

2. HOW TO IDENTIFY A HEATER FAULT

2.1 Webasto Rotary Controller

Air Top 2000 STC - rheostat and fault flashes

Watch the indicator after the heater completes its run-down. Five short flashes introduce the code; count the following long flashes. For example, four long flashes indicate F04.



Webasto rotary controller

Central triangular LED

The triangle in the centre of the dial flashes to report the fault code.

Temperature dial / rheostat

Count the long flashes shown below.

Example: F04

Five short flashes



Four long flashes = F04



1

2

3

4

Timing shown schematically; count the long flashes only.

Use the links below to open the relevant flash-code tables. SmartControl and MultiControl displays use a different code format; see section 2.2.

[3.1 Air Top 2000 STC - rotary F-code table](#)

[3.2 Air Top EVO 40 / 55 - flash and HEX codes](#)

STC workshop manual: section 5.3, p. 502 (PDF p. 23) - flash-code identification.

Requested ST reference: PDF pp. 21-22, sections 5.3-5.4. Model heading updated to STC.

2. HOW TO IDENTIFY A HEATER FAULT

2.2 SmartControl / MultiControl HD

Fault-code output and heater unlock

Read the display - installation manual section 7.1

Record the full displayed code, including its prefix, before acknowledging it with the knob or quick-start button. Saved controller errors are available under Error entry.



Hxx code example

Illustrative fault display. Record the actual letters and digits shown on your controller.

Section 7.1 describes Txx / Fxx errors and a flashing red LED.

On Air Top 2000 STC, SmartControl/MultiControl heater codes are hexadecimal: use the HEX tables in section 3.1. Do not interpret them as rotary flash counts.

Open the relevant heater fault codes

3.1 Air Top 2000 STC - HEX codes

3.2 Air Top EVO 40 / 55 - HEX and flash codes

3.3 Thermo Top EVO - fault codes

2.2.1 Air Top 2000 STC fuse reset / heater unlock

Select the table for the heater model fitted to the vehicle. Retain the full displayed prefix and code when diagnosing the fault.

Source: SmartControl / MultiControl HD installation manual, section 7.1, p. 12.

3. WEBASTO FAULT CODES

3.2 Air Top EVO 40 / 55

Flash and HEX codes - F00-F01 | 1 / 4

Flash code	HEX	Fault group	Additional PC diagnostic information	Troubleshooting
F 00	H01	Control unit defective / heater lock-out / internal room temperature sensor defective	Control unit error	Replace control unit
	H81		EOL checksum error	
	H11		Incorrectly coded control unit or incorrect heater (fuel type) installed (the heater will not work if this error occurs)	
	H91		Neutrally coded or disabled control unit (the heater will not work if this error occurs)	
	H92		Maintain command failed (no operation if fault occurs)	
	H18		Customer bus defective	
F 00	H07	Control unit defective / heater lock-out / internal room temperature sensor defective	Heater lock-out active	Delete heater lock-out: switch on unit and remove fuse. Reinstall fuse after more than 2 s and switch on unit again.
F 01	H02	No start / no flame formation	Even after the restart, no flame has formed	Check fuel supply (tank empty, lines blocked). Check exhaust temperature sensor for deposits from outside through exhaust fitting and clean carefully if necessary. Check evaporator mount and replace if necessary.
	H82		No start in test	
	H83		Maximum feed rate exceeded	

Source: supplied EVO 40 / 55 Flash and Hex Codes PDF, section 5.4 / Fig. 503, pp. 503-504.

3. WEBASTO FAULT CODES

3.2 Air Top EVO 40 / 55

Flash and HEX codes - F02-F08 | 2 / 4

Flash code	HEX	Fault group	Additional PC diagnostic information	Troubleshooting
F 02	H03	Flame abort	The flame has gone out during operation and has not reformed after a restart attempt	Check fuel supply (tank empty, lines blocked). Check exhaust temperature sensor for deposits from outside through exhaust fitting and clean carefully if necessary. Check evaporator mount and replace if necessary.
F 03	H84	Undervoltage or overvoltage	The voltage was less than 10.5 V or 20.5 V for longer than 20 seconds	
	H04		The voltage was more than 16 V or 32 V for longer than 6 seconds	
F 04	H05	Premature flame detection	The exhaust temperature sensor recognised a flame before combustion had started	Check exhaust temperature sensor and replace if necessary.
F 05		Not available		
F 06		Not available		
F 07	H88	Fuel pump defective	Open circuit in fuel pump	Check electrical wiring and fuel pump and replace if necessary.
	H08		Short circuit in fuel pump	
F 08	H09	Open circuit / short circuit / overloading / blockage in drive motor	Short circuit in drive motor	Eliminate cause of blockage / sluggishness. Check magnets of heating air fan and replace drive unit (drive motor with combustion and heating air fan) if necessary.
	H89		Open circuit in drive motor	
	H15		Blocking guard in drive motor	
	H95		Overload protection in drive motor	

Source: supplied EVO 40 / 55 Flash and Hex Codes PDF, section 5.4 / Fig. 503, pp. 503-504.

3. WEBASTO FAULT CODES

3.2 Air Top EVO 40 / 55

Flash and HEX codes - F09-F14 | 3 / 4

Flash code	HEX	Fault group	Additional PC diagnostic information	Troubleshooting
F 09	H19	Glow plug defective	Short circuit in glow plug	Check glow plug and replace if necessary.
	H99		Open circuit in glow plug	
F 10	H06	Overheating	Heater overheated - blow-out temperature sensor	Find and eliminate cause of overheating in hot air guide. Possible causes: pressure loss too high, line kinked, air outlet closed, soiling of blow-out temperature sensor.
	H5B		Heater overheated - PCBs - temperature sensor	
	H17		Temperature gradient exceeded - blow-out temperature sensor	
	H5C		Temperature gradient exceeded - PCBs - temperature sensor	
F 11		Not available		
F 12		Not available		
F 13		Not available		
F 14	H1B	Blow-out temperature sensor defective	Short circuit in blow-out temperature sensor	Check blow-out temperature sensor and replace if necessary.
	HAB		Open circuit in blow-out temperature sensor	

Source: supplied EVO 40 / 55 Flash and Hex Codes PDF, section 5.4 / Fig. 503, pp. 503-504.

3. WEBASTO FAULT CODES

3.2 Air Top EVO 40 / 55

Flash and HEX codes - F15-F19 | 4 / 4

Flash code	HEX	Fault group	Additional PC diagnostic information	Troubleshooting
F 15		Not available		
F 16	H4F	Exhaust temperature exceeded	Upper limit of exhaust temperature exceeded	Check free through-flow of combustion air and exhaust system, check CO2 setting, clean soot from heat exchanger if necessary.
F 17	H1A	Exhaust gas temperature sensor defective	Short circuit to ground in exhaust temperature sensor	Replace exhaust temperature sensor.
	H9A		Open circuit in exhaust temperature sensor	
F 18	H9B	Setpoint generator defective	Open circuit or short circuit to +Ub in setpoint generator	Check wiring and replace control element if necessary.
F 19	H93	Plausibility of sensors incorrect	Plausibility check not passed	Check exhaust temperature sensor / blow-out temperature sensor for plausibility and replace defective sensor.

Source notes: Serious malfunctions such as repeated overheating or failure to start can cause permanent lock-out. Return to operation requires repairs by Webasto-trained professionals.

With a rotary selector or Air Top Evo Multi Control, five short signals precede the long flashes. Count the long flashes to obtain the F-code number (e.g. F04 = four long flashes). A combination timer displays F01 to F15; subsequent faults are shown as "- -".

Source: supplied EVO 40 / 55 Flash and Hex Codes PDF, section 5.4 / Fig. 503, pp. 503-504.