

Assembly Instructions



THE GUARDIAN



 **Bluestreak**equipment
The world's best magnetic cleaning equipment

Bluestreak Equipment
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Ontario, Canada
N4B2W6

Number of Boxes



The Guardian Magnetic Sweeper is packaged in 4 separate cardboard boxes.

The boxes are labeled as follows:

- Box 1 of 4
- Box 2 of 4
- Box 3 of 4
- Box 4 of 4

What's in the Box



Contents of Box 1 of 4:

- 1pc - Vented Mounting Bracket
- 4pcs - ½" x 1 ½" Hex Bolts
- 4pcs - ½" Washers
- 1pc - Half Round Pin Hook
- 2pcs - 5" Threaded Rod
- 2pcs - 9" Threaded Rod
- 2pcs - ½" Lock Washers
- 2pcs - ½ Hex Nuts
- 1pc - Bat Wing Stabilizer
- 2pcs - ½" Hex Nuts
- 2pcs - ½" x 1" Hex Bolts
- 6pcs - 3/8" x 1" Hex Bolts
- 4pcs - 3/8" Washers
- 1pc - Top Pivot Locking Bracket



What's in the Box (continued)



Contents of Box 2 of 4:

- 1pc - Left Cartridge
- 1pc - Orange Poly Debris Catcher



Contents of Box 3 of 4:

- 1pc - Center Cartridge



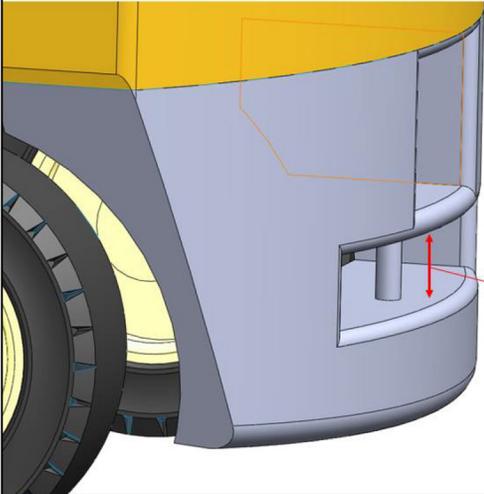
Contents of Box 4 of 4:

- 1pc - Right Cartridge
- 1pc - Orange Poly Debris Catcher

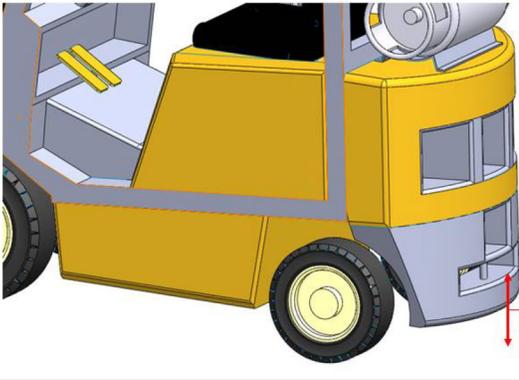


Step 1. Measure Your Forklift

Step 1- A. Measure the Pin Slot height. Use this Measurement in Step 2.

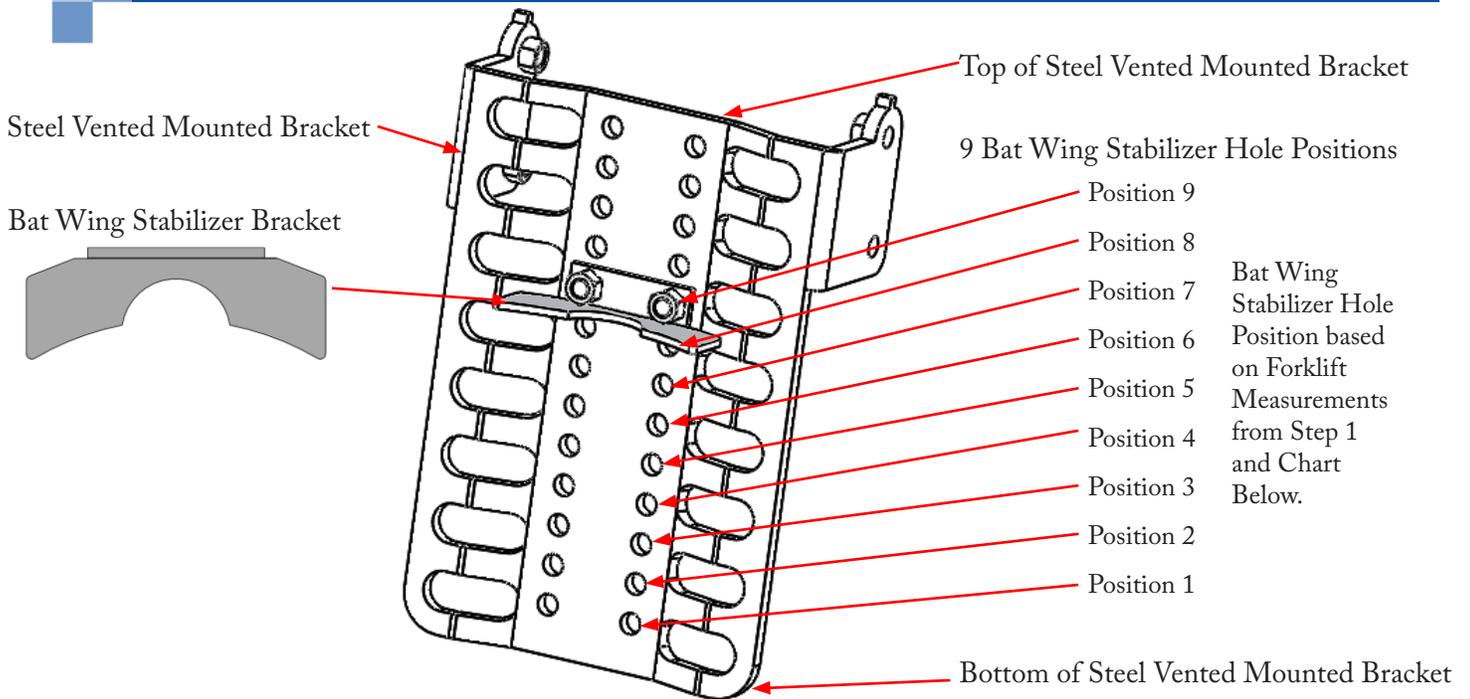
Forklift Dimension	Minimum	Maximum
<p>Pin Slot Height – which is the measured height of the PIN slot from top to bottom</p>  <p>Pin Slot Height – The height of the Pin slot from top to bottom.</p>	1 and 1/8 inches	5 inches

Step 1-B. Measure the height from the bottom of the Pin Slot to ground level. Use this measurement in Step 2.

Forklift Dimension	Minimum	Maximum
<p>Height from bottom of Pin Slot to ground level – measure up from the ground to bottom edge of the Pin slot.</p>  <p>Height from Bottom of Pin Slot to ground Level – The distance from ground level to bottom edge of the Pin Slot.</p>	6 1/2 inches	15 1/2 inches
	15 1/2 inches	23 1/2 inches (with accessory bracket)



Step 2. Install Bat Wing Stabilizer Bracket



The parts needed for this Step are in Box 1 of 4.

Install the Bat Wing Stabilizer Bracket on the Steel Vented Mounting Bracket in one of the bottom 9 Bat Wing Stabilizer hole positions based on the chart to the right. (Using the chart will ensure a sweeping height of 2.5 to 3.5 inches which is optimal)

Use two ½” inch diameter hex bolts x 1 inch long and two ½” diameter hex nuts to fasten it to the Steel Vented Mounting Bracket. Make sure the nuts are on the inside (same side as the Bat Wing Stabilizer Bracket).

NOTE: Pin Slot Height - Measurement from Step 1.

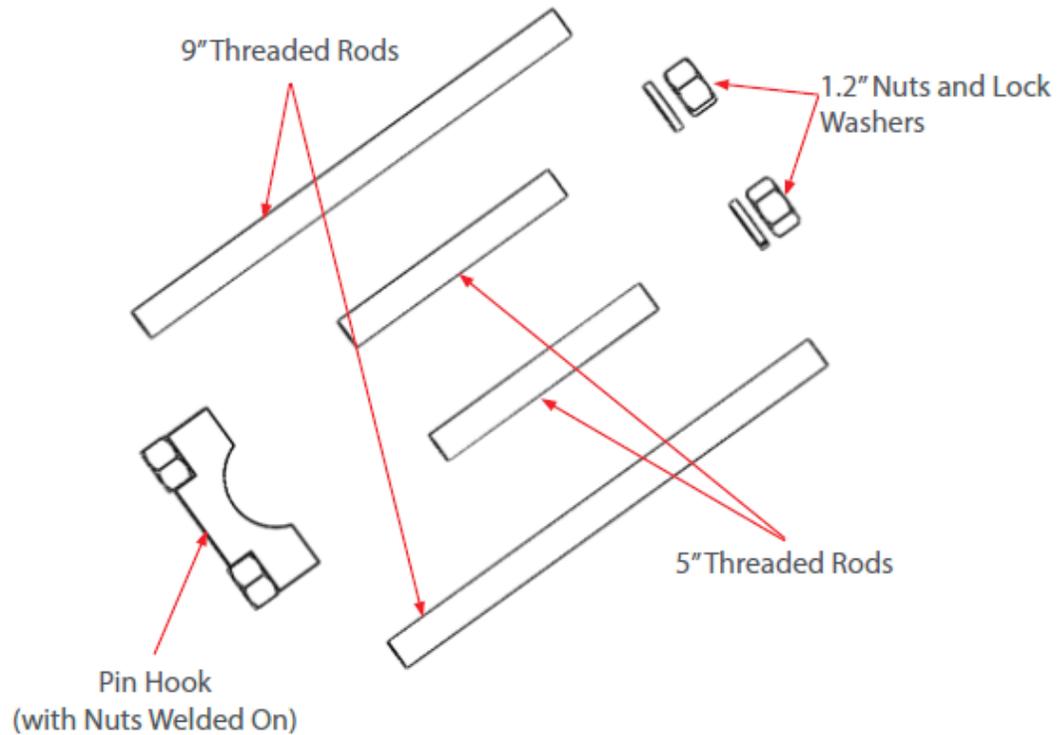
If the Pin Slot Height (measurement from Step 1-A) is less than 2 inches, take note of the Bat Wing Stabilizer hole position recommended in the Chart to the right but do not connect the Bat Wing Stabilizer Bracket to the Steel Vented Mounting Bracket in this step because the Threaded Rod will have to use this same position in the next steps, and will therefore have to pass through the Bat Wing Stabilizer Bracket holes.

Use your Forklift Measurement from Step 1-B and follow the chart below to determine the recommended Bat Wing Stabilizer Hole Position.

Height from Bottom of Pin Slot on Forklift to Ground Level (Measurement from 1-B)		Suggested Bat Wing Stabilizer Position
From	To	
14.5	15.5	9
13.5	14.5	8
12.5	13.5	7
11.5	12.5	6
10.5	11.5	5
9.5	10.5	4
8.5	9.5	3
7.5	8.5	2
6.5	7.5	1



Step 3. Prepare Half Round Pin Hook



Remove the following contents from Box 1 of 4:

- 1pc - Half Round Pin Hook
- 2pcs - 5" Threaded Rod
- 2pcs - 9" Threaded Rod
- 2pcs - 1/2" Hex Nut
- 2pcs - 1/2" Lock Washer

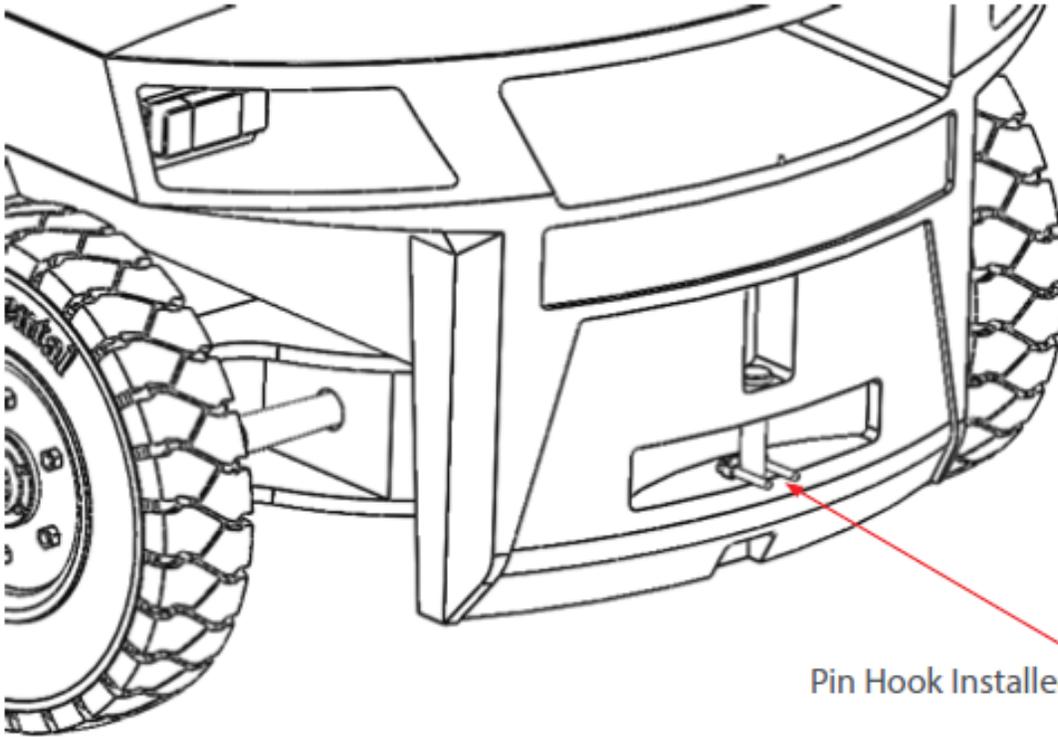
The Guardian comes with 2 sets of threaded rods, one set 9" long and one set 5" long to accommodate forklift pin depths of varying sizes. Choose the length of Threaded Rod that is the best fit for your forklift.

Choose the length of threaded rod that when the Pin Hook is behind the Pin, the threaded rods protrude out past the back of the forklift far enough to go through the steel vented mounting bracket to attach it to the forklift using the 1/2" nuts and lock washers.

Thread your chosen Threaded Rod (either the 5" or the 9" length) into the Half Round Pin Hook to prepare it for mounting to the forklift.



Step 4. Install Pin Hook onto Forklift



Pin Hook Installed on Forklift

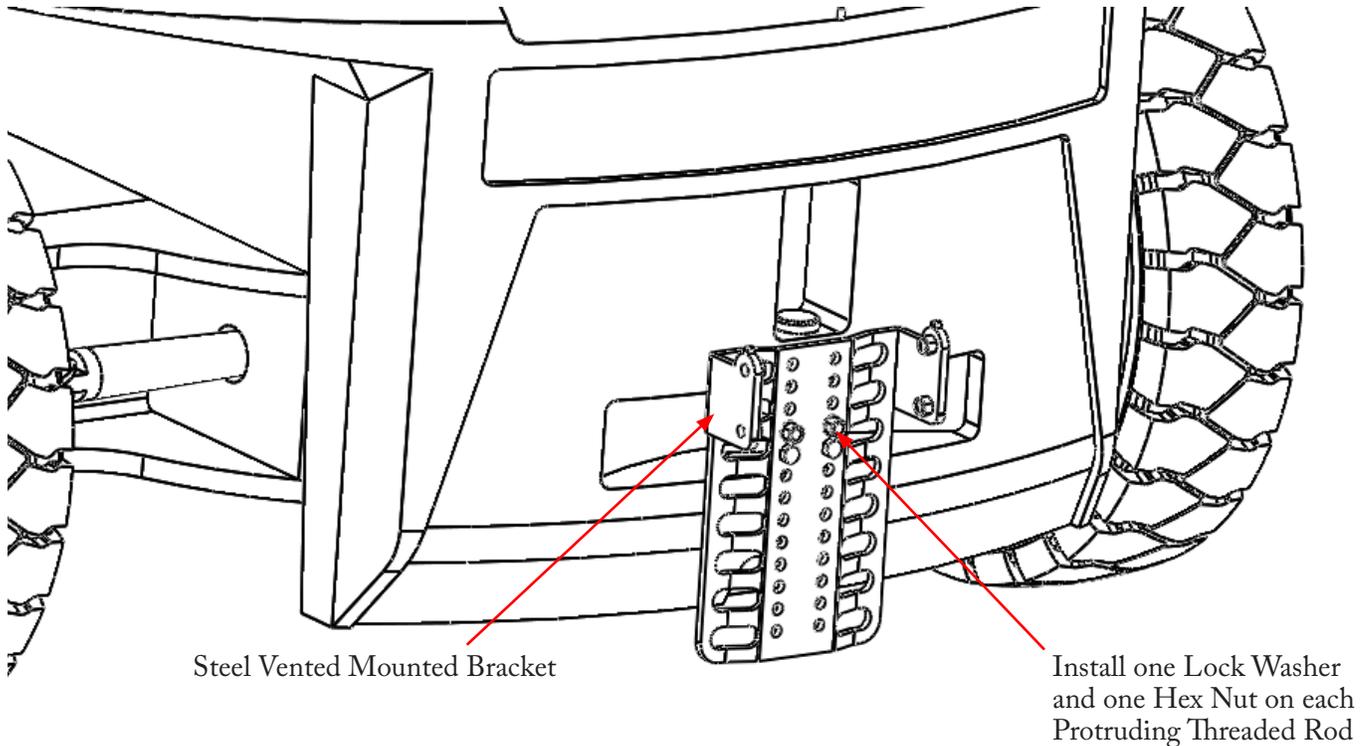
Lift the Pin upwards on the back of the forklift to install the Pin Hook. Lower the Pin once the Pin Hook is in Place.

If you chose the correct length of Threaded Rod in Step 3, the Threaded Rod will be protruding beyond the back of the forklift enough for the Threaded Rod to extend through the Steel Vented Mounting Bracket just far enough to screw the nuts on the threaded rod completely in the next step.

If you see that the Threaded Rod will likely protrude out past the nuts when screwed on, adjust the Threaded Rod by screwing it further into the Steel Half Round Pin Hook on the other end.



Step 5. Install The Vented Steel Mounted Bracket



Set the Vented Steel Mounting Bracket in the Pin Slot so that the Bat Wing Stabilizer Bracket is sitting on the bottom edge of the Pin Slot.

NOTE: If you did not connect your Bat Wing Stabilizer Bracket to the Steel Vented Mounting bracket in Step 2 because your Pin Slot Height is less than 2 inches, put the Bat Wing Stabilizer Bracket on the Threaded Rods and then pass the Threaded Rods through the Steel Vented Mounting Bracket position you need to use as laid out previously.

Otherwise, Insert the Threaded Rods from the Pin Hook assembly into the holes of the Steel Vented Mounting Bracket as close to the middle of the vertical set of holes as you can subject to the limits of your Pin Slot height. This will likely require you to lift the Pin hook assembly up within the Pin Slot as you insert the threaded rods through the Steel Vented Mounting Bracket.

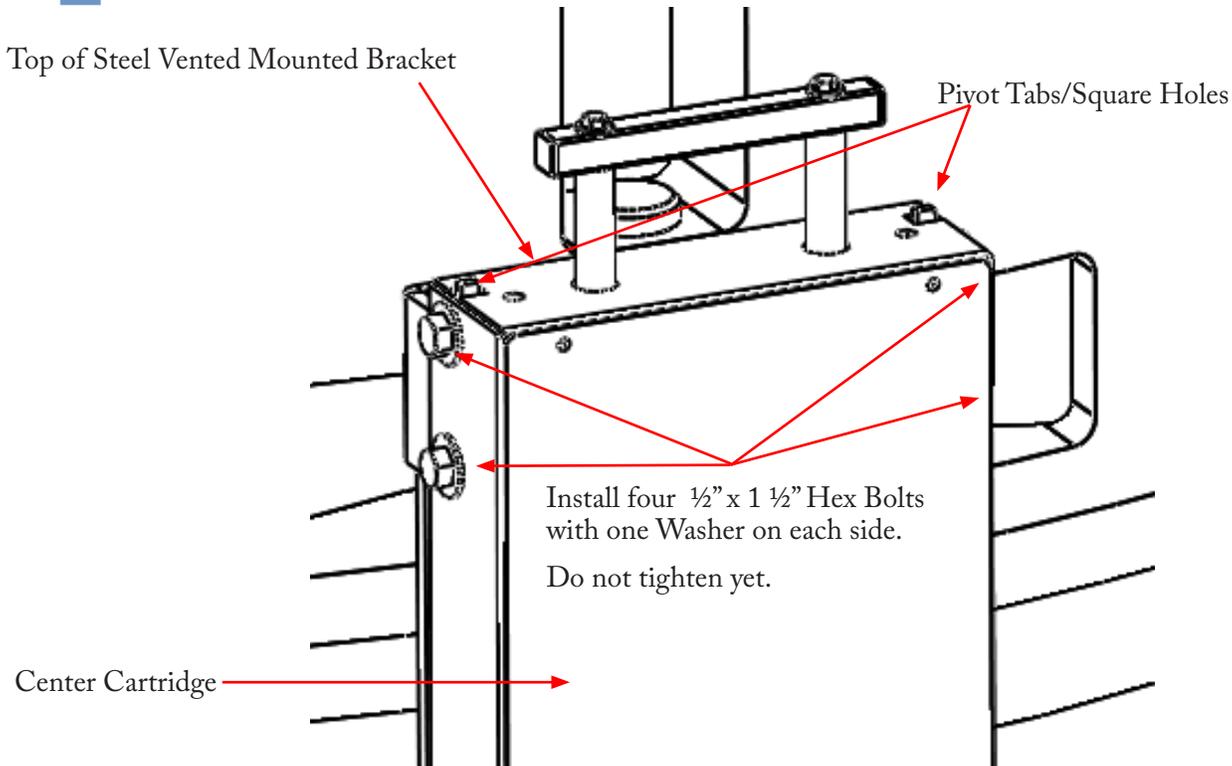
Attach using one ½" lock washer and one ½" nut on each protruding threaded rod and tighten firmly.

When these nuts are tight it is important that the threaded rod does not stick out past the nuts as this will cause interference in the next step. If the Threaded Rod does stick out past the nuts, readjust the Threaded Rod so that it is screwed further into the Steel Half round Pin Hook on the other end and re-try.

When you are done check to ensure that the Bat Wing Stabilizer Bracket is still sitting on the bottom edge of the Pin Slot.



Step 6. Install The Center Cartridge



Set the Center Cartridge onto the Steel Vented Mounting Bracket. There are two slots in the top of the back side of the Center Cartridge that will allow insertion of the protruding hanging arms from the Steel Vented Mounting Bracket.

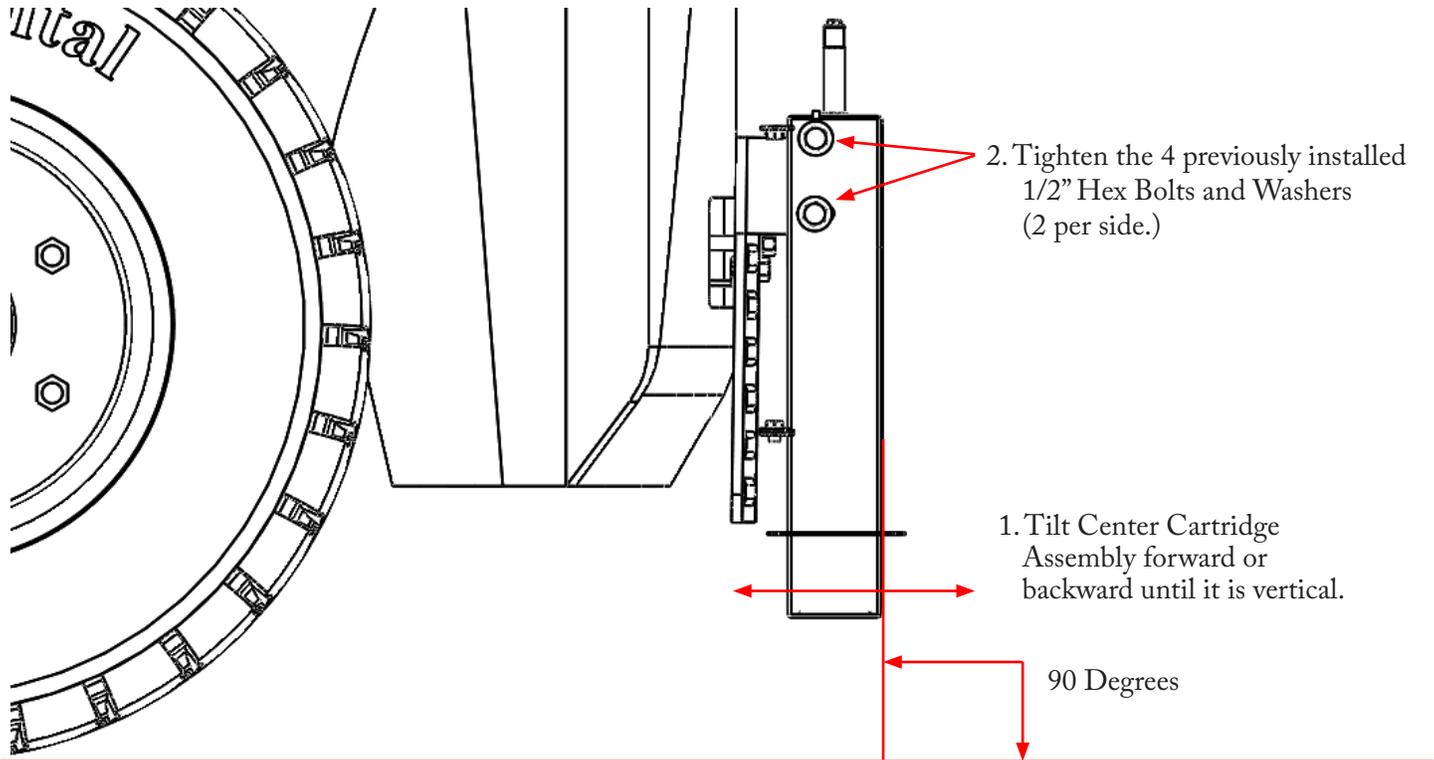
There is also a Pivot Tab on the top of the center of each Hanging arm that needs to be inserted into the corresponding square hole in the Top of the Center Cartridge.

Once the Center Cartridge is hanging on the pivot tabs of the Steel Vented Mounting Bracket the Center Cartridge will be able to swing freely inward and outward.

Install four $\frac{1}{2}$ " x $1\frac{1}{2}$ " Hex Bolts with a washer on each side as shown above. Do not tighten yet.



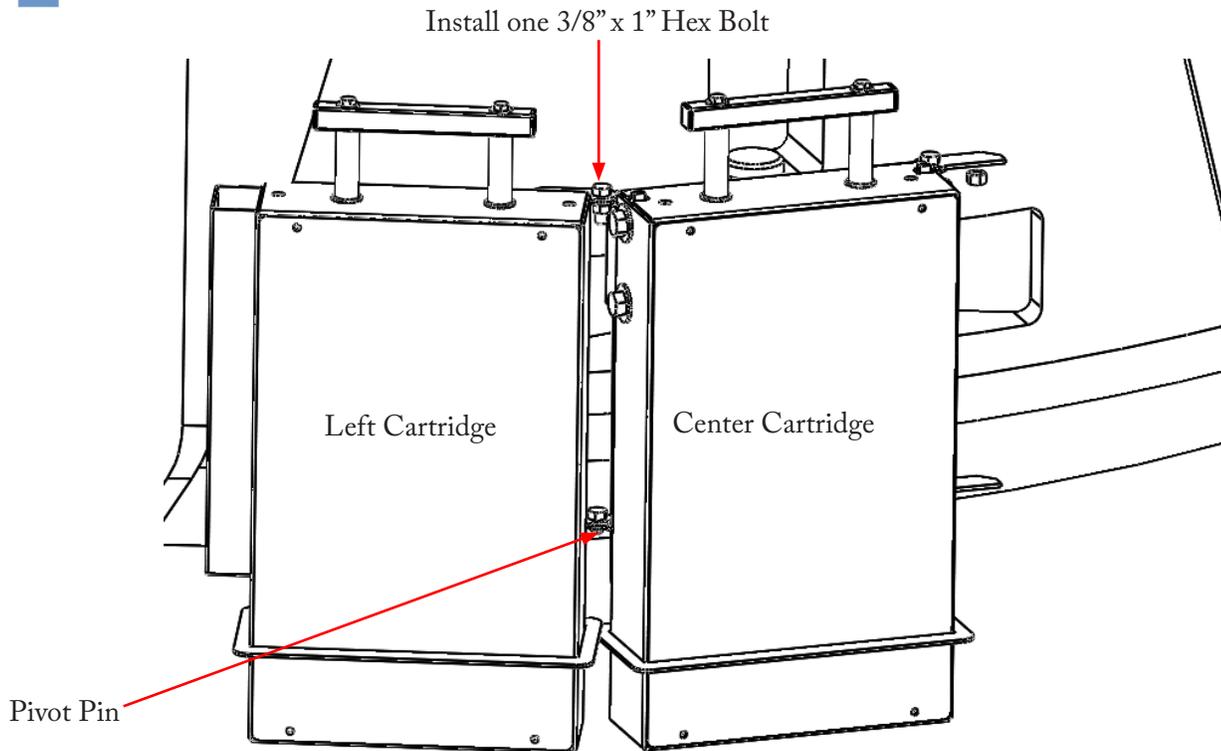
Step 7. Level The Center Cartridge



Using a level (or your eyes if they do a good job) make the Center Cartridge level by tilting the bottom inward or outward and then tighten all 4 of the 1/2" diameter bolts installed in the previous step.



Step 8. Attach the Left and Right Cartridges



The Left Cartridge has 2 tabs welded on the back side. The lower tab has a Pivot Pin welded to it that needs to be inserted into the corresponding tab on the back side of the Center Cartridge.

Lift and place the Left Cartridge so that the lower Pivot Pin is inserted into the tab on the Center Cartridge.

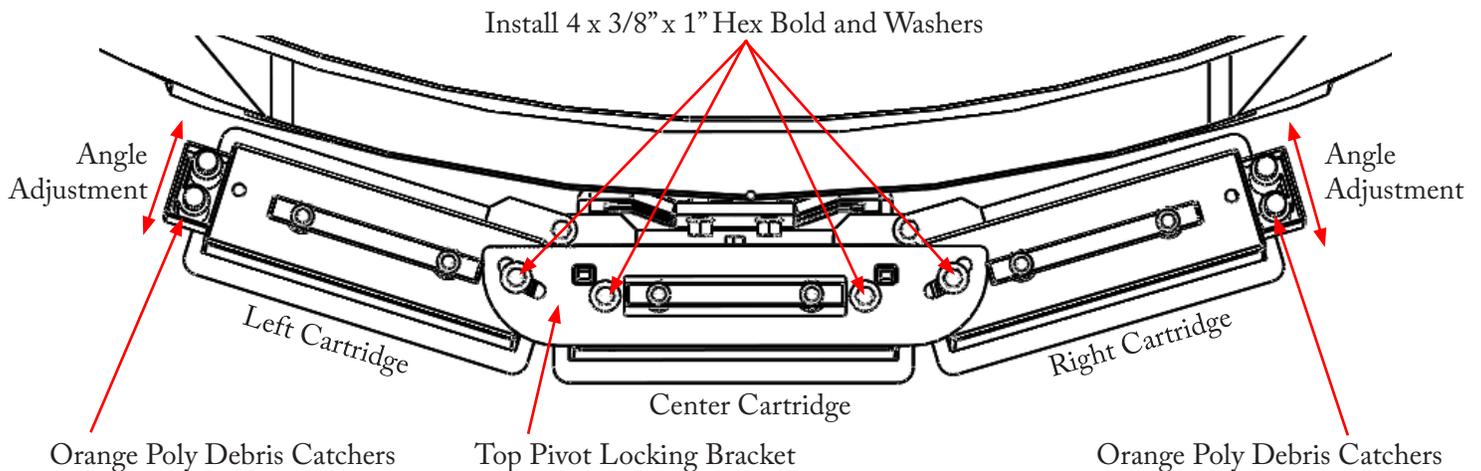
Install a 3/8" x 1" Hex Bolt in the top pivot tab.

Repeat the same steps for the Right Cartridge.

Do not tighten the 3/8" Hex Bolts on either cartridge yet.



Step 9. Install The Top Pivot Locking Bracket



Place the Top Pivot Locking Bracket on the top of the Center Cartridge as shown above. You will have to tilt the bracket to get it over top of the pull handle on the Center Cartridge.

Install four 3/8" x 1" Hex Bolts with Washers as shown in picture above.

Step 10. Adjust the Cartridge Angles

Adjust the angle of the Left and Right Cartridge so they are close to the back of your forklift. When you are done adjusting, tighten all 4 of the 3/8" Hex Bolts on the top of sweeper from Step 9. Also now tighten both of the 3/8" Hex Bolts located on the top of each side cartridge from Step 8.

Step 11. Install Debris Catchers

Install the Orange Poly Debris Catchers (place one in each of the Left and Right Cartridges).



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