

The self-diagnosis system with which this system is fitted, makes it possible to quickly locate a faulty component following the instructions of a **FLASHING CODE**, which is activated as follows:

– earth the line of pin A of connector T8

– power the ABS control unit N51 ("key-operated" supply")

Read the sequence of flashes on the "ABS warning light" on the instrument panel C10:

– for three times code "12" appears, meaning correct operation: if this does not occur, carry out **test J**

– the codes of the errors memorised appear (each repeated three times): carry out the test given in the following table

– code "12" appears for another three times, indicating the end of the sequence

NOTE: Resetting the memorised code is obtained by disconnecting the line of pin 1 of T8 and engaging the ignition switch 20 times (or using the ALFA ROMEO Tester)

Error Codes Table

CODE	FAULT	CARRY OUT TEST
12	Start and end of diagnosis	—
No code (*)	Control unit and self-diagnosis fault	A
16	Faulty LH front solenoid valve (VL)	Check the impedance of the solenoid valve ($1.5 \pm 2.5 \Omega$) and the condition of the connections between the control unit and the solenoid valve; if necessary change the solenoid valve
17	Fault RH front solenoid valve (VR)	Check the impedance of the solenoid valve ($1.5 \pm 2.5 \Omega$) and the condition of the connections between the control unit and the solenoid valve; if necessary change the solenoid valve
18	Faulty rear solenoid valve (HA)	Check the impedance of the solenoid valve ($1.5 \pm 2.5 \Omega$) and the conditions of the connections between the control unit and the solenoid valve; if necessary change the solenoid valve
19	Faulty safety relay	B
25	Incorrect number of phonic wheel teeth	Change the phonic wheel concerned see Group 33 "BRAKES")
35	Faulty pump motor	C
37	Faulty brake switch (H3)	D
39	Faulty LH front sensor (L29)	Check the impedance of the sensor (appr. 1 k Ω); change it if necessary. Then carry out the next test E .
41	LH front sensor (L29) not connected	E
42	Faulty RH sensor (L28)	Check the impedance of the sensor (appr. 1 k Ω); change it if necessary. Then carry out the next test F .
43	RH front sensor (L28) not connected	F
44	Faulty LH rear sensor ()	Check the impedance of the sensor (appr. 1 k Ω); change it if necessary. Then carry out the next test G .
45	LH rear sensor (L31) not connected	G
46	Faulty RH rear sensor (L30)	Check the impedance of the sensor (appr. 1 k Ω); change it if necessary. Then carry out the next test H .
47	RH rear sensor (L30) not connected	H
48	Insufficient supply voltage	I
55	Faulty electronic control unit	Change the control unit, contained in N51

(*) if the warning light is not working, see **test J**