

[6300/6500] - 8500

15. USSC Factory Test

The USSC Factory Test is used at the factory where the furnaces are assembled to test the functionality of the control and the furnace before the unit is shipped. To perform this test, press and hold the OFF and AUGER DELAY buttons simultaneously for 3 seconds. To advance through the test, press any key unless otherwise noted in the test step.

1. Exhaust Fan Output Test - The display will show "drft". The exhaust fan is turned on full then reduced to a level just above the typical minimum pressure switch setting. The ON LED indicates whether the pressure sensor is detected. If the pressure switch is not detected, the fan ramps to full on for two seconds then returns to the previously established level if the pressure switch closes. If the Draft Fan Fuse is not blown and the fuse detection circuit is functioning, the Draft Fan LED will be lit and the other three top row LEDs will be off.
2. Room Fan 1 Output Test - The display will show "rfn1". The room fan 1 is turned on full. If the Room Fan 1 Fuse is not blown and the fuse detection circuit is functioning, the Room Fan LED will be lit and the other three top row LEDs will be off.
3. Room Fan 2 Output Test - The display will show "rfn2". The room fan 2 is turned on full. Since there is no blown fuse detection circuit on the daughter board fan, none of the top row LEDs should be lit.
4. Agitator Output Test - The display will show "agit". The agitator motor is turned on full. If the Agitator (AUX) Fuse is not blown and the fuse detection circuit is functioning, the Aux LED will be lit and the other three top row LEDs will be off.
5. Auger Output Test - The display will show "augr". The auger motor is turned on full. If the Auger Fuse is not blown and the fuse detection circuit is functioning, the Heat Range LED will be lit and the other three top row LEDs will be off.
6. Hopper Switch Test - The display will show "hppr". If the hopper switch is open (lid is open), the ON LED will turn on otherwise, it will be off.
7. Thermostat Input Test - The display will show "stat". If the thermostat input is shorted, the ON LED will turn on, otherwise, it will be off.
8. Interlock Switch Test - The display will show "intl". If the interlock is made (closed), the ON LED will turn on otherwise, it will be off.
9. Fluegas Thermistor Test - The display will show the fluegas temperature in degrees F.
10. Vent Thermistor Test - The display will show the vent temperature in degrees F.
11. Ambient Thermistor Test - The display will show the temperature of the daughter board thermistor in degrees F.
12. AC Frequency Test - Displays the measured AC Frequency in hertz followed by the letter 'H'.
13. Watchdog Reset - The watchdog timer is tested to ensure that the board can be reset. The message "BYE" is displayed until the watchdog resets the board.