SHIVVERS

INSTALLATION INSTRUCTIONS

for

PERFORMANCE PACKAGE
ENTRANCE COLLAR
&
BURNER/FAN TRANSITION
C-FANS

74C-001A ENTRANCE COLLAR
565D-001A TRANSITION

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The Entrance Collar (74C-001A) and Transition (565D-001A) allow the heated air from the fan and burner to enter the chamber beneath the perforated floor (plenum). With properly even and balanced temperature in the plenum, efficient and quality grain drying will occur. This Entrance Collar and Transition are designed to give an optimum temperature gradient in the plenum and eliminate severe hot and cold spots.

**ENTRANCE COLLAR**

See Installation Instructions, P-11422, for recommended fan/burner positioning and layouts for single and multiple fans on a bin.

Cut a hole in the side of the bin centered over the fan/burner position approximately 11-11/16" high by 61-1/2" long.

Loosen the four nuts that hold the Clamps from the top of the Entrance Collar (74C-001A). Slide the four Clamps back and remove the Collar Fitting Band (74-012P).
From the 565D-001A Transition parts box find the 74-016A Bin-Ent Hardware Sack, this will contain all the hardware necessary to secure the Entrance collar to the Bin.

Position the Entrance Collar in the cut opening. Mark and drill eight 5/16" diameter holes in the side of the Bin. Use the 5/16"X 1" bin bolts, washers and nuts to secure the Collar (Longer 2.5" bolts are also provided if necessary).

NOTE: Use the silicon sealant (C-6123) provided to seal completely around the Collar before tightening the bolts.

Form the Fitting Band, previously removed from the Entrance Collar, to the outside curvature of the Bin. Place it on the top of the Entrance Collar so that it seals the crack between the Bin and the Collar. Cut off any excess length of the Fitting Band. Mark and drill through the Bin wall 5/16" holes to mount the Band. Use the sealant to seal any air gaps. Slide the four Clamps on the top of the Entrance Collar up against the Fitting Band and tighten the nuts to secure the Band in place. Use the 5/16" bin bolts to finish mounting the Band to the Bin.
Slide in Clamps and tighten down nuts.
TRANSITION

From the 565D-001A Transition Box locate the Bottom piece (565-023P). Slide the Bottom inside the Entrance Collar and fasten with ¼"X5/8 bolt, lock washer and flat washers (hardware provided in sacks in the 565D box) into the U-nuts on the bottom piece of the Entrance collar.

Take the Transition Front (565-036P) piece and clip six ¼" U-Nuts onto the bottom flange. Slide the Front piece under the front of the Bottom piece and fasten.
Place the Top Transition piece on the top of the Entrance Collar. Fasten with the ¼" bolts, lock-washers, and flat washers through the mating U-nuts on the Entrance Collar. Position the upper end of the top piece so that it lines up with the top of the Front piece. Using the U-nuts, "sandwich" the flange of the Top piece and Front piece inside the U-nut clip. Fasten using ¼"bolt and lock-washer only.

Slide U-nuts onto the remaining holes on the sides of the Top, Bottom and Front pieces.
Place the Damper Door inside the Transition so that the end of the rods stick out from the sides. The end with the threaded stud should be on the right side, as facing the bin.

The Left and Right Side pieces (565-025P & 565-024P) fasten directly to the edges with the U-nuts using the ¼"bolts, lock-washers, and flat washers. For both Sides place the riveted right angle flange inward toward the Damper Door.
Locate the 565-037A Ent-Trans-Brnr Hardware Sack. This will contain all the hardware needed to fasten the Transition to the Entrance Collar and the Transition to the Burner.

Place the two Junction Plates (565-011P) on each end of the Entrance Collar so that the Plate will clamp the flange on the Transition Side. Use the ¼" carriage bolts, flat washers, lock-washers, and nuts to secure each side.

Move the Burner Housing up against the Front Transition piece. Take the 5/16" bin bolts and fasten through the slotted holes, seventeen places.
Screw the Damper Counterweight Rod (565-033P) onto the \( \frac{1}{2}'\)-13 threaded bolt on the end of the Damper Door. Check the operation of the Door and Counterweight to ensure that no obstruction will interfere with its range of motion. When the Fan is on, the Door should open (Counterweight up). The Door should automatically go in the closed position (Counterweight down) when the Fan is off. If Door won’t close when fan is off, slide Counterweight (565-038P) with Setscrew onto Damper Counterweight Rod (565-033P) and tighten Setscrew (F-1007-22). Position Counterweight just high enough so door closes every time.

Slide the Transition Lid (565-022P) into the flanges on the Top piece. Use the \( \frac{1}{4}'\) hardware to secure the Lid through the U-Nuts.
Check for significant air leaks and apply additional sealant if necessary. For best results apply sealant on the inside of the Transition.