

290156

R020225

ABOVE FLOOR AERATION SYSTEM ASSEMBLY INSTRUCTIONS

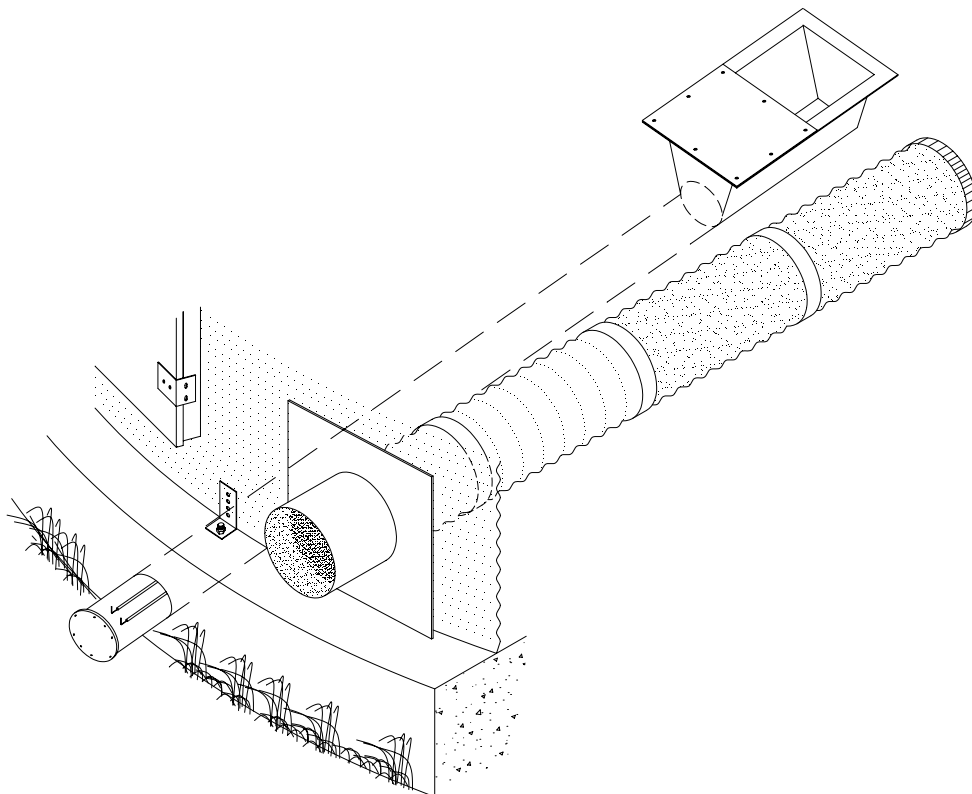




TABLE OF CONTENTS

WARNING TO CUSTOMERS AND CONTRACTORS**Error! Bookmark not defined.**

TABLE OF CONTENTS.....3

 PLACEMENT VARIATIONS.....4

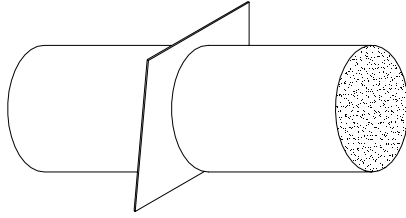
 TRANSITION ENTRANCE ASSEMBLY5

 DUCT ASSEMBLY6

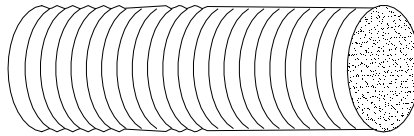
 USING A SWEEP AUGER IN AN AERATION EQUIPPED BIN7

 AERATION FAN USE7

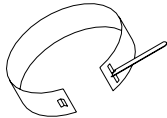
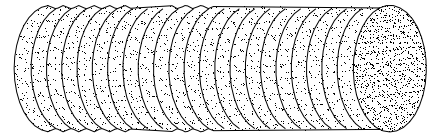
ENTRANCE TRANSITION



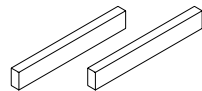
PLAIN DUCT



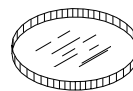
PERFORATED DUCT



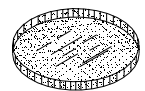
DUCT CLAMP



WEATHER STRIPPING



TRANSITION END CAP

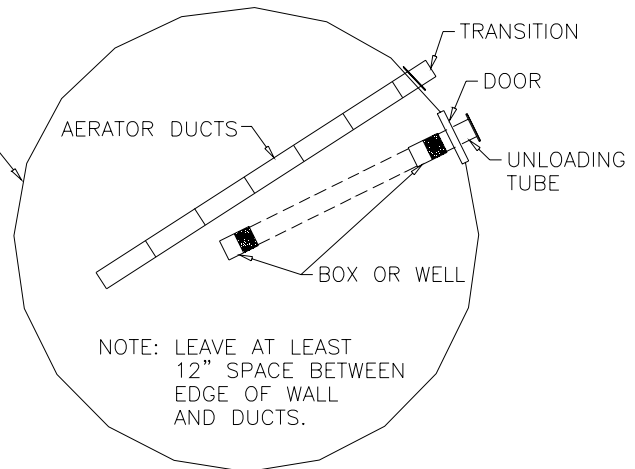


PERFORATED END CAP

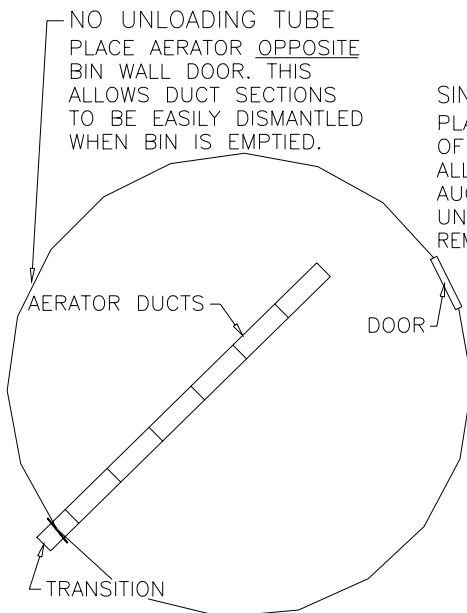
PLACEMENT VARIATIONS

TOP VIEWS OF BIN BASE

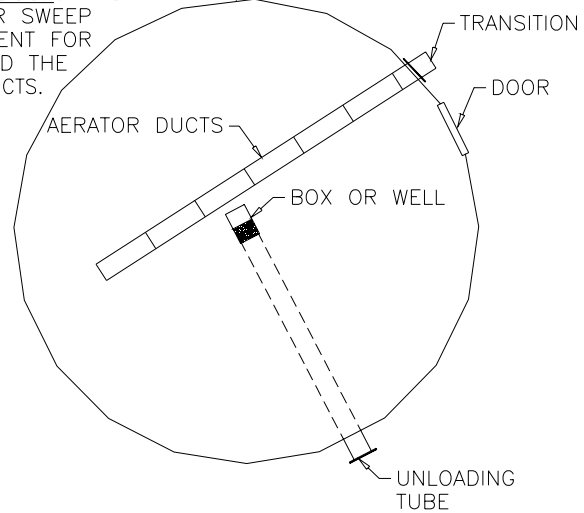
DOUBLE BOX UNLOADING TUBE
PLACE AERATOR ON RIGHT SIDE OF TUBE. THIS ALLOWS EASIER SWEEP AUGER MOVEMENT FOR UNLOADING AND THE REMOVAL OF DUCTS.
TRANSITION SHOULD BE APPROXIMATELY 18 TO 24 INCHES FROM THE UNLOADING TUBE.



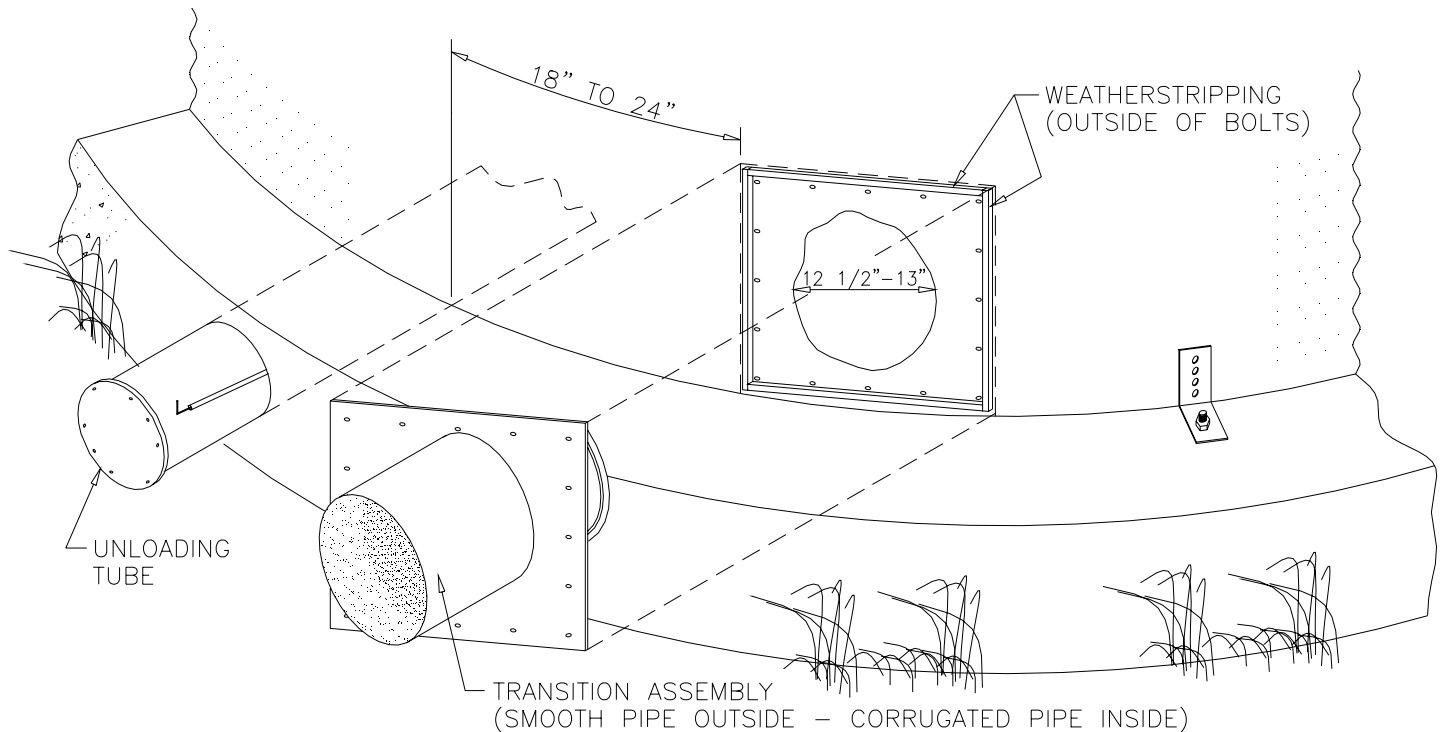
NO UNLOADING TUBE
PLACE AERATOR OPPOSITE BIN WALL DOOR. THIS ALLOWS DUCT SECTIONS TO BE EASILY DISMANTLED WHEN BIN IS EMPTIED.



SINGLE BOX UNLOADING TUBE
PLACE AERATOR ON RIGHT SIDE OF BIN WALL DOOR. THIS ALLOWS EASIER SWEEP AUGER MOVEMENT FOR UNLOADING AND THE REMOVAL OF DUCTS.



TRANSITION ENTRANCE ASSEMBLY



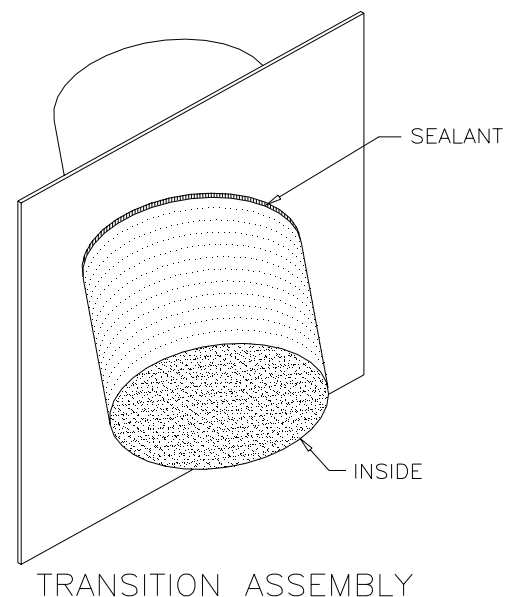
Locate the transition assembly according to the diagram on Page 1 that corresponds to your bin. (A double box unloading tube is shown above with correct installation dimensions.)

The transition collar has been welded to the transition pipe at an angle so that the duct will cross the bin floor approximately parallel to the bin wells and unloading tube. Remember to place the transition assembly on the right hand side of the unloading tube and/or door of the bin.

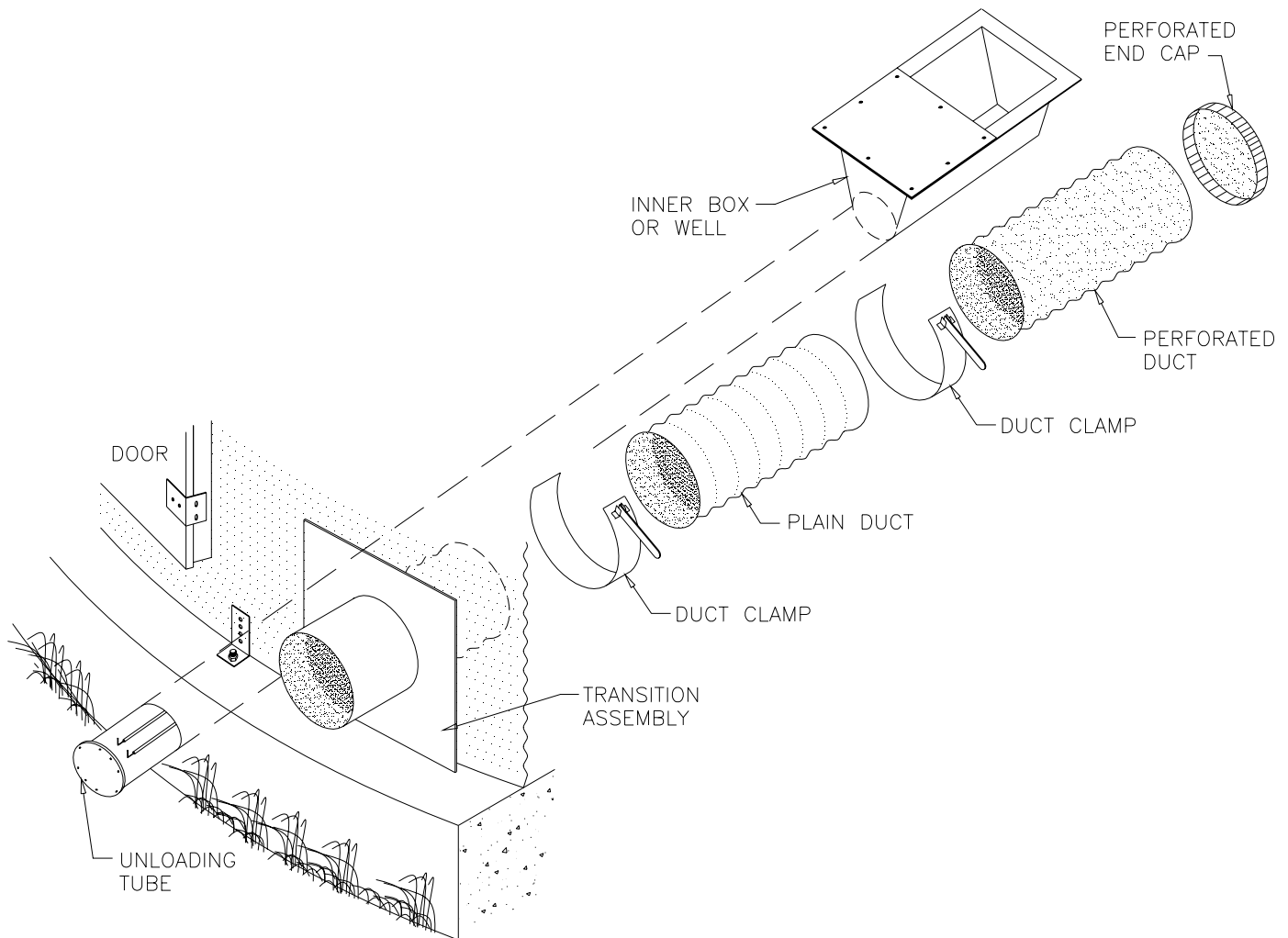
Cut a 12 ½" to 13" diameter hole through the bottom wall sheet of the bin. Try to maintain sufficient clearance between the transition and the anchor clips.

Apply a bead of sealant around the transition collar where it is welded to the transition pipe. Push the transition assembly through the hole from outside the bin.

Drill top corner holes through transition collar and bin. Loosely bolt transition to bin wall. Install the four (4) pieces of neoprene weather stripping behind the transition collar. Complete drilling and bolting of the collar to the bin wall. Only drill and bolt collar where it is in contact with the corrugation.



DUCT ASSEMBLY



Begin assembly inside the bin by clamping the plain duct to the transition assembly and continue likewise with the remaining perforated ducts. All ducts meet flush with one another. The duct clamp can then be centered and securely tightened with the clamping lever. Keep the duct away from the outer bin well at least eighteen inches (18") (on three well unloading tube bins). Keep the duct approximately twelve inches (12") away from the inner well (on all bin equipment with unloading tubes). This space will allow the sweep auger drive assembly adequate clearance for movement.

After all ducts are in place and tightened, place the perforated end cap over the end of the last duct. Place the solid end cap over the transition assembly opening until the fan is mounted.

NOTE: CHECK BIN DURING INITIAL FILLING WITH GRAIN (20 TO 30 BUSHEL) TO SEE IF CASCADING SPOUT OF GRAIN HAS MOVED THE AERATION PIPE OUT OF ALIGNMENT.



USING A SWEEP AUGER IN AN AERATION EQUIPPED BIN

This applies only for bins with unloading tubes. Place the sweep auger into the bin at the door and allow it to clean one-half of the bin. When the sweep auger reaches the aeration ducts farthest from the door, shut it off. Unclamp the aeration ducts and pull them apart. Place clamps and ducts on the cleaned portion of the floor.

Start the sweep auger again and allow it to clean the rest of the bin. The sweep auger may then be removed from the bin and the aeration ducts reassembled.

AERATION FAN USE

Operate the aeration fan in each bin for a sufficient amount of time to cool the center core of grain. This will require at least two weeks for a 10,000 to 12,000 bushel bin. The larger the bin, the longer it will take to cool the grain. The outside temperature will also determine the amount of time required for cooling. Even during warm summer days (harvest time), aeration will have a beneficial cooling effect.

Operate aeration fans for an average of one week per bin at harvest time. During the fall months, when outside temperatures are cooler, operate the fan again for one week in each bin.

Each bin of grain should be aerated again in the spring. This will warm the grain to a temperature close to the average outside temperature and avoid condensation inside the bin. Various types of bin thermometers or grain temperature measuring devices are available to determine temperatures inside the bin.

When filling bins with crops that are above the safe storage moisture content (for example: 14% moisture wheat), operate the aeration fans for longer periods of time. As long as temperatures are above freezing, the condition of the grain will not be harmed by extended use of the aeration fan.

IN SUMMARY, the general rule of thumb is for an average aeration operating time of two weeks for each bin. Size of the bin and initial moisture content may increase or decrease the amount of time required to cool the grain to safe storage condition.



SCAFCO Grain Systems Company

6200 E. Main Avenue

PO Box 11215

Spokane, WA 99211-1215, USA