

36" LIGHT TRAP COMBINATION SYSTEM

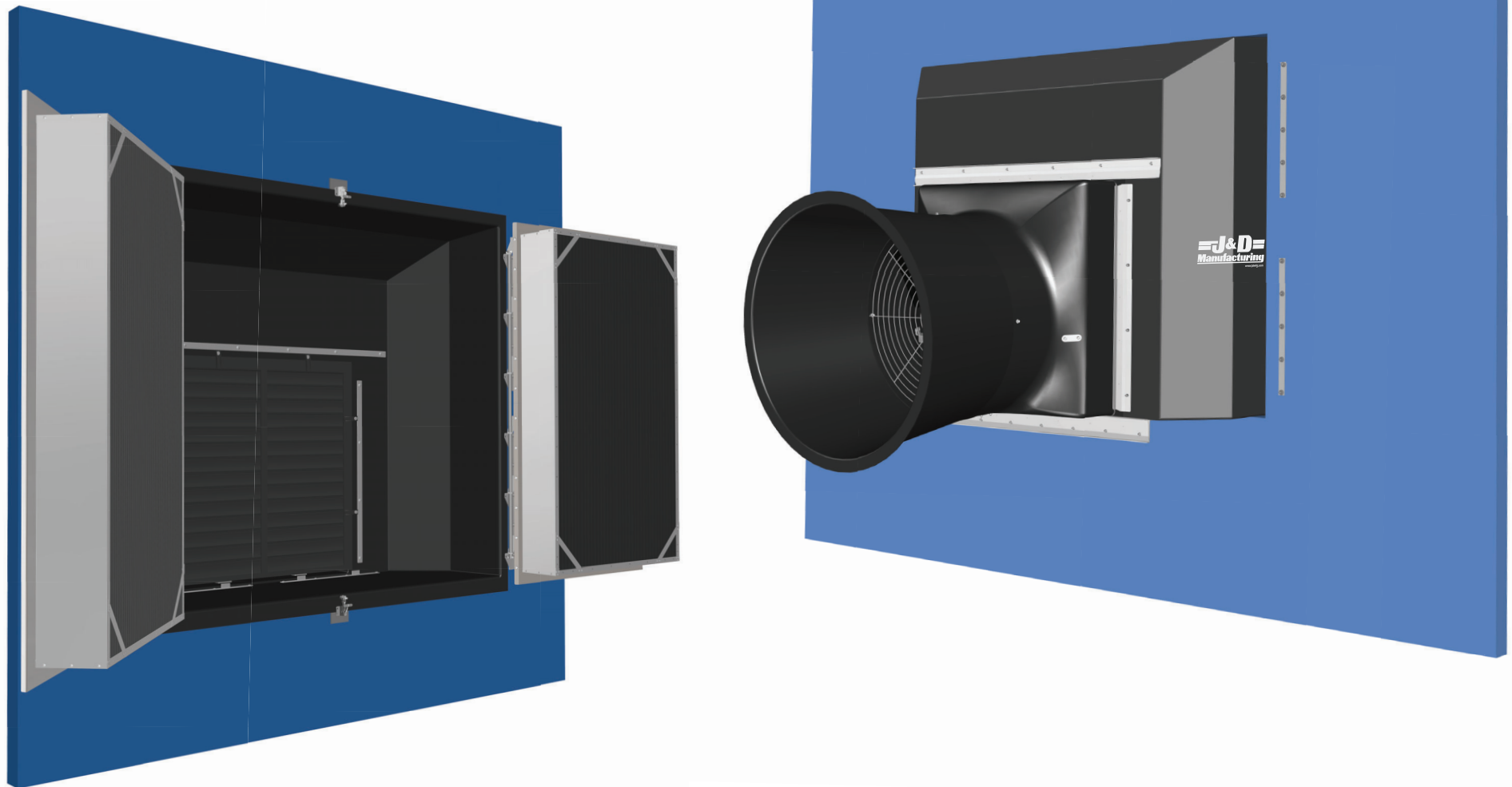


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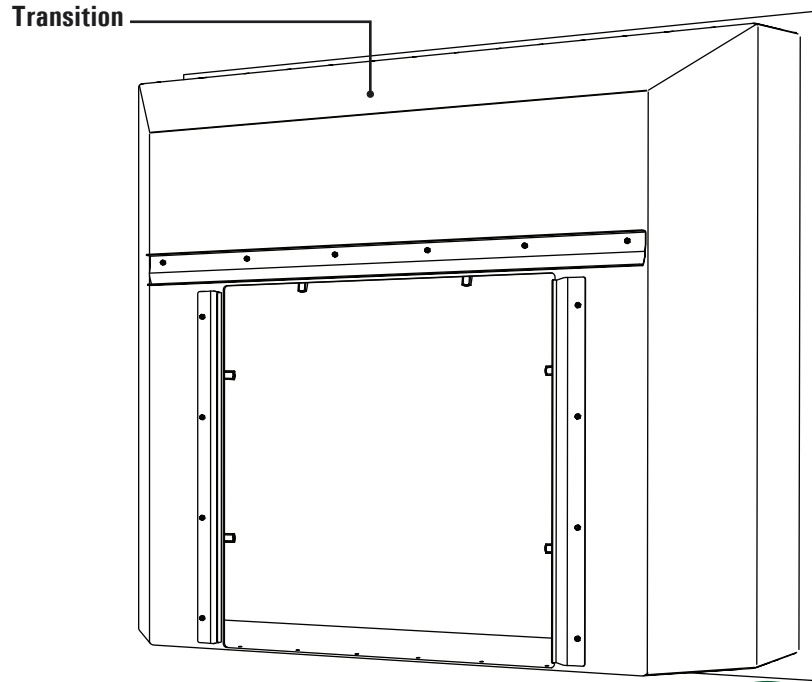
WARRANTY

J&D Mfg. warrants this products is 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.

INSTALLATION

Please read over ALL instructions carefully before you begin.
If you have any questions please call your local J&D reseller,
or contact J&D Manufacturing at 1-800-998-2398.

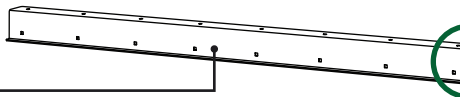
36" TRANSITION - PARTS LEGEND



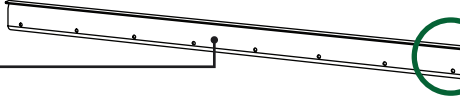
(2) Backer Brackets
Bottom Bracket "A"



Bottom Bracket "A"
for Mounting Fan



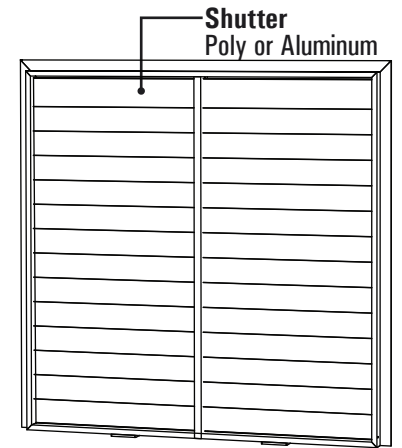
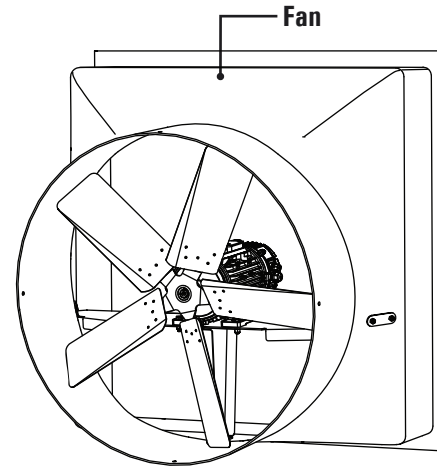
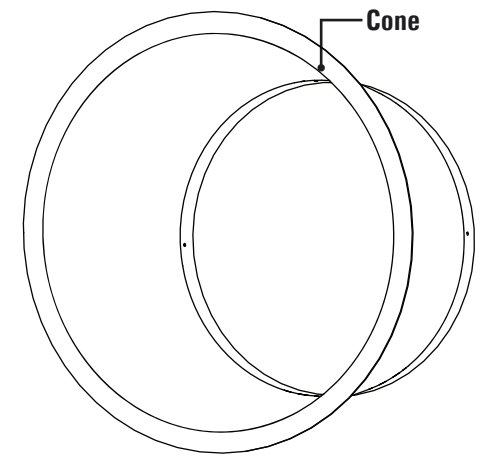
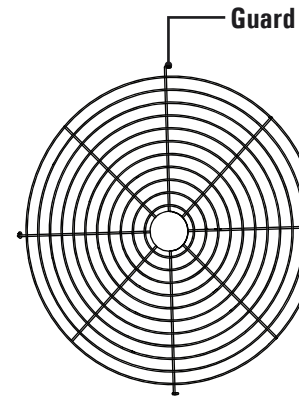
Bottom Bracket "B"
for Mounting Fan



Profile
View

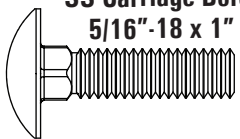
Profile
View

36" FAN - PARTS LEGEND

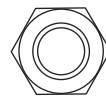


36" TRANSITION - INCLUDED ASSEMBLY HARDWARE

(16)
SS Carriage Bolts
5/16"-18 x 1"

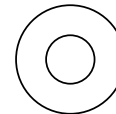


(16)
SS Nylock Nuts
5/16"-18

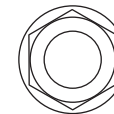


36" FAN - INCLUDED ASSEMBLY HARDWARE

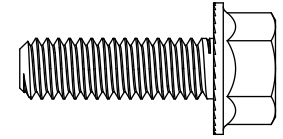
(4) Stainless-Steel
Flat Washer
3/16" #10



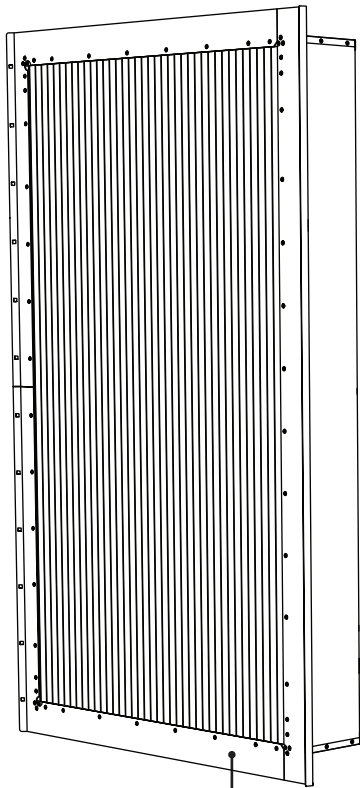
(4) Stainless-Steel
Serrated Flange Nut
5/16"-18



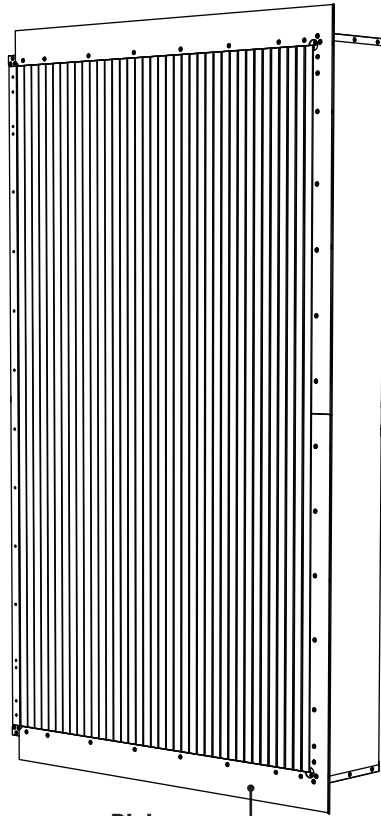
(4) Stainless-Steel
Serrated Flange Bolt
5/16"-18 x 1"



LIGHT TRAP - PARTS LEGEND



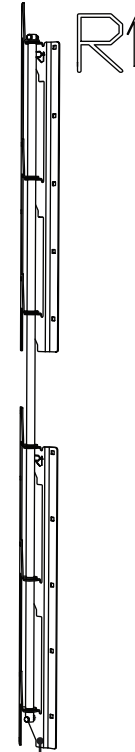
Left
Light Trap Door
with Lip



Right
Light Trap Door



Left
Door
Hinge



Right
Door
Hinge



(4) Hinge
Backer
Plates

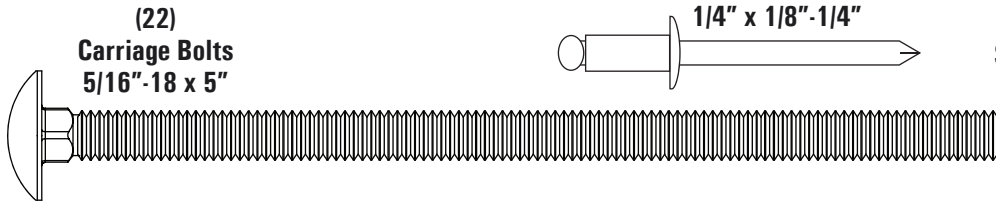


(1) Spring Loaded
Bolt Latch

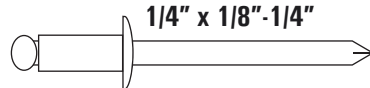


(1) Latch
Locking Plate

LIGHT TRAP - INCLUDED ASSEMBLY HARDWARE



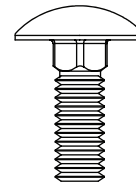
(22)
Carriage Bolts
5/16"-18 x 5"



(2)
Aluminum Rivet
1/4" x 1/8"-1/4"



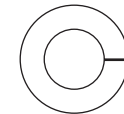
(24)
SS Nylock Nuts
5/16"-18



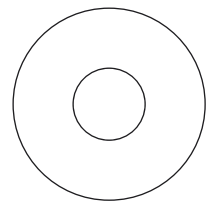
(24)
SS Carriage Bolts
5/16"-18 x 3/4"



(22)
Hex Nuts
5/16"-18



(22)
Split Lock
Washers
5/16"



(22)
Flat Washers
3/8" x 1"

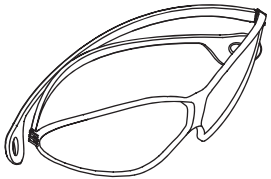
ADDITIONAL ITEM NEEDED - (NOT PROVIDED)

1/2" X ~6" x ~4'
Spacer Board

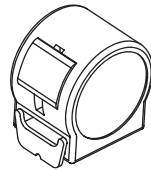


RECOMMENDED TOOLS FOR INSTALLATION AND ASSEMBLY (NOT PROVIDED)

Safety Glasses



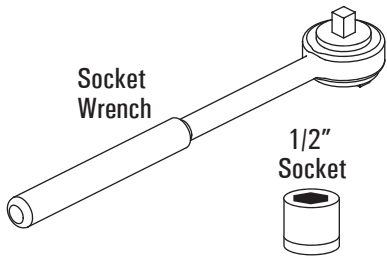
Measuring Tape



5/16"
Drill Bit

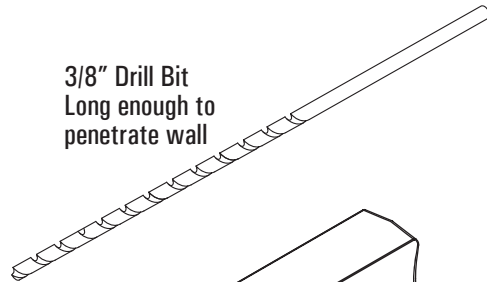


Socket
Wrench

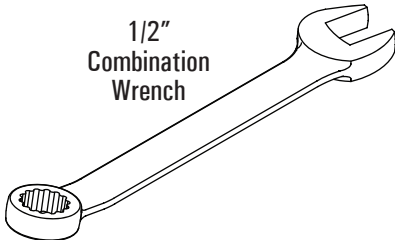


1/2"
Socket

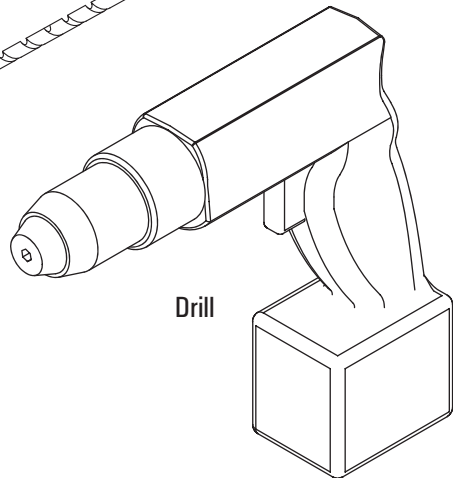
3/8" Drill Bit
Long enough to
penetrate wall



1/2"
Combination
Wrench



Drill



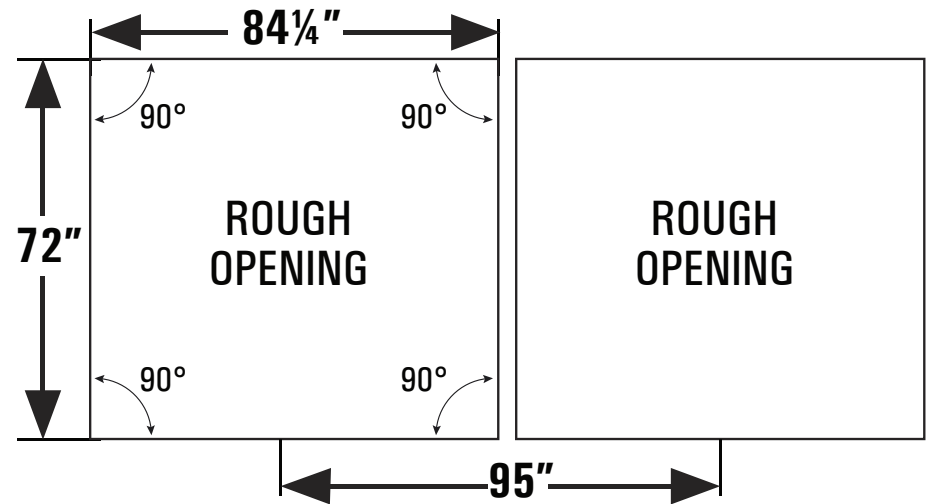
Site Requirements:

- 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 not covered by warranty.

Common industry standard solutions are

- > Extending roof eave 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

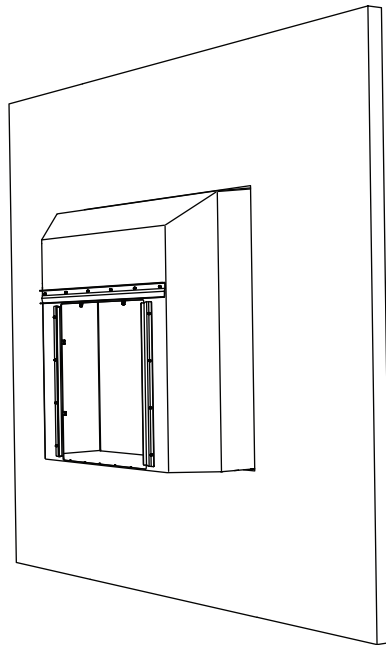
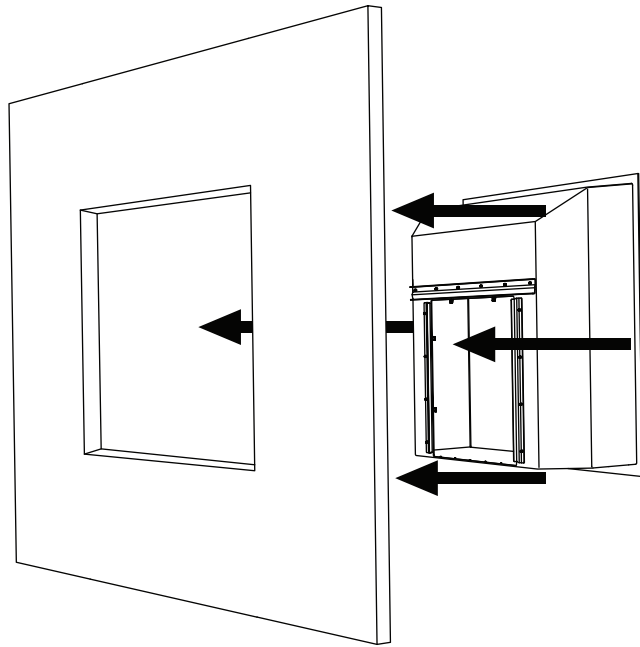
* The depth of J&D's 36" Light Trap Combination System is 79"



1

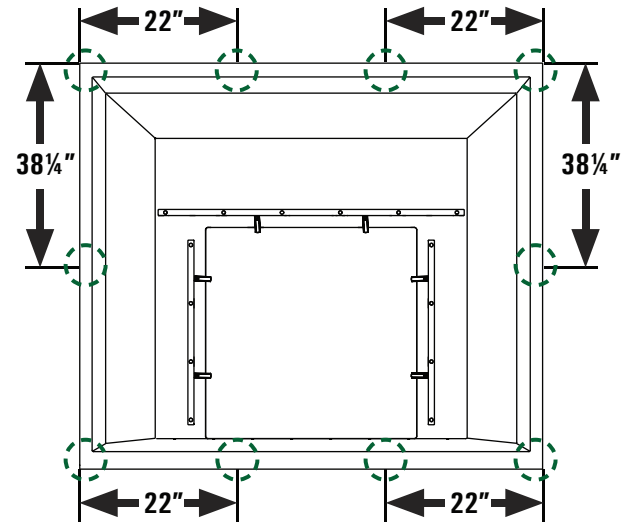
Installing and Securing Transition in Opening:

- Insert transition into rough opening as shown below

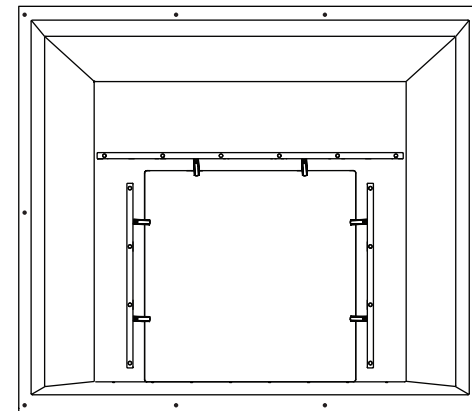


2

- 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)



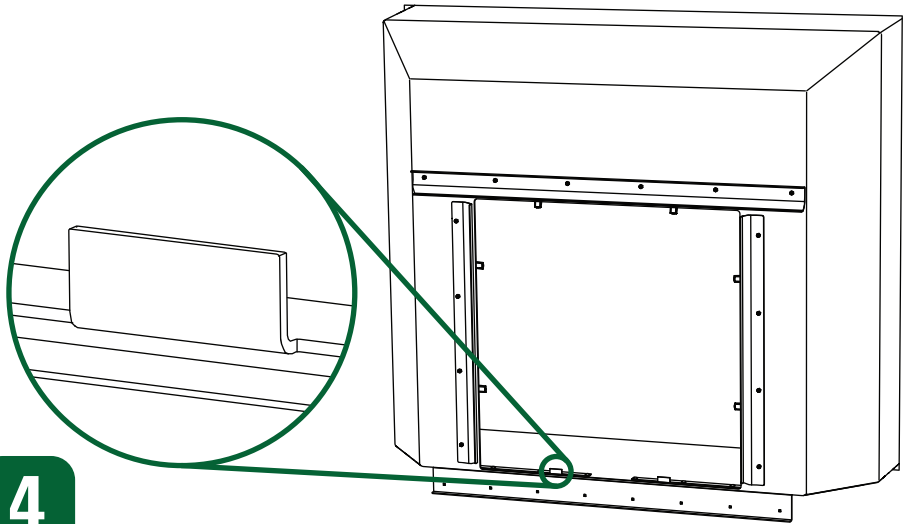
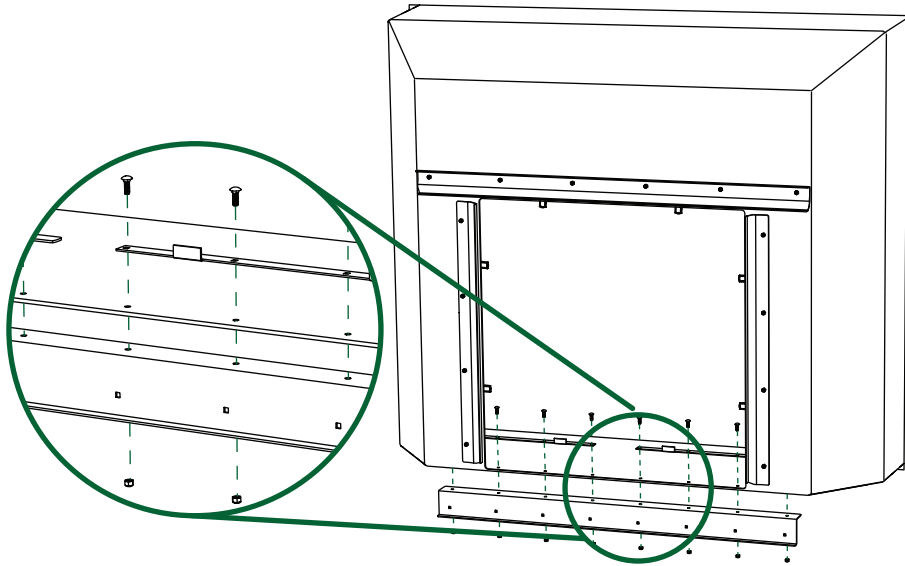
3



Attaching Bottom Brackets to Transition:

- Using (8) 5/16"-18 x 1" SS Carriage Bolts, (8) 5/16"-18 SS Nylock Nuts, (2) Backer Brackets with Shutter Restraint*, secure the Bottom Bracket "A" to bottom of the transition, as shown below.

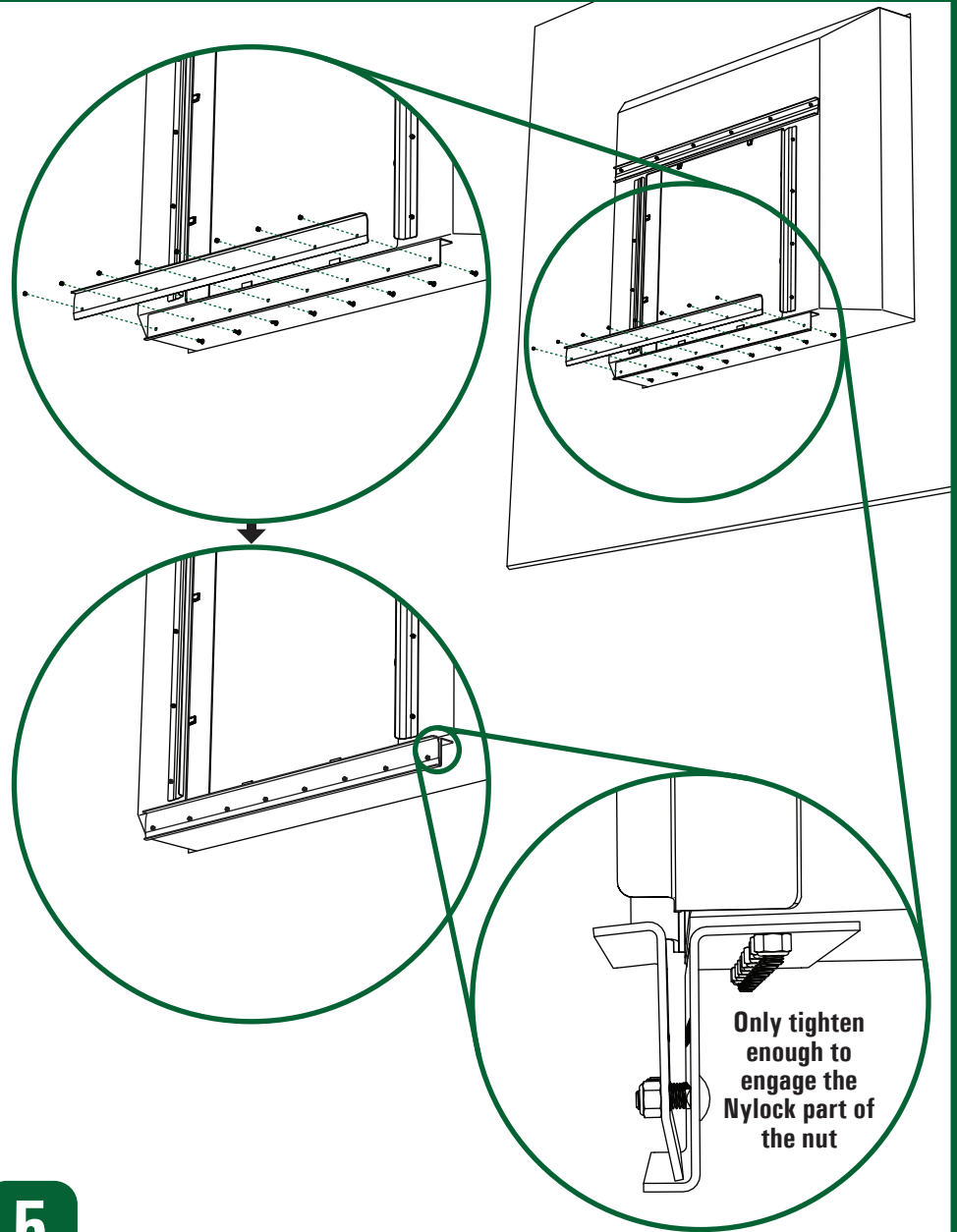
*NOTE: Tabs of Center Backer Bracket with Shutter Restraint should face the towards the outside of the transition as shown in the close up below.



4

- 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

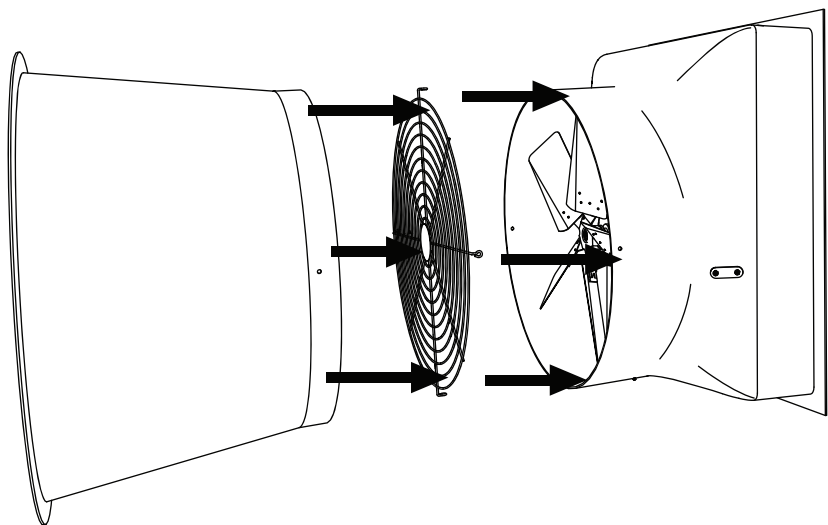


5

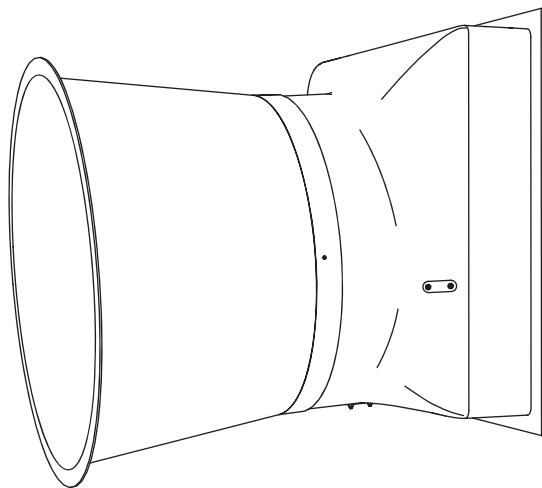
NOTE: Fan assembly can be completed either before installation into the transition or after housing is mounted in the transition. Site accessibility, available machinery, and manpower should be your deciding factor.

Attaching Cone and Guard to Fan:

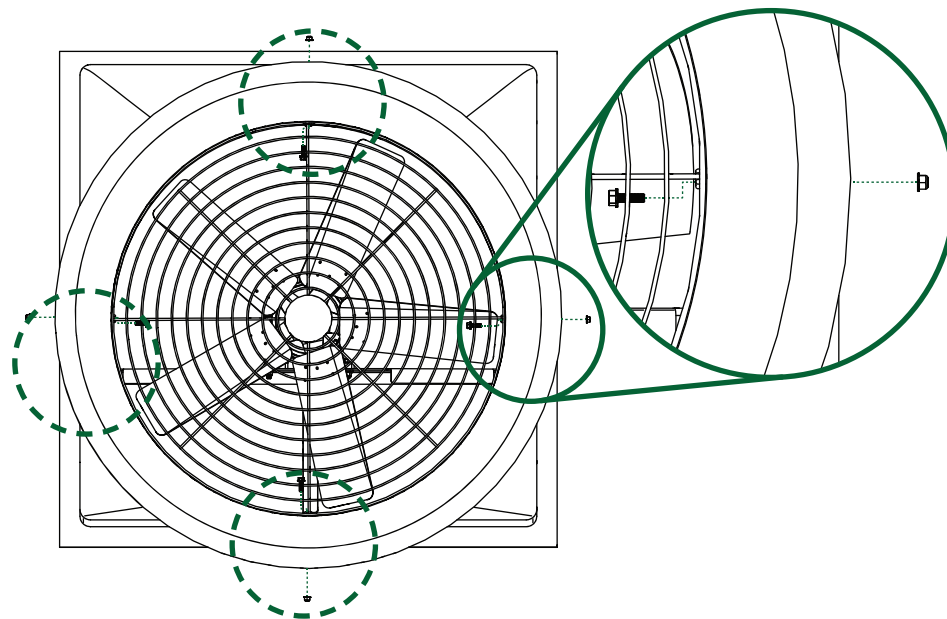
- Slide cone over the housing.
- Rotate the cone to align the pre-drilled holes in cone to the pre-drilled holes in the housing.
- Insert guard into housing and align guard feet with these same holes.



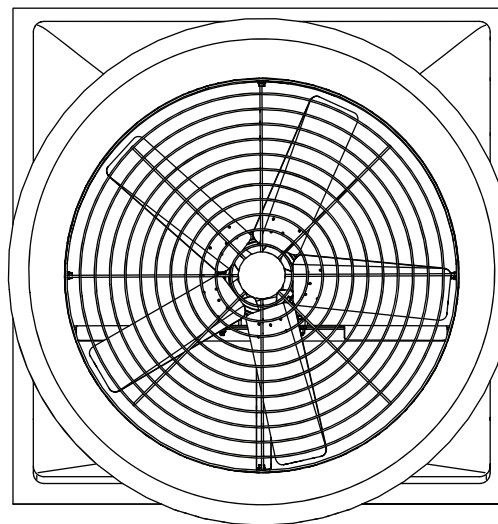
6



- Secure cone and guard to housing using (4) SS **Serrated Flange Bolts** 5/16"-18 x 1" and (4) SS **Serrated Flange Nuts** 5/16"-18, as shown below.
- Insert bolts from the interior of the cone and secure with washers and nuts on exterior, as shown below.

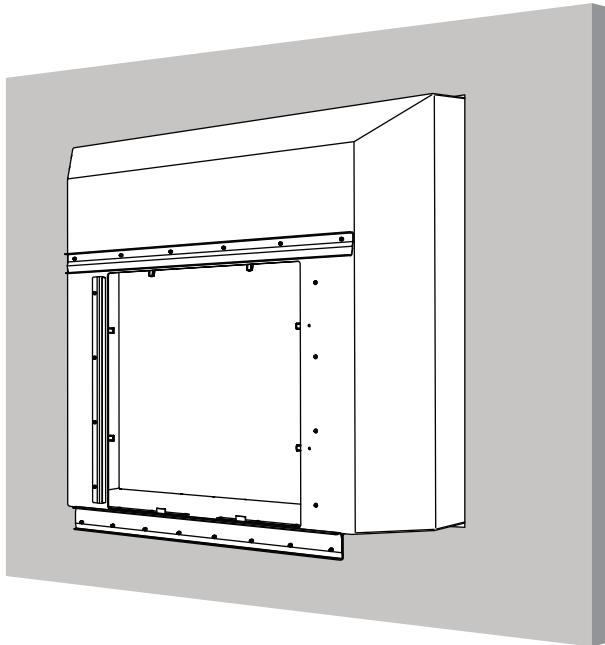
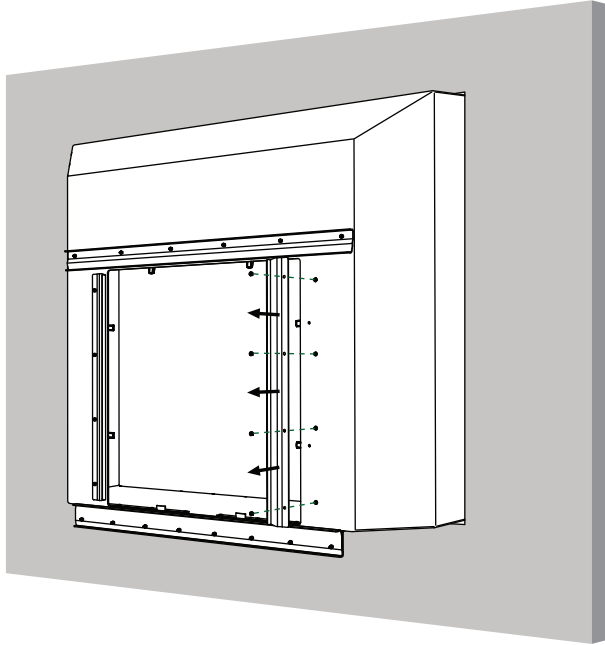


7



Prepare Transition for Mounting Fan:

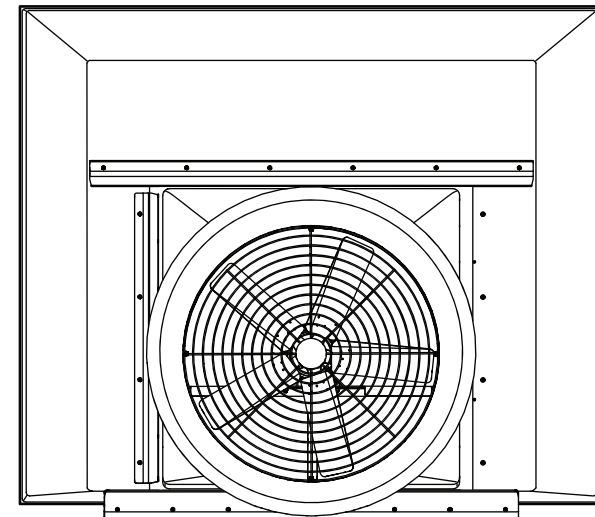
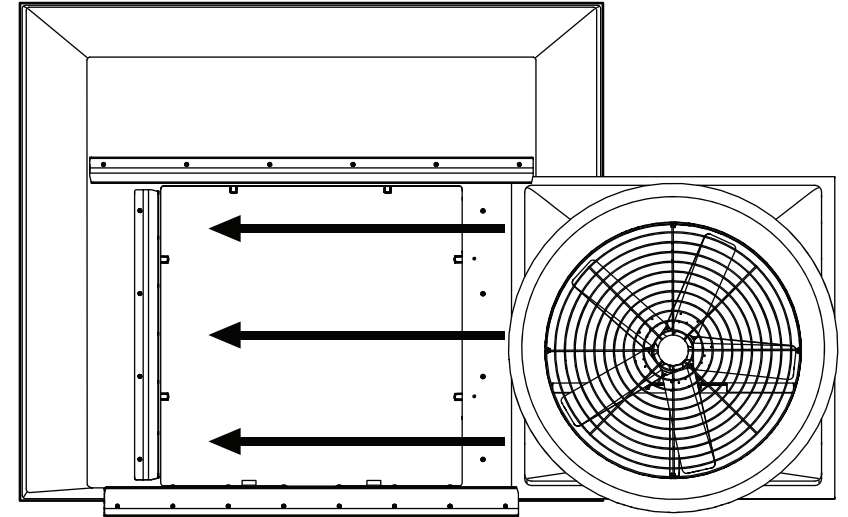
- Choose a side that you intend to mount the fan from and remove the side bracket, as shown below.



8

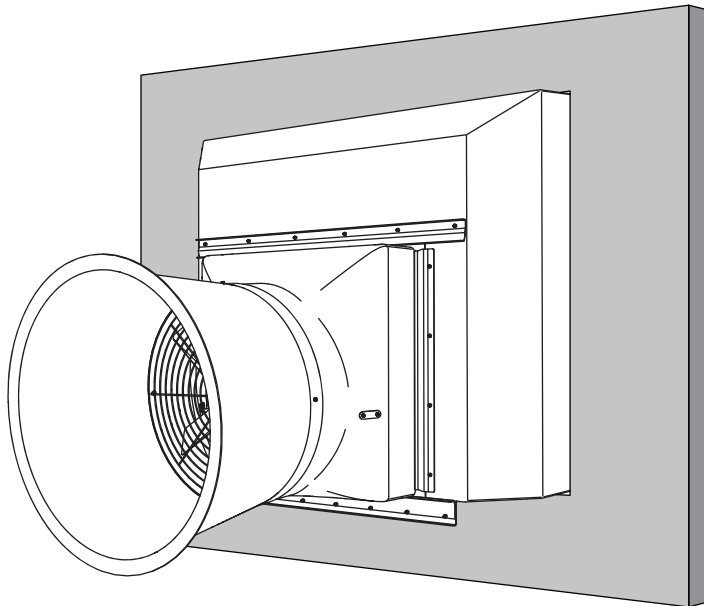
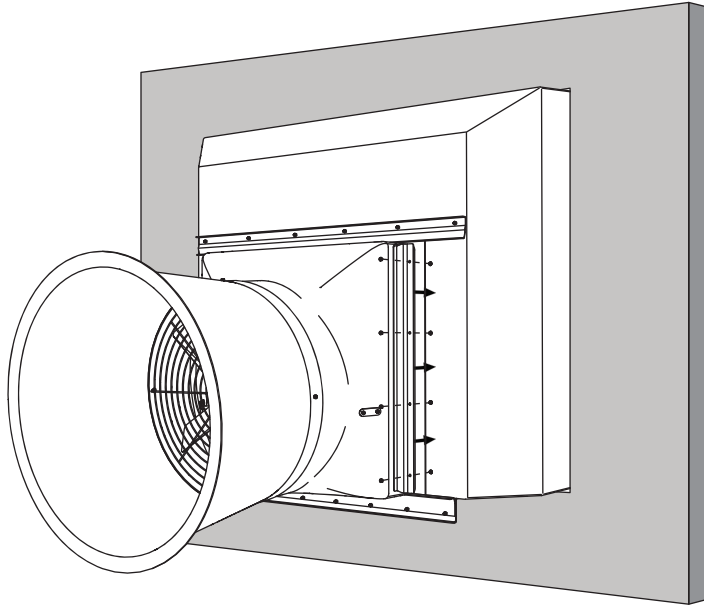
Installing Fan:

- Align flange of fan so that the bottom flange rests between Bottom Bracket "A" and Bottom Bracket "B" previously installed in **Steps 4 & 5** 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.



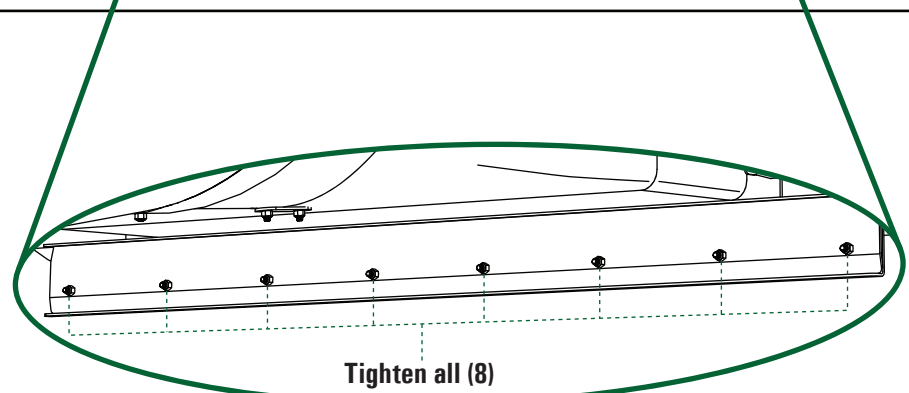
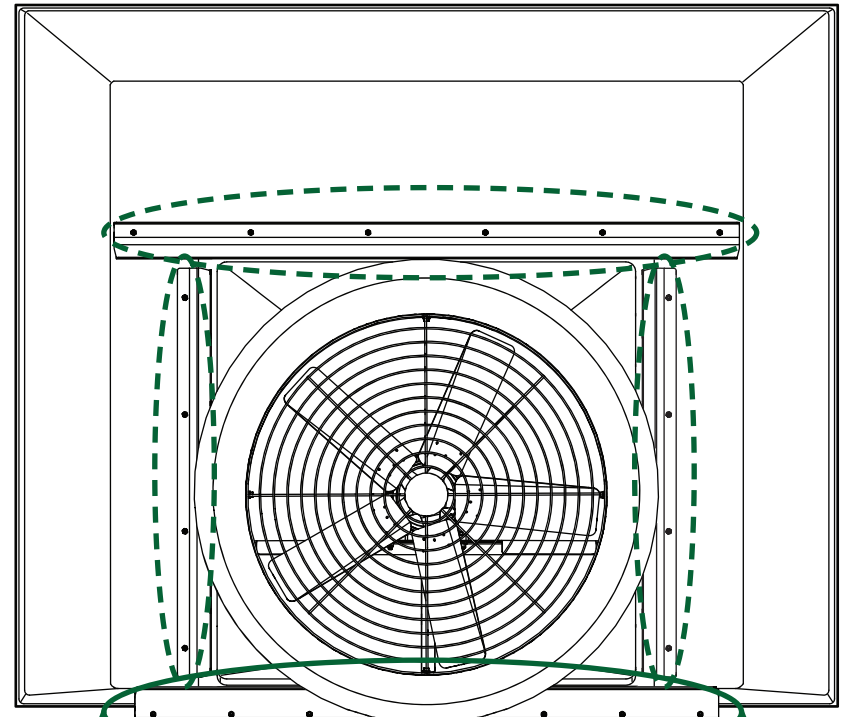
9

- Secure fan by reinstalling the side bracket removed in **Step 8**.



10

- Tighten all (8) nuts securing Bottom Bracket "B" to Bottom Bracket "A" from **Step 5**.
- Finish securing by tightening side brackets nut and top bracket nuts.

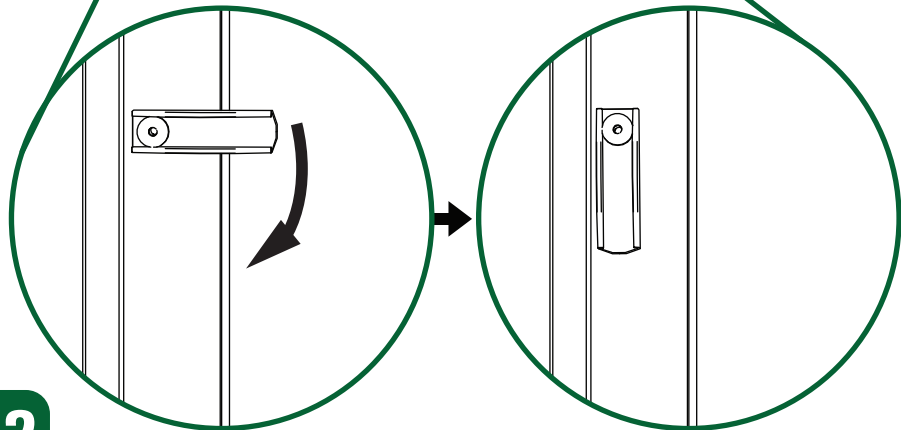
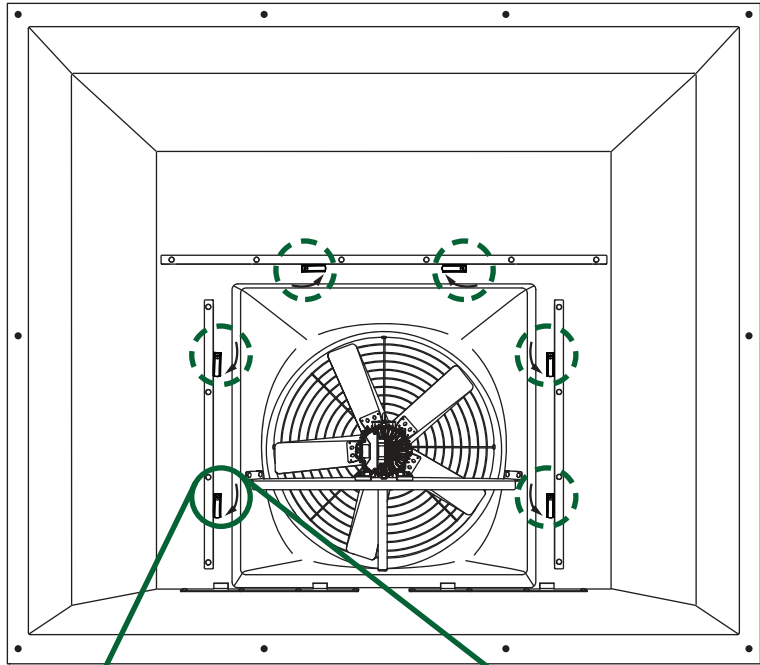


Tighten all (8)

11

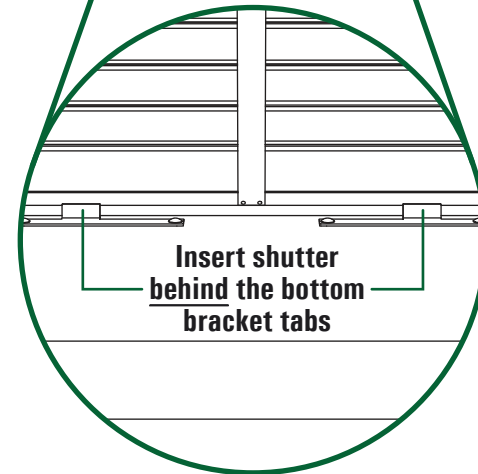
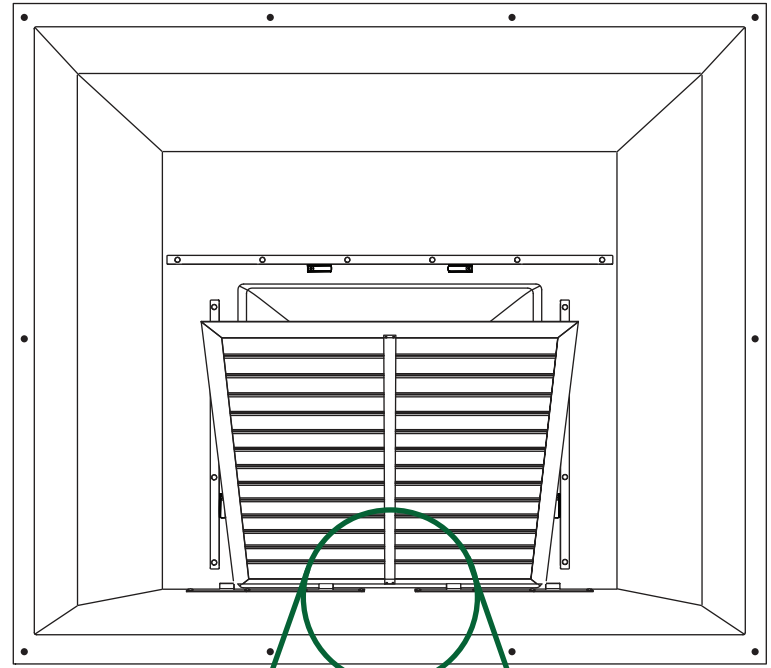
Installing the Poly or Aluminum Shutter:

- Rotate the shutter clips, as shown below.



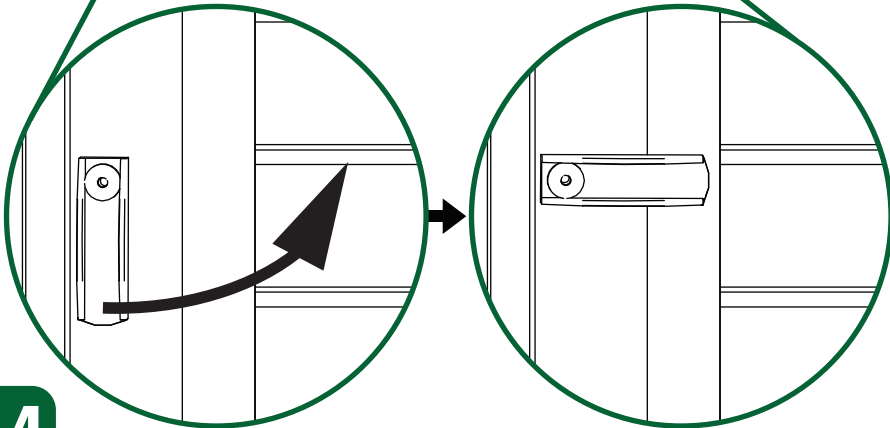
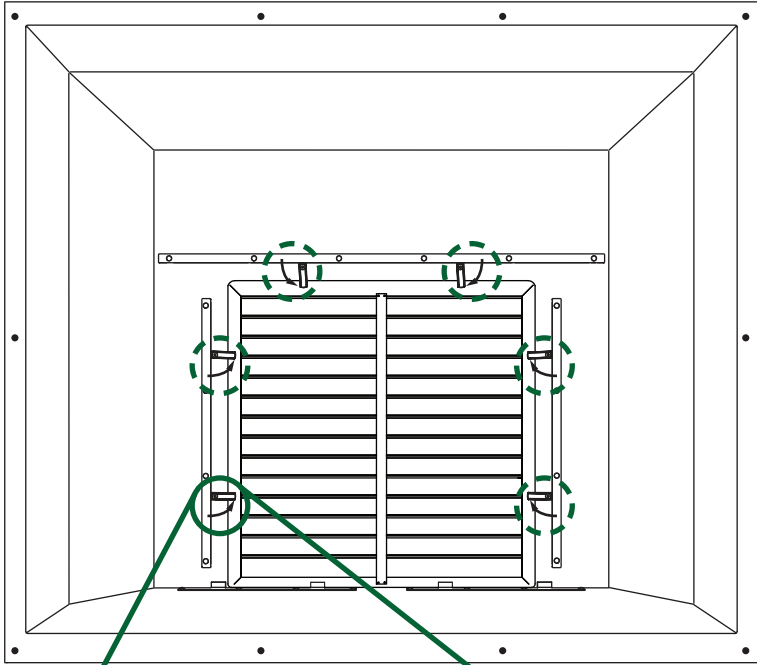
12

- Insert the bottom of the shutter behind the bottom bracket tabs, as shown below.



13

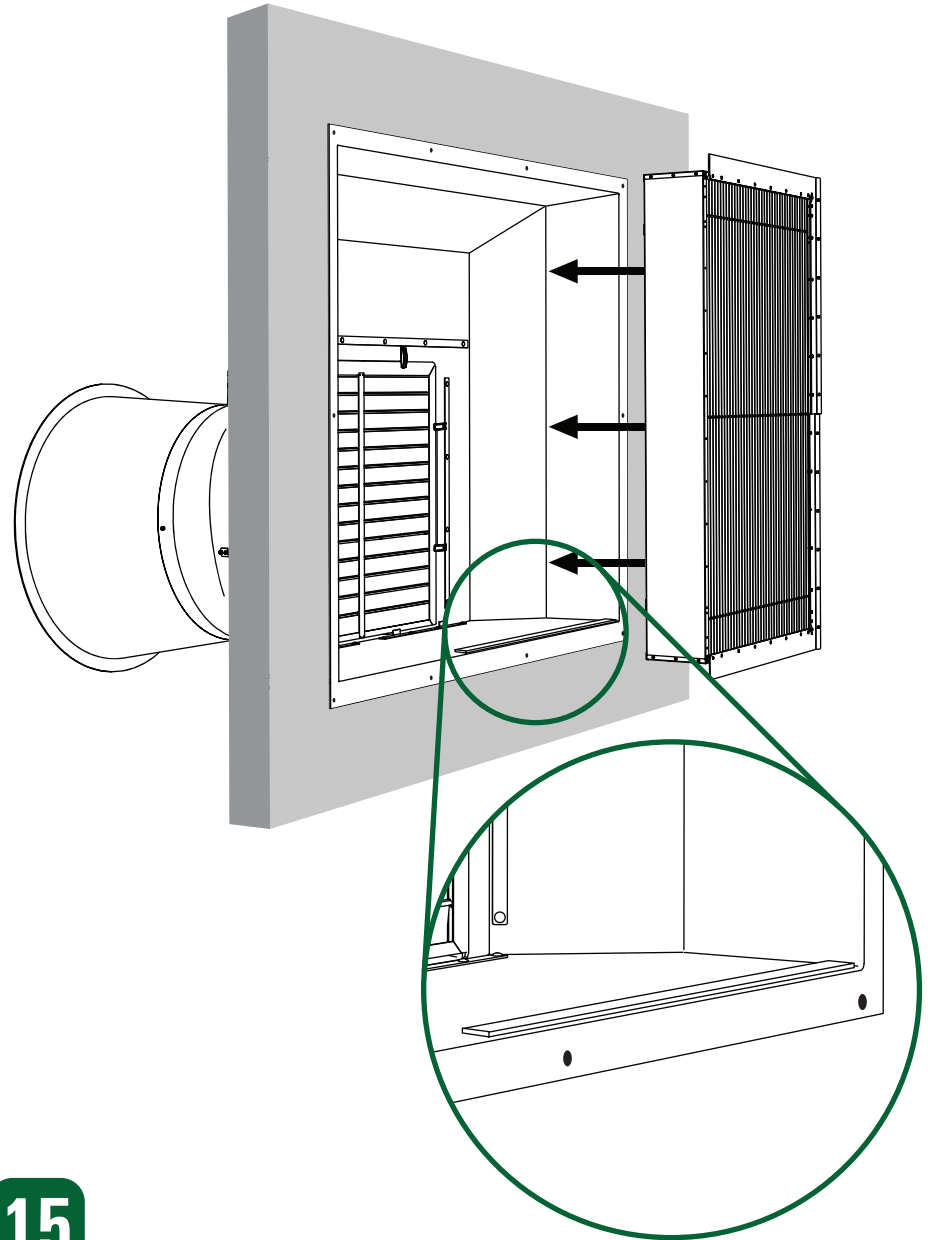
- Tilt the top of the shutter into the opening.
- Rotate the shutter clips to secure shutter into opening, as shown below.



14

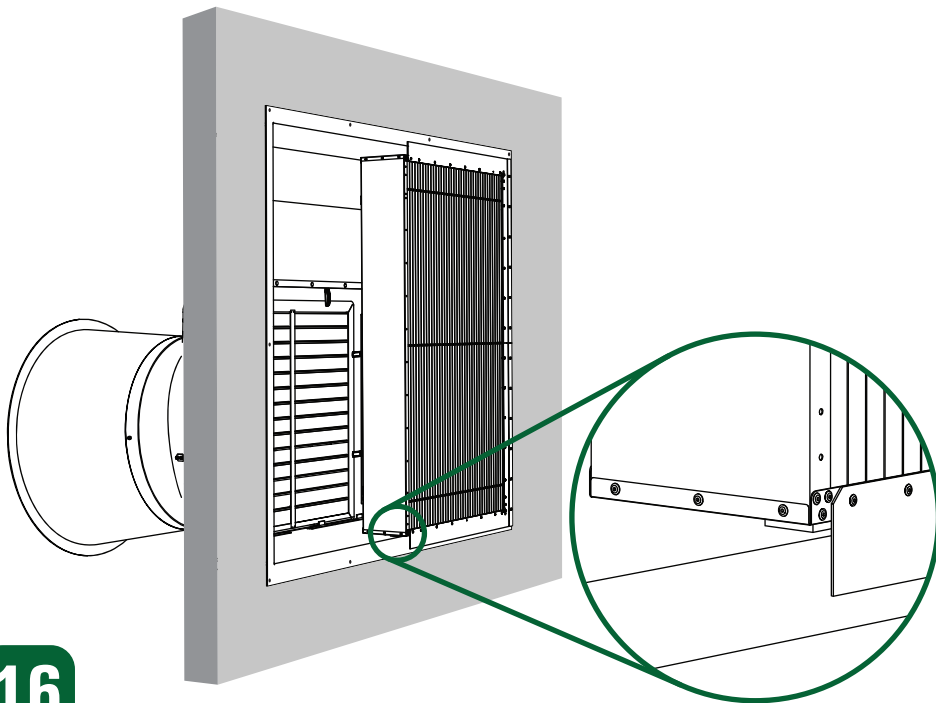
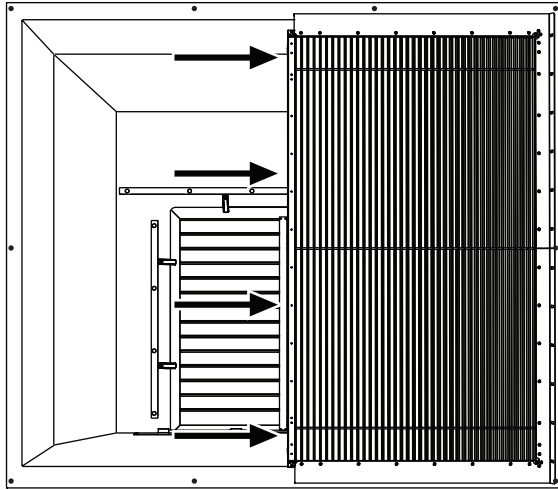
Placement of Right Light Trap Door:

- 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.



15

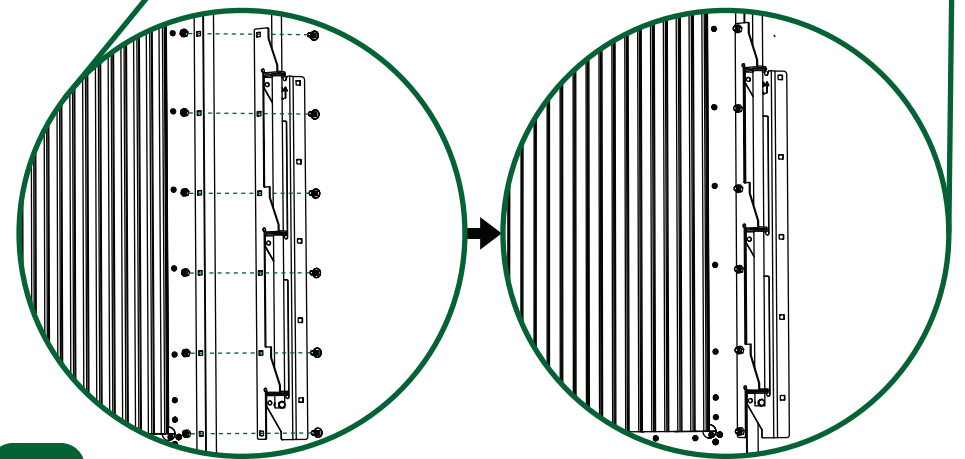
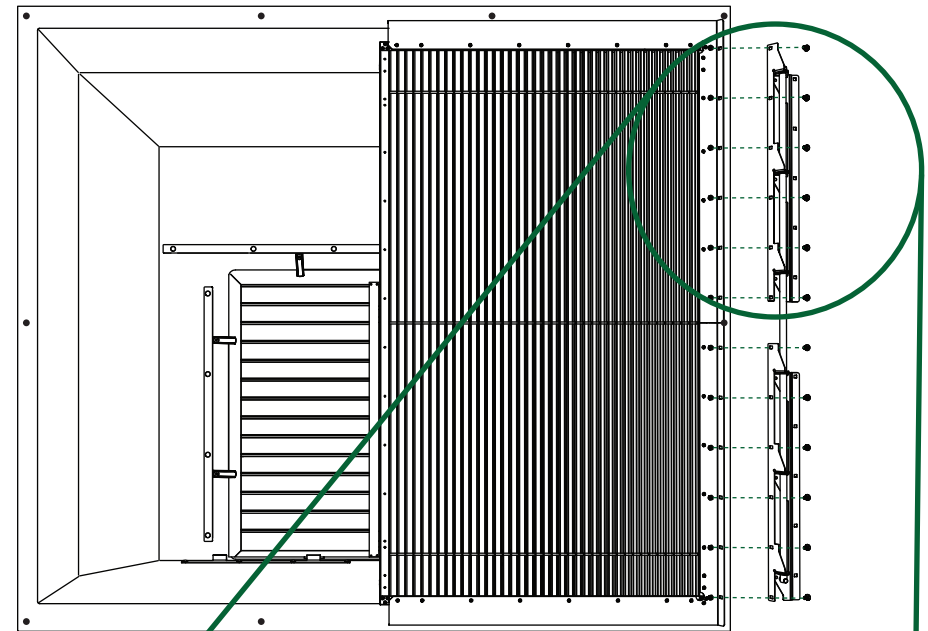
- Push right light trap door to the right so that it is tight against the transition, as shown below.
- Check placement of the 1/2" thick spacer board confirming that it is under the door.



16

Attaching Right Hinge to Right Light Trap Door:

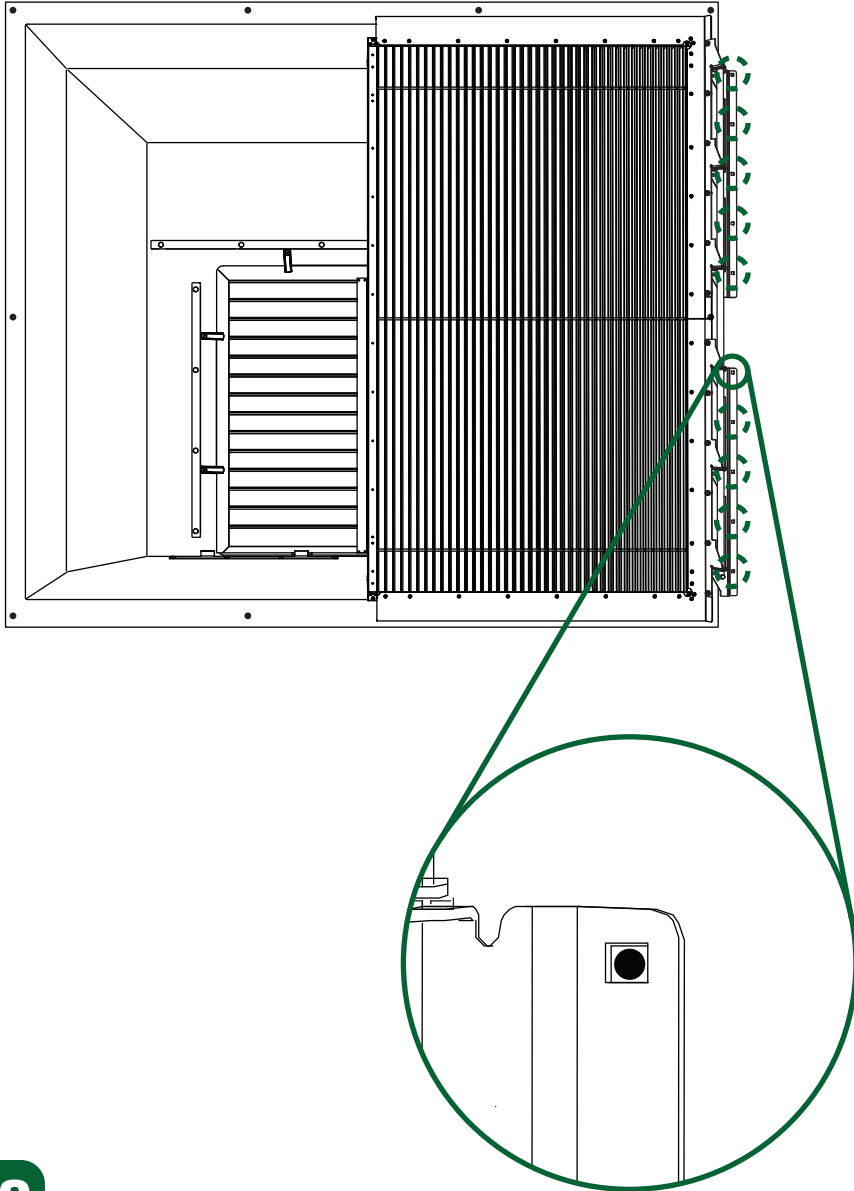
- Using (12) 5/16"-18 x 3/4" **SS Carriage Bolts** and (12) 5/16"-18 **SS Nylock Nuts** secure the right hinge to the right light trap door, as shown below.



17

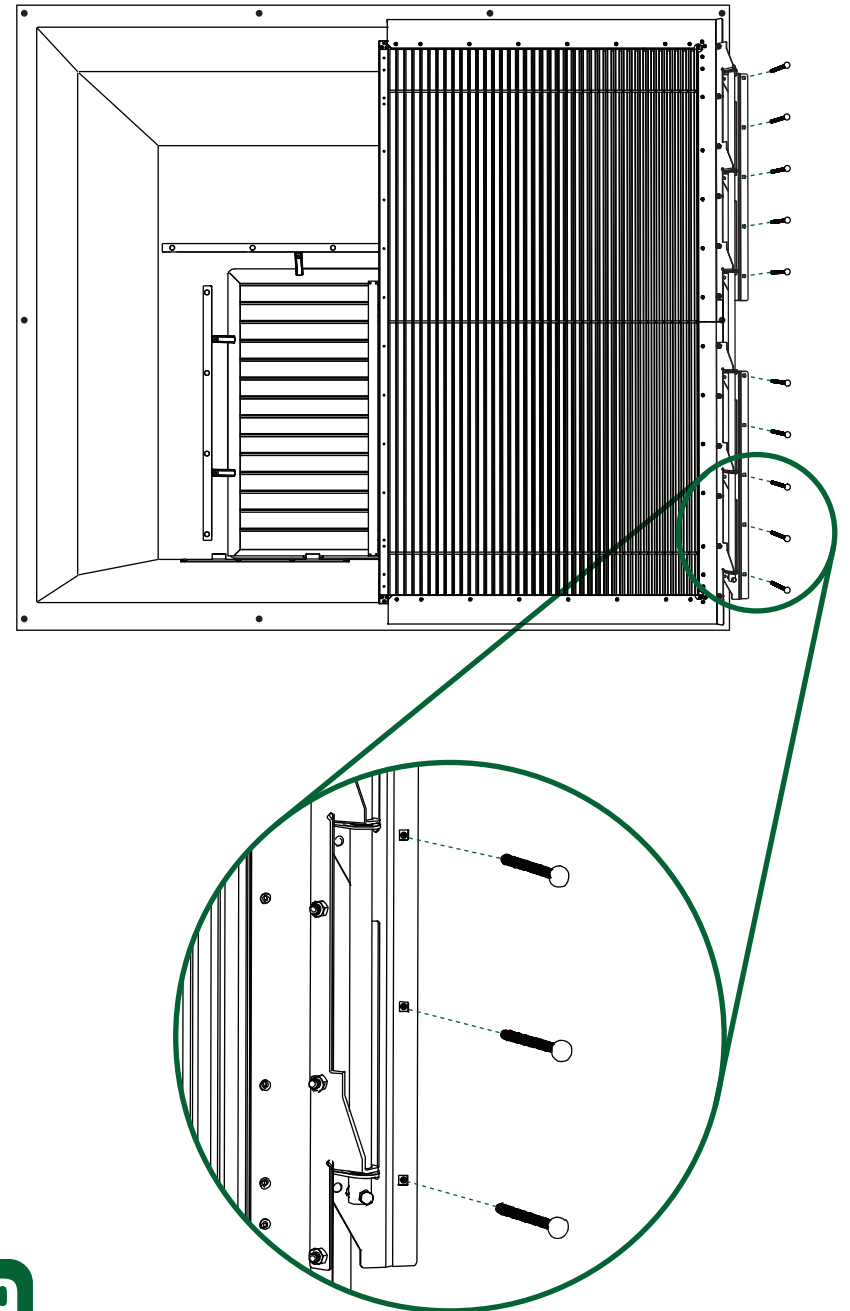
Securing Right Light Trap Door to Structure:

- 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).



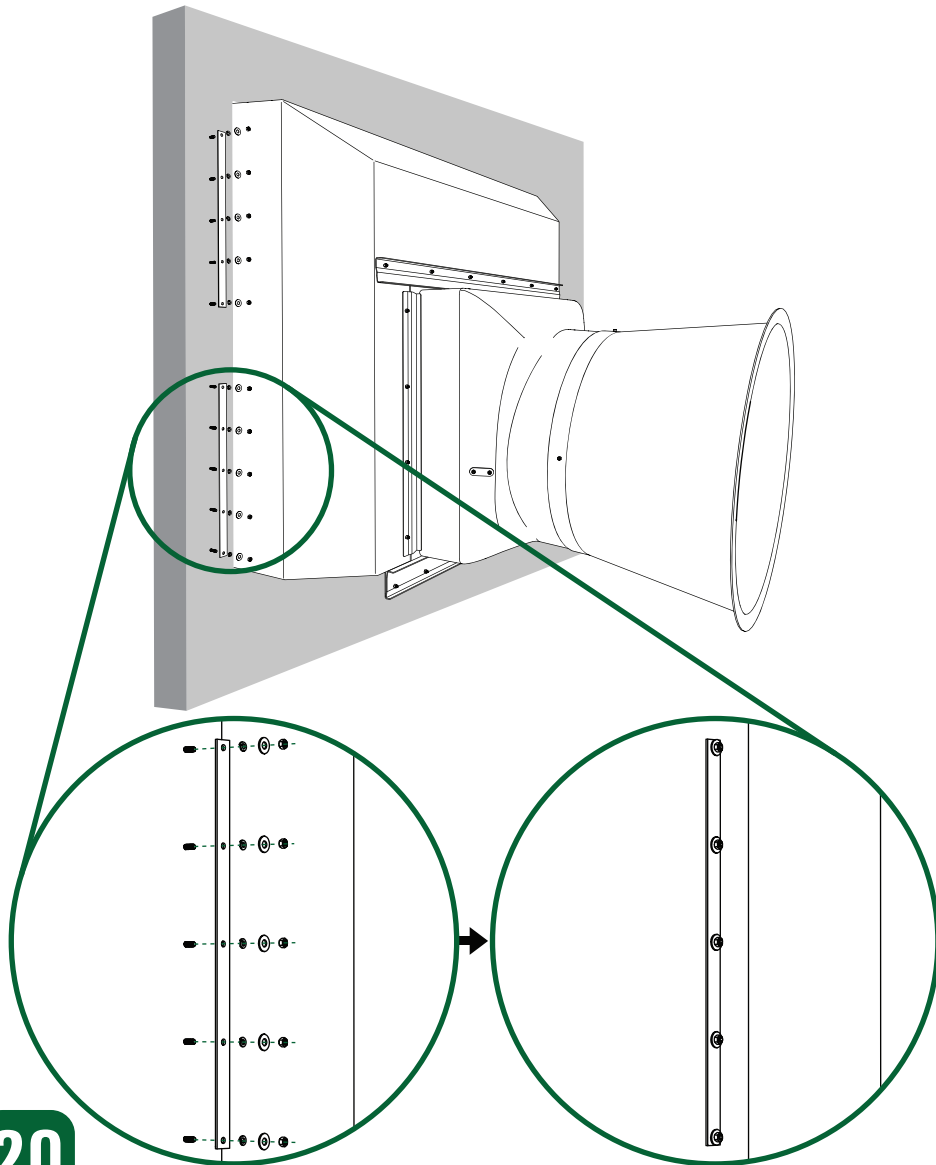
18

- Insert a 5/16"-18 x 5" Carriage Bolt into each hole drilled in Step 18, as shown below.



19

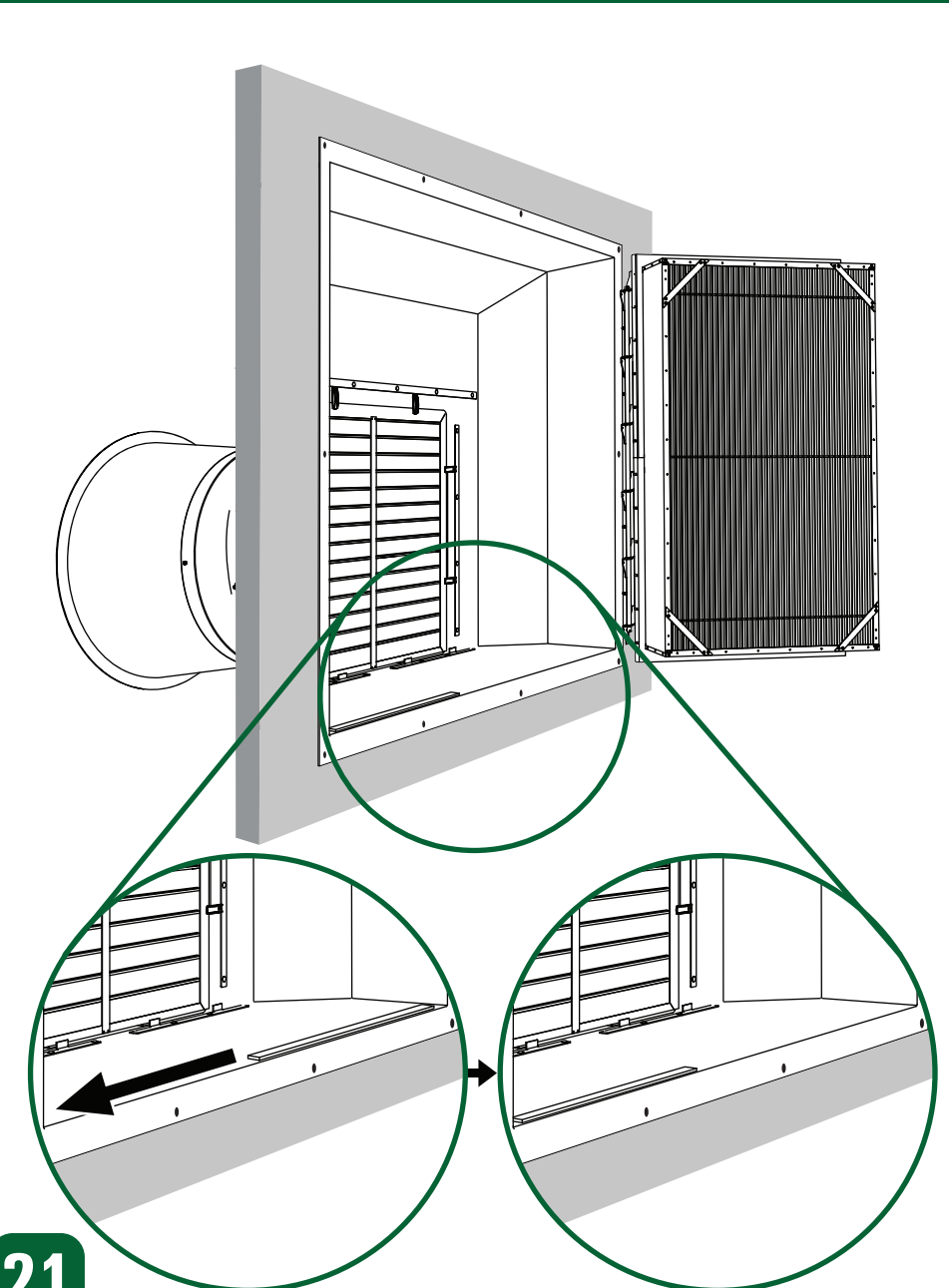
- Locate the (10) 5/16"-18 x 5" **Carriage Bolts** on the exterior of the structure that were inserted in **Step 19**.
- Place (1) **Hinge Backer Plate** on the top 5 protruding bolts and (1) **Hinge Backer Plate** on the bottom 5 protruding bolts.
- Secure both Hinge Backer Plates to 10 protruding bolts with (10) 5/16" **Split Lock Washers**, (10) 3/8" x 1" **Flat Washers**, and (10) 5/16"-18 **Hex Nuts**, as shown below.



20

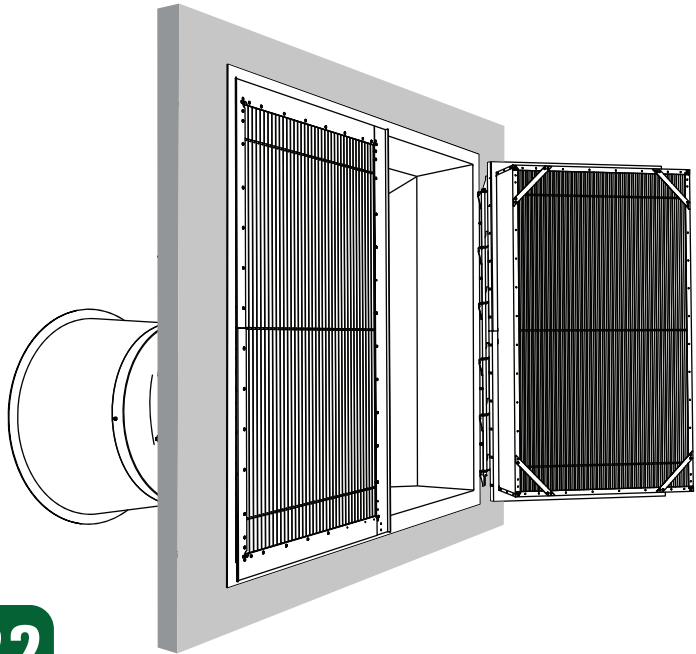
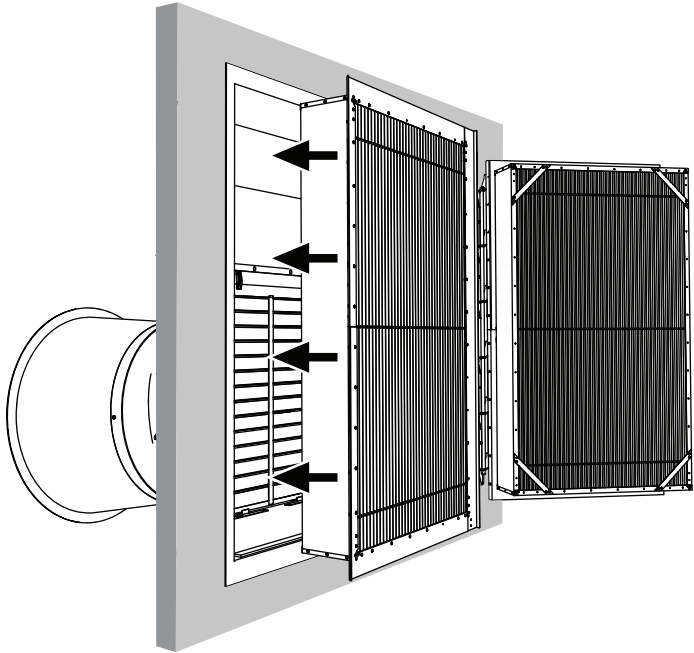
Placement of Left Light Trap Door:

- 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.



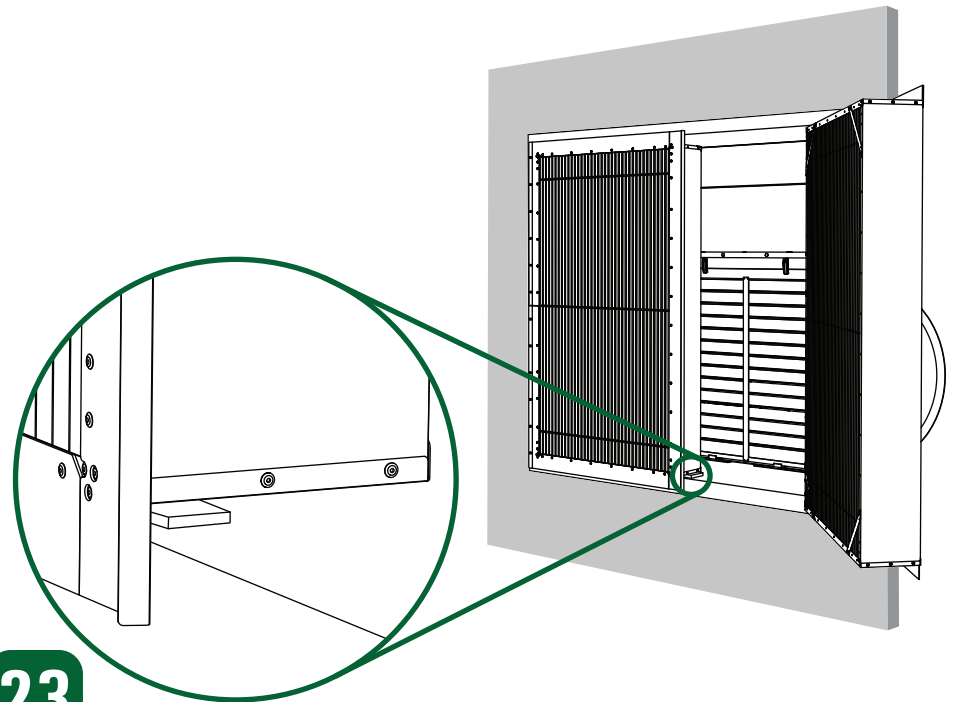
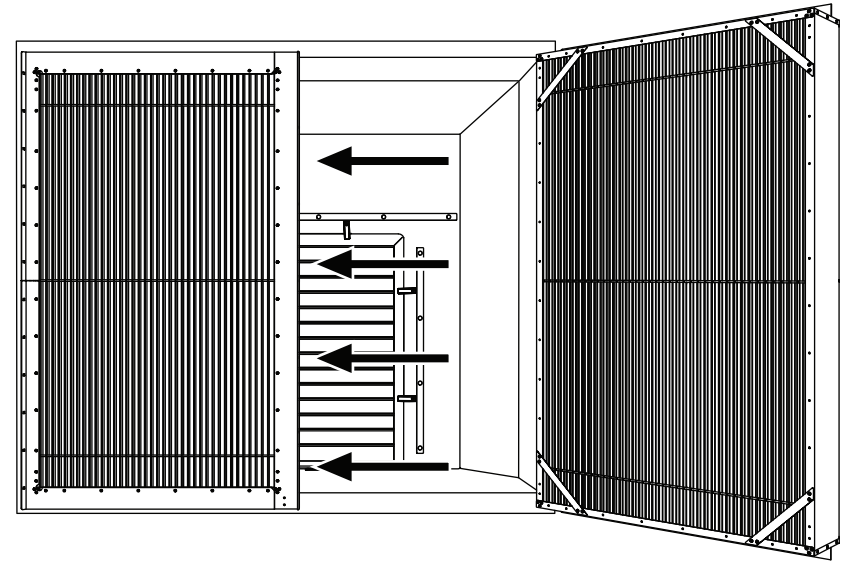
21

- Insert left light trap door into transition.



22

- Push left light trap door to the left so that it is tight against the transition, as shown below.
- Check placement of the 1/2" thick spacer board confirming that it is under the door.



23

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

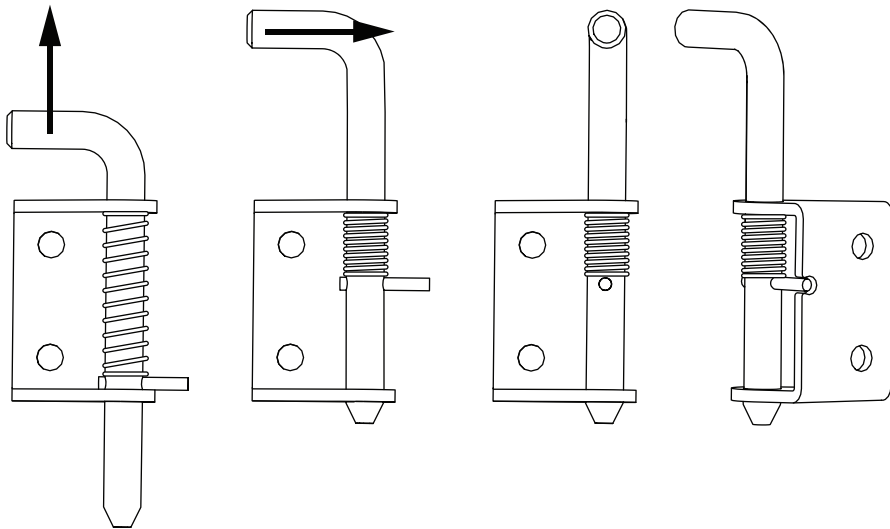
24

- Repeat **Steps 17 to 20** for attaching left hinge to left light trap door and securing hinge to building.

Spring Latch Installation:

- Prepare spring latch for installation.
- Pull up latch handle.
- Rotate latch handle until pin rests in notch as shown below.

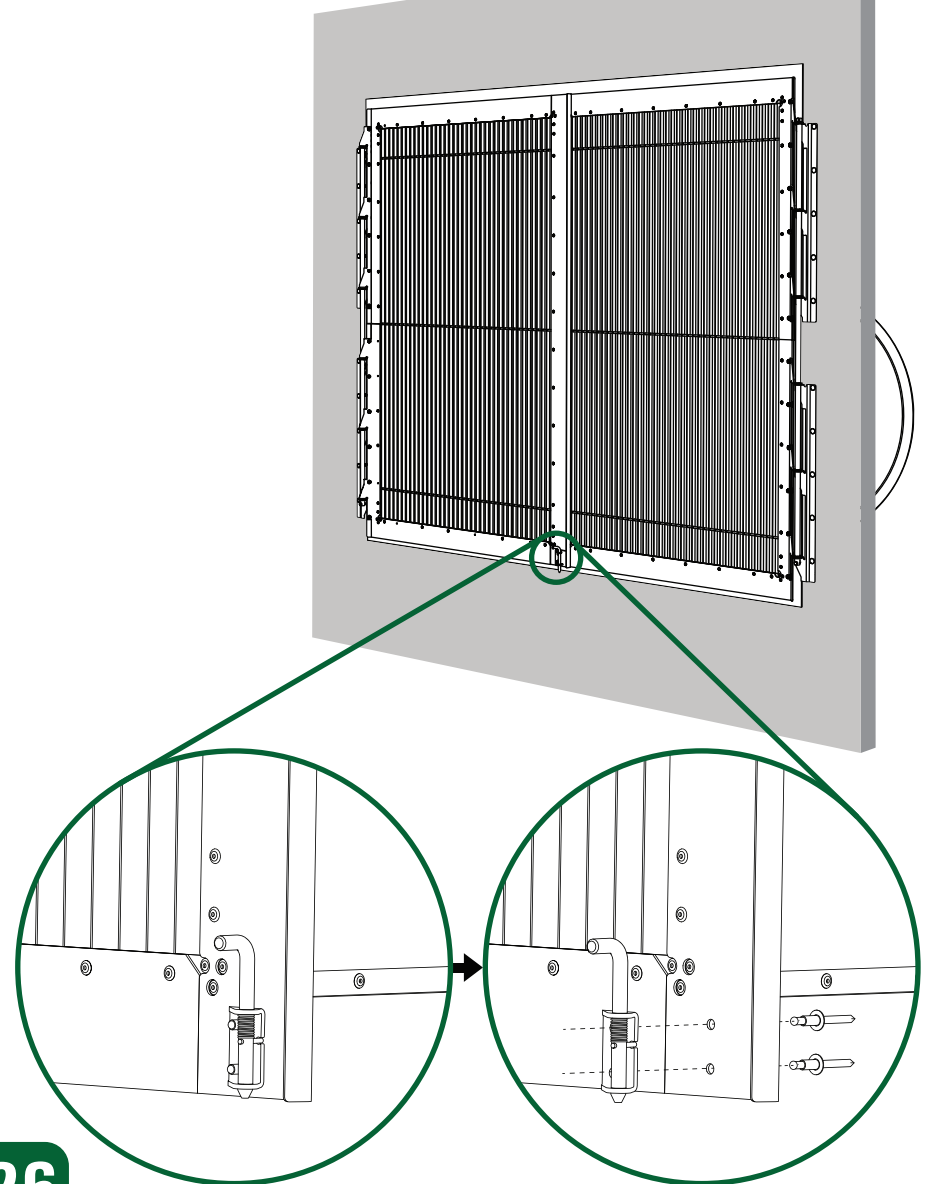
NOTE: If spring latch is not in the locked open position when installing, it may not be able to be locked in the open position once installed due to the restricted movement of the handle.



25

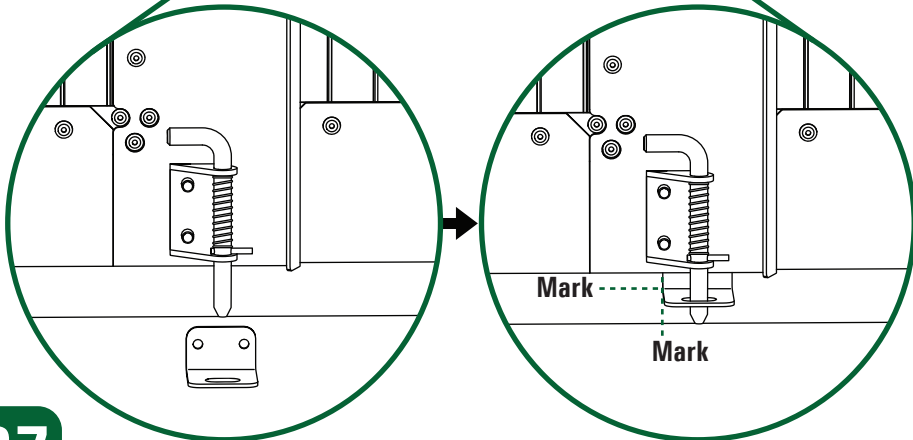
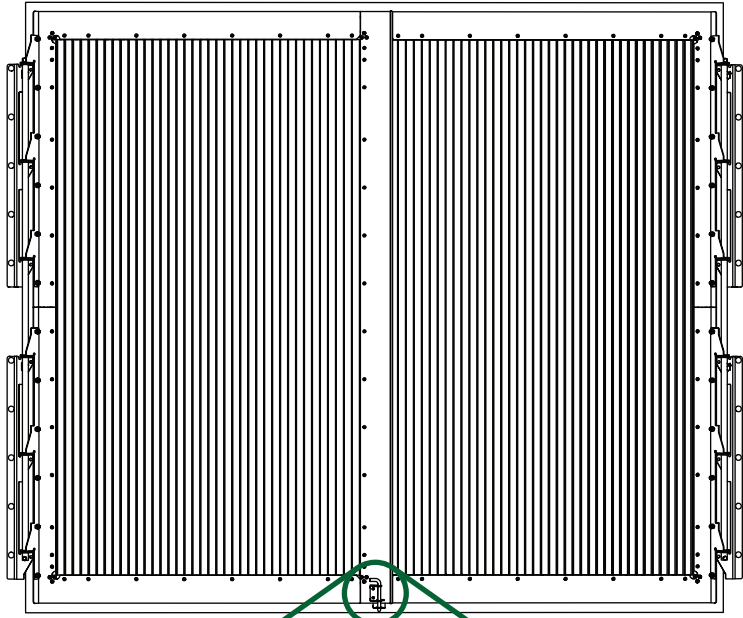
- Open left door, locate lasered holes near bottom edge of door.
- Place spring latch on exterior of door and align holes in door with mounting holes on latch.
- From interior side of door, secure spring latch to door using (2) 1/4" x 1/8"-1/4" Aluminum Rivets, as shown below.

NOTE: Incorrectly installed rivets will prevent door from closing properly.



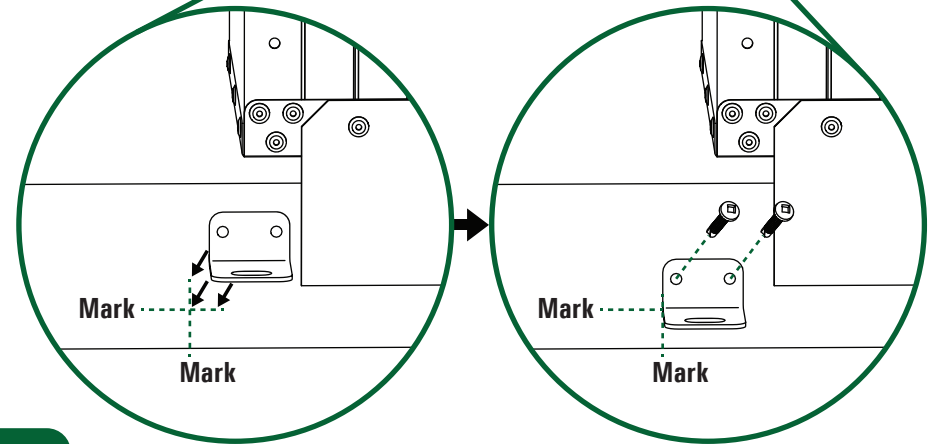
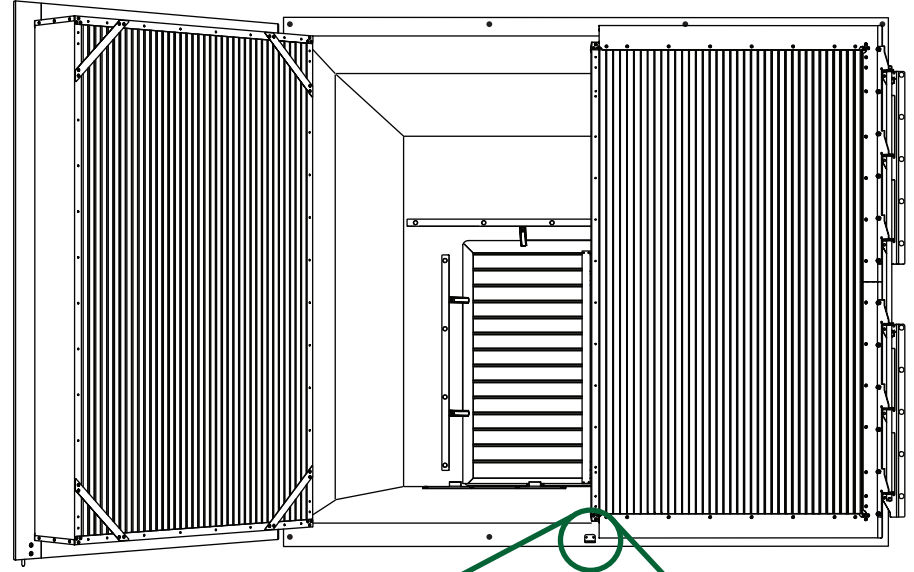
26

- Release the spring latch.
- Place latch locking plate where it will fully engage the spring latch bolt.
- Mark bottom and side placement of latch locking plate.



27

- Open the left door.
- Using the marks made in **Step 27** place latch locking plate.
- Secure latch locking plate to structure using (2) of the appropriate hardware for your building material (securing hardware is not provided).



28



DISCONNECT POWER BEFORE INSTALLING OR SERVICING.



ALL ELECTRICAL WORK SHOULD BE COMPLETED BY QUALIFIED PERSONNEL
AND MEET NATIONAL (NEC), REGIONAL AND LOCAL ELECTRIC CODES.

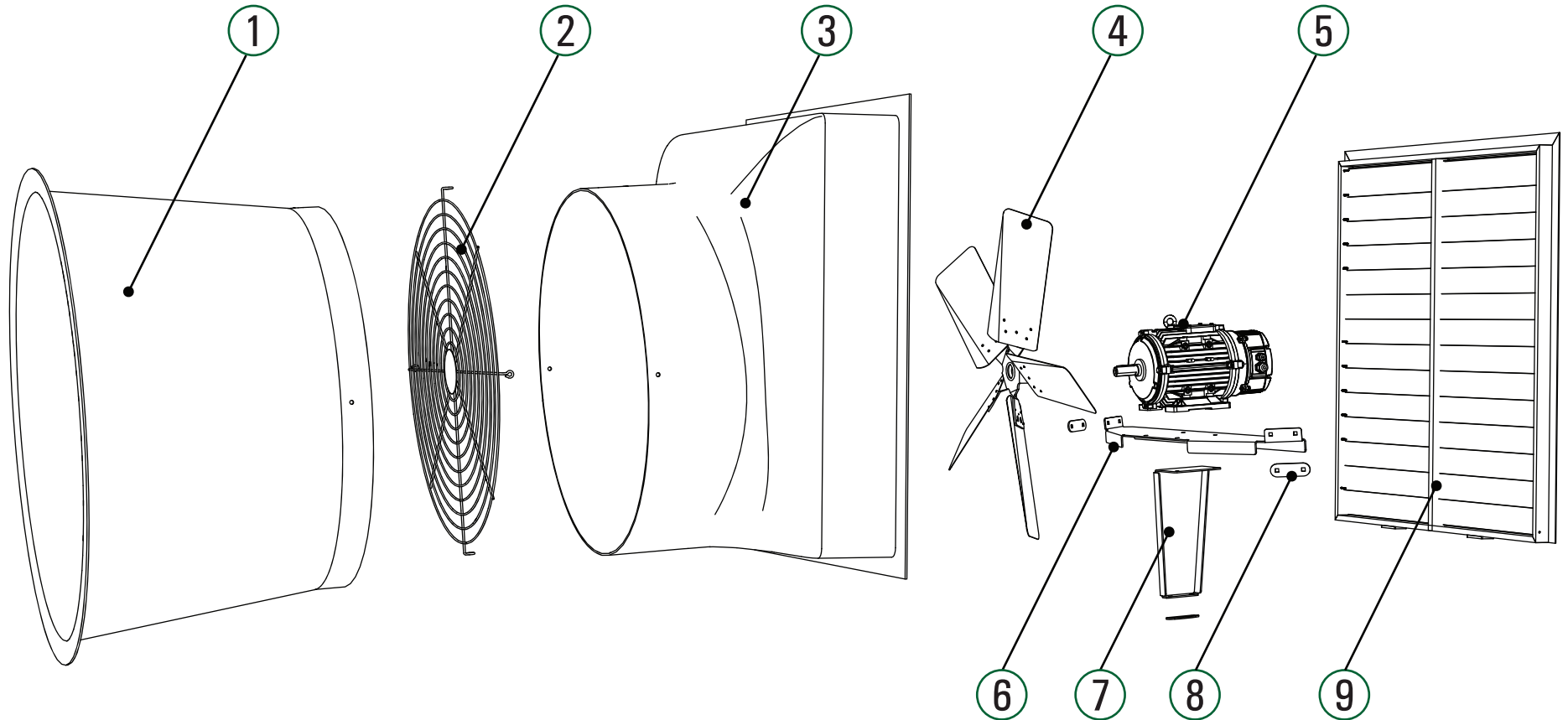
General Wiring Instructions:

- Wiring should only be performed by a trained electrician to prevent injury or death.
- Install manual disconnect switch inside building adjacent to fan.
- Route wire to motor with drip loop and secure. Drip loop will drain accumulated moisture away from the motor.
- Configure internal wires to match supply voltage and wire according to motor nameplate. Test to verify correct rotation.
- Only permit power to unit when guards are properly installed to prevent injury.

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
 - Interior of cone and housing
 - Light trap fins
 - **DO NOT pressure wash** any of the components as it can cause damage that is not covered by warranty
 - Using either water from hose at 120-150 psi max pressure and/or high volume, high pressure air

36" FAN

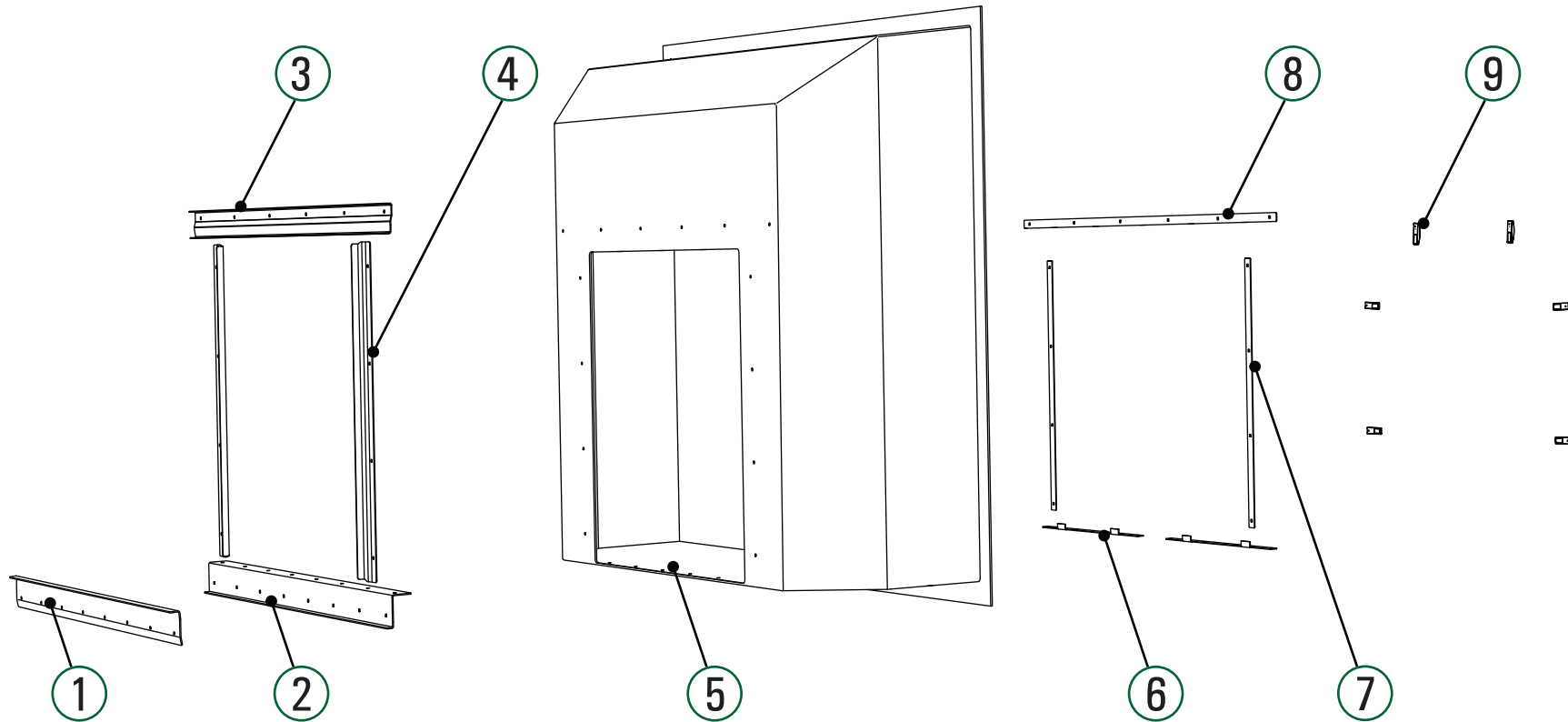


#	(Qty) Description
1	(1) Cone
2	(1) Guard
3	(1) Housing

#	(Qty) Description
4	(1) Prop
5	(1) Motor
6	(1) Horizontal Frame

#	(Qty) Description
7	(1) Vertical Frame
8	(3) Support Plates
9	(1) Shutter

36" TRANSITION

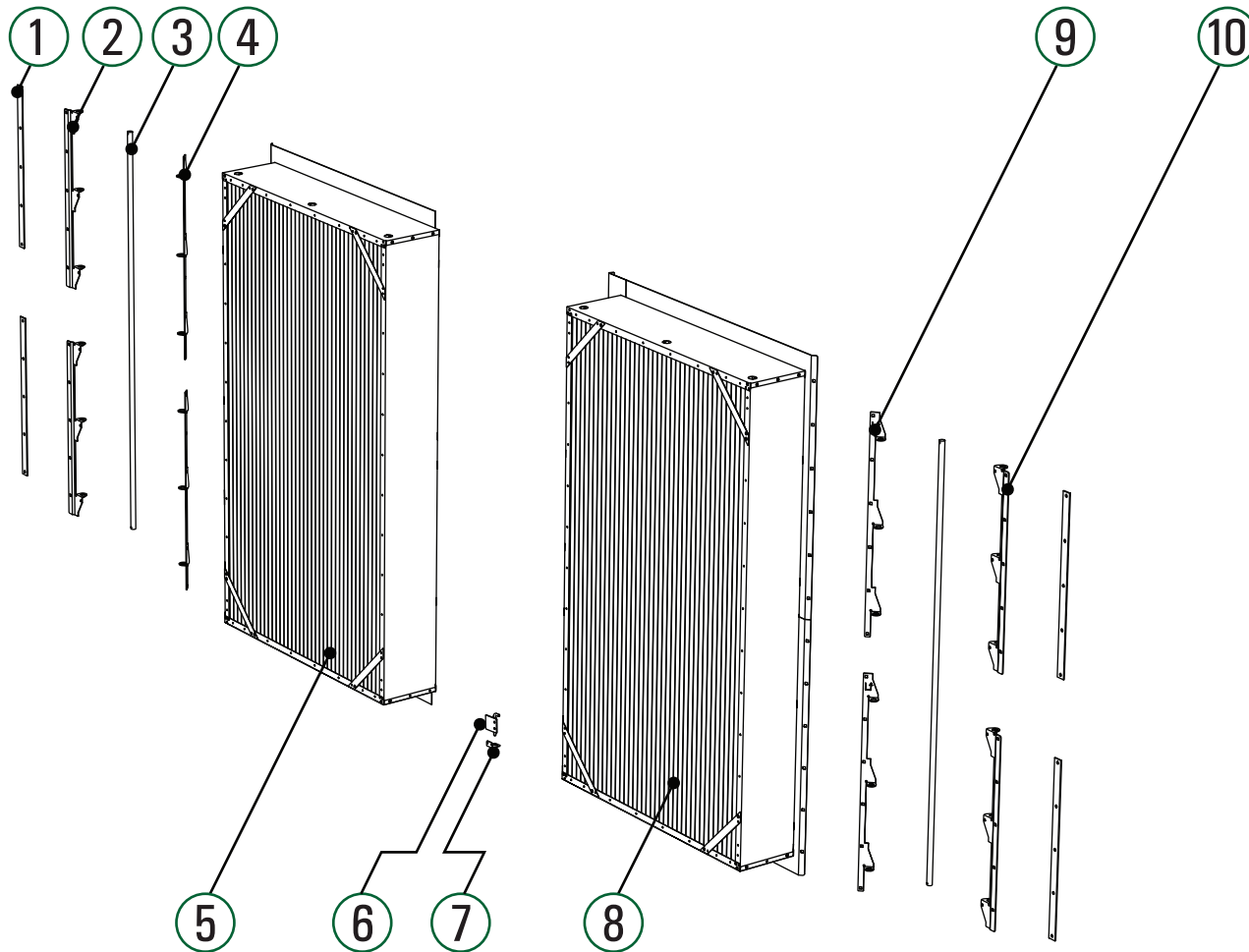


#	(Qty) Description
1	(1) Bottom Bracket "B"
2	(1) Bottom Bracket "A"
3	(1) Top Bracket
4	(2) Side Brackets

#	(Qty) Description
5	(1) Transition Housing
6	(2) Bracket "A" Backer Brackets with Shutter Restraints
7	(2) Backer Brackets for Side Brackets

#	(Qty) Description
8	(1) Backer Bracket for Top Bracket
9	(6) Shutter Clips

LIGHT TRAP DOORS



#	(Qty) Description
1	(4) Hinge Backer Plates
2	(2) Right Door Hinges - Wall Side
3	(2) Door Hinge Rods
4	(2) Right Door Hinges - Door Side
5	(1) Right Light Trap Door
6	(1) Spring Latch
7	(1) Latch Locking Plate
8	(1) Left Light Trap Door with Lip
9	(2) Left Door Hinges - Door Side
10	(2) Left Door Hinges - Wall Side