

Atmos 50.25" Long 6.55" Diameter Extruded PVC Finned Tube - Installation Instructions

Note: The following instructions will cover the complete installation of a 50.25" Long 6.55" Diameter Extruded PVC Finned Tube for your Atmos Magnetic Sweeper.

Main Components Diagram

Part #24 – Upper Frame Rods (57" Long)

Part #8 – 50.25" Long 6.55" Diameter Extruded PVC Finned Tube

Part # 10 or 11 – RH or LH Drive Assembly (Assembly and Parts in Steps A1 to A4)

Part #19 – 8" Wheel

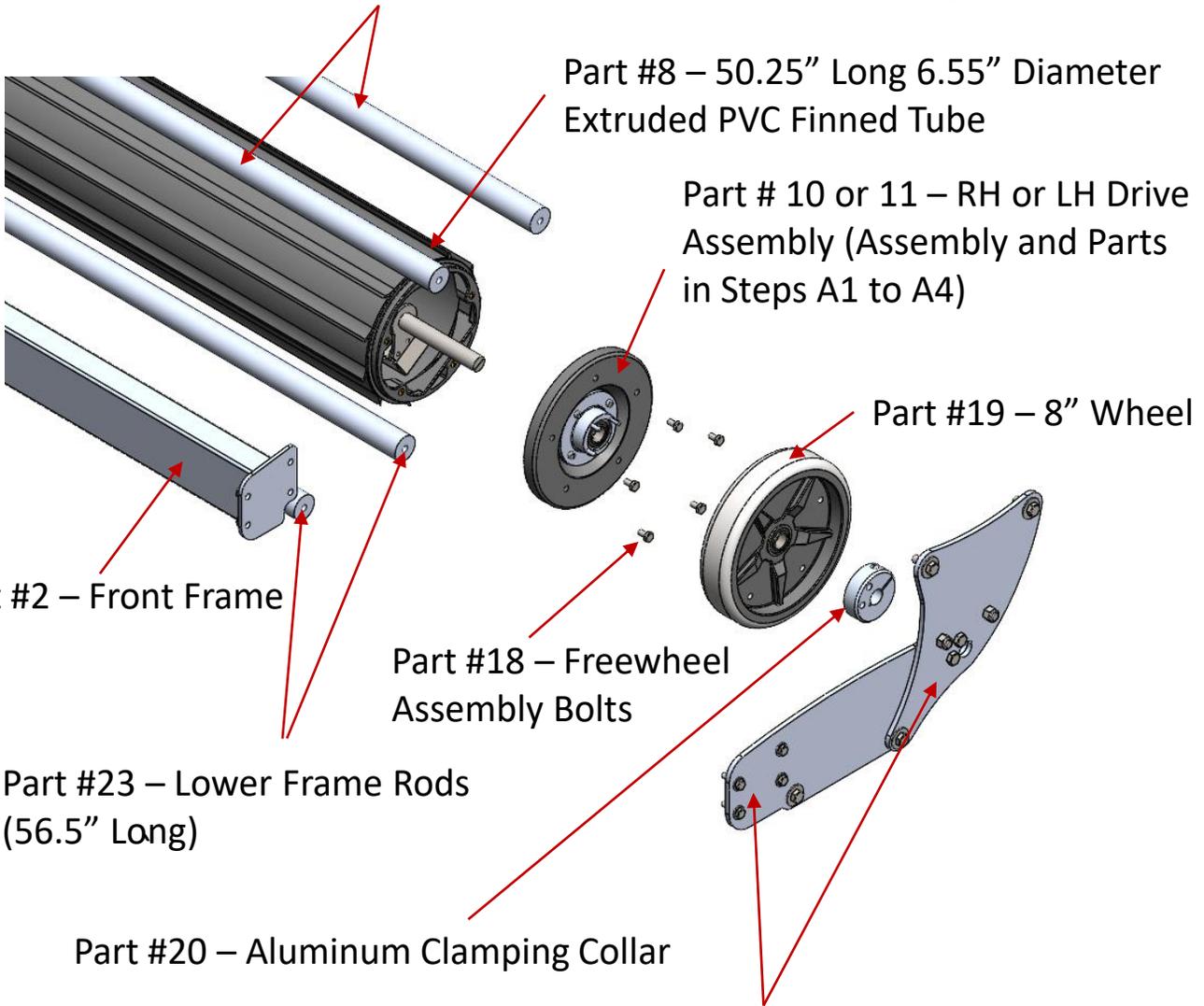
Part #2 – Front Frame

Part #18 – Freewheel Assembly Bolts

Part #23 – Lower Frame Rods (56.5" Long)

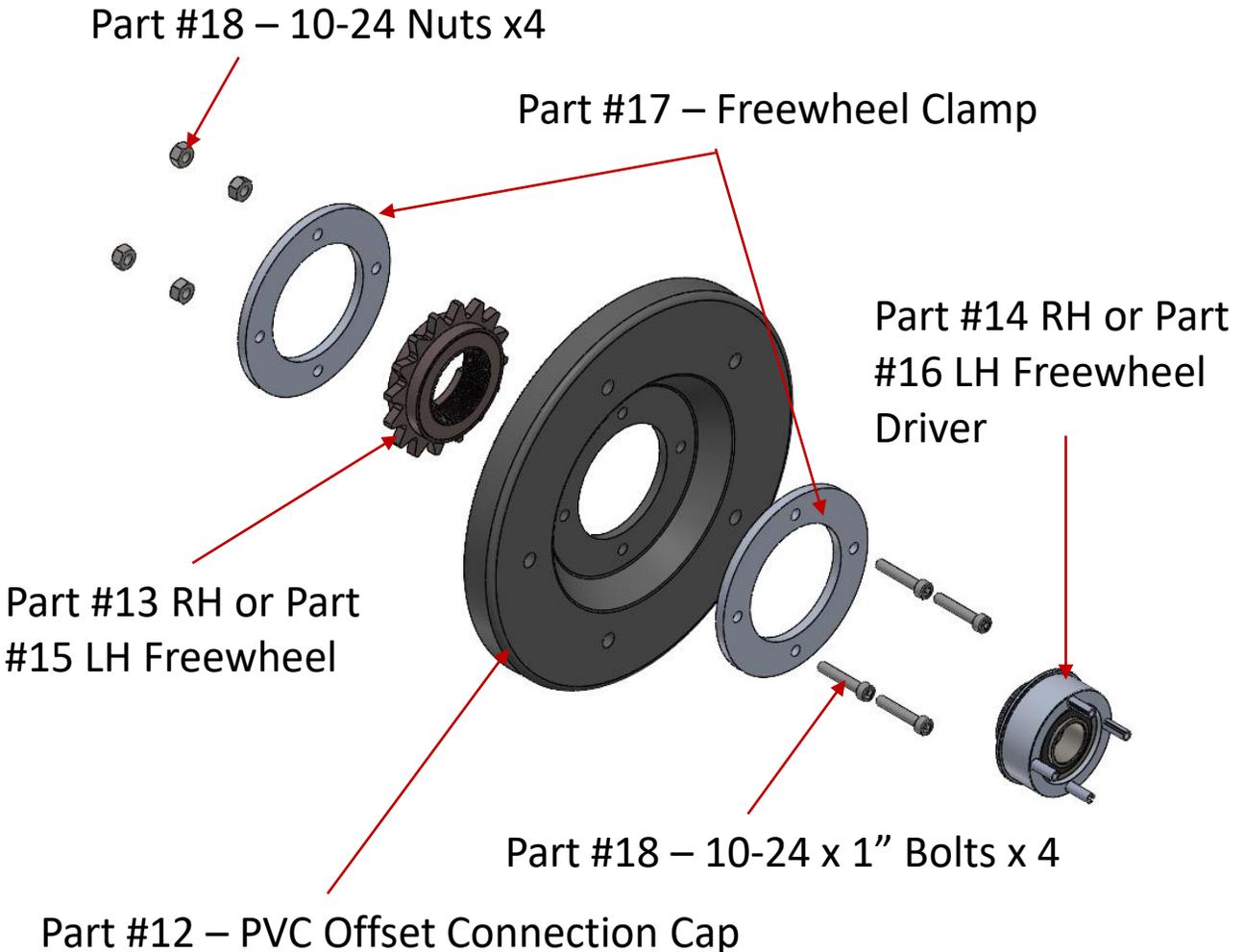
Part #20 – Aluminum Clamping Collar

Part #25 – Upper and Lower End Plates



RH and LH Drive Assembly – Parts Diagram

Note: The RH and LH Drive Assemblies need to be assembled before installation of the PVC or Stainless Finned Tube can begin. All Parts in the Diagram Below except Part #12 are identical on both the Stainless or PVC Finned Tubes.



THIS PART IS THE ONLY PART in the Drive Assembly that is **Different** than when using a Stainless Steel Finned Tube

Note: the above diagram is for both RH and LH Sides of the Sweeper.

- Select the correct LH or RH Freewheel by standing behind the sweeper as if you were going to push it forward.
 - On the right side of sweeper (caster wheel side is front), use the Part #13 RH Freewheel (one with 4 notches)
 - On the left side of sweeper (caster wheel side is front), use the Part #15 LH Freewheel (one with 6 notches)
- Use the corresponding Part #14 RH of #16 LH Freewheel Driver for each side.

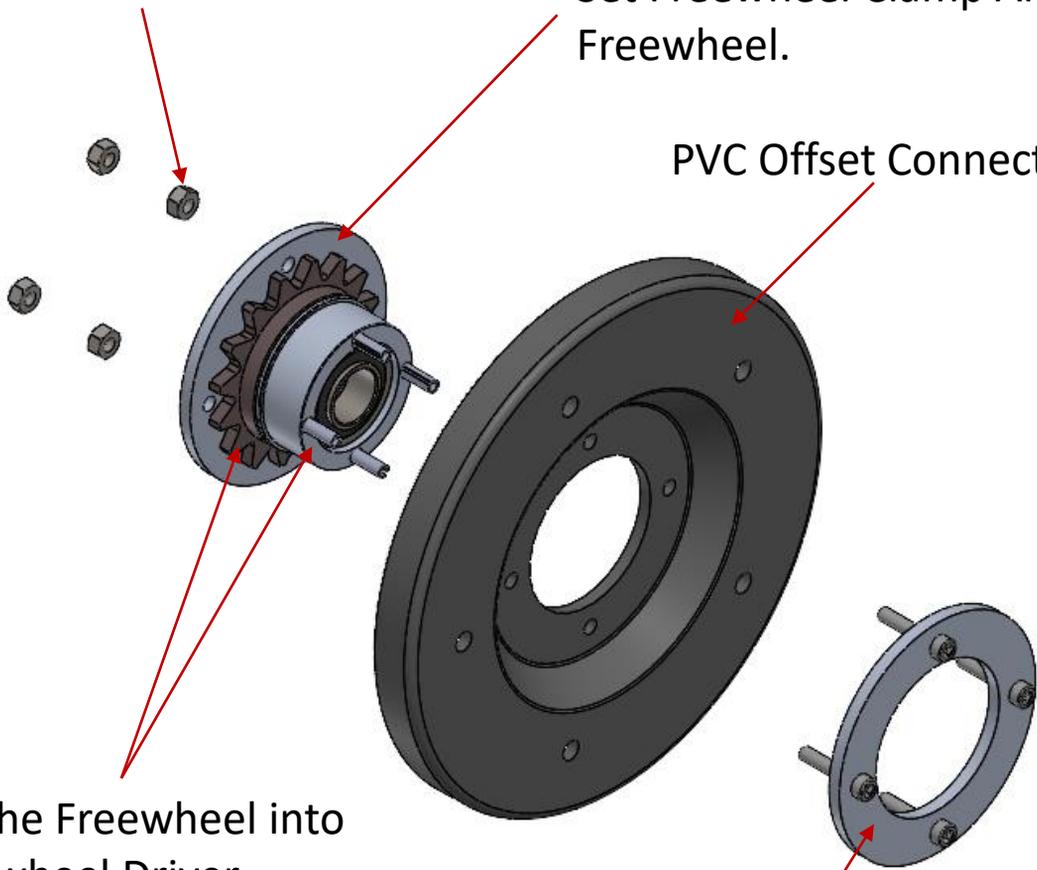
Step #A1

Assembly of RH or LH Drive

10-24 Nuts x4

Set Freewheel Clamp Around Freewheel.

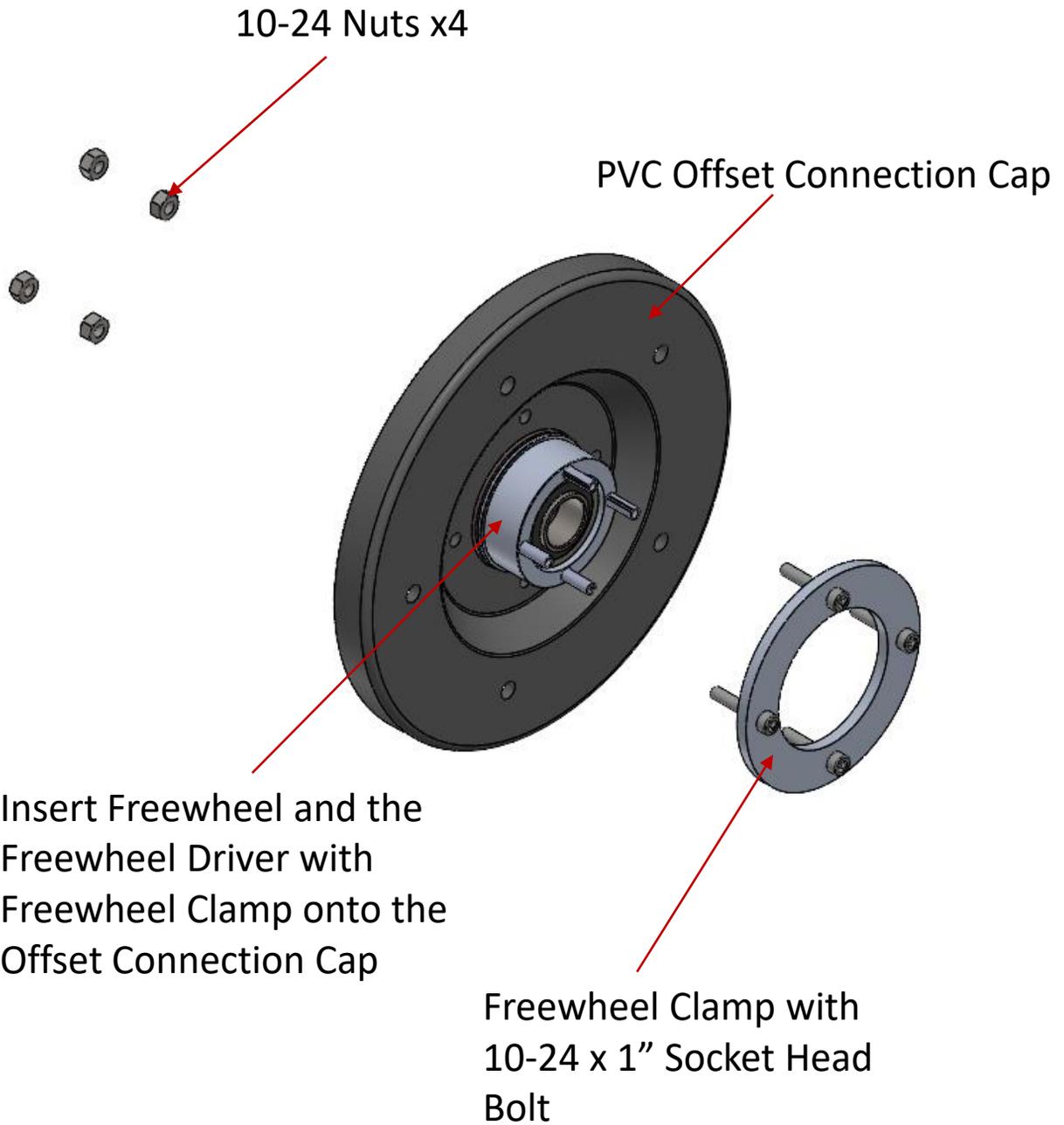
PVC Offset Connection Cap



Thread the Freewheel into the Freewheel Driver

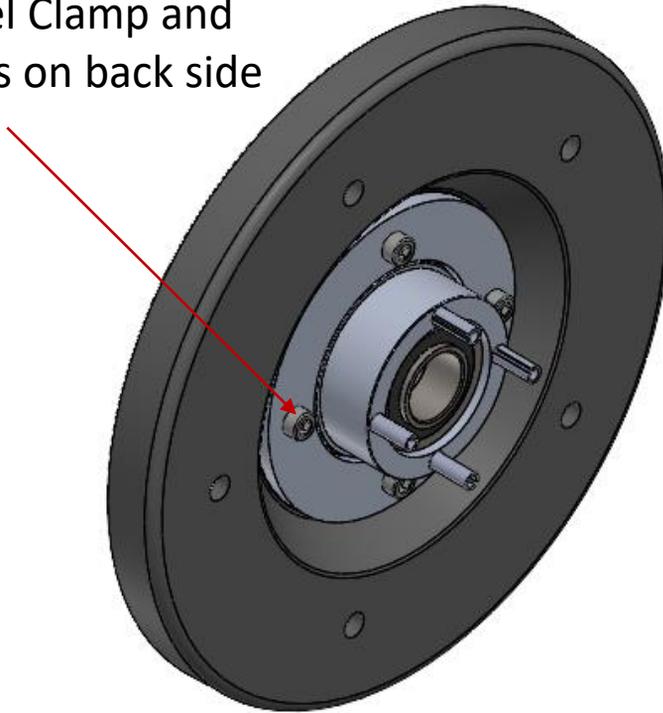
Freewheel Clamp with 10-24 x 1" Socket Head Bolt

Assembly of RH or LH Drive

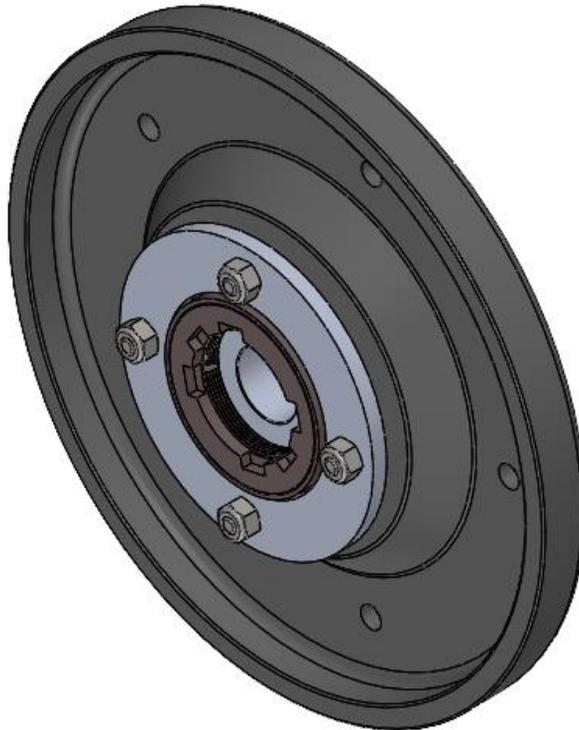


Assembly of RH or LH Drive

Install Freewheel Clamp and tighten all 4 nuts on back side evenly.



View of Completed Outside.

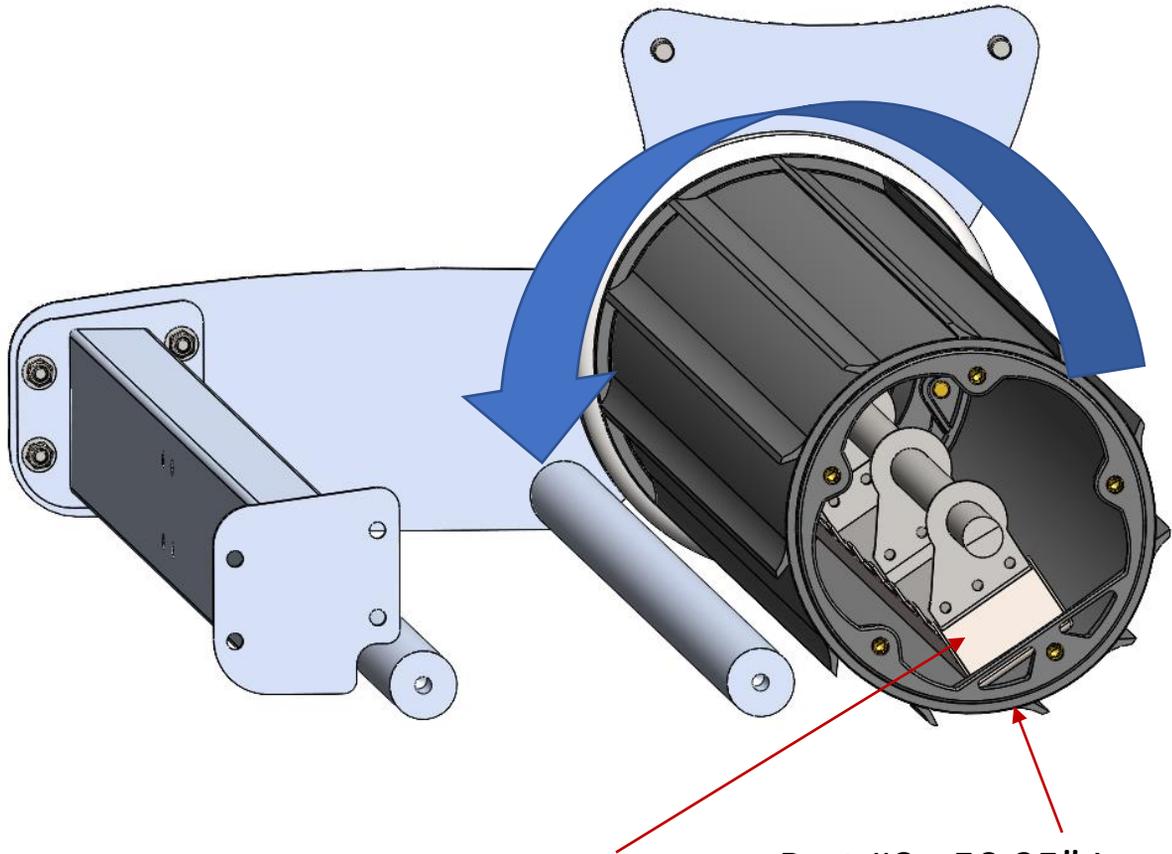


View of Completed Inside.

Repeat for Opposite Side Drive Assembly.

Step #A4

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



Part #9 - Magnet Assembly
(Stationary)

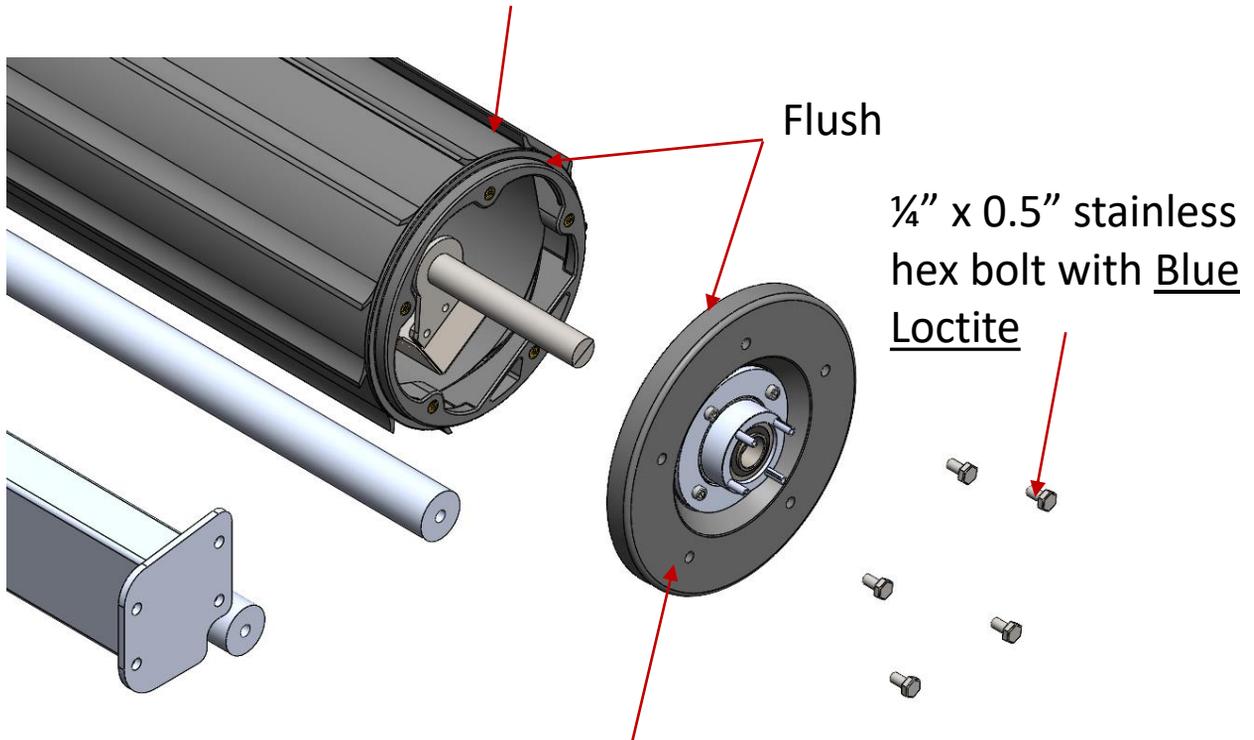
Part #8 - 50.25" Long 6.55"
Diameter Extruded PVC
Finned Tube (Rotating)

Install the new 50.25" Long 6.55" Diameter Extruded PVC Finned Tube (Part #8) for your Atmos Magnetic Sweeper so the orientation of the Fins on the Tube and the position of the Magnet Assembly (Part #9) are exactly as shown in this image.

Note: If the Tube and the Magnet are not positioned as show, your sweeper will not function properly.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation

50.25" Long 6.55" Diameter Extruded
PVC Finned Tube

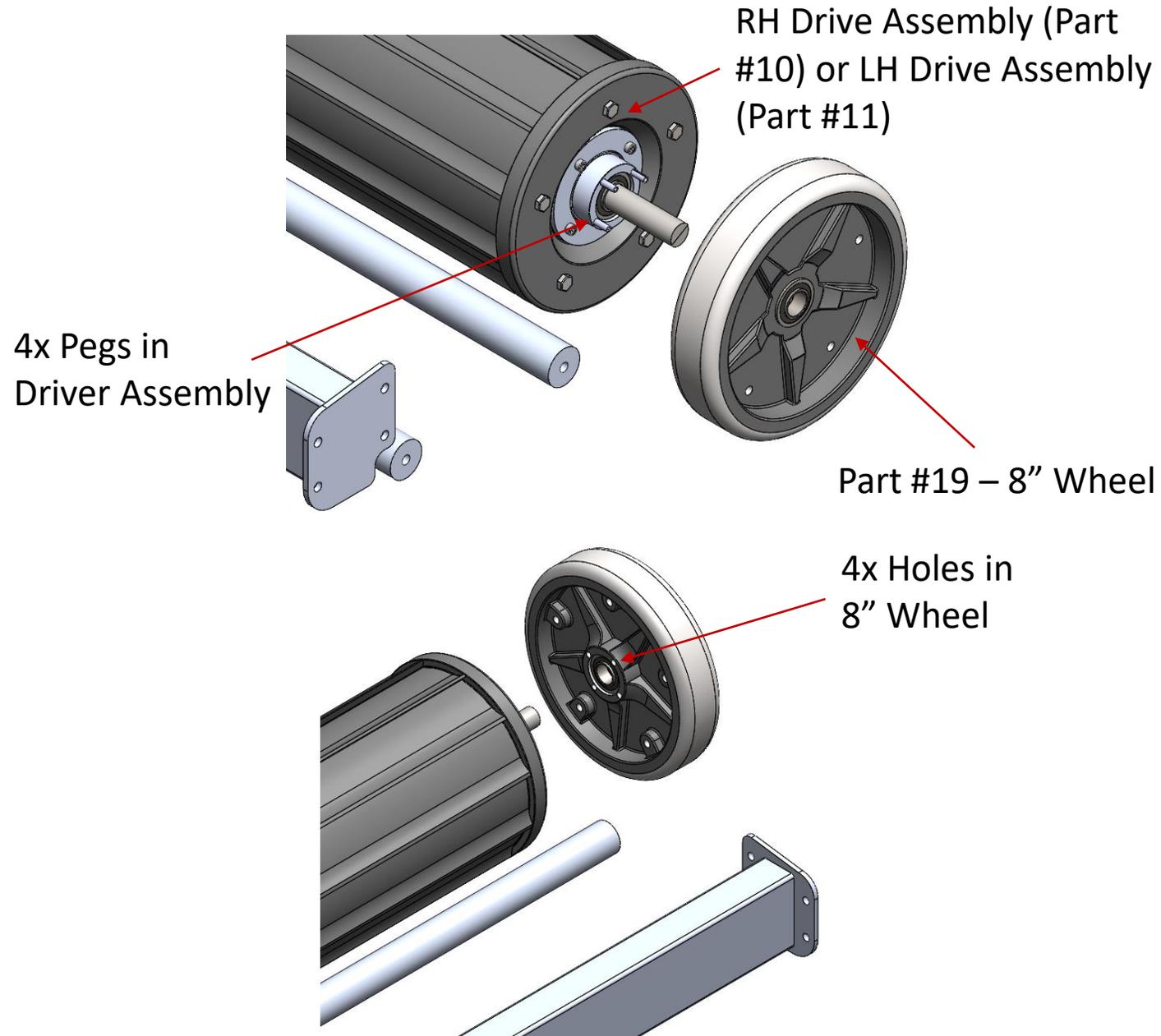


RH Drive Assembly (Part #10) or LH
Drive Assembly (Part #11)

- Install the Correct Driver Assembly ovetop of the axle and bolt onto the 50.25" Long 6.55" Diameter Extruded PVC Finned Tube.

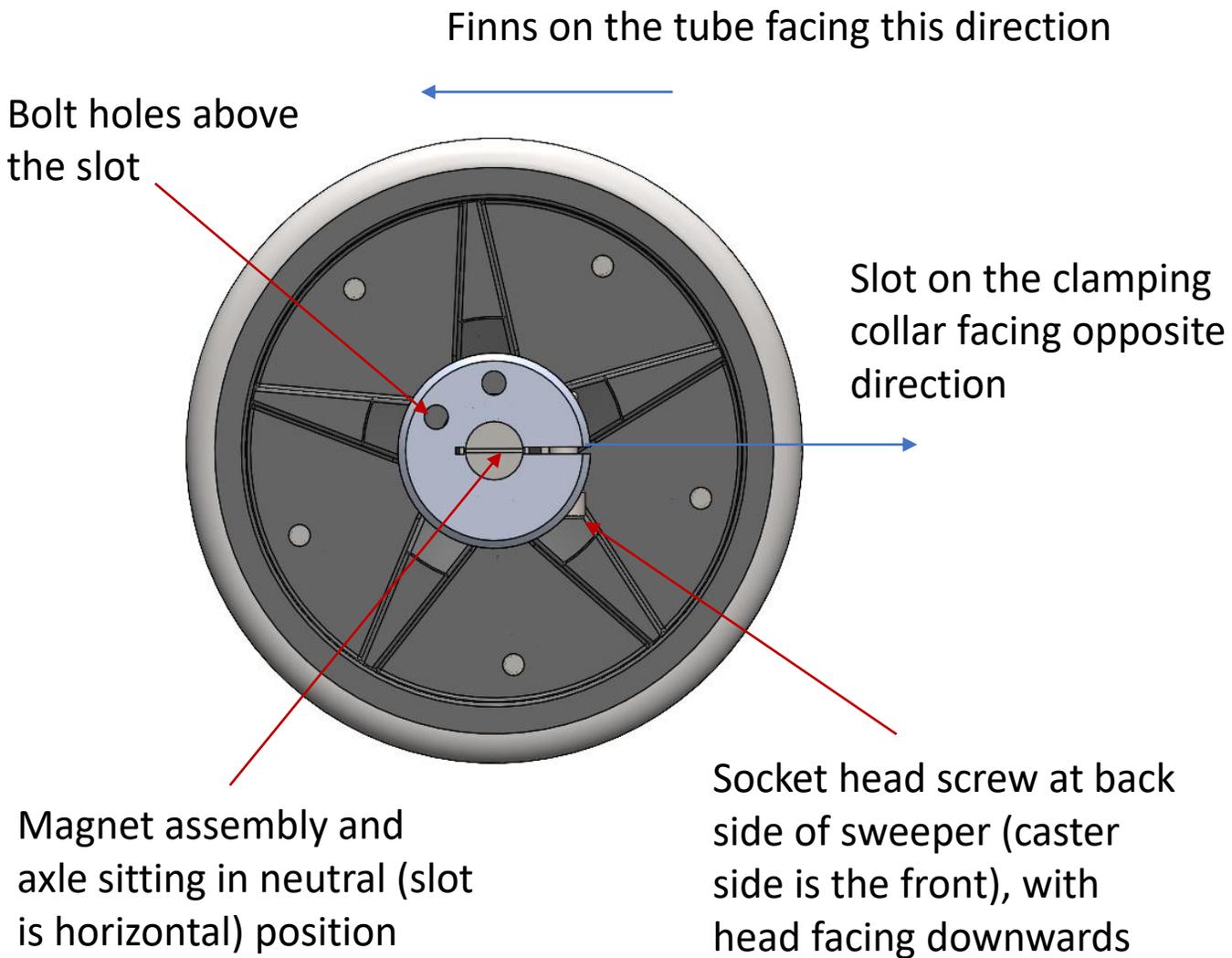
Note: The Driver Assembly will fit around the end of the 50.25" Long 6.55" Diameter Extruded PVC Finned Tube.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



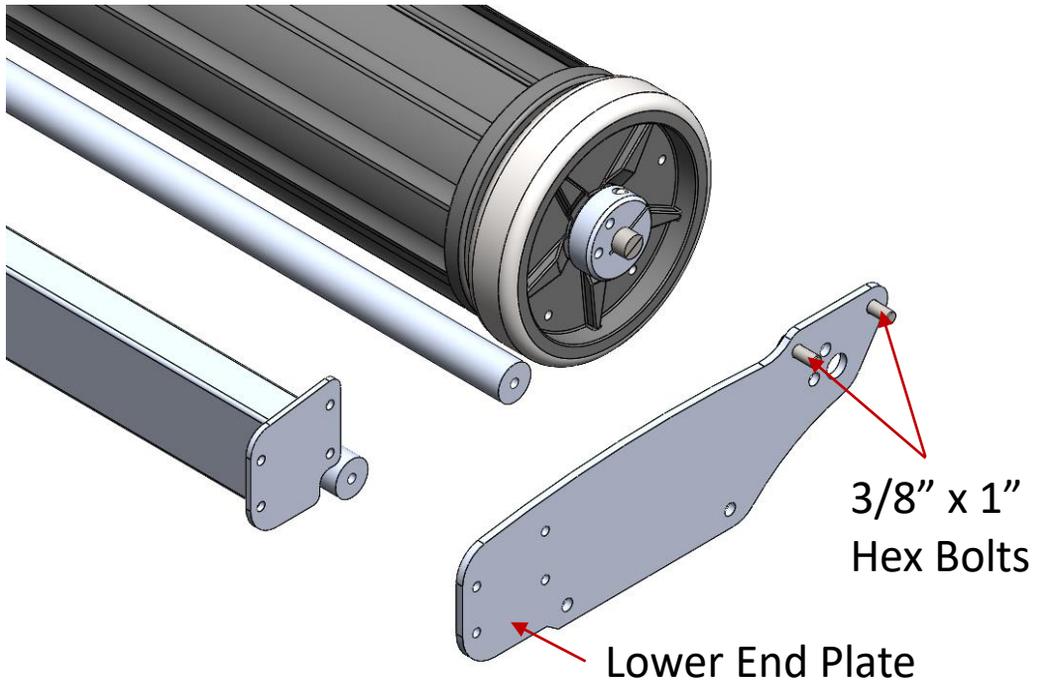
- Align the 4x pegs in the Driver Assembly with the 4x holes on the 8" Wheel.
- Install the 8" Wheel over the axle and up to the LH or RH Driver Assembly.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



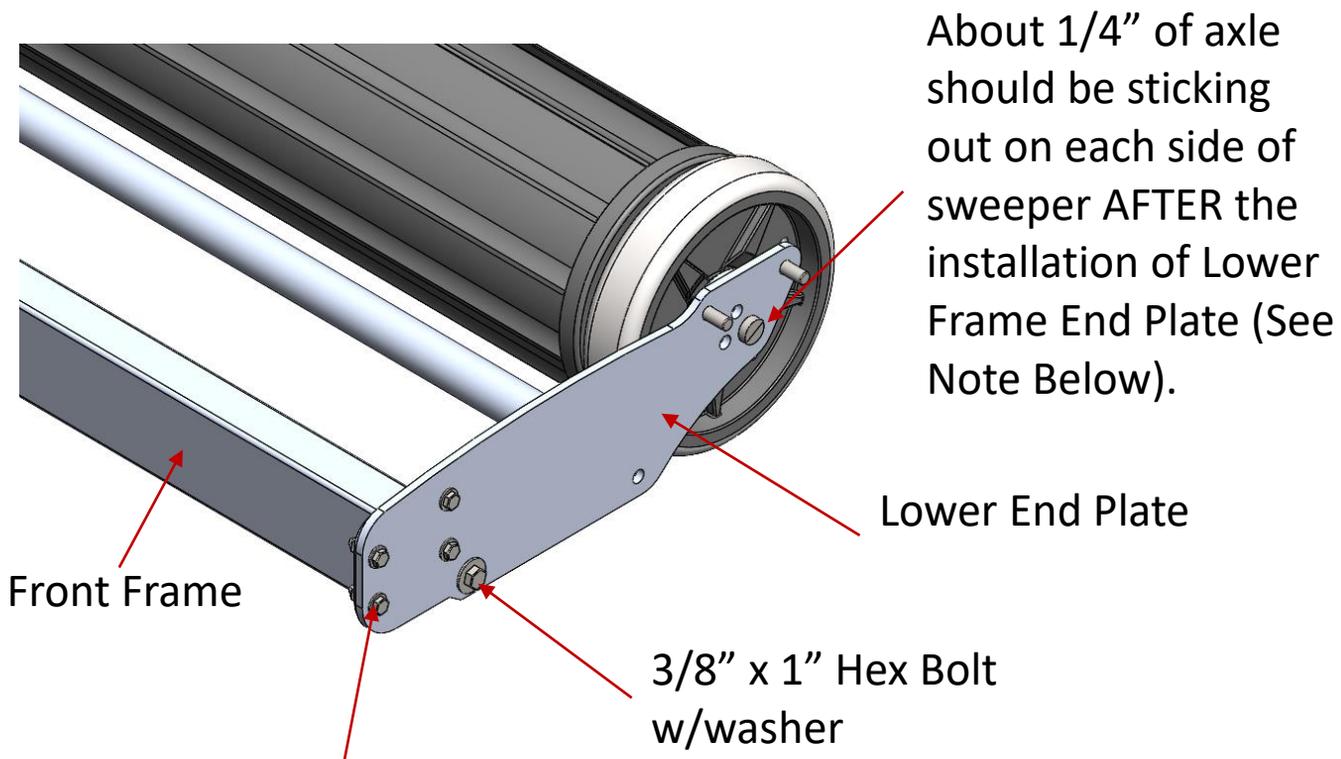
Note: If the Clamping Collar is not positioned as shown, they will not be able to be bolted onto the end plate properly.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



- Install 2x 3/8" x 1" hex bolts as shown.
- Install the Lower End Plate onto axle.
- Align the 2 holes beside the axle with the 2 holes on the clamping collar.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



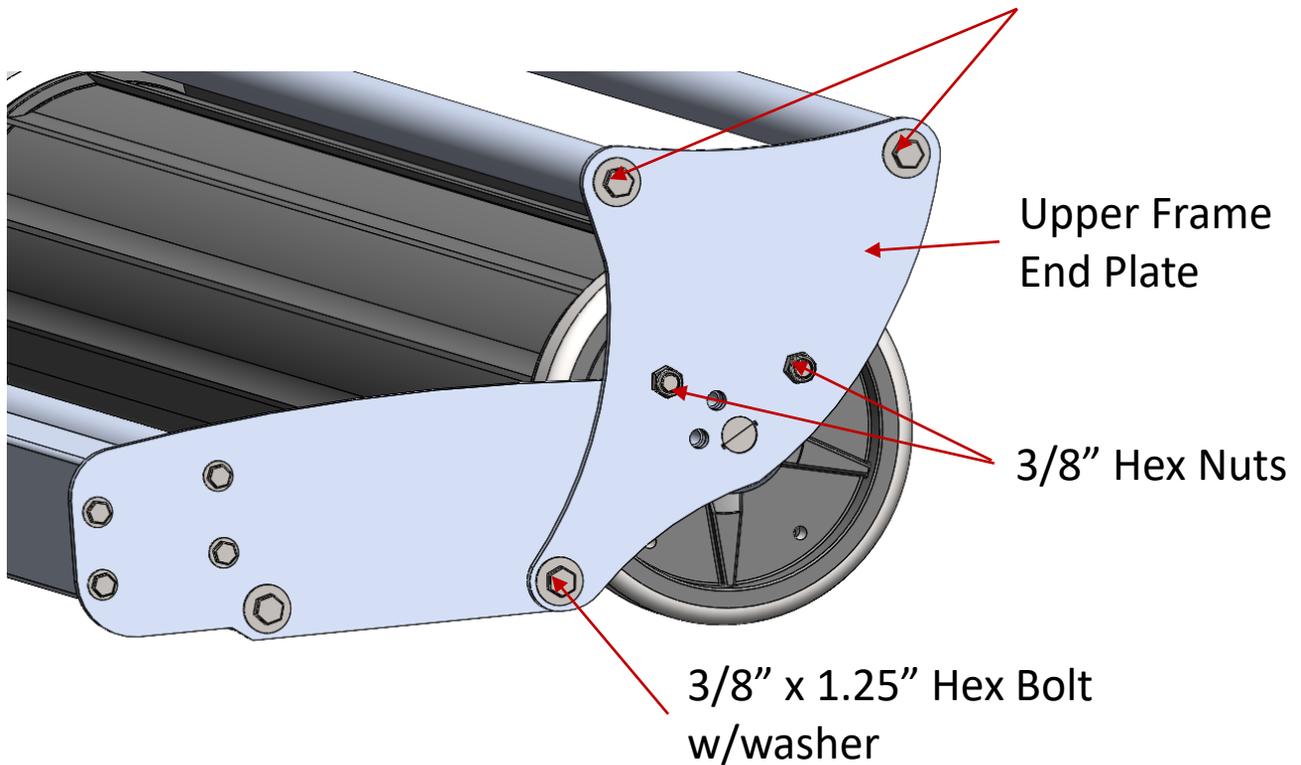
4pcs of 1/4" x 1" Hex Bolts and Nyloc Nuts, with 8pcs of washers

- Install a 3/8" x 1" hex bolt with washer as shown into the front Lower Frame Rod. Do not tighten fasteners.
- Connect the Aluminum Front Frame to the Lower Frame End Plate with 4pcs of 1/4" x 1" hex bolts, 8pcs of washers and 4pcs of nyloc nuts. Do not tighten fasteners.

Note: On each side of the sweeper, after the Lower Frame End Plates have been installed, there should be about 1/4" of Axle sticking out. If there is less than 1/4" (0" for example), you could experience binding when pushing. If more than 1/4" (3/8" for example), the Finned Tube may slip when sweeping.

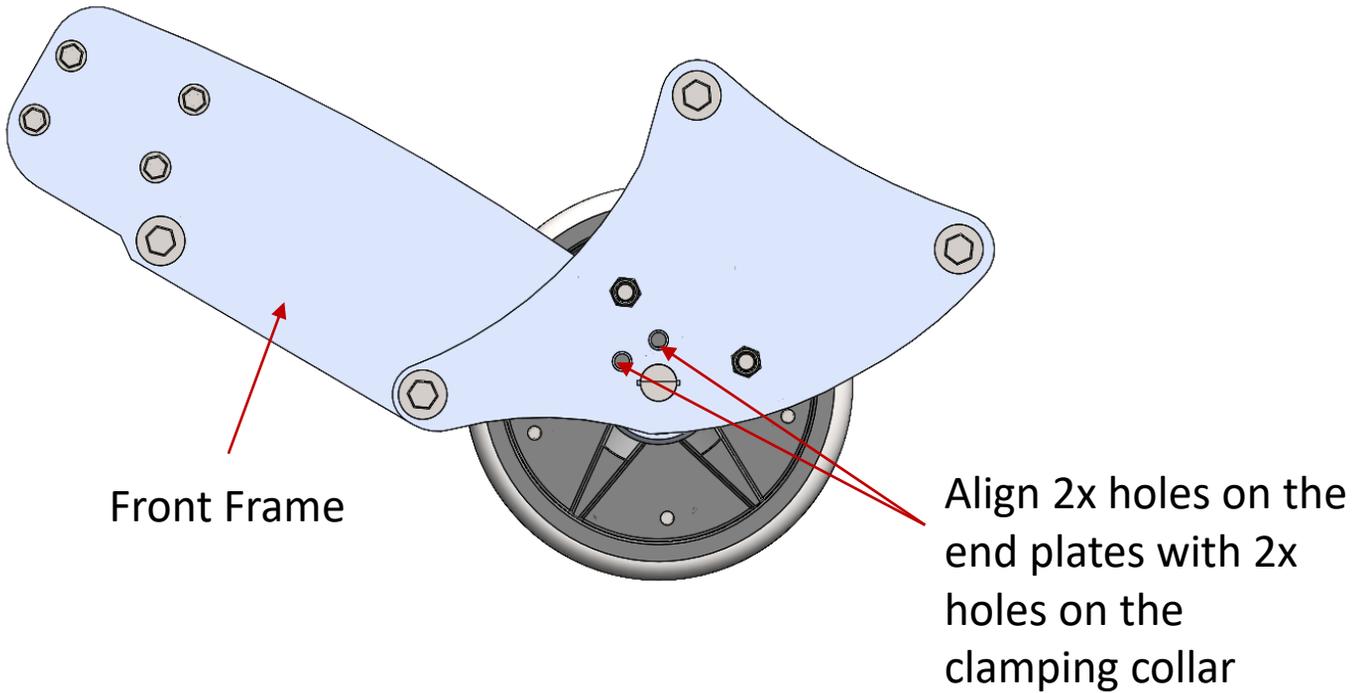
50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation

3/8" x 1" Hex Bolt w/washer into ends of Upper Frame Rods.



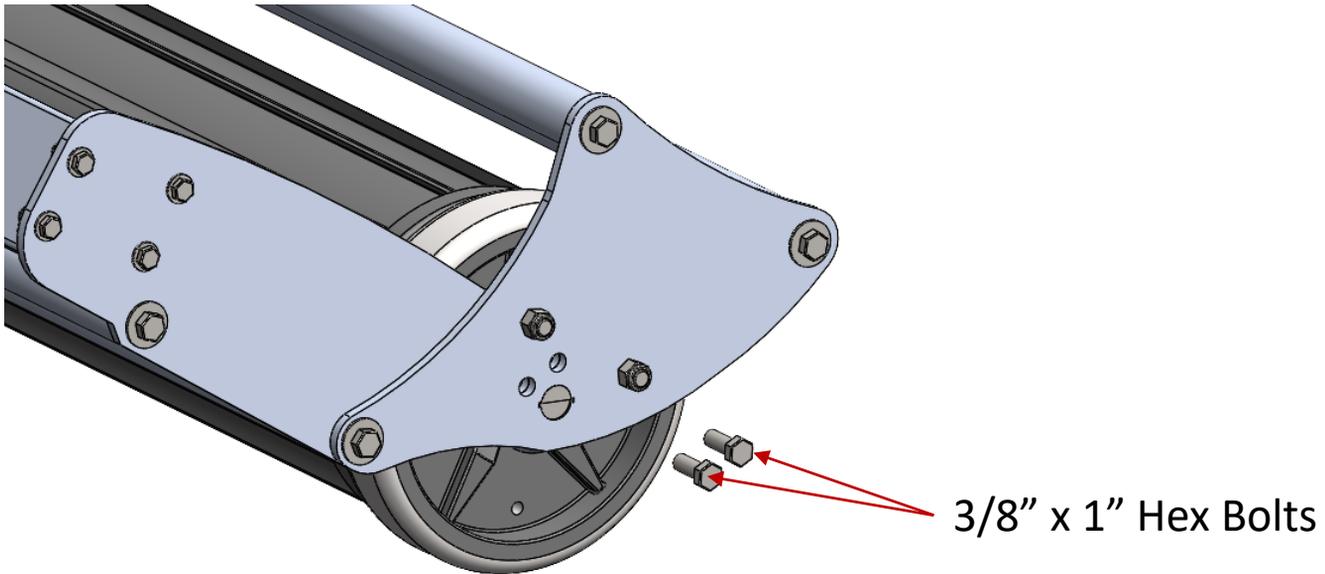
- Install fasteners as shown above - Do not tighten fasteners.
- Repeat all steps for the opposite side of the Atmos Magnetic Sweeper.
- Install the Upper Frame Rods after both sides are assembled.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



- Lift the front frame and align the 2x holes on the end plate around the axle with the 2x holes on the clamping collar.

50.25" Long 6.55" Diameter Extruded PVC Finned Tube Installation



- Bolt with 2pcs of 3/8" x 1" hex bolts.

Tighten All fasteners.

Assembly is now Complete.