

## 1.0 General

Determine which end of the furnace is causing the problem. You will be able to see the tray is not matching the height of the quartz tubes.

**Furnace Entrance.** The Quartz Rods mounted on the belt support tray should be aligned with the quartz tubes in the furnace chamber. Align the rods so the top of each rod is just above the tops of the respective chamber tube.

**Furnace Exit.** The Quartz Rods mounted on the belt support tray should be aligned with the quartz tubes in the furnace chamber. Align the rods so the top of each rod is just below the tops of the respective chamber tube



Side covers at furnace exit

### 1.1 To Remove side covers and stainless steel top covers:

1. Once you have identified the problem end, remove the side covers on both sides of the furnace by turning the release screws and lifting each panel up (See figure at right).

2. Then remove the stainless steel top covers on both sides by removing two nuts at the bottom and 1 screw at end of cover.



Top covers at furnace exit

### 1.2 To Adjust the belt support tray:

The Belt support tray can be adjusted by two screws on either side of the furnace where they are attached on the exit and entrance of the furnace.

1. Determine which end of the furnace is causing the problem. You will be able to see the tray rods do not align appropriately with the height of the quartz tubes (see VERTICAL ALIGNMENT OF THE BELT SUPPORT TRAYS above).

2. There are two adjustment screws on each end that must both be loose to adjust the tray (see figure at right).

3. If you can, hold on to a pulley on either side and gently pull up to see if the tray will move. If the tray does move, then you can adjust the position of the tray to align the tops of the quartz rods just above or below the chamber tubes. Then tighten the screws to keep the tray in place.



Adjustment screw location (furnace exit)

4. You may need an assistant to reach the nuts under the tray (as shown at right) so you can make sure the screws are tight.
5. After the tray is adjusted, reinstall the covers in the manner as they were removed.



Tray and adjustment screws and nuts