

# Assembly Instructions

**AETHER** 



 **Bluestreak**equipment MAGNETICS  
APPLICATION DRIVEN DESIGN

Bluestreak Equipment  
1645 Hwy #3, Delhi, Ontario, Canada N4B 2W6

## What's On the Pallet



Items on the pallet:

- 1 pc Aether Magnetic Sweeper
- 2 pcs 10" flat proof wheels
- 1 box (containing 6 chains and 12 quick clips, 2 aluminum end caps, 2 wheels bolts w/clips)
- 2 pcs outriggers w/ 4" wheels

## What's NOT On the Pallet

- Suspension mounting bracket (if required)

# What's in the Box



- Box items - 6 chains w/12 quick clips
- 2 aluminum end caps
- 2 wheels bolts
- 2 lynch pins
- Quick clean off sleeve clips
- Safety, operating and assembly instructions

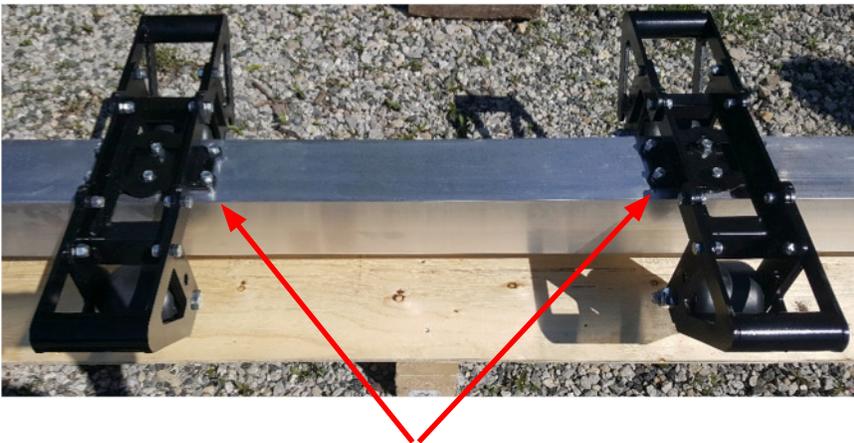
# Assemble the Aether

## Remove black quick clean sleeve from magnet and install outriggers

The Aether ships with the black PVC quick clean off sleeve installed on the magnet. Remove the quick clean off sleeve before proceeding further to prevent damage during installation.



Now remove the 12 nuts (6 per outrigger installation location) from the top of the sweeper using a 9/16" socket.

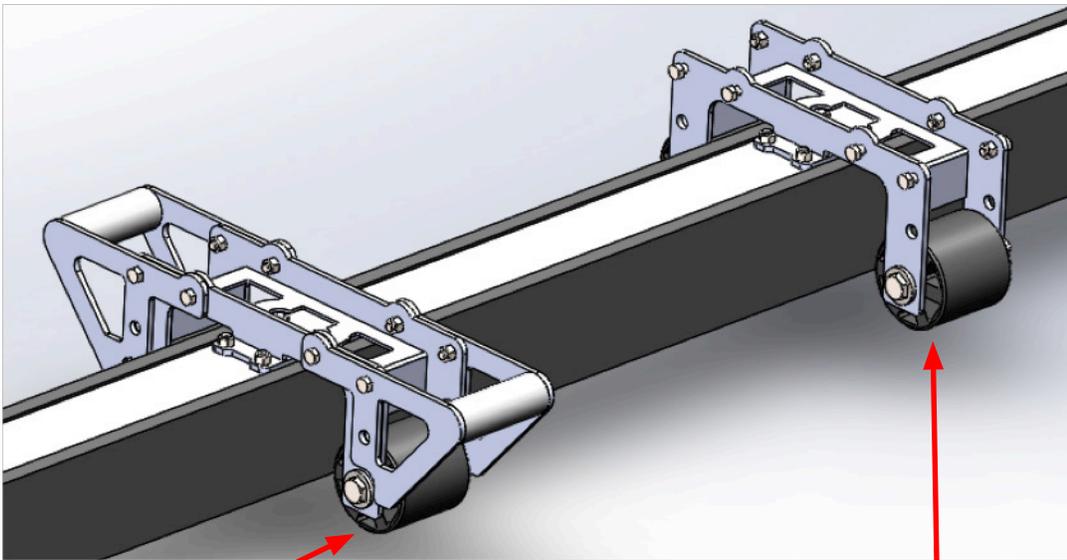


The install both of the outriggers and re-install and tighten all 12 previously removed nuts firmly with a 9/16" socket.

# Assemble the Aether

## Decide if outrigger extenders are needed

Before mounting the Aether under your vehicle a decision can be made to remove the outrigger extenders. The extenders are an aid to get the sweeper over unusually high obstacles. The extenders also make the sweeper larger and may need to be removed for space reasons. Typically we recommend leaving them on, but they can be removed if needed.



Outrigger extenders installed

Outrigger extenders removed

# Get Ready to Install

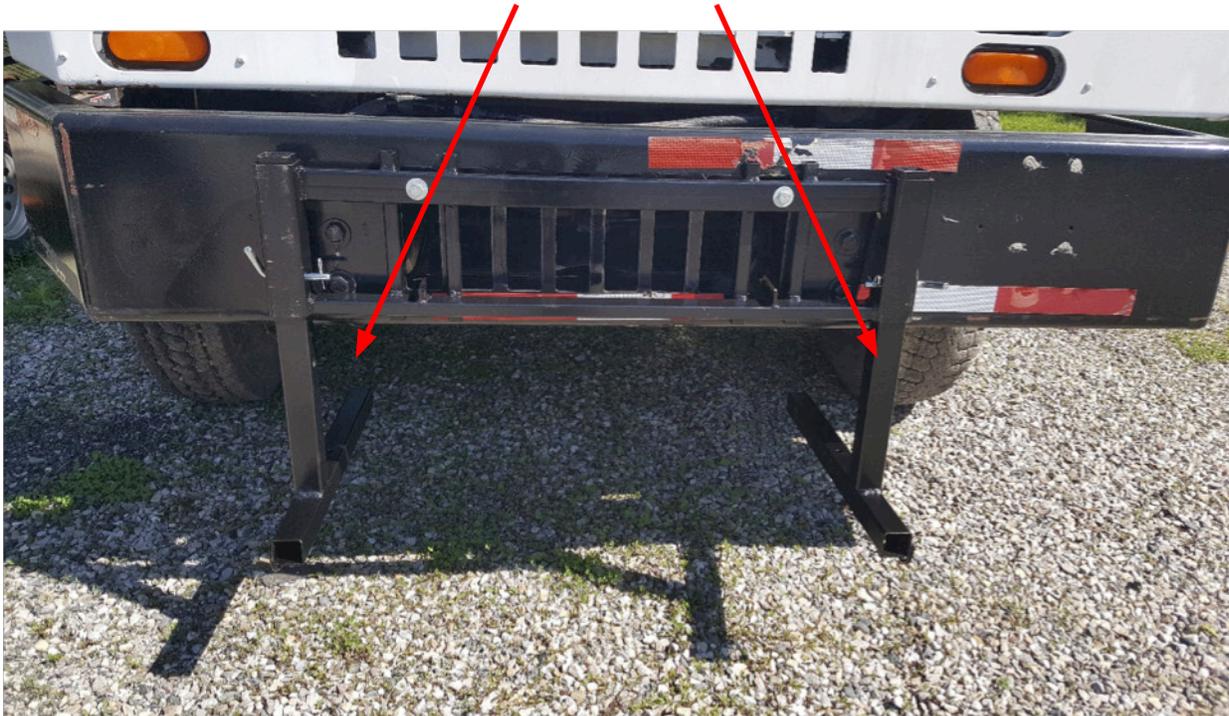
## Mounting requirements

To accommodate mounting the Aether to a vehicle it may or may not be necessary for the purchaser to buy one or more of the hanging bracket accessories offered by Bluestreak or to design and build a custom suspension mounting bracket. If the vehicle already has mounting points a special mounting bracket may not be necessary.

If building a suspension mounting bracket it should have mounting points specific to those available on the vehicle so that the bracket can mount to the vehicle.

The suspension mounting bracket should also have mounting points specific to the Aether. The specifications are given in the next section.

Example of custom suspension mounting bracket built for an Ottawa shunt truck.



# Get Ready to Install

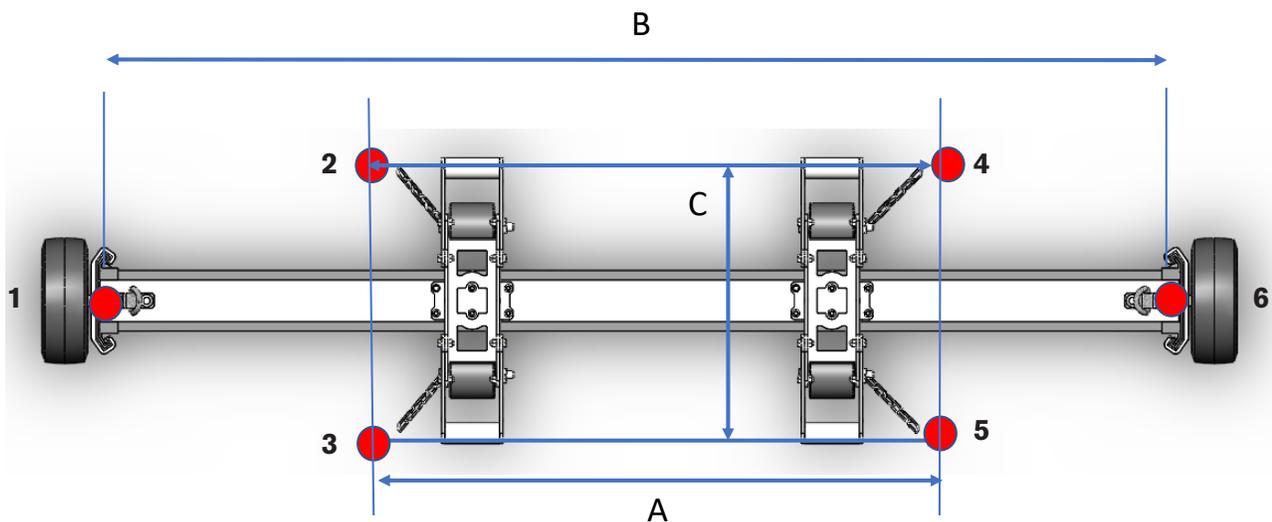
## The Aether mounting points

The suspension mounting bracket should have at least 4 mounting point locations for the Aether. These locations as shown in the image below are #2, #3, #4 and #5

Locations #1 and #6 are not required for additional magnet stability, but recommended for extra safety as it provides more additional points the magnet is suspended from.

The optimal dimensions between suspension mounting points for each sweeper size are in the table below.

These dimensions will provide chain angles that keep the unit in a stable position when operating.



### Optimal dimensions between suspension mounting points

Model	Dimension A (inches)	Dimension B (inches)	Dimension C (inches)
Aether 62"	34"	56"	24"
Aether 74"	38"	68"	24"
Aether 86"	42"	80"	24"
Aether 98"	46"	92"	24"

# Get Ready to Install

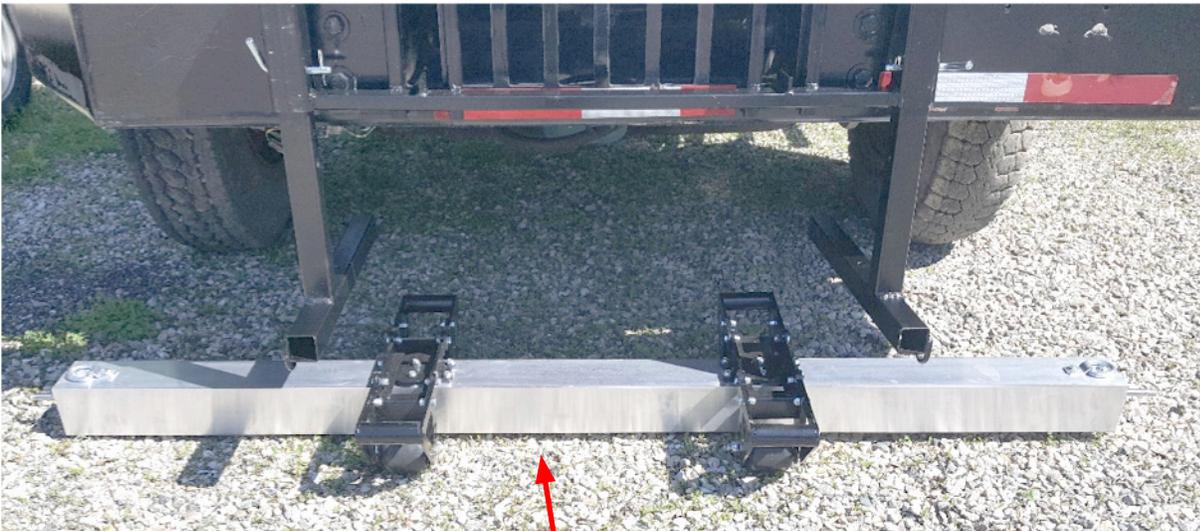
## Example of a suspension mounting bracket

Below is an example of a suspension mounting bracket fit to a vehicle with 4 suspension mounting points in optimal locations for the Aether.



# Installation

## Position the Aether for installation



Set the Aether underneath your vehicle in preparation for mounting

# Installation

## Attaching the Aether to the vehicle or mounting bracket

The Aether comes with 6 hanging chains and 12 quick clips. these will be used to attach the Aether to the mounting bracket.

The Aether has 6 attachment locations:

- 2 magnet D-Ring locations (optional)
- 4 outrigger locations (mandatory)



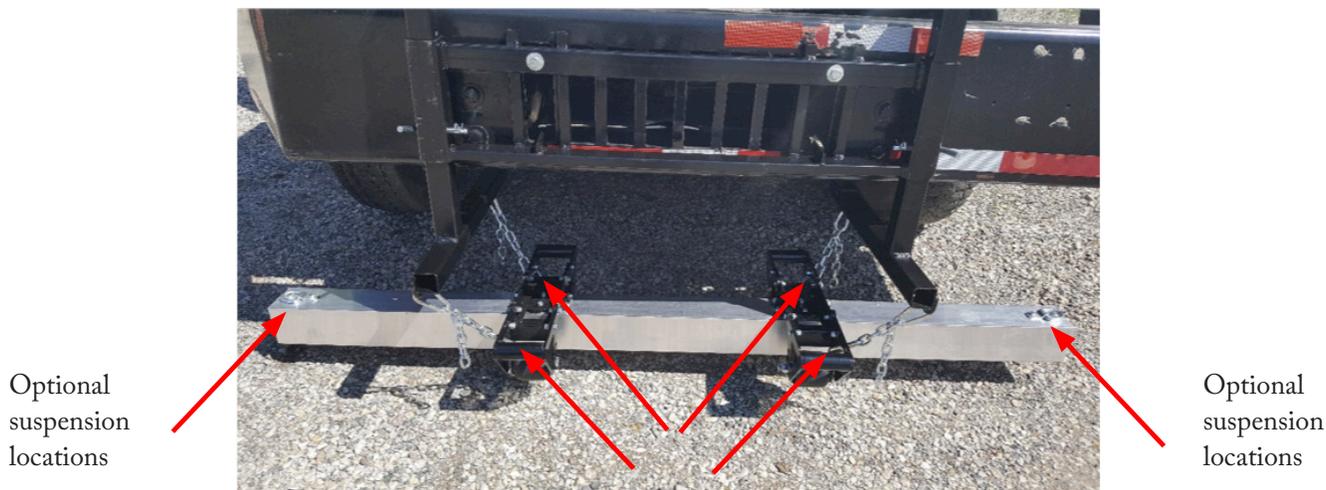
Hanging kit chains

**Magnet D-ring locations:** Use 1 chain and 2 quick clips to attach the Aether at each of the 2 D-ring locations (if applicable).

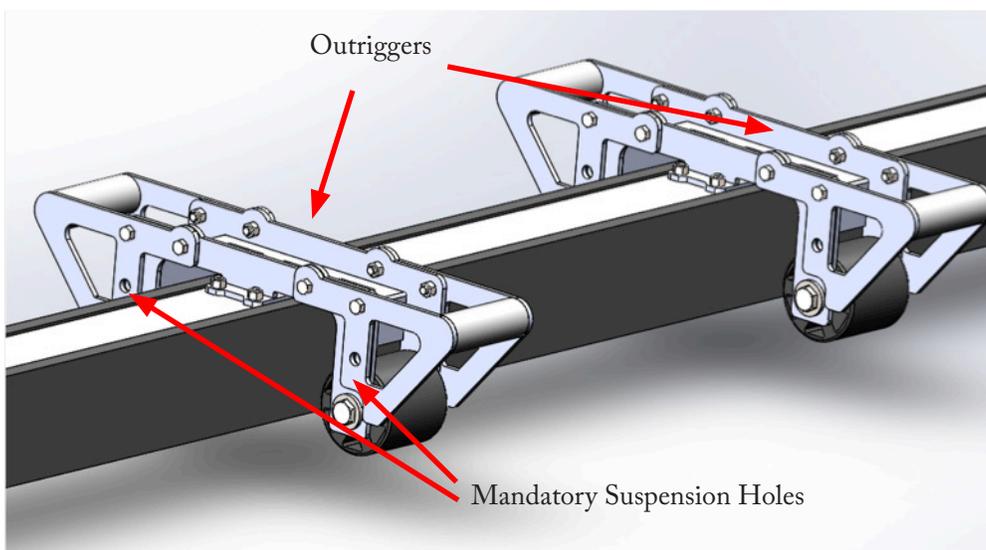
**Outrigger locations:** Use the remaining 4 chains with a quick clip on each end to attach the Aether to the suspension bracket (or suitable points on your vehicle).

# Installation

## Installation - attaching the Aether to the vehicle or mounting bracket (continued)



Suspend the sweeper from the 4 mandatory suspension holes using the chains and quick clips provided. The target height between the bottom of the magnet and the ground is 3 1/8" (with the quick clean off sleeve removed).



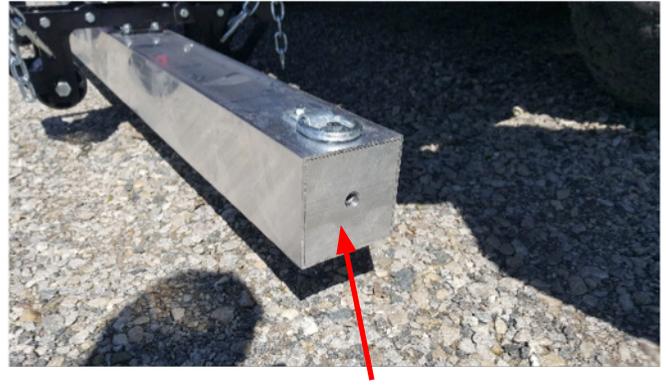
The 2 holes on the outside of each outrigger are the **MANDATORY** suspension locations where the chains (quick clips) need to be connected to the sweeper.

# Assembly

## Install aluminum end caps and wheel bolts

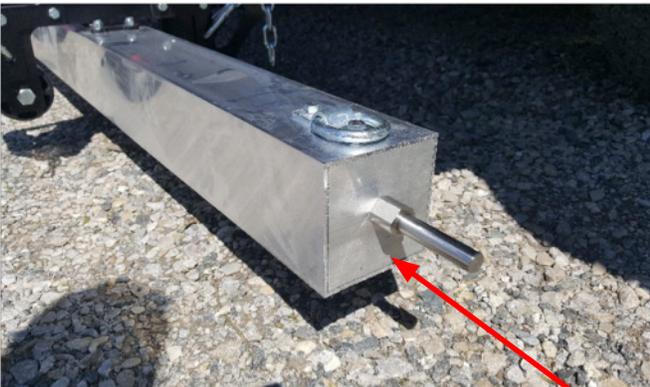


Steel end cap



Aluminum end cap

Install aluminum end cap ovetop of the steel end cap that is inside the aluminum housing. Repeat on opposite end.



Thread in 1 wheel bolt on each end of the Aether magnetic sweeper aluminum end cap. Then tighten the wheel bolt using a 7/8" wrench.

# Assembly

## Install the quick clean off sleeve and the wheels



Slide the quick clean off sleeve over top of the aluminum housing.



Install the plastic clip on each end.



Install the 10" flat proof wheel on the wheel bolt. And insert the lynch pin. Do the same on the other end. **Assembly and installation is now complete.** The wheels of the Aether should be approximately ½" inch off the ground.

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Bluestreak Equipment • 1645 Hwy #3, Delhi, Ontario, Canada N4B 2W6

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