

USER GUIDE



What to do in the event of a
heating fault Lock-out



SW6100 & SW07600 Fusion Units

A guide to resetting the Heating System
from **groundhog**

Heating fault lock-out

The control unit continuously monitors the heater operation. The control unit identifies errors on individual heater components and faults during operation. Should the control unit experience component errors and operational faults, the heater will be shut down.

The heater is shut down (fault lock-out) if:

- No or incorrect start
- Temperature sensor defective
- Overheating sensor interrupt or short circuit
- Overheating sensor installed incorrectly
- Ceramic glow pin interrupt or short circuit
- Fan motor overload or blocked or short circuit or interrupt
- Error in the fuel metering pump or overheating guard circuit (start phase only)
- Under voltage less than 10V or over voltage greater than 15V and for longer than 20 seconds.
- Control unit defective
- Overheating



Indicator light off



Indicator light on

Error code output

An error code is generated on the control element indicator light after an error has occurred. When determining the generated code, there will be a series of 5 fast flashes after which, the error code will be generated by a sequence of long flash pulses. Count only the long flash pulses to obtain the code.

Error codes are shown below:

- F 00** Control unit error / incorrect parameter set / warm start recognition
- F 01** No start (after 2 attempts to start) / no flame formation
- F 02** Flame failure (repeated more than 3 times)
- F 03** Under voltage or over voltage
- F 04** Premature flame recognition
- F 06** Temperature sensor interrupt or short circuit
- F 07** Metering pump interrupt or pump short circuit
- F 08** Fan motor interrupt or short circuit or overload or blocked
- F 09** Ceramic glow pin interrupt or short circuit
- F 10** Overheating: Resulting in permanent heater fault lock-out
- F 11** Control unit error / incorrect parameter set / warm start recognition
- F 12** Overheating sensor interrupt or short circuit
- F 13** Heater lock-out
- F 14** Overheating sensor incorrect position
- F 15** Set point generators interrupt

NOTICE Before trying to reset a heater that is in lock-out please ensure that there is sufficient fuel and battery voltage for the heater to operate.

DETERMINING THE ERROR CODE:

Example A
F 03



Control element indicator light flashes on and off **three** times



A series of 5 fast flashes signals the start of a new sequence



Sequence repeats until issue is resolved

Example B
F 02



Control element indicator light flashes on and off **two** times



A series of 5 fast flashes signals the start of a new sequence



Sequence repeats until issue is resolved

Resetting heater after Fault Lock-out



1 Locate the heater control on the control panel in the canteen area.

2 Turn the heater control clockwise to the "on" position, so that the error code is being given.

3 Make your way to the plant/ generator room. On the right hand side of the battery storage panel you will find a toggle switch showing heating "on" and "off".



4A Turn the toggle switch (4A) anti clockwise to the "off" position (4B).

5 Return to the control panel in the canteen and turn heater control anti clockwise to the "off" position.



6 Now back in the plant/ generator room turn the toggle switch to the "on" position.

7 Finally, turn the heater control in the canteen clockwise to the "on" position; you should now see a solid green triangle in the centre of the heater control to show the heating is in working order.

Important

To prevent heater lock-out during the winter months it's advised that the generator should be run for 2 hours every night before leaving site. The generator is fitted with a 2 hour run timer which will automatically shut the generator off.



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