

Many of the most serious trouble conditions on this unit will cause a “lockout,” and the controller will present a lockout code on the display. Often the lockout code will take you directly to the cause of the problem. After you have corrected the problem, press the Reset button to exit from the lockout.

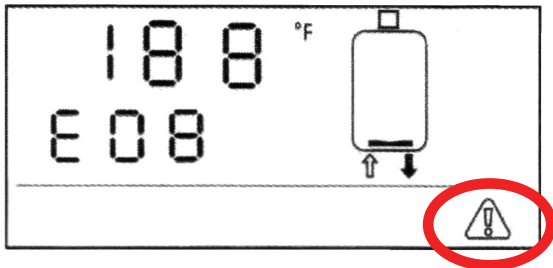


Fig. A2-1 Example of Lockout Screen

E001 – Memory error lockout

There has been a lockout due to a problem with the EEPROM memory in the control unit.

- Press the Reset button to try to cancel the lockout.
- Power down the unit, wait two minutes, then power on the unit again.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E002 – Fan speed error

There has been a lockout because the fan did not reach normal speed.

- Check for a blockage in the vent.
- Check the wiring to the blower. Disconnect the signal connection to the blower - the blower should run at full speed. See Section B11. If the blower reaches full speed, the blower itself is probably OK.
- If the blower does not reach full speed, remove the blower and check for free movement of the fan. Replace the blower if necessary.
- If the blower moves freely, replace the SIT control board. See Section B30.

E003 – Flame present when not expected (not in Run)

There has been a lockout because the controller detected a flame when the unit was not running.

- Check the wiring to the flame sensor.
- If the wiring is OK, replace the flame sensor. See Section B16.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E004 – Outlet auto-reset hi limit

There has been a lockout because the water outlet temperature sensor reported too high a temperature.

- Check the wiring to the water outlet temperature sensor.
- Check the sensor function, and replace it if necessary. See Section B4.
- If this does not restore normal operation, replace the control board. See Section B30.

E005 – Water pressure switch error

There has been a lockout because of the problem with the water pressure switch.

- * Check the water supply to the unit. The switch will not close unless 5 psi of water pressure is present.
- Check the wiring to the system water pressure switch.
- If the wiring is OK, replace the switch. See Section B10.
- If this does not restore normal operation, replace the control board. See Section B30.

E006 – Safety switch – not used

E007 – Low water cutoff error

There has been a lockout because the optional low water cutoff switch reported a low-water condition or is open.

- Check the water supply.
- Check the LED's on the front of the optional low water cutoff switch. See Section B19. The system will present this error if the switch is open (low water condition.)
- Check the wiring to the low water cutoff switch.

- Check the switch function and replace the switch if necessary. See Section B19.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E008 – Field interlock error

- This indicates a problem with the control circuits outside the boiler.
- If the external circuits are OK, but the boiler does not restore normal operation, replace the SIT control board. See Section B30.

E009 – Blocked vent switch

There has been a lockout because the controller did not detect a normal airflow through the system.

- Check for a blockage in the vent.
- Check the wiring to the air pressure switch. See Section B12.
- Check the function of the switch. Replace the switch if necessary.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E010 – Blocked vent/ fan proving switch error

There has been a lockout because the controller did not detect a normal airflow through the system.

- Check for a blockage in the vent.
- Check the wiring to the air pressure switch. See Section B12.
- Check the function of the switch. The system will present this error if the switch is open (not enough air moving through the unit.) See Section B12 for instructions. Replace the switch if necessary.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E011 – Flame loss lockout

There has been a lockout because the controller detected three consecutive flame losses while the unit was trying to run.

- Check the wiring to the flame sensor. See Section B16.
- Remove and clean the flame sensor. Replace it if necessary. See Section B16.
- Check the wiring to the gas valve. See Section B13.
- Check for possible problems with the gas supply.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E012 – Lockout due to three consecutive failed ignitions

- Check the wiring to the flame sensor.
- Remove and clean the flame sensor. Replace it if necessary. See Section B16.
- Check the wiring to the gas valve. See Section B13.
- Check for possible problems with the gas supply.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E013 – Flue high temperature

The flue sensor reported a temperature above 195°F.

- Check for a blocked flue.
- Check the wiring to the flue safety sensor. See Section B8.
- Check for correct switch function and replace the switch if necessary.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E014 – Outlet high temperature (manual reset high limit)

- Check for a blocked flue.
- Check the wiring to the outlet water temperature sensor. See Section B4.
- An E014 error indicates that the system has reached the high limit and locked out. Did the system actually get that hot, or is there a problem with the sensor? Replace the sensor if necessary.
- If this does not restore normal operation, replace the SIT control board. See Section B30.

E015 – Flue sensor drift too high

The sensor used here is a dual sensor. The controller compares the signals from both sensors, and triggers an error if the difference between the two (the “drift”) is too great.

- Check the wiring to the sensor. See Section B8.
- Replace the sensor if necessary.

E016 – Outlet sensor drift too high

The sensor used here is a dual sensor. The controller compares the signals from both sensors, and triggers an error if the difference between the two (the “drift”) is too great.

- Check the wiring to the water outlet temperature sensor. See Section B4. An E018 error indicates that the sensor has failed.
- Check the sensor function and replace the sensor if necessary.

E017 – Flue sensor error

- Check the wiring to the sensor. See Section B8.
- Replace the sensor if necessary.

E018 – Outlet sensor error

- Check the wiring to the water outlet temperature sensor. See Section B4. An E018 error indicates that the sensor has failed.
- Check the sensor function and replace the sensor if necessary.

E019 – Inlet sensor error

- Check the wiring to the inlet water temperature sensor. See Section B3.
- Replace the sensor if necessary.

DU IN LOCKOUT -

You will see this if the system is in lockout, and you try to go to the Installer mode.

- Press the Reset button to exit from the lockout.