

LIGHT TRAP COMBINATION SYSTEM WITH 55" FAN



WARRANTY

J&D Mfg. warrants all products are free from defects in materials and workmanship under normal use for the period of one year from date of purchase. Our warranty does not cover ordinary wear and tear. J&D Mfg can repair or replace at our option, any product or part of the product that is found to be defective. Our warranty applies to materials only and does not include return freight, delivery, loss or damage to personal property, cost of removal or installation, any incidental or consequential damages or labor. This warranty does not apply to products which are misused, abused, altered, improperly installed or subject to negligence. All warranties must be approved through our warranty department. The original purchaser must present a copy of the invoice for the defective product. One year is our standard warranty unless specified on our literature or in the installation instructions/user manuals.

RECOMMENDED TOOLS FOR INSTALLATION AND ASSEMBLY (NOT PROVIDED)

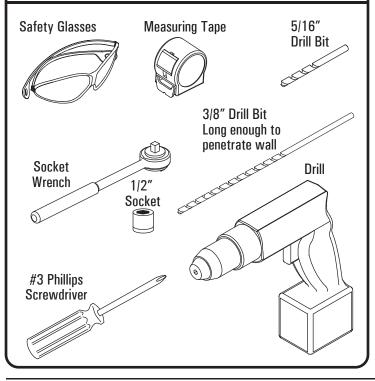


Table of Contents

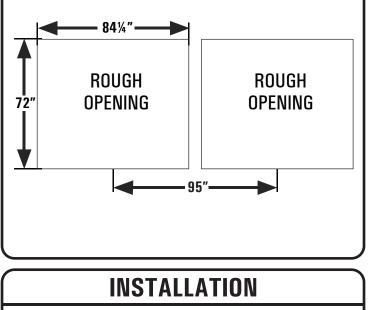
- A: Installation of Transition for 55" Fan
- B: 55" Fan Assembly
- C: Installation of 55" Fan into Transition
- **D: Installation of Light Trap Doors**
- E: Wiring & Electrical Information
- F: Maintenance

Site Requirements:

- Rough Opening 84¼" W x 72"H
- Side-By-Side Recommended OC Dimension Minimum 95"
- Precautions should be taken in locations that receive winter precipitation accumulation to prevent damage to fans from roof avalanches. Damage to fans from ice, snow, or any other falling debris is <u>not covered by warranty</u>.

Common industry standard solutions are

- > Extending roof eve beyond fan cone*
- > Create a shelter a minimum of 6" above cone that extends beyond the fan cone*
- > Install snow guards according to manufacturers recommendations
- * The depth of J&D's 55" Light Trap Combination System is 86"

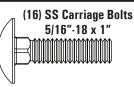


Please read over all instructions carefully before you begin. If you have any questions please call your local dealer, or contact J&D Manufacturing at 1.800.998.2398.

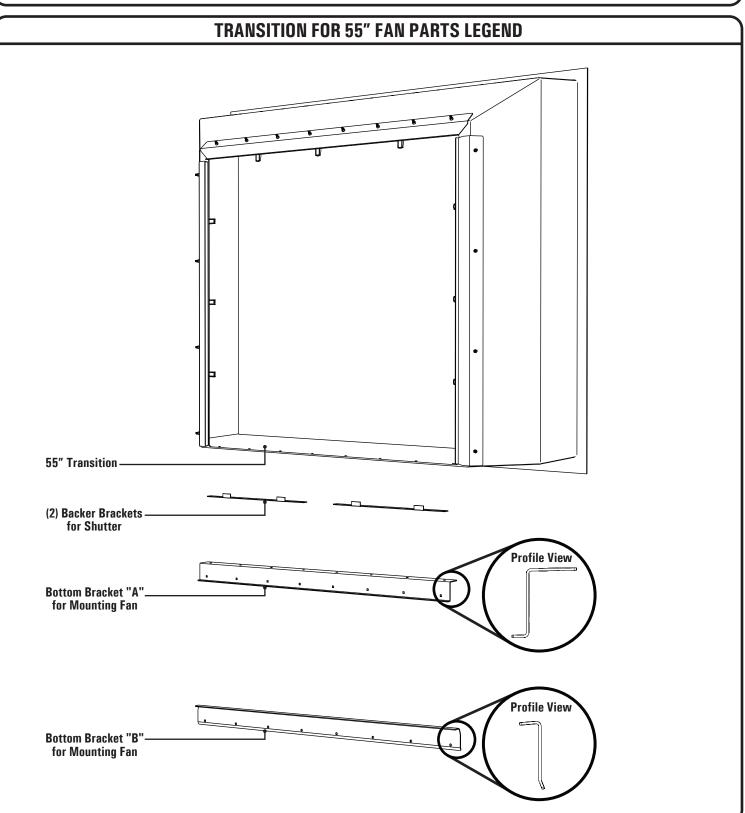
Installation of Transition for 55" Fan

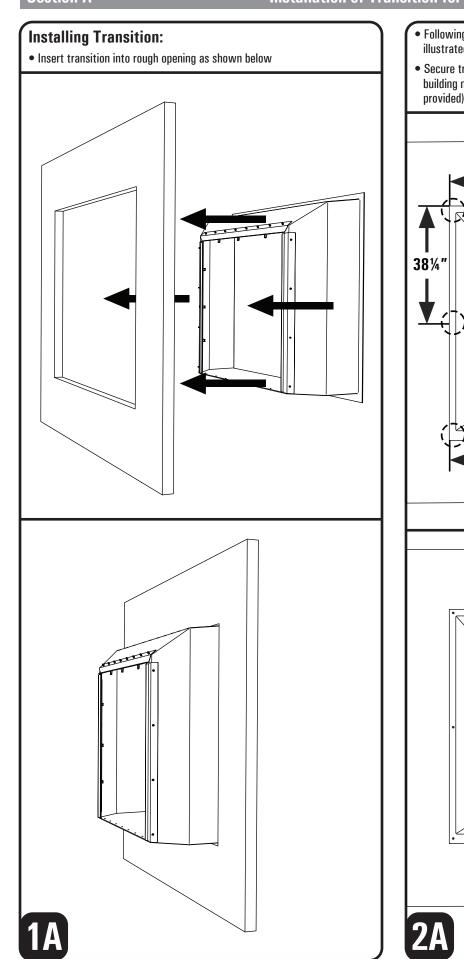
Section A

TRANSITION FOR 55" FAN - INCLUDED ASSEMBLY HARDWARE - TO SCALE

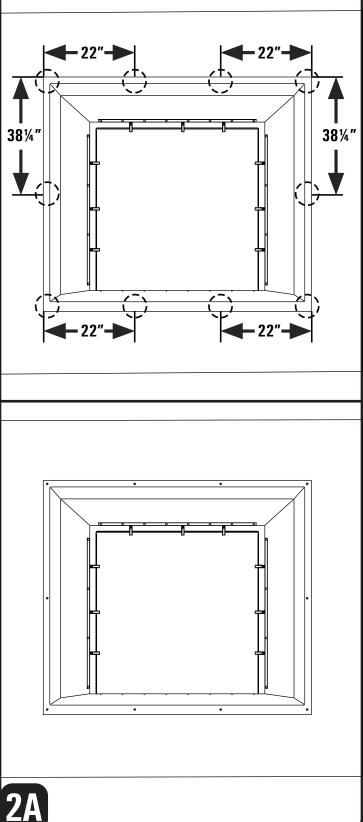






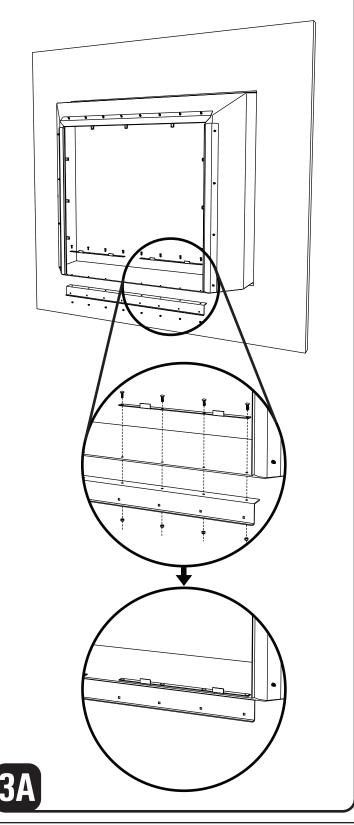


- Following the measurements and locations, mark the locations as illustrated below
 - Secure transition to structure using the appropriate hardware for your building material at the (10) marked locations (securing hardware is not provided)

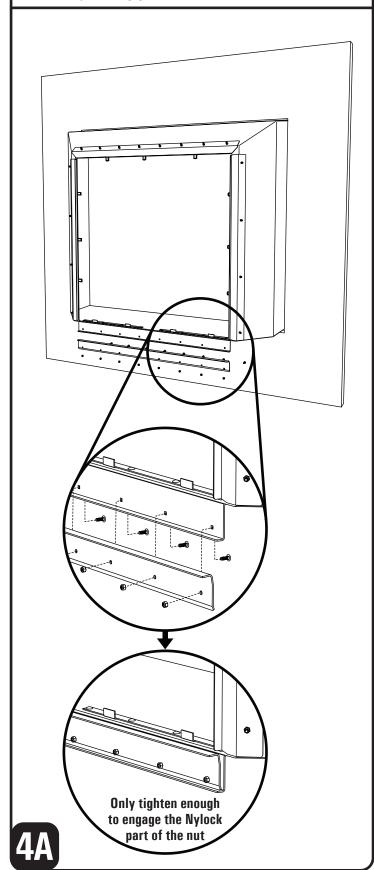


Attaching Bottom Brackets:

- Using (8) 5/16"-18 x 1" SS Carriage Bolts and (8) 5/16"-18 SS Nylock Nuts, secure the (2) Backer Brackets for Shutter and Bottom Bracket "A" to bottom of the transition as shown
- **NOTE:** Tabs of Backer Brackets should face the outside of the transition. View illustration for proper installation.



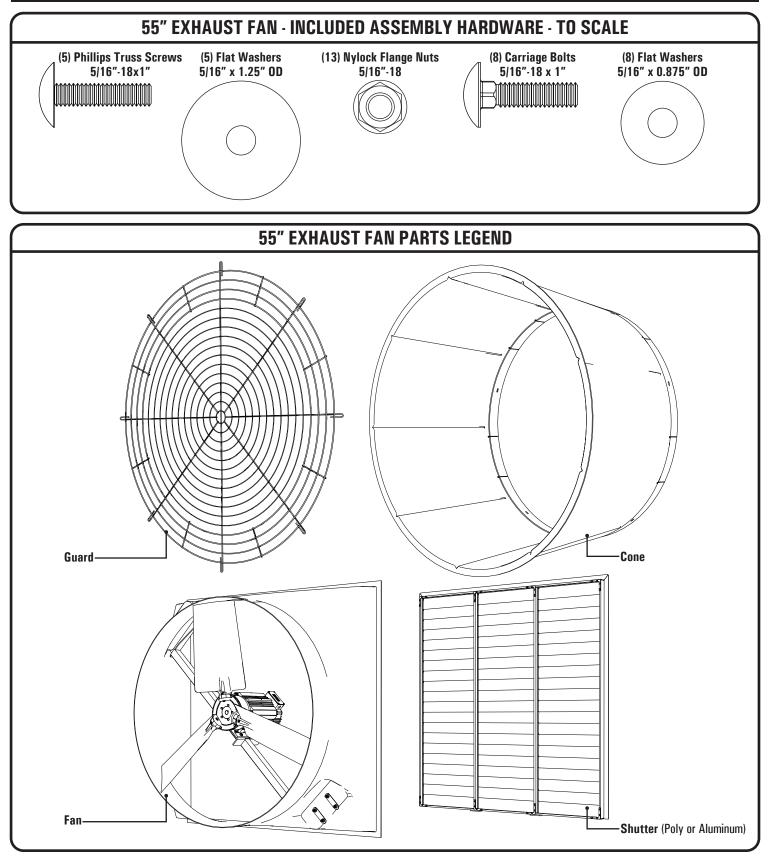
- Using (8) 5/16"-18 x 1" SS Carriage Bolts and (8) 5/16"-18 SS Nylock Nuts attach the Bottom Bracket "B" to Bottom Bracket "A"
- **NOTE:** DO NOT tighten these nuts at this time only thread onto bolts until the Nylock is engaged





55" Exhaust Fan Assembly

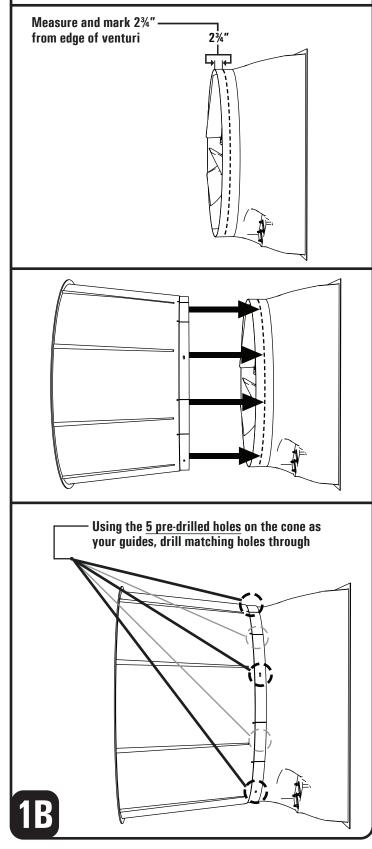
Section **B**



NOTE: Fan assembly can be completed either before installation into the transition or after housing is mounted in the transition. Site accessibility, available machinery, and manpower should be your deciding factor.

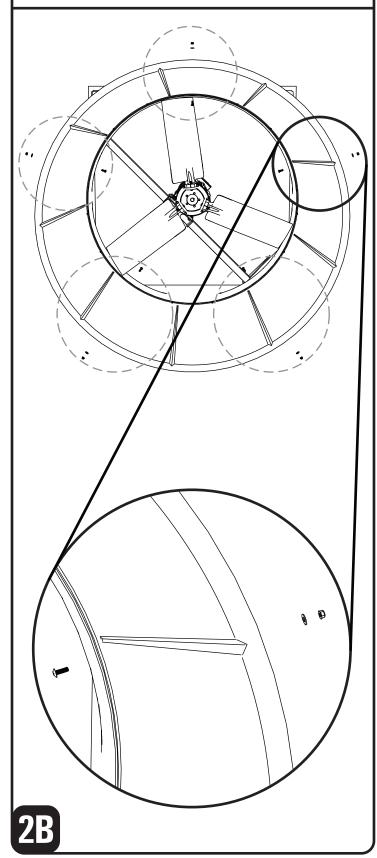
Attaching Cone to Fan:

- Measure and mark 2¾" from the edge of the venturi as shown below
- \bullet Slide cone onto venturi to the 2¾" mark just made
- With a 5/16" drill bit, drill matching holes through the venturi using the 5 pre-drilled holes on the cone as your guides



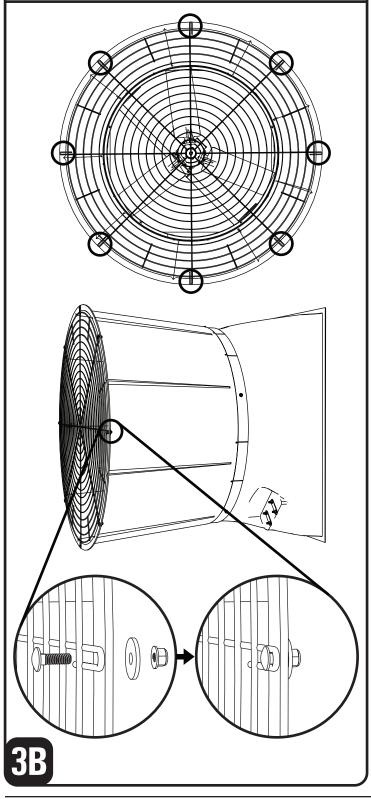
• Secure the cone to the venturi using (5) 5/16"-18x1" Phillips Truss Screws, (5) 5/16" x 1.25" OD Flat Washers, and (5) 5/16"-18 Nylock Flange Nuts.

Insert bolts from the interior of the cone and secure with washers and nuts on exterior as shown below.



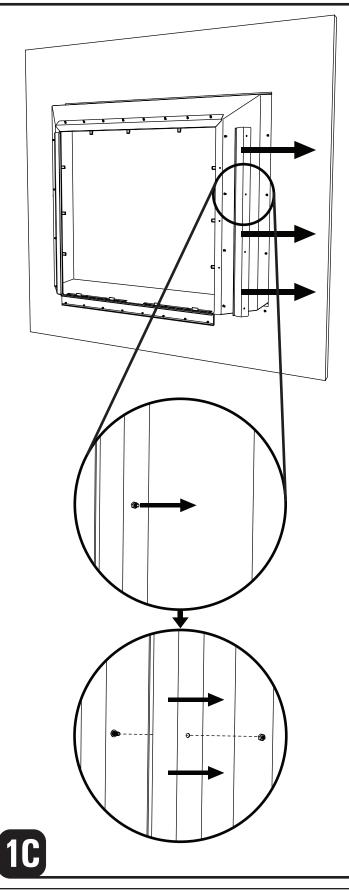
Attaching Guard to Cone:

- Place guard against cone flange.
- Using 5/16" drill bit and the guard mounting feet as guides, drill holes through the cone flange.
- Secure the guard to the cone using (8) 5/16" carriage bolts, (8) 5/16" flat washers, and (8) 5/16" nylock flange nuts. Review the Assembly View illustration for proper installation.
- Do not tighten hardware until all have been assembled.



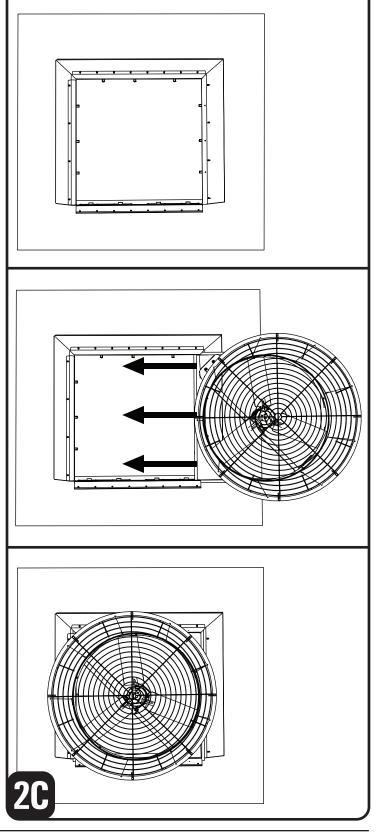
Prepare Transition for Mounting Fan:

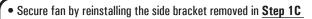
• Choose a side that you intend to mount the fan from and remove the side bracket as shown below



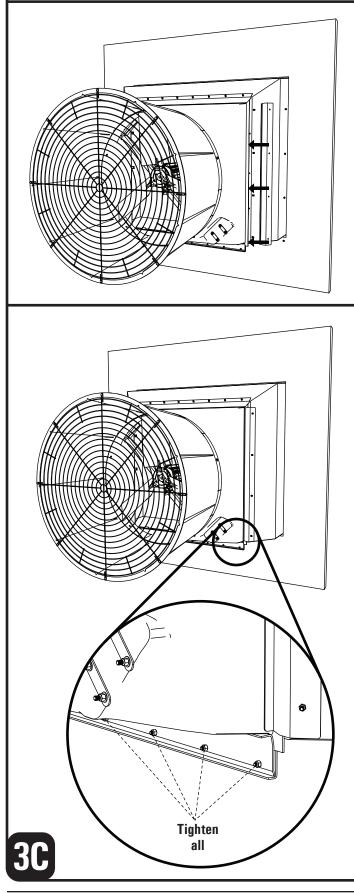
Install Fan:

- Align flange of fan so that the bottom flange rests between Bottom Bracket "A" and Bottom Bracket "B" previously installed in <u>Steps 3A &</u> <u>4A</u> and the top flange under the top bracket
- Once aligned, slide fan all the way over making sure that the fans side flange is under the side bracket as shown below



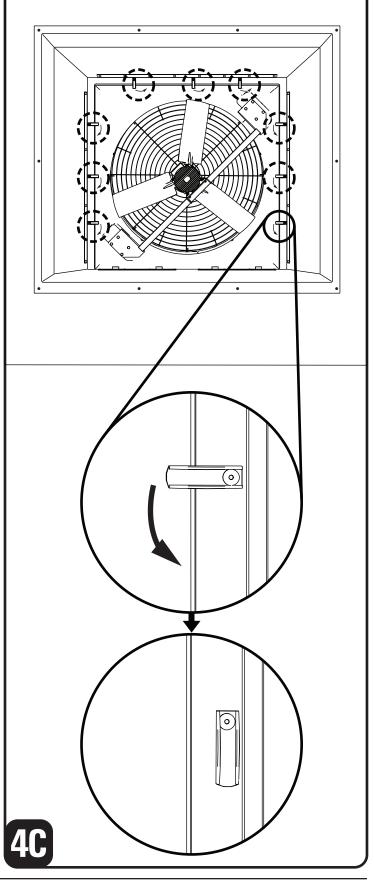


• Tighten the nuts securing Bottom Bracket "B" to Bottom Bracket "A" from **Step 4A**



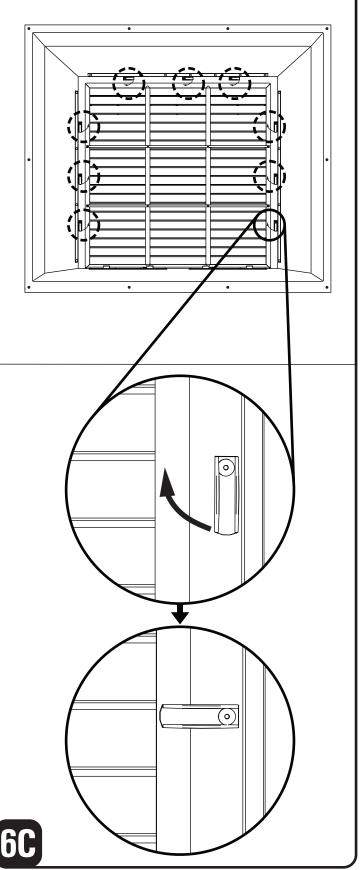
Installing the Poly or Aluminum Shutter:

• Rotate the shutter clips as shown below



Installation of 55" Fan into Transition

- Insert the bottom of the shutter behind the bottom bracket tabs as shown below 4 5(
 - Tilt the top of the shutter into the opening
 - Rotate the shutter clips as shown below



Section D

Installation of Light Trap Doors

LIGHT TRAP - INCLUDED ASSEMBLY HARDWARE - TO SCALE (22) Carriage Bolts 5/16"-18 x 5" (22) Flat Washers 3/8" x 1" (22) Split Lock Washers (24) SS Nylock Nuts (24) SS Carriage Bolts (22) Hex Nuts 5/16" 5/16"-18 5/16"-18 x 3/4" 5/16"-18 **LIGHT TRAP PARTS LEGEND** (2) Plastic Spacers (4) Hinge-Left -Right **Right**-(2) Toggle · Left **Light Trap Door** Door Clamps Light Trap Door Door Backer with Lip Hinge Hinge Plates **ADDITIONAL ITEM NEEDED - NOT PROVIDED**

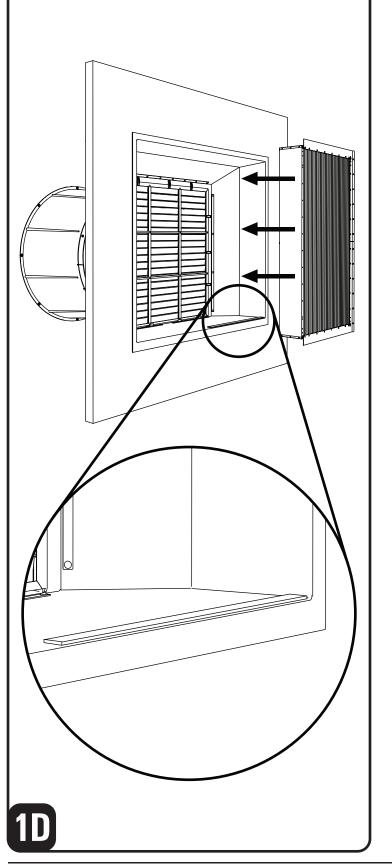


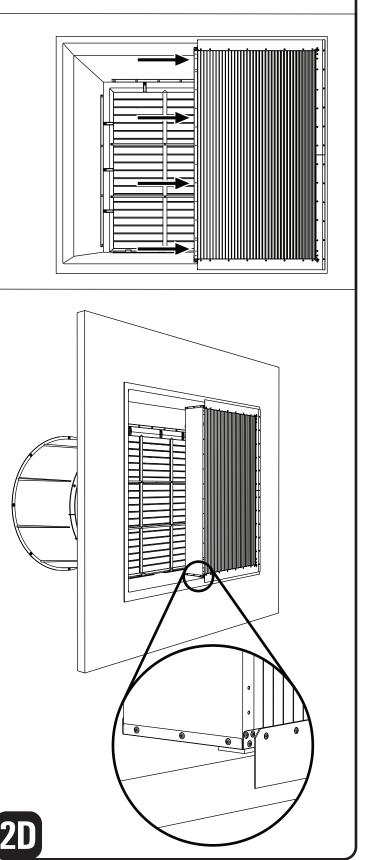
Section D

Placement of Right Light Trap Door:

- Place 1/2" thick spacer board (not provided) on the bottom right side of the transition as shown below
- Insert right light trap door into transition

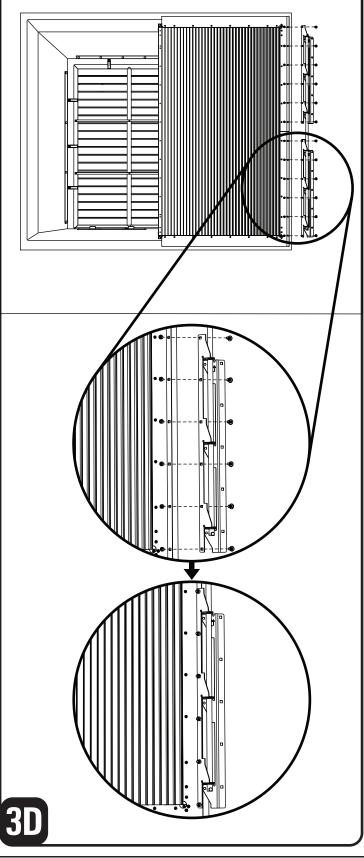
- Push right light trap door to the right so that it is tight against the transition
- Check placement of the 1/2" thick spacer board confirming that it is under the door





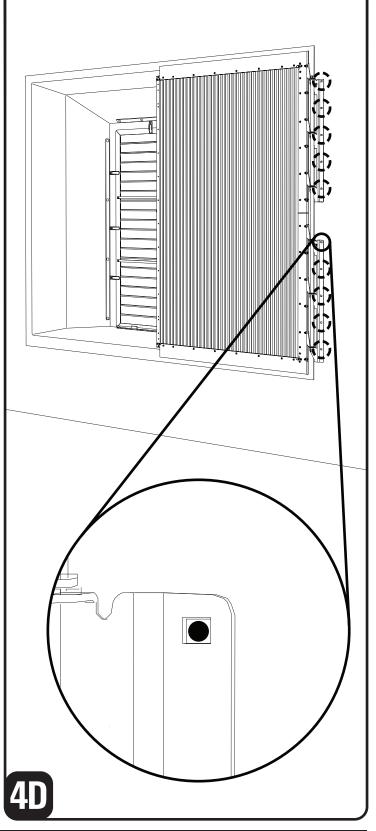
Attaching Right Hinge to Right Light Trap Door:

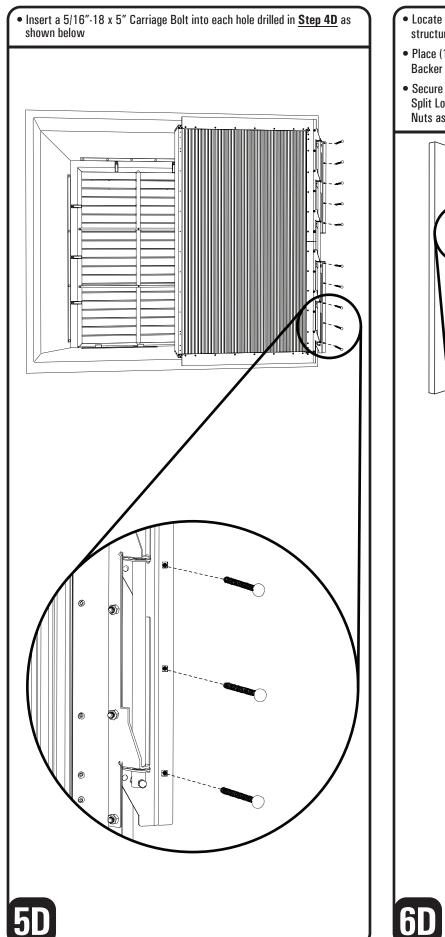
• Using (12) 5/16"-18 x 3/4" SS Carriage Bolts and (12) 5/16"-18 SS Nylock Nuts secure the right hinge to the right light trap door as shown below



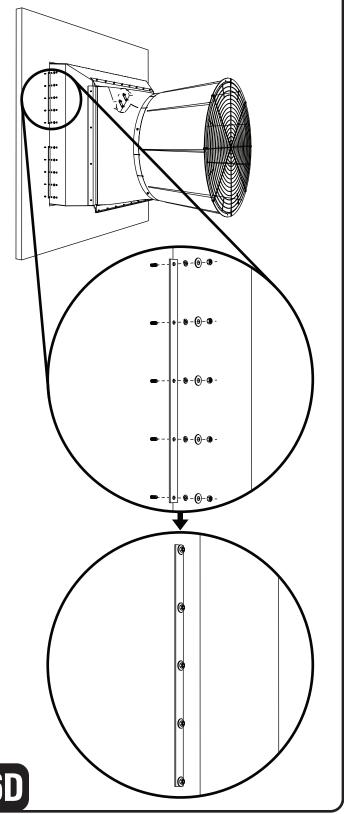
Securing Right Light Trap Door to Structure:

- Lay the other half of the hinge so that it lies flat against the structure
- Using the holes in the hinge plate as your guide and a 3/8" Drill Bit Long enough to penetrate through the structure wall, drill 10 holes (take care to not angle the holes)



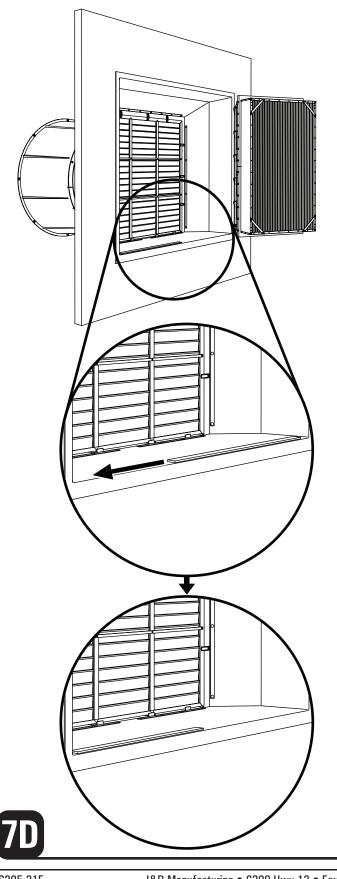


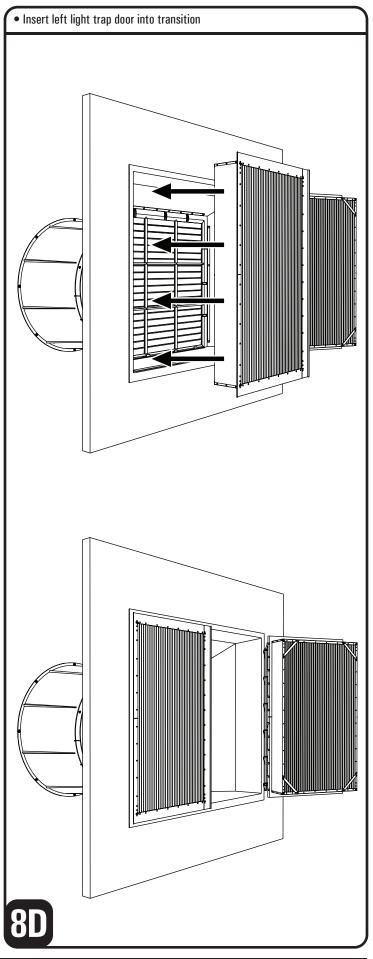
- Locate the (10) 5/16"-18 x 5" Carriage Bolts on the exterior of the structure that were inserted in <u>Step 5D</u>
- Place (1) Hinge Backer Plate on the top 5 protruding bolts and (1) Hinge Backer Plate on the bottom 5 protruding bolts
- Secure both Hinge Backer Plates to 10 protruding bolts with (10) 5/16'' Split Lock Washers, (10) $3/8'' \ge 1''$ Flat Washers, and (10) $5/16''\cdot 18$ Hex Nuts as shown below



Placement of Left Light Trap Door:

• Move the 1/2" thick spacer board (not provided) that was used for placement of the right door over to left side of the transition as shown below

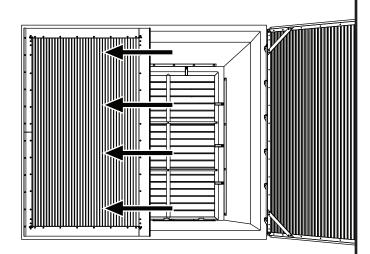


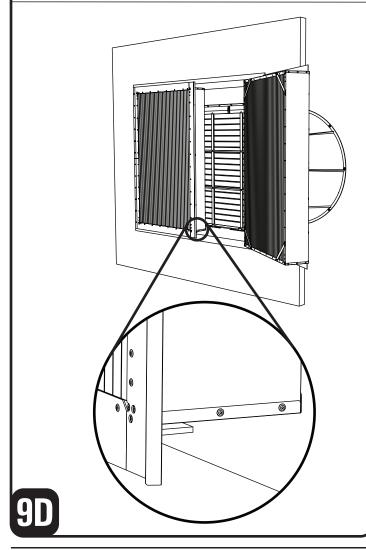


Section D

Installation of Light Trap Doors

- Push left light trap door to the left so that it is tight against the transition
- \bullet Check placement of the 1/2" thick spacer board confirming that it is under the door





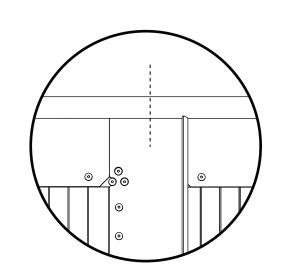
Attaching Left Hinge to Left Light Trap Door & Securing Left Light Trap Door to Structure:

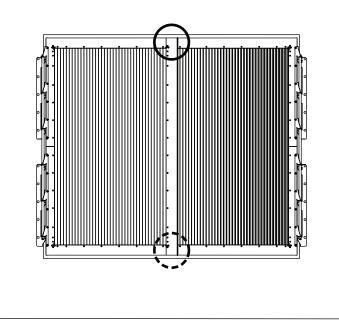


• Repeat <u>Steps 3D to 6D</u> for attaching left hinge to left light trap door and securing hinge to building

Door Toggle Clamp Installation:

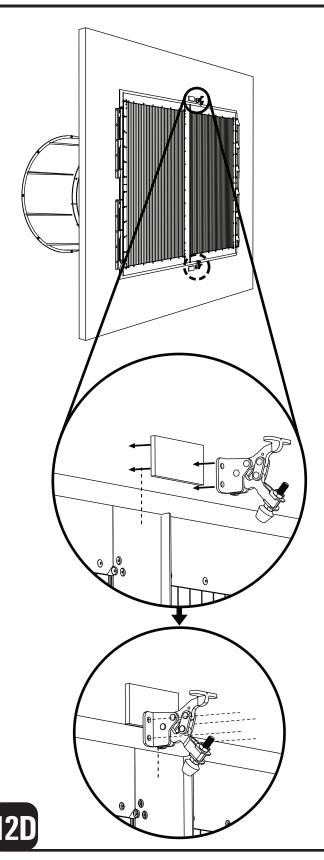
• Measure and mark the middle of the left door lip (top and bottom) as shown below





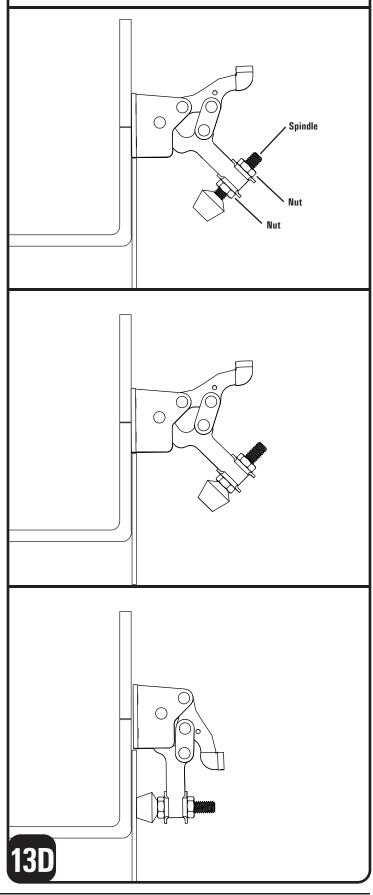
Section D

- Using the mark made in <u>Step 11D</u> as your guide, center (1) Plastic Spacer and (1) Toggle Clamp as shown below
- Secure toggle clamp to structure using (4) screws appropriate for your building material (not provided)
- Repeat for opposite end of door



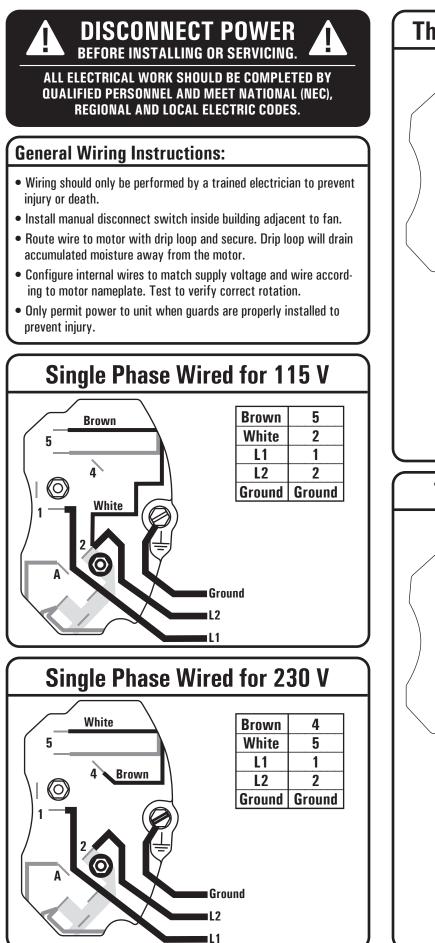
Door Toggle Clamp Adjustment:

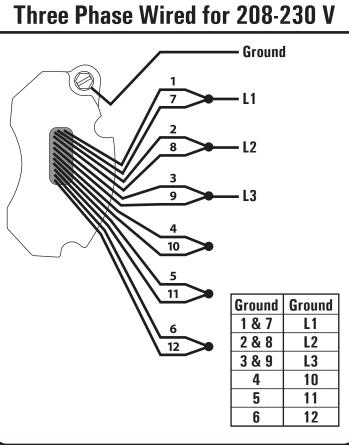
 If door toggle clamp needs adjusting, loosen nuts to adjust spindle, re-tighten nuts once spindle is in correct position

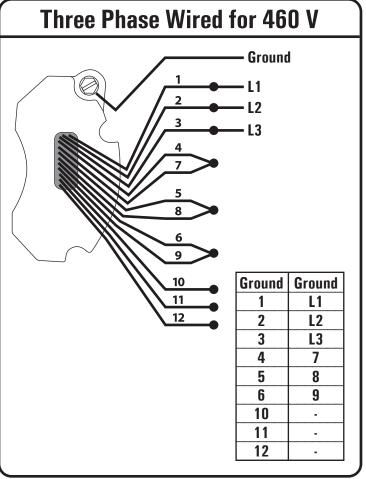


Section E

Wiring







Maintenance Instructions:

- Disconnect power before cleaning or maintaining your fan in order to prevent serious injury or death.
- Service and repair of fan should only be completed by a qualified technician.
- Motor is sealed and does not require additional oil.
- Cleaning
 - For maximum efficiency and fan life, keep the following free from dirt and dust:
 - Fan Blades
 - Guard
 - Shutter Louvers
 - Motor
 - Light Trap Fins
 - \cdot Using either high volume, high pressure air and/or water from hose at 120-150 psi max pressure .
 - DO NOT pressure wash any of the components as it can cause damage that is not covered by warranty