

C-5000 System Check

Once a week the unit should be run through the check list to make sure all components are functioning properly.

Checking the system components is done by an initial visual inspection and then following the “Self Test Mode” steps.

Use the follow text and illustrations as a guide through the Check List procedure..

NOTE: Plant Air must remain a constant minimum of 100 psi.

NOTE: “Self Test can only be done when conveyor is not running.

Step 1 Check the electrical sensing components of the C-5000. Before checking the sensors TURN AIR TO THE UNIT OFF. To do this turn the knob on the Manual Control Valve (illustration 1) to the exhaust position (EXH). Once air to the unit is off, make sure that electrical power to the unit is on. On the electrical box push in the red E-Stop (EMO) then twist to the left and release. (illustration 2)



Illustration 1



Illustration 2

Visual Inspection

Conduct a visual inspection of the electrical sensors, the Photo Eyes, Limit Switches and Proximity Switches beginning with the Photo Eyes..

Check that the red light is shining on each of the Photo Eyes (illustration 3). If it is not, check the connection. I the cable is securely plugged in and the light still is not on, replace the Photo Eye.



Illustration 3

From the discharge end of the unit look at the Photo Eyes. Note the position of the Beam Faces. The faces should be positioned vertically, one on top of the other. (illustration 4)



Illustration 4

If the faces are not positioned vertically, loosen the black nut, turn the Photo Eye and retighten the nut. Check that the nuts on the remaining Photo Eyes are tight.

Limit Switches Inspection

There are two Limit Switches on the C-5000. One is positioned on the Eject Guide Cylinder and the other is on the Top Test Ram cylinder. The switch on the Eject Guide cylinder only requires a visual check as the indicator light should be on when the guide is in the closed position (illustration 5). If the Eject Guide is in the closed position and the light is not on, replace the switch.



Illustration 5

To engage the light on the Limit Switch on the Top Test Ram cylinder it is necessary to pull the ram down. First, check the Manual Air Shut Off and insure that it is set in the “EXH” position. Next take a long flathead screw driver or other object to push the ram down. **NEVER PLACE HANDS INSIDE THE UNIT!** On the way down the magnet in the cylinder will cross the Limit Switch and the light will come on. (illustration 6) If the light never comes on, replace the switch.



Illustration 6

When the Top Test Ram is pushed all the way down, the Failure Alert Light will come on (see insert in illustration 7) and the Interface Panel will read fail. Simply depress the “Reset” button to clear this.



Illustration 7

Proximity Switch

Look under the unit base plate and confirm that the amber light is shining on the Proximity Switches (illustration 8). If the light is not on check the cable connection. If the connection is secure and there is no light, replace the Proximity Switch.



Illustration 8

Step 2

Check The Air Pressure

Go to the Manual Air Shut Off Valve and turn the knob to the supplied position. The face will read, "SUP." (illustration 8) At this point you should hear the unit cylinders will fill with air.



Illustration 8

Check the gauge on the Unit Filter/Regulator. The needle should be on the 85 psi mark. (illustration 9) If it is not, lift the black knob on top of the filter and turn left or right until the needle is on 85. Push the knob back down to lock it in place.



Illustration 9

Step 3

Run the Self Test

Depress the "Mode" button three time until the screen displays "Self Test Mode." (illustration 10) Depress and hold the "Enter" button down. All the cylinders will fire and the Cylinder Gauges will register.



Illustration 10

It is best to run the test at least 2 times. Once to check the air pressure on the Cylinder Gauges and the other to observe the cylinders. The "Self Test" can be run as many times as needed. After each test the readout will reset to the default which is the case count. (illustration 11) Depress the "Mode" button again three times to return to the "Self Test" and depress "Enter," the test will occur again.



Illustration 11

Run the test initially to check the air pressure to the test cylinders. The gauge on the left indicates the air pressure to the Bottom Test Ram cylinders; the gauge on the right indicates the air pressure to the Top Test Ram cylinder. Both gauges should read 45 PSI. (illustration 12) To adjust the air flow pull the knob on the top of the regulator up and turn right (increase PSI) or left (decrease PSI).



Illustration 12

After adjusting the air pressure run the self test again and observe that all of the cylinders have fired. In the event that one doesn't the red alert light will come on and the display will indicate which cylinder is not working (for example refer to illustration 13). Once that has been determined replace the cylinder and run the self test again.



Illustration 13