

Summary	Turbo Seal Insulated Door Panel Replacement				
Products Affected	Turbo Seal Insulated				
Key Word Tags	TSI, Panel, Replacement				
Tools/Equipment (If Required)	Forklift, Man Lift, Paint Pen or Sharpie, Razor Knife, 1/8" Punch, 1/4" x 2" Tek Screws with Fender Washers, 15' Ratchet Straps, Rivet Gun, Drill, Assorted Drill Bits, Sawzall				
Parts/Materials (If Required)	Assembly, Insulate Panel R1170339-0 Assy, Bottom Bar Insulated R1170340-X				
Related Media					
Author	M. Tomson, M. Burzlaff, Rev B M. Burzlaff	Issue Date	3/29/2012	Status	Active

Read Entire Bulletin Before Beginning Procedure

Note: Panel replacement will require 2 people and will take approximately 2-3hrs. If problems occur and replacement takes longer than 3 hrs.-call Tech Support immediately.

Panel removal procedures:

Before any prep or work is performed verify the packing list materials. Do not remove the panel from the plastic wrap at this time. Verify you have the proper panel width. Be very careful when removing the replacement panel. Save the shipping tube as it will be needed later in the panel exchange process.

Before panel removal, check counterweight clearance. Place the door into jog mode by holding the DOWN and STOP/RESET keys. Jog the door to the full closed position and check counterweight clearance from the top of the counterweight to the top of the side column. Approximately 2 feet of clearance is required to travel the door past the fully closed position during panel exchange. If you do not have enough clearance at this time, adjust your counterweight straps to gain clearance (mark your strap with a marker before adjusting as you will need to return the strap to its original position after panel exchange is completed).

Place your door into EMERGENCY JOG mode. **CAUTION!!** ALL safety devices and limit switches are ignored in this mode. To place the door into EMERGENCY JOG, enter parameters by holding the UP arrow and the STOP/RESET button. Scroll down to parameter 999 and enter 10. You will see a large S in the upper right hand corner of the display. Scroll down to reach parameter 980. Enter a value of 3. Exit Parameters by holding the STOP/RESET button. You are now in EMERGENCY JOG mode. If you're not familiar with navigating the System 3 or System 4 control please refer to the system 3 or 4 owner's manual.

Jog the door down slightly beyond fully closed to allow some slack in the panel above the top of the guides. Attach the existing panel to the header using the 1/4" x 2" tek screws with fender washers by physically pushing the panel against the header and driving tek screws through the panel at the lowest part of the header possible. (See Figures 1&2)

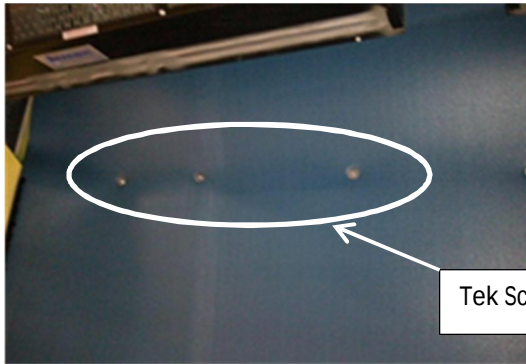


Figure 1

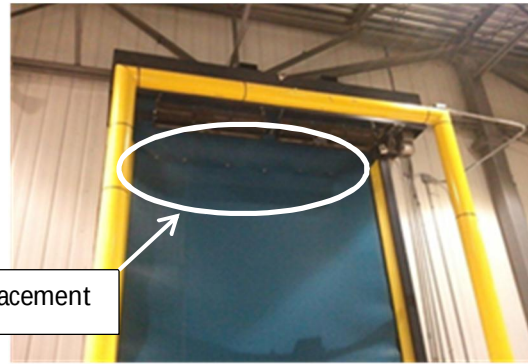


Figure 2

The old panel will serve as a temperature barrier while the exchange is being performed. Use ALL tek screws provided and space evenly. With the existing panel secured to the header you can now cut the panel off about three inches above your tek screws. Once the panel is cut the width of the opening you can now jog the door downward slowly to gain access to the mounting strap on the drum. You will need to position the drum at the top center of the head (*be cautious NOT to over rotate the drum past the center point*). (See Figure 3)



Figure 3

CAUTION

The door main electrical supply must be locked out and tagged out before continuing this procedure.

Now that the drum is in the top center position, use a marker or a paint pen and mark on the drum itself where your panel is located at this time (*the full length of the drum*). Remove the portion of the existing panel that is attached to the drum by drilling and removing the heads of the rivets that are securing the panel and mounting strap with a 1/4" bit. (See Figures 4&5)



Figure 4



Figure 5

Be careful NOT to drill past the rivet into the drum itself. You may have to gently pry between the mounting strap and the panel to remove it, being careful not to bend the mounting strap. (See Figure 6) With the mounting strap removed you can now remove the remainder of your existing panel from the drum and save for reference later. (See Figure 7) Now you will need to use your 1/8" punch and drive the remaining portion of the rivets into the drum. (See Figure 8) We are now ready to prep and install the replacement panel.



Figure 6

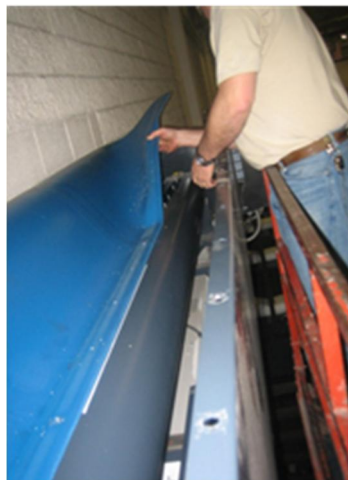


Figure 7

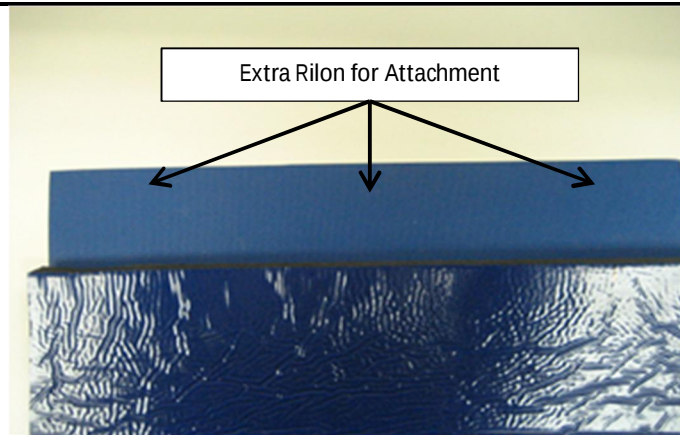


Figure 8

Prep and installation of the replacement panel:

Use the cut off portion of the old panel to locate mounting holes on the new panel. This will also be needed to make sure we mark the new panel square for the installation.

Carefully remove the new panel from the plastic wrap on a clean and debris free floor space and roll off from the top of the panel two feet more material than you have of the old cut off. (EXAMPLE: *If you have 4 Feet of cutoff material you will need 6 feet of the new material to work with*). Make sure the new panel material is flat and straight on the floor. Lay the cutoff material on top of the new panel and square edges and top portion. (Take note that the new panel has approximately an EXTRA 12" of rilon material for easier attachment. Make sure the rilon part of the new panel is facing the freezer side and the foam to the warmer side). See below.



Mounting holes will be located at the top edge of the panel. Once aligned, you can transfer mounting hole locations from the old to the new panel with a marker. After marking hole locations, check with your mounting strap that your holes are accurate before drilling. Drill the hole locations with a 3/16" drill bit.

Roll the panel back up square and tight. Cut the shipping tube end to end in half to create a cradle for the new panel. Lay the new panel inside half of the shipping tube, leaving about 5 feet of the end material loose to work with during the mounting process. Place the cradle and panel on a pallet to lift to the bottom of the door head. Lift the panel up as close to the head or blower units as possible leaving room to roll the panel onto the drum without contacting anything. Once the cradle and panel are lifted into place, feed the mounting portion of the new panel up into the head between the idler pulley and the drum (*NOT behind the idler pulley at this time, it is easier to jog/roll the panel up and re-feed it behind the idler pulley once it is attached*). Locate the panel and mounting strap on the drum lining up mounting holes. You can use your ratchet straps to hold the panel in place once you have it properly located. (See Figure 9&10)

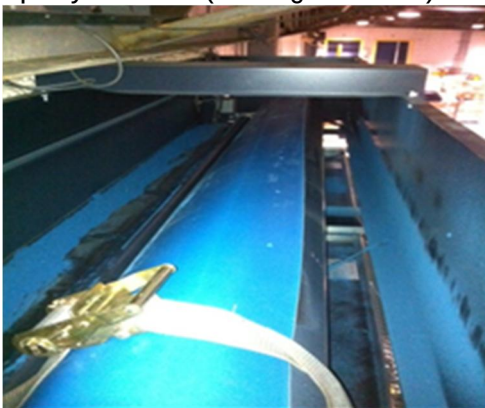


Figure 9



Figure 10

Use 1 ratchet strap on the left side of the drum, 1 center and 1 right. Route ratchet straps around the drum and the bottom of the cradle to keep from moving during mounting. Be careful not to over tighten the ratchet straps as to not damage the panel or mounting strap. When you have the mounting holes properly lined up, use the nails that were sent and push through the mounting strap, panel, and into the drum to line up ALL holes. Remove the nails one by one and replace with rivets and crimp. Start from the center of the drum and work your way to the end of the drum. Alternate from side to

side every couple of rivets. This will help keep the panels square. (See Figure 10) Once all rivets are in place and crimped down, you can now remove your ratchet straps. Lower the pallet slowly to unroll the new material being careful not to catch on anything that might be close to it.

Reconnect power to the control. Place the door back into EMERGENCY JOG by entering parameters. Scroll down to parameter 999 and enter 10. Scroll downward to reach parameter 980. Enter a value of 3. Jog the door upward slowly to just above the guides. Remove the old panel. Lift the panel up and behind the idler pulley and drop into place. Jog the door down to get the bottom edge to a workable height to install the bottom bar, using door centerline and bottom bar centerlines as references. (Figure 11) Reinstall the bottom bar on the panel in the same manner it was removed, remembering to reinstall end tab insert and plastic screw about 1 ½" from the corner. (Figure 12)

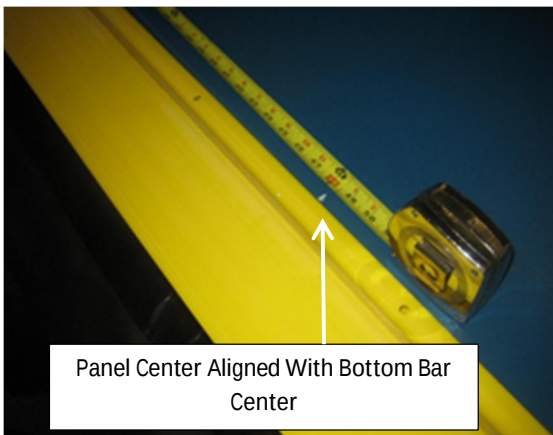


Figure 11

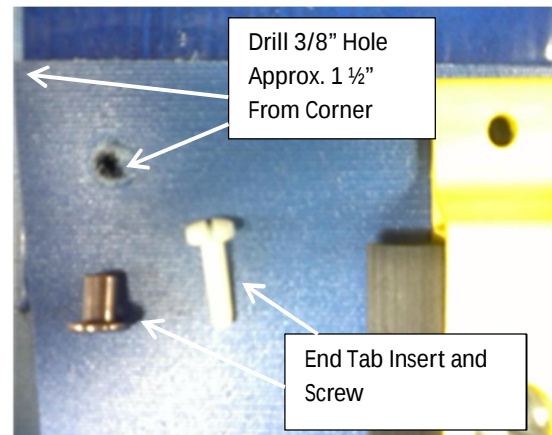


Figure 12

Once the old panel is down, lower the new panel into the guides and to the closed position. Return your counter weight straps to their normal operating positions if moved. Replace side column covers.

Enter parameters and reset limits by scrolling up to parameter 210. Enter a value of 5. Exit Parameters. Tap STOP/RESET button to begin setting limits. Hold the down button to set the lower limit then hold the STOP/RESET button to confirm lower limit setting. Hold the up arrow to reach the top limit and hold the STOP/RESET to confirm its position. If the controller is system4, the door will now go through several cycles automatically to recalibrate itself. If it is system3 this will need to be done manually. Keep clear of all photo-eyes and motion sensors during this calibration period. When calibration is finished the door will automatically place itself into run mode. Shim panel as needed for straight and true panel movement. See accompanying Service Bulletin 196 for shimming procedures.

If you have any questions contact Rytec Technical Support at 1-800-628-1909.