

QUICK REFERENCE TROUBLESHOOTING

Note: *If the operator suspects there is a problem with the unit and there is no case currently running, the Diagnostic routine should be performed.
See page 26 figure d. of operators manual for instructions.*

PROBLEM	POSSIBLE SOLUTIONS
Main chamber door will not open.	A. CB1-2 is tripped. 1) Check the circuit breaker for a tripped position. If tripped, reset the circuit breaker.
	B. Hydraulic fluid level low. 1) Check the reservoir tank of the hydraulic pump. If needed, fill the reservoir. Do Not Overfill
	C. Hydraulic fluid leak. 1) Check for leaks at all connection points. Replace any bad fittings and hoses.
	D. Hydraulic seals punctured. 1) Check all seals on the cylinders and pump. Replace any bad parts.
Main chamber door will not close.	A. Defective "Door Down" push button contact. 1) Try the operator interface door buttons. 2) Using a multi-meter, check the contacts of the button. (Ensure that there is power present and that the switch has continuity when pressed)
	B. Solenoid valve is not working properly. 1) Check solenoid valve. If valve is bad, replace with proper part.
Main chamber door will not stay open.	A. Hydraulic fluid level low. 1) Check the reservoir tank of the hydraulic pump. If needed, fill the reservoir. Do Not Overfill
	B. Hydraulic fluid leak. 1) Check for leaks at all connection points. Replace any bad fittings and hoses.
Blower will not start.	A. No power to the unit. 1) Check main power supply to the unit. If breaker is tripped, then reset. If using a fuse, replace the bad fuse.
	B. Motor starter overload tripped. 1) Reset the overload, located in the control panel. (See figure 32 page 29)
	C. Switch is in the on position. 1) Check the switch located on the back of the unit; confirm the switch is in the on position.
	D. PLC programming needed. Call Cremation Systems for instructions.

PROBLEM	POSSIBLE SOLUTIONS
<p>Unit will not begin purging.</p>	<p>A. Blower motor not operating. 1) Check circuit breaker for tripped state. If tripped, reset. 2) Check the "reset" button on the overload. If tripped, reset. 3) Check the switch on rear of unit. Should be in on position.</p>
	<p>B. Low Air Pressure Switch not operating. 1) Check the setting on the LAPS (located on top of the unit, on the side of the afterburner), too high of a setting can cause the switch to never prove. Setting should be 1.6 - 1.8 on the dial. (Must remove plastic cover to access dial)</p>
	<p>C. Limits not met. 1) Check the operation of the LAPS (Colored dot near stack on operator interface) Green = air proved, Red = air not proved. 2) Confirm the door is completely closed. (See figure 3 page 9)</p>
	<p>D. PLC programming needed. Call Cremation Systems for instructions.</p>
<p>Afterburner will not ignite.</p>	<p>A. Spark igniter is dirty or defective. 1) Remove spark igniter and clean with emery cloth or fine sand paper and reinstall. 2) Check spark by resetting the burner and watching for spark through sight port on top of the burner.</p>
	<p>B. Ignition transformer defective. 1) Check the 120 volt supply power to the transformer. If power is good, the secondary side may be faulty. If no spark is present at secondary side, replace the ignition transformer.</p>
<p>Afterburner will not stay lit.</p>	<p>A. Defective UV scanner. 1) Remove the scanner, clean the lens. If a blinking light is present, the scanner may have faulted. Replace scanner.</p>
	<p>B. Low Gas Pressure. 1) There may be an issue with the supply coming from the utility company. Check pressures and contact utility company if needed.</p>
	<p>C. Burner out of adjustment. Call Cremation Systems for service.</p>

PROBLEM	POSSIBLE SOLUTIONS
<p>Main burner will not ignite.</p>	<p>A. Spark igniter is dirty or defective. 1) Remove spark igniter and clean with emery cloth or fine sand paper and reinstall. 2) Check spark by resetting the burner and watching for spark through sight port on top of the burner.</p>
	<p>B. Ignition transformer defective. 1) Check the 120 volt supply power to the transformer. If power is good, the secondary side may be faulty. If no spark is present at secondary side, replace the ignition transformer.</p>
<p>Main burner will not stay lit.</p>	<p>A. Defective UV scanner. 1) Remove the scanner, clean the lens. If a blinking light is present, the scanner may have faulted. Replace scanner.</p>
	<p>B. Low Gas Pressure. 1) There may be an issue with the supply coming from the utility company. Check pressures and contact utility company if needed.</p>
	<p>C. Burner out of adjustment. Call Cremation Systems for service.</p>
<p>System shut down unexpectedly.</p>	<p>A. Loss of combustion air. 1) Check the combustion blower circuit breaker, reset if tripped. 2) Check combustion blower motor overload, reset if tripped. 3) Check blower air intake for blockage.</p>
	<p>B. High Limit AB temperature. 1) If the AB temperature goes above 2100 degrees, a timer will begin to count. If the timer goes done or 2250 degrees is surpassed, the system will shut down. (Wait for system to cool, clear the alarm and follow on screen instructions)</p>
	<p>D. High Limit Stack temperature. 1) If the stack goes above 1300 degrees, a timer begins. If this timer goes done or if the stack goes above 1800 degrees, the system will shut down. (Wait for system to cool, clear the alarm and follow on screen instructions)</p>
	<p>E. High Limit Attic temperature If the attic temperature reaches 350 degrees, the unit will shut down. (Wait for system to cool, clear the alarm and follow on screen instructions)</p>

PROBLEM	POSSIBLE SOLUTIONS
<p>Temperatures in the unit are displaying -454 or 2498</p>	<p>A. Defective Thermocouple 1) The thermocouple has malfunctioned and needs to be replaced. If it is the thermocouple in either the Stack or the Afterburner, then the ceramic protection tube also needs to be inspected for damage or corrosion. Replace if needed.</p>
<p>Afterburner temperature not rising above 800 degrees</p>	<p>A. Flame Is Not Present 1) The red “flame” light on the flame supervision should be lit up. (See figure 31 page 29) 2) The Afterburner flame should be visible through the viewport. If visible, the flame should be blue and 2’ to 3’ long.</p> <p>B. Output Value Incorrect 1) Press the Afterburner chamber temperature on the operator interface. The AB Output should read at least 65%. and AB Set Point should read a minimum of 1400 degrees F.</p> <p>C. Electronic Value Is Incorrect 1) Call Cremation Systems for service</p>
<p>Afterburner temperature not achieved within 30 minutes of cycle starting</p>	<p>A. Flame Is Not Present 1) The red “flame” light on the flame supervision should be lit up. (See figure 31 page 29) 2) The Afterburner flame should be visible through the viewport. If visible, the flame should be blue and 2’ to 3’ long.</p> <p>B. Thermocouple Condition 1) The Afterburner TC is located behind the diamond plate cosmetic panel on the front of the unit (See figure 33 page 29). Once this panel is removed, unplug the top of the TC, remove and check both the TC and the protection tube for damage. If the TC looks good, put a torch on the end of the TC and watch the values on the operator interface. (If value goes up, the TC is good)</p>
<p>Electrical power outage or system shutdown</p>	<p>A. Refer to figure B. on page 11</p>
<p>Prolonged or excessive smoke coming out of the stack</p>	<p>A. Do Not Turn Off Power</p> <p>B. Main Burner Off 1) If the Main Burner has not yet been intentionally forced off, go to the Options menu and Force Main Burner Off</p> <p>C. Aux Air On 1) If the Aux Air has not yet come on, turn it on by touching to the right of the afterburner flame icon on the operator interface and selecting on. (See figure 21 page 24)</p>

PROBLEM	POSSIBLE SOLUTIONS
<p>Operator does not think the case will process in the allotted time (Based on operator observation)</p>	<p>A. Time Needs To Be Added 1) If the operator will not be present for the remainder of the case, then it is recommended that time be added to the burn phase. (See figure 16 on page 16)</p>
	<p>B. Cycle Should Be Held 1) If the operator will be present for the remainder of the case, then they can either add time or hold the cycle. To hold the cycle, go to Options and select HOLD CYCLE.</p>
<p>Date and time are wrong on the HMI operator interface</p>	<p>A. Set The Time And Date 1) Press and hold the top left of the operator screen for 10 seconds. This will allow access to the menu, select Settings and then select Clock. Use side arrows to navigate and up/down arrows to set, once correct hit ok and leave the menu.</p>
<p>HMI screen is displaying only a cursor on a white/grey screen</p>	<p>A. USB Data Needs To Be Downloaded 1) See # 2 on page 21 for instructions on how to download data from USB to a computer.</p>
<p>Operator needs to access the alarm screen</p>	<p>A. Alarm Is Active 1) During this time, the alarm screen can be accessed from the Alarm Light on the operator interface (See figure 28 on page 27) 2) Navigate to the Set Up Screen and choose Alarm Screen (See figure 27 on page 27)</p>
	<p>B. Alarm Is Not Active 1) During this time, the only access to the alarm screen is to navigate to the Set Up Screen and choose Alarm Options and then Alarm Screen (See figure 27 on page 27)</p>

For all other technical questions regarding the CFS2300 unit, please call Cremation Systems at (708) 339-6810