

## **AES Technical Bulletin**

### **Operation/Troubleshooting Codes for all Country Flame Pellet and Corn Stoves**

<i>Intelli-Choice</i> Code Display	Possible Causes For Code Displayed
<b>Code 0</b>	System should exhibit Code 0 when the power is first supplied to stove product. After a few seconds, the vacuum switch should pull closed and cause a Code 1 to be displayed. If Code 0 remains, this means the (a) control board is defective, (b) the vacuum switch is defective, (c) the vacuum line is plugged between the vacuum switch and the combustion exhaust fan, or (d) the wiring between the control board and the vacuum switch is defective. The Control Board provides 5 volts DC to the vacuum switch and checks for its presence. The vacuum switch is normally closed. When the combustion exhaust fan creates enough vacuums, the vacuum switch opens, removing the 5VDC signal and telling the control board a vacuum is present. This is the START-UP CYCLE.
<b>Code 1</b>	<i>Intelli-Choice</i> Control Board recognizes the vacuum switch is operating properly. Stove will go from START-UP CYCLE TO IGNITION CYCLE.
<b>Code 2</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND the overtemp snap disk is hot. A wiring problem has occurred, OR two components (vacuum switch and overtemp disk) are bad, which is highly unlikely.
<b>Code 3</b>	<i>Intelli-Choice</i> Control Board recognizes overtemp disk is hot. A wiring problem has occurred, OR the control board is bad, OR the overtemp disk is bad.
<b>Code 4</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND there is a problem with the exhaust snap disk, OR the room air snap disk OR there is a wiring problem. IF the stove has ever been operating properly, the likelihood of two items failing at the same time is highly unlikely.
<b>Code 5</b>	<i>Intelli-Choice</i> Control Board recognizes a problem with the exhaust snap disk, OR the room air snap disk OR there is a wiring problem. It is most likely a problem with the exhaust snap disk if the stove has been operating properly previous to Code 5 being displayed.
<b>Code 6</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND there is a problem with the exhaust snap disk, OR the room air snap disk AND the overtemp snap disk OR there is a wiring problem. If the stove is cool then both the room air snap disk and overtemp snap disk are bad, which is highly unlikely; therefore it is most likely the exhaust snap disk and the vacuum has become plugged with soot as the stove cooled down.
<b>Code 7</b>	<i>Intelli-Choice</i> Control Board recognizes a problem with the exhaust snap disk, OR the room air snap disk AND the overtemp disk, OR there is a wiring problem. It is most likely a problem with the exhaust snap disk if the stove has been operating properly.
<b>Code 8</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND there is a problem with the room air snap disk, OR there is a wiring problem. It is most likely the room air snap disk with a clogged vacuum if the stove has been operating properly.
<b>Code 9</b>	<i>Intelli-Choice</i> Control Board has completed the IGNITION CYCLE and is switching to the BURN CYCLE. The igniter should shut down to conserve energy and the stove will now watch for the room air snap disk to close before recognizes a problem with the exhaust snap disk, OR the room air snap disk, OR there is a wiring problem. If the stove is cool, it is most likely the exhaust snap disk. If the stove is hot, it is most likely the room air snap disk.
<b>Code A</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND there is a problem with the snap disks, or there is a wiring problem. If the stove is cool, then it is most likely the exhaust and overtemp snap disk. If the stove is hot, then it is most likely the room air snap disk OR there is a wiring problem. The vacuum has plugged due to improper airflow or inefficient burn process.
<b>Code B</b>	<i>Intelli-Choice</i> Control Board recognizes there is a problem with the snap disks. If the stove is cool, then it is most likely the exhaust and overtemp snap disk. If the stove is hot, then it is most likely the room air snap disk, OR there is a wiring problem.
<b>Code C</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND there is no problem with the snap disks if the stove is hot and has not reached overtemp condition. If the stove is cool, then both exhaust and room air snap disk are bad OR there is a wiring problem. The vacuum has plugged due to improper airflow or an inefficient burn process.
<b>Code d</b>	<i>Intelli-Choice</i> Control Board recognizes system is operating properly in the BURN CYCLE. The system will stay in the BURN CYCLE until some outside force interrupts the system, i.e., fuel hopper empties, power interruption, system turned off by operator, thermostat does not call for heat, etc.
<b>Code E</b>	<i>Intelli-Choice</i> Control Board recognizes a vacuum is not present AND an overheat condition of the stove, if the stove is hot. If the stove is cool, then all snap disks are bad OR there is a wiring problem. If the stove has been operating properly, it is most likely an overheat condition due to failure of an exhaust or room air fan. The vacuum has become plugged due to inefficient burn.
<b>Code F</b>	<i>Intelli-Choice</i> Control Board recognizes an overheat condition of the stove, if the stove is hot. If the stove is cool, then all snap disks are bad OR there is a wiring problem. If the stove has been operating properly, it is most likely an overheat condition due to failure of an exhaust or room air fan.
<b>Code L</b>	<i>Intelli-Choice</i> Control Board recognizes a startup problem. The igniter did not create a fire within the specified time (approximately 10) and has timed out. The igniter system or combustion airflow should be checked and corrected.
<b>Code P</b>	<i>Intelli-Choice</i> Control Board has been put into the prime mode. The system is "loading" the auger full of fuel. Once pellets or corn start dropping into the burn pot, the system should be turned off and then startup procedures can be initiated.

**NOTE: Reverse highlighted** codes are NORMAL operating codes. Any code that is NOT **reverse highlighted** is considered an ABNORMAL condition. Corrective action is required to eliminate abnormal code before stove operation continues.