



Thank you for purchasing one of our Soft Wash Systems. We've provided this manual for your reference and consideration. Here you will find plumbing instructions, suggested blend ratios for your chemicals, maintenance tips and troubleshooting steps. Please utilize this resource in its entirety if you are having issues. If problems persist, please contact us at 253-655-7474 and we will do our best to answer your questions. Thank you.

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PLUMBING INSTRUCTIONS

Water Line Out

Included with your system is a 10ft x ½" Chemical braided hose with a Banjo Cam & Groove Coupler attached. This will connect to the Banjo Plug toward the back of the system and will need to be plumbed to a water tank. We recommend combining the following items:

- PVC ½" Barb to ½ NPT
- ½" MNPT x ½" FNPT Elbow
- ½" Bulkhead
- ½" Threaded Riser cut to ½" above the bottom of the tank

Secure each threaded connection with pipe tape and each hose with a high quality hose clamp.

Sodium Hypochlorite Line

Included with your system is a 10ft x ½" Chemical braided hose with a Banjo Cam & Groove Coupler attached. This will connect to the Banjo Plug toward the back of the system and will need to be plumbed to a Sodium Hypochlorite tank. We recommend combining the following items:

- PVC ½" Barb to ½ NPT
- ½" MNPT x ½" FNPT Elbow
- ½" Bulkhead
- ½" Threaded Riser cut to ½" above the bottom of the tank

Secure each threaded connection with pipe tape and each hose with a high quality hose clamp.

* NOTE: DO NOT USE A TANK WITH A BULKHEAD FITTING ON THE BOTTOM. SODIUM HYPOCHLORITE IS HIGHLY CORROSIVE AND WILL EVENTUALLY LEAK*

Surfactant Line

Included with your system is a 10ft x ¼" Chemical braided hose. Connect this hose to the ¼" barb marked "Surfactant". Insert the other end of the tube in a container filled with the surfactant of your choice. Secure each threaded connection with pipe tape and each hose with a high quality hose clamp.

Degreaser Line

Included with your system is a 10ft x ½" Chemical braided hose with a Banjo Cam & Groove Coupler attached. This will connect to the Banjo Plug toward the back of the system and will need to be plumbed to a degreaser tank. We recommend combining the following items:

- PVC ½" Barb to ½ NPT
- ½" MNPT x ½" FNPT Elbow
- ½" Bulkhead
- ½" Threaded Riser cut to ½" above the bottom of the tank

Secure each threaded connection with pipe tape and each hose with a high quality hose clamp.

* NOTE: DO NOT USE A TANK WITH A BULKHEAD FITTING ON THE BOTTOM.
DEGREASERS CAN BE HIGHLY CORROSIVE AND WILL EVENTUALLY LEAK*

BLENDING INSTRUCTIONS

If you've chosen one of our soft wash systems that come with a Mix Master Manifold, you can adjust the ratio of the chemical mixed with the water as needed. This versatility allows your business to perform different types of jobs without having to make several different batches.

In most of our systems, the water line does not have a shut off valve and will provide a continuous supply. Simply adjust the additional valves to get the target blend ratios.

Below, we've provided recommending ratios and manifold adjustments for various surfaces. This chart is to be used at your own discretion. Please test small areas before, consult with the customer and leverage your own cleaning experience before using this or any other tool.

Home Siding Materials

	Sodium Hypochlorite	Surfactant
Vinyl Siding	1-2% or 30-60 Degrees	15 Degrees
LAP Siding	2-3% or 60-90 Degrees	30 Degrees
Metal Siding		
Stucco Siding		
Imitation Stone/ Brick Siding		
Brick/Stone Siding	3-4% or 90-120 Degrees	45 Degrees
Concrete Siding		
Wood Siding	We do not recommend using sodium hypochlorite on unpainted wood surfaces.	

Roof Materials

	Sodium Hypochlorite	Surfactant
Metal Roof	2-3% or 60-90 Degrees	30 Degrees
Composite Roof		
Asphalt Shingles	4-6% or 120-180 Degrees	90 Degrees
Concrete / Clay Tile		
Wood Shake	We do not recommend using sodium hypochlorite on unpainted wood surfaces.	

MAINTENANCE

Flush The System After Every Job

One of the best ways to prevent system failures such as leaks, corrosion, and dead pumps is to flush your system after EVERY job. Once you've completed a job, ensure that all the chemical and soap valves are in the off position. Aim the nozzle in a direction that will not affect vegetation, landscaping, or other risky areas. Hold the trigger and allow the existing chemical to be purged from the hose. A 250 ft of hose will hold approximately 2.5 gallons of liquid. At 5.5 GPM, your pump should purge the line within about 30 seconds without a restrictive nozzle. We recommend that you allow clean water to flush the entire system for 3-5 minutes before turning it off.

Turn the Master Switch "OFF" Every Night

By turning the master switch to the "OFF" position when you park the soft wash system for the evening, you are guaranteeing that there is no battery draw for any of the lights and that the system will be completely charged if plugged in. Additionally, it will help prevent electrical fires in the case of faulty wiring, corrosion or unexpected liquid entering the system.

Charge the Battery Nightly

At the end of the day, use an outdoor rated extension cable plugged from a wall outlet to the charging port on the soft wash system. An overnight charge will ensure that the system will be fully charged and ready for use by the next morning.

Regularly Check for leaks

When using corrosive chemicals such as degreasers and sodium hypochlorite, leaks can occur at any time. It's best to be aware of your system and identify any leaks as soon as possible. To do this, turn all the valves to the "ON" position. Spray in a direction that will not cause any harm for 60 seconds. Review all the lines in the system for leaks. When complete, remember to flush the system for 3-5 minutes.

TROUBLESHOOTING

I turn on the switch and the pump does not activate.

Test	Results	Indicates	Action
Release pressure from the line by pulling the trigger on the gun.	The gun shoots water and the pump activates.	There was pressure built up in the lines which caused the pump switch to deactivate.	No further action is required.
	The gun shoots water for a moment then stops or the gun does not shoot water. The pump does not activate.	The pump is not receiving power or is receiving power and it's switch is not activating.	Ensure that the system is on and that the lights on the front are active. Disconnect the pump from the SAE port, inspect the plug and port for defect, then reseal the plug securely. If this does not work, see " <i>Low Or No Pressure When The Trigger Is Pulled</i> ".
	Very little or no water comes out of the gun. The pump does not activate.		

My system is not turning on.

Test	Results	Indicates	Action
Inspect the lights on the front of the system.	The lights on the front of the system are OFF.	Master switch is off.	Move the master switch on the battery box to the ON position. This should activate the lights in the front of the system.
	The lights on the front of the system are ON.	The pump may have already primed the line.	Release pressure from the line by pulling the trigger on the gun.
Tighten the wiring located on the battery terminals and master switch.	The lights on the front of the system are OFF.	There is not an issue with the connection. There may be an issue with the battery, battery charger or battery charging port.	Plug an extension cord directly into the battery charging port. Inspect the battery charger and ensure that it is turning on. If not, bypass the port and plug directly into the charger. If it doesn't seem to be operational, try a different outlet or extension cord. In rare cases the battery charger may be dead and need to be replaced.
	The lights on the front of the system are ON.	The connection was loose and was not supplying power to the system.	No further action is required.

Low Or No Pressure When The Trigger Is Pulled.

Test	Results	Indicates	Action
Ensure that the system is on and the pump is activating. Hold the trigger on the gun.	Water is spitting out in a sporadic or inconsistent way.	Air in the lines	Make sure all the manifold valves are in the off position. Hold the trigger for 10 Seconds. If the issue continues, then you have an air leak in the water line somewhere. If the pressure returns, turn on one valve at a time and hold the trigger for 10 seconds each time. When the problem returns you will have identified the line that has the air leak.
	The stream is only reaching a few feet.	Air in the Lines	
		Empty or Low Tank	There may not be enough liquid in a tank to feed the line. Top off each tank and retry.
		Kink in the lines or gun	The soft hose can get a kink that will slow down the flow. Unravel the entire hose reel and hold the trigger for 10 seconds. If pressure returns, then there is a kink in the hose. Otherwise, check to make sure there is not a clock in the tips or lines. If all of these pass inspection, you may need to replace your pump.
	Water is leaking just beyond the end of the hose	Kink in the lines or gun	

My Battery Is Not Charging

Test	Results	Indicates	Action
Plug in an extension cord to the charge port on the system.	None of the lights come on.	Dead Outlet	Try to plug in your unit to a different outlet. Also try to use a different extension cord.
		Wires Disconnected	Check each of the wiring connections by moving them. Make sure each connection is properly secured.
	The charger does not come on.	Dead Charger	In rare cases, the charger will die. Refer to the charger user manual for troubleshooting and warranty information.
	The battery won't take a charge no matter how long it stays on.	Dead battery	In rare cases, the battery will die and may need to be replaced.

I'm not getting (Water/Soap/Chemical)

Test	Results	Indicates	Action
Turn your system on and hold the trigger for 10 seconds.	There is no water coming out of the nozzle. It doesn't seem like the pump is sucking anything.	Air in the lines	Make sure all the manifold valves are in the off position. Hold the trigger for 10 Seconds. If the issue continues, then you have an air leak in the water line somewhere. If the pressure returns, turn on one valve at a time and hold the trigger for 10 seconds each time. When the problem returns you will have identified the line that has the air leak.
		Empty or Low Tank	There may not be enough liquid in a tank to feed the line. Top off each tank and retry.
		Kink in the lines or gun	The soft hose can get a kink that will slow down the flow. Unravel the entire hose reel and hold the trigger for 10 seconds. If pressure returns, then there is a kink in the hose. Otherwise, check to make sure there is not a clock in the tips or lines. If all of these pass inspection, you may need to replace your pump.