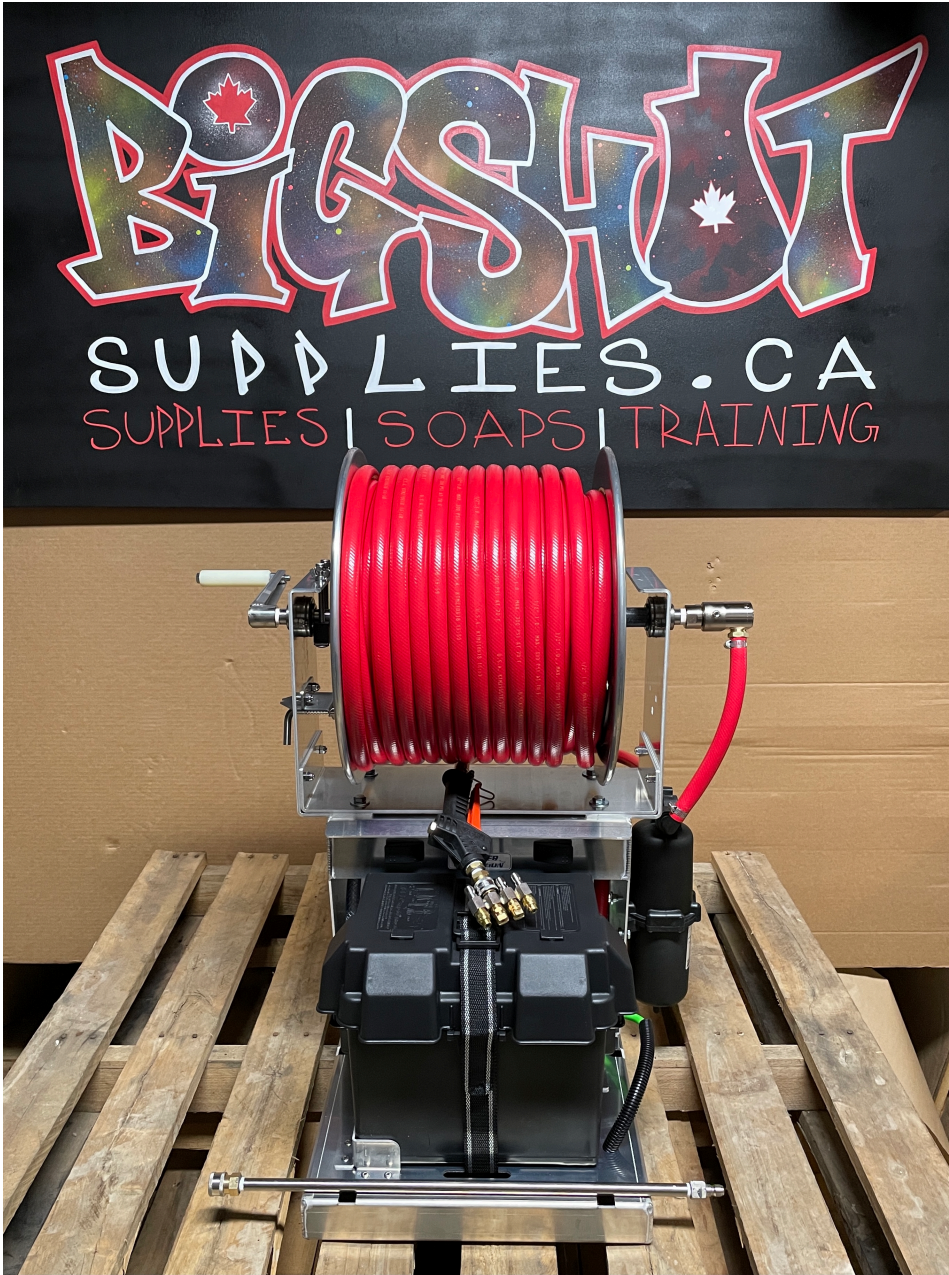


Generation II Twin Pump System

Assembly Guide





Generation III Twin Pump - Assembly Instructions

Box 1 Contents:

- 1 pc. Generation II Base
- Accumulator package:
 - 1 pc. Accumulator
 - 1 pc. Accumulator Port Kit - 20381-046
 - 2 pcs. Kit Clip Adapter ACC/Tank - 306480000A
 - 2 pcs. 1/4" bolt, washer, lock nut kit
- 7 pcs. Worm drive hose clamps
- 1 pc. Female cam lock fitting
- 1 pc. Soft wash gun
- 1 pc. J-Rod with nozzles
- 1 pc. Battery box
- 1 pc. Battery box strap
- 1 pc. Soft Wash Lance
- 2 pc. Filters with 1/2" female NPT
- 2 pcs. 1/2" Male NPT x 1/2" barb PVC fittings
- 2 pcs. Female cam lock fittings
- 2 pcs. Male cam lock fittings

Box 2 Contents:

- 1 pc. Hose reel with 1/2" hose
- 1 pc. Hose reel swivel
- 1 pc. 1/2" barb x 1/2" male NPT brass fitting
- 4 pcs. 3/8" bolt, washer, lock nut kit
- 1 pc. Hose reel handle

Tools/materials Required:

- Open Ended Wrenches:
 - 7/16"
 - 9/16"
 - 7/8"
- Socket Wrench
- Sockets:
 - 7/16"
 - 9/16"
- Flathead Screwdriver
- Teflon tape
- Hose cutter or knife

1. Installing and Plumbing the Accumulator:

Parts	Tools
<ul style="list-style-type: none"> • 1 pc. Generation II Base • 1 pc. Accumulator • 1 pc. Accumulator Port Kit - 20381-046 • 2 pcs. 1/4" bolt, washer, lock nut kit • 3 pcs. Worm drive hose clamps • 2 pcs. Kit Clip Adapter ACC/Tank - 306480000A • 1 pc. Female cam lock fitting • 1 pc. 24" hose (cut from hose reel) • 1 pc. 10" hose (cut from hose reel) 	<ul style="list-style-type: none"> • 7/16" open ended wrench • 7/16" socket • Socket Wrench • Flathead screwdriver • Hose cutter or knife

Using the 7/16" open ended wrench and 7/16" socket with the socket wrench, mount the accumulator to the slotted holes on the side of the base with the 1/4" bolt, washer, lock nut kit. **Note that the side you mount the accumulator on should be opposite of the side you will want the reel handle, ie mount the accumulator on the left side if you intend on installing the hose reel handle on the right side**. Slide a worm drive clamp over one end of the 24" hose, then push the barbed end of the straight Accumulator Port Kit fitting into the same end of the hose ensuring it has covered the entire barb. Now position the worm drive clamp so that it is approximately 1/4" away from the straight fitting and tighten with a flathead screwdriver. On the other end of the 24" hose, slide another worm drive clamp over the hose and insert the barbed end of the female cam lock fitting into that end. Again, ensure the hose is covering the entire barbed portion of the fitting. Position the worm drive clamp approximately 1/4" away from the cam lock fitting and tighten with a flathead screwdriver. Slide a worm drive clamp over one end of the 10" hose, then push the barbed end of the elbowed Accumulator Port Kit fitting into the same end of the hose ensuring it has covered the entire barb. Now position the worm drive clamp so that it is approximately 1/4" away from the straight fitting and tighten with a flathead screwdriver.

2. Installing and Plumbing the Hose Reel:

Parts	Tools
<ul style="list-style-type: none"> • 1 pc. Hose reel • 1 pc. Hose reel swivel • 1 pc. 1/2" barb x 1/2" male NPT brass fitting • 4 pcs. 3/8" bolt, washer, lock nut kit • 1 pc. Worm drive hose clamps • 1 pc. Hose reel handle 	<ul style="list-style-type: none"> • 9/16" open ended wrench • 7/8" open ended wrench • 1 1/8" open ended wrench • 9/16" socket • Socket Wrench • Flathead screwdriver • Hose cutter or knife • Teflon tape

A. Mounting the Hose Reel:

Place the hose reel on top of the base so the four holes on the U-Channel (bottom of hose reel) line up with the four holes on top of the base, and the loose end of the hose comes over the top of the reel from back to front. With the washer on the bolt, slide the bolt through the U-Channel and base from the top. You will need to pull the outside of the hose reel drum outward in order to fully expose the holes. Now thread the nylock

nuts onto the exposed bolt threads from underneath the top of the base. The hoses attached to the pumps will make this tricky, so try holding the nut, and twisting the bolt to start the threading. With the 9/16" open ended wrench on the bolt head, and the socket wrench with the 9/16" socket on the nylock nut, tighten the 4 mounting bolts.

B. Installing and Plumbing the Swivel:

Apply 2-3 wraps of teflon tape around the threaded end of the hose reel manifold that hangs over the accumulator. Hand thread the smaller end of the swivel onto the manifold end and fully tighten using a 1 1/8" open ended wrench. Make sure the locking pin (on the opposite end of the hose reel) is in place to prevent the hose reel from spinning while you tighten the swivel. To install the 1/2" barb x 1/2" male NPT brass fitting, wrap 2-3 layers of Teflon tape around the threaded end of the fitting and hand tighten it into the remaining threaded hole in the swivel and fully tighten with a 7/8" open ended wrench. Line up the hose pointing upward from the accumulator with the brass hose barb sticking out of the swivel (the brass fitting should be pointed down at this point). Cut the hose at the point where the remaining hose can completely cover the brass barb. Slide a worm drive clamp over that end of the hose and slip the hose completely over the brass barb. Position the worm drive clamp approximately 1/4" away from the end of the hose and tighten with a flathead screwdriver.

C. Installing the Handle:

Apply 2-3 wraps of teflon tape around the other threaded end of the hose reel manifold. Thread the handle onto the manifold and turn until tight.

3. Installing the Soft Wash Gun and Battery Box:

Parts	Tools
<ul style="list-style-type: none"> • 1 pc. Soft wash gun • 1 pc. J-Rod with nozzles • 1 pc. Worm drive clamp • 1 pc. Battery box • 1 pc. Battery box strap 	<ul style="list-style-type: none"> • Flathead screwdriver

A. Installing the Soft Wash Gun:

Slip a worm drive clamp over the exposed end of hose on the hose reel. Now, slide the brass barbed fitting of the soft wash gun into the end of the hose. Position the worm drive clamp approximately 1/4" away from the end of the hose and tighten with a flathead screwdriver.

B. Installing the Battery Box:

Slide the bare end of the battery box strap (from the top down) through the slot on the back side of the box (make sure the all plastic side of clip on the other end of the strap is facing away from the box when the strap is pulled all the way through). Now slide the open end of the strap through the slot in the aluminum base of the unit furthest away from the front, then back up and out of the front slot. Now slide the strap up through the slot on the front of the battery box and loop the open end of the strap through the clip on the opposite end of the strap per the instructions in the box. You can release this strap to open the lid when you install the battery.