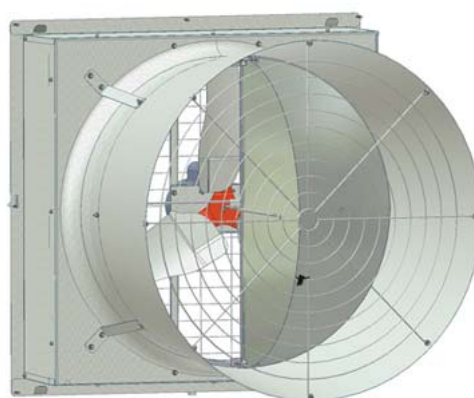
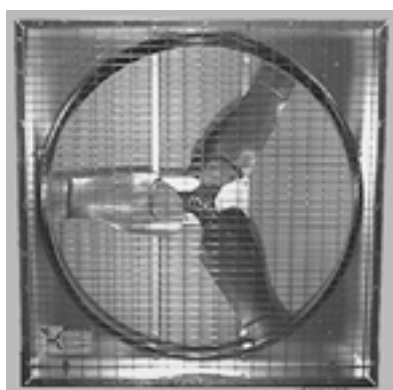


36" (50485) & 48" (50454) Hyflo® Retrofit Kit Installation & Operator's Instruction Manual



Safety

DANGER: Electrical Hazard

Disconnect electrical power before inspecting or servicing equipment unless maintenance instructions specifically state otherwise. Ground all electrical equipment for safety. All electrical wiring must be done by a qualified electrician in accordance with local and national electric codes. Ground all non-current carrying metal parts to guard against electrical shock. With the exception of motor overload protection, electrical disconnects and over current protection are not supplied with the equipment.



DANGER: Rotating Fan Blade

Keep Hands away. Disconnect power before servicing. Fan may start automatically. Do not operate the Fan without the screens in place.

Disregard to the above mentioned **Danger** may cause serious injury including death.

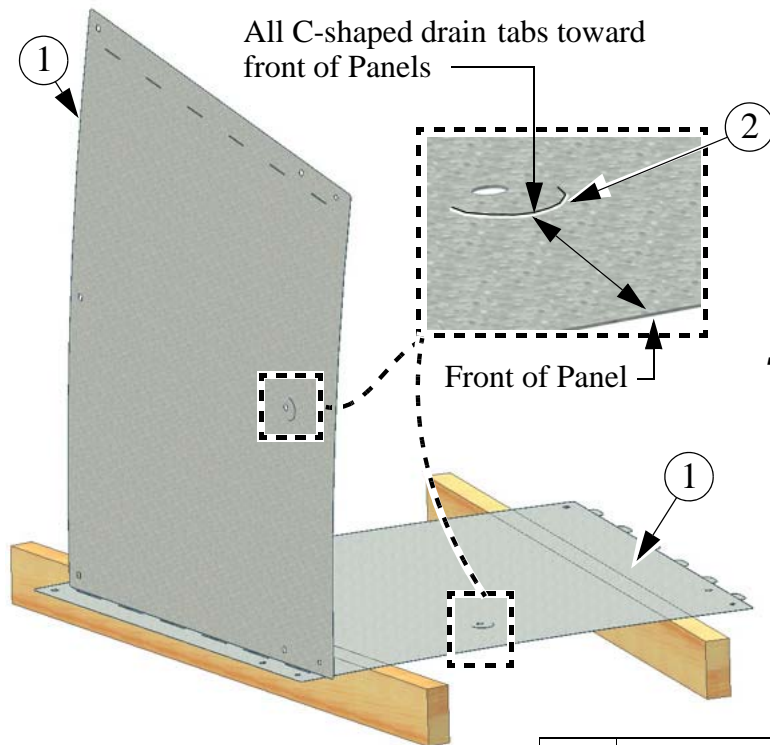
- Keep all Safety Signs and decals in good condition.
- Replace damaged or missing decals.



Installing the new Door Assembly and Cone

Cone Assembly and Installation

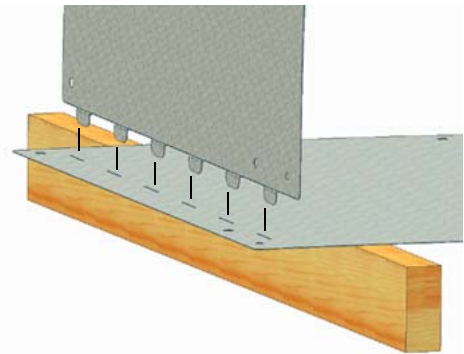
Begin assembling the Cone by laying a Cone Panel (**Item 1, Figure 3**) on a couple of boards with the **c-shaped drain tab (Item 2)** towards the front **as shown**. With the c-shaped drain tab toward the front (**See Figure**), insert the tabs of each Cone Panel into the Slots of the next and lay them down locking them in place.



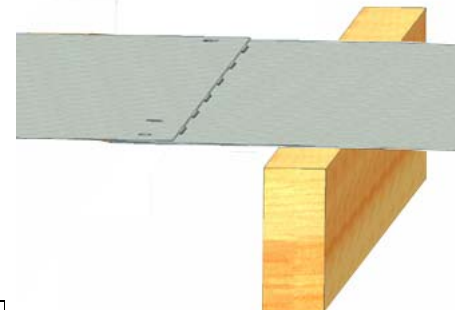
Step 1: Prop a Cone Panel up on boards

Item	Description
1	Cone Panel
2	C-Shaped Drain Tab

Figure 3. Assembling Cone Panels



Step 2: Insert Tabs of each Cone Panel into the Slots of the next.



Step 3: Lay the Panels down, locking them in place.

When all four Cone Panels are connected, stand the panels up on edge and curl the Cone around with the smaller diameter of the Cone up as **shown below**. Assemble the final Panels together and allow the Cone to take its shape. If the Cone is assembled correctly the Tabs should all be on the Inside of the finished Cone. Fasten the Cone Panels together with (4) 5/16 x 1/2" Hex Bolts Threaded in from the inside of the finished Cone **as shown in Figure 4**. Do not tighten down the Nuts at this time. Leave the Nuts loose until the Cone is attached to the Fan.

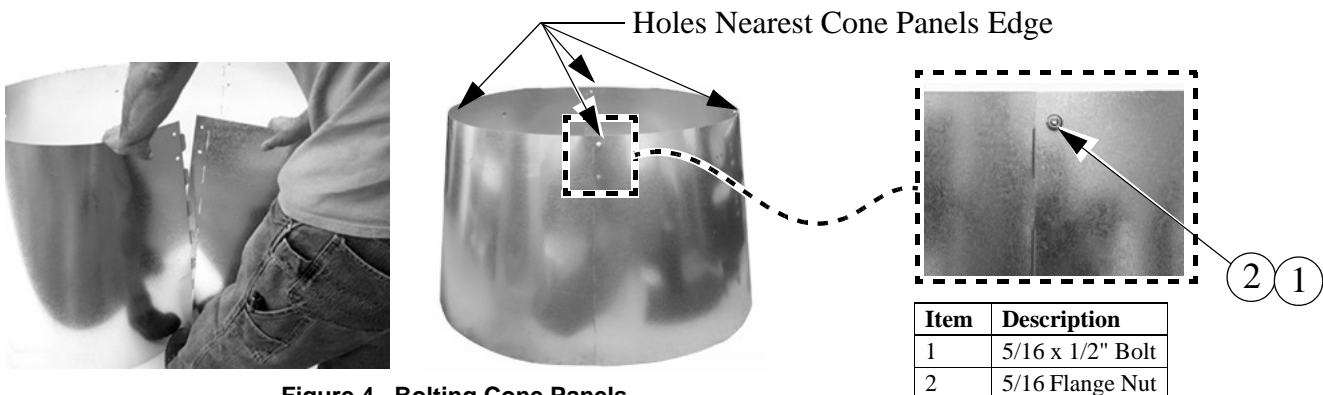


Figure 4. Bolting Cone Panels

Item	Description
1	5/16 x 1/2" Bolt
2	5/16 Flange Nut

Orient the Door Assembly such that the bottom is lined up with one of the C-Shaped Drain Tab in the Cone Assembly. The bottom of the Door Assembly can be identified by a drain hole in the Ring (See **Figure 5**). Line up the Four Holes in the Door Ring with the holes in the Cone and thread (4) 5/16 x 1.25" Bolts (**Item 1**) in until they are tight. Do not install Nuts at this time. These Bolts will be used later to attach the Cone Brackets to the Cone Assembly.

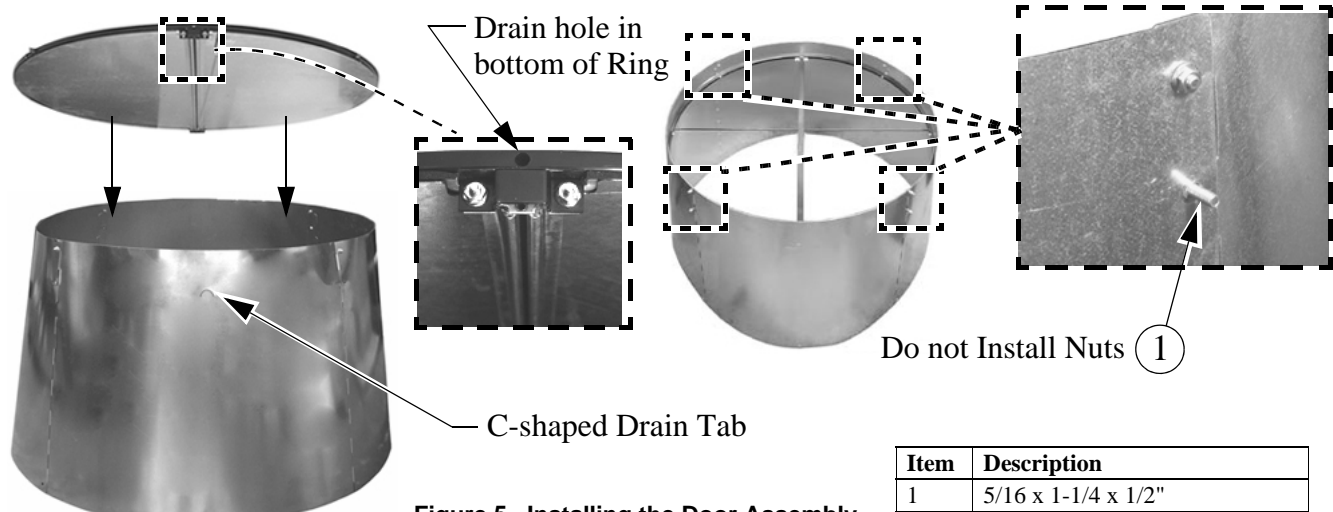
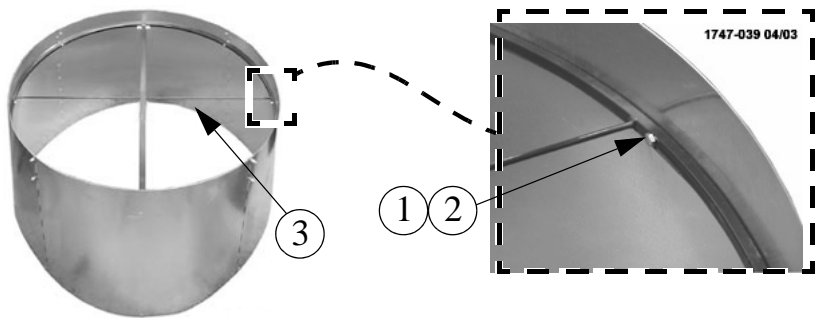


Figure 5. Installing the Door Assembly

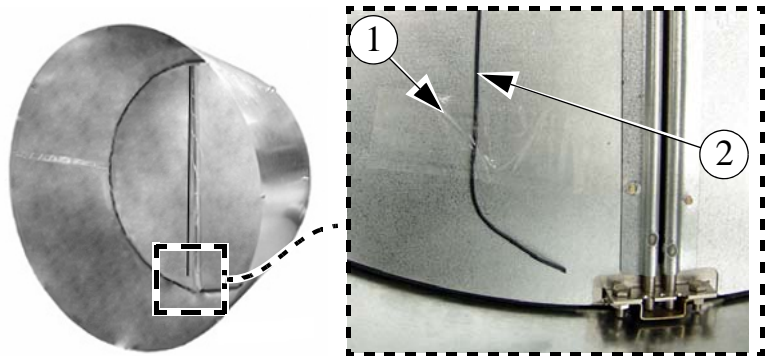
Use (2) 5/16 x 1.25" Bolts (**Item 1, Figure 6**) and 5/16 Flange Nuts (**Item 2**) to attach the Ring to the Cone using the Holes located on both sides near the Door Center Brace as **shown below**. *Note that the Nuts go on the outside of the Cone.*



Item	Description
1	5/16 x 1-1/4 x 1/2" Bolt
2	5/16 Flange Nut
3	Door Center Brace

Figure 6. Attaching the Ring to the Cone

Turn the Cone over and remove the tape (**Item 1, Figure 7**) from the Door Stop Cable (**Item 2**).

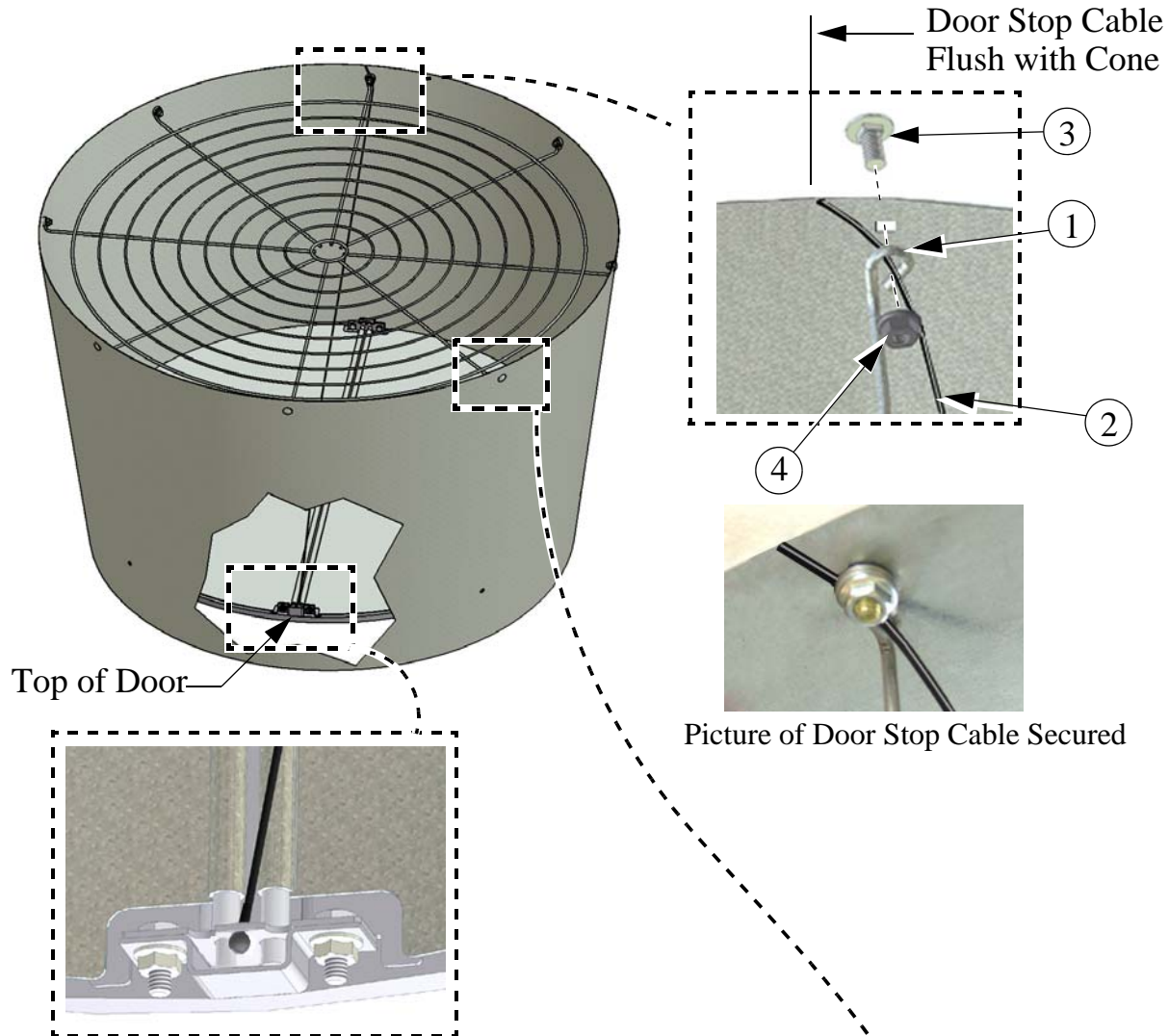


Item	Description
1	Tape
2	Door Stop Cable

Figure 7. Remove tape from Door Stop Cable

Attaching the Door Stop Cable to Grill, and the Grill to the Cone

Step 1: Line up the Grill Eyehooks with the holes in the Cone. Thread the free end of the Door Stop Cable (Nylon Cable) (Item 2) through the bottom Grill Eyehook (Item 1) until it is flush with the Cone and secure it with a 5/16-18 Carriage Bolt (Item 3) and Flange Nut (Item 4) as shown.



Step 2: Use 5/16 Carriage Bolts (Item 3) and Nuts (Item 4) to fasten Grill to Cone at remaining 7 locations.

Item	Description
1	Bottom Grill Eyehook
2	Door Stop Cable (Nylon Cable)
3	5/16-18 x .625 Carriage Bolt
4	5/16-18 Flange Nut

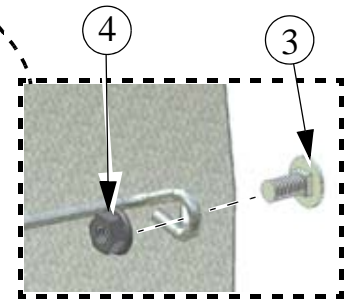


Figure 8. Attaching Fan Cable and Grill

Attaching the Cone

Attaching Cone Brackets to Shroud

Use 5/16 x 1/2" Carriage Bolts (Item 1, Figure 9) and 5/16 Flange Nuts (Item 2) to attach the four Cone Brackets (Item 3) to the Fan Shroud as shown below.

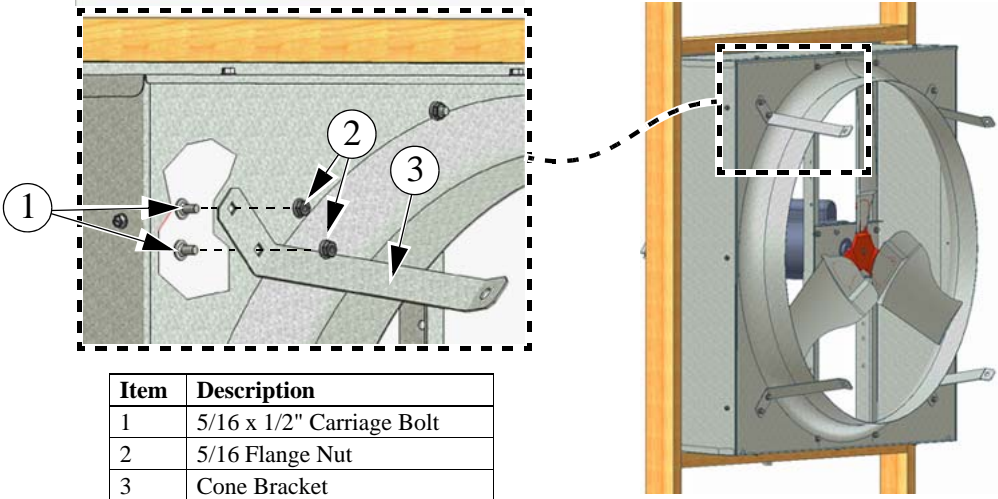
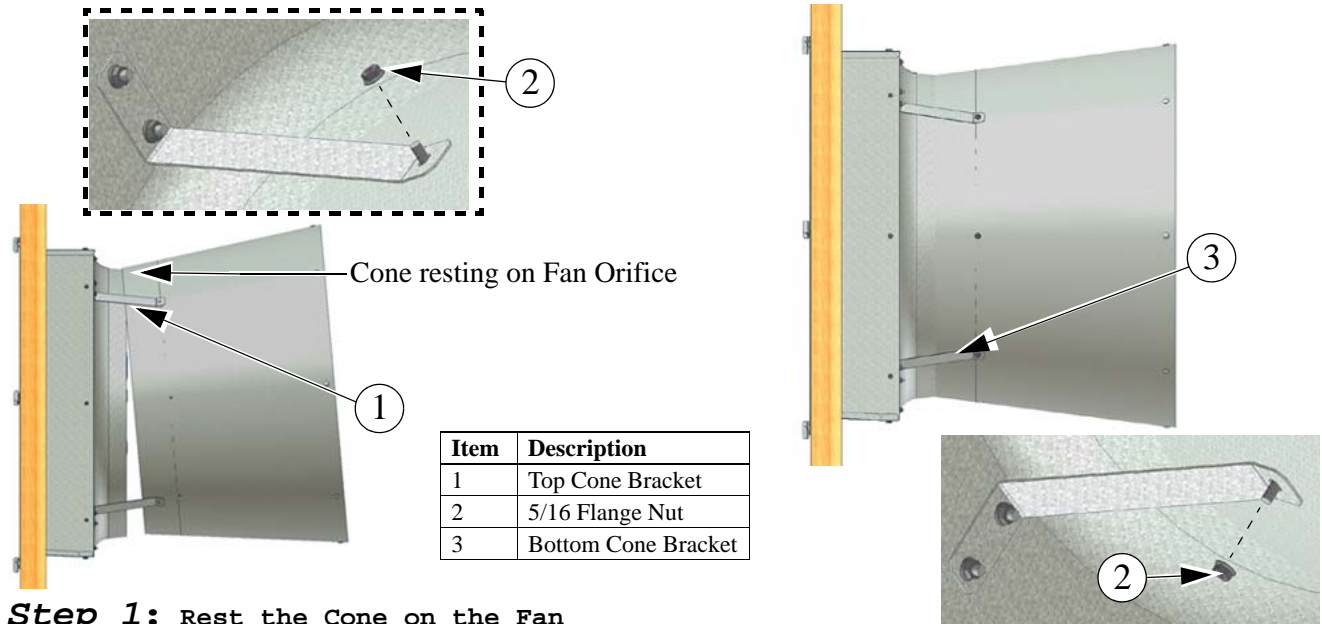


Figure 9. Attaching Cone Brackets to Shroud

Attaching Cone to Cone Brackets

Mounting the Cone and Door Assembly to the Fan requires at least two people. Pick up and orient the Cone with the Fan Cable attached at the top (see Figure 8 on previous page) and rest the Cone on top of the Fan Orifice as shown. Attach the top of the Cone to the two top Cone Brackets (Item 1, Figure 10) with the Bolts that were previously threaded through the Ring and Cone, and secure with 5/16 Flange Nuts (Item 2). Only hand tighten the Nuts at this time. Working around the Fan Orifice from inside the fan, in a circular motion, slide the Cone over the Fan Orifice. The Cone will Fit snug. Use the Bolts previously threaded through the Ring and Cone and hand tighten the 5/16 Flange Nuts to secure the bottom of the Cone to the two Bottom Cone Brackets (Item 3).



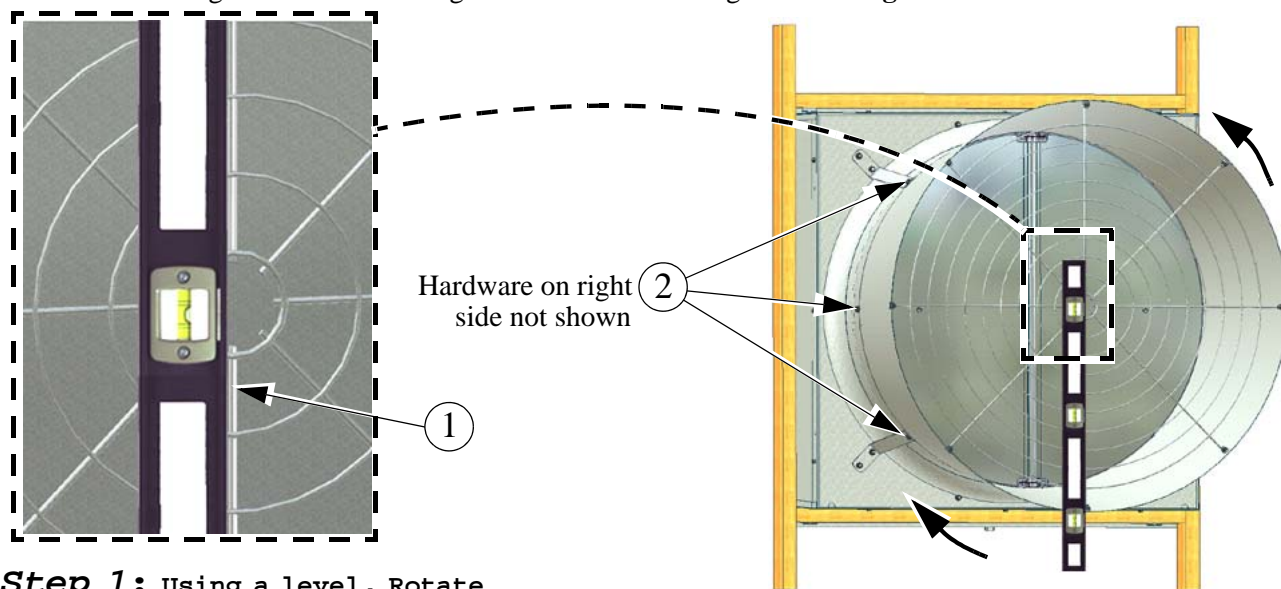
Step 1: Rest the Cone on the Fan orifice and attach it to the Top two Cone Brackets (Hand tighten only).

Step 2: Slide Cone over Fan orifice and fasten bottom Cone Brackets (Hand tighten only).

Figure 10. Attaching Cone to Cone Brackets

Leveling Doors and tightening down Cone Hardware

Use a Level and rotate the Cone and Door Assembly until the Center Screen Wire (**Item 1, Figure 11**) is Vertical (**See Figure**). Once the Cone and Door Assembly is vertical, tighten the four 5/16 Flange Nuts (**Item 2**) holding the Cone to the Cone Brackets and also the four 5/16 Flange Nuts holding the Cone Panels together that were hand tightened in **Figure 4**.



Step 1: Using a level, Rotate the Cone and Door Assembly until the Center Grill Wire is vertical

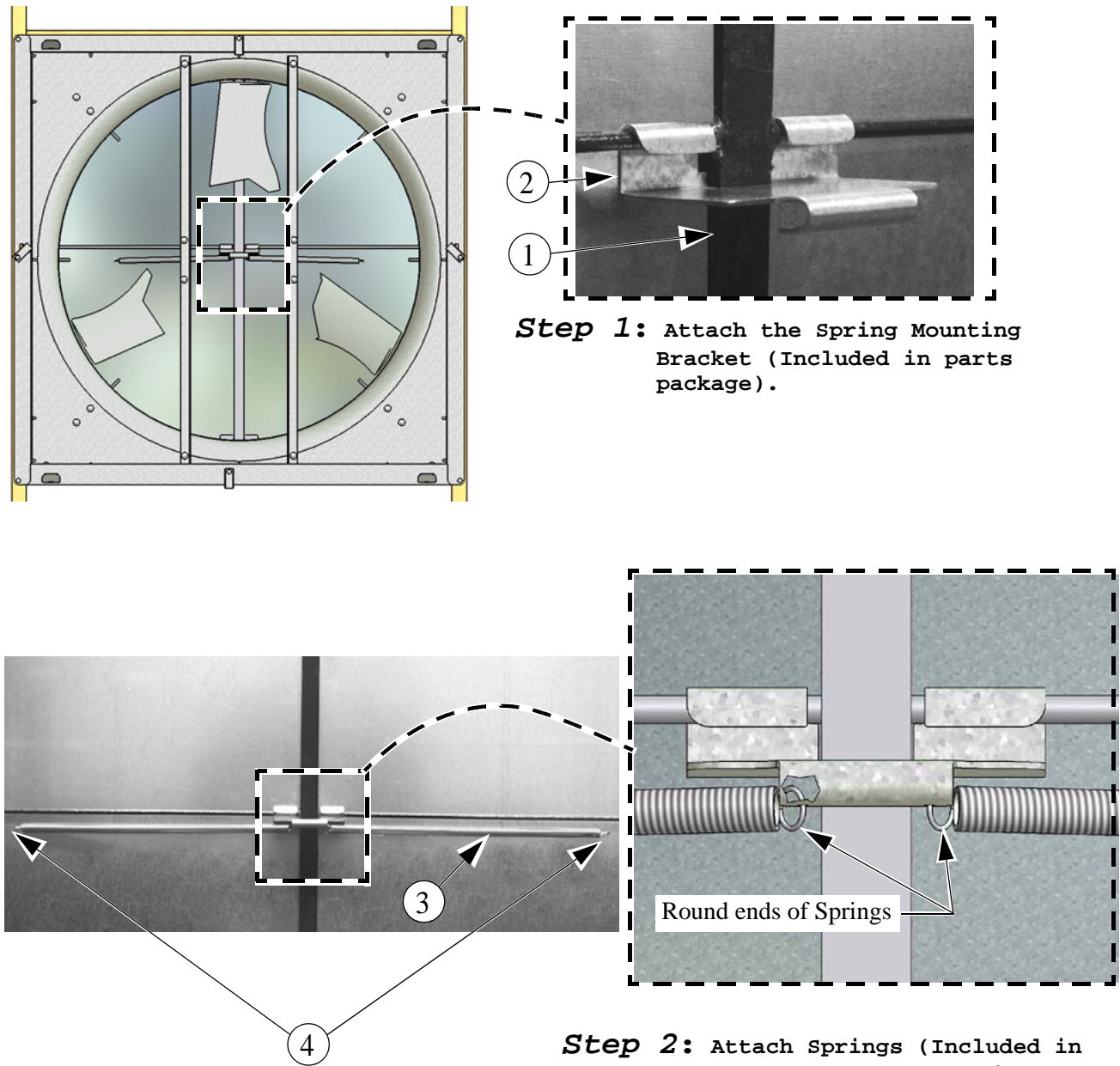
Step 2: Tighten down four 5/16 Flange Nuts holding the Cone to the Cone Brackets and the ones holding the Cone Panels together. (Hardware on right side of Fan not shown)

Item	Description
1	Center Grill Wire
2	5/16 Flange Nut

Figure 11. Leveling Doors and tightening down Cone Hardware

Door Spring Installation

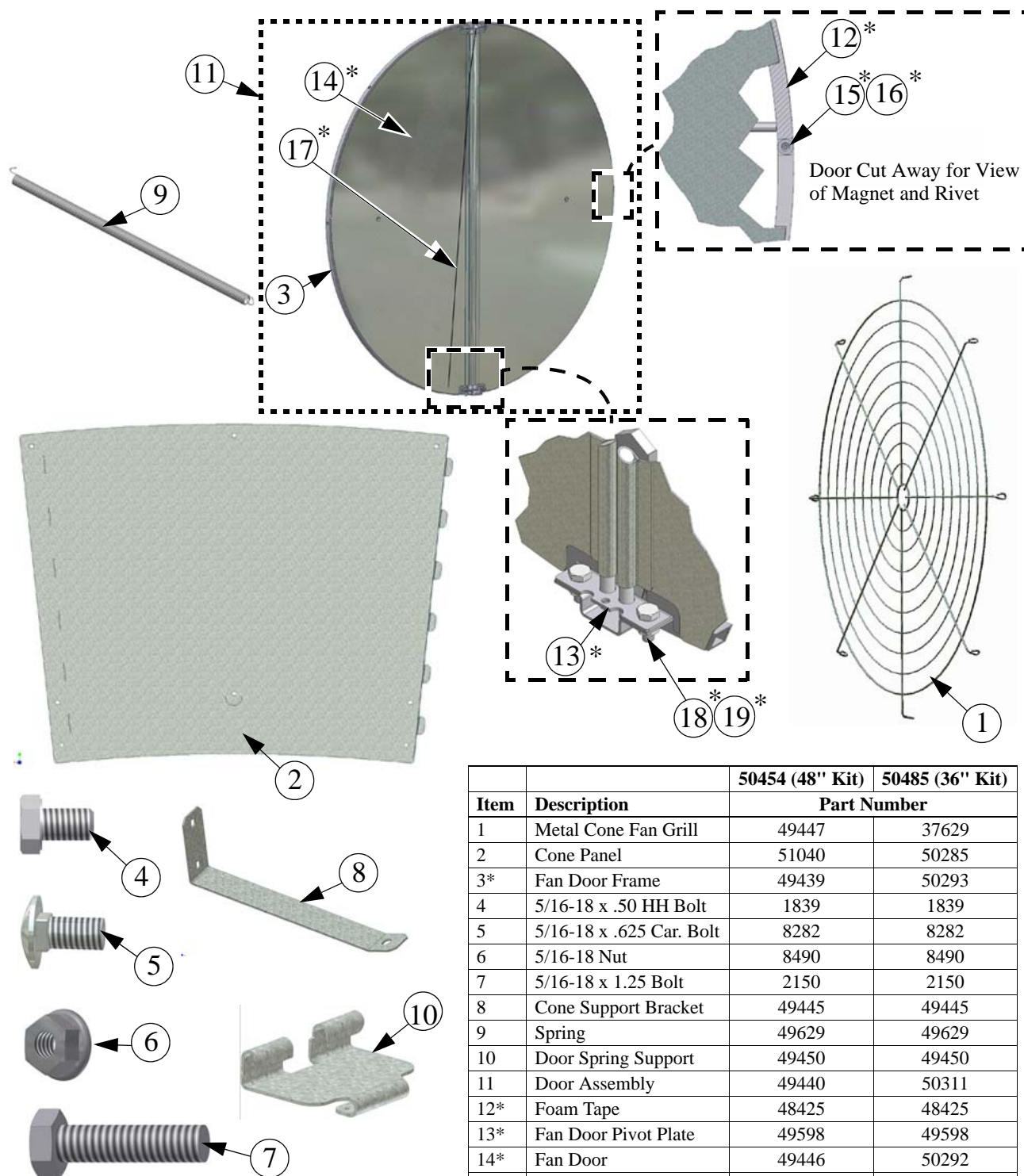
At the middle of the Door Center Brace (**Item 1, Figure 12**), attach the Spring Mounting Bracket (**Item 2, Included in the Parts Package**) as shown in **Step 1** below. Hook the rounded ends of the Door Springs (**Item 3**) onto the Spring Mounting Bracket. Stretch the Door Springs out and hook them on the 3/32" holes (**Item 4**) in the Doors (**See Step 2**).



Item	Description
1	Door Center Brace
2	Spring Mounting Bracket
3	Door Spring
4	3/32" Hole in Door

Figure 12. Attaching the Spring Mounting Bracket

Kit Parts



		50454 (48" Kit)	50485 (36" Kit)
Item	Description	Part Number	
1	Metal Cone Fan Grill	49447	37629
2	Cone Panel	51040	50285
3*	Fan Door Frame	49439	50293
4	5/16-18 x .50 HH Bolt	1839	1839
5	5/16-18 x .625 Car. Bolt	8282	8282
6	5/16-18 Nut	8490	8490
7	5/16-18 x 1.25 Bolt	2150	2150
8	Cone Support Bracket	49445	49445
9	Spring	49629	49629
10	Door Spring Support	49450	49450
11	Door Assembly	49440	50311
12*	Foam Tape	48425	48425
13*	Fan Door Pivot Plate	49598	49598
14*	Fan Door	49446	50292
15*	.125 x .50 Magnet	48427	48427
16*	1/8 x .40 Pop Rivet	48936	48936
17*	Cable Assembly	50618-2	50618-3
18*	1/4-20 x .63 Bolt	2152	2152
19*	1/4-20 Ser. Flng. Nut	46460	46460
*Included in Door Assembly			

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Revisions to this Manual

Page No.	Description of Change
Various	Added 48" Kit

Contact your nearby Chore-Time distributor or representative for additional parts and information.

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