Installation Instructions

819085: Flush Mount Light Trap 42" x 42" For 24" Fan, RO = 44.5"W x 44.5"H
819075: Flush Mount Light Trap 60" x 72" For 36" Fan, RO = 64.25"W x 75.0"H
819045: Flush Mount Light Trap 84" x 72" For 54" Fan, RO = 88.25"W x 75.25"H
819225: Flush Mount Eclipse 42" x 42" For 24" Fan, RO = 44.5"W x 44.5"H
819215: Flush Mount Eclipse 60" x 72" For 36" Fan, RO = 64.25"W x 75.0"H
819245: Flush Mount Eclipse 72" x 72" For 54" Fan, RO = 73.5"W x 74.75"H
819255: Flush Mount Eclipse 84" x 72" For 54" Fan, RO = 88.25"W x 75.25"H

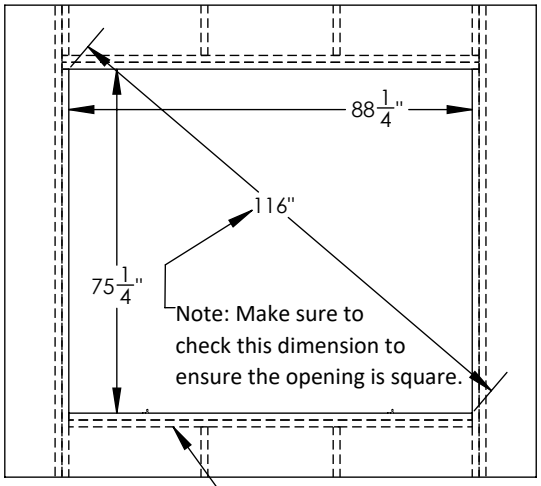
Tools

- *Rivet gun, 1/8" mandrel, 3/16 rivet*
- *Drill bit: 7/32" drill bit*
- *Power Drill / Impact Driver*
- *Socket Set, Wrenches, or Nut Drivers: 1/4", 5/16", 1/2"*

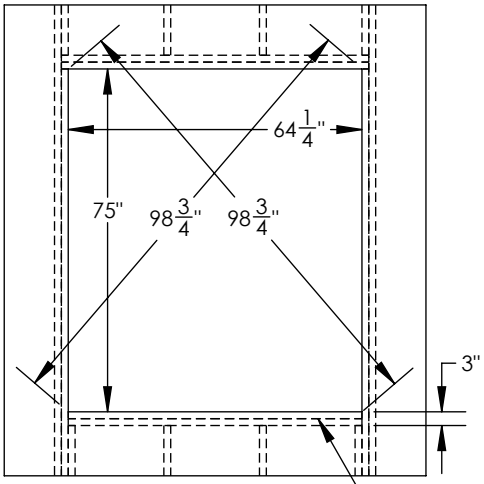
Rough Opening Sizes:

Note: Header & studs are shown for reference. The wall construction must be sized by a qualified engineer to carry building and equipment load. Contact Val-co for Light Trap and Fan weights.

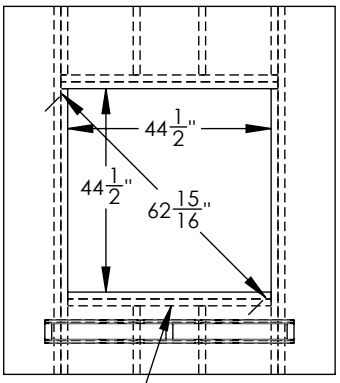
819045/819255: For 54" Fan, 84" x 72" Light Trap/Eclipse



819075/819215: For 36" Fan, 60" x 72" Light Trap/Eclipse

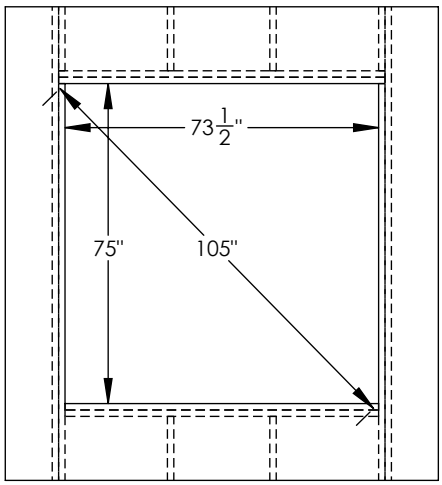


819085/819225: For 24" Fan, 42" x 42" Light Trap/Eclipse

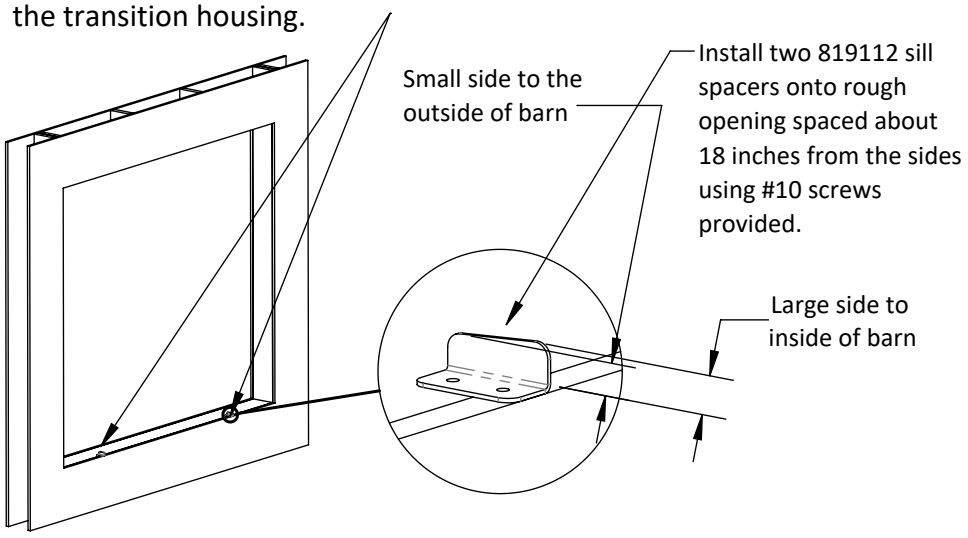


3" of framing is needed all the way around rough opening in order to install Flush Mount transitions

819245: For 54" Fan, 72" x 72" Eclipse



Step 1: Install sill spacers. These spacers will set the correct gap for the transition housing.

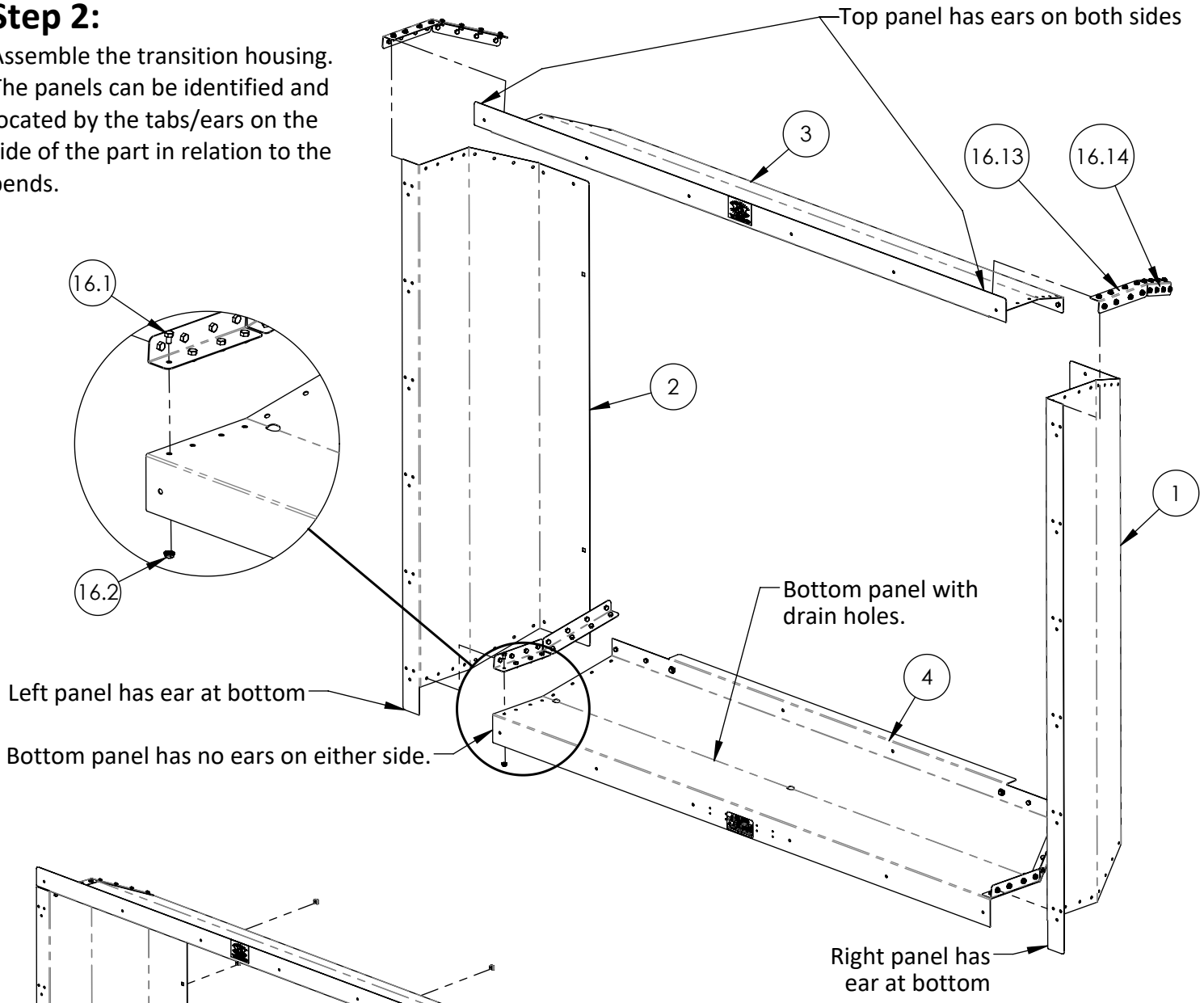


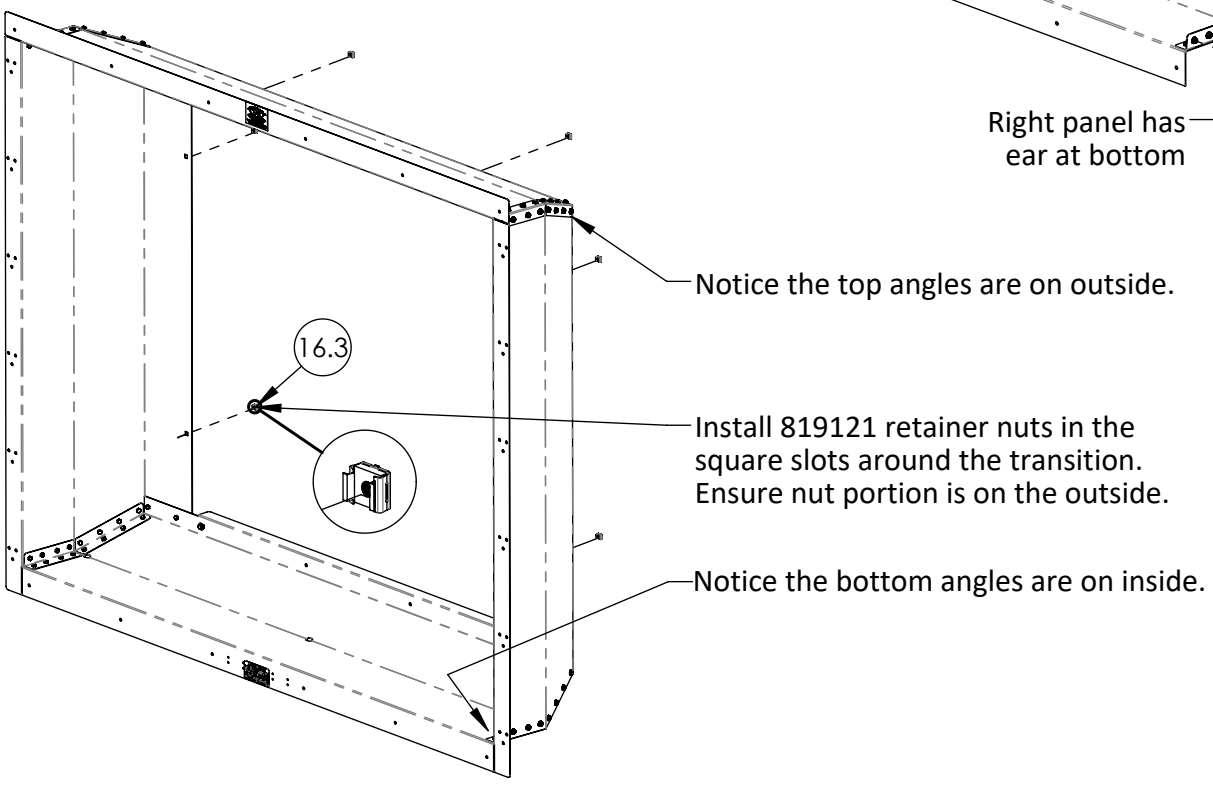
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Step 2:

Assemble the transition housing. The panels can be identified and located by the tabs/ears on the side of the part in relation to the bends.





Step 3:

Next install transition into the rough opening.

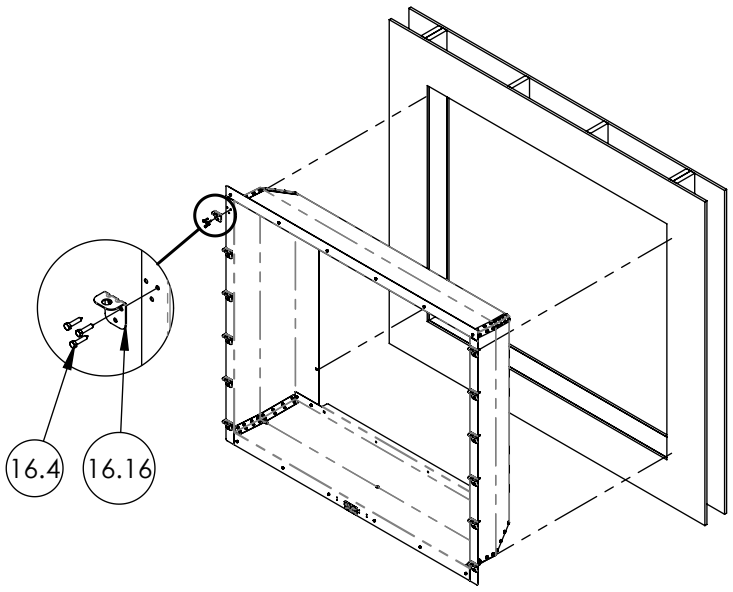
Once the transition is in the rough opening, install (2) lag screws at the top of the transition to hold it in place.

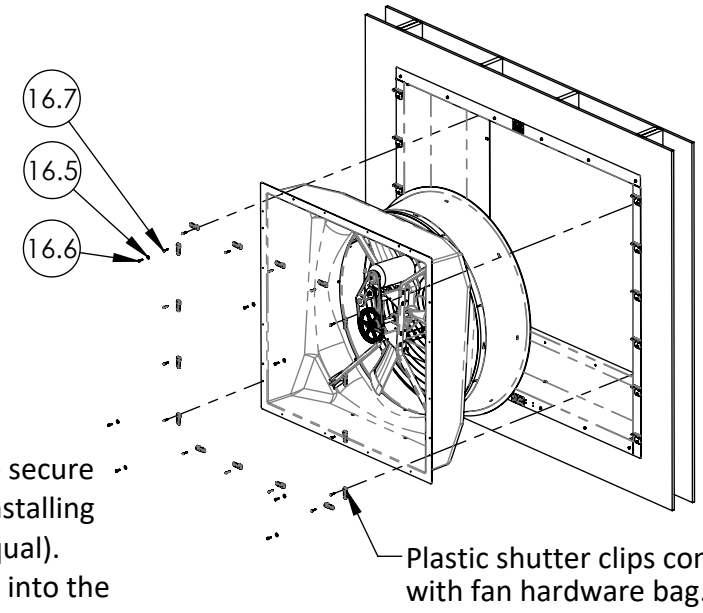
IMPORTANT: Before installing all the lag screws, measure corner to corner as shown below to check for square. Adjust the transition at bottom until dimensions are equal. This ensures the hinged light trap doors will function without interference.

Once transition is square, install the remaining top and bottom 5/16" lag screws through all 11/32" holes in the flange around the rough opening.

Next, install hinge brackets (819061) by drilling 7/32" pilot holes into rough opening and securing with (3) 5/16" lag screws per bracket.

WARNING: use caution when lifting and handling the transition and fan. The 54" assembly weighs 500 lb (bare weight). Use safe lifting practices and only lift at corners of transition. Bodily harm or damage to the equipment can occur if safe lifting practices are not used.



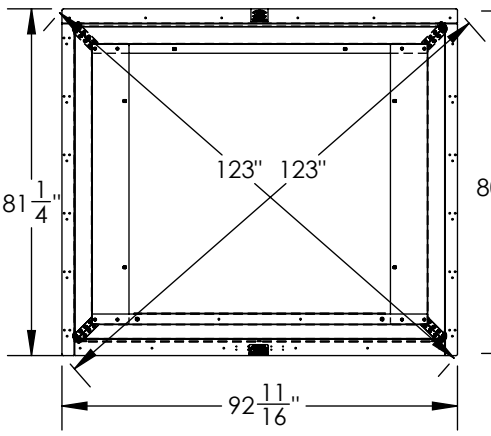


Step 4:

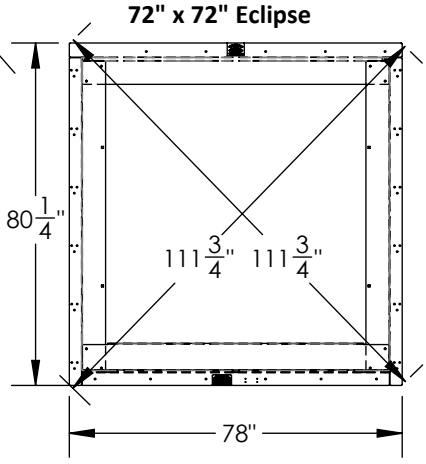
Assemble the fan into the transition housing.

Use self-drilling #10 x 1.5" long TEK screw thru shutter clip to secure the fan. Make sure to check the transition is square before installing all the fan housing screws (diagonal dimensions should be equal). Then drill holes in fan housing and install 5/16 x 1" long bolts into the retainer nuts.

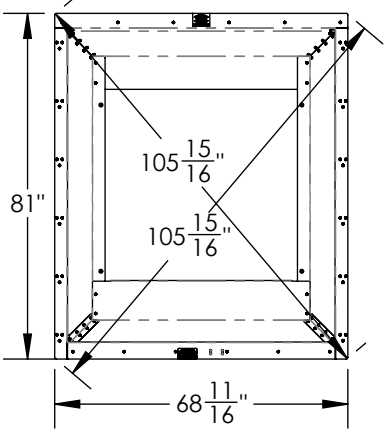
819045/819255: For 54" Fan, 84" x 72" Light Trap/Eclipse



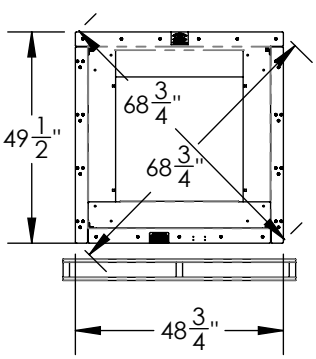
819245: For 54" Fan, 72" x 72" Eclipse



819075/819215: For 36" Fan, 60" x 72" Light Trap/Eclipse



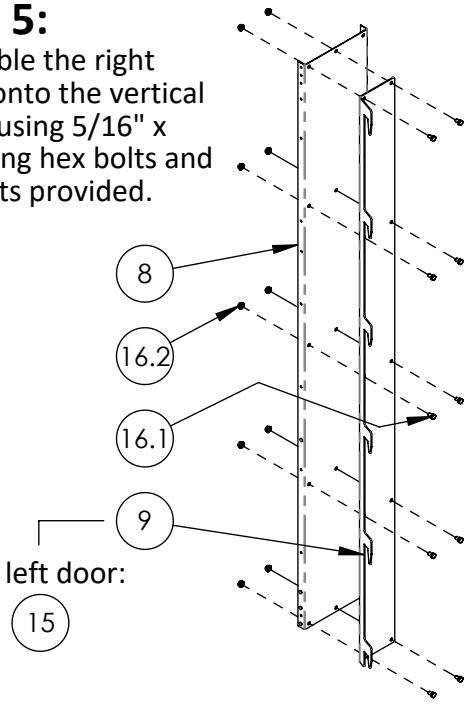
819085/819225: For 24" Fan, 42" x 42" Light Trap/Eclipse



Assemble the light trap doors. The following steps show the RIGHT door assembly. Follow the same steps for the left door assembly, use all the same parts but flip the parts to mirror the assembly. The only different part is the hinge side panel, as shown in step 5.

Step 5:

Assemble the right hinge onto the vertical frame using 5/16" x 1/2" long hex bolts and hex nuts provided.



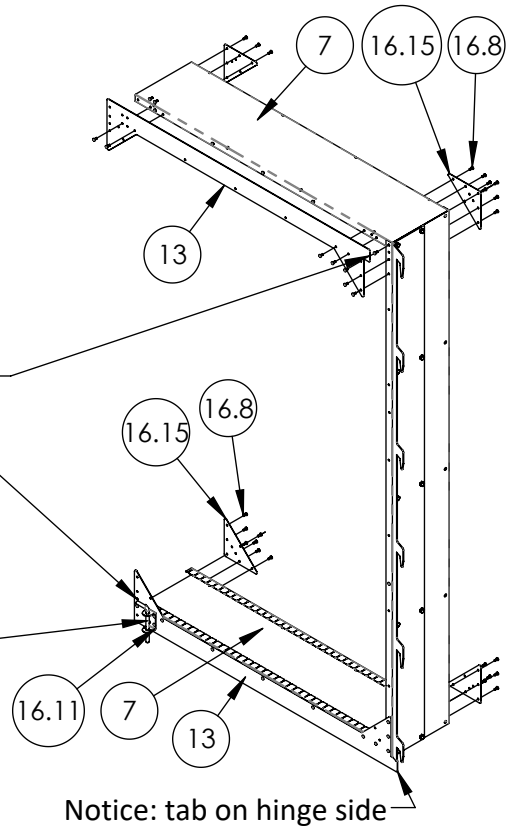
Step 6:

Then start to assemble the box for the light trap making sure to leave off the one vertical frame to make installing the PVC panels easier.

Notice: tab on hinge side

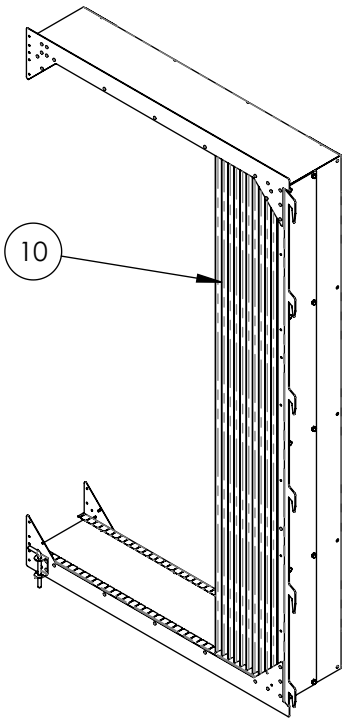
Leave corner rivet out until panels are installed, typ 4 corners.

Install latch with (4) rivets.



Step 7:

Insert PVC Panels into each slot inside the box. Start at the end and work out.



Step 8:

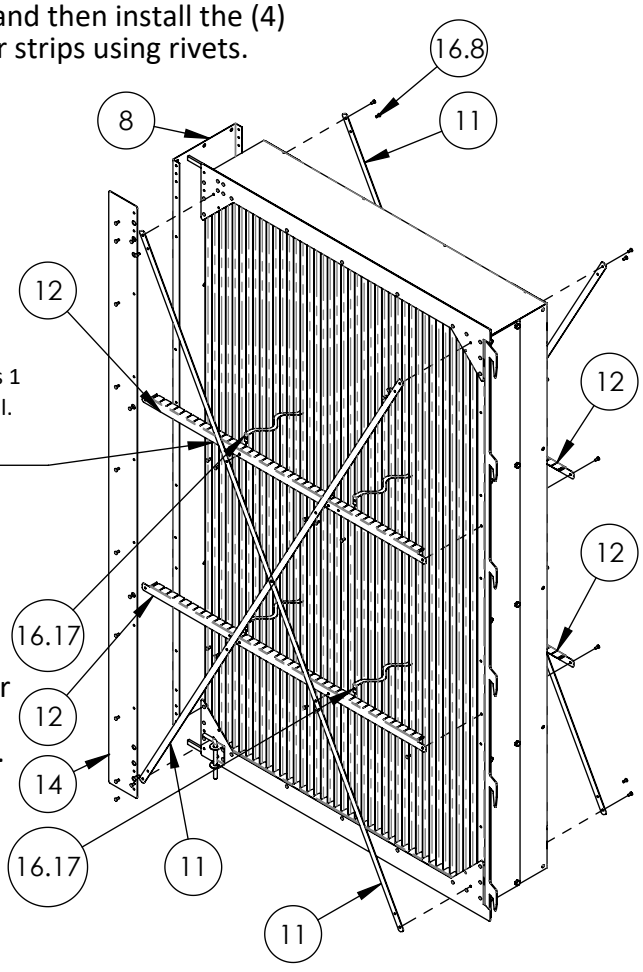
Install #8 side panel and then install the (4) #12 horizontal spacer strips using rivets.

Then install #12 x-braces and #16.17 spacer connectors using rivets.

Use rivets to install #14 middle cover (on right door only).

Notice: 36" 819075 only has 1 NAF9C spacer per horizontal. 24" 819085 only has 1 horizontal brace per side

Use the provided foam weather-stripping & install around the perimeter of the doors to restrict light passage. (For Light Trap Only)



Completed Installation

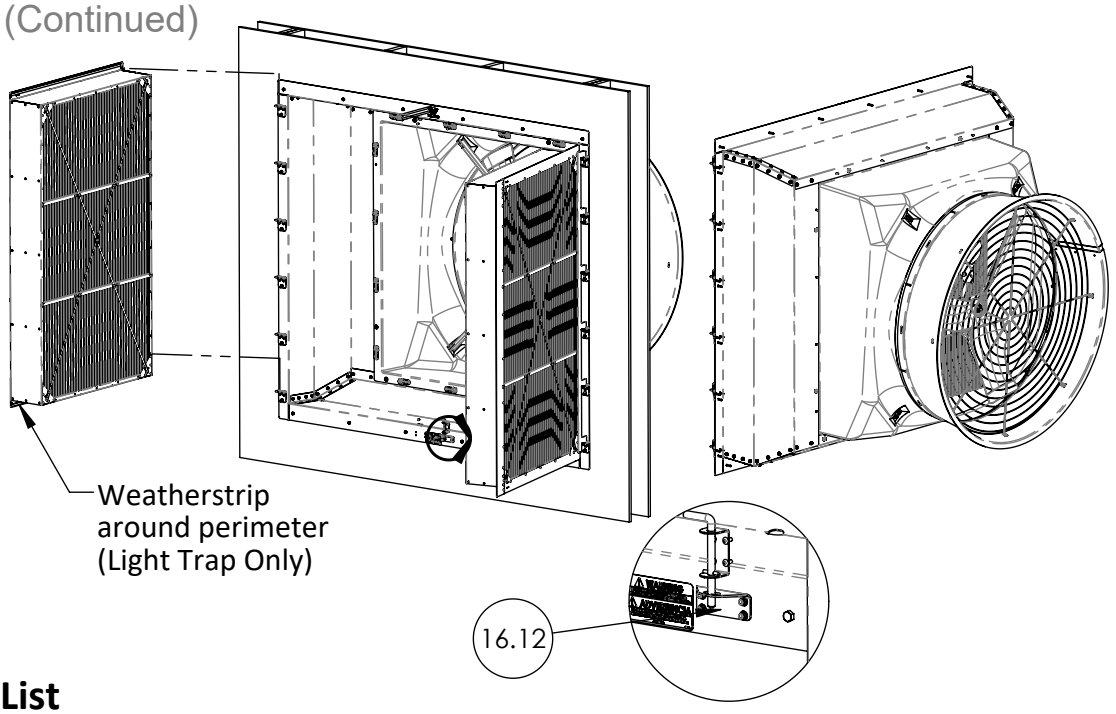
Step 9:

Install bottom latch bracket using (4) #10 screws

Lift the light trap doors and carefully lower the doors into the hinge brackets.

Install the foam weather strip on inside flanges around the perimeter of each door. (Light Trap Only) Do not install on middle cover.

Install the fan shutter.



Light Trap Parts List

Item #	819085: For 24" Fan		819075: For 36" Fan		819045: For 54" Fan		Description
	Part #	Qty	Part #	Qty	Part #	QTY	
1	819193	1	819174	1	819051	1	FAN TRANSITION RIGHT SIDE
2	819194	1	819171	1	819052	1	FAN TRANSITION LEFT SIDE
3	819196	1	819172	1	819053	1	FAN TRANSITION TOP
4	819192	1	819173	1	819054	1	FAN TRANSITION BOTTOM
5	420719	1	420719	1	420719	1	SPROCKET COVER WARNING LABEL
6	470614	1	470614	1	470614	1	4" X 3" VAL-CO DECAL
7	819209	4	819107	4	819057	4	FAN FLSH LIGHT TRAP TP/BTM
8	819208	4	819058	4	819058	4	FAN FLUSH LIGHT TRAP SIDE
9	819197	1	819059	1	819059	1	FAN FLUSH LIGHT TRAP RIGHT
10	NA100-41	38	NA100-72F	58	NA100-72F	82	NIGHT AIR LIGHT TRAP PANEL
11	819211	4	819136	8	819065	8	FAN FLUSH LIGHT TRAP STRAP
12	819221	4	819116	8	819066	8	FAN FLUSH LIGHT TRAP HORIZ
13	819212	4	819142	4	819067	4	FAN FLUSH LIGHT TRAP TOP/BOTTM
14	819213	1	819068	1	819068	1	FAN FLUSH LIGHT TRAP MIDDL
15	819198	1	819071	1	819071	1	FAN FLUSH LIGHT TRAP LEFT
16	819185	1	819125	1	819060	1	HARDWARE CARTON, FLUSH MOUNT
16.1	010640	65	010640	97	010640	96	BOLT, HEX, 5/16-18 X 1/2"
16.2	501441	65	501441	97	501441	96	NUT, HEX, FLG, SERRATED, 5/16-18
16.3	819121	4	819121	4	819121	8	NUT, RETAINER, 5/16-18
16.4	690262	38	690262	51	690262	50	SCREW, HEX, 5/16-9 X 1-1/2"
16.5	010458	4	010458	4	010458	8	WASHER, FLAT, 5/16"
16.6	010645	4	010645	4	010645	8	BOLT, HEX, 5/16-18 X 1"
16.7	819074	15	819074	17	819074	32	SCREW, HEX WASHER, #10-12 X 1.5"
16.8	954099	149	954099	201	954099	212	RIVET, POP, 3/16" X .126" X .250" ZP
16.9	690443	50	690443	50	690443	50	FOAM TAPE, 1/2" WIDE X .25"THK
16.10	819112	2	819112	2	819112	2	TRANSITION SILL SPACER
16.11	819189	1	819189	1	819189	1	LATCH PIN, SPRING LOADED 3/8" DIA.
16.12	819202	1	819202	1	819202	1	BRACKET LATCH, LIGHT TRAP DOOR
16.13	819154	4	819106	4	819106	4	FAN TRANSITION ANGLE
16.14	-	-	819105	4	819055	4	FAN TRANSITION DIAG ANGLE
16.15	819114	8	819127	8	819064	8	FAN FLUSH LIGHT TRAP TRIANGLE BRACKET
16.16	819061	8	819061	12	819061	12	HINGE BRACKET
16.17	NAF9C	2	NAF9C	4	NAF9C	8	LIGHT TRAP SPACER CONNECTOR

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Email: intl.sales@val-co.com

Eclipse Parts List

Item #	819225: For 24" Fan		819215: For 36" Fan		819245: For 54" Fan		819255: For 54" Fan		Description
	Part #	Qty	Part #	Qty	Part #	Qty	Part #	Qty	
1	819193	1	819174	1	819149	1	819051	1	FAN TRANSITION RIGHT SIDE
2	819194	1	819171	1	819151	1	819052	1	FAN TRANSITION LEFT SIDE
3	819196	1	819172	1	819152	1	819053	1	FAN TRANSITION TOP
4	819192	1	819173	1	819153	1	819054	1	FAN TRANSITION BOTTOM
5	420719	1	420719	1	420719	1	420719	1	SPROCKET COVER WARNING LABEL
6	470614	1	470614	1	470614	1	470614	1	4" X 3" VAL-CO DECAL
7	819217	4	819177	4	819159	4	819203	4	FAN FLSH LIGHT TRAP TP/BTM
8	819216	4	819158	4	819158	4	819158	4	FAN FLUSH LIGHT TRAP SIDE
9	819226	1	819167	1	819167	1	819167	1	FAN FLUSH LIGHT TRAP RIGHT
10	819200-41	26	819200-72	40	819200-72	46	819200-72	56	ECLIPSE, PANEL
11	819222	4	819183	8	819201	8	819207	8	FAN FLUSH LIGHT TRAP STRAP
12	819228	4	819184	8	819199	8	819206	8	FAN FLUSH LIGHT TRAP HORIZ
13	819218	4	819176	4	819161	4	819204	4	FAN FLUSH LIGHT TRAP TOP/BOTTM
14	819219	1	819179	1	819163	1	819179	1	FAN FLUSH LIGHT TRAP MIDDL
15	819227	1	819168	1	819168	1	819168	1	FAN FLUSH LIGHT TRAP LEFT
16	819205	1	819175	1	819150	1	819195	1	HARDWARE CARTON, FLUSH MOUNT
16.1	010640	65	010640	97	010640	65	010640	97	BOLT, HEX, 5/16-18 X 1/2"
16.2	501441	65	501441	97	501441	65	501441	97	NUT, HEX, FLG, SERRATED, 5/16-18
16.3	819121	4	819121	4	819121	4	819121	10	NUT, RETAINER, 5/16-18
16.4	690262	38	690262	50	690262	51	690262	51	SCREW, HEX, 5/16-9 X 1-1/2"
16.5	010458	4	010458	4	010458	4	010458	10	WASHER, FLAT, 5/16"
16.6	010645	4	010645	4	010645	4	010645	10	BOLT, HEX, 5/16-18 X 1"
16.7	819074	15	819074	17	819074	23	819074	28	SCREW, HEX WASHER, #10-12 X 1.5"
16.8	954099	149	954099	187	954099	198	954099	202	RIVET, POP, 3/16" X .126" X .250" ZP
16.9	-	-	-	-	-	-	-	-	FOAM TAPE, 1/2" WIDE X .25" THK
16.10	819112	2	819112	2	819112	2	819112	2	TRANSITION SILL SPACER
16.11	819189	1	819189	1	819189	1	819189	1	LATCH PIN, SPRING LOADED 3/8" DIA.
16.12	819191	1	819191	1	819191	1	819191	1	BRACKET LATCH, LIGHT TRAP DOOR
16.13	819154	4	819106	4	819154	4	819106	4	FAN TRANSITION ANGLE
16.14	-	-	819105	4	-	-	819055	4	FAN TRANSITION DIAG ANGLE
16.15	819114	8	819114	8	819114	8	819114	8	FAN FLUSH LIGHT TRAP TRIANGLE BRACKET
16.16	819061	8	819061	12	819061	12	819061	12	HINGE BRACKET
16.17	819233	2	819233	4	819233	4	819233	4	ECLIPSE, SPACER CONNECTOR