



BAFFIN

Baffin Assembly, Operating and Maintenance Instructions



Bluestreakequipment MAGNETICS
APPLICATION DRIVEN DESIGN

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Importance of Safety

Accidents can be very costly to human life and property. The operator is the #1 safety device on all types of vehicles or equipment, it is important that the operator read, learn and know all safety recommendations for this product. The user is responsible to their family, friends and co-workers to operate in a safe manner. Ensure that everyone who operates or assists in the operation or maintenance of this product read and understand all the elements required to safely operate this piece of equipment. This attachment has moving parts that include additional dangers.

Operator Safety Training Tips

It is the responsibility of the operator using this attachment to be acquainted with the safe operation. In addition to reading this manual, it is important that the operator be familiar with the vehicle Owners Manual and follow its manufacturer's recommendations!

Before lifting lowering or performing a clean off operation, make sure the area is clear of bystanders or objects.

Machinery parts sometimes have sharp edges. Wear work gloves when moving parts. Always use caution around attachment parts as they often are very sharp.

Never use drugs or alcoholic drinks when operating or servicing this piece of equipment.

Always wear the proper personal protection equipment when servicing or operating this piece of equipment. Never service or operate this attachment with bare feet, sandals, or other light footwear.

Always use eye protection during operation.

Speed Kills! Operate this attachment at a safe working speed. When transporting the attachment, keep a safe speed to avoid losing control of the attachment or prime mover.

Keep proper clearance between the attachment and objects (utilities, large rocks, road barriers, buildings, etc.).

Contacting these objects with the attachment or prime mover could cause a loss of control or damage to the attachment or property.

Before each operation of this attachment, check all hardware (bolts, nuts, pins, etc.) for their proper location and tightness. Stop the engine on the prime mover and set the brake to avoid runaway.

Store this attachment in an area not frequented by children.

Allow no riders on this attachment. Keep all bystanders clear of attachment during operation.

Always replace worn, torn or missing safety decals before operating.

Never operate the attachment when bystanders are within 10 feet (3 m) of the work area.

Operate only during daylight or well-lit artificial light.

If working on public roadway, display a Slow-Moving Vehicle emblem per your State & Local regulations. Turn your flashers on.

Vehicle Requirements (Class 3 or Higher Truck etc...)

Your hydraulic attachment must be connected to a vehicle with adequate horsepower and weight to provide satisfactory results. The weight of the Baffin 95 magnetic sweeper in total is 1410 lbs +/- . A class 3 vehicle or higher is recommended for operation.

Your vehicle must also be equipped with an auxiliary hydraulic circuit that is available on the front section of the vehicle. Locations near the bumper are preferred, but side connections will also work. There should be a switch or handle inside the cab of the vehicle which can allow the auxiliary circuit to be used. The magnetic sweeper is fitted with 2, 3/8" Male NPT fittings for hydraulic actuation. You will require female NPT fittings, as well as hydraulic hose and fittings or quick connect couplers that fit your vehicle.

If your vehicle does not have an auxiliary hydraulic circuit, you will have purchased the optional powerpack attachment. There are couplers included that allow connection to the powerpack.

Make sure your vehicle is in good working condition. Follow the operating instructions found in the manual that was packaged with your magnetic sweeper. Failure to do so could result in minor or serious injury.

Assembly Instructions

Step #1: Unpacking your shipment



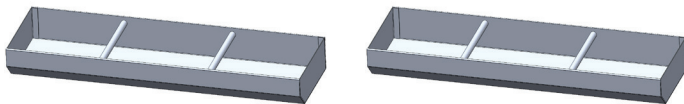
Baffin as Shipped on Pallet - Remove Shrink Wrap and Banding

Assembly Instructions

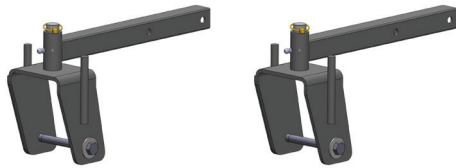
Step #2: What's on the pallet



Sweeper Assembly with Universal Mount Plate: 1pc



Debris Bins: 2pcs



Wheel Yoke: 2pcs



13"x6.5" wide Flat Proof Wheel with UHMW Bearings: 2pcs



Pole Markers: 2pcs



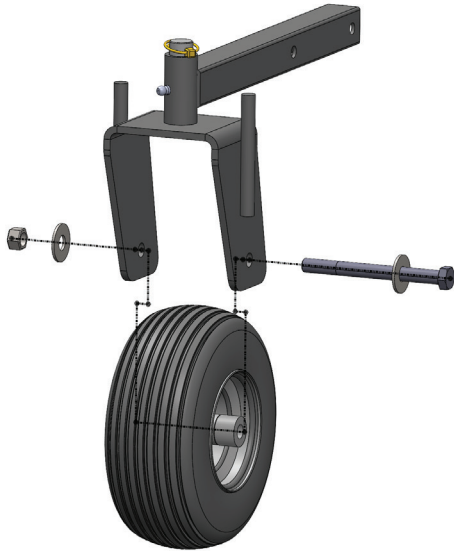
Pitch Adjustment Plates: 4pcs



Optional Accessory:
3500psi Hydraulic Powerpack with Wireless Remote

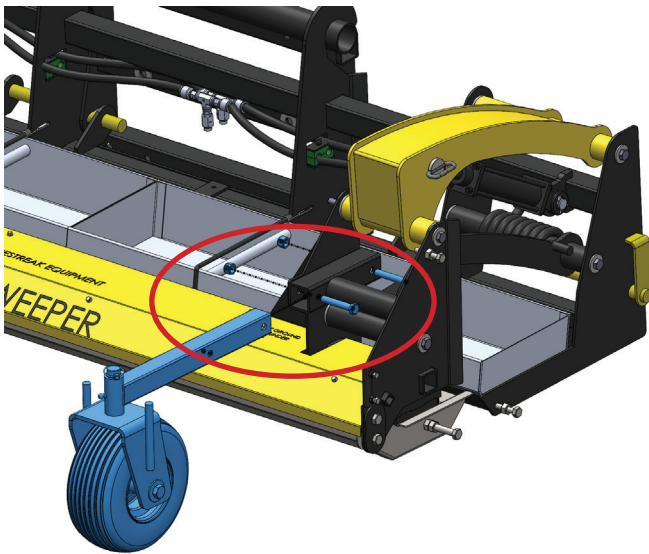
Assembly Instructions

Step #3: Install Caster Wheels



Unpack the wheels from the boxes on the skid and remove the bubble wrap around the caster yoke assemblies.

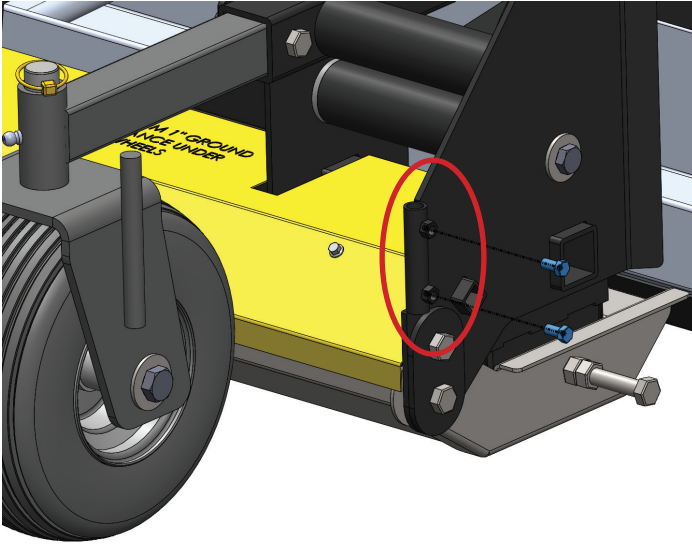
Install the wheel into the yoke assembly by using the 3/4" x 8" long hex bolt that is bolted on the caster wheel yoke. Use a 1 1/8" wrench to tighten the fasteners.



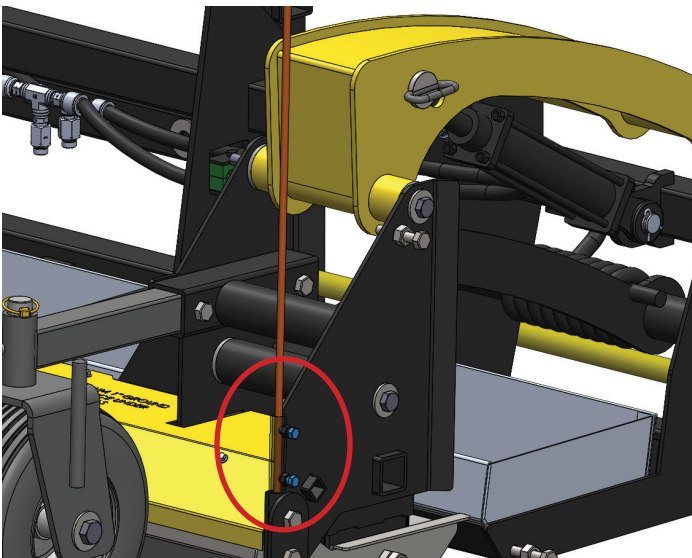
Remove the 2pcs 5/8"-11 x 3.5" bolts and 2pcs 5/8"-11 Nyloc nuts as shown in the red circle using a 15/16" wrench. Insert one wheel assembly into the 2.5" receiver and fasten using the same bolts that were removed previously. One assembly should be bolted into each side. Tighten the bolts fully.

Assembly Instructions

Step #4: Install the Pole Markers



a) Back off the 4pcs 3/8" x 3/4" long hex bolts with a 9/16" wrench, located on the left and right front of the sweeper. There are 2pcs on each side.

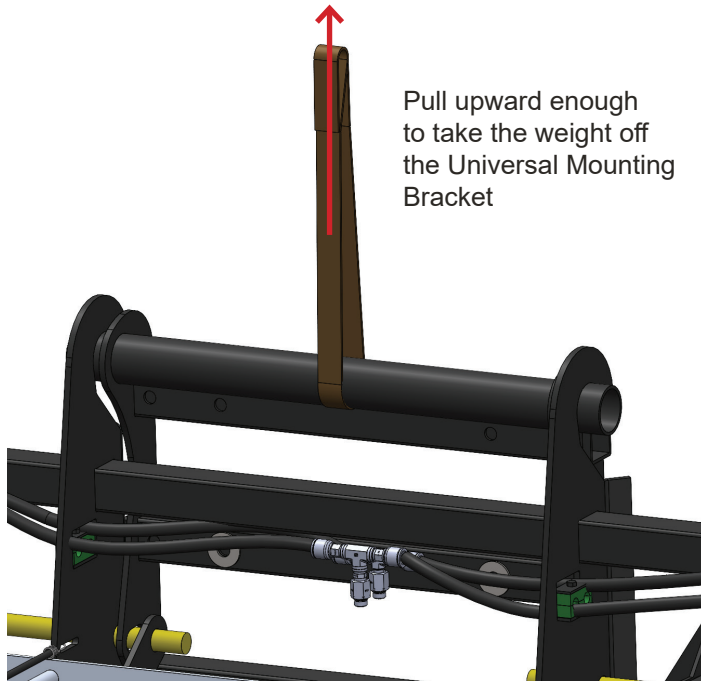


b) Insert the pole markers into each side of the sweeper and tighten fully. Ensure the pole marker does not extend past the bottom of the round tube.

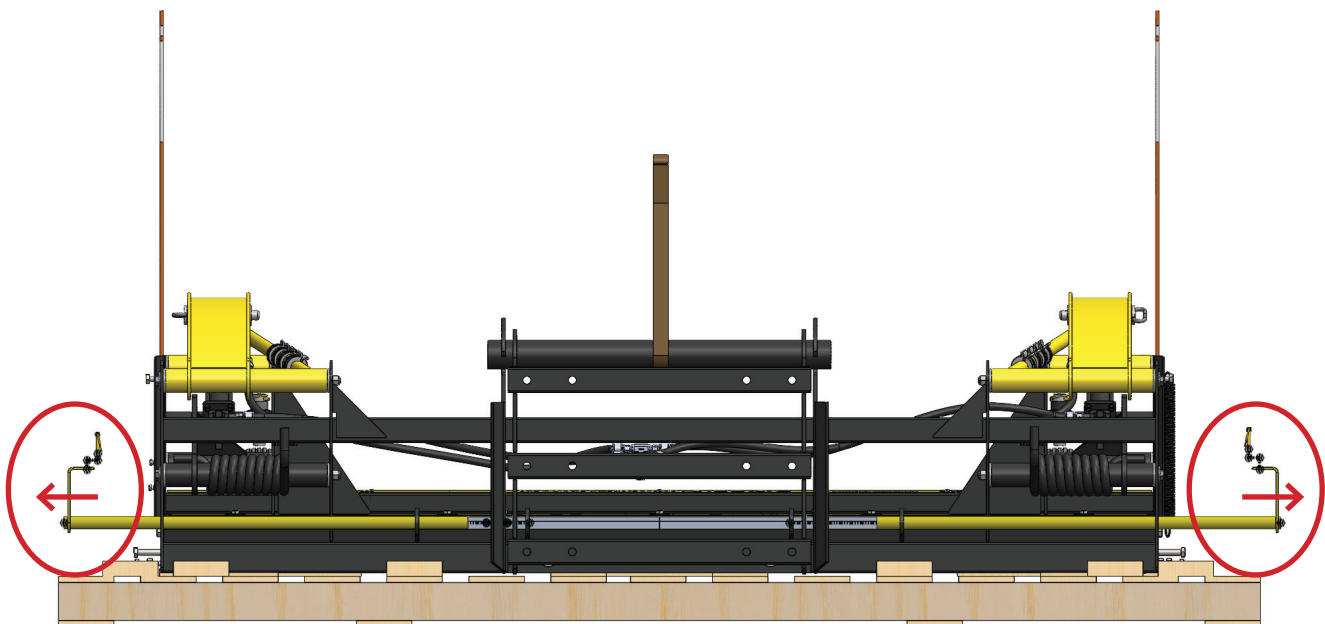
Note: Do not overtighten these bolts as the fiberglass poles will split.

Assembly Instructions

Step #5: Remove the Universal Mounting Plate



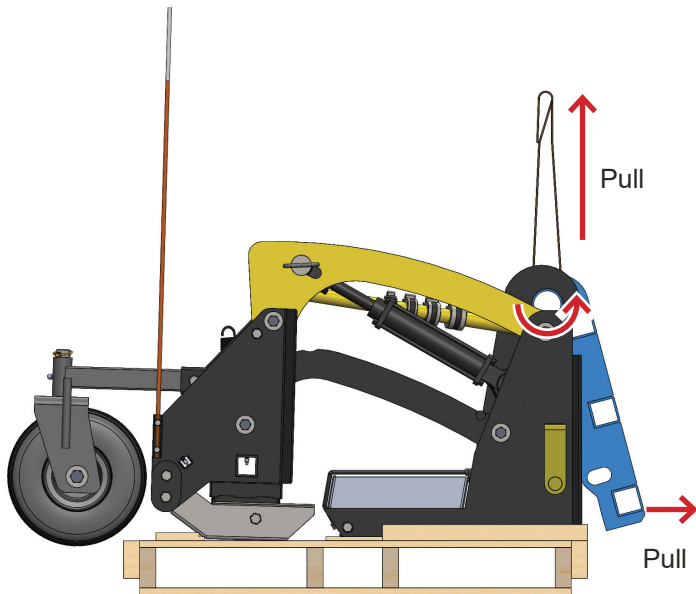
a) Attach a lift strap in the middle of the Universal Mounting Plate. Slightly engage the strap using a forklift or hoist. Do not lift or apply too much pressure or you will begin to lift the sweeper off the pallet.



b) Pull the 5/16" lynch pins from the latch rods, located at the back left and right corners of the sweeper. Proceed to disengage the latch rods by pulling on the handles on either end of the plate. They do not need to be fully removed, just enough to be outside the limits of the universal mounting plate.

Assembly Instructions

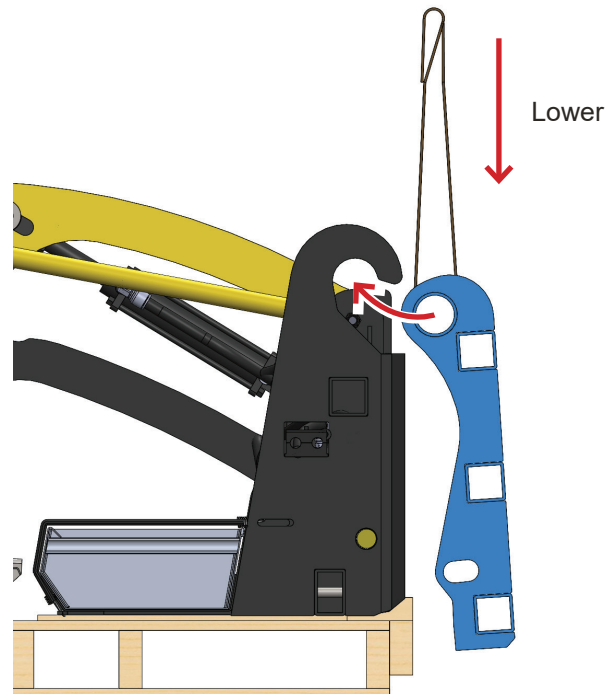
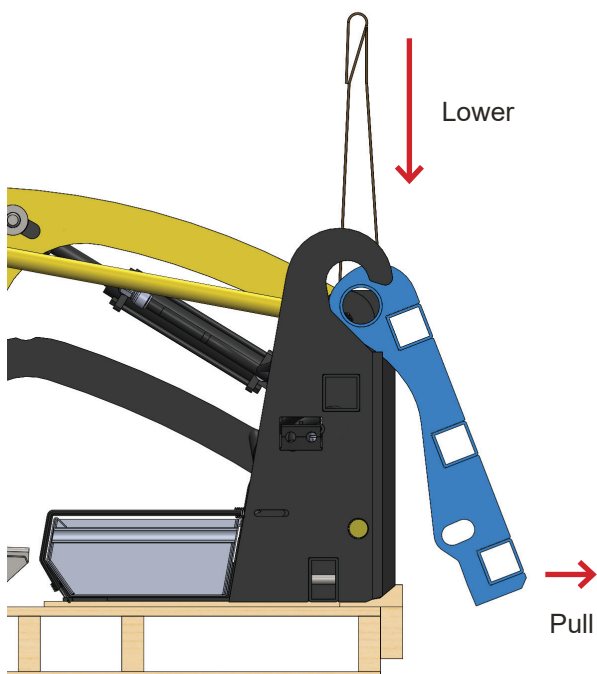
Step #5 continued



c) Grab the Universal Mounting Plate from the bottom tube and pull backwards to pivot it away from the main frame. Keep the strap taut.

Note: The weight of the Universal Mounting Plate is approximately 75 lbs., so caution should be taken when working around the plate. Proper PPE including safety shoes and work gloves should be worn to avoid injury.

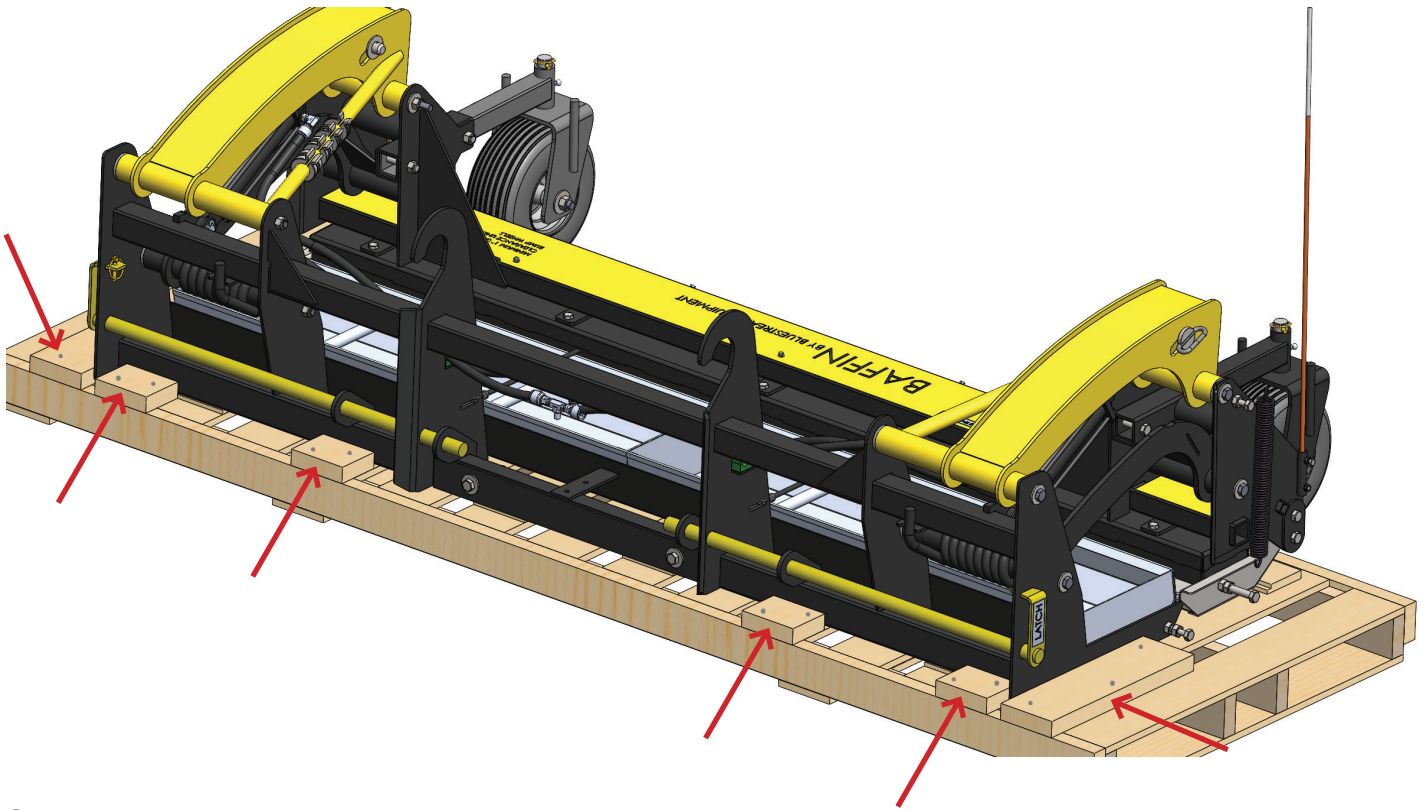
d) Once the bottom edge is outside the limits of the pallet, the Universal Mount Plate can be lowered and removed from the back of the sweeper. Use the slotted profile to guide the plate out of the sweeper frame. You may set it on the ground or another pallet as it will be required in the next steps.



Assembly Instructions

Step #5 continued

e) Remove 6pcs wood blocks from the back and sides of the pallet using a Robertson bit. You may discard the blocks. This is required for smooth mounting of the sweeper to the Universal Mounting Plate.



Step #6: Attach the Universal Mounting Plate to the Truck

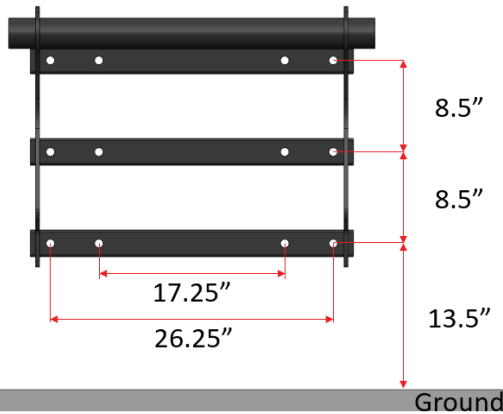
Please note it is likely that some fabrication work is required to mount the plate on the vehicle. There are 12 predrilled mounting holes that can be used for attachment. These holes require 3/4" bolts. If you are welding components directly to the Universal Mounting Plate, you must grind the paint down in the areas you wish to weld in order to have a secure attachment. It is recommended that paint be reapplied to welded areas and additional parts to avoid rusting or corrosion. It is also recommended to use 3/4" washers on either side of the bolt connections if they are used, in order to distribute the weight across the steel tubes.

It is important to mount the Universal Mounting Plate in the center of the vehicle. It should not be mounted too far from the left or right of center, as this will increase the probability of the sweeper extending past the width of the vehicle.

The Universal Mounting Plate is designed to give 11.5" of ground clearance at the front of the vehicle. This position should not be altered to maintain the form and function of the Baffin magnetic sweeper.

Assembly Instructions

Step #6 continued

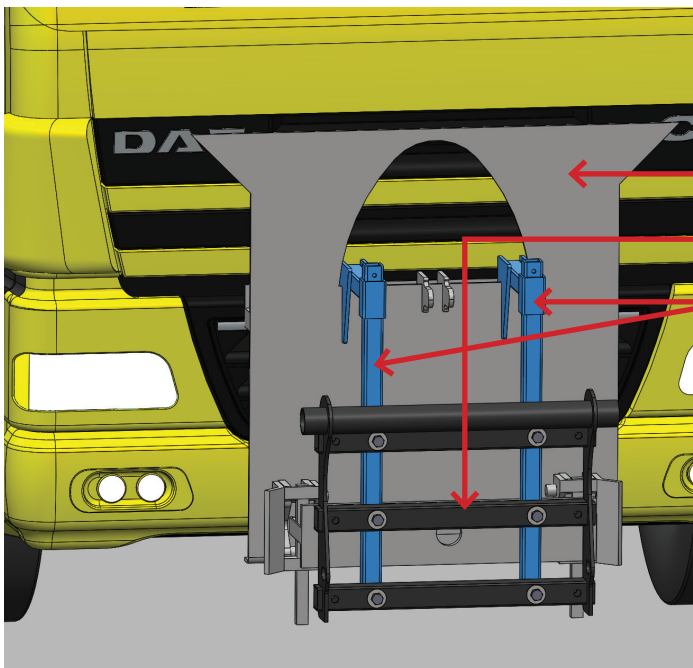


When parked on a level surface, the locations of the holes with respect to the ground are shown in the figure below. Keep these dimensions in mind when fabricating parts to attach the Universal Mounting plate to the vehicle. It is not necessary to get the angle correct as it can be adjusted in the next step.

It is recommended to check the dimensions once the Universal Mounting Plate is mounted to the truck. This will ensure performance is as designed. The dimension of 13.5" from the ground to the bottom set of holes can be +/- 1/4" without having a large effect on the performance of the sweeper. If the deviation is larger than +/- 1/2" it is recommended to adjust the plate so that it is within the specified tolerance.

Sample Bracket Configuration

An illustration of a Viking™ Snowplow Mount is shown below in grey. A bracket system (in blue) was designed to be able to mount the Baffin Magnetic Sweeper to the truck, without having to weld to the Universal Mounting Plate. More pictures can be seen on the following page.



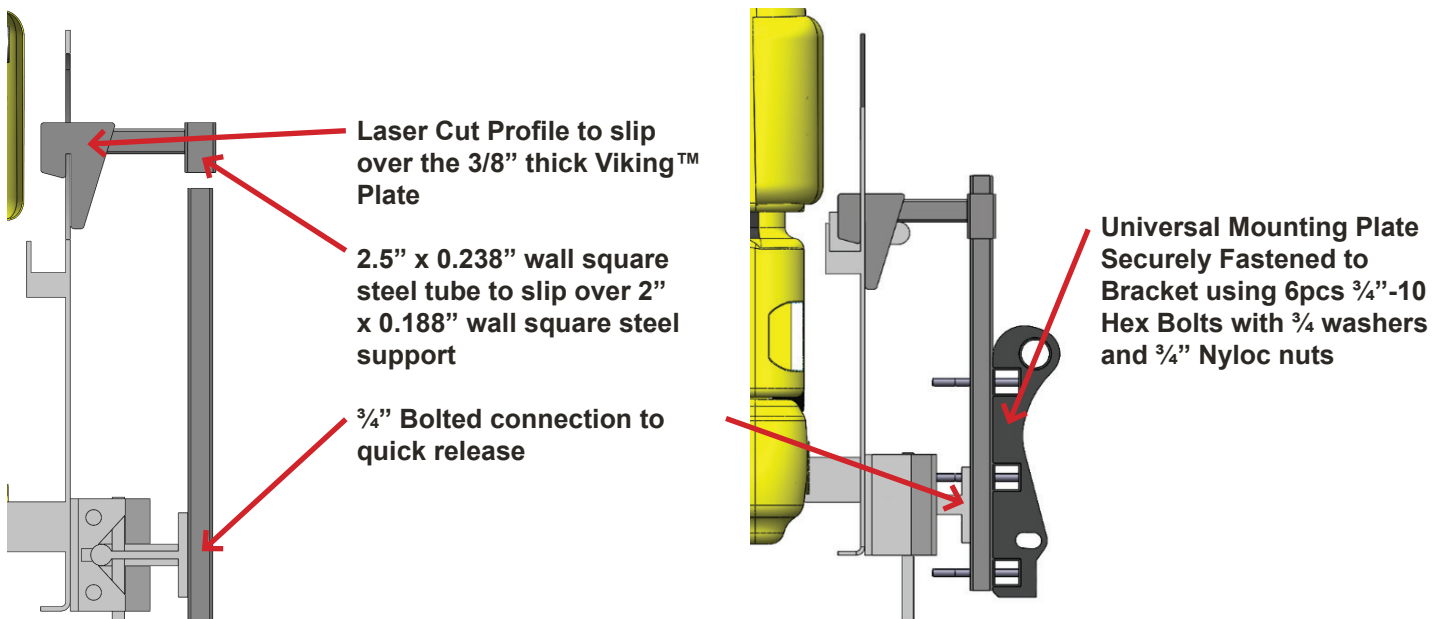
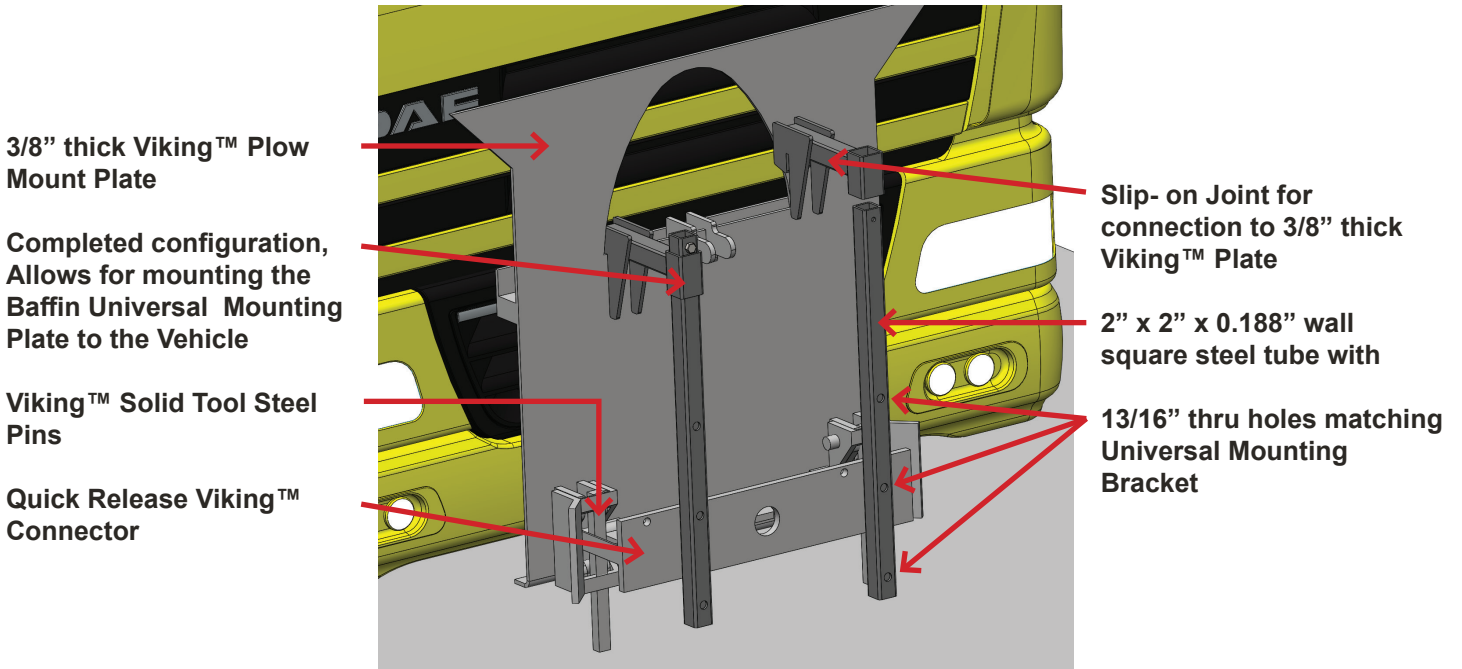
Viking™ Snowplow Mount

Baffin Universal Mounting Plate

Sample mounting apparatus to connect Baffin Universal Mounting Plate to existing Viking™ Snowplow Mount

Assembly Instructions

Step #6: Sample Bracket Configuration continued



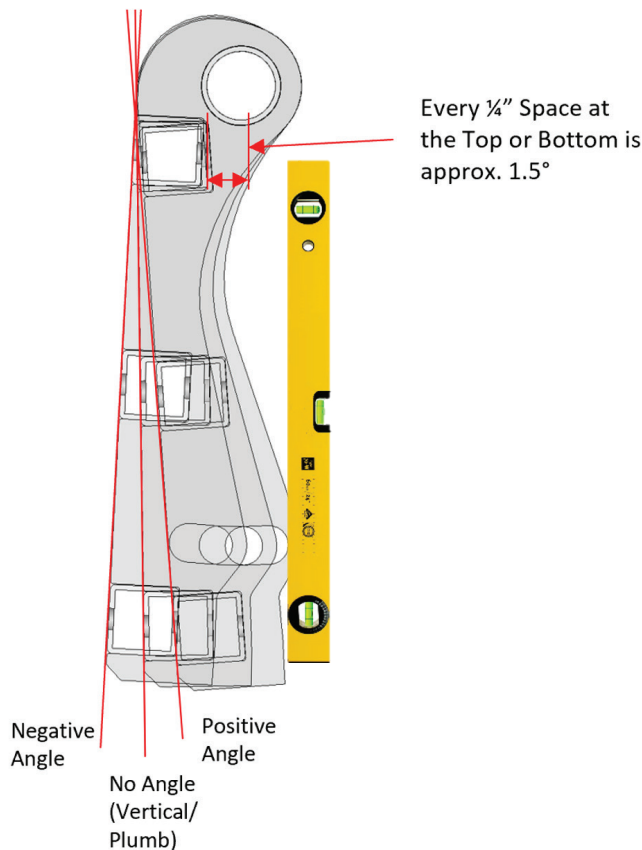
Assembly Instructions

Step #7: Check the 'Angle' of the Universal Mounting Plate

Once the Universal Mounting Plate is on the vehicle, use a 2ft or 4 ft bubble level to check the angle on the Universal Mounting Plate. Keeping the level vertical, move the level toward the 3 horizontal tubes on the Universal Mounting plate until it touches either the top or bottom tube as shown in the diagram below.

If the level is contacting the Universal Mounting plate on the top horizontal tube, with open space between the level and the bottom horizontal tube, your bracket has a negative angle. If the level is contacting the Universal Mounting Plate on the bottom horizontal tube, with open space between the level and the top horizontal tube, your bracket has a positive angle. In general, each $\frac{1}{4}$ " space corresponds to 1.5 degrees of angle.

With the level completely vertical, measure the distance between the level and the horizontal tube it is not touching. Proceed to the next page.



This specific illustration shows the level contacting the Universal Mounting plate on the bottom horizontal tube, with open space between the level and the top horizontal tube, meaning the bracket has a positive angle.

Negative Angle: With the bubble level completely vertical, the level will touch the top square tube and will not contact the bottom square tube.

Positive Angle: With the bubble level completely vertical, the level will touch the bottom square tube and will not contact the top square tube.

Assembly Instructions

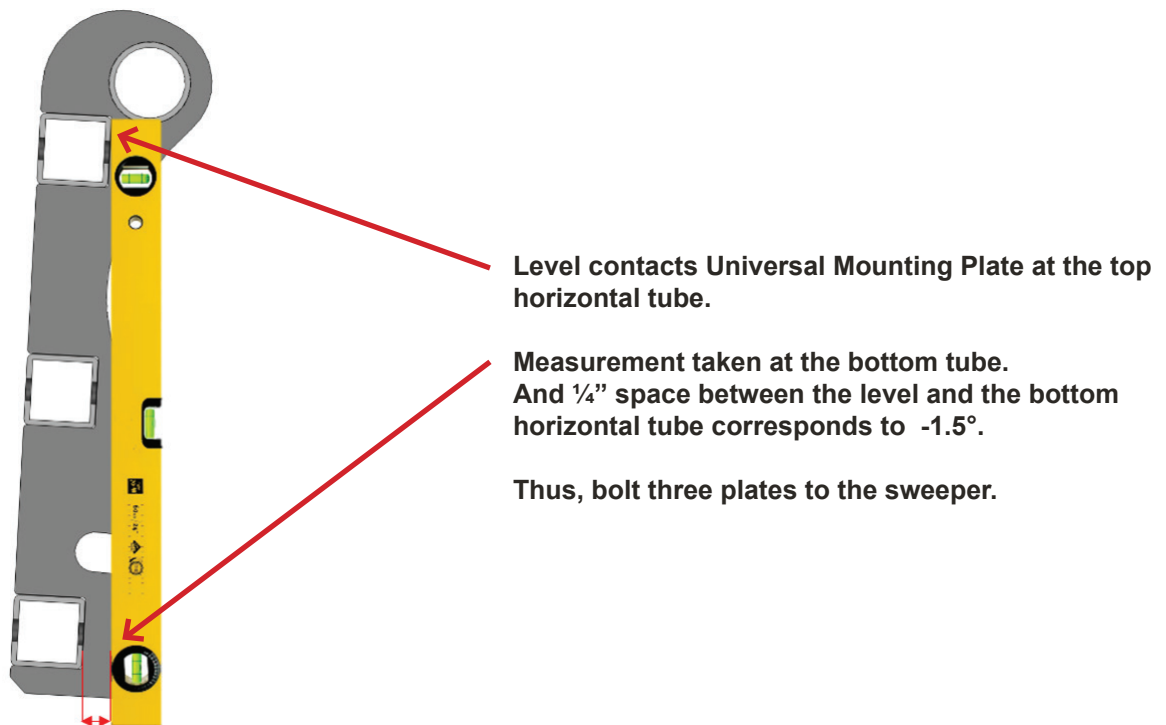
Step #7 continued

Using the measurement taken from the previous page, and where you took that measurement, on the chart below look up first where your measurement was taken from, and then look up the measurement you took of the distance between the level and horizontal tube. Then from that line of the chart identify the number of plates required.

Included with the sweeper are 4, ¼" thick steel plates that offer a solution to keeping the Baffin sweeper as close to level as possible when finally mounted. They can be found inside one of the debris bins and are wrapped in cardboard.

| Angle of Universal Mounting Plate [°] | Measurement [inches] | Where Measurement is Taken | Number of Plates Required |
|---------------------------------------|----------------------|----------------------------|---------------------------|
| -3 | 1/2" | Bottom Tube | 4 |
| -1.5 | 1/4" | Bottom Tube | 3 |
| 0 (vertical) | 0 | N/A | 2 |
| 1.5 | 1/4" | Top Tube | 1 |
| 3 | 1/2" | Top Tube | 0 |

Example: If the level is contacting the Universal Mounting Plate on the top horizontal tube and there is a 1/4" of space between the level and bottom horizontal tube, then there is a negative angle of 1.5 degrees and three plates are required. The illustration below and chart above shows this.

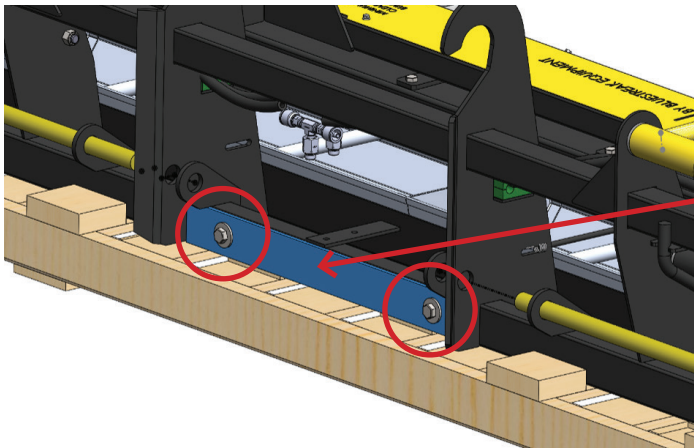


The following page discusses where to bolt the plates on the main frame of the Baffin, so that the angle of the Baffin magnetic sweeper is optimal.

Assembly Instructions

Step #8: Adjust the Sweeper Level Based on Measurements

Remove the 2pcs 5/8"-11 x 4" long hex bolts located at the rear of the sweeper. Attach the quantity of plates that was determined on the previous page. One washer should be used on each side. Tighten the two bolts fully using a 15/16" wrench.



Fasten the respective quantity of plates on the backside of the Baffin sweeper, according to the chart on the previous page.

The sweeper is now adjusted to compensate for the angle of the mounting bracket.

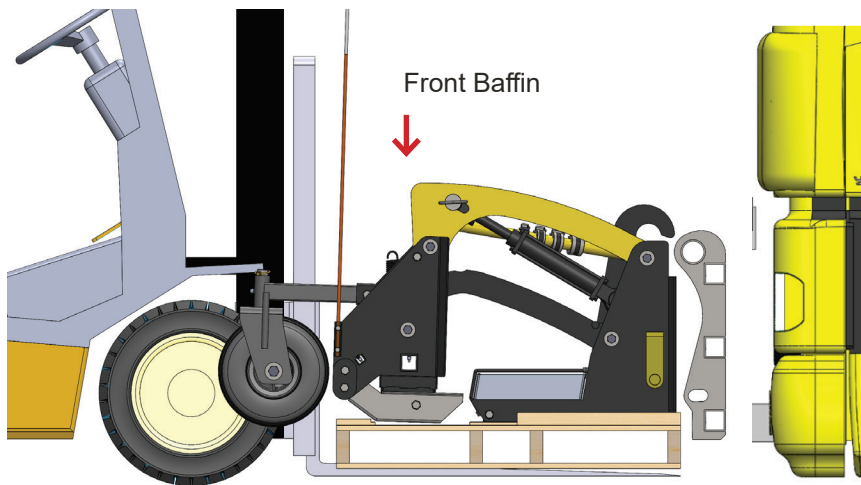
When mounted, the sweeper is designed to sit nearly level, which allows the sweeper to operate as designed with maximum performance.

Installation Instructions

Step #1: Connect Sweeper to Universal Mounting Plate

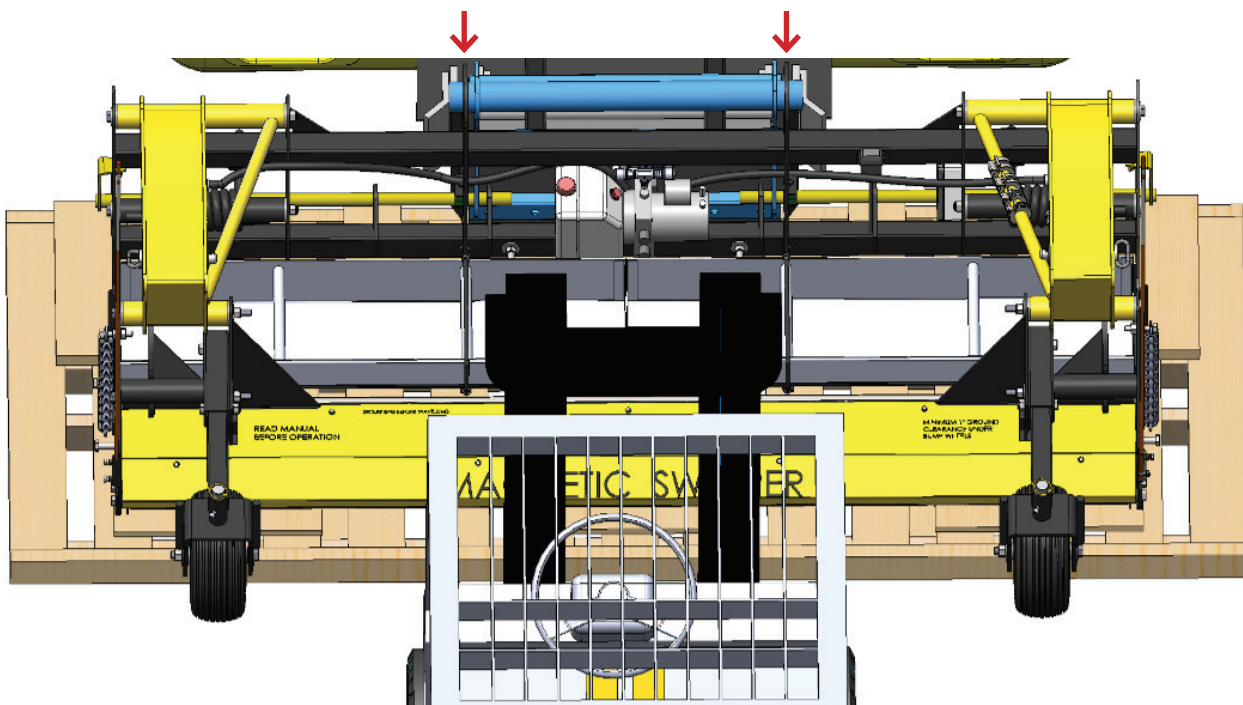
Using a forklift, lift the pallet off the ground from the front of the Baffin (pictured below). Drive the forklift with the pallet towards the front of the vehicle and align the sweeper in the center of the Universal Mounting Plate.

Use the hook guides on the middle uprights of the Baffin sweeper to guide the 2.875" OD steel tube on the Universal Mounting Plate into the main frame of the sweeper. Use a combination of driving forward and tilting/lowering the forks to guide the round tube into place.



Note: This step would be best performed with someone who can watch the mounting location and guide the forklift operator into position.

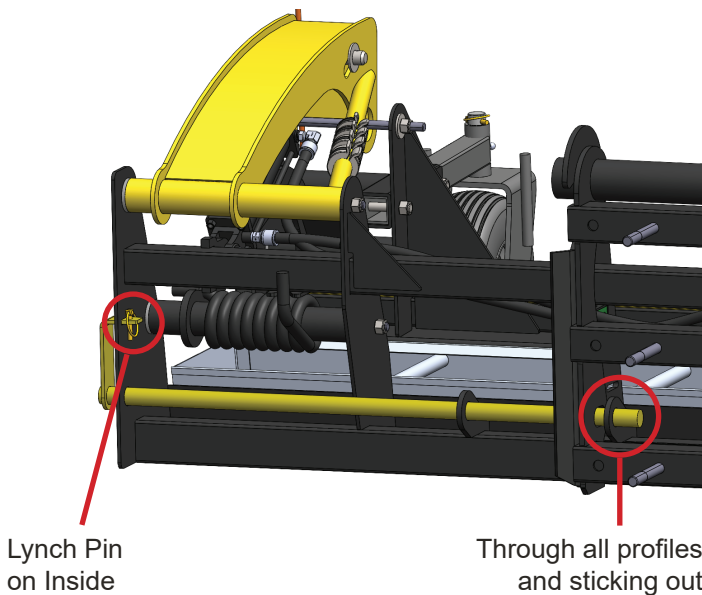
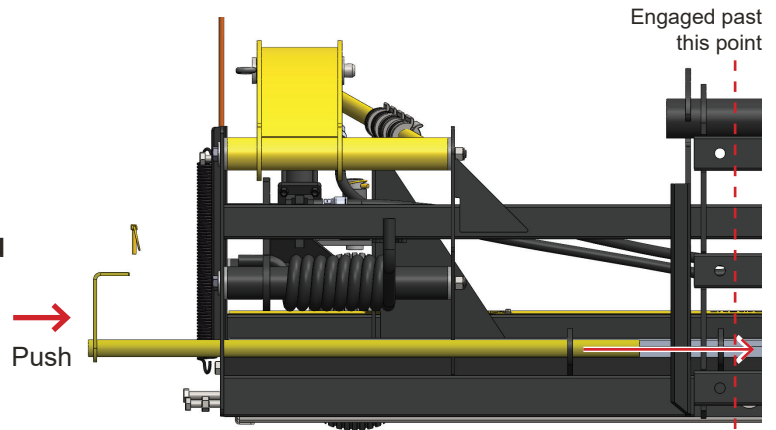
A perspective view is presented below, showing how the Baffin Magnetic Sweeper should line up relative to the Universal Mounting Plate (shown in blue). The two red arrows show the position of the hook shape plates for reference.



Installation Instructions

Step #2: Connect Sweeper to Universal Mounting Plate

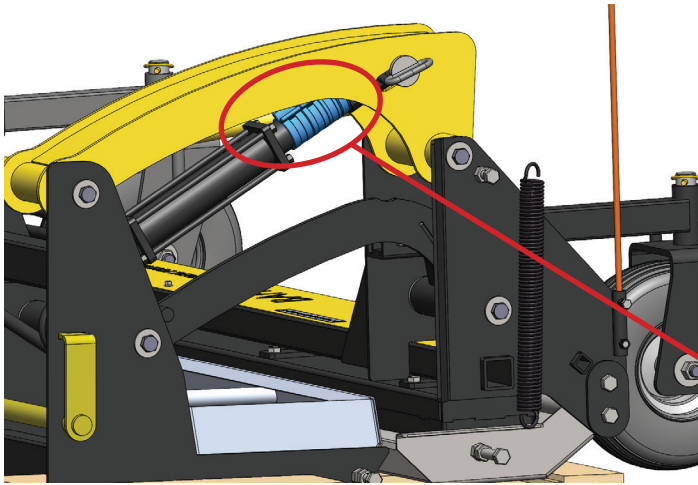
a) Before removing the forklift or other lifting device, gently shake the sweeper to ensure it is fully engaged on the tube.



b) Slide in the latch rods on either end and secure them with the 5/16" lynch pins that were removed in step 4 of the Assembly Instructions. Visually inspect the rear center section to ensure the latch rods are engaged in both the sweeper slot and the mounting plate slot. The image shows the engaged configuration.

Installation Instructions

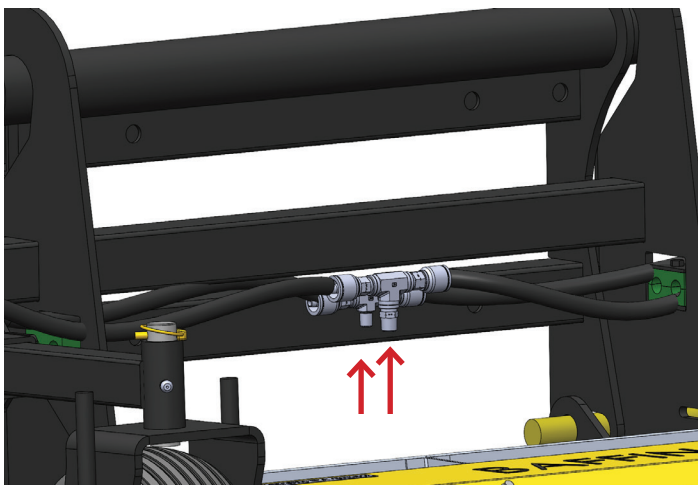
Step #3: Insert the Stroke Control Blocks



There are 2 sets of stroke control blocks provided on each arm brace. Install one set on each cylinder. This will allow you to remove the pallet from the sweeper without having the hydraulics engaged. Once the blocks are installed on each side, you may lower the forklift holding the pallet and the sweeper. The sweeper will remain high enough off the ground to remove the pallet.

Install one set of blocks on each cylinder

Step #4: Connect the Hydraulics



If you purchased a powerpack, skip this step altogether.

Two 3/8" Male NPT connections are provided for hydraulic connections.

You will require 2 3/8" Female NPT fittings and 3/8" diameter hydraulic hose, as well as quick connect couplers or fittings that connect to your vehicle.

When measuring the length of hose that is required, ensure to account for slack in the hydraulic lines to allow for easy mounting and dismounting in the future. This also prevents premature wear on the lines.

Installation Instructions

Step #4 continued

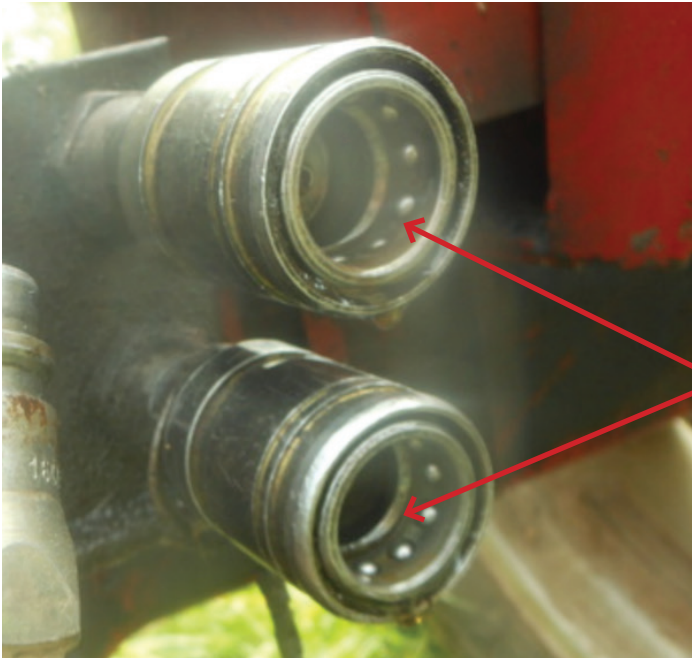


Image of Typical Hydraulic Connections found on Commercial Trucks

Auxiliary Couplers / Quick Connects

On Class 3 trucks equipped with auxiliary hydraulics, there will be at least one set of auxiliary ports located off the front of the vehicle. If they are located to the side of the vehicle, longer hydraulic hoses are required. Ensure the hoses are tied back and secure before operating the vehicle.

It is not important which line is connected to which port. If you realize the hydraulic function operates in the opposite direction that you prefer when starting the vehicle, you can change positions of the quick disconnect couplers on the attachment hoses to remedy your problem.

Please clean or wipe away any grease, dirt or contaminants prior to connecting to the couplers or quick connects. This will prevent any dirt getting into the systems, which can cause premature wear or damage to the hydraulic components.

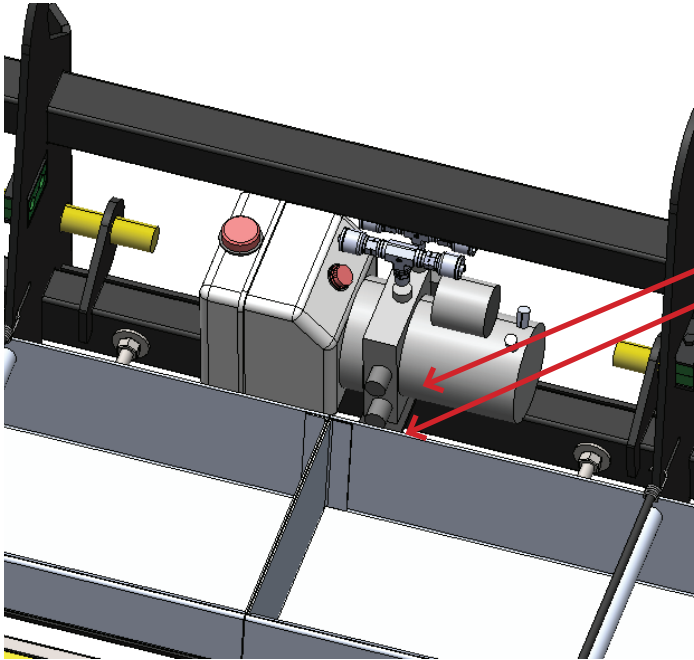
Height adjustment of the attachment is achieved with the control handles or pedals in the cab. Consult your vehicles operator's manual for precise instructions regarding these functions. Your vehicle may have a "float" function on the lowering circuit.

The sweeper was designed with mechanical float capabilities so DO NOT ENABLE FLOAT SETTINGS.

Installation Instructions

Step #5: Mounting the Powerpack

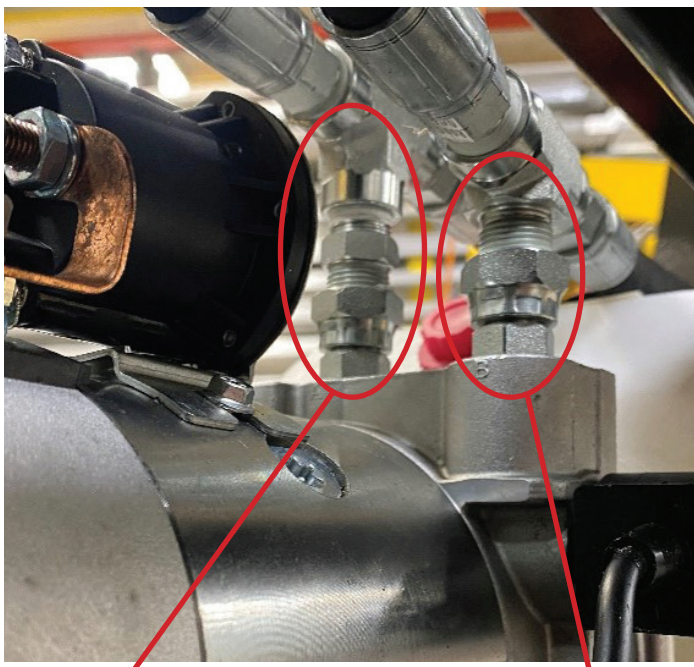
If you did not purchase an optional powerpack, skip this step.



a) Unbox the powerpack and place it in the orientation shown in image below. Locate the sealed bag of bolts, including a:

- 3/8" x 1" long and a
- 3/8" x 3.5" long, with two washers.

At this stage loosely install the 3/8" x 3.5" long bolt w/washer thru the steel tube and into the bottom of the powerpack as well as the 3/8" x 1" long bolt w/washer thru the steel flat bar and into the base of the powerpack. Once both hex bolts are started, tighten fully.



Port A, Longer Tee Connection

Port B, Shorter Tee Connection

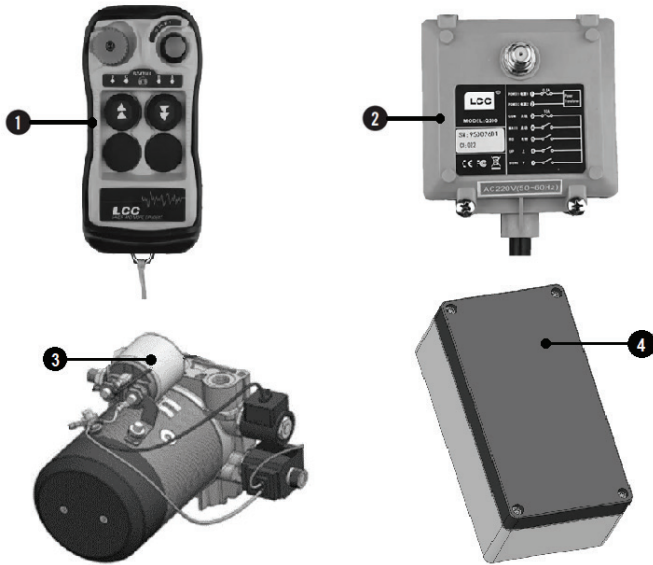
b) Locate the two plastic port plugs and unscrew them. Connect the two 3/8" female NPT x 6 ORBM swivel coupler to the ports of the powerpack. The high-pressure side (with the shorter Tee assembly) attaches to the back port on the powerpack. This is Noted as Port B on the powerpack.

The low-pressure side (with the longer Tee assembly) attaches to the front port on the powerpack. This is noted as Port A on the Powerpack. Ensure the fittings are tight and secure. Do not overtighten as this can cause leaking or damage to the fittings.

Installation Instructions

Step #6: Mounting the Electronics

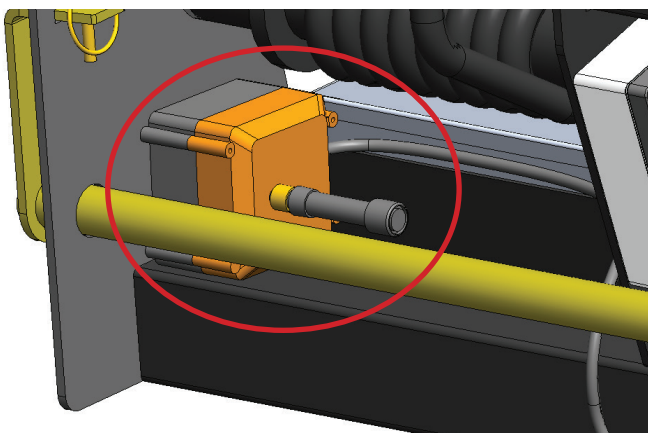
If you did not purchase an optional powerpack, skip this step.



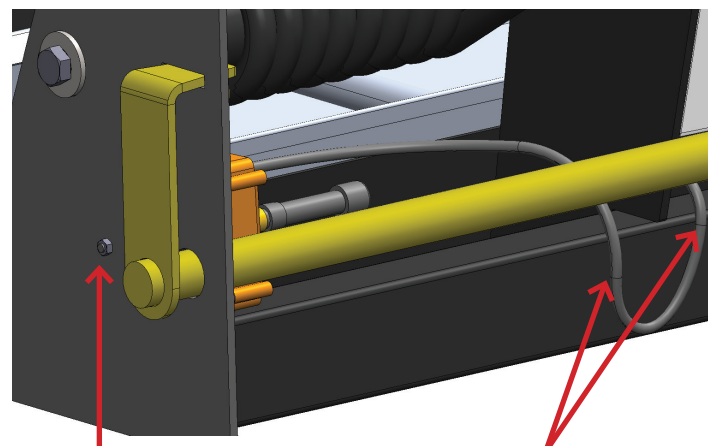
1. **Wireless Remote Control**
2. **Receiver**
3. **Powerpack**
4. **PCB Board with Enclosure**

Note: Battery cables are not included with the electronics. Please see next page for recommendations on battery cable size.

b) There is a single predrilled mounting hole on the outermost face of the steel frame. Fasten the receiver on the inside of the steel plate using the threaded stud and corresponding nut on the back of the receiver so that the antenna points inward. Cable ties are included and should be used to hold the cable to the backside of the 2x3 steel tube. Do not route the cable underneath as it will get damaged.



Mounted Receiver



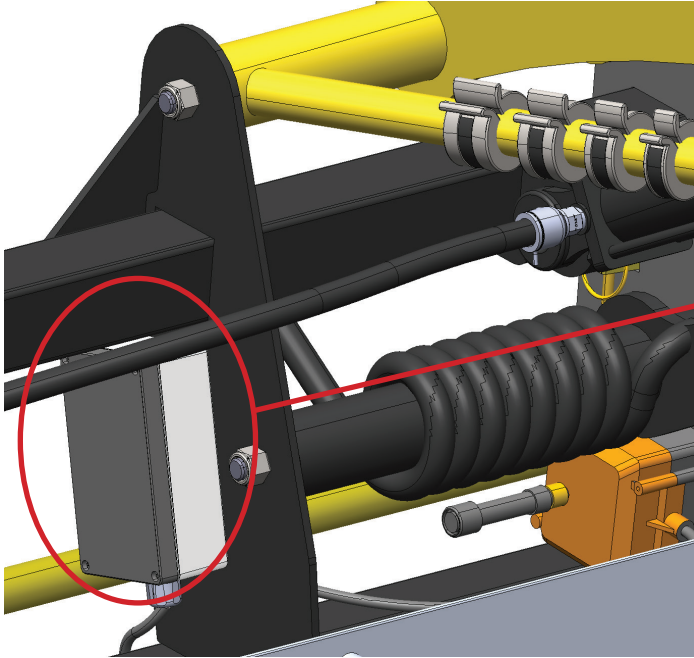
Fasten securely

Use 2 - 3 cable ties

Installation Instructions

Step #6 continued

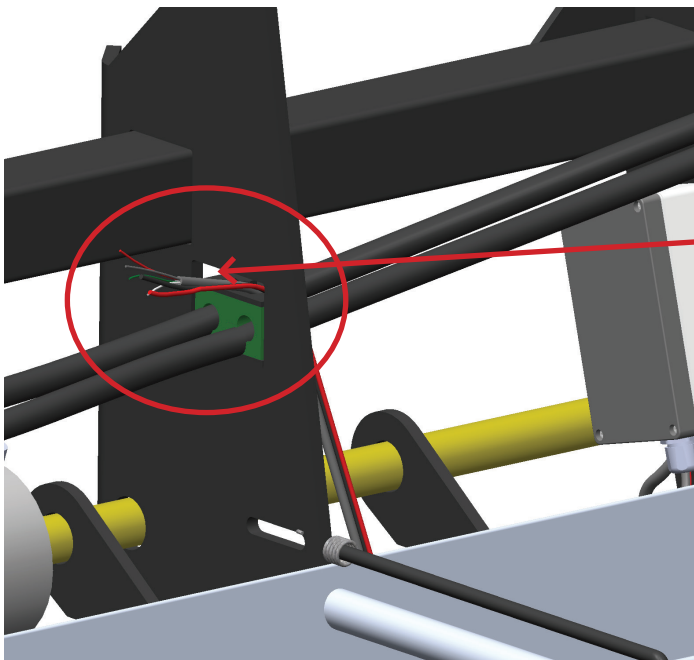
If you did not purchase an optional powerpack, skip this step.



c) Mount the PCB enclosure using the four predrilled holes on the right middle 0.25" thick plate.

You will need to remove the cover in order to access the mounting holes and place the hardware inside.

Secure it in place with the supplied hardware before placing the lid back over the enclosure. Again, do not over tighten the fasteners.



d) Route the (6) remaining loose ends coming out of the PCB through the center plate toward to the powerpack.

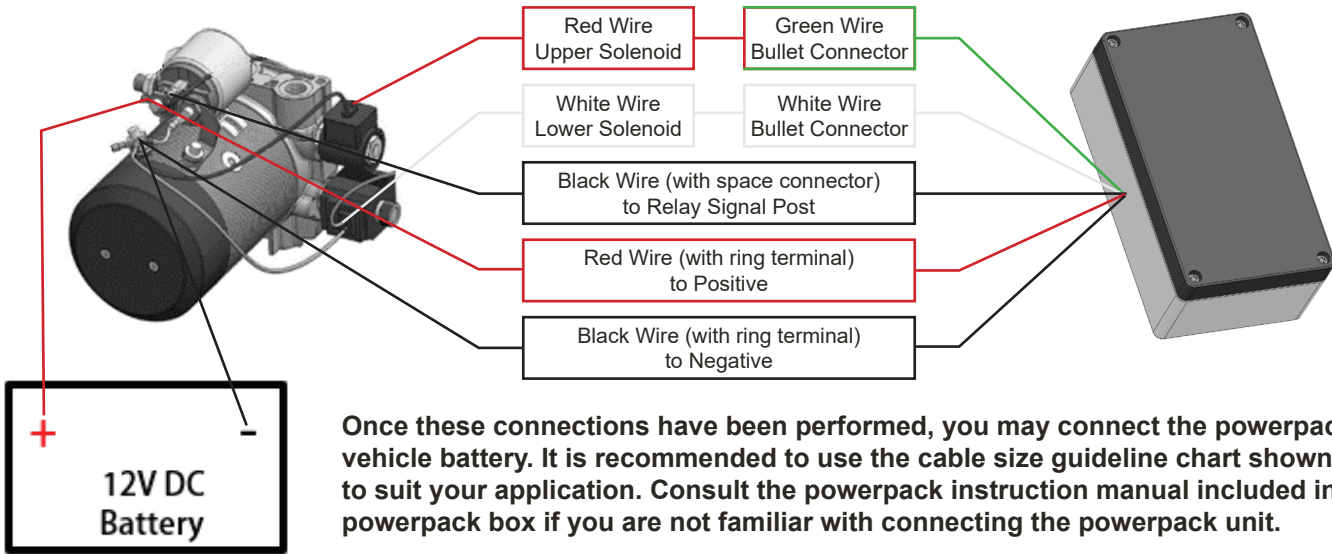
Tie back the cable to the lower rear 2x3" steel tube. The following page will outline how to connect the wires to the powerpack.

Installation Instructions

Step #7: Connecting the Electronics and Powerpack

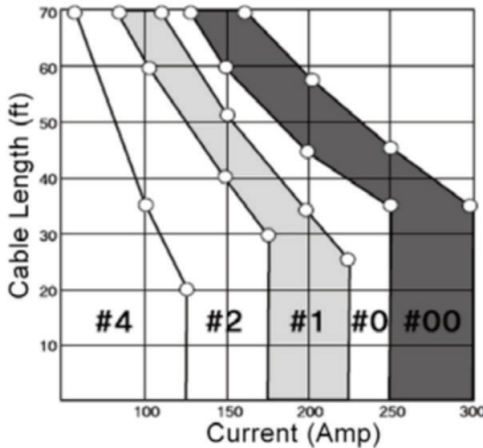
If you did not purchase an optional powerpack, skip this step.

e) Connect the two control wires (Green & White) as illustrated in the diagram below. Three wires run from the powerpack relay to the corresponding three loose ends coming out of the PCB enclosure as shown in the diagram below (2 Black, 1 Red)



PLEASE NOTE: The powerpack ONLY TAKES 12V DC Power. If the vehicle it is attaching to has a 24V system, a stepdown converter or alternate battery source must be used. This is the responsibility of the customer to ensure the correct power is being supplied. Failure to do so can cause injury and may destroy the electrical components and/or powerpack.

The powerpack unit can draw up to 230A at full load. Please reference the gauge chart below for the correct battery cable gauge based on the length of the cables.



| Cable Size | Gauge Diameter |
|------------|-------------------|
| Gauge #00 | 0.35 in. (8.9 mm) |
| Gauge #0 | 0.30 in. (7.6 mm) |
| Gauge #1 | 0.28 in. (7.1 mm) |
| Gauge #2 | 0.25 in. (6.4 mm) |
| Gauge #4 | 0.20 in. (5.1 mm) |

Installation Instructions

Step #8: Controlling the Powerpack via Wireless Remote

If you did not purchase an optional powerpack, skip this step.



The powerpack accessory is controlled by a wireless remote. It can be used up to 50ft away from the vehicle, however it is recommended to only operate the sweeper while in the line of sight to reduce the possibility of injury.

There are four buttons on the remote, one for lifting, one for lowering a START and an emergency stop button.

The Emergency stop button should remain depressed while the sweeper is not in use.

To use the remote to operate the Baffin magnetic sweeper, pivot the emergency stop button so that it raises up. Press the Start button to activate control a green light will show when remote is connected and a button is depressed, red light will show if not connected and a button is depressed. If remote is not connected call customer support.

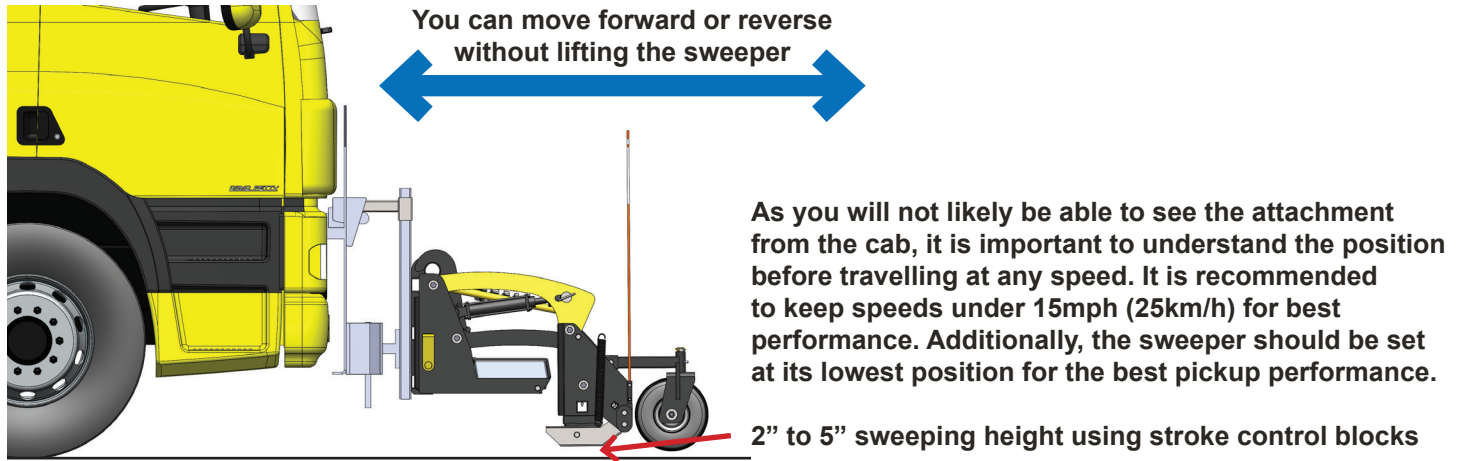
The sweeper can be raised and lowered as required by pressing and holding either the raise or lower buttons. After a short period of inactivity, the remote auto powers down. In the case that there is no motion when pressing and holding either the raise or lower buttons, simply press Start again to gain control of the sweeper. It is highly recommended to depress the Emergency stop after cycling the magnet to avoid accidental movement of the sweeper's hydraulics.

If the remote malfunctions or is lost, there are manual switches located within the PCB board on the sweeper which can be used in case of emergency to raise or lower the sweeper. Simply remove the PCB cover and there are two push buttons that can be used to cycle the magnet. These buttons work the same way that the remote does, requiring continuous input to either raise or lower the magnet. It is not recommended to use these switches other than for emergency purposes. Replacement wireless controls can be purchased if they are lost, damaged, or malfunctioning.

If repairs to any of the wiring connections are required, it is recommended that only highly skilled or trained professionals make repairs. A wiring diagram for all connections can be obtained, by contacting Bluestreak Equipment.

Operating Instructions

Step #1: Operating the Attachment in a Sweeping Position



Step #2: Sweeping Height Adjustment

As the sweeping height increases, performance will decrease. Additionally, as the speed of the vehicle increases performance decrease. It is recommended to test speed and sweep height that works best for your debris type. The chart below outlines the sweep height, and number of stroke control blocks that need to be inserted over each cylinder in order to achieve this sweep height. A general speed recommendation is suggested as well. It may be possible to pick up debris at faster speeds, however this depends on the debris types.

| Sweep Height | Stroke Control Blocks Used | Max. Recommended Sweeping Speed |
|--------------|----------------------------|---------------------------------|
| 2" | None | 25km/h |
| 3" | 1" & 1.5" thick | 15km/h |
| 4" | 1.25" & 1.5" thick | 8km/h |
| 5" | 0.75" & 1.25" thick | 5km/h |
| 10.5" | All blocks | N/A |

Caution should be exercised when inserting and removing the stroke control blocks. Wooden chocks should be placed under the magnet when adding or removing blocks, like jack stands for vehicles. This will prevent injury if the hydraulic system does fail.

Operating Instructions

Step #3: Getting Ready

Pre-Operation Walk-around Inspection

Before every use, it is important to perform a short inspection and certain maintenance on your hydraulic attachment.

Look for loose bolts and tighten them if necessary

Check that all decals are in place and can be read. Replace them if necessary

Take care of our planet and immediately repair any hydraulic leaks. Replace hoses if they appear to be damaged, even if they are not leaking yet. This will prevent rupture in the future.

Hydraulic Attachment Controls

Your hydraulic attachment is designed to run off the vehicle auxiliary hydraulic system by a control switch, or handle in the operator's cab, or via the powerpack accessory. Consult the respective operator's manual for precise instructions on how to activate, reverse and neutralize the auxiliary circuit. The powerpack does not feature pressure relief. Extreme care must be taken when servicing the hydraulics connected to the powerpack. It is recommended to slowly loosen the fittings connecting to the powerpack to allow oil to drain slowly.

Before Starting the Vehicle

Before starting the engine on the vehicle, make sure you are knowledgeable and comfortable with the operation of the auxiliary hydraulic control as outlined in the previous sections of this manual and that in the Operator's/Owner's Manual.

Standard flow hydraulics are all that is required, DO NOT USE HIGH FLOW SETTINGS.

The Baffin sweeper is to be used above the ground, not in contact with it. At its lowest height, the bump wheels should be 1" off the ground. The wheels were not designed to be in constant contact with the ground so do not operate the sweeper with the wheels constantly on the ground. If you find the wheels are riding on the ground often, raise the magnet slightly to avoid premature wear.

The Baffin requires no flow when operating, hydraulics are only operating when lifting the magnet, and when discharging debris. Set pressure or engine speed as you feel comfortable when operating the equipment. Be carefully to not operate at such high pressure that violently lifts and lowers the magnet. There is no need for this and could cause unnecessary damage.

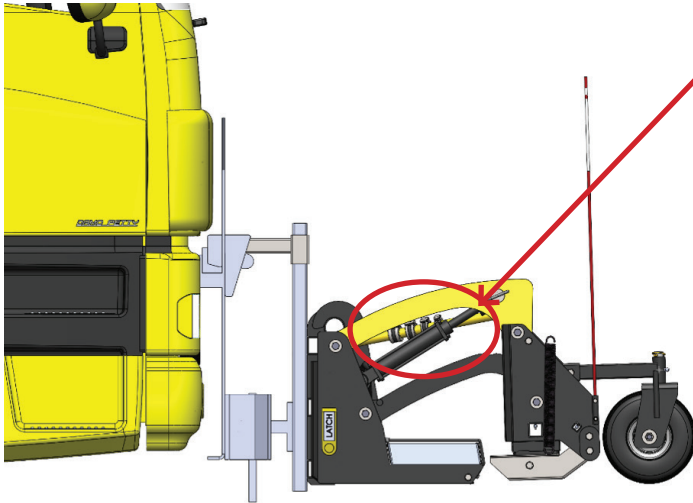
Step #4: Start the Vehicle

Start the vehicle:

1. With the vehicle engine RPMs just above idle, slowly engage the auxiliary hydraulic flow to the attachment cylinders until the lift function is completed. Reverse the direction of the hydraulics until the function has been placed in the opposite direction. Repeat this two more times to purge any air from the system.
2. Lower the attachment to the ground and shut off the vehicles engine and exit the operator's compartment.
3. Check the vehicles hydraulic oil level and add oil if necessary. If quick couplers are used, a small amount of oil may be lost every time the attachment is connected and disconnected.
4. Inspect the attachment's hydraulic plumbing for any noticeable leaks. Correct these leaks before continuing.

Operating Instructions

Step #5: Operating the Attachment While Not Sweeping



Insert one set (4pcs) stroke control blocks over each cylinder to get the sweeper into a travel position.

When travelling between locations when the sweeper is not being used it is highly recommended to raise the magnet away from the ground. On major roadways or where speeds are in excess of 25km/h (15mph), it is very difficult to pick up debris. In order to avoid damage, the sweeper should be raised to a minimum 10.5" ground clearance to allow for potholes, speed bumps and other ground obstacles to be cleared with ease. This position can be achieved by inserting all the supplied stroke control blocks. If this is not high enough, additional stroke control blocks can be purchased, or you may rely on the hydraulic system to keep the magnet suspended.

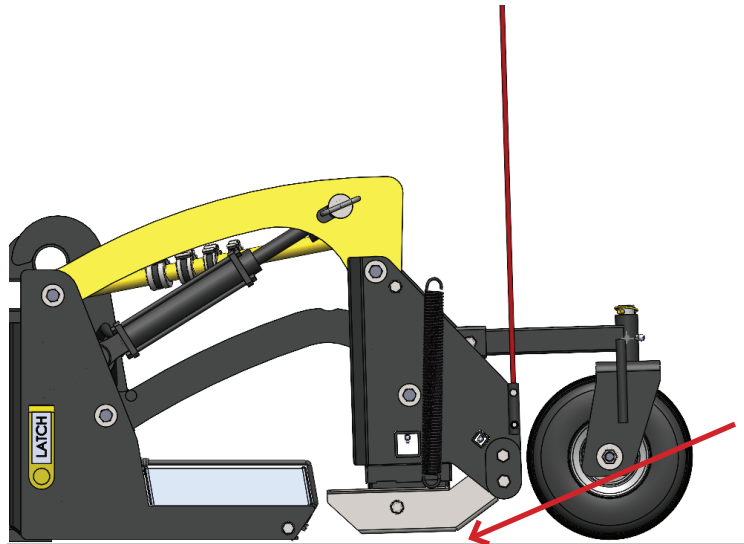
It may be beneficial to note the lowest point on the vehicle, whether that be a differential case, suspension end etc. or the sweeper itself. As you will not be able to see the attachment from the cab, it is important to understand the minimum ground clearance that is available. At highway speeds the magnet should not extend below this minimum point. This will allow hills, valleys, bumps, loading docks, ramps and uneven terrain to be traversed without causing significant interference.

Operating Instructions

Step #6: Removing the Attachment

Before removing the attachment, ensure that you have a standard pallet that is approx. 40" wide x 48" long. It is not recommended to set the sweeper directly on the ground as this will prevent easy reinstallation. Removing the attachment requires more than one person, so ensure multiple people are available.

Use caution and consult your forklift owner operator manual to ensure you are within lifting capabilities. It is recommended to approach the vehicle from the front with a forklift.

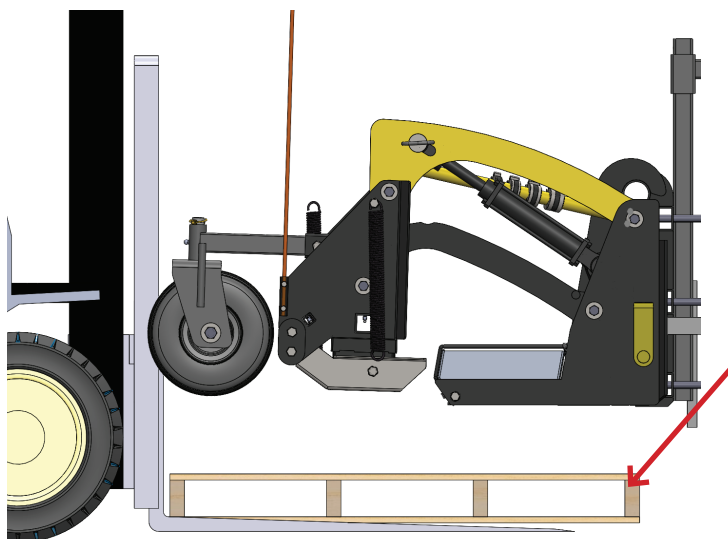


Removing the Attachment.

Steps to remove the sweeper are simply the reverse of attaching the sweeper.

a) Using the in cab hydraulic controls, or the wireless remote, actuate the sweeper so that it does not extend below the main frame.

Front section is slightly above the rear.

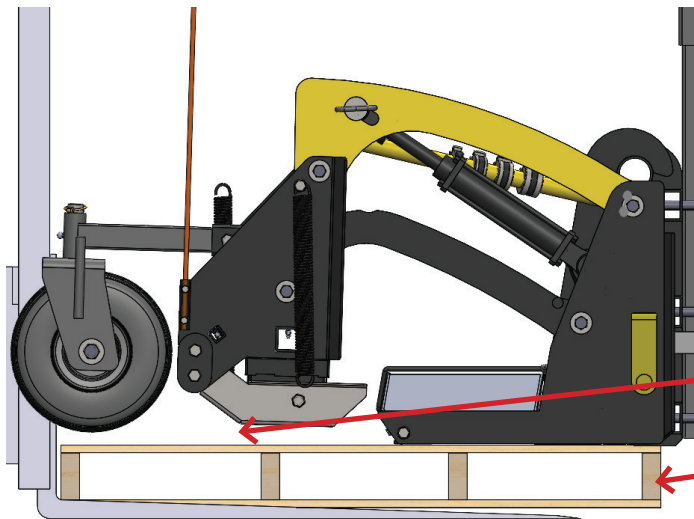


b) Using a forklift with the pallet, drive towards the truck. Ensure the forks do not stick out past the limits of the skid. Drive the Forklift with the pallet underneath the sweeper.

Standard pallet 40" x 48"

Operating Instructions

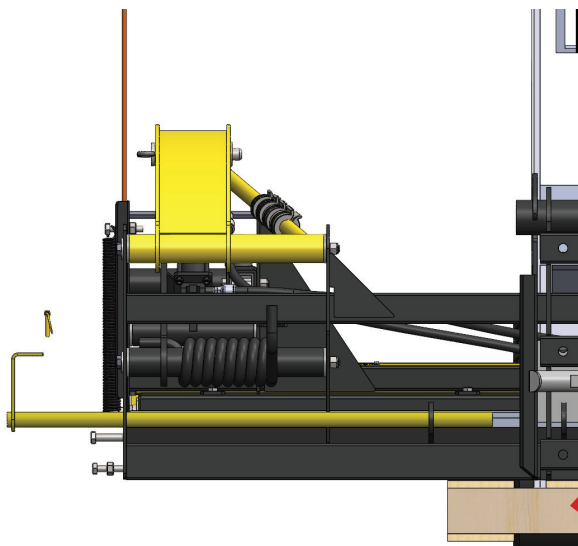
Step #6 continued



c) Raise the Forklift Forks until the weight of the sweeper is off the truck. At this point, you may release the pressure on the hydraulics slowly to let the magnet rest on the pallet. Some trucks have a pressure release valve for this. If your truck does not, lower the magnet until it is resting on the pallet. If you have the powerpack, simply lower the magnet until it rests on the pallet.

Lower magnet to let rest on pallet before disengaging hydraulics.

Pallet should not extend past the rear of the sweeper.



d) Remove the two lynch pins from the latch rods and pull the latch rods out approximately 8". If they don't come out easily, adjust the height of the forklift forks up or down slightly. Once the latch rods are out of the way, the sweeper can be lifted away from the truck. It is helpful to have a spotter who can look at the connection and signal the driver as it is being removed.

Before pulling away ensure the hydraulic connections are disengaged. If a powerpack is installed, the battery cables must be disconnected before pulling the sweeper off the vehicle.

Forklift should hold weight of sweeper on pallet.

Maintenance Instructions

Before Every Use

Check that all fasteners (nuts, bolts, pins, etc) are in their right place and are tight.

Inspect and replace any worn, torn or missing safety decals.

Investigate the location of any oil leaks and repair as required.

Inspect the fluid levels in the main vehicle or powerpack and ensure they are within the maximum and minimum values.

Top up fluid as required.

Every Month

Lubricate the caster wheel yokes using a grease gun. A grease nipple is located on each caster wheel pointed forward. If the yoke does seize up, remove the lynch pin and gently hammer the yoke down. You should be able to fully remove the yoke from the steel bushing, to clean and regrease as needed.

Every Year

Inspect the attachment for any loose or worn parts that may need to be replaced prior to the next season.

Visually inspect the wheels for excessive wear or flat spots.

Clean, sand & repaint any area that looks worn or scratched to prevent further rusting. Use an equipment paint found at your local hardware store or building center.

Replace any stickers that have been lost or damaged.

Store your attachment in a shed or cover with a water-proof tarp if it is stored outside to protect it from the elements. Store in an area not frequented by children.

Storage Tips

It is preferred to store the sweeper in a cool dry place. If it is being stored outside, a waterproof tarp is recommended to cover the entire sweeper. Although the parts are painted or powder coated, with use it will get scratched, and chips can occur in the paint. Upon inspection, touch up the bare metal areas to prevent further corrosion and rusting.

If the powerpack accessory was purchased, it is recommended to store the wireless remote in a cool dry place. It should not be exposed to the elements for an extended period.

Sticker Diagram

