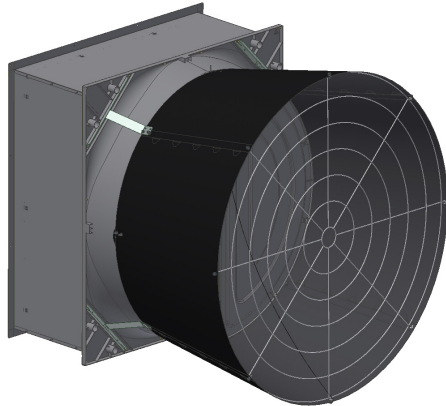




57" Endura[®] Belt Drive Flush Mount Fan Installation & Operator's Instruction Manual

Thank You The employees of CTB Inc. would like to thank you for your recent Chore-Time purchase. If a problem should arise, your Chore-Time distributor can supply the necessary information to help you.



Fan Part Numbers and Specifications

Fan Part No.	Bess Lab Test No.	Voltage	Phase	Hz	Nominal RPM	Amps	Starting Amps	Static Pressure at .10" w.c. [25 Pa]		Static Pressure at .15" w.c. [37.5 Pa]	
								CFM [m ³ /hr]	CFM/W [m ³ /hr/w]	CFM [m ³ /hr]	CFM/W [m ³ /hr/w]
54659-21 54659-21S	13592	230	1	60	537	7.1	36.0	29600 [50200]	19.2 [32.7]	27300 [46400]	16.8 [28.5]
54659-22 54659-22S	13591	230	1	60	538	5.6	27.5	26400 [44900]	21.7 [36.8]	24300 [41200]	18.8 [32.0]
54659-41 54659-41S	13566	200-230/400-460	3	60	532	4.9	40.0	29200 [49600]	19.6 [33.4]	26800 [45600]	17.1 [29.0]
54659-42 54659-42S	13569	200-230/400-460	3	60	536	4.2	40.0	26300 [44700]	22.2 [37.6]	24200 [41000]	19.2 [32.7]
54659-51 54659-51S	13567	200-230/380-415	3	50	526	5.3	45.0	28800 [49000]	19.6 [33.3]	26500 [45000]	17.1 [29.1]
54659-52 54659-52S	13568	200-230/380-415	3	50	532	4.7	45.0	26000 [44200]	22 [37.3]	23700 [40300]	18.9 [32.1]

Operating static pressure should be less than 0.15 inches water column [37.5 Pa].



The fan inlet and exhaust must be kept clear of obstructions. Failure to keep the fan airflow path clear of obstructions could cause loss of fan performance and fan damage.

Safety

Warning



This product has inherent dangers, which can cause damage or loss to persons or equipment if the warnings in this manual are not adhered to. Please read and follow all instructions.

Personnel Requirements



This product must only be used by persons adequately trained in the hazards, dangers, and risks of the equipment.

All users of this product must be trained in the following areas:

- Health and safety hazards relating to use of this machine throughout its entire life cycle
- Devices provided for safety of the operator
- Instructions for safe shutdown in case of emergency

The employer must assume the following responsibilities:

- To provide necessary personal protective equipment required
- To ensure normal maintenance operations are carried out
- To provide necessary repair parts in a timely manner

General Requirements



Safety devices must remain in good working condition and may not be bypassed or rendered ineffective. The fan must not be operated with guards removed. All maintenance work must be done with electrical power isolated from the machine via proper device in accordance with local and national laws. The user must ensure that the environmental and electrical supply conditions in which the fan operates are within the limits specified in this manual or on product labels. Modification to this machine in any way are prohibited unless given written consent by CTB, Inc. Unauthorized modifications will render the warranty void and can lead to hazardous situations.

Safety Devices



This machine has been designed to operate with fixed guards in order to protect users from physical hazards on both inlet and outlet sides of this fan. They were designed in accordance with national standards. They must not be altered. They must remain in their fixings at all times of operation. If damage or destruction should occur, exact replacements should be fitted immediately. **Reference the technical documentation section at the back of this manual** for more information.

At the time of installation, a proper device should be fitted in the direct vicinity of the fan to act as an emergency stop device. This device must be supplied by the installer. The device must be of a type to satisfy the emergency stop device requirements below.

EN-IEC 60204-1 Section 10.7.2:

- a push-button operated switch with a palm or mushroom head type

Section 10.7.3:

- actuators of emergency stop devices shall be colored RED.

Residual Risks

Despite the level of caution taken and the incorporation of safeguards, some risks will remain. This product has the following hazards:

Hazard	Safeguard	Operator Requirement
Cutting or trapping	Fixed guards	Maintain all fixed guards in proper location and good condition
Ejection of parts		
Stability	Design Installation Instructions	Maintain product in good operating condition according to manual
Electrical shock	Warning Labels Installation Instructions	Maintain hazard decals in good readable condition Install and operate in accordance with instruction in manual
Noise	Design	Wear hearing protection if in vicinity of product for extended time periods
Transport and Handling	Instructions	Reference manual for precautions to take during transport or handling of this product

Follow Safety Instructions

Carefully read all safety messages in this manual and on your equipment safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



Warranty

CTB, Inc. ("CTB") warrants new CHORE-TIME ENDURA[®] Fans ("Product") manufactured by CTB to be free from defects in material or workmanship under normal usage and conditions, for One (1) year from the date of installation by the original purchaser ("Warranty"). CTB provides for an extension of the aforementioned Warranty period ("Extended Warranty Period") with respect to certain Product parts ("Component Part") as set forth in the table below. If such a defect is determined by CTB to exist within the applicable period, CTB will, at its option, (a) repair the Product or Component Part free of charge, F.O.B. the factory of manufacture or (b) replace the Product or Component Part free of charge, F.O.B. the factory of manufacture. This Warranty is not transferable, and applies only to the original purchaser of the Product.

Component Part	Extended Warranty Period
Endura [®] Fan Housing and Cones (Including Composite Shrouds, Composite Doors and HDPE Cone Panels	Five (5) Years

CONDITIONS AND LIMITATIONS

THIS WARRANTY CONSTITUTES CTB'S ENTIRE AND SOLE WARRANTY AND CTB EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES, INCLUDING, WIHTOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES. CTB shall not be liable for any direct, indirect, incidental, consequential or special damages which any purchaser may suffer or claim to suffer as a result of any defect in the Product. Consequential or Special Damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs, and operational inefficiencies. Some jurisdictions prohibit limitations on implied warranties and/or the exclusion or limitation of such damages, so these limitations and exclusions may not apply to you. This warranty gives the original purchaser specific legal rights. The original purchaser may also have other rights based upon your specific jurisdiction.

Compliance with federal, state and local rules which apply to the location, installation and use of the Product are the responsibility of the original purchaser, and CTB shall not be liable for any damages which may result from non-compliance with such rules.

The following circumstances shall render this Warranty void:

- "Modifications made to the Product not specifically delineated in the Product manual published by CTB.
- "Product not installed and/or operated in accordance with the instructions published by CTB.
- "All components of the Product are not original equipment supplied by CTB.
- "Product was not purchased from and/or installed by a CTB authorized distributor or certified representative.
- "Product experienced malfunction or failure resulting from misuse, abuse, mismanagement, negligence, alteration, accident, or lack of proper maintenance, or from lightning strikes, electrical power surges or interruption of electricity.
- "Product experienced corrosion, material deterioration and/or equipment malfunction caused by or consistent with the application of chemicals, minerals, sediments or other foreign elements.
- "Product was used for any purpose other than for the care of poultry and livestock.

The Warranty and Extended Warranty may only be modified in writing by an officer of CTB. CTB shall have no obligation or responsibility for any representations or warranties made by or on behalf of any distributor, dealer, agent or certified representative.

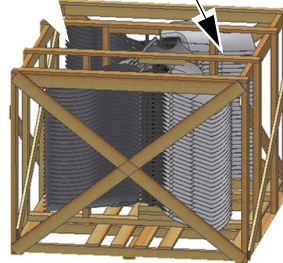
* CTB warrants to the original purchaser that certain Component Parts shall be free from defects in material or workmanship under normal usage and conditions, for the duration of the Product's useful lifetime.

Unassembled Fans Parts Packages



(54671-XX)
Component Package

Fan Blade Part No.
(on Blade Spider)



(53219-XX, 53532-XX, 54529-XX, or 54530-XX)
Fan Blade Package



(53850-XX)
Shroud and Door Package



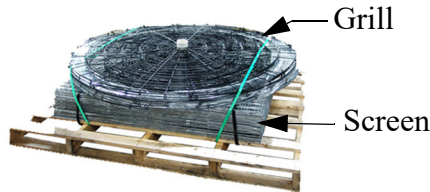
(53753-1, -2, -1S, -2S)
Drive Assembly
1 or 2 Drives per Box



(54661-AAXX, or -AAXXS)
Hardware Package



(See Table Below)
Motor Pallet



(53129) Grill
(54464) Inlet Screen



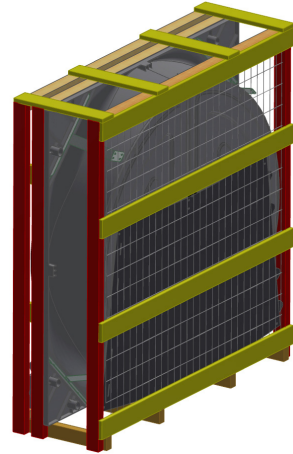
(54470)
Housing Extension Kit

Unassembled 57" Belt Drive Endura® Fan Component Part Numbers

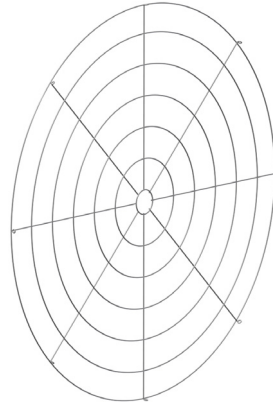
Fan Part No.	Drive Assembly	Motor	Hardware Pkg.	Fan Blade
54659-21	53753-1	56850	54661-21XX	53219
54659-21S	53753-1S	56850	54661-21XXS	54529
54659-22	53753-1	56850	54661-22XX	53532
54659-22S	53753-1S	56850	54661-22XXS	54530
54659-41	53753-1	56102	54661-41XX	53219
54659-41S	53753-1S	56102	54661-41XXS	54529
54659-42	53753-1	56102	54661-42XX	53532
54659-42S	53753-1S	56102	54661-42XXS	54530
54659-51	53753-2	56102	54661-51XX	53219
54659-51S	53753-2S	56102	54661-51XXS	54529
54659-52	53753-2	56102	54661-52XX	53532
54659-52S	53753-2S	56102	54661-52XXS	54530

XX= Number of Fans that can be built with components in Package.

Assembled Fans Parts Packages



(54659-XXXXP)
Fan Assembly



(53129)
57" Fan Grill



(54470)
Flush Mount Kit

Assembled 57" Belt Drive Endura® Fan Component Part Numbers

Part Number		54659-21	54659-21S	54659-22	54659-22S	54659-41	54659-41S	54659-42	54659-42S	54659-51	54659-51S
	Qty										
Fan Assembly	1	54659-21P	54659-21PS	54659-22P	54659-22PS	54659-41P	54659-41PS	54659-42P	54659-42PS	54659-51P	54659-51PS
Fan Grill	1	53219	53219	53219	53219	53219	53219	53219	53219	53219	53219
Flush Mount Kit	1	54470	54470	54470	54470	54470	54470	54470	54470	54470	54470

Assembled 57" Belt Drive Endura® Fan Component Part Numbers

Part Number		54659-52	54659-52S	54659-015	54659-015S	54659-025	54659-025S	54659-016	54659-016S	54659-026	54659-026S
	Qty										
Fan Assembly	1	54659-52P	54659-52PS	54659-015P	54659-015PS	54659-025P	54659-025PS	54659-016P	54659-016PS	54659-026P	54659-026PS
Fan Grill	1	53219	53219	53219	53219	53219	53219	53219	53219	53219	53219
Flush Mount Kit	1	54470	54470	54470	54470	54470	54470	54470	54470	54470	54470

Hardware Needed Per Fan (Unassembled)

57" Belt Drive Endura® Fan Hardware Items per Fan			
Items are bulk packed in 54661-AAXX, or 54661-AAXXS (See page 3).			
Item	Qty.	Description	Part No.
1	1	Bottom Pivot Plate	53036
2	1	Top Pivot Plate	53037
3	4	Door Hinge Pin	53038
4	1	1/4 x 1-1/8" Sq. Key (For Blade)	2419-2
5	40	5/16-18 x 1" SS Bolt	54287
6	55	5/16-18 Hx. Serrated SS Flange Nut	46764
7	1	Fan Description Decal	39002-XXX
8	2	.38 SS Flat Washer	ST99070
9	1	72.5" Fan Cone Cable	53399
10	1	5/16-18 x 3" Eye Bolt	30663
11	2	Ø1/2" x 11" Door Spring	49629
12	12	1/4-10 x 1-1/2" Lag Screw SS	41561
13	1/3	Anti-Seize Lubricant	47749
14	--	57" Endura® Fan Instruction Manual	MV2423
15	6	Orifice Frame Bracket	53611
16	2	Cable Clamp	732

Tools Needed and Supplies

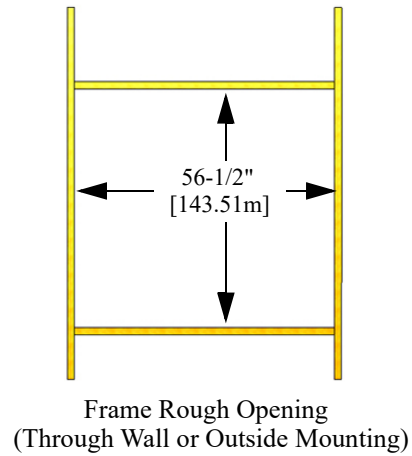
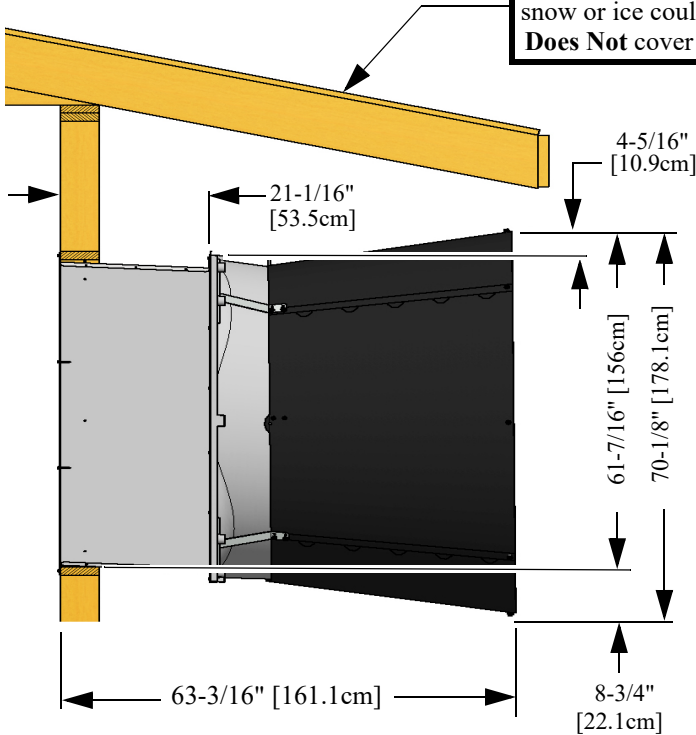
3/8", 1/2", and 7/16" sockets or wrenches, side cutters, 1/4" nut driver, motor power cord, wire nuts / terminals, 5/32" allen wrench (un-assembled)

New Installation Planning

Fans can be installed with the Extension Box through the wall or outside the wall. The Figure below shows dimensioning for both installations.

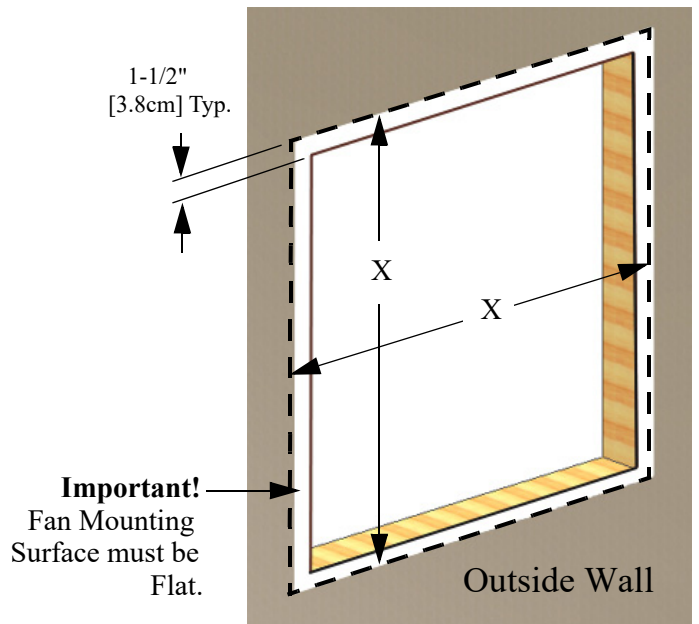
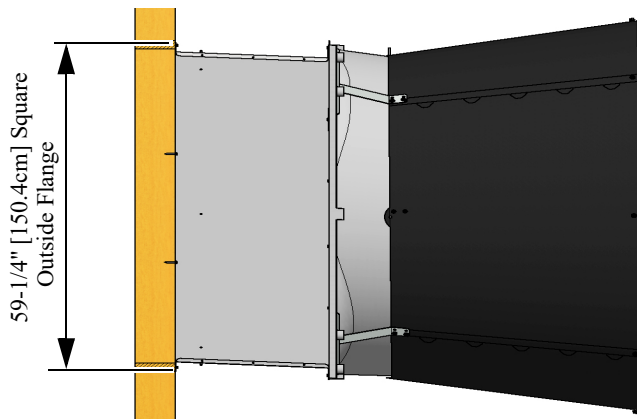
Through Wall Installation

!Important: Provide Shelter over Cones in areas where snow or ice could cause damage. CTB Inc. Warranty **Does Not** cover damage from external sources.



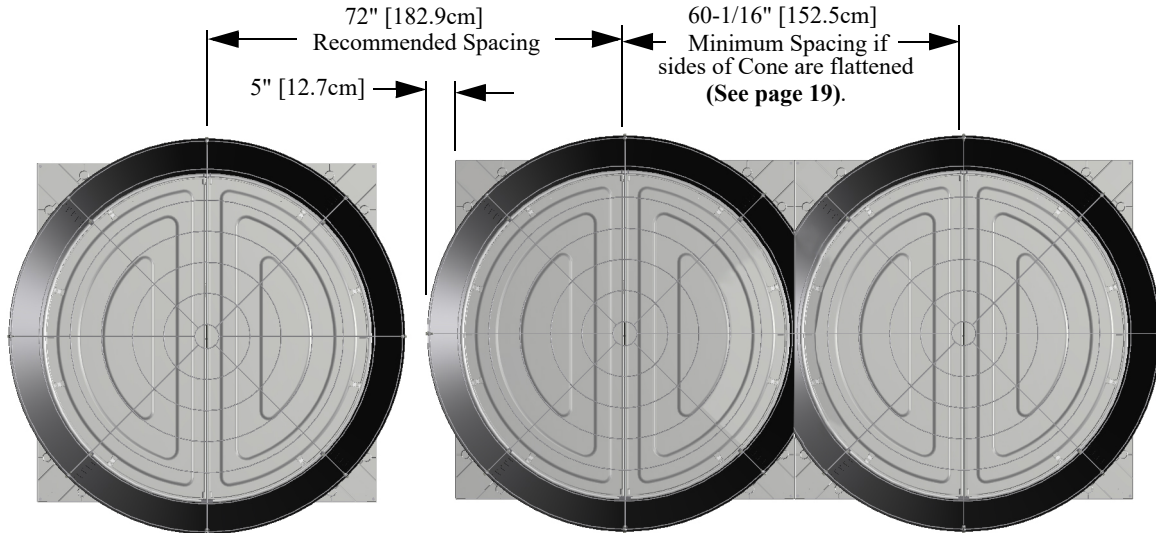
For Outside Wall Mounting
"X" = 59-1/2" [151.1cm] Minimum
Flat Mounting Surface Required

Outside the Wall Installation



Spacing

Planning the layout of the spacing between fans is very important. Spacing too close together will cause interference between the discharge cones.

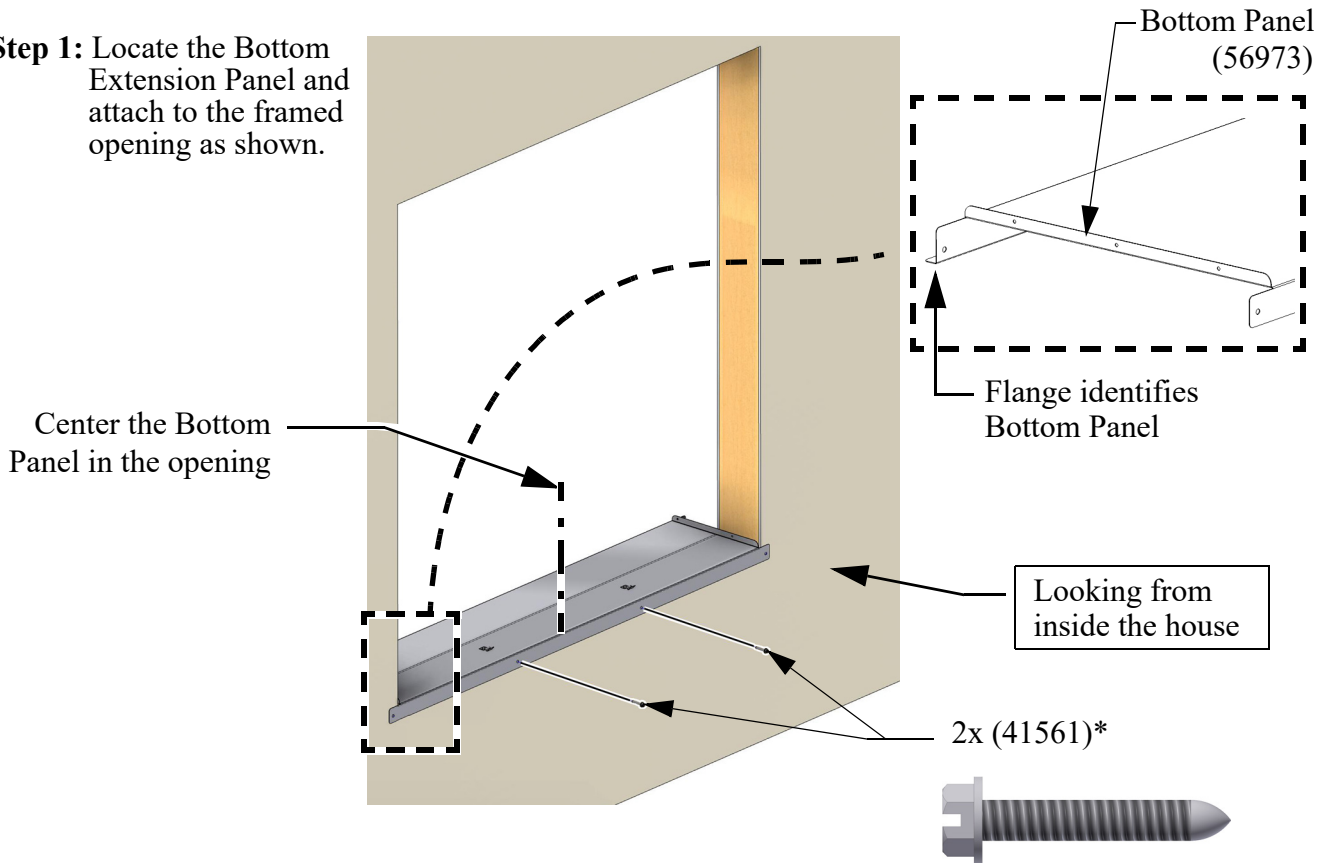


Installation

Assembling the Extension Housing

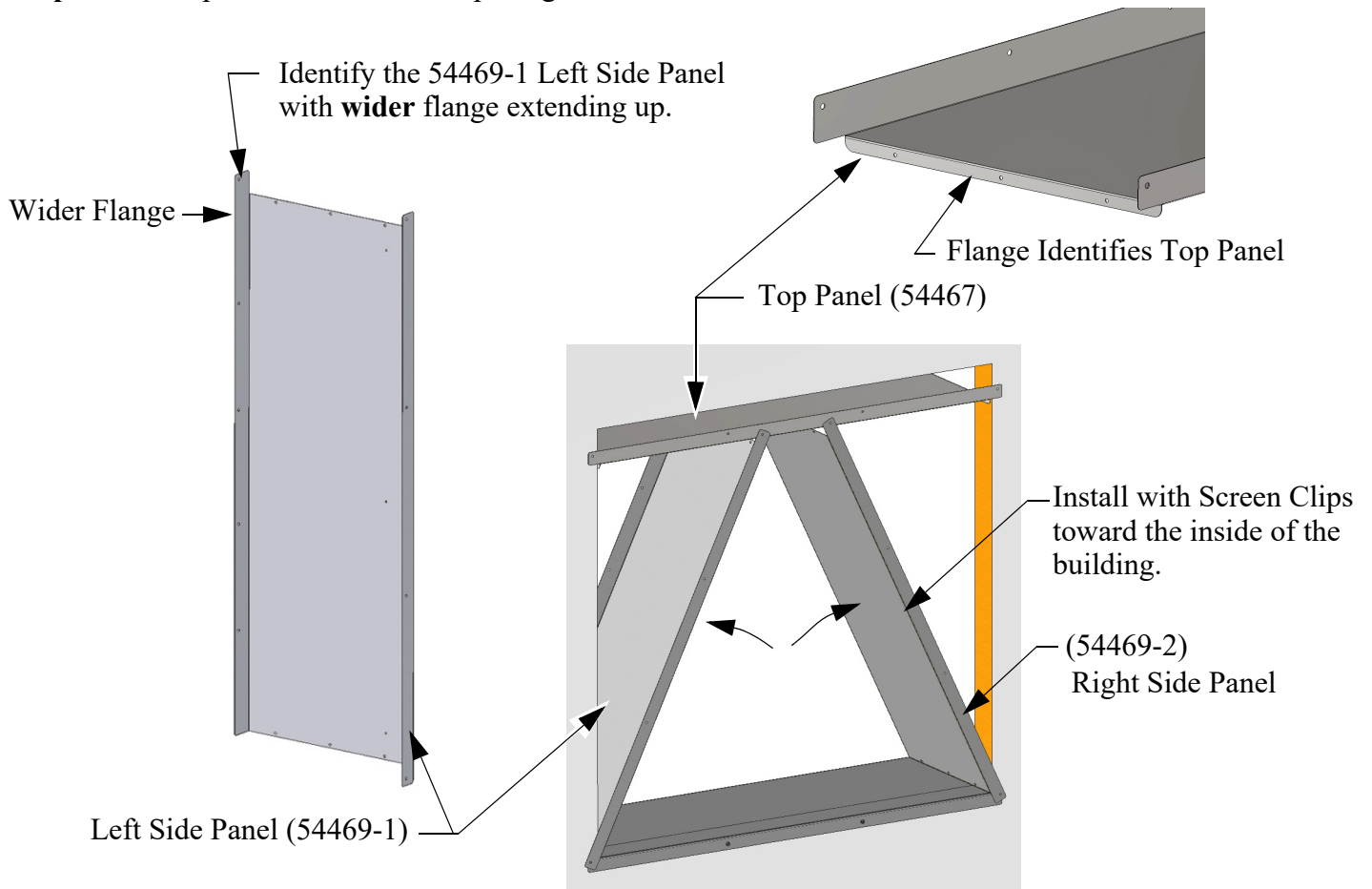
Note: panels in this manual are shown gray for clarity. Actual panels are black.

Step 1: Locate the Bottom Extension Panel and attach to the framed opening as shown.

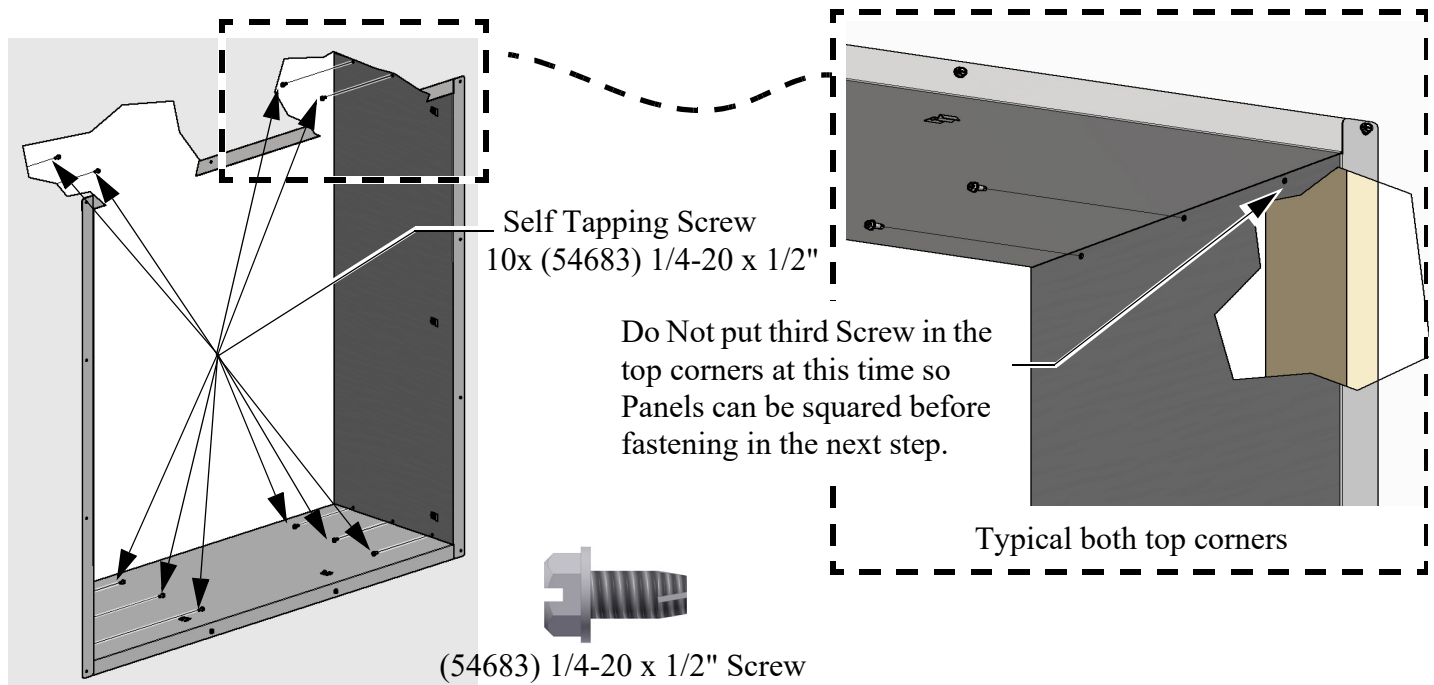


**(41561) 1/4-10 x 1-1/2" Lag Screw provided with 57" Endura® Fan*

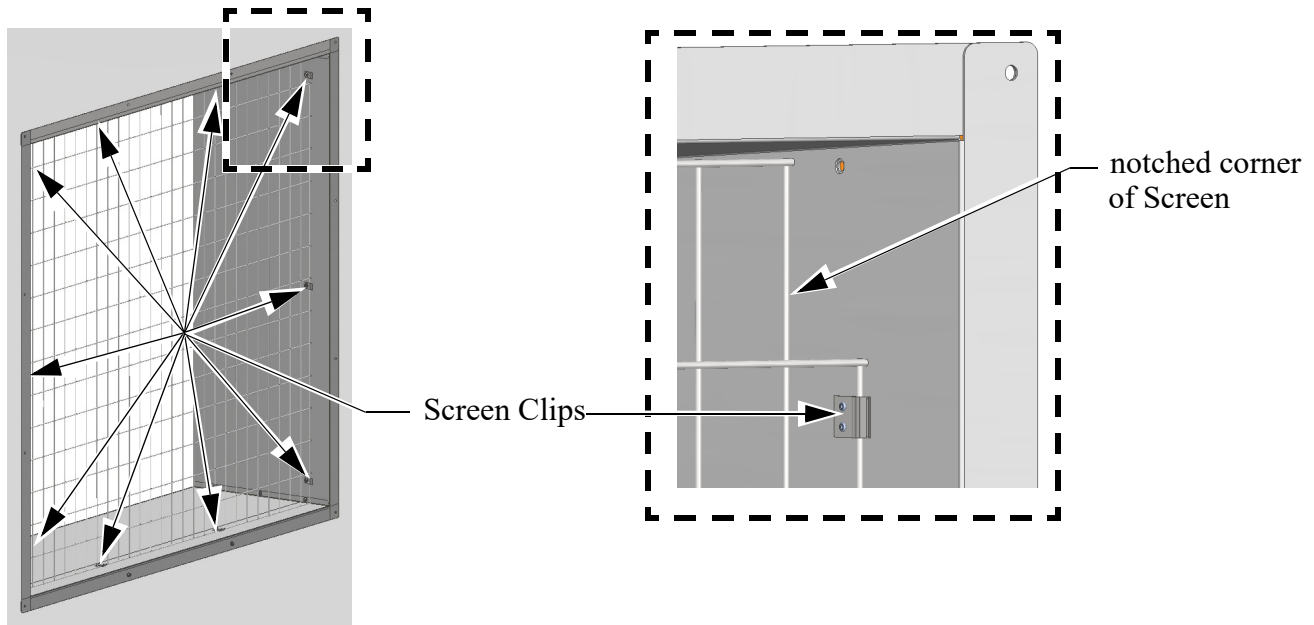
Step 2: Set the panels in the framed opening as shown.



Step 3: Attach the four Panels together with Self Tapping Screws (54683), Use 3 Screws in the bottom corners but only two in the upper corners **as shown**.

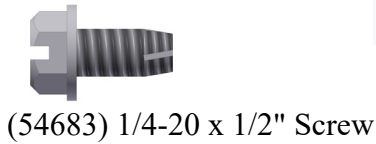
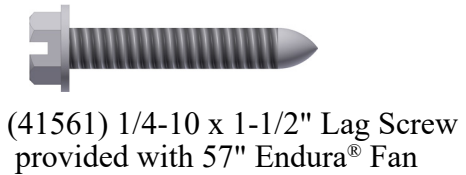
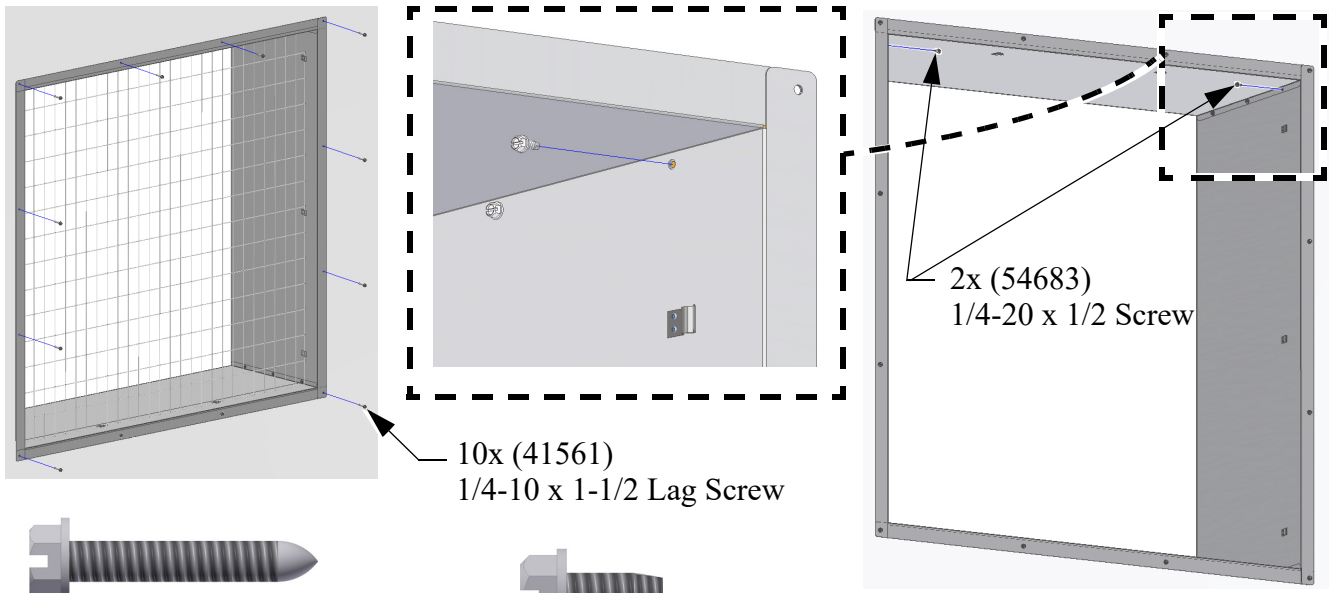


Step 4: Orient the Screen with the notched corner top right and snap the Screen into the Screen Clips as shown.



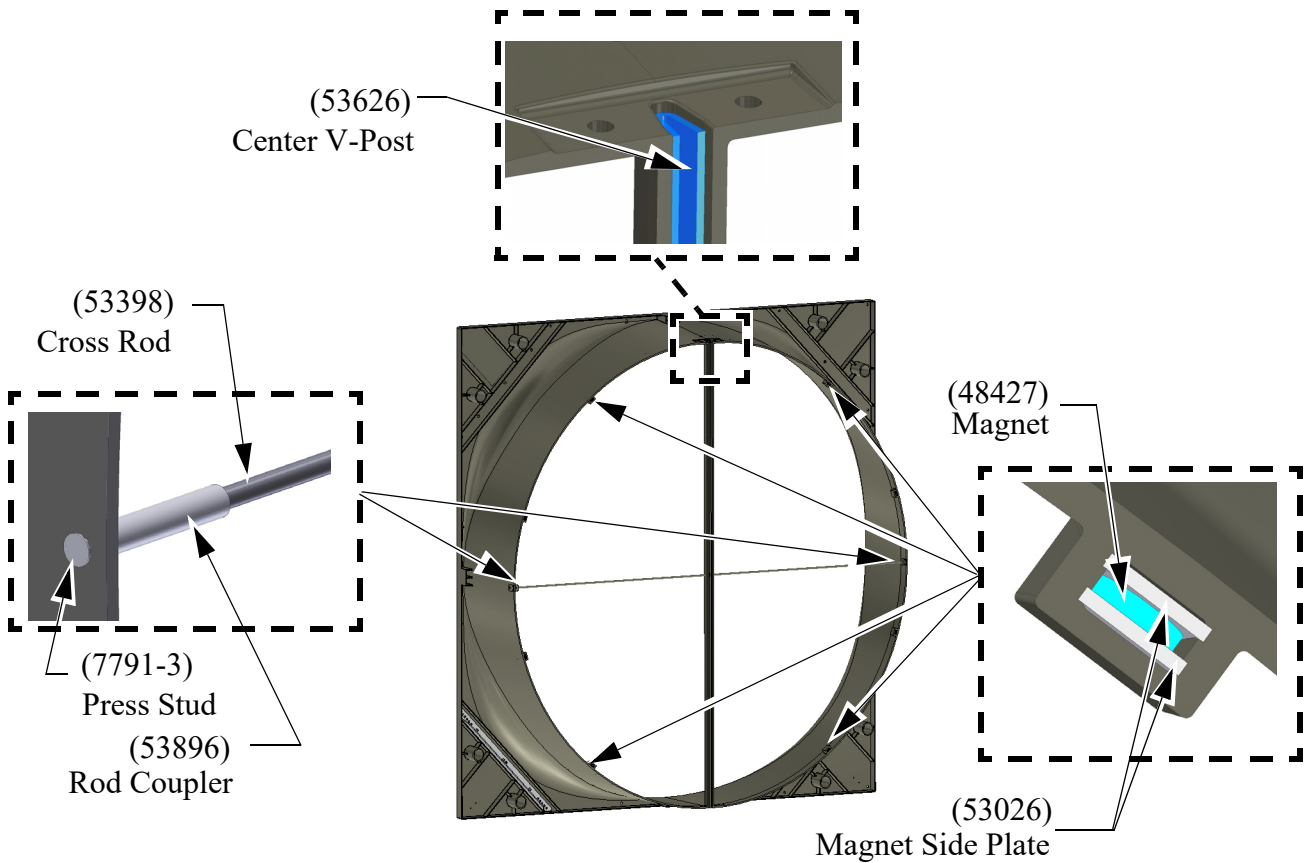
Step 5: With the Screen In place attach the Panels with 1/4-10 x 1-1/2" Lag Screws (41561) as shown.

Step 6: Remove the Screen and finish fastening the Panels with two (54683) 1/4-20 x 1/2" Screws.



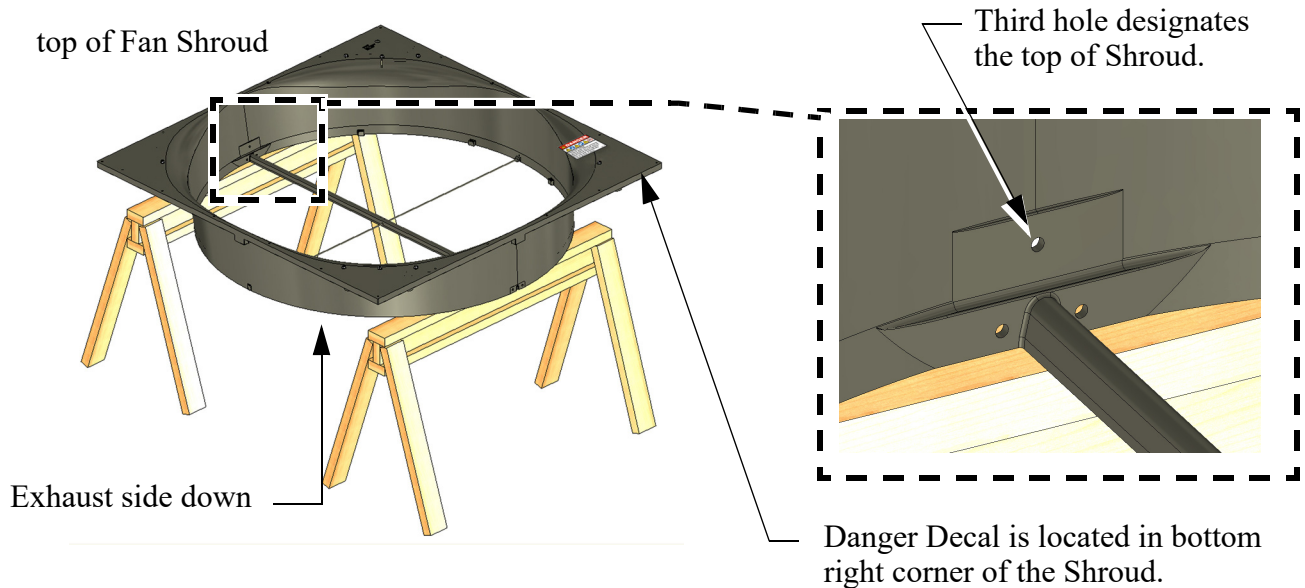
Inspecting the Shroud (For assembled versions skip to pg. 15)

Inspect the Shroud Assembly for hardware as it is received

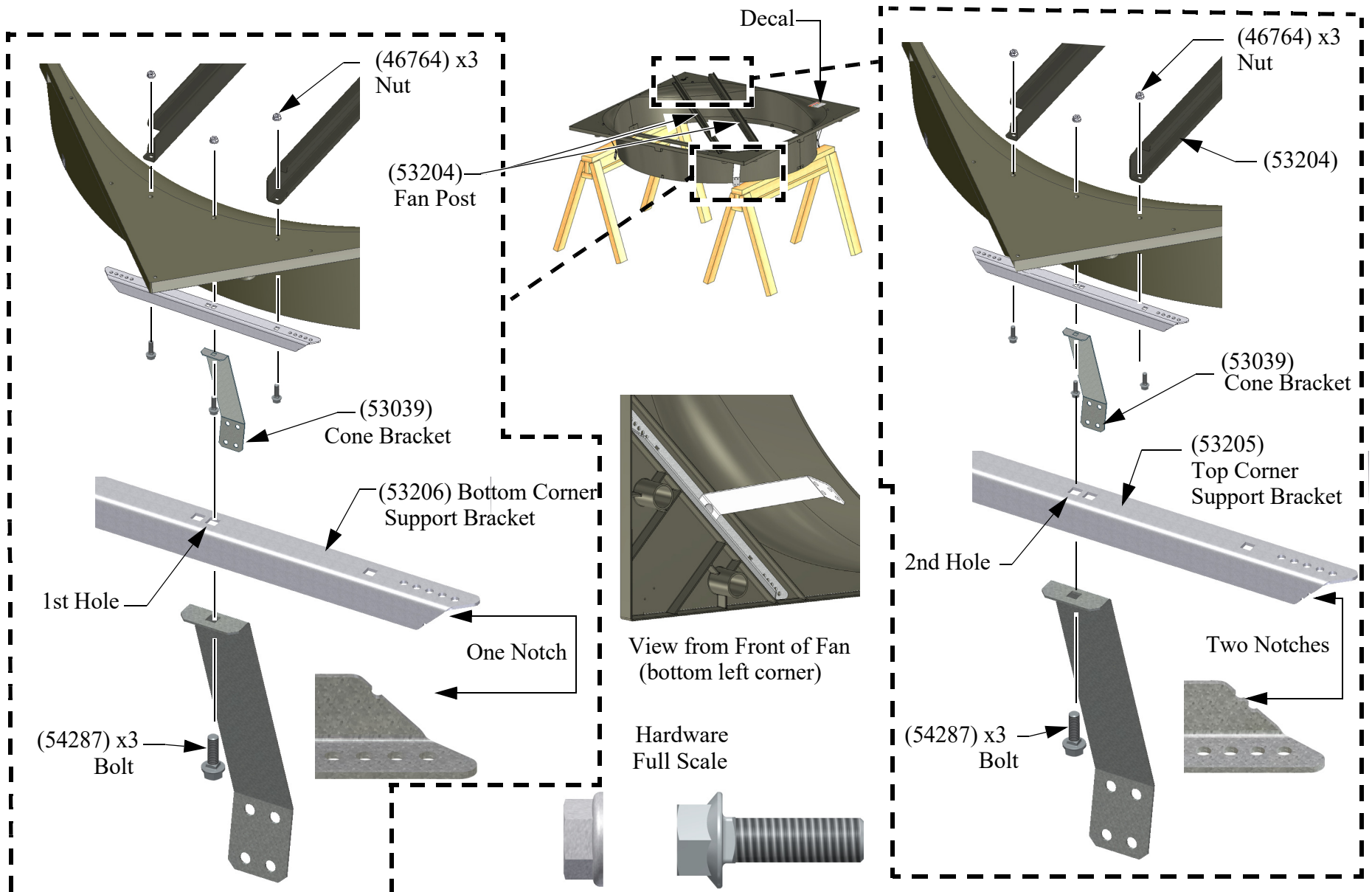


Fan Shroud Assembly (Unassembled version)

Rest the Fan Shroud on saw horses for ease of Assembly

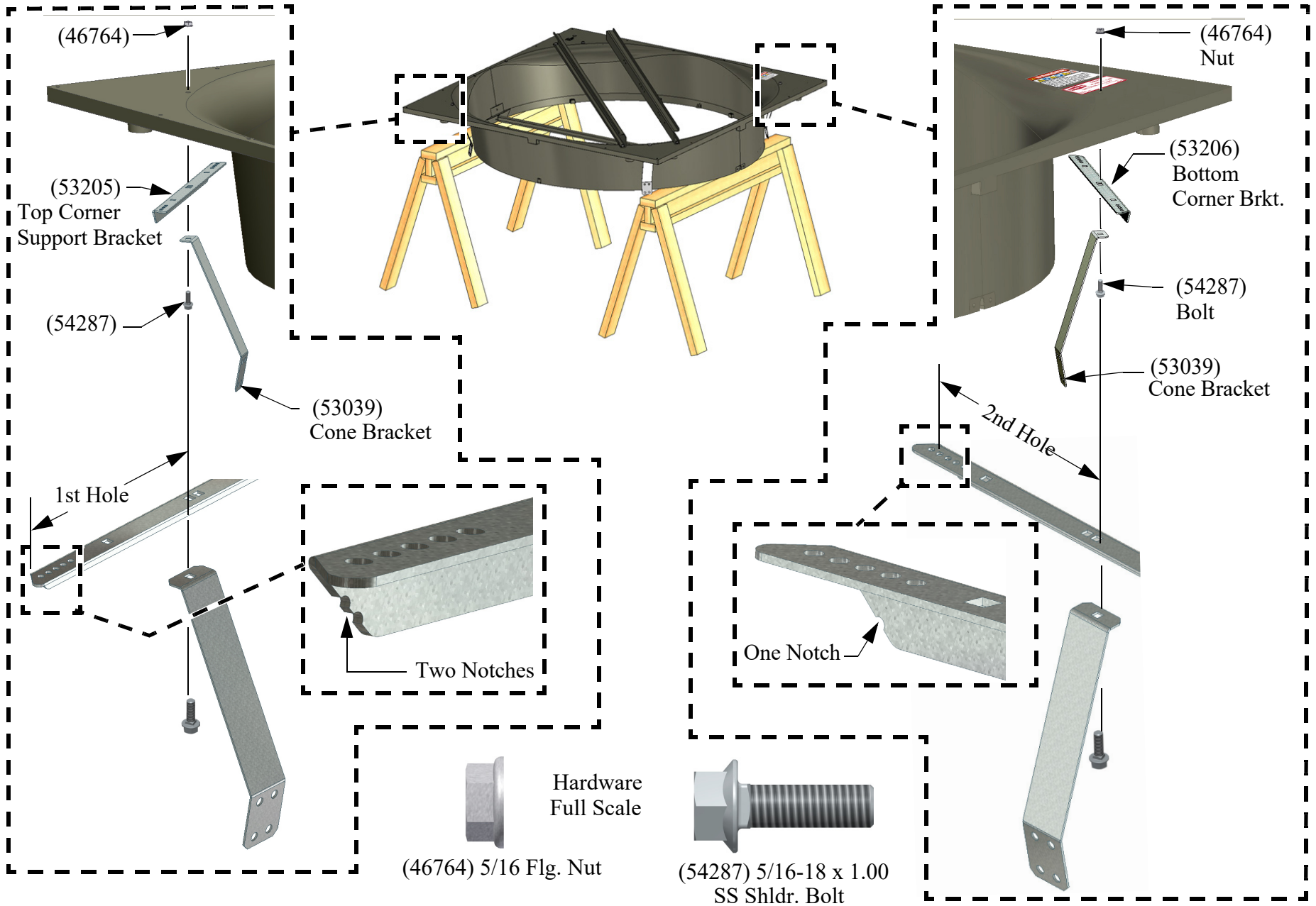


Attaching Fan Posts



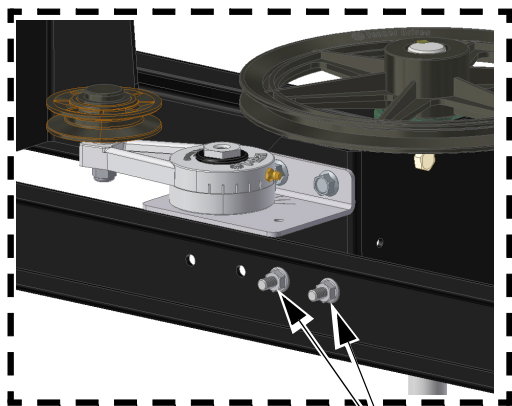
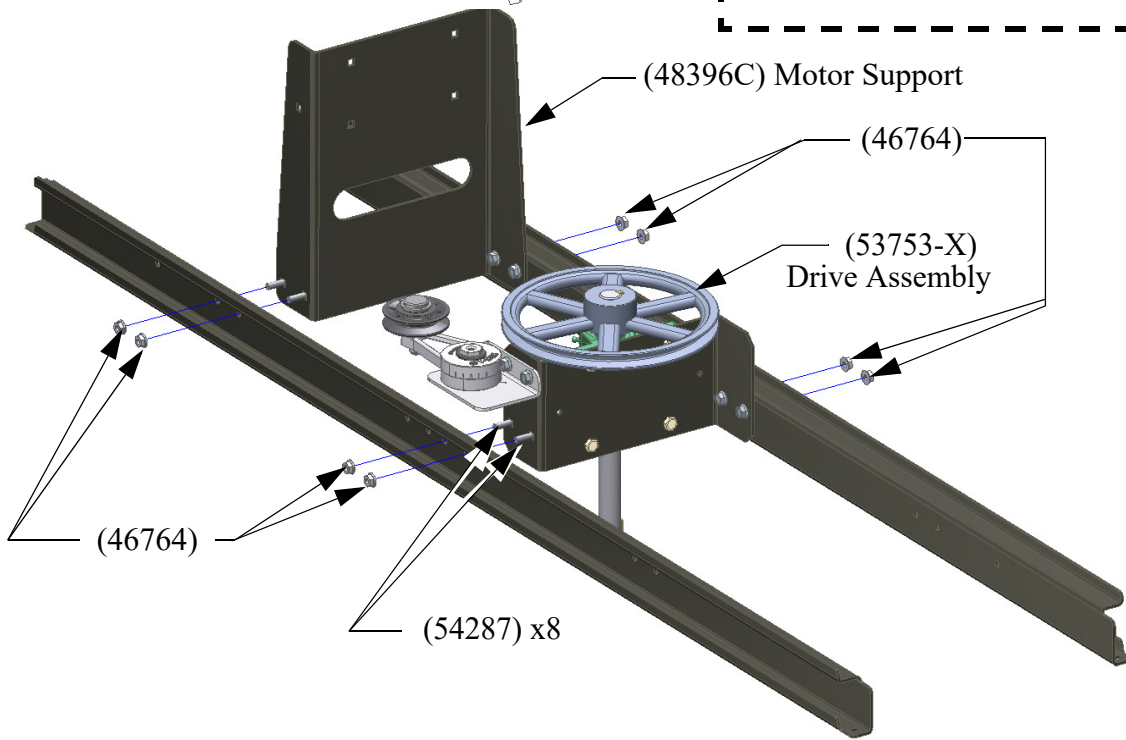
(46764) 5/16 Flg. Nut (54287) 5/16-18 x 1.00 SS Shldr. Bolt

Cone Brackets, Corner Brackets (Corners without Posts)



Installing the Drive Assembly and Motor Mount

Apply a Fan Description Decal to the Shroud as shown. (Included in Parts Package)

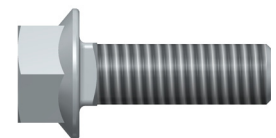


Use the bottom set of holes in the Posts as shown.

Hardware Full Scale

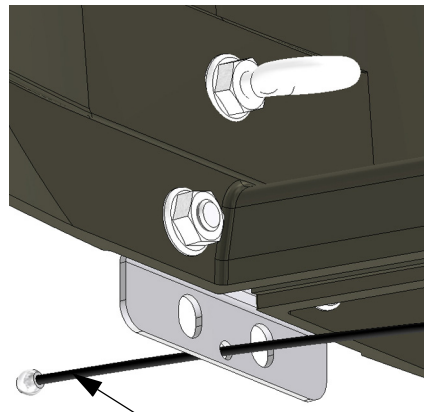
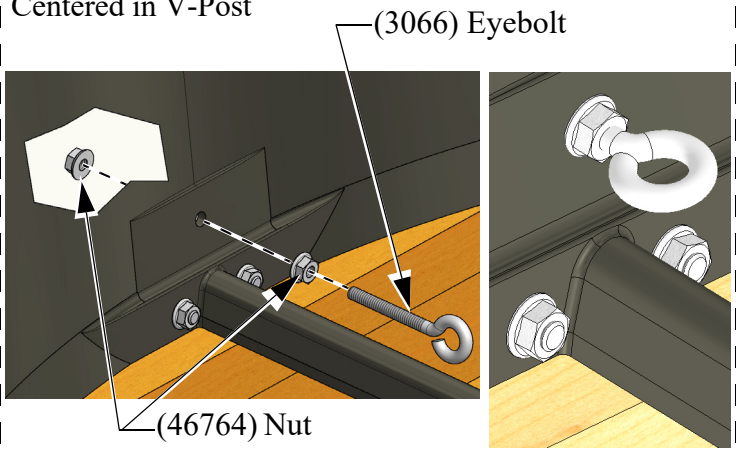
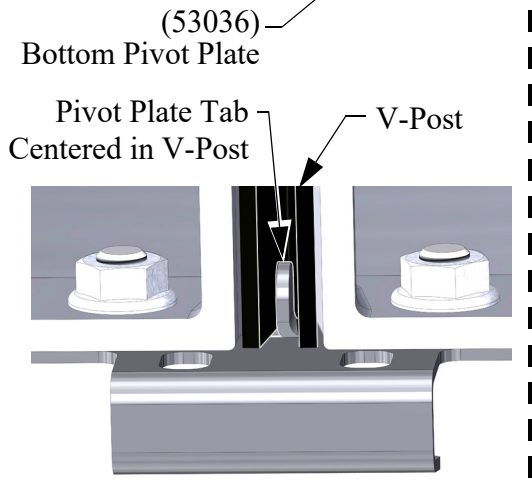
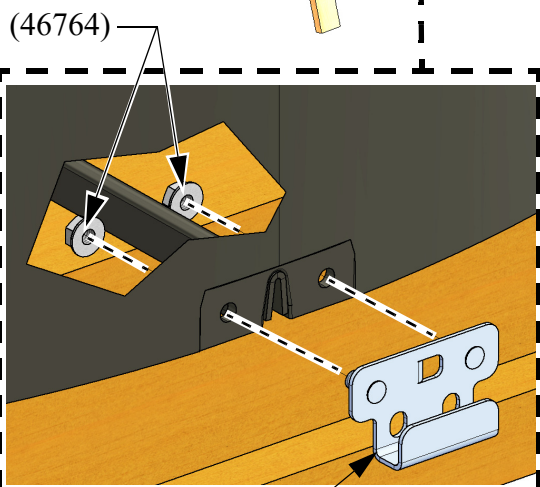
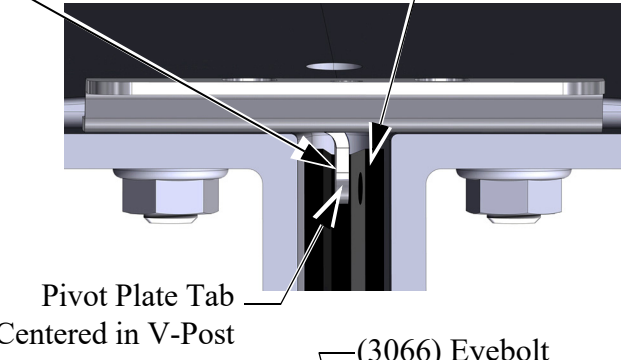
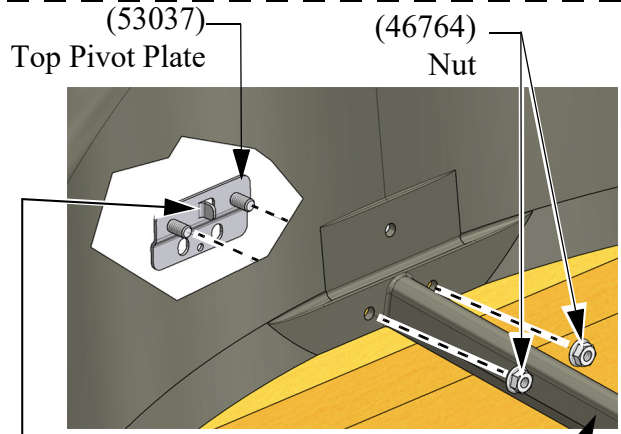
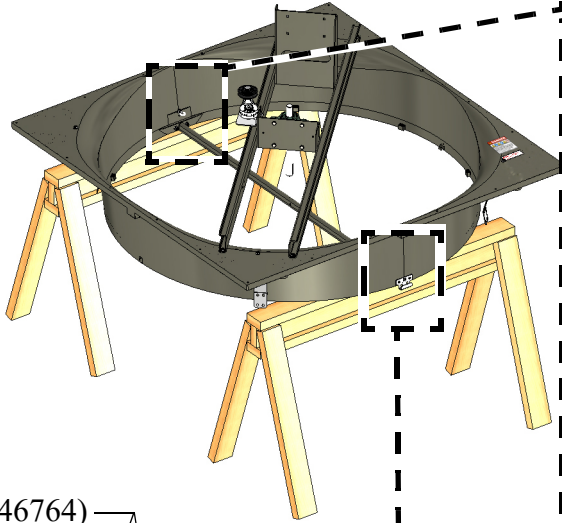


(46764) 5/16 Flg. Nut



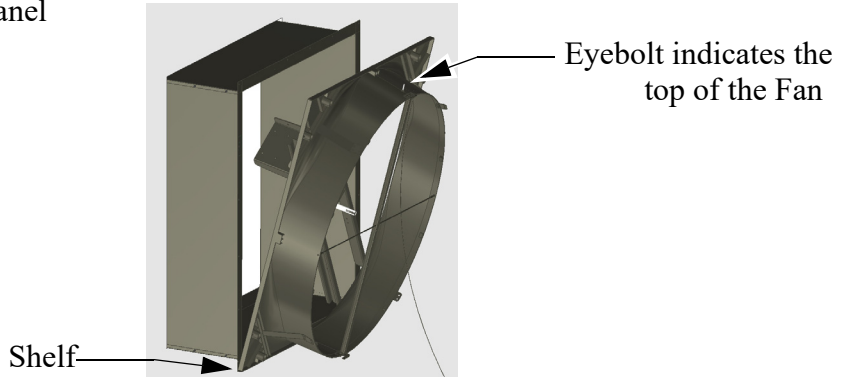
(54287) 5/16-18 x 1.00 SS Shldr. Bolt

Top and Bottom Pivot Plates and Eyebolt, Door Stop Cable

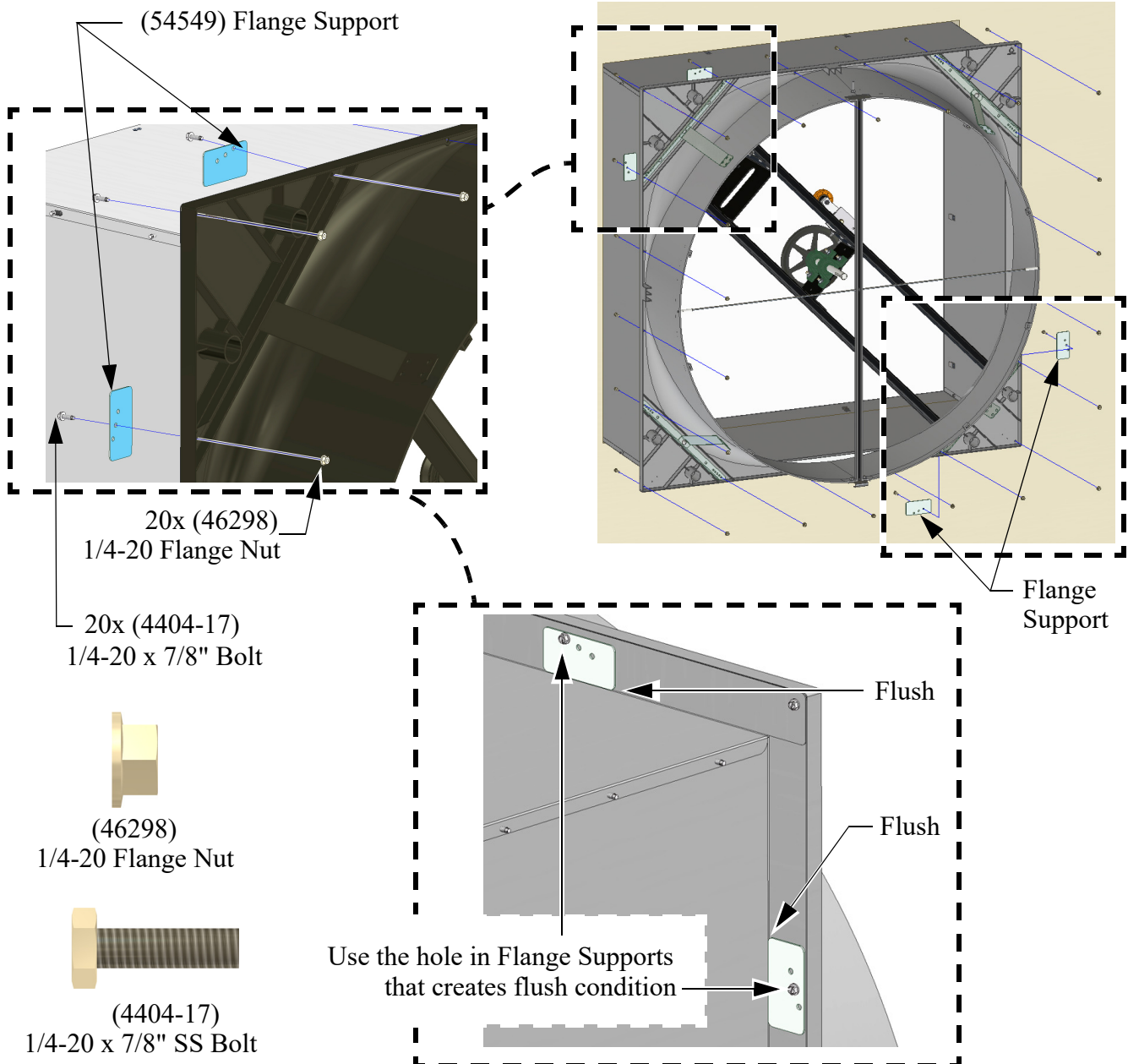


Attaching the Fan to the Extension Housing (shown with doors removed)

Step 1: Set the Fan on the Bottom Panel Shelf as shown.

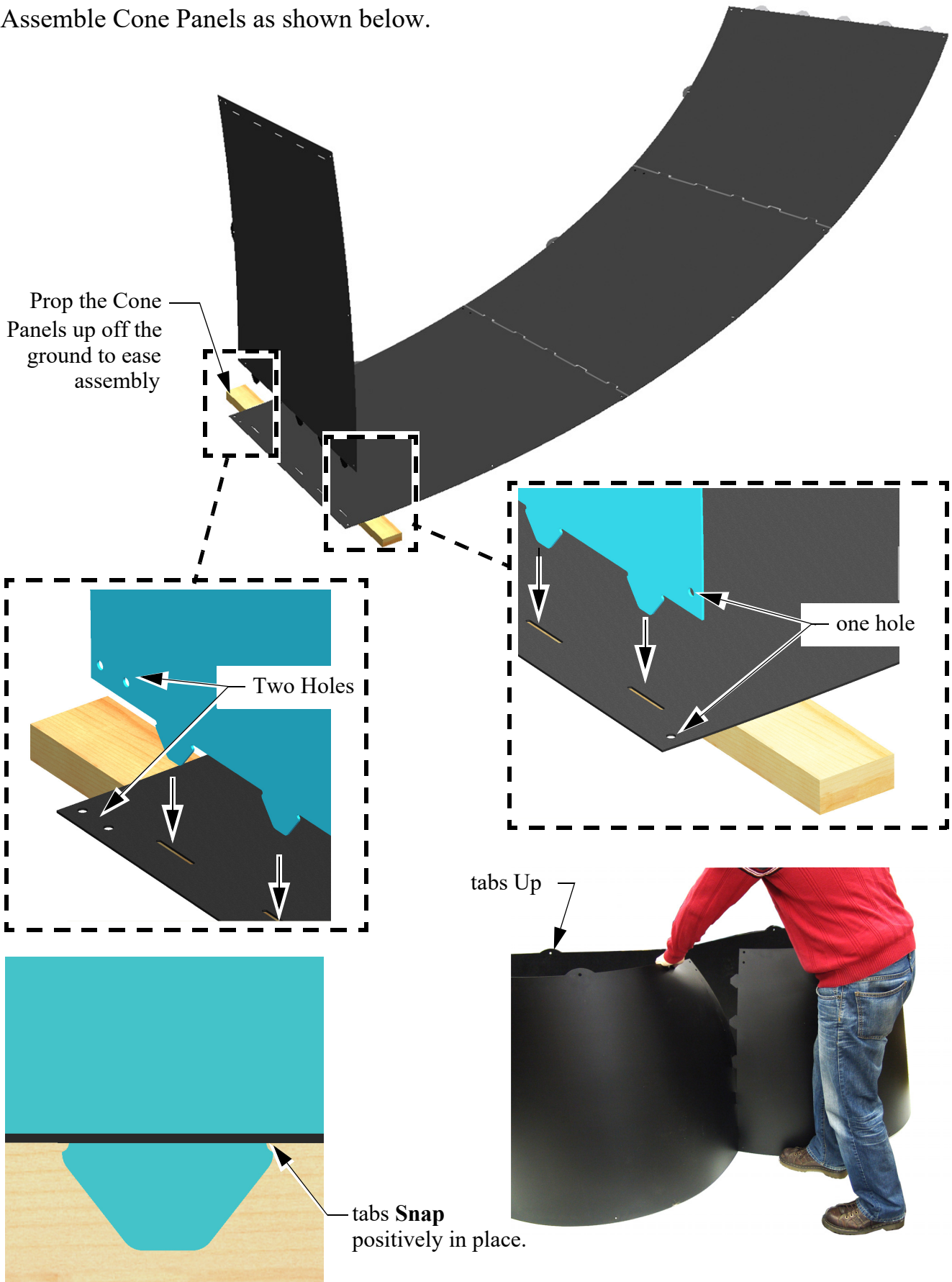


Step 2: Attach the Shroud to the Extension Box Panels with 1/4-20 x 7/8" SS Bolt (4404-17) and 1/4-20 Flange Nuts (46298). Use four Extension Panel Flange Supports (54549) at Post Corners as shown.

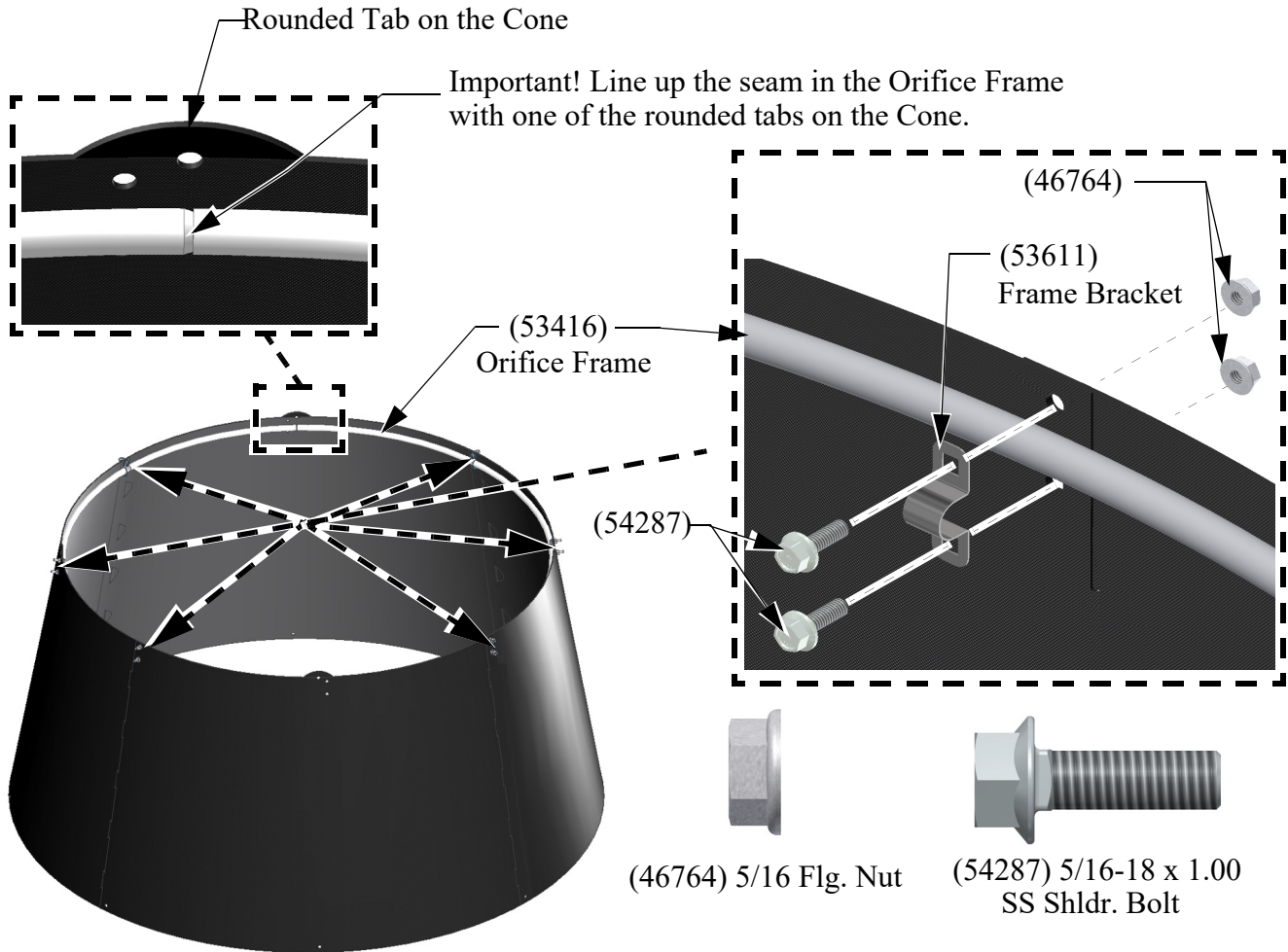


Cone Assembly

Assemble Cone Panels as shown below.



Installing the Orifice Frame



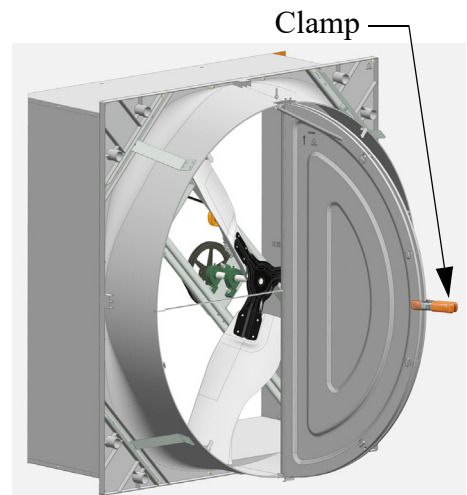
Cone Installation

Important! Before installing a Cone on assembled fan models do either **A** or **B** below.

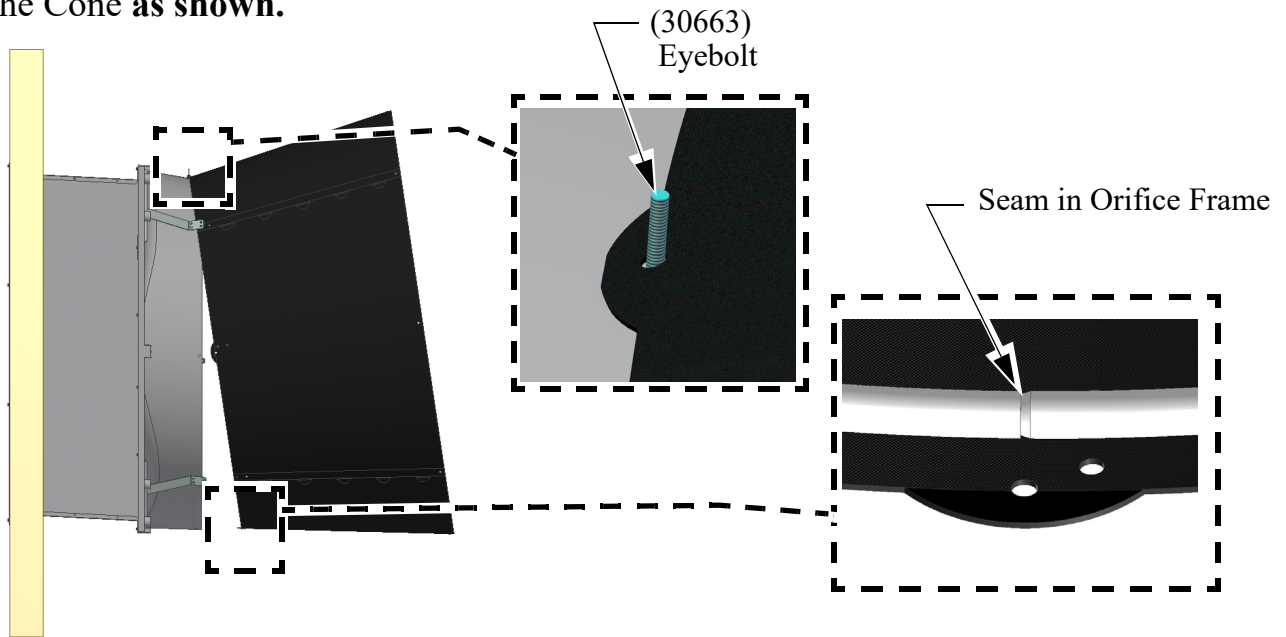
A: Remove the Doors (Below): To remove the Doors Pull near the center of the Door to allow the Door Pins to slide out of the top Door Pivot Bracket. Once the Door is clear of the Top Pivot Bracket lift it from the Bottom Pivot Plate and set aside somewhere safe to be reinstalled later.



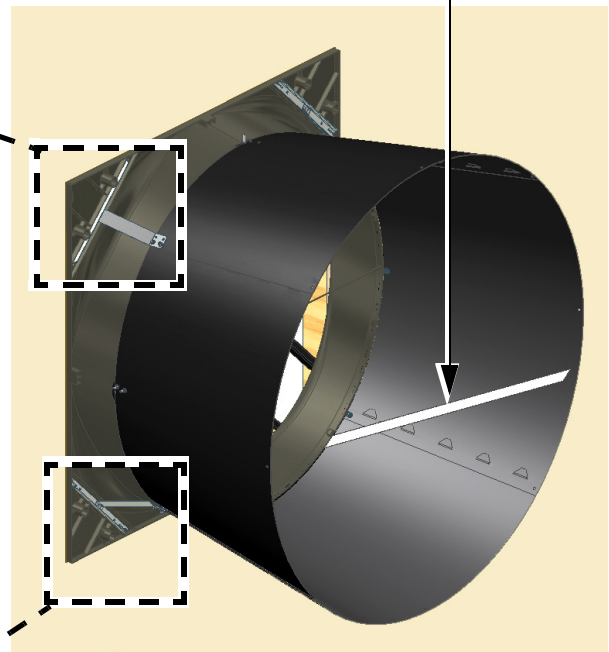
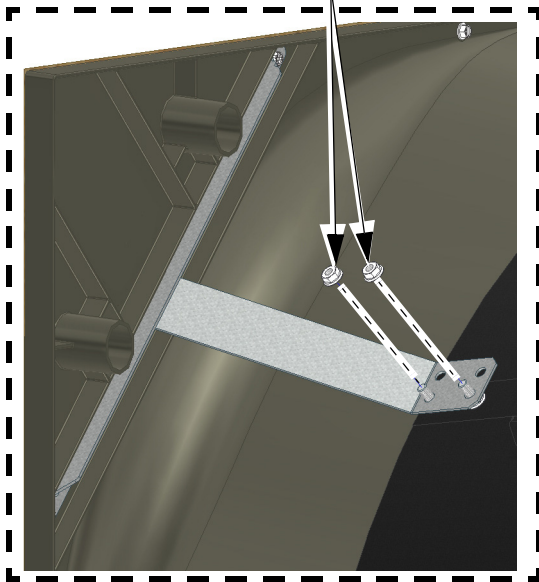
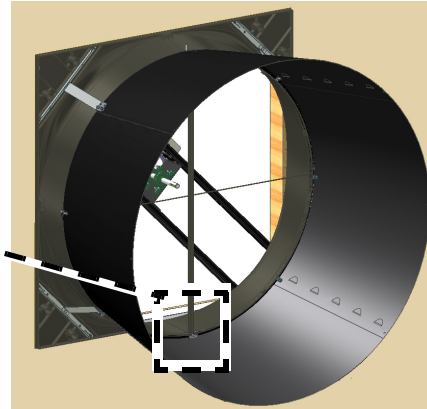
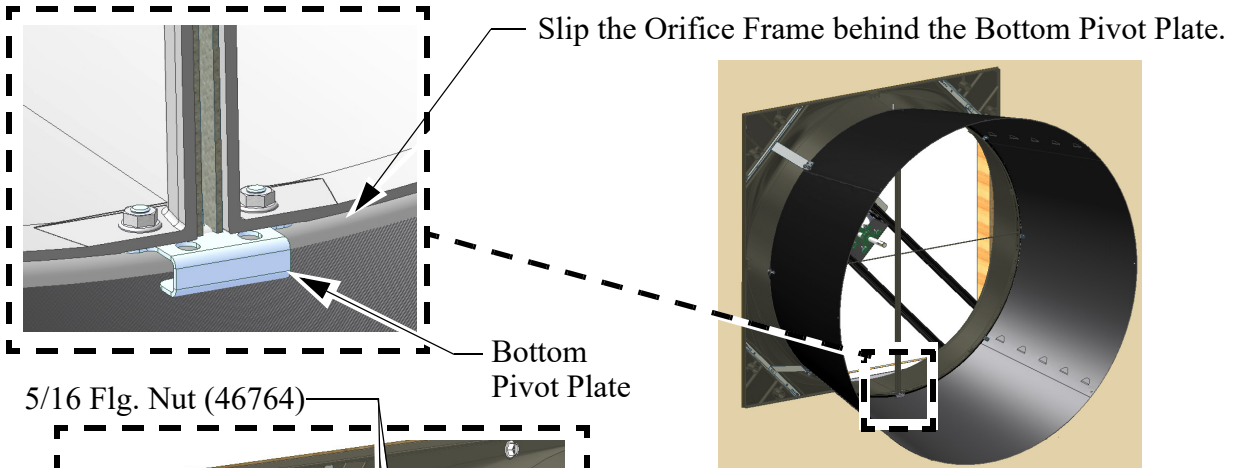
B: Clamp the Doors (Right)



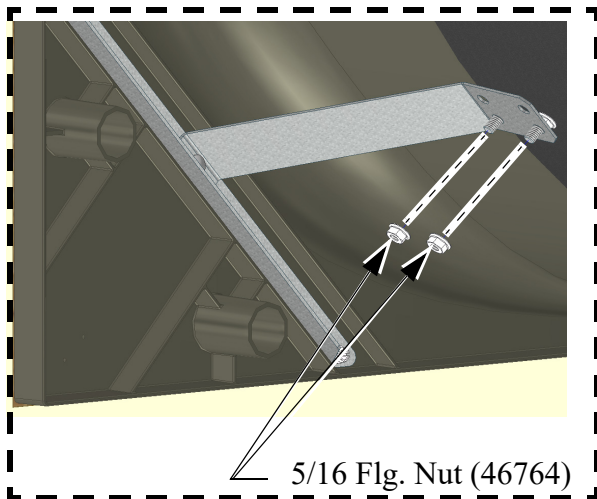
Hang the Cone on the Eye-Bolt extruding from the top of the Shroud using the hole in the Cone as shown.



Attach the cone to the Shroud **as shown below.**



Use the bolts in the Cone to attach the Cone to the Cone Brackets. Use the Bottom set of holes in the Cone Brackets.

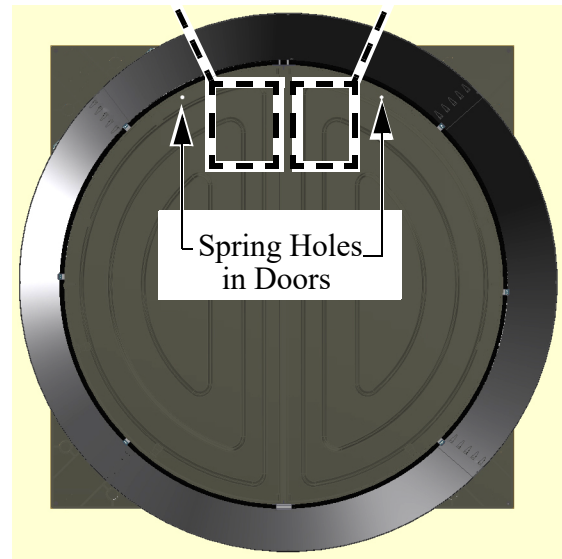
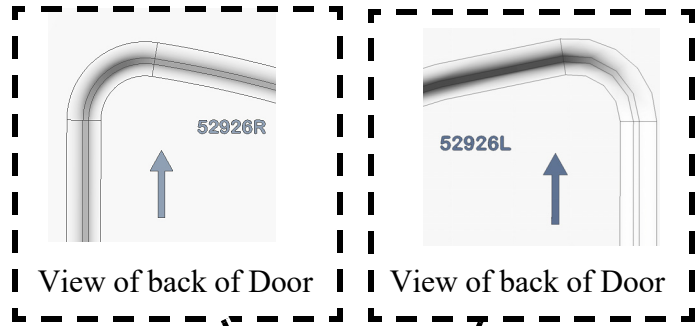
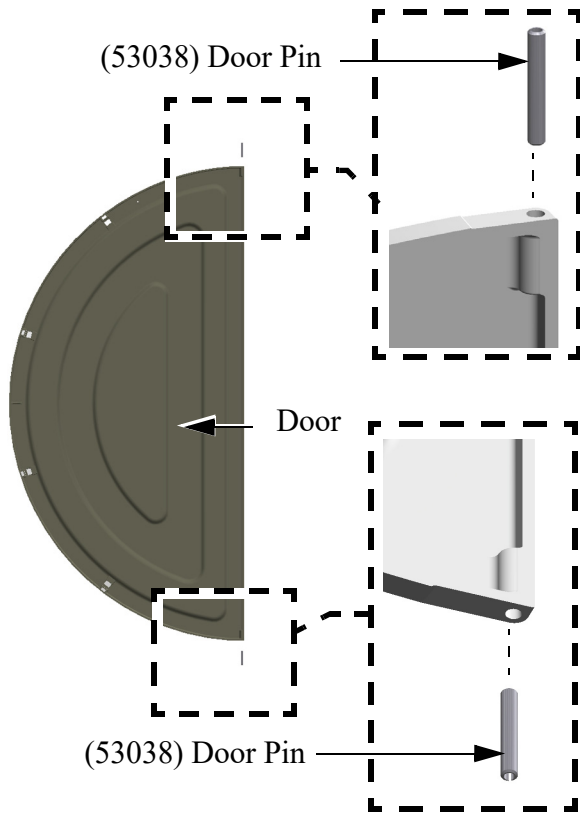


(46764) 5/16 Flg. Nut

Door Assembly and Installation

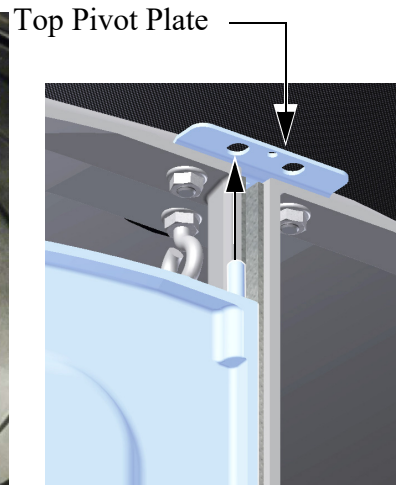
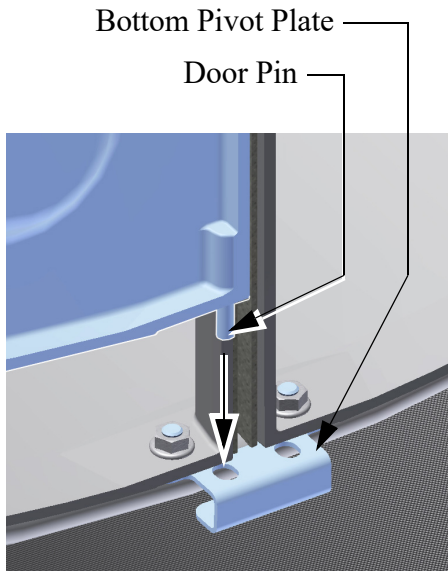
Insert Door Pins in both Doors as shown.
Push Pins in until they bottom out.

Doors are Left and Right specific.



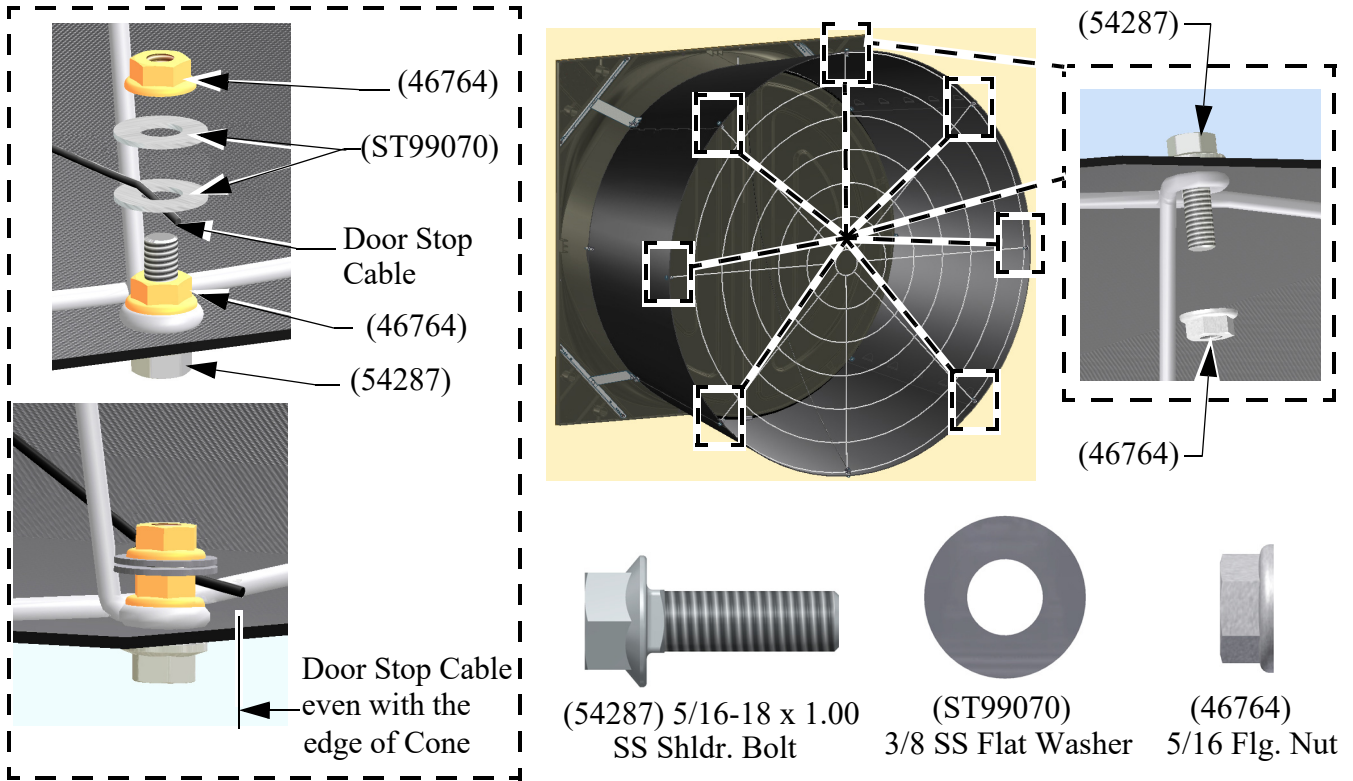
Insert Door Pins into Bottom Pivot Plate.

Grab the Door in the center, bow the Door outward, and insert the Top Door Pin in the Top Pivot Bracket as shown. **Do not Overbow the Doors!**

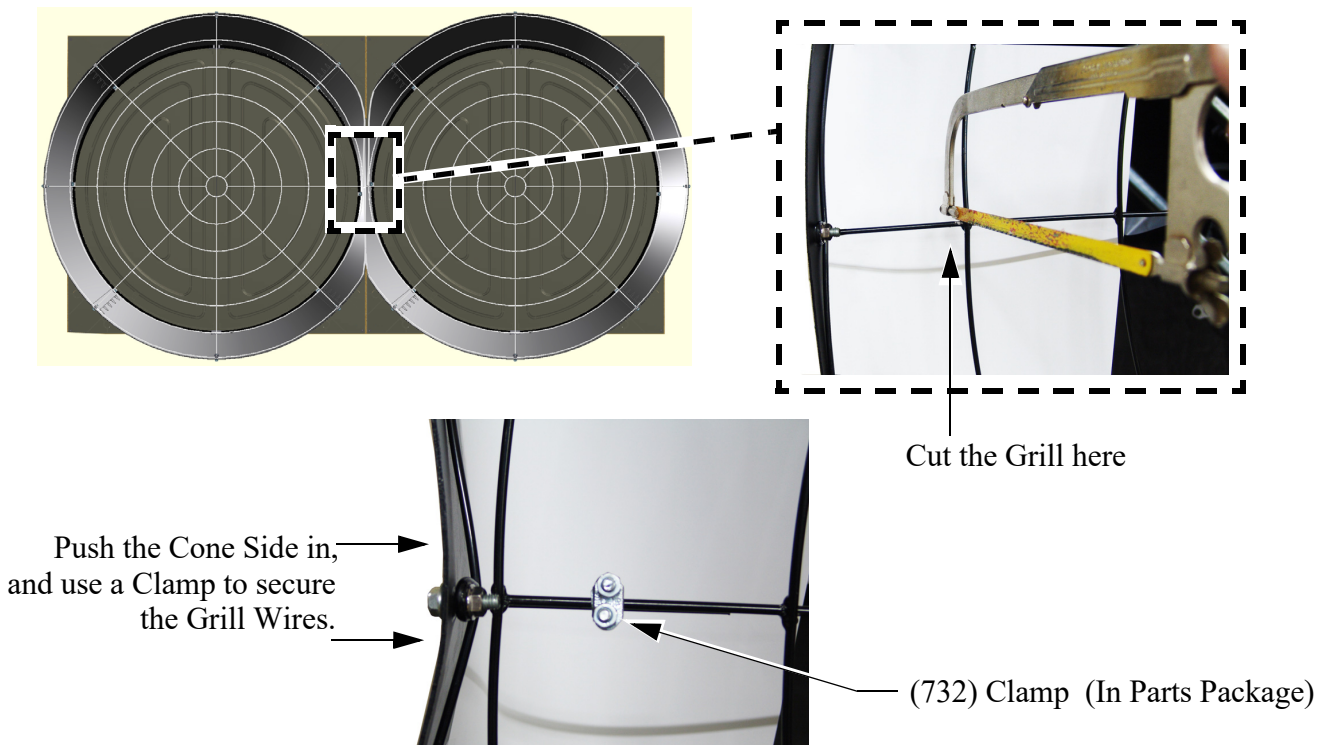


Grill Installation

Install the Fan Cone Grill (as shown). Attach the end of the Door Stop Cable to the bottom Grill leg as shown.



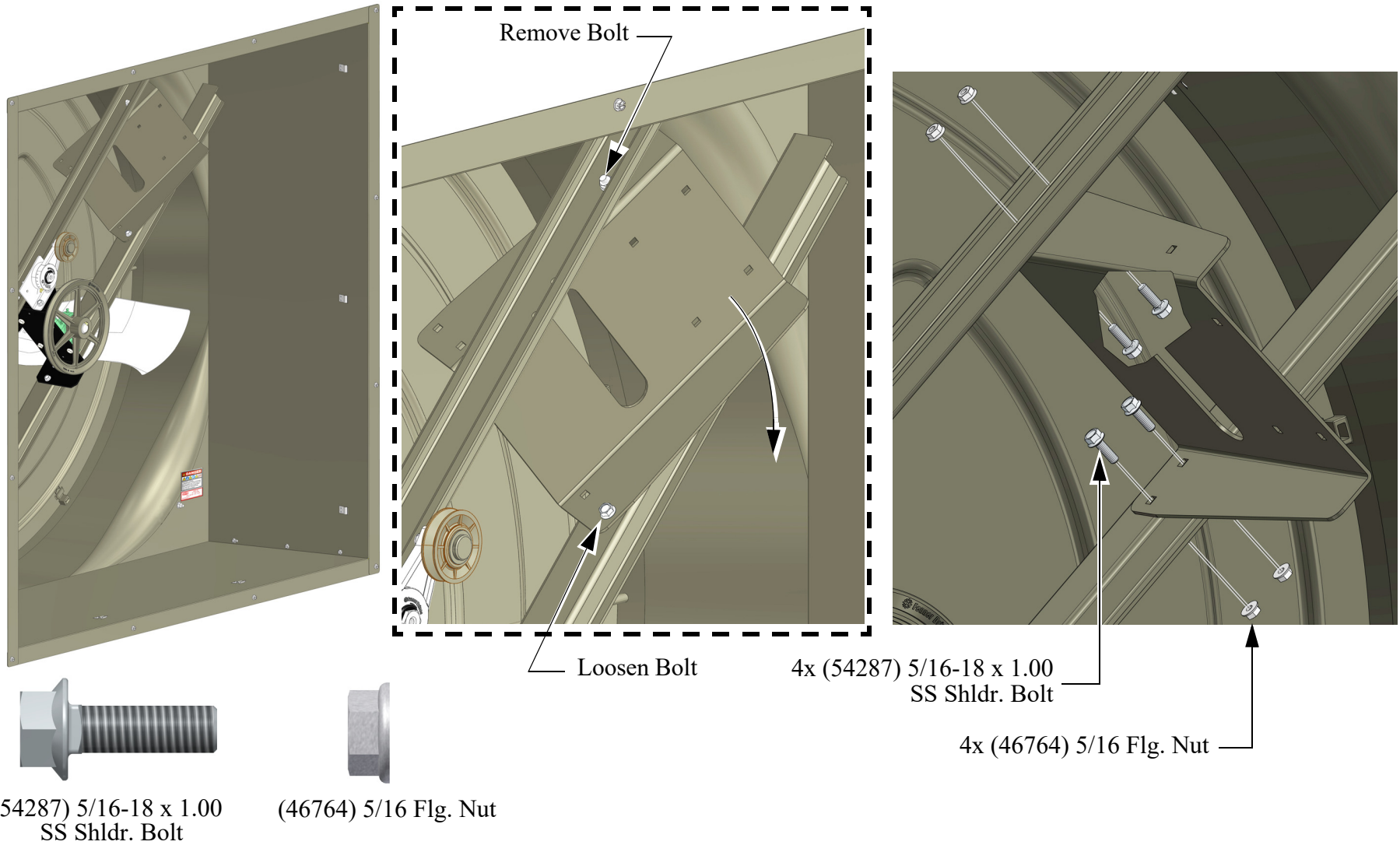
If it is desired to mount Fans at the minimum spacing, cutting the Grills is required as shown.



Rotate Motor Support (Assembled Fans)

Rotate the Motor Support Bracket into the upright position by removing the **upper Bolt and Nut**, and loosening the **lower Bolt and Nut**.

Attach the Motor Support Bracket to the Posts with 5/16 Bolts (54287) and 5/16 Flange Nuts (46764).



(54287) 5/16-18 x 1.00
SS Shldr. Bolt

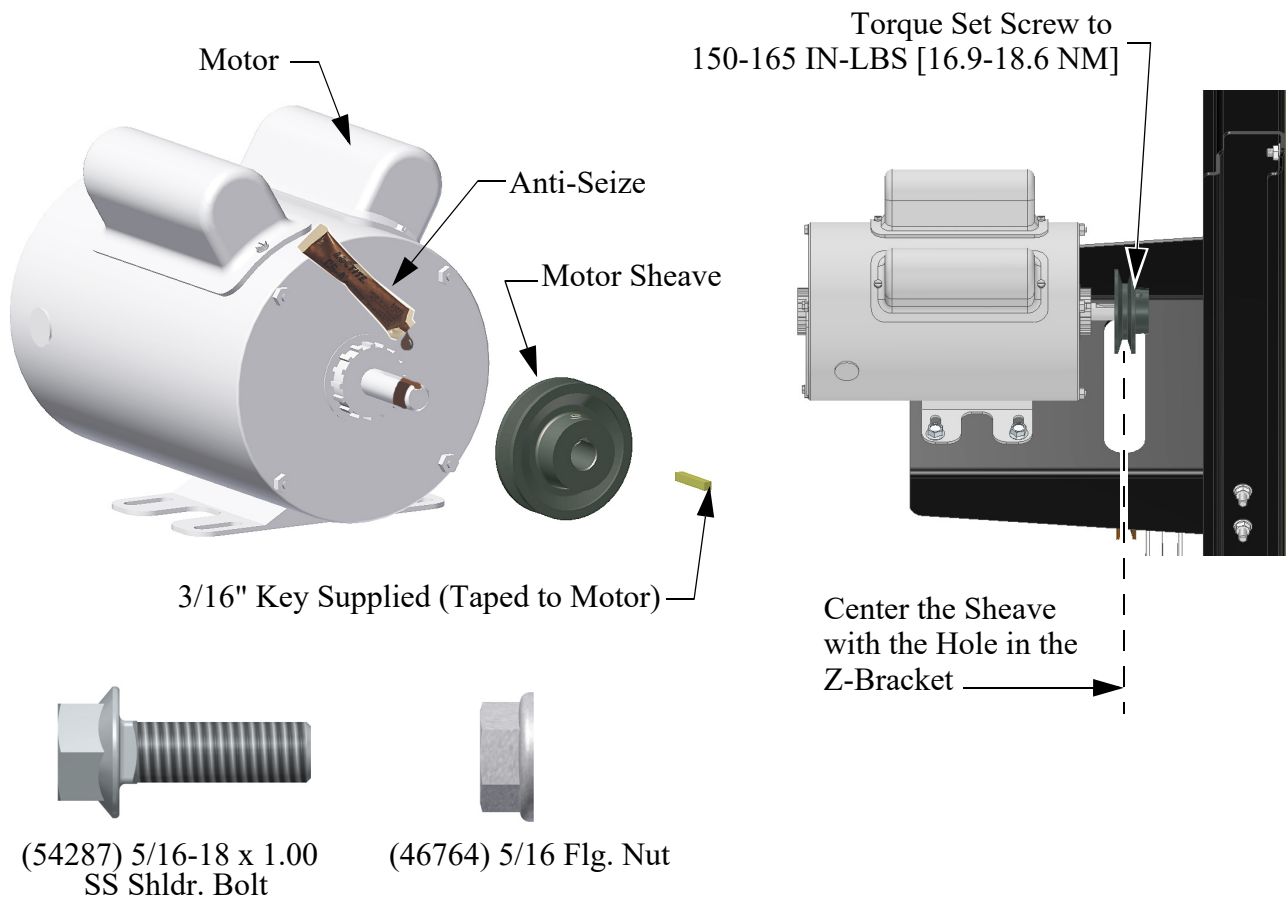
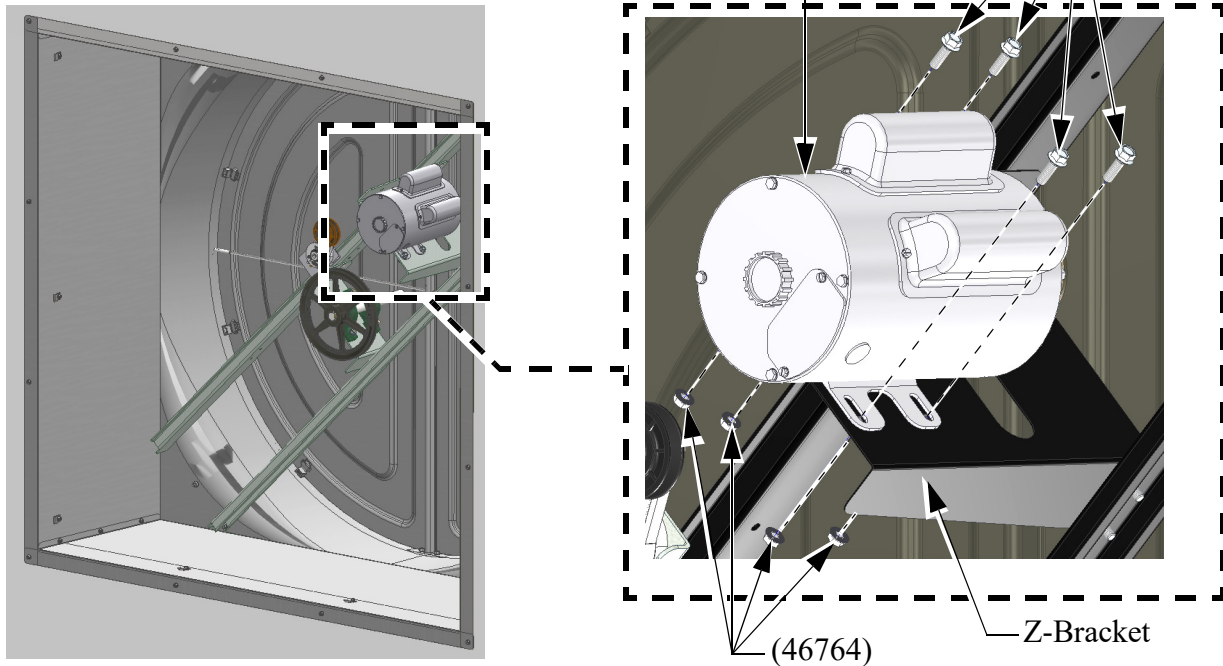
(46764) 5/16 Flg. Nut

4x (54287) 5/16-18 x 1.00
SS Shldr. Bolt

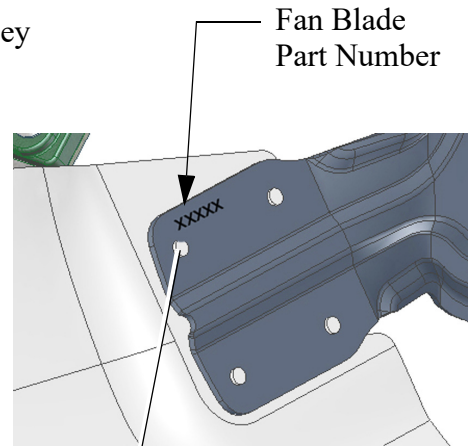
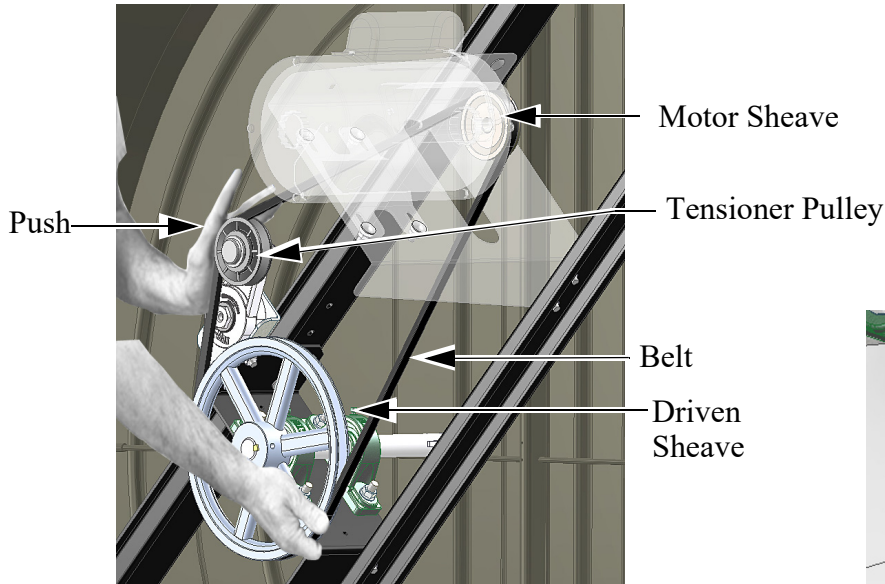
4x (46764) 5/16 Flg. Nut

Motor Installation

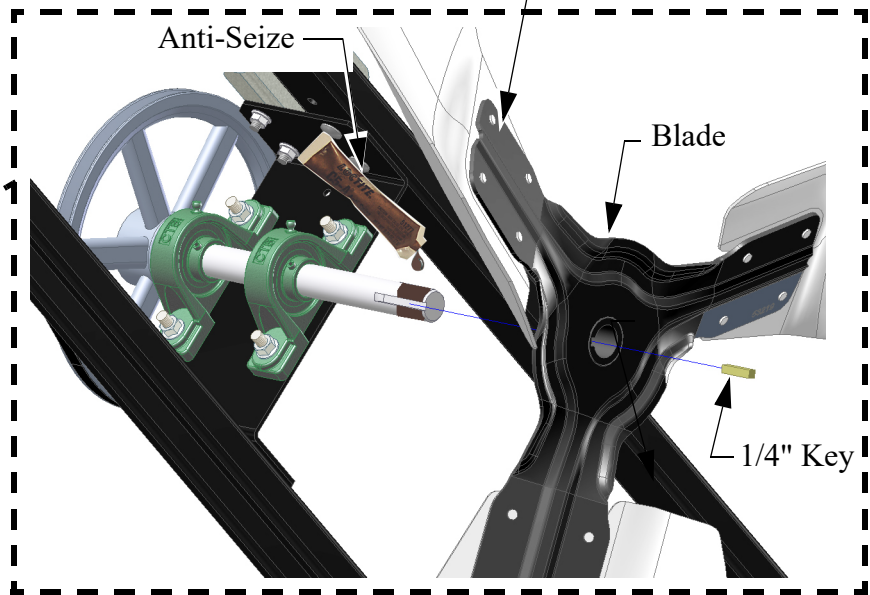
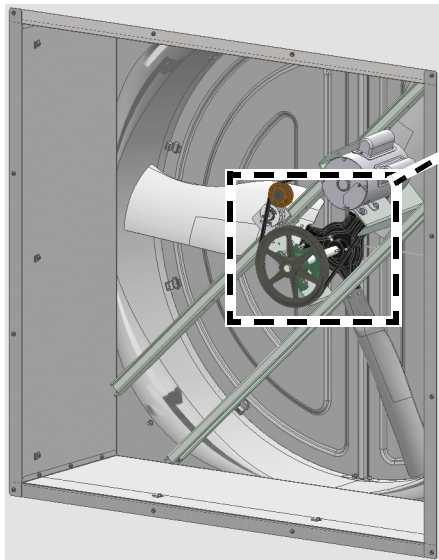
Attach Motor to Z-Bracket.



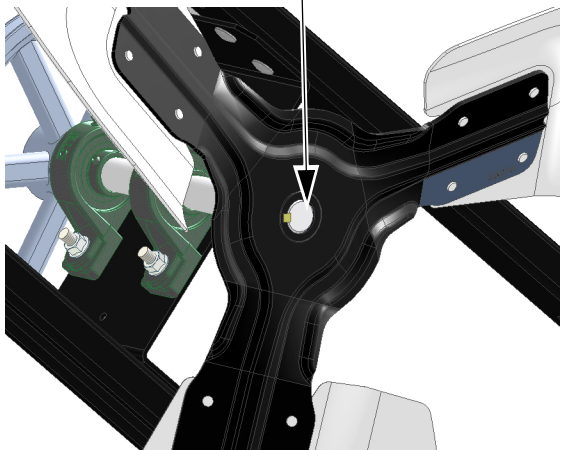
Belt Installation



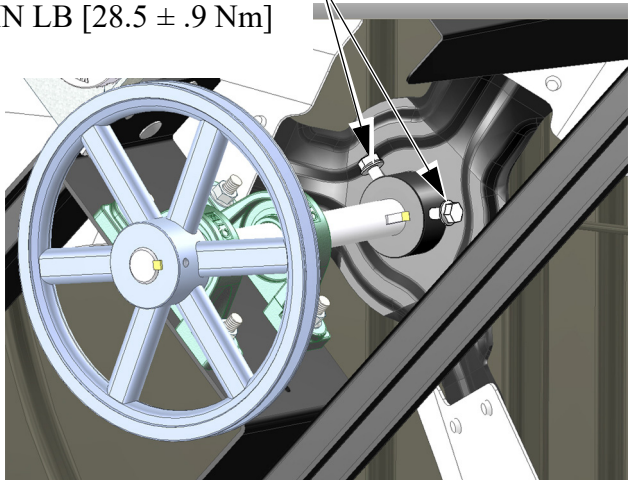
Blade Installation (Unassembled Fans)



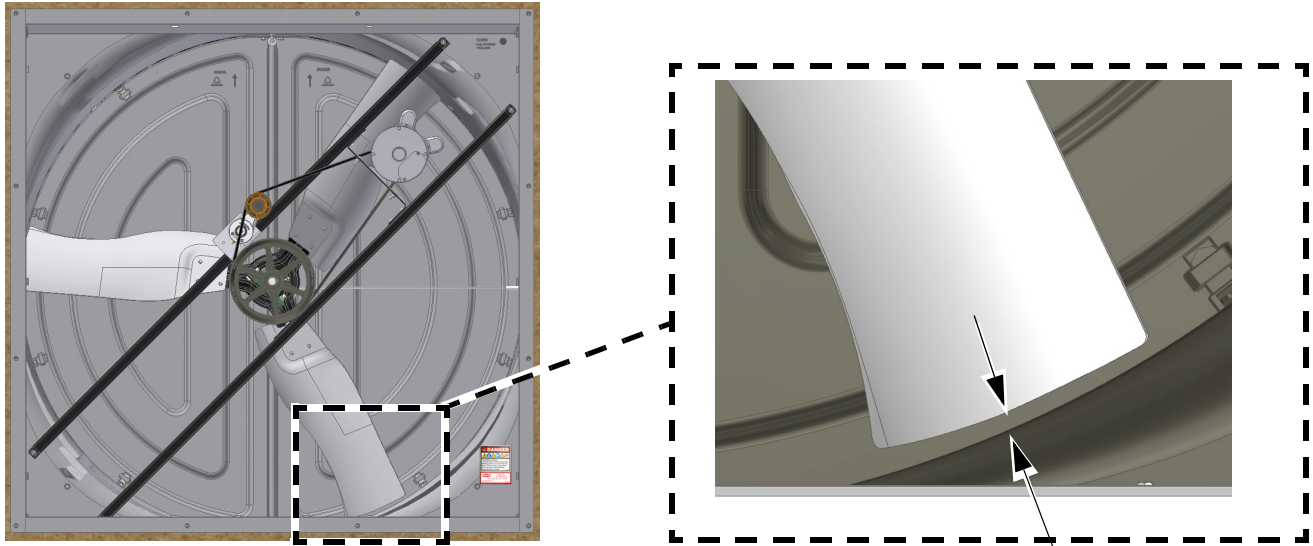
Fan Blade Flush with the End of Shaft.



Torque Blade Set Screws to 252 ± 8 IN LB [$28.5 \pm .9$ Nm]

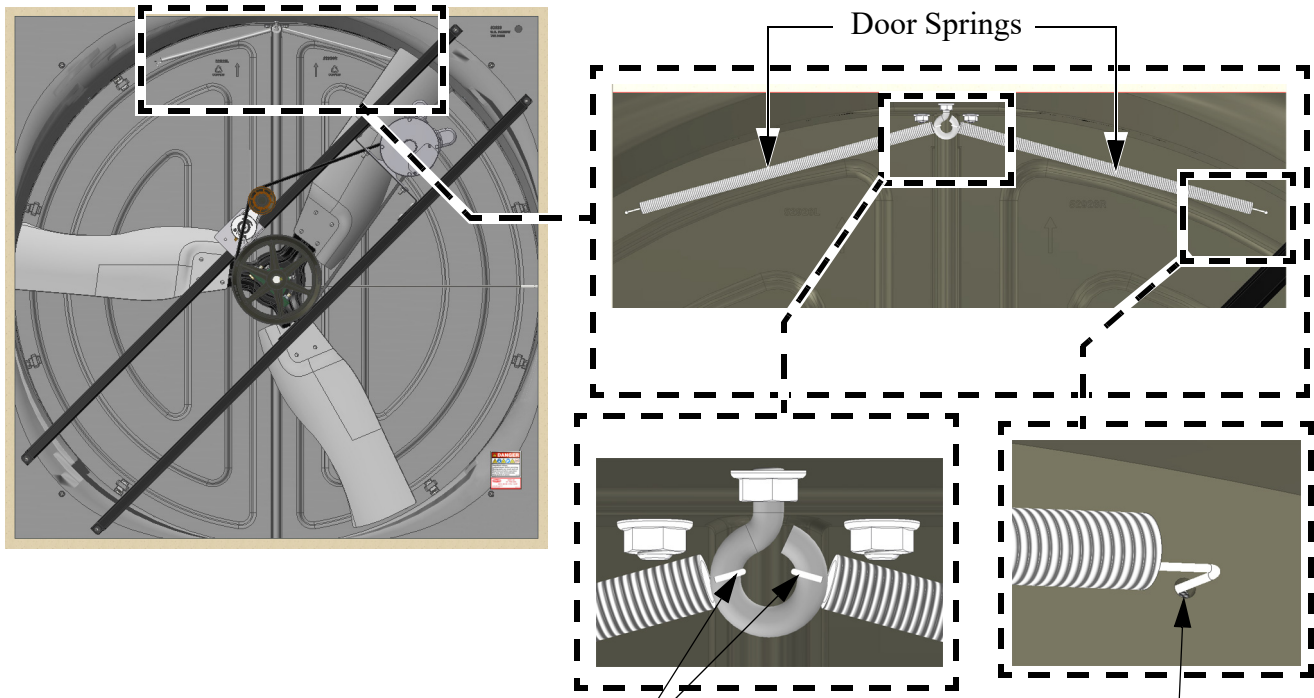


Checking Fan Blade Tip Clearance



Spin the Blade by hand and check that there is minimum of 1/8" [3 mm] clearance from the Shroud all the way around orifice.

Door Spring Installation (Unassembled versions)

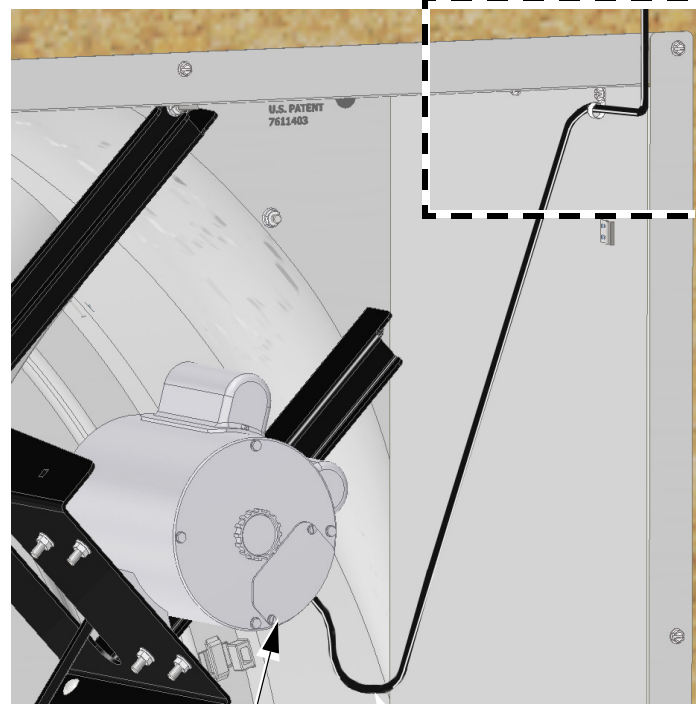
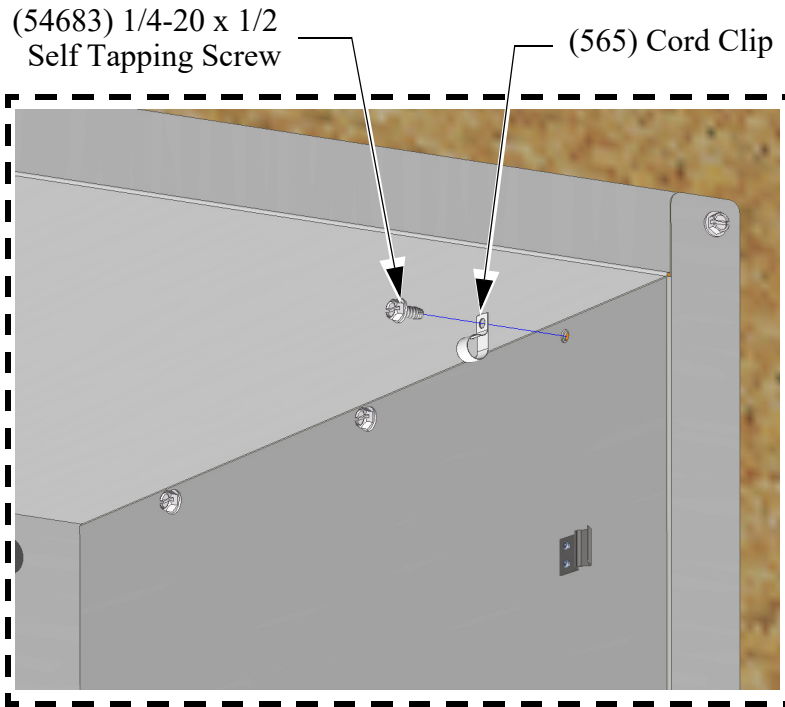


Round end of Springs attached to Eyehook

Elongated end of Spring attached to Door Hole

Motor Wiring

1. Check that the electrical power being supplied to the Fan matches the electrical Specifications on the Fan and Motor Decals.
2. Remove the Motor Access Cover.
3. Install an electrical disconnect within reach of each Fan installed.
4. Connect the cord to the motor according to the wiring diagram on the motor. Verify that the motor is connected for counter clockwise rotation (viewing the back of the motor, opposite the shaft end.)
5. Follow local, state, and national electrical codes for wiring.
6. Remove the (46689) Self Tapping Screw in the front corner of the Extension Box Panel and attach the Cord to the Side Panel with a (565) Cord Clip **as shown**. Allow enough slack in the Cord to form a "drip loop" for moisture to fall away from the Cord and not into the motor.



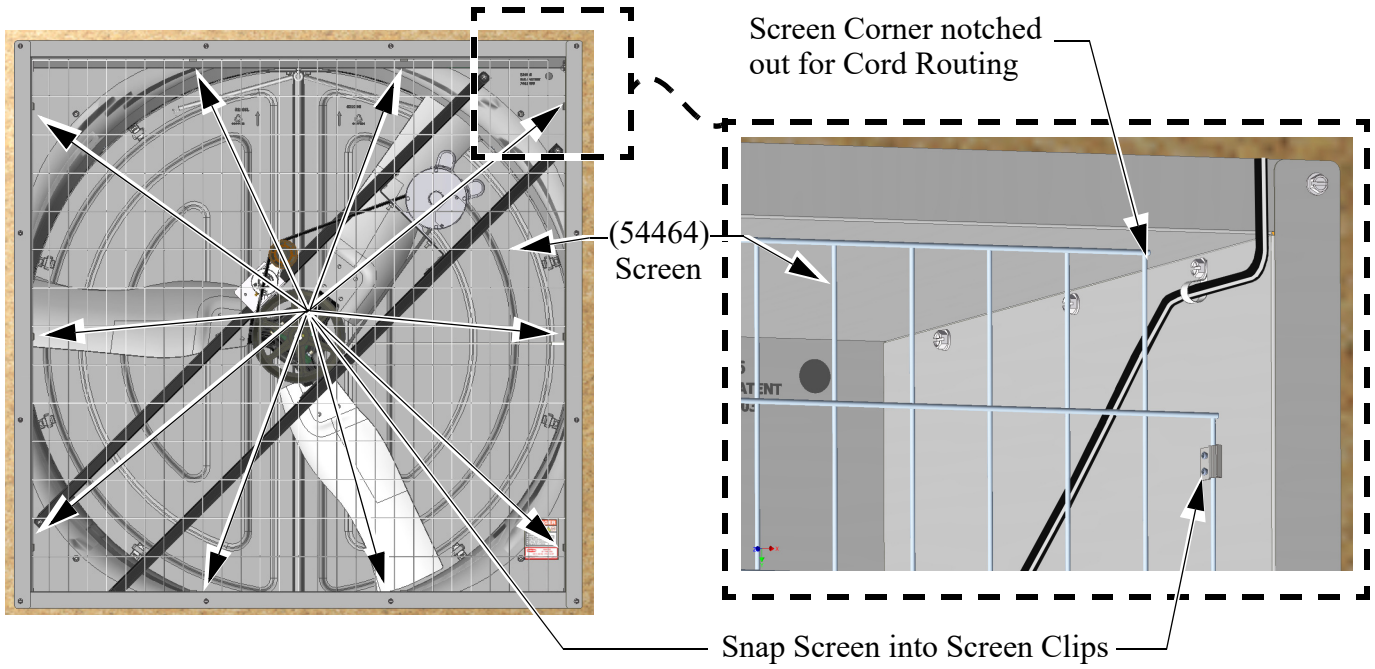
(54683) 1/4-20 x 1/2 Screw

Motor Access Cover

Drip Loop

Screen Installation

Attach the Screen **as shown**. Orient the Screen so the notched corner is upper right for Cord Routing.



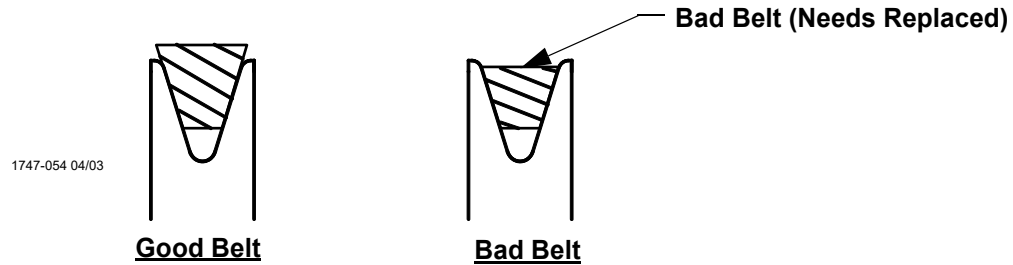
Test Fan for proper operation.

Plug the Fan in and test for proper operation

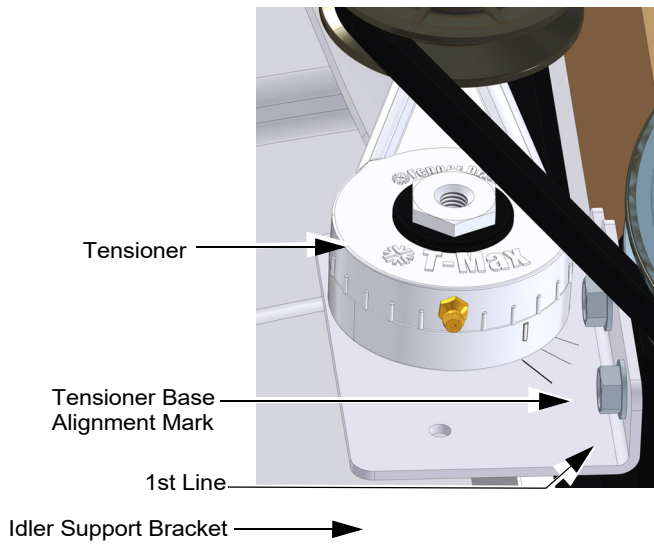
Maintenance

IMPORTANT! Disconnect Power Prior To Maintaining Or Cleaning The Fan. The fan may start automatically causing serious injury or death.

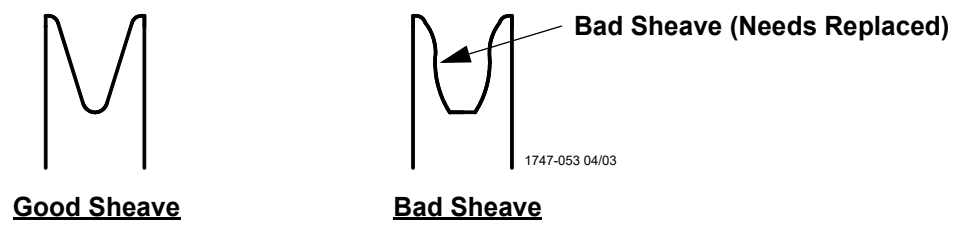
- Service and repair of fans should be done only by a qualified technician.
- Minimize contact of moisture or corrosive chemicals to the surfaces of the fan components to maximize fan life.
- After washing fans, operate fans long enough to remove moisture from all fan surfaces.
- Keep the fan clean for maximum life and best performance. **Do Not spray water on the Fan Shaft Bearings, the Belt Tensioner, or the Motor.**
- Periodically check the V-Belt and replace if necessary. A worn Belt will cause a substantial drop in Fan performance or it can break and cause Fan failure. If a Belt rides below the Sheave edge, replace the belt. (See below)



- Check Belt Tension. The Belt should be tensioned just tight enough to minimize Belt slippage. Over tensioning the belt will cause premature Belt and Bearing wear.
- The Alignment Mark on the Tensioner Base should be lined up with the 1st line on the Idler Support Bracket.

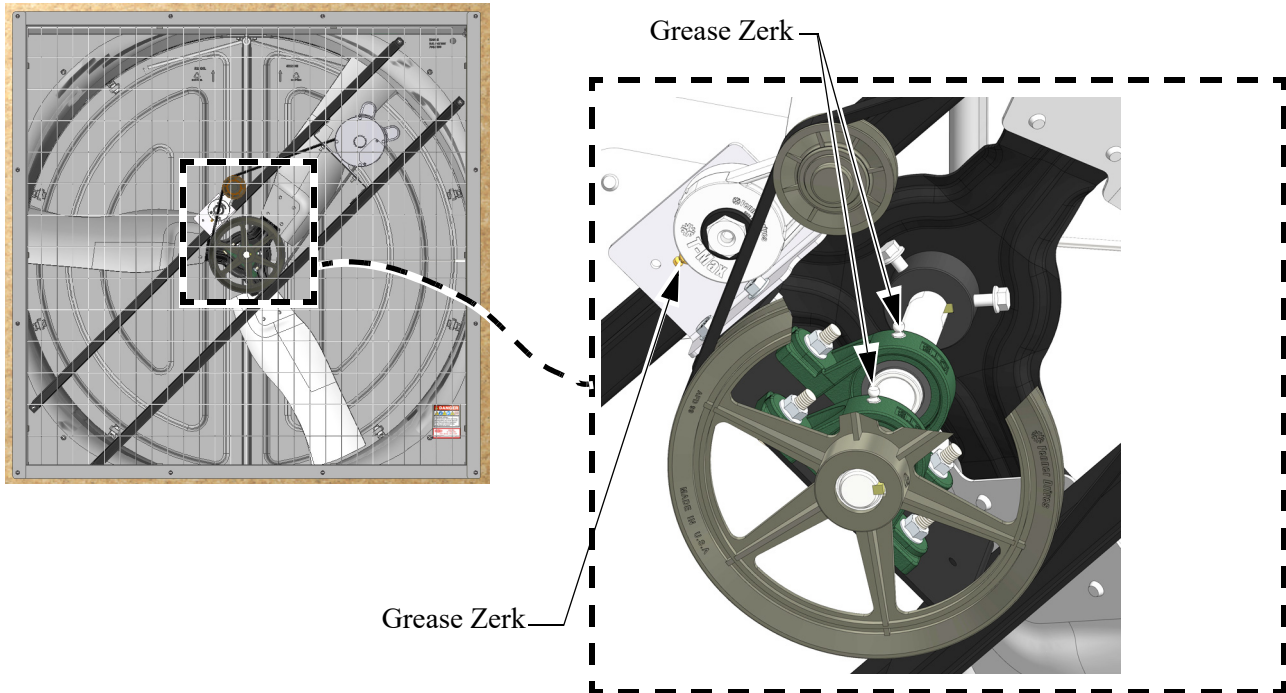


- Check Sheaves for wear. Replace if a Sheave groove is worn.



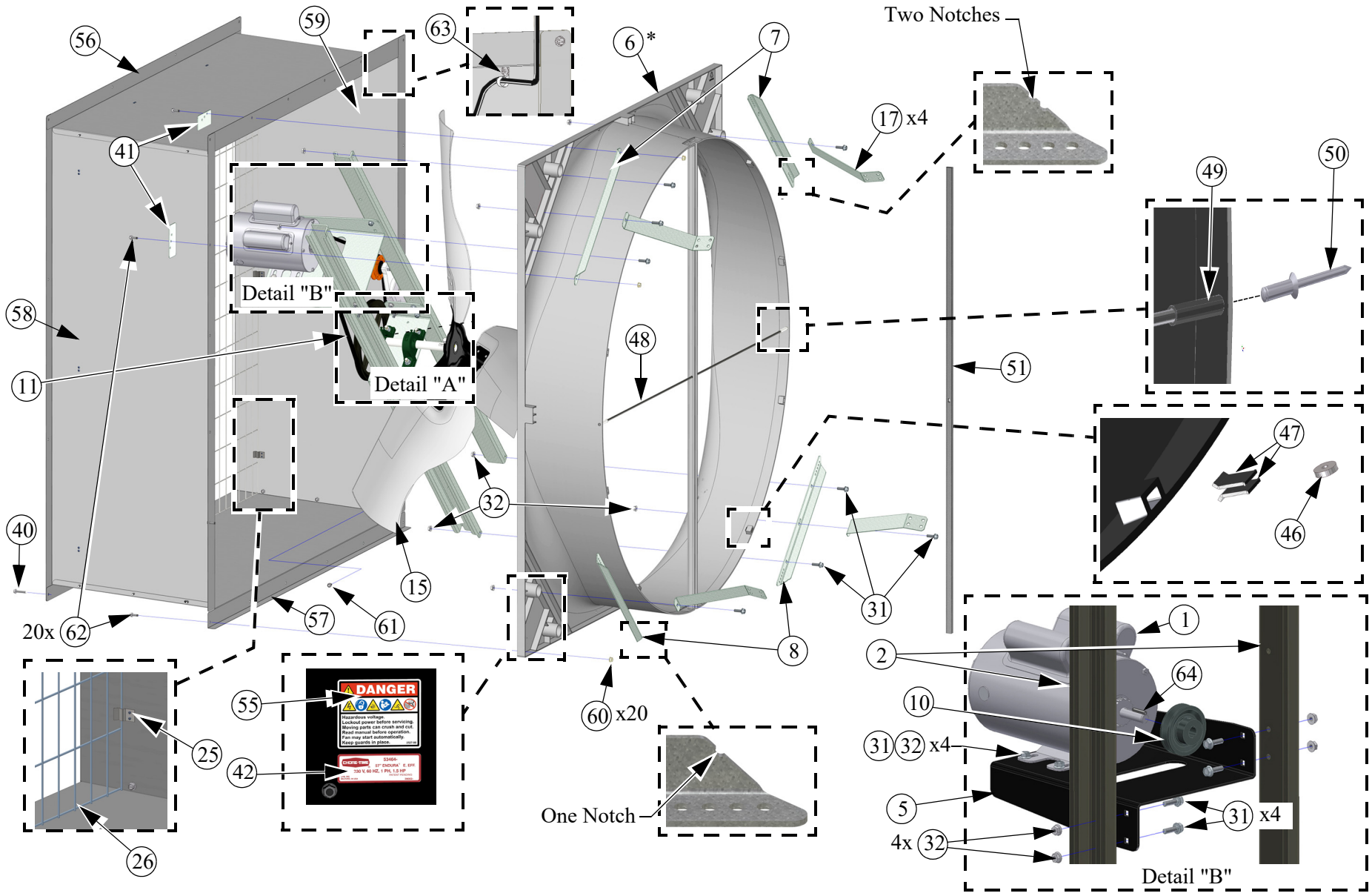
Fan Bearing and Belt Tensioner Lubrication

- Grease zerks are provided for lubrication on the fan shaft bearings and the belt tensioner.
- Lubricate the fan every 2-6 months or whenever these components get wet.
- Disconnect power to the fan before lubricating.
- Clean the zerk before lubricating to prevent contamination from entering the bearing.
- Use a high quality lithium based, NLGI #2, grease such as Shell Gadus S2 V100 2. Do not use incompatible greases containing aluminum, barium, calcium, bentonite clay or polyurea thickeners.
- Slowly rotate the fan shaft by hand while slowly applying the grease. Rapidly applying grease to a stationary bearing can damage the bearing seals.
- Apply about .10 oz (2.8 g, 3.1 cc) of grease at a time or until a slight amount of grease can be seen purging from the seal.

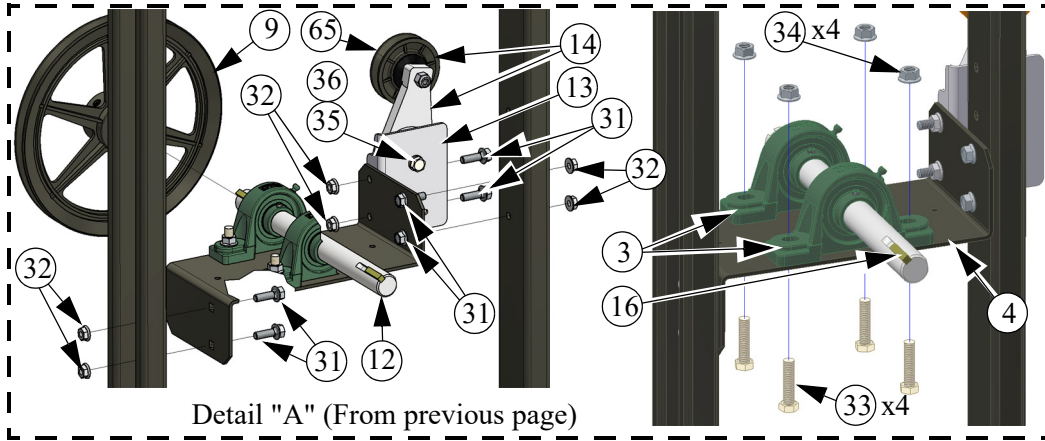


Note: Some Parts removed for Clarity

Part Numbers (Itemized)



Part Numbers



Detail "A" (From previous page)

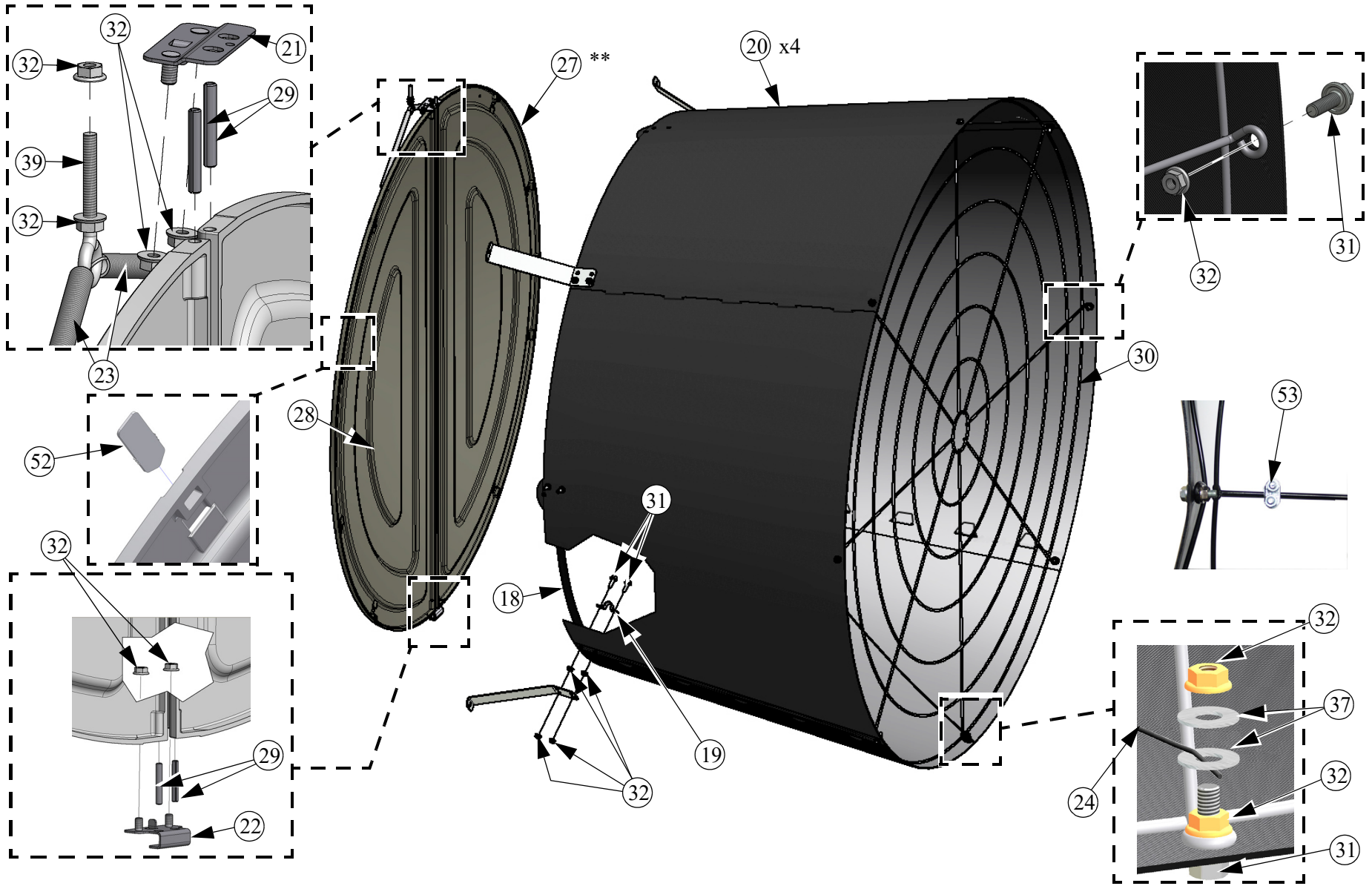
57" Belt Drive Endura® Fan Part Numbers 54659-XX, -XXS

Item	Qty.	Description	Part No	Models
1	1	Motor, 1.5H 1PH-60HZ-230V	56850	-22, -22S
		Motor, 1.5H, 1.67SF 3PH-60HZ, 230/460V, 1.3SF 3PH-50/60HZ, 200-230/380-480V	56102	-41,-42,-51,-52,-41S,-42S,-51S,-52S
		Motor, 1.5H 1PH-60HZ-230V	56708	-21,-21S
2	2	57" Fan Post	53204	All
3	2	1" Pillow Block Bearing	50553	All
4	1	Bearing Support	48395C	All
5	1	Motor Support	48396C	All
*6	1	57" Fan Shroud Assembly	52925	All
7	2	Upper Corner Support (2 Notches)	53205	All
8	2	Lower Corner Support (1 Notch)	53206	All
9	1	AFD99100 Composite Sheave	54118	-21,-22,-41,-42,-21S,-22S,-41S,-42S
		AFD94100 Composite Sheave	54897	-51,-52,-51S,-52S
10	1	AK30 3" O.D. x 5/8 Bore Motor Sheave	8773	-21,-22,-41,-42
		AK34 3.45 O.D. x .625 Bore Sheave	37919	-51,-52
11	1	AX60 V-Belt	48541	All
12	1	1" x 11.97" Fan Shaft	52083	-21,-22,-41,-42,-51,-52
		1" x 11.97 SS Fan Shaft	54438	-21S,-22S,-41S,-42S,-51S,-52S
13	1	Tensioner Support	49737	All
14	1	Tensioner Assembly 3.5" Arm 3" Dia.	48429	All

Item	Qty.	Description	Part No.	Models
15	1	57" Galv. High Cap. Fan Blade	53219	-21,-41,-51
		57" Galv. E. Efficiency Fan Blade	53532	-22,-42,-52
		57" High Capacity SS Fan Blade	54529	-21S,-41S,-51S
		57" E. Efficiency SS Fan Blade	54530	-22S,-42S,-52S
16	2	1/4" Sq. 1.13" Key	2419-2	All
17	4	Cone Bracket	53039	All
***25	10	Extension Panel Screen Clip	54466	All
26	1	Extension Box Screen	54464	All
31	42	5/16-18 x 1 SS Shoulder Bolt	54287	All
32	57	5/16-18 Hx. Serr. SS Flange Nut	46764	All
33	4	3/8-16 x 1.50 SS HH Bolt	4413-10	All
34	4	3/8-16 SS Serrated Flange Nut	50191	All
35	1	3/8-16 x .75 SS Hx. Bolt	ST99277	All
36	1	3/8 SS Lock Washer	ST99780	All
40	12	1/4-10 x 1-1/2 Lag Screw SS	41561	All
***41	4	Extension Panel Flange Support	54549	All
42	1	Fan Decal	39002-X	All
*46	4	.125 x .50 Magnet	48427	All
*47	8	Magnet Side Plate	53026	All
*48	1	57" Fan Cross Rod	53398	All
*49	2	57" Fan Cross Rod Coupler (Rivet)	56339	All
*50	2	1/8 x .40 Countersunk SS Pop Rivet	48936	All
*51	1	57" Center V-Post	53626	All
*55	2	Fan Danger Decal	2527-90	All
***56	1	Housing Extension Top Panel	54467	All
***57	1	Housing Extension Bottom Panel	54468	All
***58	1	Housing Ext. (RH) Side Panel	54469-2	All
***59	1	Housing Ext. (LH) Side Panel	54469-1	All
***60	20	1/4-20 Hex Serrated Flange Nut	46298	All
***61	12	1/4-20 x 1/2 SS HXWH Screw	54683	All
***62	20	1/4-20 x 7/8 SS Bolt	4404-17	All
***63	1	Nylon Cord Clip	565	All
64	1	3/16 x 1-3/8 Key (w/motor)	--	All
65	-	Idler Pulley (Repair)	50879	All

* Fan Shroud Assembly (Item 6) Includes items 46,47,48,49,50,51, and 55
 ***Included in Box Extension Kit (54470)

Part Numbers Itemized (Continued)



Part Numbers (Continued)

57" Belt Drive Endura® Fan Part Numbers 54659-XX, or 54659-XX,XXS				
Item	Qty.	Description	Part No.	Models
18	1	Orifice Frame	53416	All
19	6	Orifice Frame Bracket	53611	All
20	4	57" Cone Panel	53163	All
21	1	Top Pivot Plate	53037	All
22	1	Bottom Pivot Plate	53036	All
23	2	Ø1/2" x 11" Door Spring	49629	All
24	1	3/32" SS Fan Cone Cable	53399	All
27**	1	Left 57" Door Assembly	52926L	All
28**	1	Right 57" Door Assembly	52926R	All
29	4	1/4 x 1-3/4 420 SS Spring Pin	53038	All
30	1	70" Cone Grill	53129	All
31	42	5/16-18 x 1 SS Shoulder Bolt	54287	All
32	57	5/16-18 Hx. Serrated Flange Nut	46764	All
37	2	3/8 SS Flat Washer	ST99070	All
39	1	5/16-18 x 2 SS Eye Bolt	30663	All
**52	4	Striker Plate	53027	All
53	2	Cable Clamp	732	All
54	1/3	Anti-Seize (Not Shown)	47749	All
**Doors Include 53027 Striker Plates (Item 52)				



**Made to work.
Built to last.®**

Revisions to this Manual

Page No.	Description of Change	ECO
Various 2-3	Changed 2527-50 to 2527-90 Updated Safety information	36121

**For additional parts and information, contact your nearest Chore-Time distributor or representative.
Find your nearest distributor at: www.choretime.com/contacts**

CTB, Inc.
PO Box 2000
Milford, Indiana 46542-2000 USA
Phone (574) 658-4101 Fax (877) 730-8825
Email: choretime@choretime.com