

Diagnostic mode for 25-cb120 scrolling board.	Model involves			
	25-CB120			
	*approximate			
	Serial Numbers		Pages	
3200*	to	Present	1 of 1	

Important before any troubleshooting attempt:

1. How to Perform Test Procedure on 25-CB120 Units with Scrolling Firmware

Steps	Description
Press the UP , DOWN and ON buttons simultaneously and release. 1.01	The unit will then scroll “ DIAGNOSTIC MODE ” followed by “ REV 3.1 ” or whatever revision is present on the board at the time. NOTE: if the board is not loaded with a “PRO” file to operate the unit the display will show “ REV 3.0 ” and will need to be uploaded with this file to operate properly.
Press the ON button. To continue 1.02	The board will flash the LED’s of the display. This is to test that all of the LED’s are functional.
Press the ON button. To continue 1.03	The board will scroll “ AUGER OFF ” at this point to test the auger motor press the UP arrow, the board will then scroll “ AUGER ON ” and the auger motor should run continuously. To stop the auger, press the DOWN arrow, the board will revert back to scrolling “ AUGER OFF ” and the motor will stop. <i>(It is recommended the burn pot be installed during this portion of the test to prevent pellets from dropping into the cradle below the burn pot)</i>
Press the ON button. To continue 1.04	The board will scroll “ DRAFT OFF ” at this point to test the draft (exhaust) blower press the UP arrow, the board will then scroll “ DRAFT ON ” and the draft blower will run at its highest output. To stop the draft blower, press the DOWN arrow, the board will revert back to scrolling “ DRAFT OFF ” and the blower will stop. (NOTE) the draft blower must be running to test the vacuum circuit later in the test so, to leave it running simply leave the board in the “ DRAFT ON ” configuration, do not press the DOWN arrow, instead press ON button to skip to the next step leaving the draft blower running.

<p>Press the ON button. To continue 1.05</p>	<p>The board will scroll “ROOM AIR OFF” at this point to test the room air (convection) blower press the UP arrow, the board will scroll “ROOM AIR ON” and the room air blower will start running at its highest output. To stop the room air blower, press the DOWN arrow, the board will revert back to scrolling “ROOM AIR OFF” and the blower will stop.</p>
<p>Press the ON button. To continue 1.06</p>	<p>The board will scroll “IGNITOR OFF” to test the igniter press the UP arrow, the board will then scroll “IGNITOR ON” and the ignitor will energize and start to heat up. After 3 to 4 minutes the ignitor should be at its full temperature and the glow from it should be visible in the mouth of the ignitor tube. (it is recommended that the burn pot be removed during this part of the test especially if the burn pot has fuel present from testing the auger and that the draft blower is running to pull air through the ignitor sleeve) to power down the ignitor press the DOWN arrow the board will revert to scrolling “IGNITOR OFF” and the ignitor will power down.</p>
<p>Press the ON button. To continue 1.07</p>	<p>The board will scroll “FIRE SENSOR UNPLUGGED OR COLD” or whatever temperature the firebox sensor is reading if the stove is warm from a previous fire. At this point if the unit is cold, the sensor can be tested using a lighter or other heat producing device to warm the sensor, as the sensor is warmed the display will adjust to display the temperature as it changes (“FIRE SENSOR 105”). If the firebox sensor is disconnected or reading below its scale the board will still scroll “FIRE SENSOR UNPLUGGED OR COLD”.</p>
<p>Press the ON button. To continue 1.08</p>	<p>The board will scroll “ROOM 67F” or whatever temperature the room sensor is reading. At this point the sensor can be tested simply by holding the bulb at the end of the wire in your hand allowing body heat to warm it. As the bulb warms up the scrolling display will indicate a higher temperature number. If the room temp sensor is unplugged or defective the display will scroll “CONNECT ROOM TEMP SENSOR”.</p>
<p>1.09 Press the ON button. To continue</p>	<p>The board will scroll “H1 or H0”, “T1”, “V1 or V0” depending on the position of the hopper lid and front door. The “H” indicates the status of the hopper lid switch, with “H1” meaning the lid is closed and “H0” meaning the lid is open. The “T1” should always read as such since that circuit is jumped closed and is not used on this model. The “V” indicates the status of the vacuum switch, with “V1” meaning the door is closed and “V0” meaning the door is open. (NOTE: the draft blower must be running to test this circuit) to properly perform this portion of the diagnostic, read the codes as they scroll with both the front door and hopper closed. Then open each and note the scrolling readout to see if the board reflects the proper status of each switch.</p>

1.10 To cycle the board back to the beginning of the diagnostic mode press the **ON** button, this allows the user to cycle back around to turn the draft blower off or to re-run the test if desired.

To exit the test simply press the **OFF** button. Exiting the test can be done by pressing **OFF** at any point during the test. The user does not need to cycle to the end to exit but it is recommended to cycle through and ensure each component test is set to the “**OFF**” status before exiting the diagnostic mode.

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