

CONNECTOR DETECTOR Instructions

INSTALLATION

Read all instructions before beginning; observe all cautions and instructions.

Use extreme caution when unpacking equipment; machine frame is top-heavy and can tip if not properly handled.

Machine is shipped with rollers for ease of initial placement in desired location. These must be removed before actual installation process begins.

1. Center machine (between rollers) - parallel to finish roller, approx. 3 ½ " from finish roller - on the exit side of the finish roller.
2. Set air gap by loosening all ½" bolts at the ends of horizontal sensor support frame and turning the nuts on the ½" threaded rods in the uprights to lower or raise a sensor bar.
3. Sensor support frames must remain parallel to each other and the out-feed rollers.
 - A. Open air gap between sensor bars to at least 2 ½".
 - B. Pass a straight, flat piece of 2x4 lumber through CD so it is resting on an out-feed roller on both sides of the CD.
 - C. Adjust lower sensor support frame up until the sensor bar is approx. 1/8" from lumber. (Fig #1)
 - D. Adjust top sensor support frame down until the sensor bar is approx. 1/8" from lumber. (Fig. #1A)
4. When proper 1 3/4" air gap is set, pass a "test truss" slowly through the CD. Fine tuning adjustments may be made at this time. (Fig #5)
5. Tighten all ½" bolts at the ends of the upper and lower sensor support frames and nuts on threaded rods when desired placement is reached. (Fig #2)
6. Determine placement of control box on right or left side, following wiring diagram included. Mounting brackets are located on both uprights. (Fig #3) Plug control box into approved 110-volt power source.
7. If auxiliary horn or light is used, knock-out plugs into the power source in the control box are located on the side of the control box. **NOTE:** *Power source in control box is for auxiliary horn or light use only.*

OPERATION

1. Turn power switch on control box to the “on” position. (Power can remain on, with the exception of during severe electrical storms) Unit is ready for use. (Fig #4)
2. When alarm/light indicates missing or grossly mis-aligned connector plate(s), observe zone indicated. Replace missing connector plates as needed.
3. Reset Connector Detector by pressing the reset button, and continue use, repeating operating steps 2 & 3 as needed.

SAFETY CAUTIONS

- “Emergency Stop” bar on the back side of the finish roller must be reinstalled on the outside of the Connector Detector to prevent injury.
- No attempt to replace plates should be made while the truss is still in the finish roller; fatal injury could occur.
- Local electrical codes must be observed for 110-volt power supply connection to unit.
- Standard finish roller speeds are 120-140 feet per minute. The Connector Detector is designed to detect missing and grossly mis-aligned plates passing through the unit at a rate of 90-150 feet per minute. Pulling or pushing at a slower or faster speed may result in false readings.
- The Connector Detector is designed to withstand normal weather conditions. Any ice buildup on feed rollers must be removed or prevented to insure truss remains in proper alignment with the CD.
- It is recommended a guide be installed before the finish roller to insure the truss passes through without striking the finish roller or the CD.
- Routine checks of all bolts, connections and air gap is recommended maintenance.

Fig #1



Fig 1A

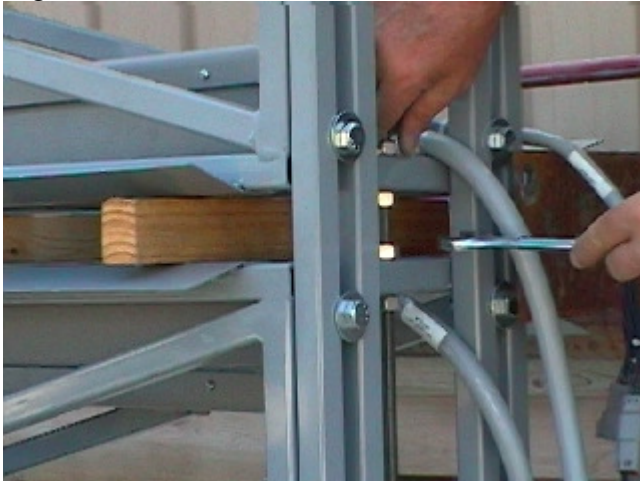


Fig #2



Fig #3



Fig #4



Fig #5

