HEAT RECLAIMER ASSEMBLY INSTRUCTIONS

1200 SERIES GRAIN DRYERS



PNEG-361

INSTRUCTIONS FOR ASSEMBLY OF THE HEAT RECLAIMER PACKAGE

General

The HEAT RECLAIMER PACKAGE has been designed to reduce the amount of heat loss to the atmosphere and to recycle this heat in order to help reduce fuel consumption.

Inlet Box Support Angles

To install the *INLET BOX SUPPORT ANGLES*, start with the *INLET BOX SUPPORT CHANNEL (D01-0694)*. Bolt these channels using parts *S-3949*, *S-248*, and *S-4663* to the *DRYER FAN SUPPORT*. Six bolts are to be used to anchor each channel. A 7/16" hole should be drilled on the *DRYER FAN SUPPORT* for the top two bolts of the channel. The *INLET BOX TOP SUPPORT ANGLE (D51-0139)* should be installed across the top of the two *INLET BOX SUPPORT CHANNELS* using the slots provided. Align this piece so that the flange with the holes is up and to the front of the assembly.

Hardware Notes

All HEAT RECLAIMER COMPONENTS should be bolted together using the 5/16" WHIZ BOLTS and NUTS included in the HEAT RECLAIMER HARDWARE PACKAGE.

Inlet Box Assembly

Mount the *INLET BOX BACK PANELS* (*D51-0225*) to the front of the dryer beginning at the top of the *INLET BOX SUPPORT CHANNELS* and working down. Two *INLET BOX BACK PANELS* are included in the package. These panels overlap each other at the centerline of the fan. If the dryer is a two fan model, install the *INLET BOX BACK PANEL FLASHING PLATE* (*D01-0698*) to fill the opening at the top of the *INLET BOX BACK PANELS*.

Mount the INLET BOX SIDE PANELS (D51-0135 & D51-0136) to the INLET BOX BACK PANELS and the INLET BOX SUPPORT CHANNELS.

Mount the INLET BOX TOP (D51-0163), BOTTOM (D51-0137), and FRONT PANELS (D51-0144 & D51-0230) to the rest of the INLET BOX ASSEMBLY.

Mount the INLET BOX FRONT SUPPORT ANGLE (D51-0153) and the FRONT SUPPORT BRACES (D51-0154) to the front lower edge of the INLET BOX ASSEMBLY. Two 7/16" HOLES should be drilled in the DRYER FAN SUPPORT to mount the FRONT SUPPORT BRACE. These holes are not critical in mounting and can be marked for drilling when the FRONT SUPPORT BRACE is mounted to the FRONT SUPPORT ANGLE.

NOTE: The inlet box should be centered on the DRYER FAN SUPPORT. **See drawing number D01-0616 for reference on assembly.**

Side Duct Assembly

The SIDE DUCT ASSEMBLY can be completed on the ground or in place on the dryer. Assemble the SIDE DUCT CORNER by bolting the SIDE DUCT FRONT CORNER (D51-0215), SIDE DUCT BACK CORNER (D51-0216), SIDE DUCT CORNER TOP (D51-0219 RH, D51-0220 LH), SIDE DUCT CORNER BOTTOM (D51-0217 RH, D51-0218 LH), and three SIDE DUCT PANELS (D51-0212) together with the flanges out.

Assemble the TRANSITION DUCT by bolting the TRANSITION PANELS (D51-0211 RH, D51-0210 LH), SIDE DUCT TOP (D51-0213), SIDE DUCT BOTTOM (D51-0214), and two SIDE DUCT PANELS (D51-0212) together with the flanges out.

Keep the bolts on this assembly loose, so that it can be pulled into place later on. In this assembly the tops fit over the side panels, and the side panels fit over the bottom panels.

See drawing number D01-0615 for reference on assembly.

Transition Column Assembly

The TRANSITION COLUMN ASSEMBLY is attached to the first two columns on the fan side of the dryer.

Mount the VENT SUPPORT PLATE (D51-0195) to the DRYER COLUMN with the 3/8" holes and with the slot side out. The holes on both sides of the VENT SUPPORT PLATE should line up at the bottom as mounted on the dryer. The VENT SUPPORT PLATE mounts to the top holes on the DRYER COLUMN SIDE SCREEN SHEET on both sides of the first DRYER COLUMN.

Mount the LARGE AND SMALL TRANSITION PANELS (D51-0180 LH, D51-0181 RH, D51-0182 RH, D51-0183 LH) and the TRANSITION VENT PANELS (D51-0187) to the VENT SUPPORT PLATES with the flanges pointing to the dryer. The top bolt hole on the joint where the two TRANSITION PANELS bolt

together should go into the top slot on the *VENT SUPPORT PLATE* toward the rear of the first dryer column.

Mount the TRANSITION VENT PANELS (D51-0187) to the bottom of each TRANSITION PANEL and bolt together.

Mount the TRANSITION REAREND PANEL (D51-0189) to the TRANSITION VENT PANELS and the DRYER COLUMN JOINT.

Mount the FRONT HORIZONTAL SUPPORT ANGLE (D51-0197) and the FRONT HORIZONTAL SUPPORT STRAP (D51-0198) to the first gusset leg of the dryer.

Mount the HORIZONTAL SUPPORT ANGLE (D51-0126) and the COLUMN PANEL BRACE (D51-127) to the next two gusset leg.

Mount the SMALL OUTER TRANSITION PANEL (D51-0201 RH, D51-0202 LH) to the HORIZONTAL SUPPORT ANGLE and to the TRANSITION REAREND PANEL.

Mount the LARGE OUTER TRANSITION PANEL (D51-0199 RH, D51-0200 LH) and the corresponding HORIZONTAL SUPPORT ANGLES.

Mount the TRANSITION ROOF PANEL (D51-0184) to the each of the TRANSITION PANELS.

Mount the LOWER INNER PANEL (D61-0248) and the TRANSITION FRONT END PANEL (D51-0188 LH, D51-0190 RH) to fill in the front of the transition bottom.

When this assembly is complete, bolt the SIDE DUCT ASSEMBLY and the TRANSITION DUCT ASSEMBLY to the TRANSITION COLUMN ASSEMBLY.

NOTE: If the assembly does not seem to line up, loosen the bolts to allow the SIDE DUCT ASSEMBLIES to flex into place.

See drawing number D01-0618 for reference on assembly.

Column Assembly

Mount the HORIZONTAL SUPPORT ANGLE (D51-0126) and the COLUMN SUPPORT BRACE (D51-0127) to each gusset leg from front to back.

Mount the COLUMN PANEL BRACKET (D51-0171) to each dryer joint using the 2nd, 3rd, and 4th bolts up from the bottom on the DRYER COLUMN SIDE SCREEN.

Mount the COLUMN PANELS (D51-0118) to each COLUMN PANEL BRACKET and to the HORIZONTAL SUPPORT ANGLE along the dryer side.

Bolt each panel together.

Mount the LOWER INNER PANEL and the LOWER REAREND PANEL (D51-0117 LH, D51-0172 RH) at the rearend of the dryer to fill in the back of the COLUMN PANEL ASSEMBLY.

See drawing number D01-0612 for reference on assembly.

Air Access Door Assembly

Mount the SQUARE ACCESS DOOR ANGLES (D01-0395 SIDE, D01-0396 TOP/BOTTOM) to the square holes formed by the INLET BOX FRONT PANELS. Mount the OPERATOR'S DOOR HINGE BRACKET (D31-0161) to the top of the square holes formed by the INLET BOX FRONT PANELS.

Mount the OPERATOR'S DOOR HINGES (D31-0296, D31-0297) to the SQUARE REAR ACCESS DOOR (D01-0394) using the 0.25" NUTS and BOLTS (S-1101 & S-1102).

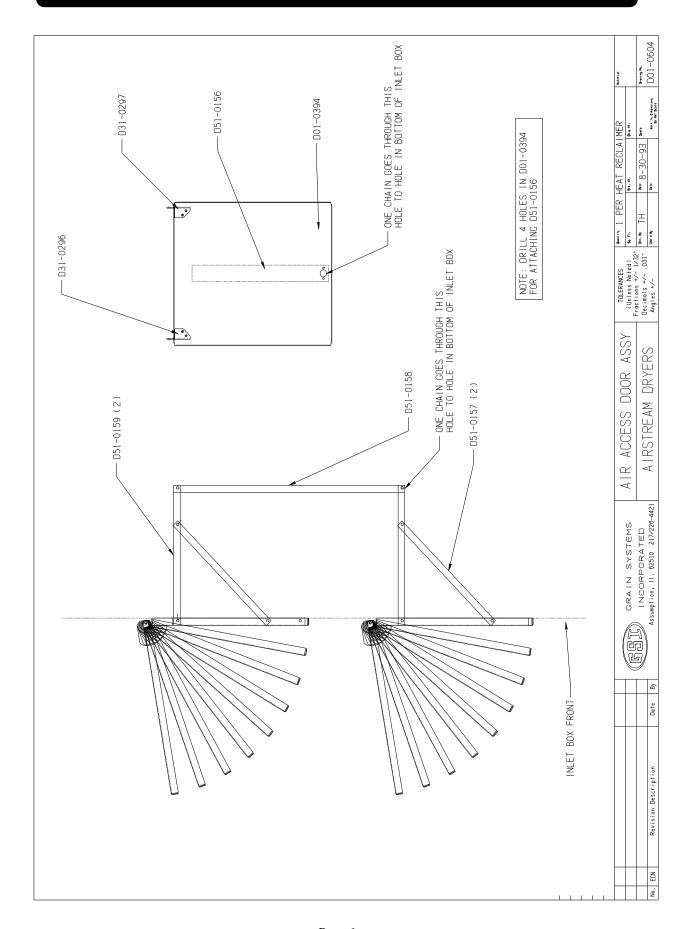
Mount the door to the hinge bracket using the 5/16" BOLTS and LOCKNUTS (S-4276 & S-5220).

Assemble the LINKAGE MECHANISM (BLK-10049, D15-0156, D51-0157, D51-0158, D51-0159, D51-0165, & S-4318) according to the drawings number **D01-0604**.

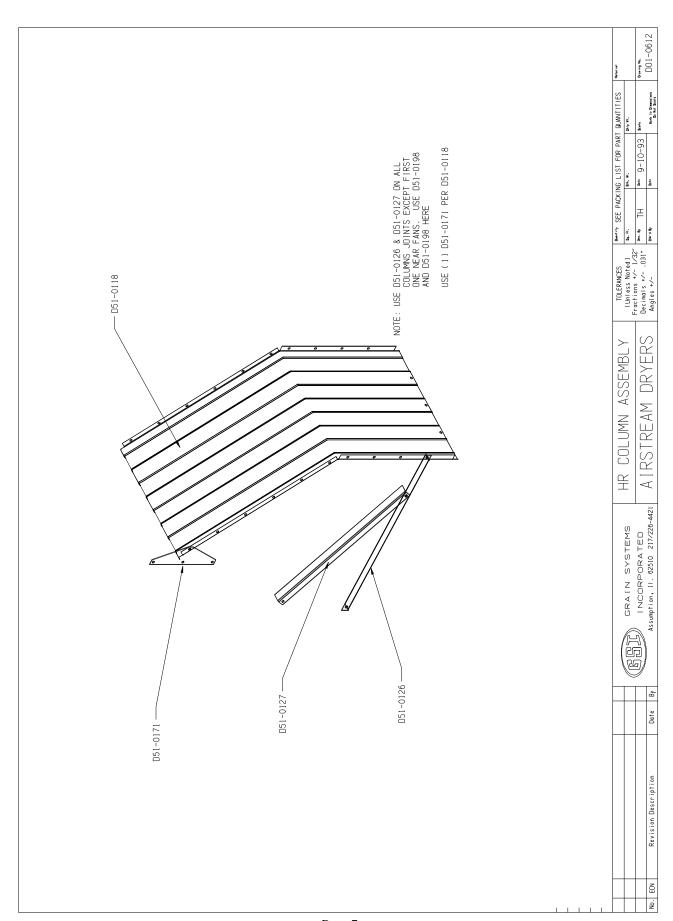
See drawing number D01-0604 for reference on assembly.

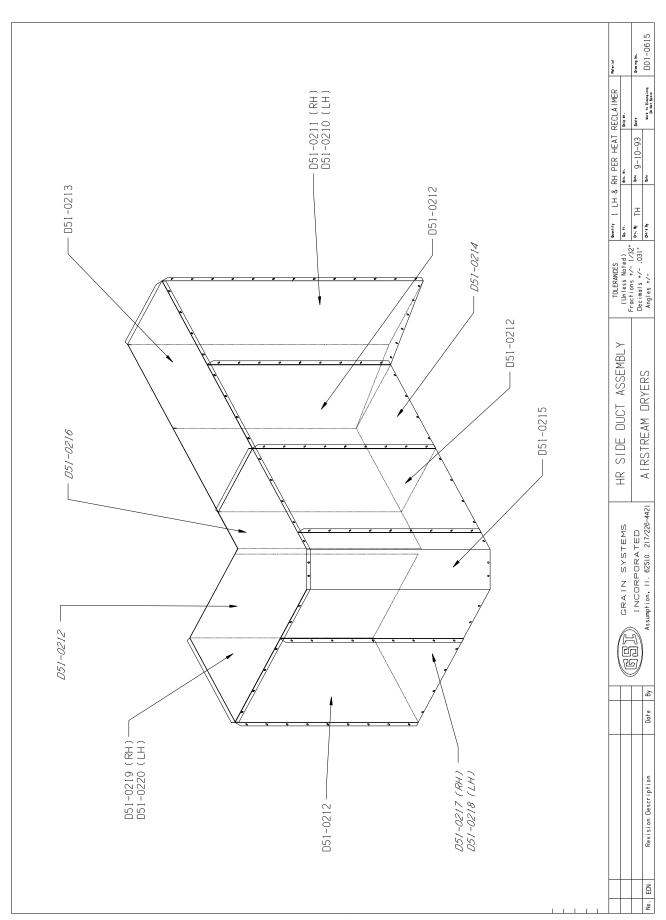
Decals

The DECALS (D01-0614) should be centered on the side of the INLET BOX ASSEMBLY.



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