

Assembly Instructions



Bluestreakequipment MAGNETICS
APPLICATION DRIVEN DESIGN

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

Step 1: Unpackage the shipment



Erebus as Shipped on Pallet

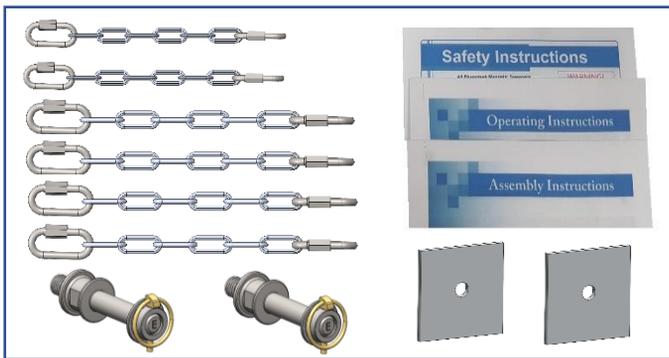
Step 2: Identify what's on the pallet

Packaged on the pallet is a single box with hardware, chain, assembly and operating instructions, and a safety sheet. There are also two steel outrigger frames, and two flat proof wheels on the pallet



View of Pallet once shrink wrap has been removed.

Contents of Box #1

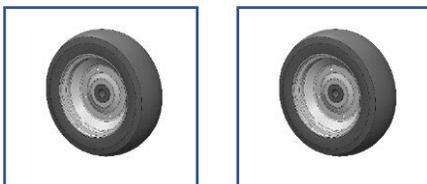


Box #1

- Chain Assemblies w/ quick links - 6 pcs (4 longer, 2 shorter)
- Wheel bolts w/ retainers and lynch pins – 2 sets
- Aluminum End caps – 2pcs

Safety Instructions, Assembly Instructions and Operating Instructions

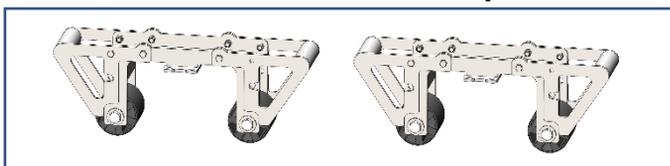
Contents of Box #2 and #3



Box #2 and #3

10.5" Solid Flat Free Wheels w/ UHMW bushings – 2pcs

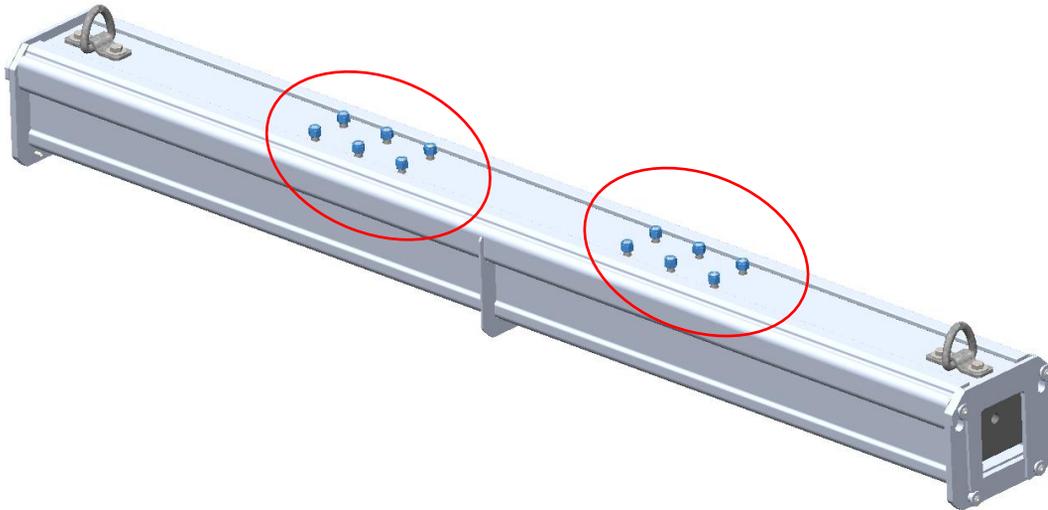
On Pallet Beside Sweeper



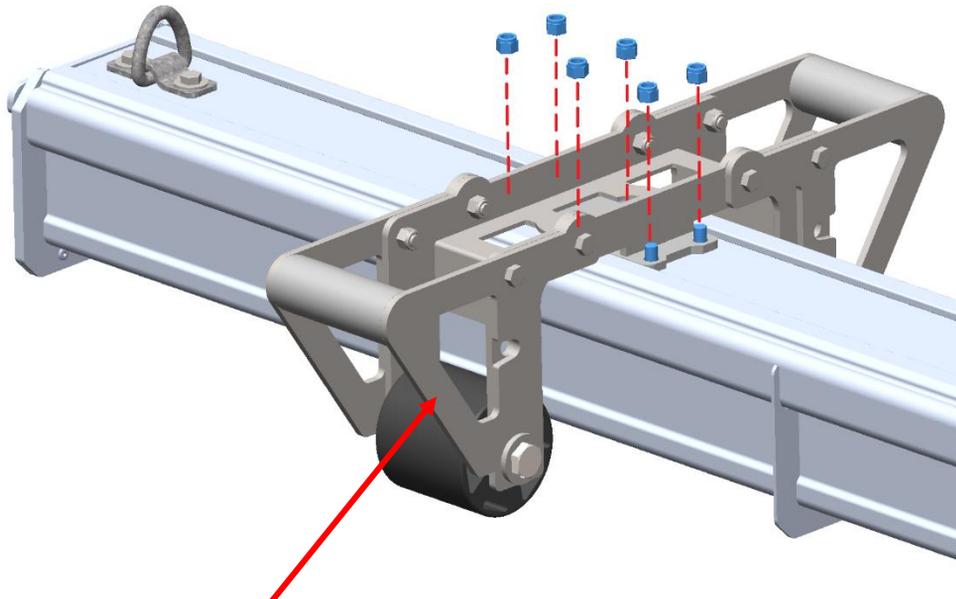
Steel outrigger assemblies – 2pcs

Step 3: Install the outriggers

The Erebus magnetic sweeper comes nearly completely assembled. The steel outrigger frames, wheel bolts and bump wheels are the only components that must be installed. If you purchased the Hanging Bracket D accessory, you still need to follow the steps in this manual.



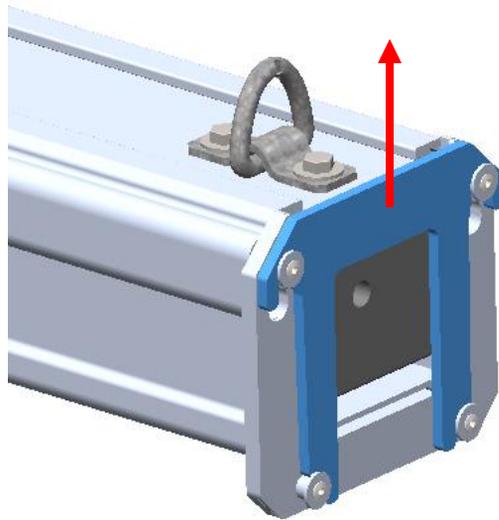
Remove 12 nyloc nuts situated on the top of the magnet assembly.



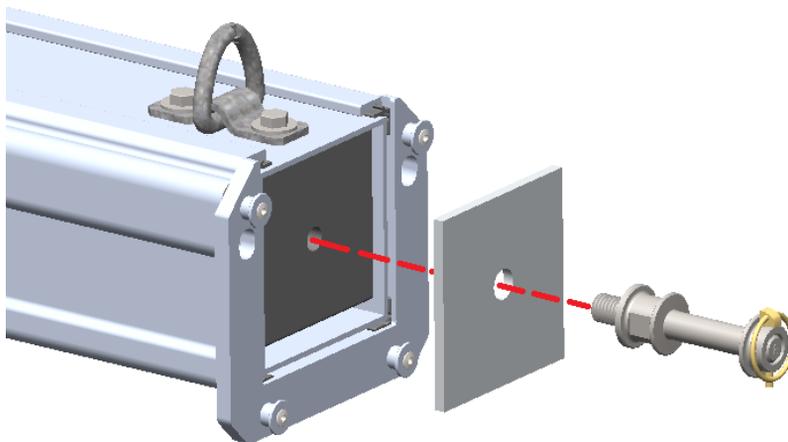
Install one steel outrigger over each set of 3/8" studs. Use the nyloc nuts that were removed in the last step to fix the steel frames to the magnet housing. The outrigger assembly is symmetric so there is no specific way to install it.

Step 4: Install the wheel bolts

Install the wheel bolts and aluminum end caps.



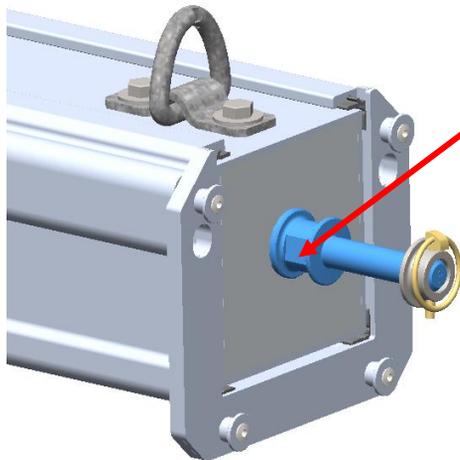
Lift up on the swivel latch on the end of the aluminum quick clean off sleeve. Remove it from the clean off sleeve fully.



Thread the stainless-steel wheel bolt through the hole in the aluminum end cap and then hand thread the wheel bolt into the end cap of the magnet assembly. There is only one way the end cap can go in, so if it is tight you will need to turn it 90 degrees and try again. Repeat for both sides.

Step 4, continued

Install the wheel bolts and aluminum end caps.

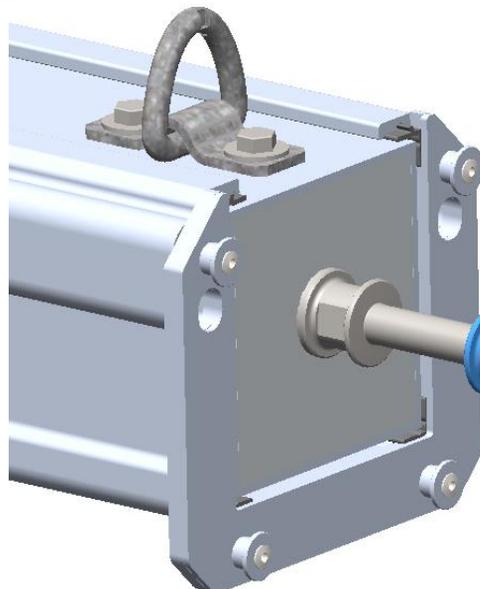


Use 7/8" wrench across flats in wheel bolt to tighten



Serrated Flange Anti-loosen feature

Tighten the wheel bolt firmly using a 7/8" wrench. There is an anti loosen feature on the face of the wheel bolt which will help the bolt stay seated, so it does not need to be extremely tight. Repeat for both sides



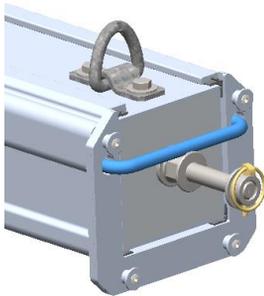
Stainless steel retainer (shown in blue)

3/16" lynch pin (shown in gold)

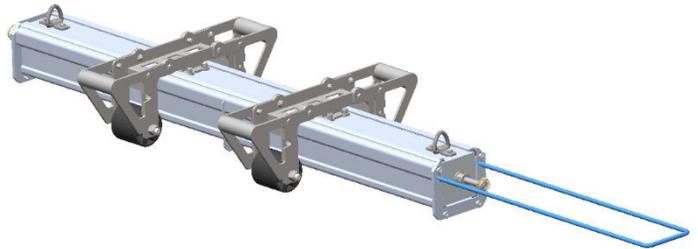
Remove the 3/16" lynch pin and retainer on the end of the wheel bolt. Repeat for both sides.

Step 4: Install the stainless-steel pull handle

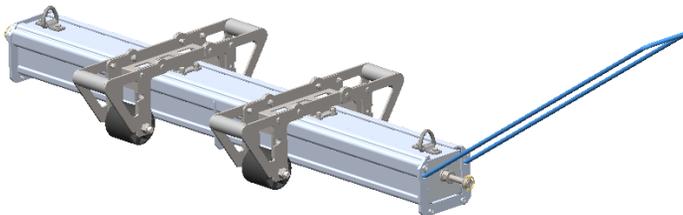
The stainless-steel pull handle was designed to fit inside the quick clean off sleeve and be protected when not in use. It is installed from one side from factory can be used on either side of the Erebus magnetic sweeper. The set of illustrations outline how to remove the handle from the assembly.



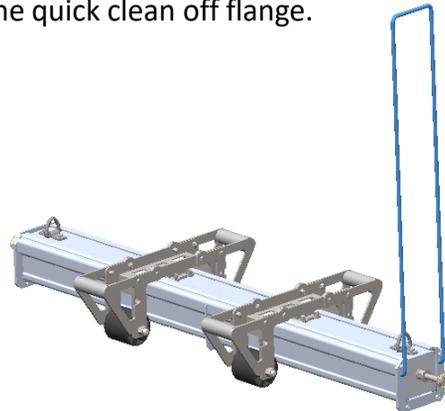
Step5a: Lift the handle over the flange in the wheel bolt.



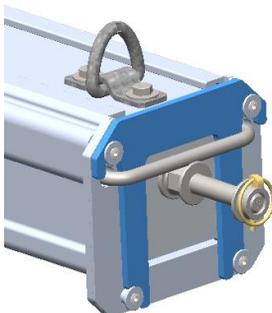
Step5b: Pull the handle out until it bottoms out on the quick clean off flange.



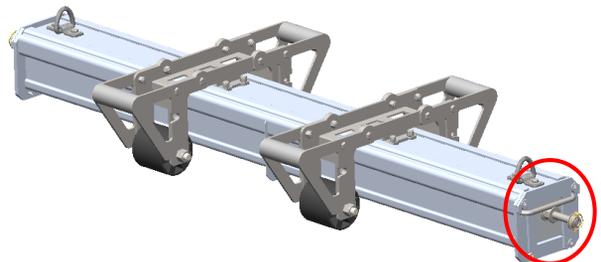
Step5c: Pivot the handle up, As you pivot towards vertical, you will be able to remove the handle from the assembly.



Step5d: Remove the handle. To reinstall, you must have the handle perpendicular to the sleeve so that it goes inside the grooves easily

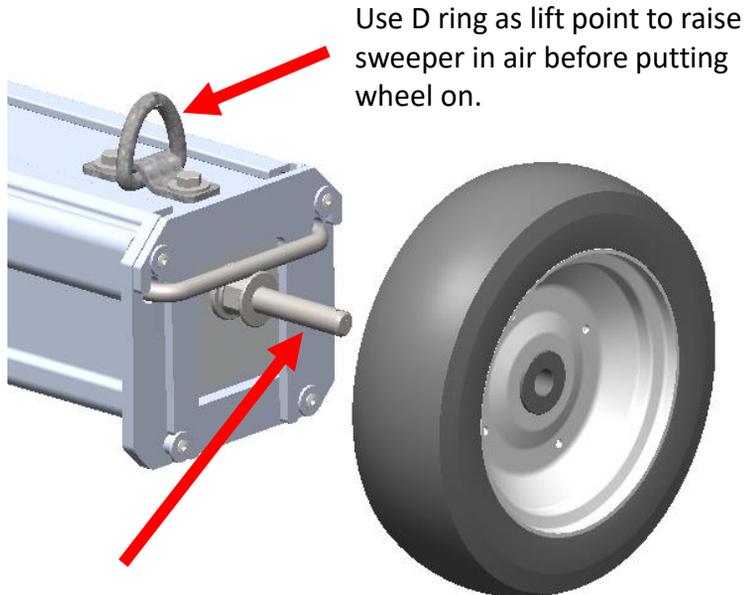


Step5e: Reinstall the latch, and make sure it is seated on the bushings in the end cap.

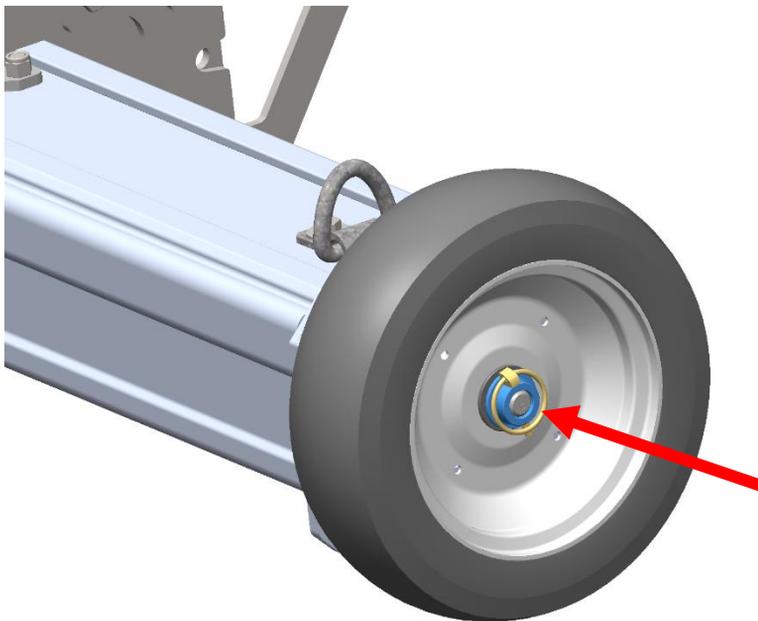


Note: Whenever sweeping, the handle should sit in the groove of the wheel bolt, so that it never contacts the wheels during normal operation.

Step 6: Install the bump wheels



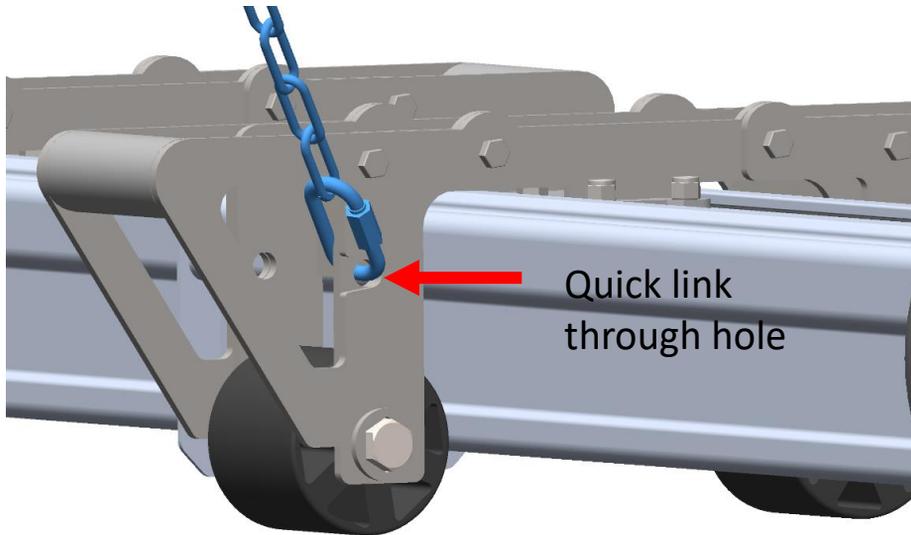
Install the flat proof wheel on the wheel bolt. Note the orientation of the wheel as shown. The bump wheels will not work as intended if the wheel is installed the other way around. Repeat for both sides.



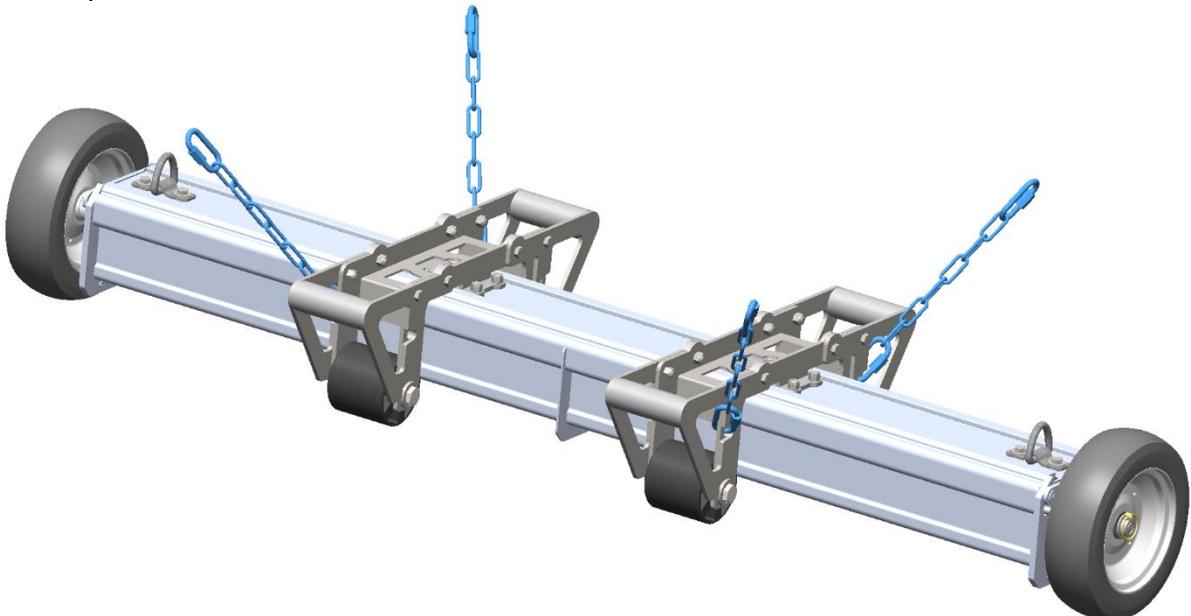
Re-install the retainer and the 3/16" lynch pin. The holes in the retainer and wheel bolt should be aligned. Note: There is a bit of lateral play in the wheel when installed, this was designed this way for optimum rolling behaviour. Repeat for both sides.

Step 7: Attach hanging chain

There are 6 sets of chain with the Erebus sweeper. There are quick links on either end of each piece of chain for connecting it to the steel parts on the sweeper, as well as any hanging apparatus from above the sweeper.



Locate the 4 longer chain assemblies. Unscrew one quick link and hook it through one of the outermost holes in the outrigger frames. The chain is meant to hang at an outward angle (see below)

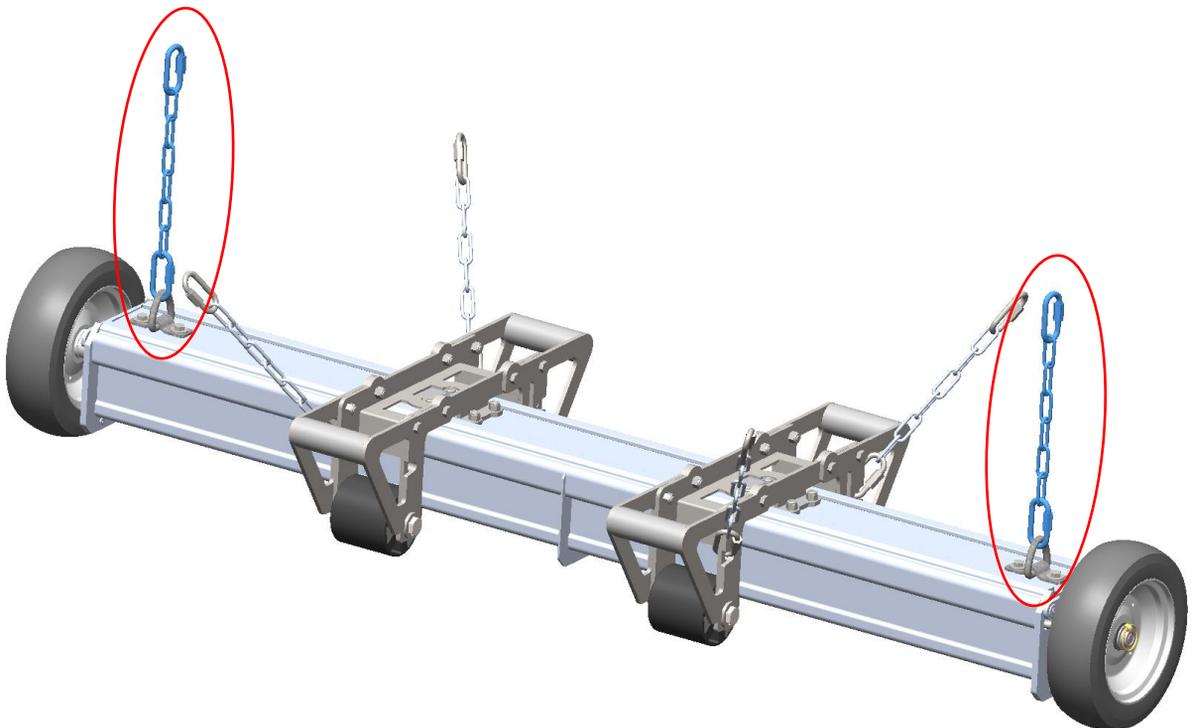


Attach the remaining three chain assemblies in the locations shown. Retighten all quick links in place once looped through the holes.

Step 7, continued

If you purchased Bracket D for the Erebus you will not need to use the remaining two shorter chain assemblies. If this is the case, you will want to skip the remainder of this assembly manual and move to the Bracket D Assembly instruction manual. **If you did not purchase the Bracket D accessory**, continue below.

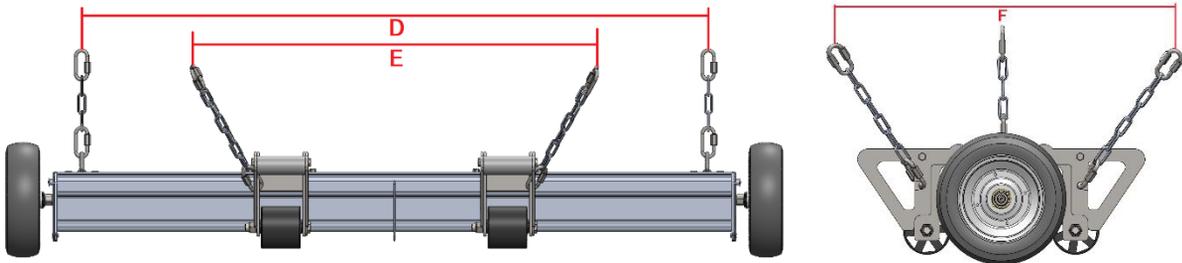
Install the remaining two shorter chain assemblies in the D rings on either end of the sweeper. Again, unscrew the quick links, hook into place on the D ring, and retighten the quick link. The sweeper is now fully assembled and ready to be installed on the prime mover.



Step 8: Install the sweeper on the prime mover

The Erebus Sweeper is intended for use on motor graders, tractors, loaders, telehandlers and other medium heavy equipment. It can also be installed on pickup trucks using the hitch on the rear of the vehicle. The steps to follow outline dimensions and recommendations when installing the Erebus magnetic sweeper.

The dimensions below should be followed when installing the Erebus magnetic sweeper. The chains are installed at an angle for stability. Sweeping height is adjusted by moving the quick link up or down on the chain assembly.



Model	Dimension D	Dimension E	Dimension F
Erebus 62"	57"	35-38"	25-27"
Erebus 74"	69"	39-42"	25-27"
Erebus 86"	81"	43-46"	25-27"
Erebus 98"	93"	47-50"	25-27"

Note: If you purchased the Bracket D accessory, the setup procedure is provided in the Bracket D Assembly Instructions. These dimensions do not apply within the Bracket D instructions as all the chain locations are predetermined.

Step 9: Attach the sweeper

Mounting on the Front or Rear of Prime Mover:

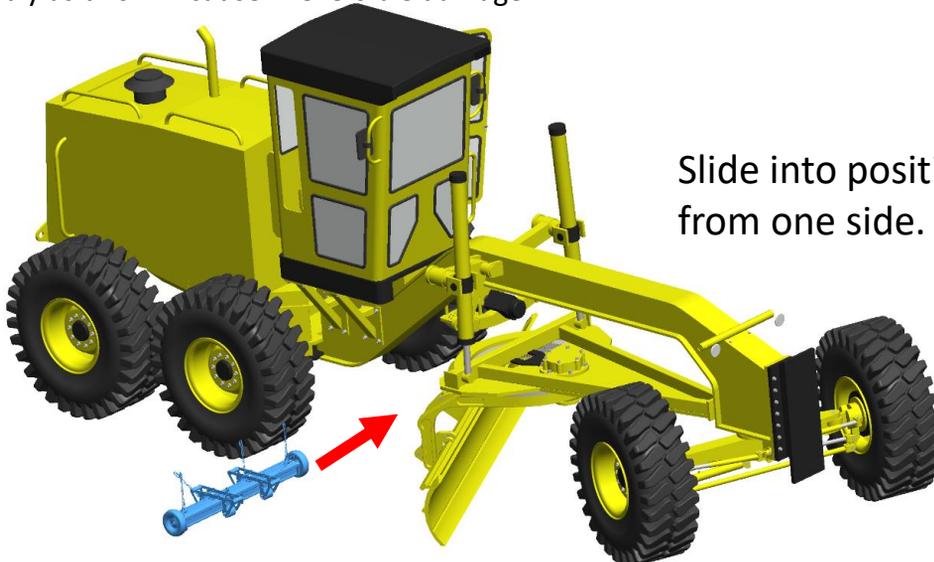
If the Erebus is being mounted on the front or rear, the assembly can be lifted from the bottom using a forklift or other lifting device. Alternatively, lifting straps can be used to raise the sweeper into position.



Keep Erebus
Assembly
close to tip of
forks

Mounting under the main chassis of the Prime Mover:

If the Erebus is being mounted under the body of the prime mover (ex. in the case with mounting the Erebus behind the blade under a motor grader) it must be placed to one side of the prime mover before sliding it underneath into position. Installation will take some time and patience. You may be able to rig the assembly to one fork of a forklift and drive it into position from the side. You should never push directly from the wheel on the end of the assembly as this will cause irreversible damage.



Slide into position
from one side.

Step 10: Set the sweep height

The Erebus was designed for optimal performance in the range of 3-5". The sweeper can be operated at lower sweep heights with better performance; however, this is only recommended when the terrain is flat. Alternatively, the sweeper can be operated at a higher sweep height for rough terrain, however slower travel speed must be used.

Once the Erebus is mounted on the prime mover, measure the distance from the ground to the bottom of the aluminum clean off sleeve. Raise or lower the sweeper to the desired height by adjusting where the quick links attach on the chain. Each link is roughly a $\frac{3}{4}$ -1" adjustment.

3-5" recommended
(from bottom of sleeve to ground)



Complete

The assembly and installation of your Erebus magnetic sweeper is complete, please refer to operating instructions for proper use and operation.

