



# COMMUNITY NEST SHINGLE-TOP INSTALLATION INSTRUCTIONS

990120  
SHEET 1  
REV. -

FOR A NEW VAL-CO SHINGLE-TOP COMMUNITY NEST INSTALLATION USE THESE INSTRUCTIONS AS A SUPPLEMENT TO THE 990004 COMMUNITY NEST MANUAL, WITH THESE INSTRUCTIONS REPLACING THE FOLLOWING SECTIONS IN THE MANUAL:

**2.8 SUB-ASSEMBLE - NEST SUB-ASSEMBLIES**  
**3.16 EXPELLER DRIVE UNIT CONTACTOR PLATE ASSEMBLY**  
**3.17 EXPELLER DRIVE UNIT CONTACTOR BOX CONTROLS**  
**3.18 EXPELLER DRIVE UNIT DIVIDER WALL AND REAR PANEL ASSEMBLY**  
**3.20 EXPELLER DRIVE UNIT FRONT PANEL ASSEMBLY**  
**4.3 NEST ASSEMBLY - RIDGE CAP SUPPORT RAIL/RIDGE CAP/ANTI-PERCH FLAT BAR**  
**4.7 NEST ASSEMBLY - TOP**  
**5.2 WALL PANEL ASSEMBLIES**

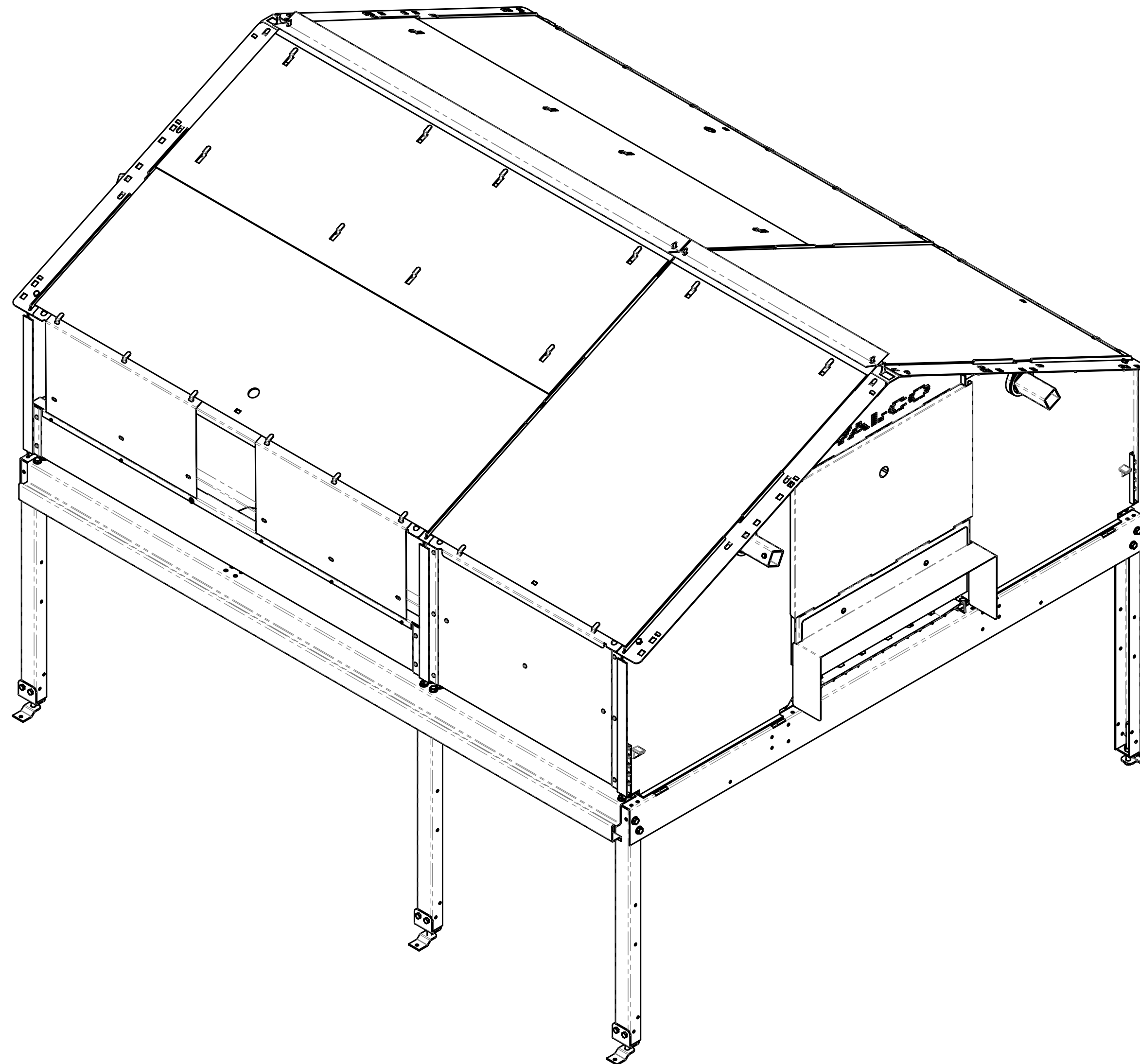
**OR**

TO RETROFIT AN EXISTING VAL-CO COMMUNITY NEST WITH SHINGLE-TOP PARTS, REMOVE THE FOLLOWING PARTS:

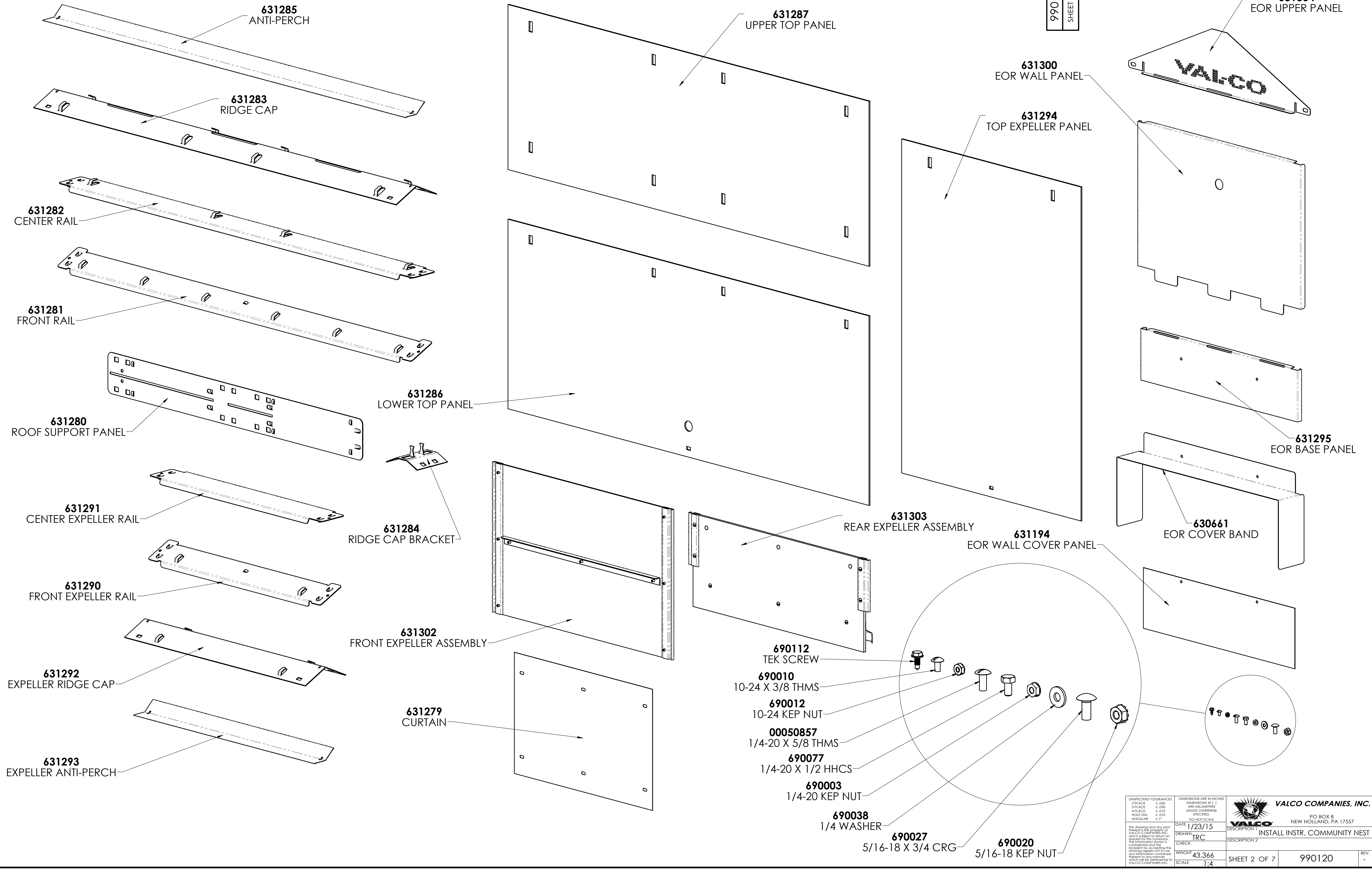
**NEST TOPS**  
**RIDGE CAPS**  
**RIDGE CAP SUPPORTS & HARDWARE**  
**NEST TOP ANGLE SUPPORT BRACKETS & HARDWARE**  
**END OF ROW WALL PANELS**

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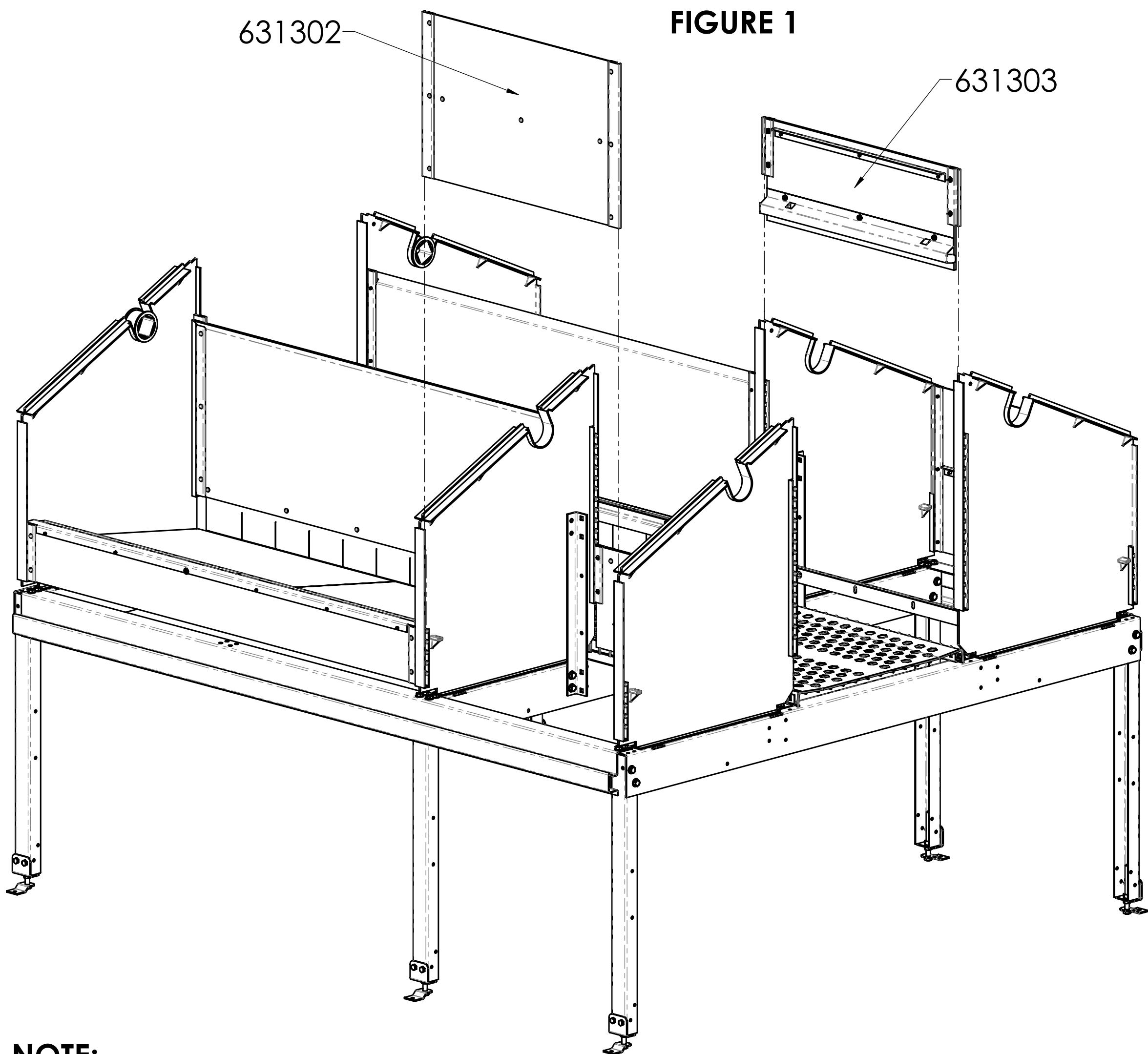
THE INSTRUCTIONS BELOW (FIG.1) REPLACE THE FOLLOWING SECTIONS IN THE MANUAL:

**3.18 EXPELLER DRIVE UNIT DIVIDER WALL AND REAR PANEL ASSEMBLY**  
**3.20 EXPELLER DRIVE UNIT FRONT PANEL ASSEMBLY**

631302 FRONT & 631303 REAR EXPELLER ASSEMBLIES ARE SUPPLIED FULLY ASSEMBLED.

INSERT EACH ASSEMBLY INTO THE "L" CHANNEL SLOTS OF THE DIVIDER WALLS THE SAME WAY THAT THE STANDARD NEST BOX FRONTS AND BACKS ARE ASSEMBLED.

BE SURE TO INSERT THE REAR EXPELLER ASSEMBLY BEFORE ATTACHING THE EXPELLER DRIVE UNIT TO THE FRAME. IF THE EXPELLER DRIVE UNIT IS ATTACHED TO THE FRAME BEFORE THE REAR EXPELLER ASSEMBLY IS INSERTED INTO THE DIVIDER WALLS, THEN THE "L" CHANNELS WILL HAVE TO BE DISASSEMBLED FROM THE PLASTIC PANELS IN ORDER TO FIT THE FULL EXPELLER ASSEMBLY IN UNDER THE EXPELLER DRIVE UNIT.



**FIGURE 1**

**NOTE:**

DIVIDER WALL AND FRONT & REAR EXPELLER ASSEMBLIES ARE HIDDEN FROM ONE SIDE OF VIEW IN FIGURE 3 TO SHOW HOW CONTACTOR BOX AND EXPELLER DRIVE UNIT ARE ATTACHED TO THE FRAME.

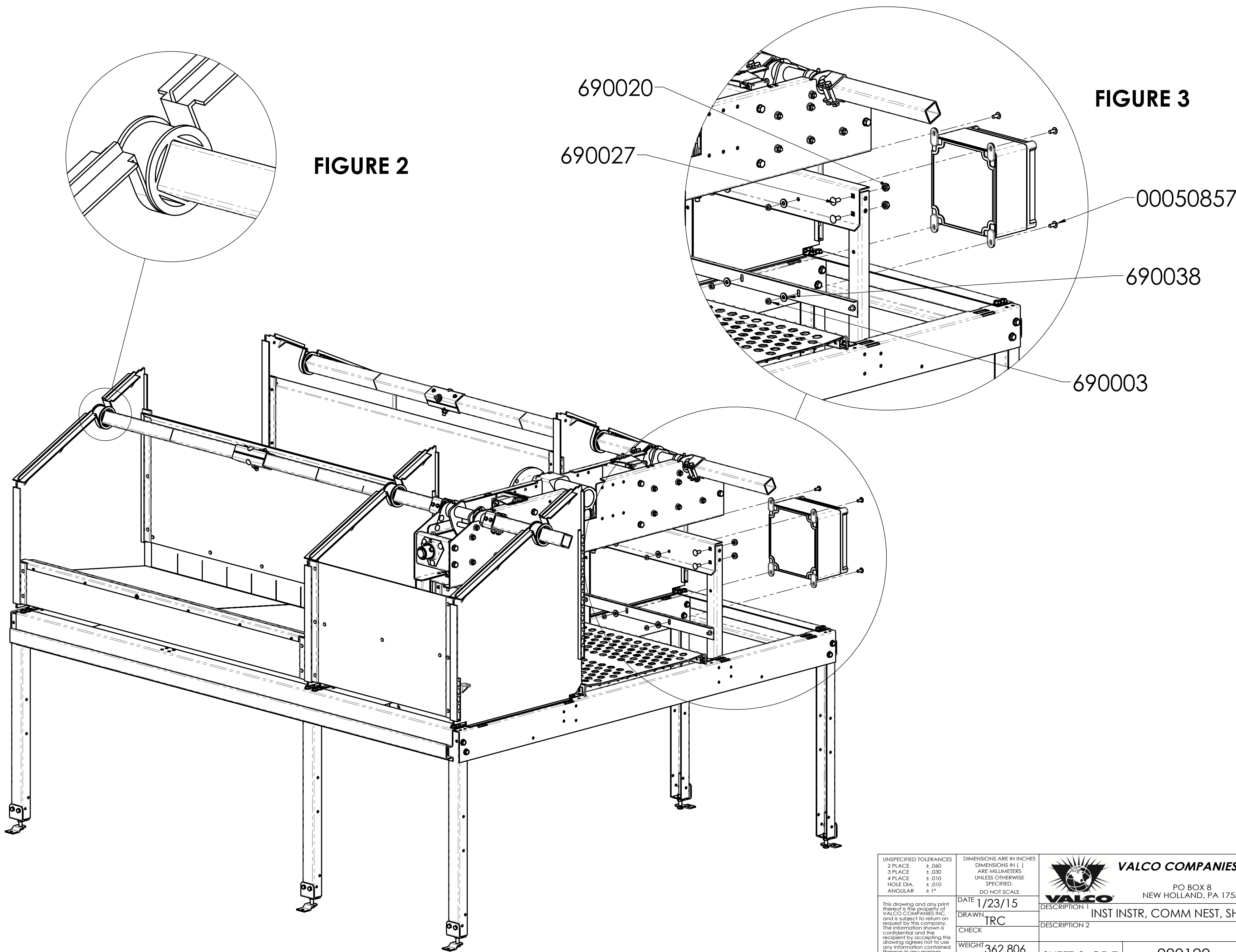
THE INSTRUCTIONS BELOW (FIG.2 & 3) REPLACE THE FOLLOWING SECTIONS IN THE MANUAL:

**3.16 EXPELLER DRIVE UNIT CONTACTOR PLATE ASSEMBLY**  
**3.17 EXPELLER DRIVE UNIT CONTACTOR BOX CONTROLS**

ATTACH THE CONTACTOR BOX TO THE TWO CHANNELS SHOWN BELOW IN FIGURE 3 USING FOUR 00050857 SCREWS, 690038 WASHERS & 690003 NUTS.

ATTACH THE EXPELLER DRIVE UNIT TO THE VERTICAL CHANNELS SUPPLIED WITH THE FRAME COMPONENTS USING EIGHT 690027 SCREWS & 690020 NUTS.

FOLLOW **4.4 NEST ASSEMBLY - EXPELLER** INSTRUCTIONS IN MANUAL TO INSTALL EXPELLER TUBES AND GROMMETS, AS SHOWN IN FIGURE 2, BUT WAIT TO INSTALL EXPELLER WIRES & HARDWARE UNTIL AFTER SNAP-LOCK FRAMEWORK IS INSTALLED.



**FIGURE 2**

**FIGURE 3**



THE INSTRUCTIONS BELOW (FIG.4 & 5) REPLACE THE FOLLOWING SECTION IN THE MANUAL:

#### 4.3 NEST ASSEMBLY - RIDGE CAP SUPPORT RAIL/RIDGE CAP/ANTI-PERCH FLAT BAR

TABS LOCK DOWN INTO  
SQUARE HOLES IN BRACKET

BRACKET HANGS ON TABS  
UNDERNEATH SUPPORT PANEL

TABS HOOK OVER  
DIVIDER WALL FLANGE

TABS HOOK OVER  
DIVIDER WALL FLANGE

631280

FIGURE 4

631284

ATTACH ONE 631280 ROOF SUPPORT PANEL TO EACH DIVIDER WALL AS SHOWN IN FIGURE 4.

ALIGN CENTER SLOT IN ROOF SUPPORT PANEL OVER DIVIDER WALL RIDGE WITH TABS FACING DOWN TOWARDS DIVIDER WALL AS DETAILED IN FIGURE 4.

FLEX SHEET METAL UP SLIGHTLY TO ALLOW INTERFERENCE FIT WITH TOP OF DIVIDER WALL AND SNAP FOUR TABS DOWN OVER EXPOSED DIVIDER WALL FLANGES AS SHOWN IN FIGURES 6 & 7.

INSERT ONE 631284 RIDGE CAP BRACKET BETWEEN EACH PAIR OF ROOF SUPPORT PANELS BY ALIGNING THE SQUARE HOLES IN THE BRACKET WITH THE END TABS IN THE SUPPORT PANELS AS SHOWN IN FIGURE 5.

631284

FIGURE 5


631280

631280

FIGURE 6

631280

FIGURE 7

UNDESIGNED TOLERANCES 2 PLACE ±.000 3 PLACE ±.000 4 PLACE ±.010 HOLE DIA ±.010 ANGULAR ±1°	DIMENSIONS ARE IN INCHES DIMENSIONS IN ( ) ARE MILLIMETERS UNLESS OTHERWISE SPECIFIED DO NOT SCALE	 <b>VALCO COMPANIES, INC.</b> PO BOX 8 NEW HOLLAND, PA 17557
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THE INSTRUCTIONS BELOW (FIG. 8-11) REPLACE THE FOLLOWING SECTION IN THE MANUAL:

**4.3 NEST ASSEMBLY - RIDGE CAP SUPPORT RAIL/RIDGE CAP/ANTI-PERCH FLAT BAR**

631283 & 631292 RIDGE CAPS CAN BE ATTACHED TO THE ROOF FRAMEWORK ONCE THE 631284 RIDGE CAP BRACKETS ARE IN PLACE.

THE END SLOT IN THE RIDGE CAP FITS OVER AN EXTENDED TAB IN THE RIDGE CAP SUPPORT, PROVIDING ALIGNMENT AS SHOWN IN FIGURE 9.

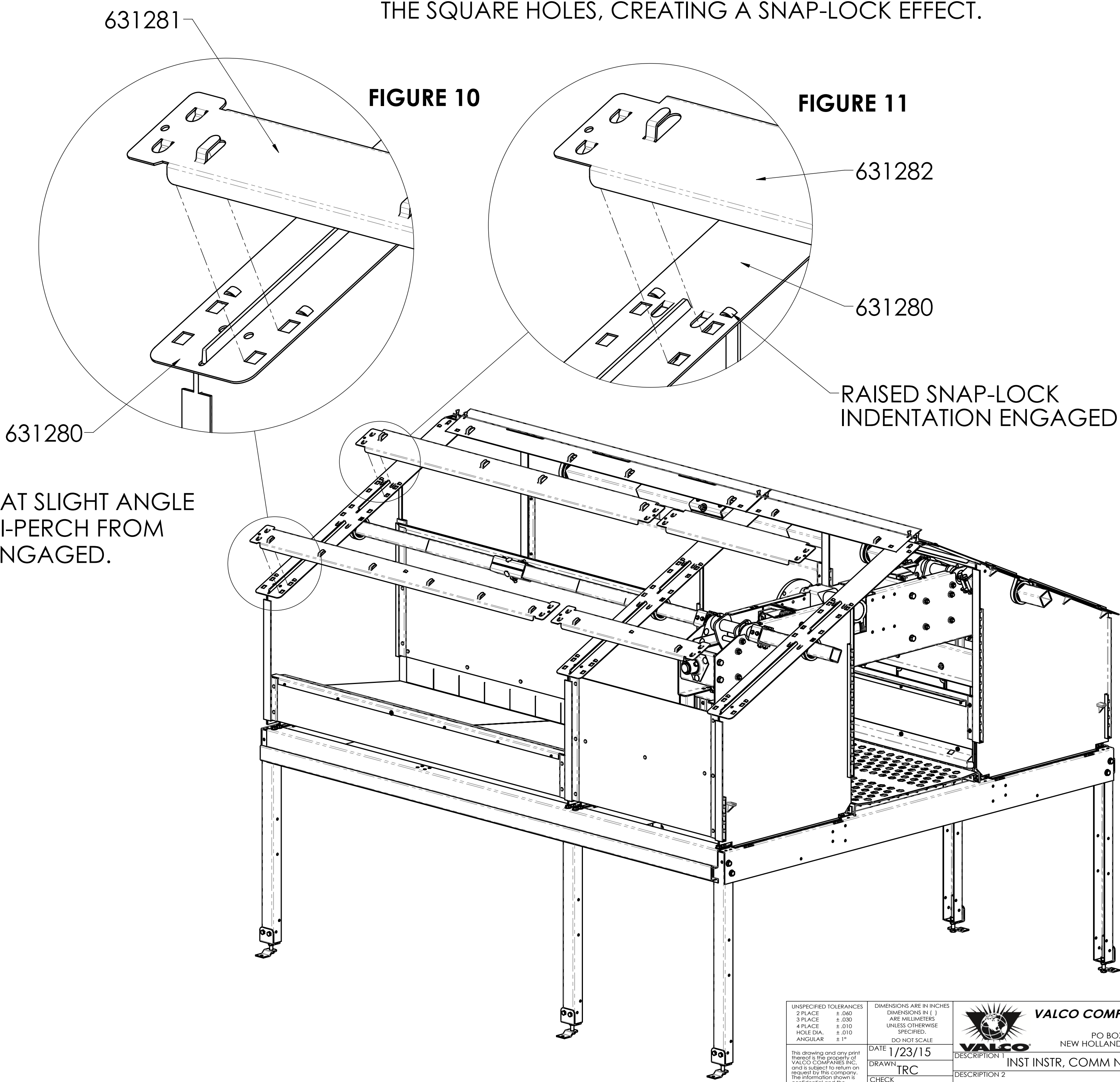
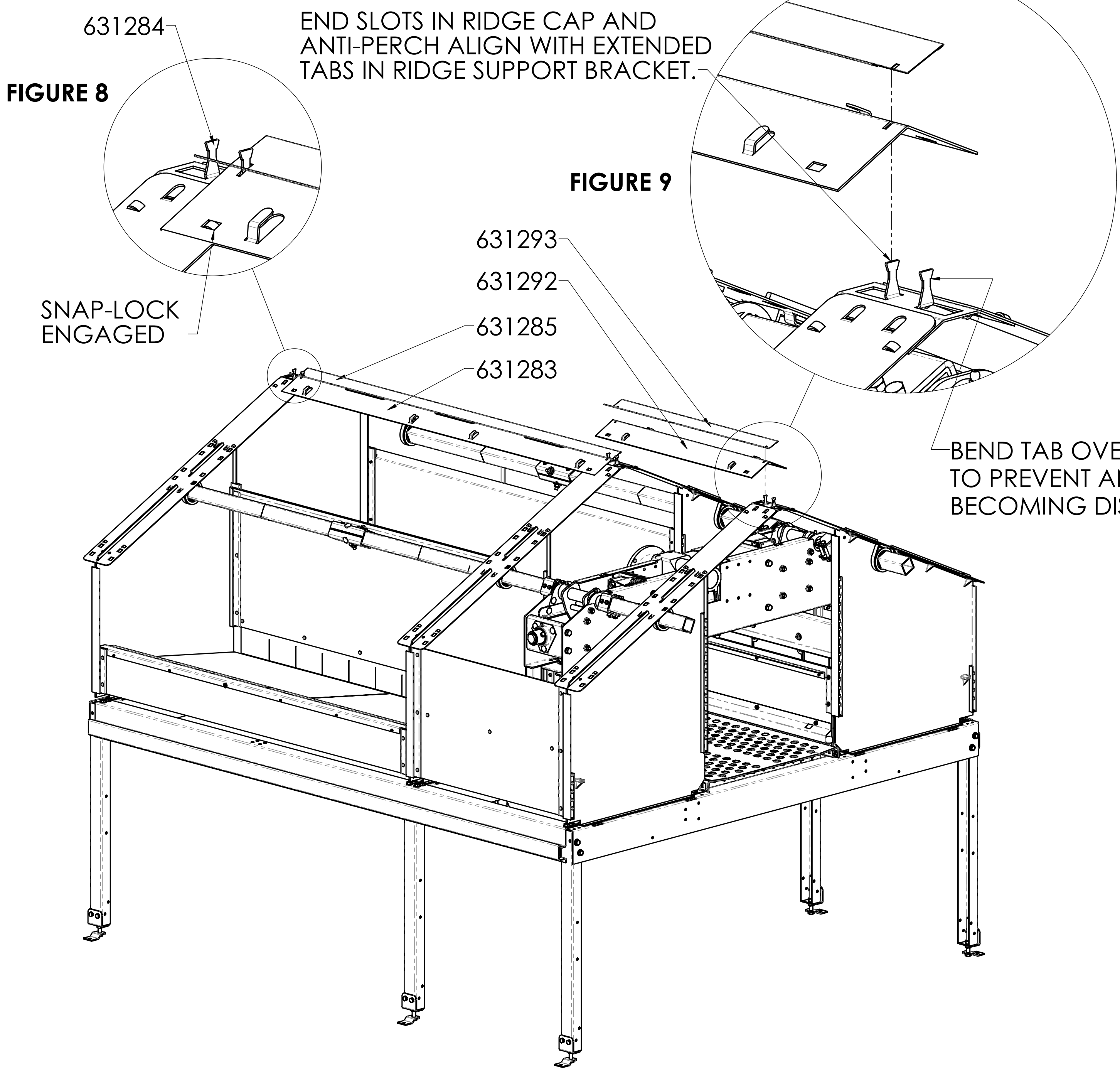
THE RIDGE CAP THEN SNAPS INTO PLACE: SQUARE HOLES IN THE END OF THE RIDGE CAP LINE UP WITH RAISED INDENTATIONS IN THE RIDGE CAP SUPPORTS, AS SEEN IN FIGURE 8.

ONCE RIDGE CAP AND ANTI-PERCH ARE IN PLACE, BEND TOPS OF VERTICAL TABS IN RIDGE SUPPORT BRACKET OVER AT A SLIGHT ANGLE, TO PREVENT ANTI-PERCH FROM BECOMING DISNEGAGED, AS SHOWN IN FIGURE 9.

ALL FOUR RAILS (631281, 631282, 631290 & 631291) ATTACH THE SAME WAY TO THE 631280 ROOF SUPPORT PANELS.

EACH RAIL HAS FOUR TABS PUNCHED DOWN AT AN ANGLE THAT ALIGNS WITH SQUARE HOLES IN THE ROOF SUPPORT PANEL, AS SHOWN IN FIGURES 10 & 11.

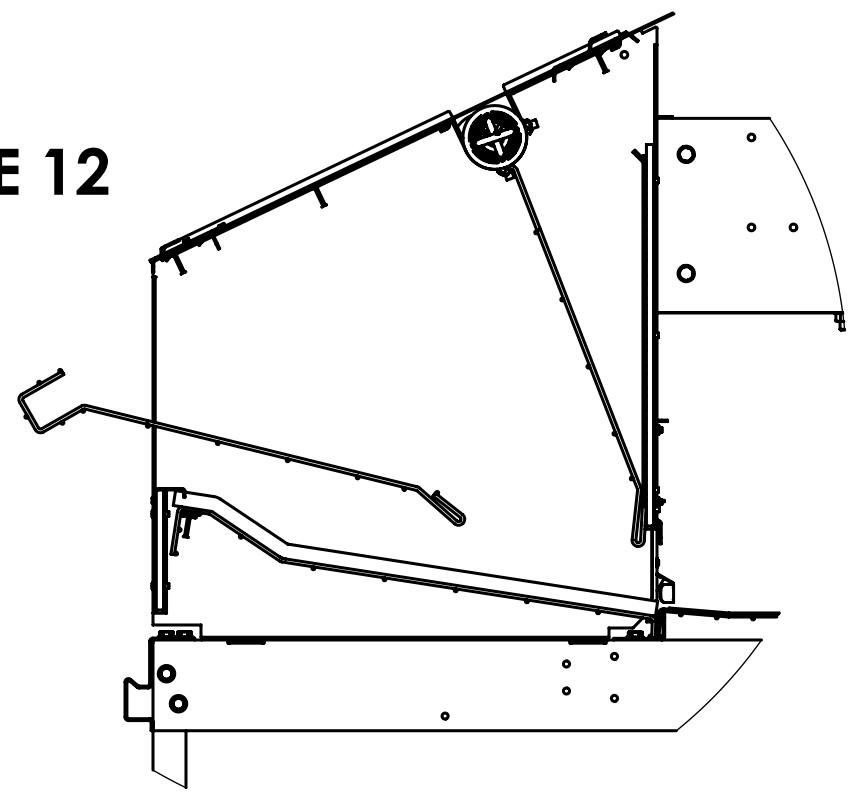
THE ROOF SUPPORT PANELS HAVE RAISED INDENTATIONS ABOVE EACH SET OF SQUARE HOLES, REQUIRING THE RAILS TO BE TAPPED DOWN INTO PLACE AFTER INSERTING THE TABS INTO THE SQUARE HOLES, CREATING A SNAP-LOCK EFFECT.





CONTINUE TO FOLLOW **4.4 NEST ASSEMBLY - EXPELLER** INSTRUCTIONS IN MANUAL TO FINISH INSTALLING EXPELLER WIRES & HARDWARE ONCE SNAP-LOCK FRAMEWORK IS INSTALLED. EXPELLER WIRES ARE NOTCHED AT THE CORNER TO ALLOW INSERTION INTO THE NEST AT AN ANGLE UNDER THE FRONT RAIL, AS SHOWN IN FIGURE 12.

FIGURE 12



ONCE THE 631286 LOWER TOP PANEL IS IN PLACE, THE 631287 UPPER TOP PANEL CAN BE ATTACHED.

THE UPPER TOP PANEL LOCKS INTO PLACE BY OVERLAPPING THE LOWER TOP PANEL AND HOOKING DOWN INTO EIGHT DIFFERENT RAISED TABS, AS SHOWN IN FIGURE 15.

NEITHER THE LOWER OR UPPER TOP PANEL ARE SYMMETRIC, SO THERE IS ONLY ONE CORRECT WAY THEY CAN BE ASSEMBLED.

FIGURE 16 SHOWS HOW THE UPPER TOP PANEL SHOULD SIT ONCE HOOKED INTO THE SUPPORT RAILS.

THE 631294 TOP EXPELLER PANEL COMBINES BOTH ATTACHMENT TECHNIQUES, LOCKING INTO PLACE AT THE BOTTOM LIKE THE LOWER TOP PANEL AND HOOKING AT THE TOP LIKE THE UPPER TOP PANEL.

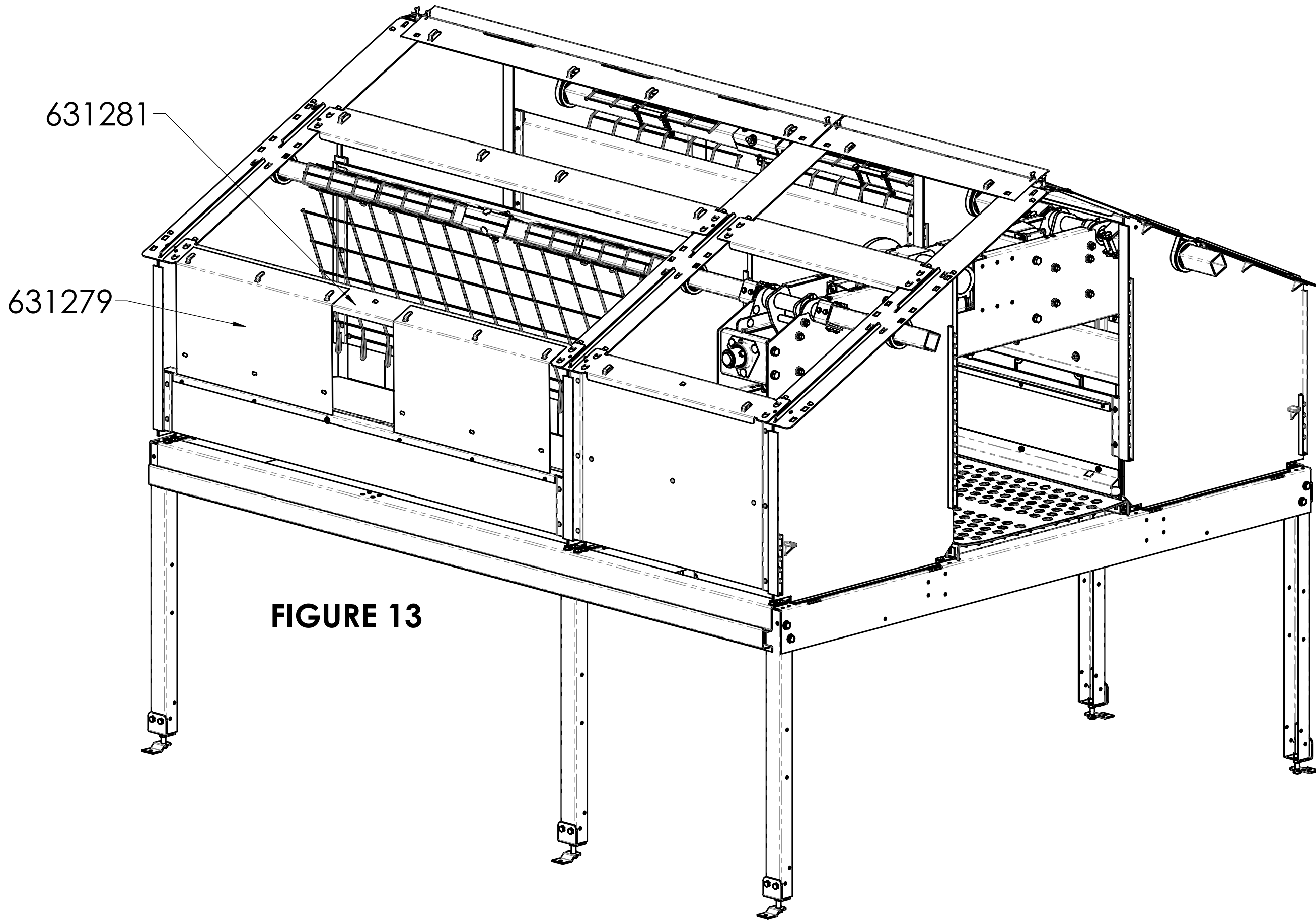


FIGURE 13

THE INSTRUCTIONS BELOW (FIG. 13-16) REPLACE THE FOLLOWING SECTION IN THE MANUAL:

**4.7 NEST ASSEMBLY - TOP**

TWO 631279 CURTAINS ARE TO BE HUNG ON EACH 631281 FRONT RAIL AS SHOWN IN FIGURE 13.

THERE ARE TWO ROWS OF THREE SLOTS IN EACH CURTAIN THAT LINE UP WITH THE THREE TABS IN EACH RAIL.

THE SLOT ROWS ARE SYMMETRICAL: THERE IS NO TOP OR BOTTOM ORIENTATION TO HOW THE CURTAINS ARE HUNG.

AFTER THE CURTAINS ARE HUNG, THE 631286 LOWER TOP PANEL CAN BE ATTACHED TO THE FRAME RAILS.

THE BOTTOM OF THE LOWER TOP PANEL LOCKS INTO PLACE AS SHOWN IN FIGURE 14.

AFTER SLIDING THE LOWER PANEL DOWN ON TOP OF THE CURTAIN, UNDERNEATH THE RAISED TABS IN THE 631281 FRONT RAIL, A SMALL RECTANGULAR CUT OUT IN THE PANEL (JUST BELOW THE FINGER HOLE) WILL LINE UP WITH A RAISED INDENTATION IN THE FRONT RAIL, LOCKING THE PANEL IN PLACE.

FIGURE 14

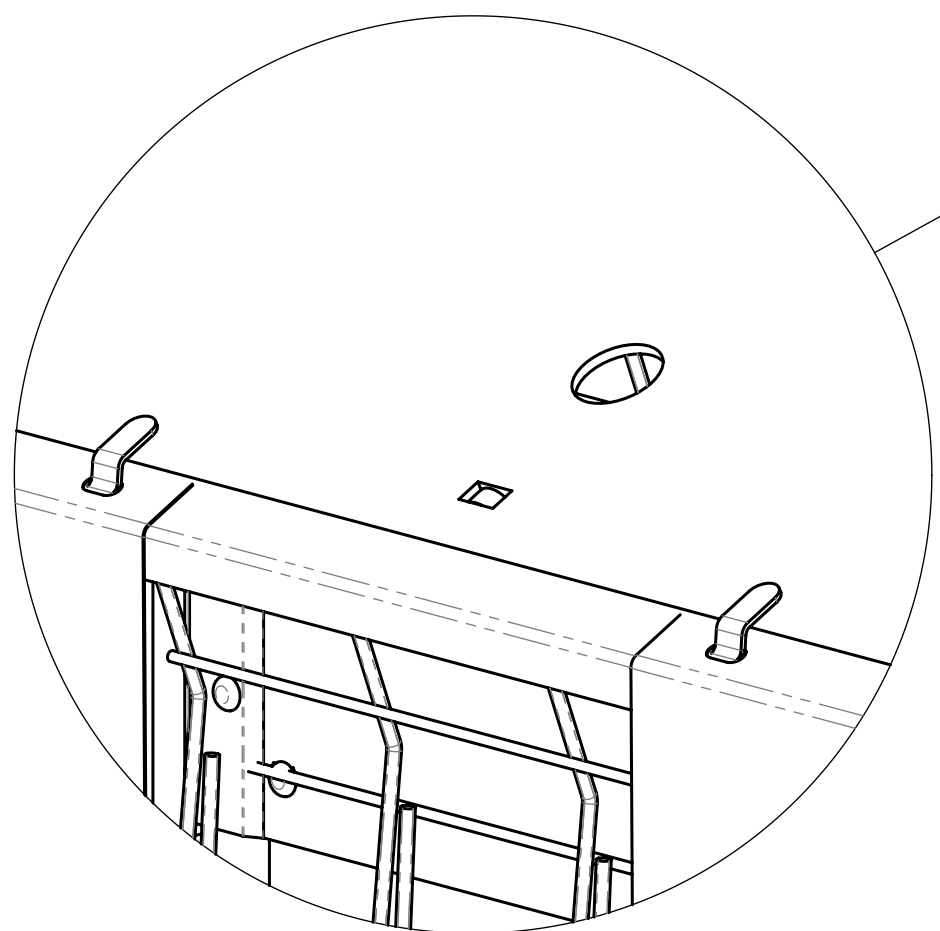


FIGURE 15

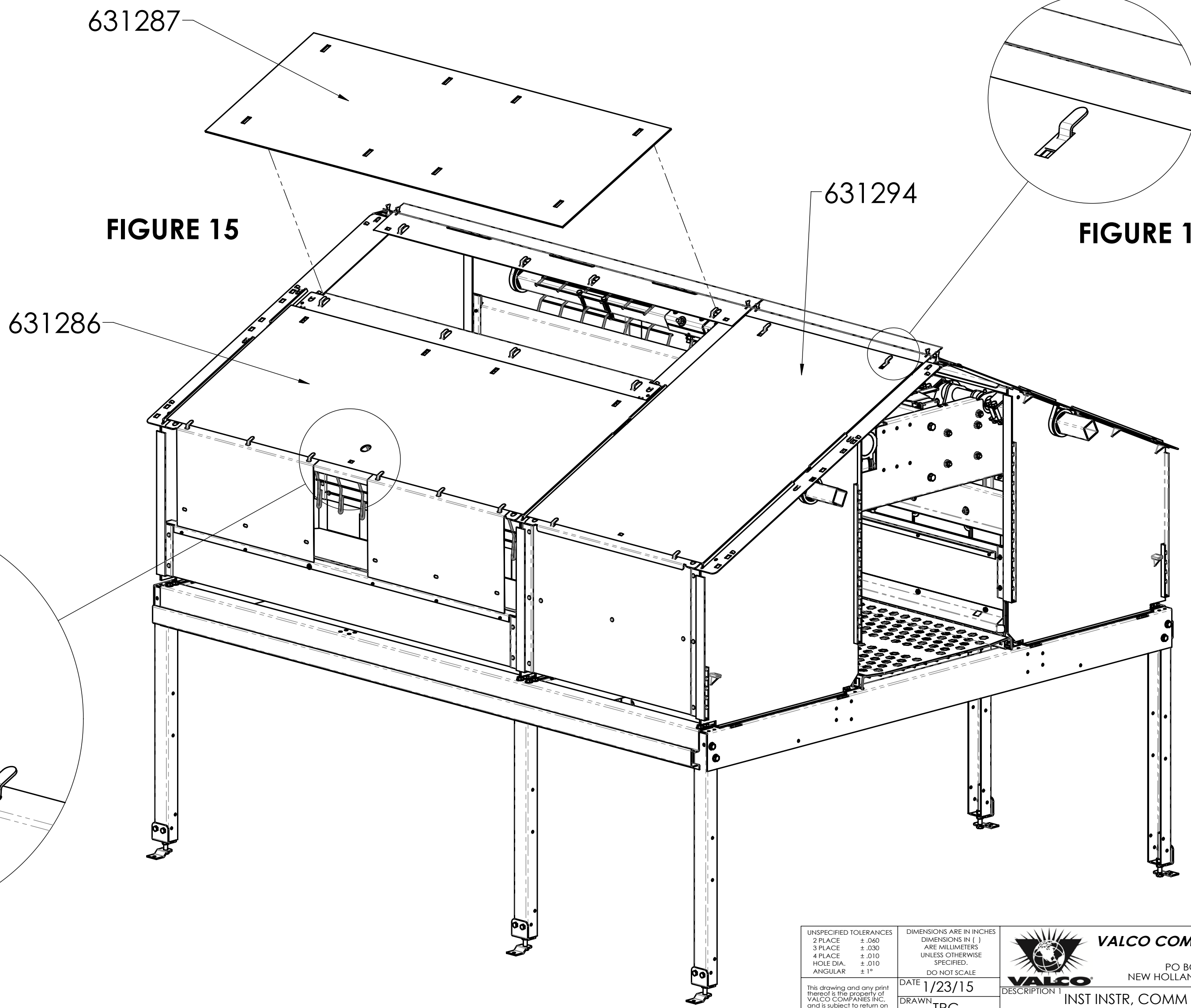
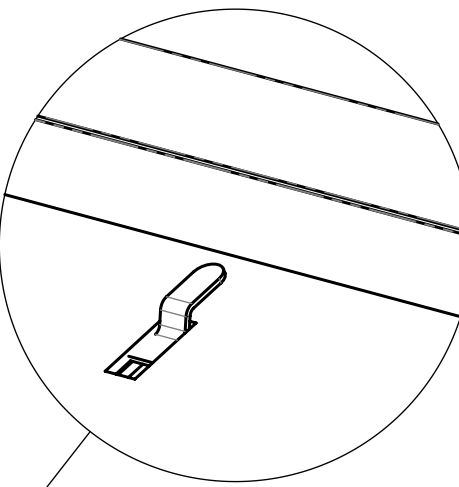


FIGURE 16





THE INSTRUCTIONS BELOW (FIG.17-20) REPLACE THE FOLLOWING SECTION IN THE MANUAL:

## 5.2 WALL PANEL ASSEMBLIES

### END PANEL SUB-ASSEMBLY:

THE 631295 EOR BASE PANEL HAS HOLES IN IT FOR THE 630661 EOR COVER BAND TO BE ATTACHED USING A PAIR OF 690010 SCREWS AND 690012 NUTS, AS SHOWN IN FIGURE 18. THE EOR BASE PANEL HAS FORMED FLANGES ON THE SIDES THAT SLIDE DOWN INTO THE "L" CHANNEL ON THE SIDES OF THE DIVIDER WALLS.

THE 631304 EOR UPPER PANEL ATTACHES TO THE OUTER FACE OF THE END DIVIDER WALLS AND IS SECURED BY A PAIR OF 690077 SCREWS AND 690003 NUTS, AS SHOWN IN FIGURE 17. THE SCREW HEADS SHOULD BE PLACED INSIDE THE PANEL, WITH THE NUTS LOCKING DOWN ON THE STEEL BODY OF THE EOR UPPER PANEL.

THE 631300 EOR WALL PANEL HAS FORMED TABS AT THE TOP THAT HOOK DOWN INTO SLOTS CUT INTO THE BOTTOM FLANGE OF THE EOR UPPER PANEL AND STRAIGHT TABS THAT SLIDE INTO SLOTS IN THE UPPER BEND OF THE EOR BASE PANEL, AS DETAILED IN FIGURES 17 & 18.

THE 631194 EOR WALL COVER PANEL IS ATTACHED TO THE END OF THE ROW AT THE OPPOSITE END FROM THE EGG COLLECTOR, TO PREVENT EGGS FROM ROLLING BACKWARDS INTO THE IDLER ASSEMBLY, AS SHOWN IN FIGURE 18. IT HAS HOLES IN THAT ALLOWS IT BE TO BE ATTACHED BETWEEN THE EOR COVER BAND AND EOR BASE PANEL.

THERE IS NO HARDWARE TO LOCK THE EOR WALL PANEL INTO PLACE, WHICH ALLOWS IT TO BE REMOVED EASILY WHEN DOING GENERAL MAINTENANCE.

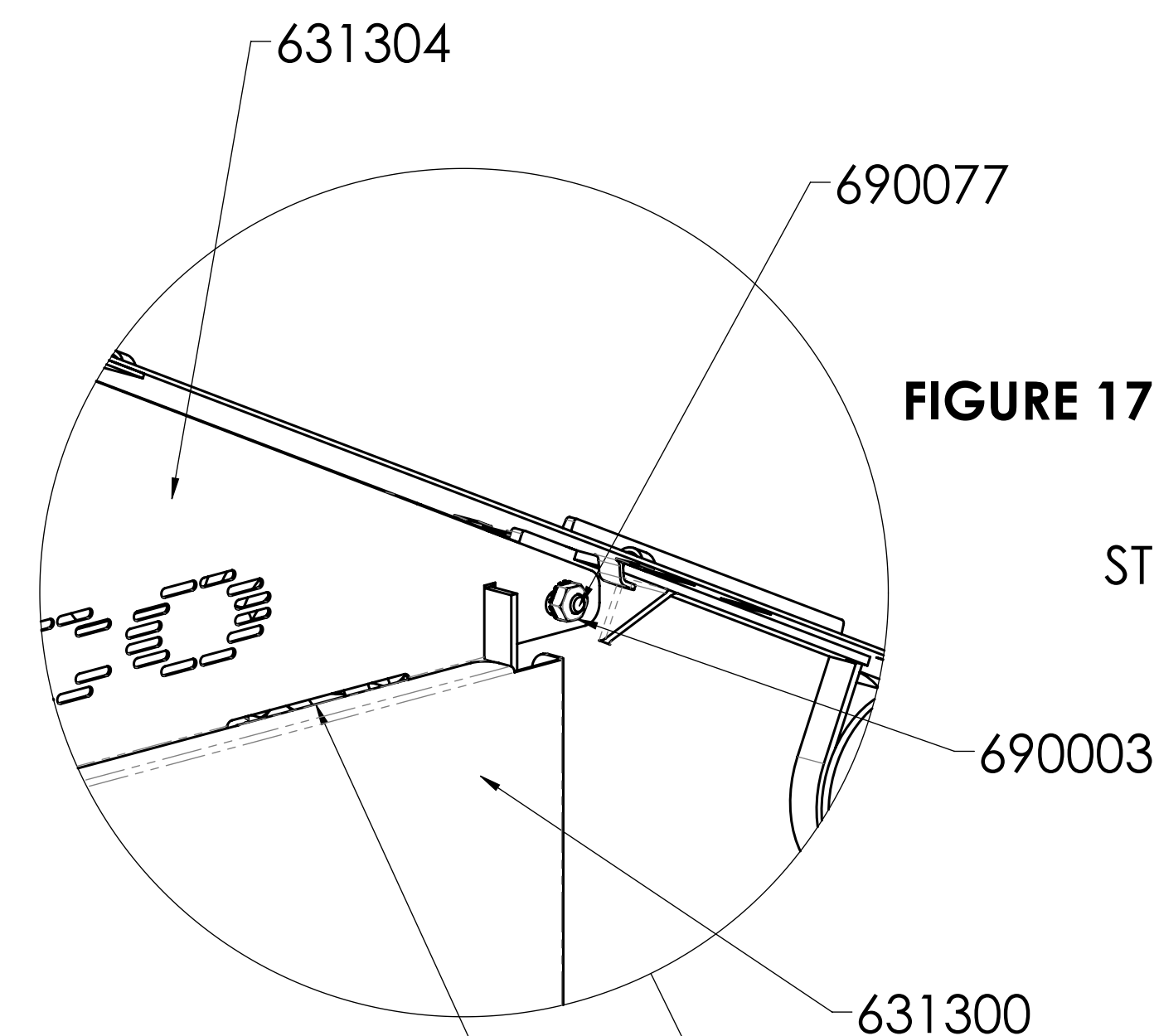


FIGURE 17

STRAIGHT TAB & SLOT CONNECTION

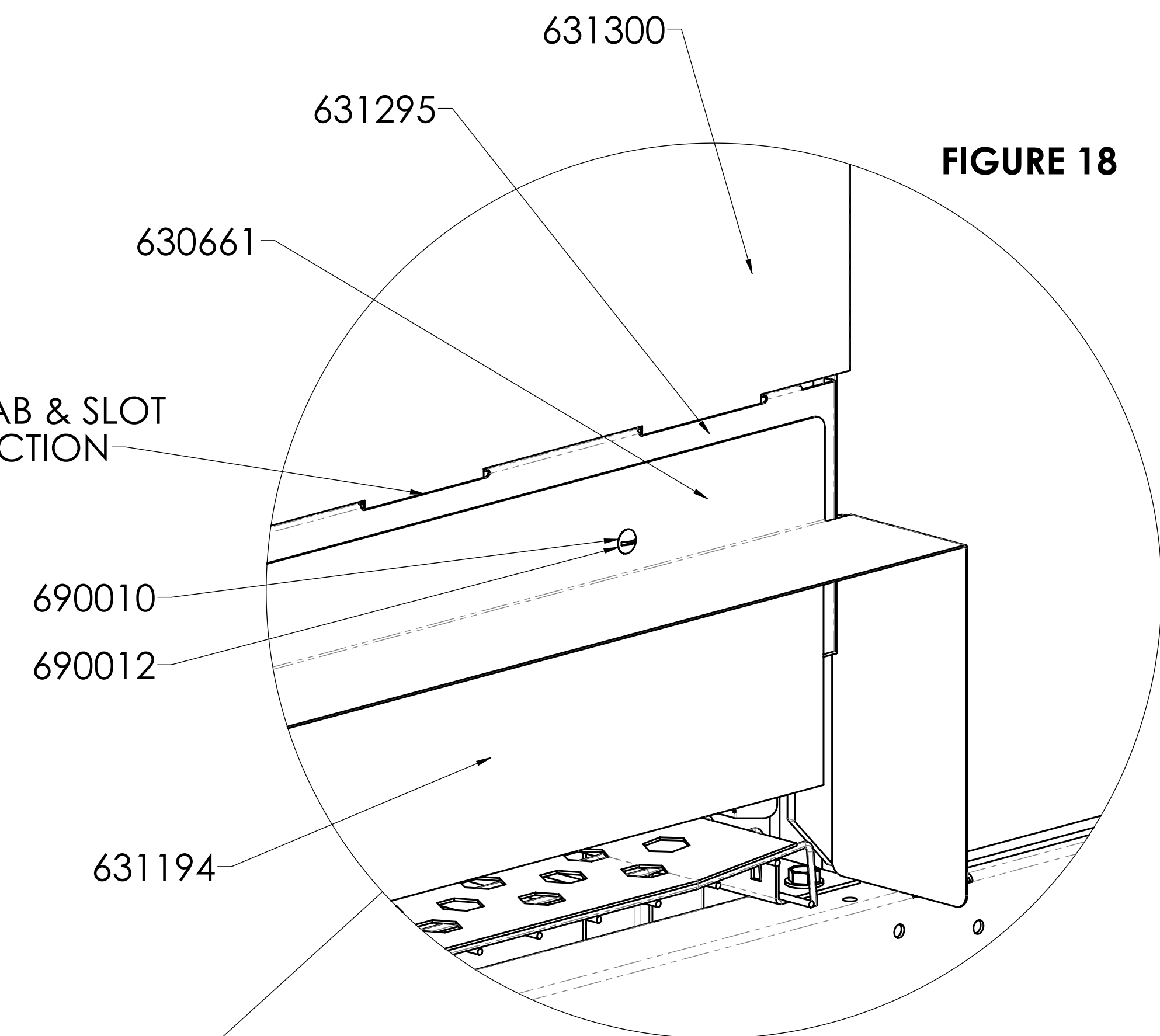


FIGURE 18

FORMED TAB & SLOT CONNECTION

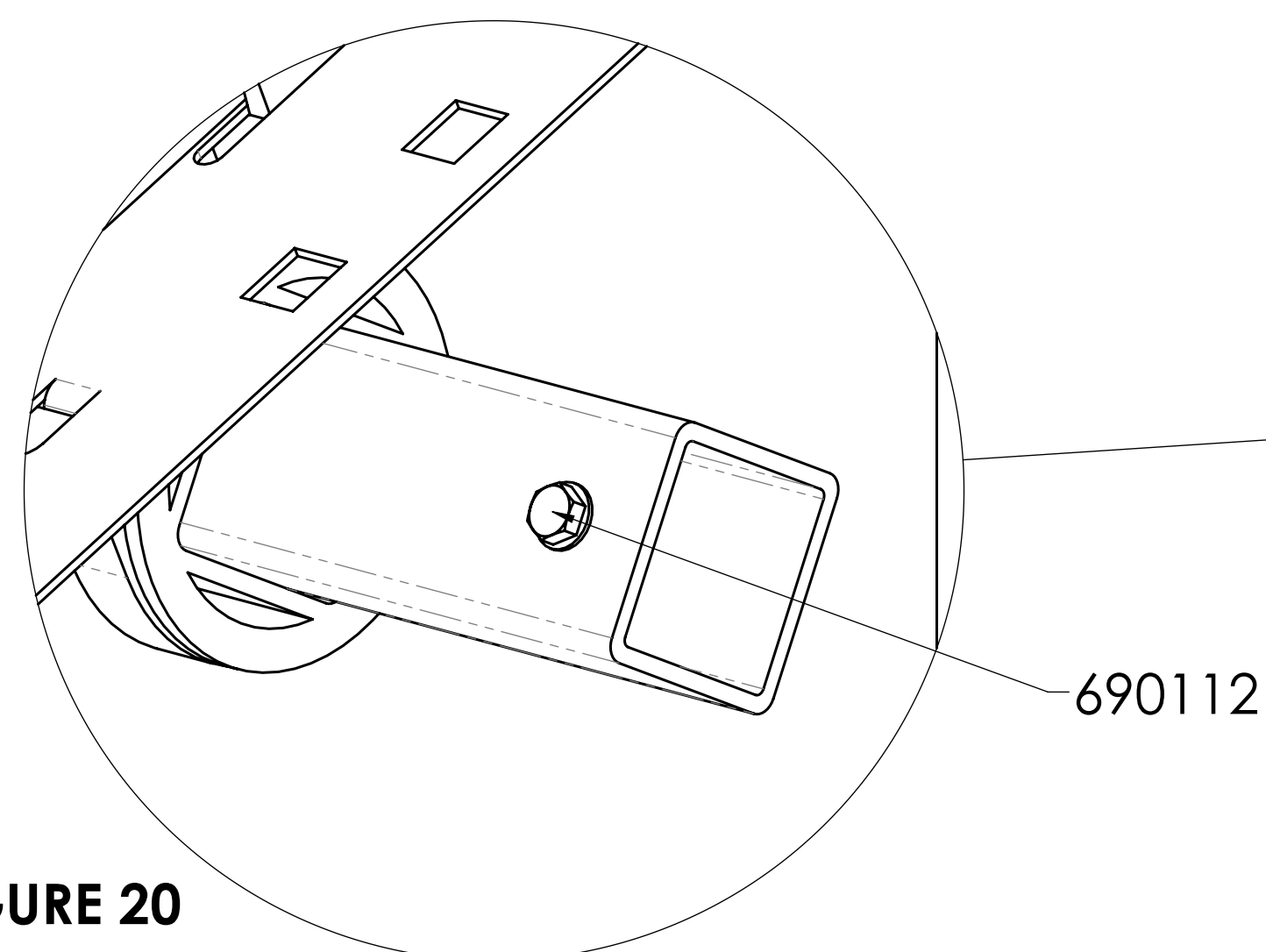


FIGURE 20

690112 TEK SCREWS SHOULD BE DRILLED INTO THE EXPOSED ENDS OF EXPELLER TUBES AT THE END OF EACH ROW TO PREVENT THE DIVIDER WALL FROM SHIFTING, AS SHOWN IN FIGURE 20 AND THE MANUAL:

### 4.5 NEST ASSEMBLY - CAPPING ENDS OF EXPELLER TUBES

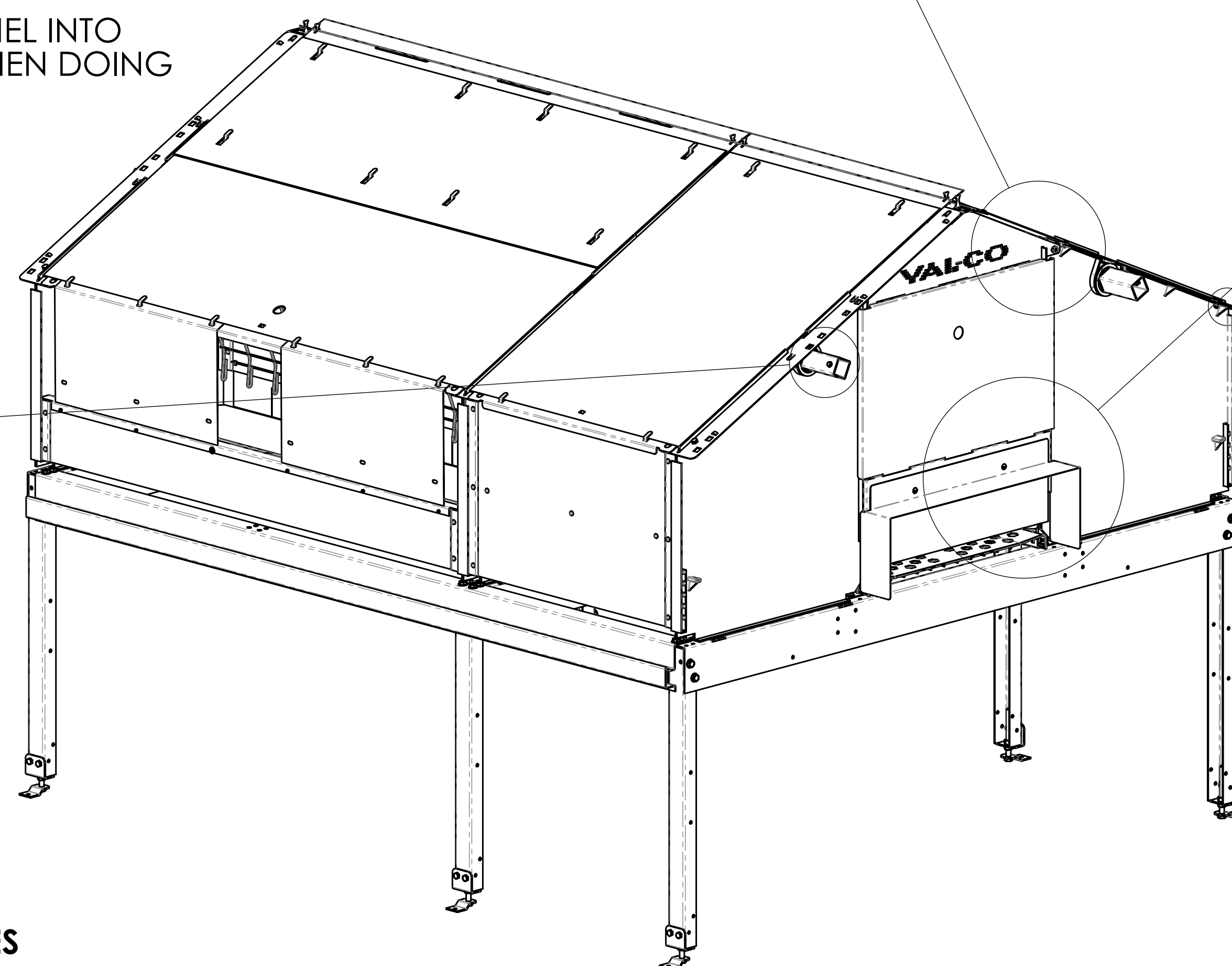



FIGURE 19

AT EACH CROSS-OVER AND END OF ROW, A 690003 NUT AND 690077 BOLT SHOULD BE USED TO LOCK THE 631280 ROOF SUPPORT PANEL TO THE END DIVIDER WALL, AS SHOWN IN FIGURE 19. THERE IS A PILOT HOLE IN EACH ROOF SUPPORT PANEL FOR THIS PURPOSE, BUT A HOLE WILL NEED TO BE FIELD DRILLED INTO THE DIVIDER WALL TO FACILITATE THIS.

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