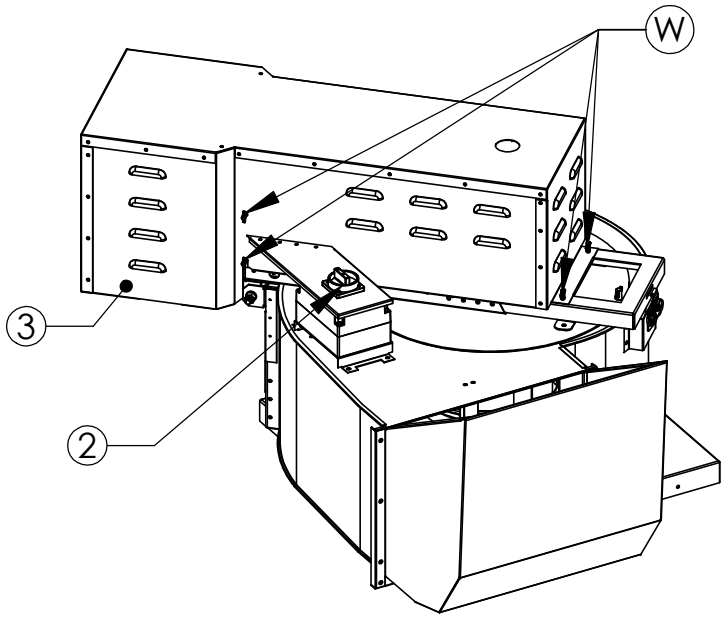
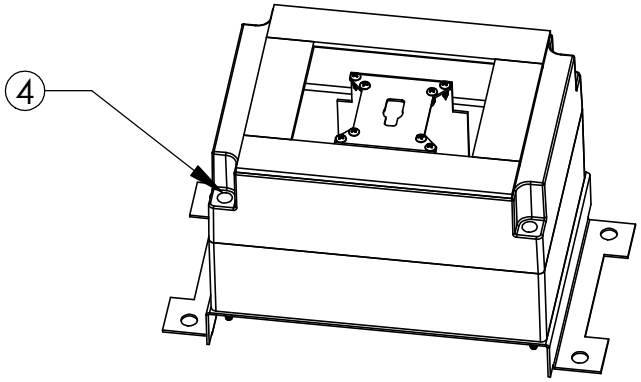
CASRE Disconnect Arm Retro Instructions 2/23/2016

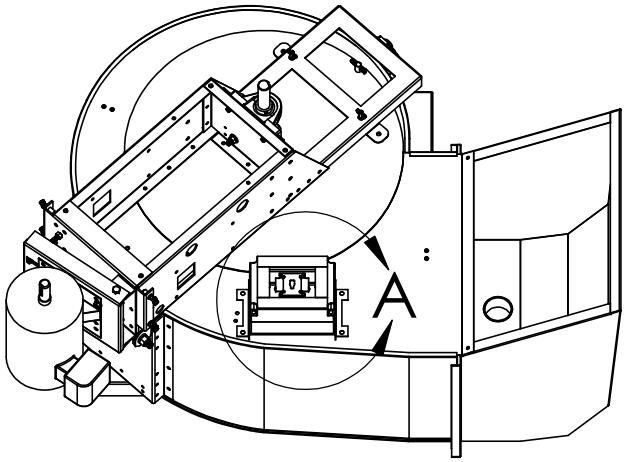
Existing Part Removal

Instructions

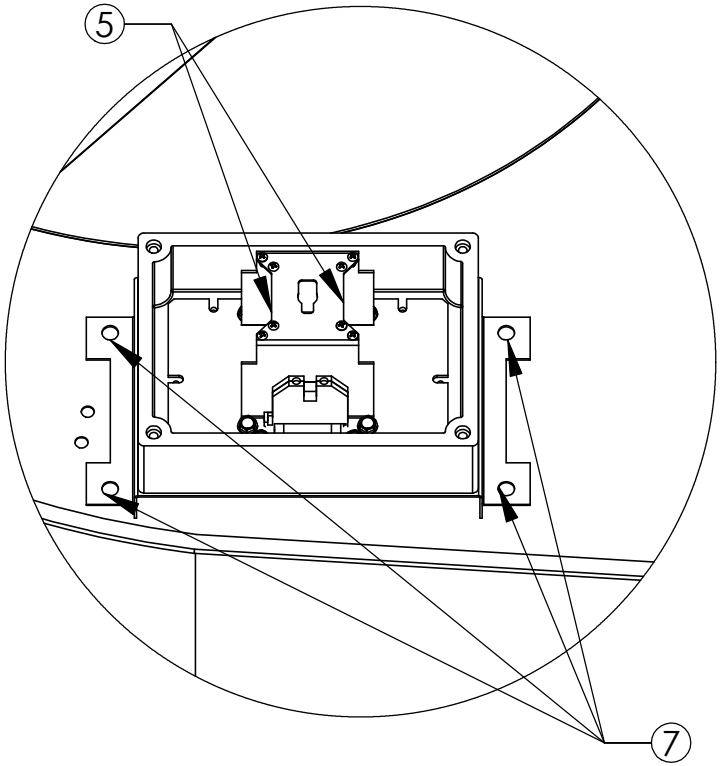
1. Turn off incoming power to fan disconnect.
2. Turn off fan disconnect switch and flip up disconnect arm.
3. Remove Motor cover by removing (6) wing bolts at locations (W) .
4. Loosen (4) screws and remove disconnect cover.
5. Unhook wiring from both sides of the disconnect switch
6. Remove wiring from disconnect box.
7. Drill out (4) rivets connecting the disconnect box to the fan scroll. Remove disconnect assembly.
8. Clean off any old silicone on scroll surface.



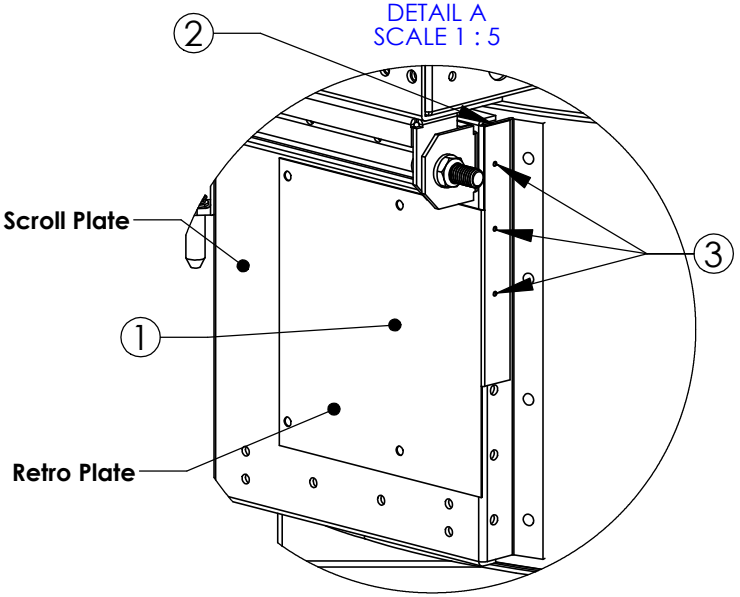


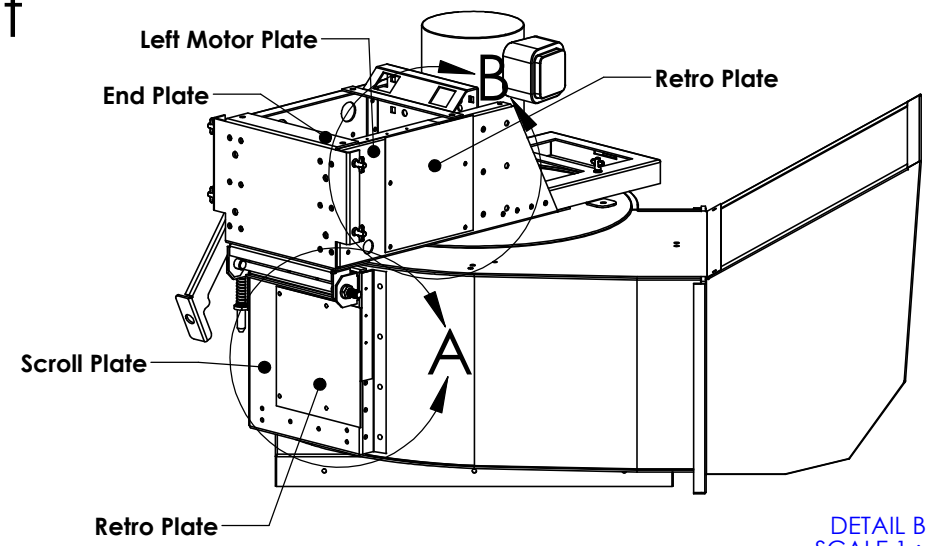


DETAIL A
SCALE 1 : 4

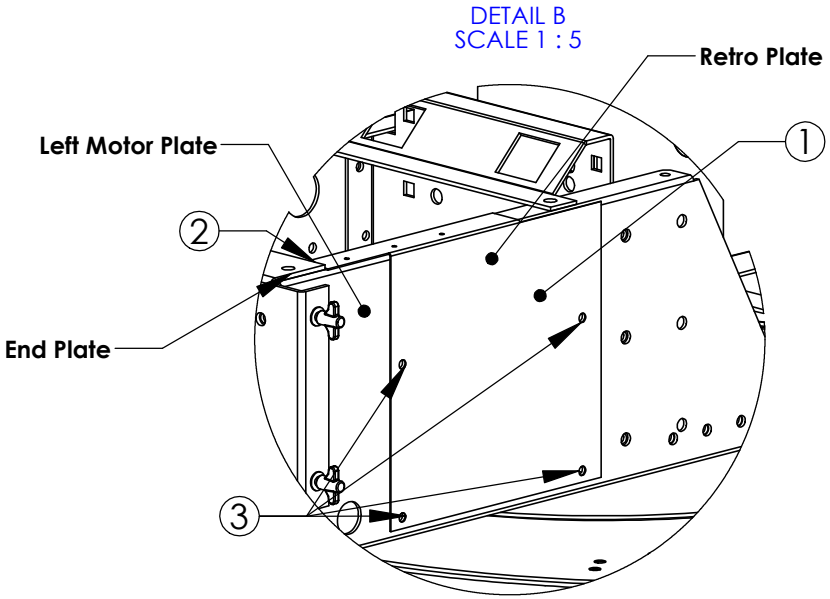


Retro Plate Hole Alignment

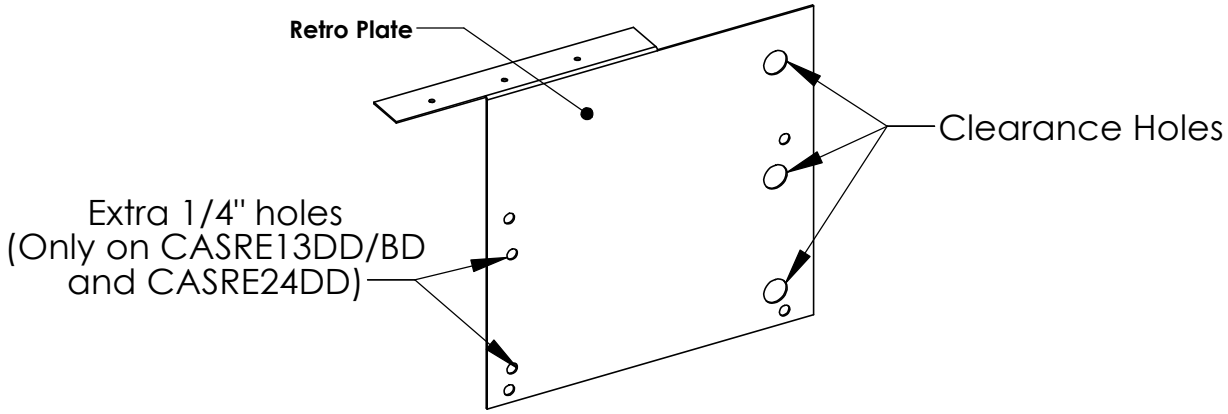




Detail A:
1. Place Retro Plate onto the scroll plate as shown above.
2. Align the flange on the Retro Plate with the top edge of the scroll plate.
3. Mark and drill out (3) 1/8" holes.



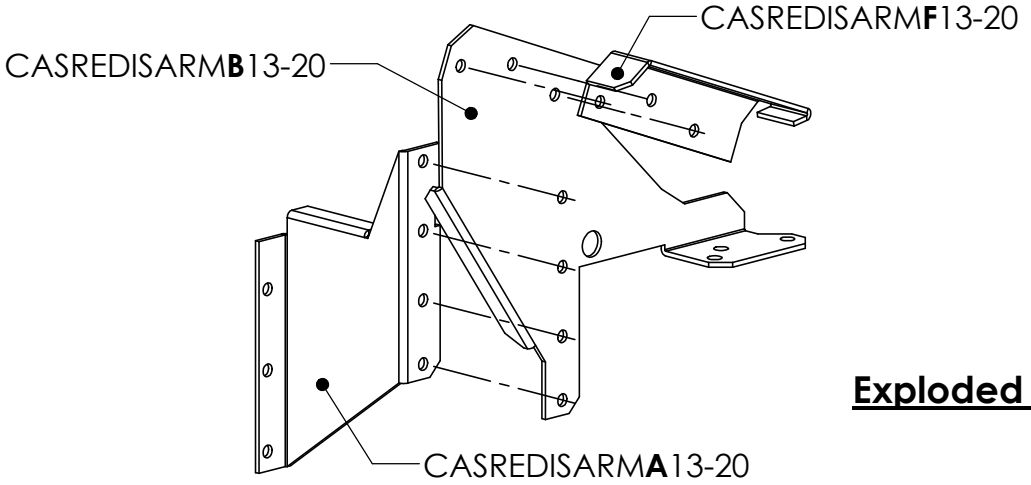
Detail B:
1. Place Retro Plate onto the left motor plate as shown above.
2. Butt the edge of the flange on the Retro Plate up to edge of the end plate at location 2.
3. Mark and drill out the (4) 1/4" holes. On the CASRE24DD, the bottom right hole lines up with a rivet for the motor support plate. This rivet needs to be drilled out.



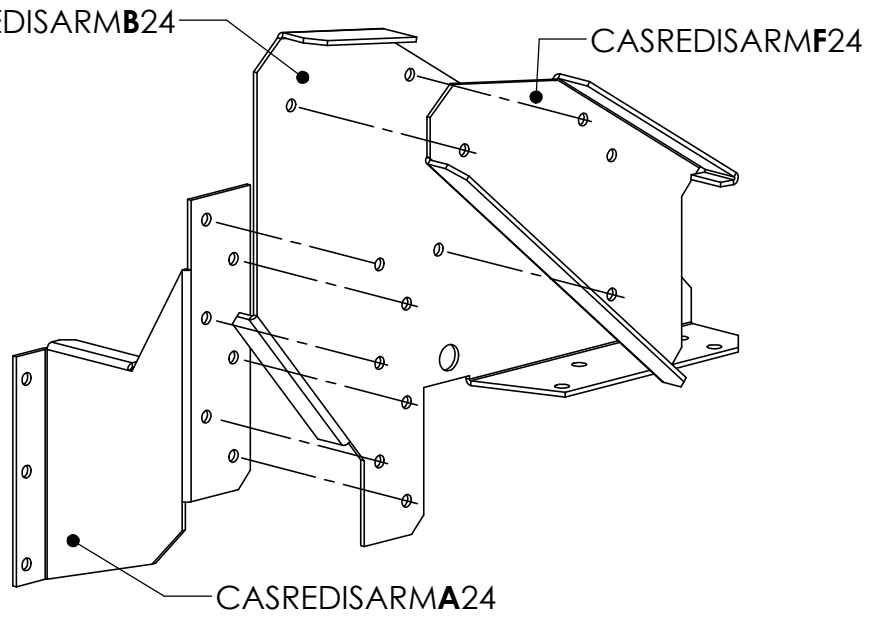
NOTE: On the CASRE13DD/BD and CASRE24DD, the disconnect sits over top two rivets. The Retro plate has .560" holes to clear the rivet heads. On these fan retro plates, there are two extra 1/4" holes on the left side. These holes need to be drilled out on the motor side plate and filled with 1/4"-20 X 3/4" Pan Head bolts (P/N: 800026)and whiz nuts (P/N: 800034). The bolt should be installed with the head facing outward. This added hardware is meant to keep the disconnect level against the left motor plate.

Disconnect Arm Assembly

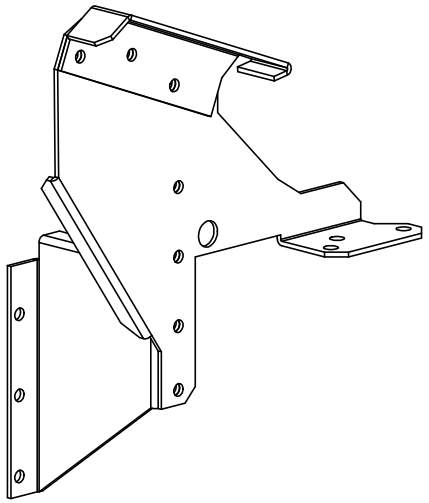
Attach disconnect arm parts **A**, **B**, and **F** using SSPI rivets as shown in the exploded views above.



Exploded Views

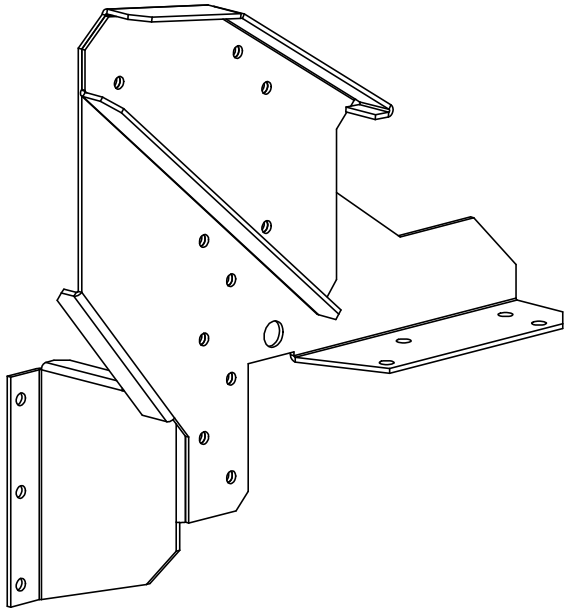


CASREDISARM13-20

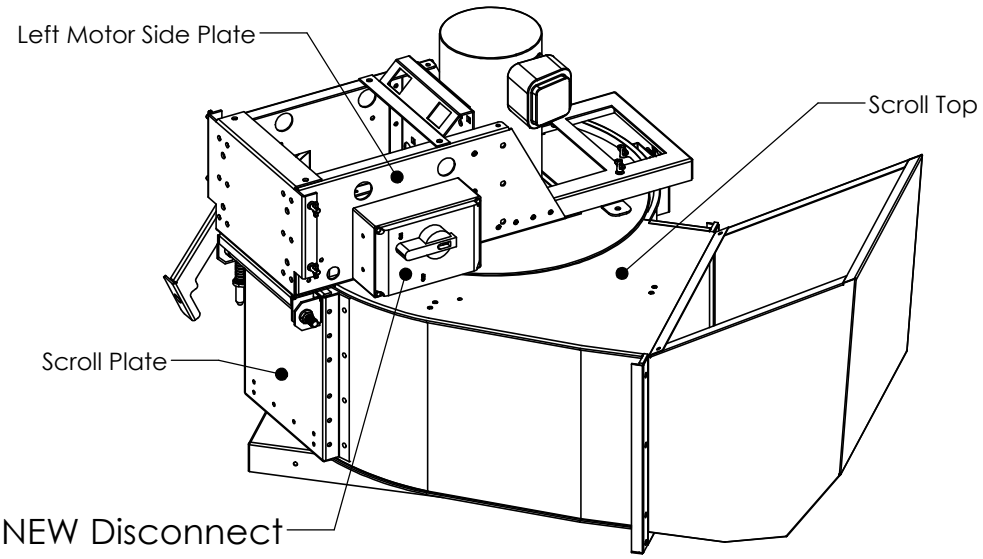


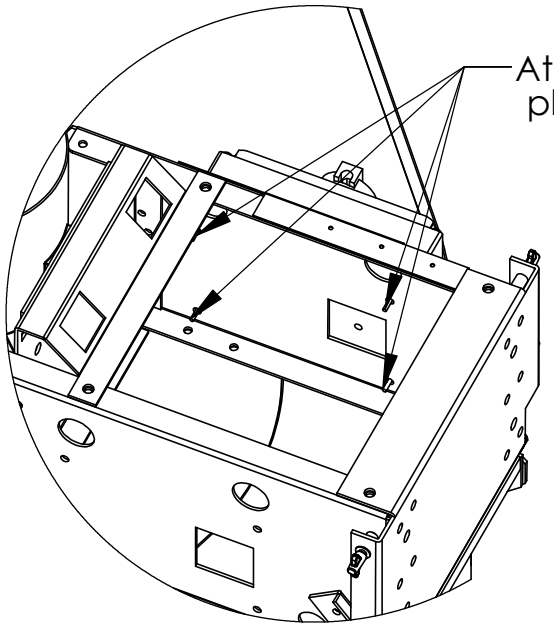
Assembled Configurations

CASREDISARM24

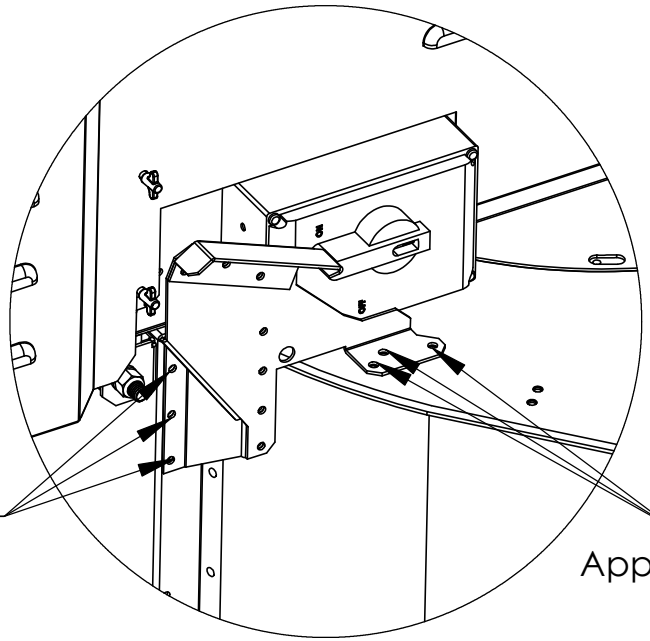


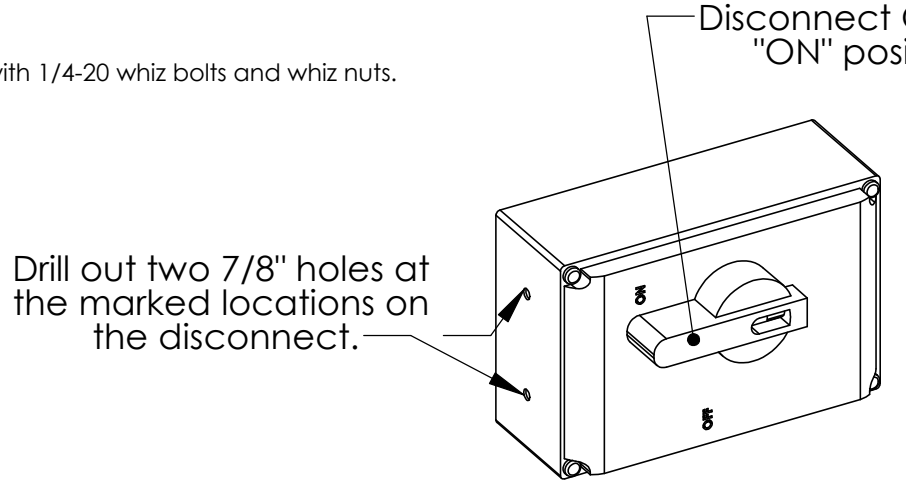
Disconnect Installation





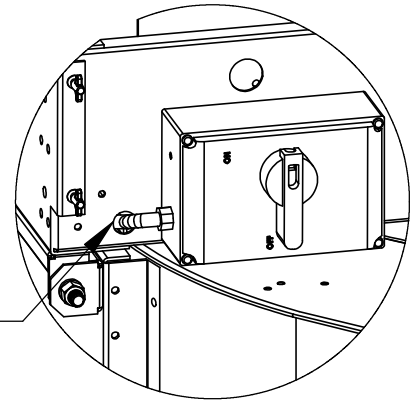
1. Drill two 7/8" holes out in the disconnect box at the location shown to the right. There are indents used to help center these holes.
2. Attach the disconnect to the left motor side plate using the (4) 1/4" holes and included 10-32 hardware.
3. Make sure that the "ON" label is oriented to the top left of the disconnect.
4. Align the disconnect arm assembly so that the holes of CASREDISARMA line up with the (3) holes on the scroll plate.
5. Mark the locations of the holes in CASREDISARMB onto the scroll top and drill out the holes. (Some holes may already be in the scroll).
6. Place silicone around the new holes on the scroll top surface.
7. Use (3) 1/4" sheet metal screws to attach CASREDISARMA to the scroll plate.
8. Using 1/4"-20 hardware, attach the CASREDISARMB to the Scroll Top.
9. Place silicone around any empty holes on the scroll surface and fill the holes with 1/4-20 whiz bolts and whiz nuts.

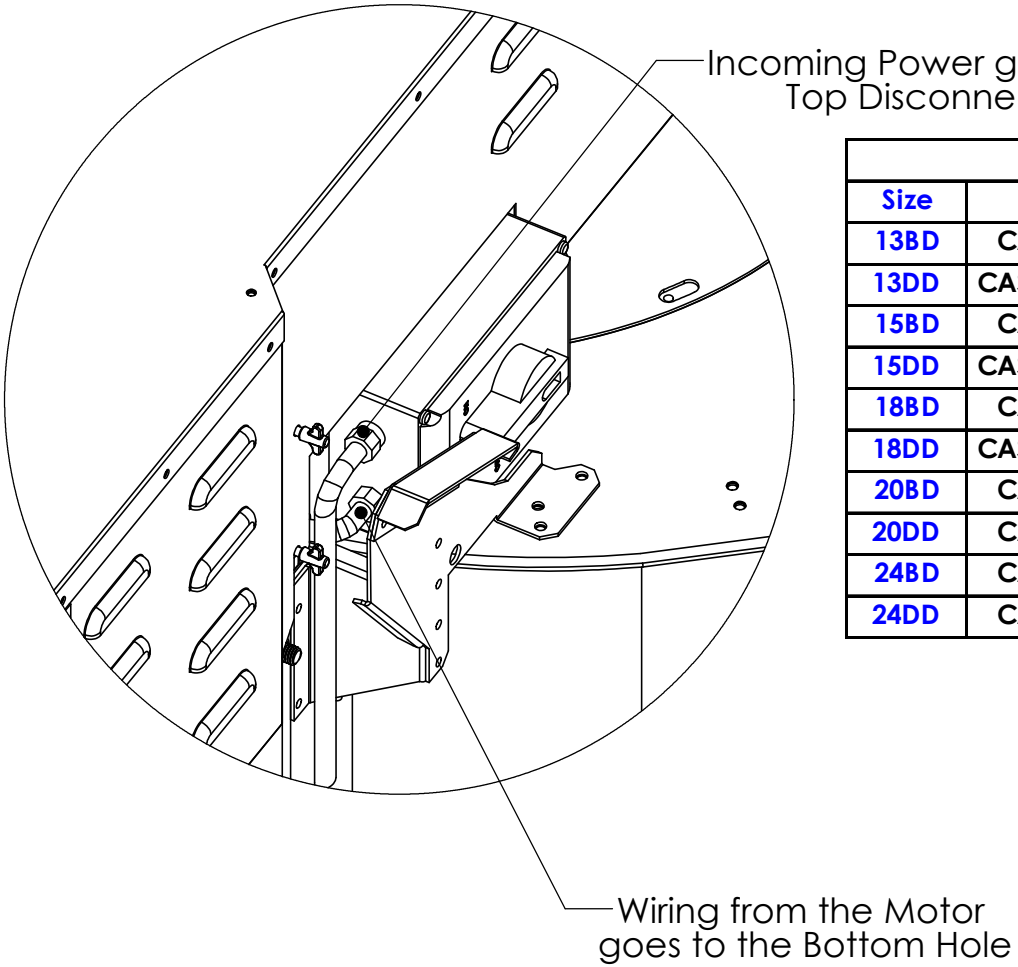




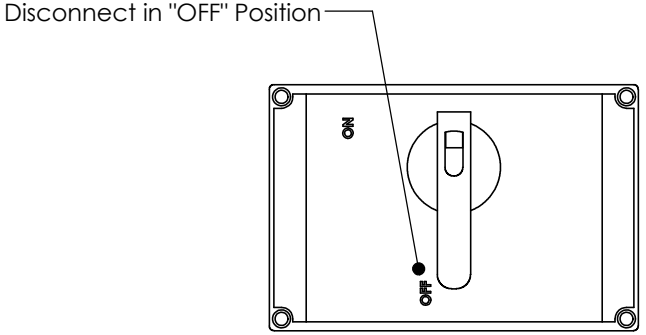
Disconnect Wiring Installation

1. Remove the cover to the disconnect box.
2. Run the wiring from the motor to the bottom hole of the disconnect box.
3. For direct drive motors, the wiring can go through the hole in the motor side plate using a 7/8" plastic snap bushing.
4. For belt drive, the wiring can go directly from the motor to the disconnect box bottom hole.
5. Connect the wires from the motor into the disconnect.
6. Run the incoming power wiring to the top hole in the disconnect box and connect the wiring to the disconnect.
7. Attach the disconnect cover back onto the box.
8. Install the new motor cover containing the cut-out for the disconnect. The motor cover assemblies are listed below.
9. Make sure that the disconnect is turned to the off position. When ready, turn on power to the fan.
10. With the powerpack latched down to the scroll, test the fan by turning on the disconnect.





Motor Cover Part #s				
Size	Left Cover	Right Cover	Top Cover	Assembly
13BD	CASRE13WMCSL	CASRE13WMCSR	CASRE13WMCT	CASRE13WMC-BD
13DD	CASRE13WMCSLDD	CASRE13WMCSRDD	CASRE13WMCTDD	CASRE13WMC-DD
15BD	CASRE15WMCSL	CASRE15WMCSR	CASRE15WMCT	CASRE15WMC-BD
15DD	CASRE15WMCSLDD	CASRE15WMCSRDD	CASRE15WMCTDD	CASRE15WMC-DD
18BD	CASRE18WMCSL	CASRE18WMCSR	CASRE18WMCT	CASRE18WMC-BD
18DD	CASRE18WMCSLDD	CASRE18WMCSRDD	CASRE18WMCTDD	CASRE18WMC-DD
20BD	CASRE20WMCSL	CASRE20WMCSR	CASRE20WMCT	CASRE20WMC-BD
20DD	CASRE20WMCSL	CASRE20WMCSR	CASRE20WMCT	CASRE20WMC-BD
24BD	CASRE24WMCSL	CASRE24WMCSR	CASRE24WMCT	CASRE24WMC-BD
24DD	CASRE24WMCSL	CASRE24WMCSR	CASRE24WMCT	CASRE24WMC-BD



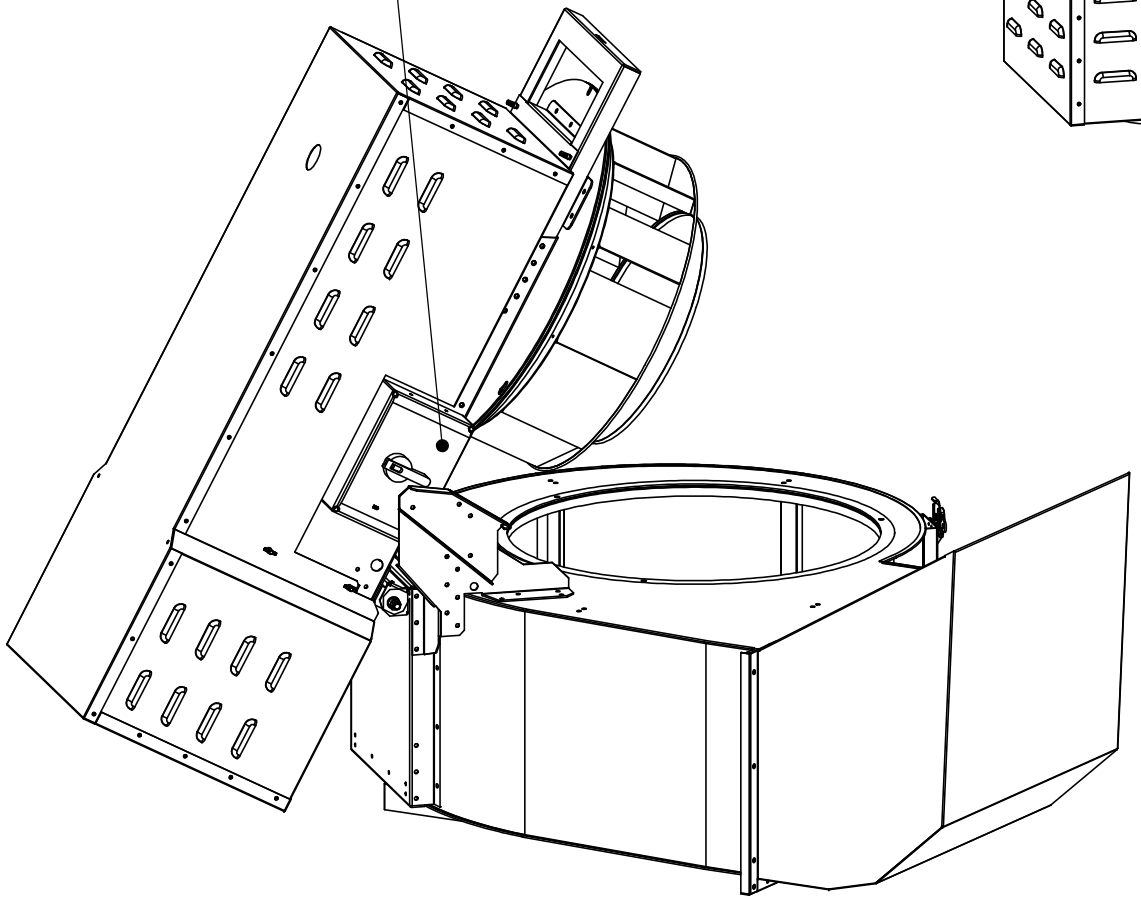
Disconnect Operation

Before opening the fan to reveal the wheel:
1. Turn off incoming power to the fan disconnect.
2. Turn the disconnect handle to the "OFF" position.
3. Wait for the wheel to come to a complete stop.

When the powerpack is tiltled open, the disconnect arm will turn the disconnect off if it is still on.
While the powerpack is tilted back, the disconnect arm prevents the disconnect from turning back on.

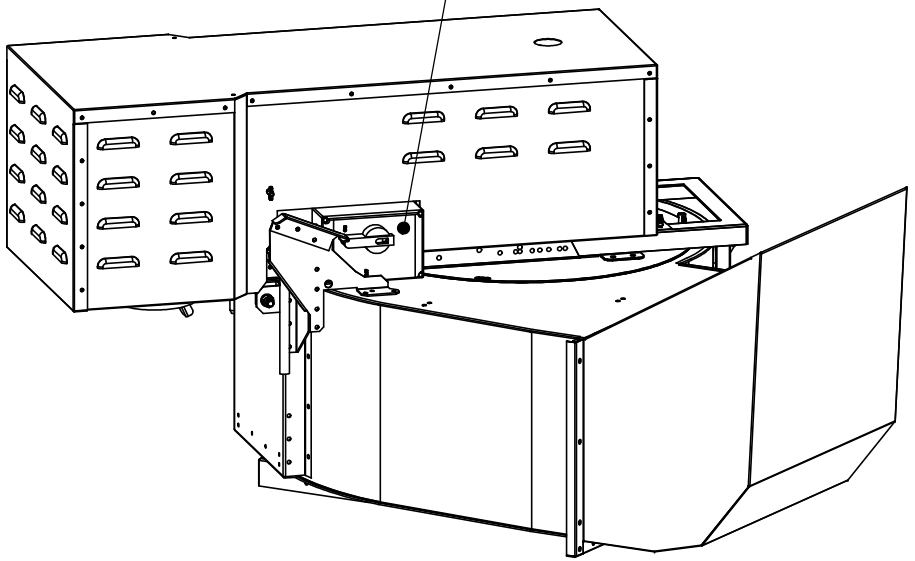
After Closing and Latching the powerpack:
1. Turn on the incoming power to the disconnect.
2. Turn the Disconnect to the "ON" position.

Disconnect is locked into the "OFF" position and cannot be turned on.



CASRE with power-pack in OPEN position.

Disconnect can be turned to "ON" or "OFF" position



CASRE with power-pack in CLOSED position.

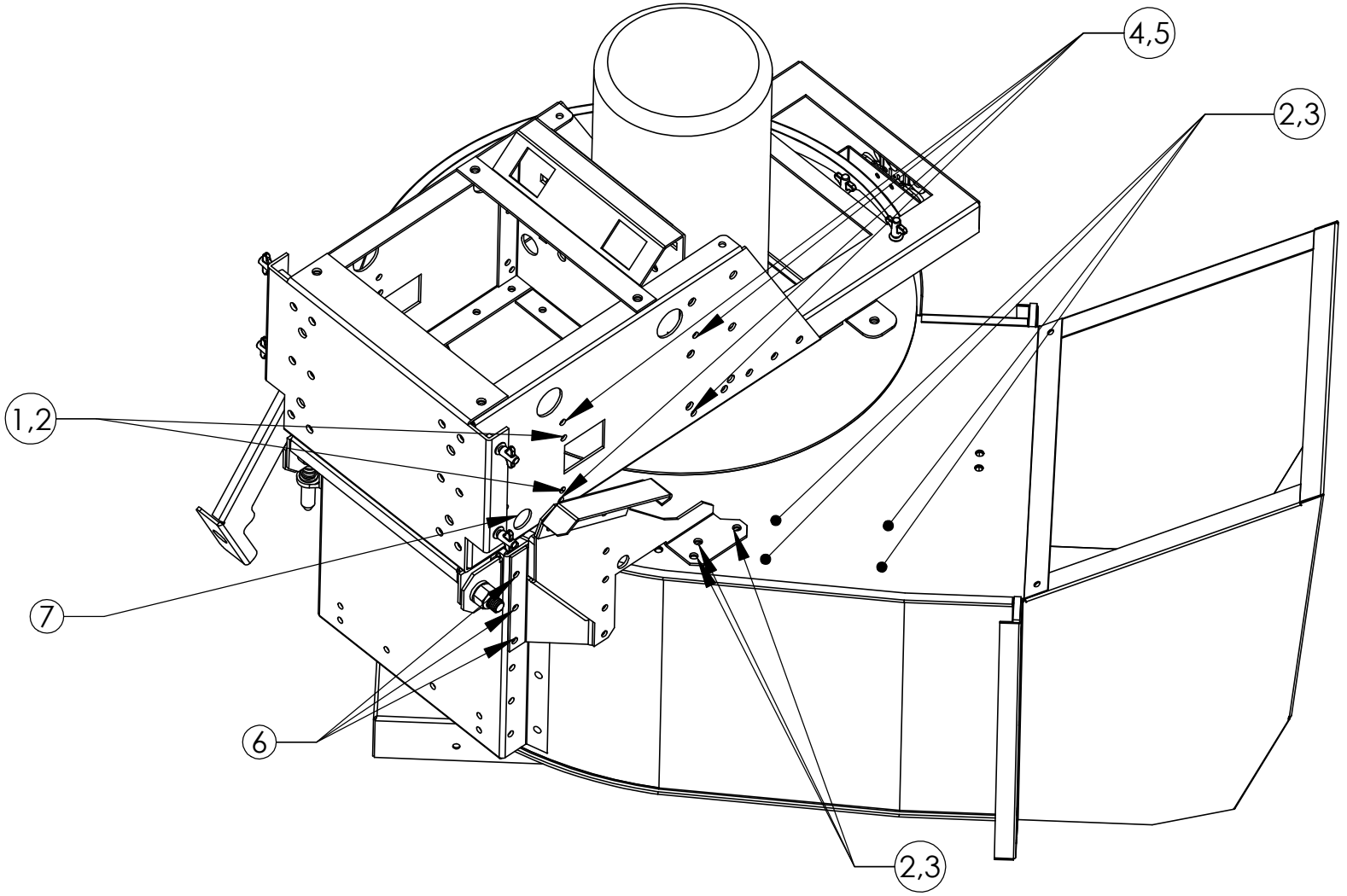
Disconnect Retro Kit Parts List

Size	Kit Part #
13BD	CASREDISARMRETROKIT13BD
13DD	CASREDISARMRETROKIT13DD
15BD	CASREDISARMRETROKIT15BD
15DD	CASREDISARMRETROKIT15DD
18BD	CASREDISARMRETROKIT18BD
18DD	CASREDISARMRETROKIT18DD
20BD	CASREDISARMRETROKIT20BD
20DD	CASREDISARMRETROKIT20DD
24BD	CASREDISARMRETROKIT24BD
24DD	CASREDISARMRETROKIT24DD

The retro kits inlude the parts below as well as the hardware on the next page.

Retro Kit Part #s				
Size	Motor Cover Assembly	Retro Template	Disconnect	Disconnect Arm Assembly
13BD	CASRE13WMC-BD	CASREDISARMRETRO13	AHDS30	CASREDISARM13-20
13DD	CASRE13WMC-DD	CASREDISARMRETRO13	AHDS30	CASREDISARM13-20
15BD	CASRE15WMC-BD	CASREDISARMRETRO15	AHDS30	CASREDISARM13-20
15DD	CASRE15WMC-DD	CASREDISARMRETRO15	AHDS30	CASREDISARM13-20
18BD	CASRE18WMC-BD	CASREDISARMRETRO18	AHDS30	CASREDISARM13-20
18DD	CASRE18WMC-DD	CASREDISARMRETRO18	AHDS30	CASREDISARM13-20
20BD	CASRE20WMC-BD	CASREDISARMRETRO20	AHDS30	CASREDISARM13-20
20DD	CASRE20WMC-DD	CASREDISARMRETRO20	AHDS30	CASREDISARM13-20
24BD	CASRE24WMC-BD	CASREDISARMRETRO24	AHDS60	CASREDISARM24
24DD	CASRE24WMC-DD	CASREDISARMRETRO24	AHDS60	CASREDISARM24

Disconnect Retro Kit Hardware



Disconnect Retro Kit - Hardware - Part Information												
Item #	Part Number / AX Number	Description Of Part	13 - BD #	13 - DD #	15 - BD/BDHP #	15 - DD #	18 - BD/BDHP #	18 - DD #	20 - BD/BDHP #	20 - DD #	24 - BD/BDHP #	24 - DD #
1	800026/ A0005680	1/4"-20 X 3/4" Pan Head Screw	2	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
2	800034	1/4"-20 Whiz Nut	9	9	6	6	7	7	7	7	8	10
3	800044	1/4"-20 X 3/4" Whiz Bolt	7	7	6	6	7	7	7	7	8	8
4	Included w/ AHDS Disconnect	Disconnect Screw 10-32 X 5/8"	N/A	N/A	4	4	4	4	4	4	4	N/A
5	90272A833/ A0026557	Disconnect Screw 10-32 X 1"	4	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4
6	31817	12-14 X 3/4" Sheet Metal Screw	3	3	3	3	3	3	3	3	3	3
7	Bushing 7/8 / A0019565	7/8" Snap Bushing	N/A	1	N/A	1	N/A	1	N/A	1	N/A	1