



OPERATION MANUAL

Typhoon 4000 PRESSURE BLASTER



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INTRODUCTION



Attention: Read through the complete manual prior to the initial use of your pressure blaster.

Using the Operator's manual

The operating manual is an important part of your pressure blaster and should be read thoroughly before initial use, and referred to often to make sure adequate safety and service concerns are being addressed. Reading the owner's manual thoroughly will help avoid any personal injury or damage to your machine. The information in this manual will offer you the most effective tools for cleaning as well as the safest.

By knowing how best to operate this machine you will be better positioned to show others who may also operate the unit.

This manual contains information for the complete range of be pressure blasters, and is placed in order starting from the safety requirements to the operating functions of your machine.

You can refer back to the manual at any time to help troubleshoot any specific operating functions, so store it with the machine at all times.

Notice

Actual pressure released at the point of discharge may vary by machine due to varying factors including: Volume of water being fed to the machine by the water source, the inclusion of a Chemical injector in the line, or variations in Engine performance



PRODUCT IDENTIFICATION

Record Identification Numbers

Pressure Blaster

If you need to contact an Authorized Dealer or Customer Service line (1-866-338-7519) for information on servicing, always provide the product model and identification numbers.

You will need to locate the model and serial number for the machine and record the information in the places provided below.

Date of Purchase:

Dealer Name:

Dealer Phone:

Product Identification Numbers

Model Number:

Serial Number:

Engine

Horse Power:

SAFETY

Understanding the Machine Safety Labels

The machine safety label shown below is placed on your machine to draw attention to potential safety hazards.

WARNING!



Do not leave unit running longer than 1 minute without using or pump will overheat. *Ne pas laisser fonctionner inutilement l'unité pendant plus d'une minute.*



Do not let unit freeze. *La pompe risquerait de surchauffer.*



Always wear eye protection. *Porter toujours des lunettes de sécurité.*



High pressure sprays can cause serious bodily injury. Use with Caution. *Les jets à haute pression peuvent causer de graves blessures corporelles. Soyez prudent.*



Warranty is void if you exceed preset pressure causing severe damage to gauge and unloader. *Ne pas exposer cette unité au gel la garantie n'est pas applicable si vous exédez la mesure de pression PSI indiqué. Causez beaucoup de dommage à la indicateur et la dechargeur.*

Save these Instructions Safety Rules



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol (▲) is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards.

DANGER indicates a hazard which, if not avoided, will result in death or serious injury.

WARNING indicates a hazard which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

NOTICE indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

Hazard Symbols and Meanings



Read Operator's Manual



Bodily Harm



Clogged



Dry



Electric Shock



Fire



High Pressure



Hot Surfaces



Keep Dry



Kickback



Level



No Smoking



Pinch



Powerful Spray



Proper Clearance



Proper Lifting



Relieve Pressure



Store in Dry Place



Toxic Fumes



Wear Eye Protection

SAFETY

WARNING



Running engine gives off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause headache, fatigue, dizziness, vomiting, confusion, seizures, nausea, fainting or death.

Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting, or poisoning.

- Operate pressure washer **ONLY** outdoors.
- Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.
- **DO NOT** start or run engine indoors or in an enclosed area, even if windows and doors are open.
- Use a respirator or mask whenever there is a chance that vapors may be inhaled.
- Read all instructions with mask so you are certain the mask will provide the necessary protection against inhaling harmful vapors.

WARNING



Use of pressure washer can create puddles and slippery surfaces.



Kickback from spray gun can cause you to fall.

- Operate pressure washer from a stable surface.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

WARNING



Fuel and its vapors are extremely flammable and explosive.



Fire or explosion can cause severe burns or death.

When Adding or Draining Fuel

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

When Starting Equipment

- Ensure spark plug, muffler, fuel cap, and air cleaner are in place.
- DO NOT crank engine with spark plug removed.

When Operating Equipment

- DO NOT tip engine or equipment at angle which causes fuel to spill.
- DO NOT spray flammable liquids.

When Transporting or Repairing Equipment

- Transport/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- Disconnect spark plug wire.

When Storing Fuel or Equipment with Fuel in Tank

- Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.

WARNING



Risk of electrocution.

Contact with power source can cause electric shock or burn.

- NEVER spray near power source.

SAFETY

⚠ WARNING



- After each starting attempt, where engine fails to run, always point spray gun in safe direction and squeeze spray gun trigger to release high pressure.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

⚠ WARNING



Contact with muffler area can result in serious burns.

Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.

⚠ WARNING



Unintentional sparking can result in fire or electric shock.

When Adjusting or Making Repairs to Your Pressure Washer

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

When Testing for Engine Spark

- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.
- NEVER aim spray gun at people, animals, or plants.
- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- Always be certain spray gun, nozzles and accessories are correctly attached.

SAFETY

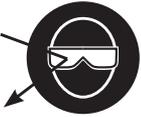
⚠ WARNING



Starter and other rotating parts can entangle hands, hair, clothing, or accessories.

- NEVER operate pressure washer without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

⚠ WARNING



Risk of eye injury.

Spray can splash back or propel objects.

- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.

NOTICE

High pressure spray may damage fragile items including glass.

- DO NOT point spray gun at glass when using red 0° spray tip.
- NEVER aim spray gun at plants.

NOTICE

Improper treatment of pressure washer can damage it and shorten its life.

- If you have questions about intended use, ask dealer or contact nearest authorized dealer.
- NEVER operate units with broken or missing parts, or without protective housing or covers.
- DO NOT by-pass any safety device on this machine.
- DO NOT tamper with governed speed.
- DO NOT operate pressure washer above rated pressure.
- DO NOT modify pressure washer in any way.
- Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there.
- NEVER move machine by pulling on hoses. Use handle provided on unit.
- Check fuel system for leaks or signs of deterioration, such as chafed or spongy hose, loose or missing clamps, or damaged tank or cap. Correct all defects before operating pressure washer.

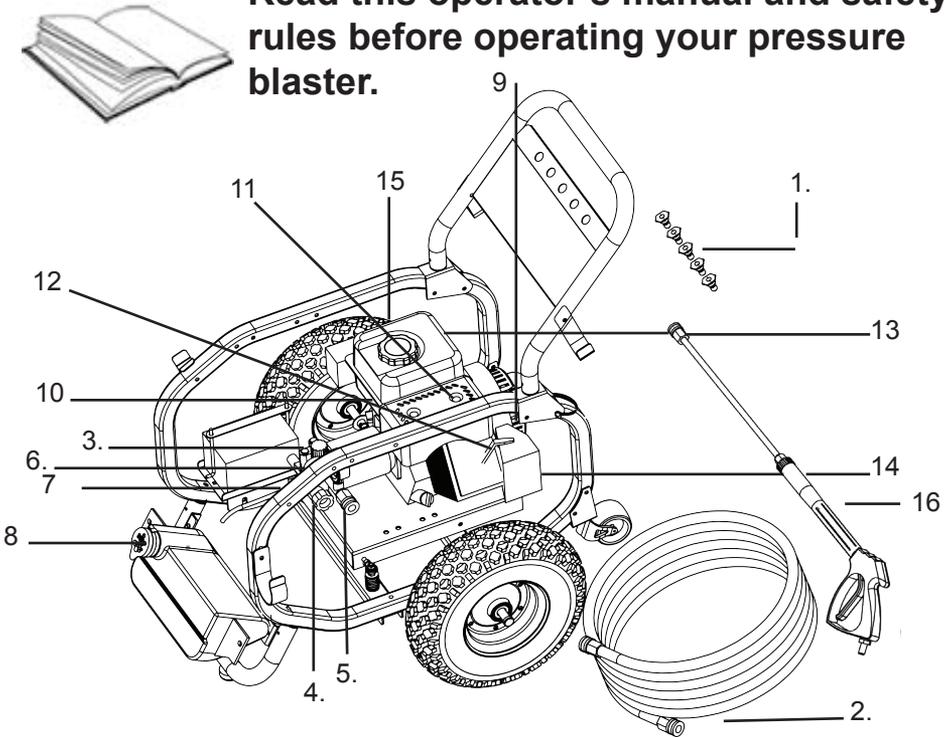
 **WARNING**

NEVER ALLOW UNIT TO RUN FOR LONGER THAN 1 MINUTE WITHOUT RELIEVING PRESSURE ON PUMP BY PULLING TRIGGER ON GUN.



GAS WASHER COMPONENTS

Read this operator's manual and safety rules before operating your pressure blaster.



- 1. Spray Tips** Detergent, 0°, 15°, 25° and 40°: for various high pressure cleaning applications.
- 2. High Pressure Hose** Connect one end to water pump and the other end to spray gun.
- 3. Pressure Control Knob** Varies pressure of high pressure spray.
- 4. Water Inlet** Connection for garden hose.
- 5. High Pressure Outlet** Connection for high pressure hose.
- 6. Pump** Develops high pressure.
- 7. Oil Level Indicator** Level should be at halfway
- 8. Detergent Siphoning Tube/Filter** Use to siphon pressure blaster safe detergent into the low pressure stream.
- 9. Choke Lever** Prepares a cold engine for starting.
- 10. Fuel Valve** Used to turn fuel supply on and off to engine.
- 11. Recoil Starter** Used for starting the engine manually.
- 12. Throttle Lever** Sets engine in starting mode for recoil starter.
- 13. Engine Switch** Set switch to "On" to start engine. Set switch to "Off" to stop a running engine.
- 14. Air Filter** Protects engine by filtering dust and debris out of intake air.
- 15. Fuel Tank** Fill tank with regular unleaded fuel. Always leave room for fuel expansion.
- 16. Spray Gun Extension with Quick Connect Nozzles** Controls the application of water onto cleaning surface with trigger device. Includes trigger lock. Allows you to switch between five different spray tips.



PRE-OPERATION CHECKLIST

Follow the Checklist Below Prior to Using the Machine Each Time

1. Check to ensure the engine oil is at the proper level.

Use **SAE 10W30 Oil**

2. Add fuel to the gas tank.

3. Connect and tighten the garden hose to the GHA (garden hose inlet) connection.

**** Water must be turned on prior to starting the washer, pull the spray trigger to ensure water is moving through the lines and out the nozzle without any leaks before starting the unit.****

5. Review the safety guidelines in the manual prior to starting the unit.

If you have any issues operating the pressure blaster, call the customer service line at 1-866-338-7519.

 WARNING	
 oil	Always check the level of the engine oil prior to starting the washer.
▪ Failure to do so could cause the engine to seize if the oil is low or empty.	

Connect Hose and Water Supply to Pump Before Starting

 WARNING	
	DO NOT start your pressure washer without the water supply turned on.
▪ Failure to do so will result in damaging the pump from overheating and void the warranty.	



STARTING YOUR WASHER

Starting an Electric Start Unit

To start your pressure blaster for the first time, follow these instructions step-by-step. This starting information also applies if you have let the pressure blaster sit idle for at least a day.

- Unit is shipped with battery cables disconnected.
- Attach positive (red) lead first.
- Attach negative (black) lead last.
- Rotate the fuel valve to the 'on' position.
- Move choke to the 'closed' or 'start' position. Consult your engine manual.
- Assure the throttle is pushed to the left.
- Turn key to the 'start' position.
- Once engine starts, return key to the 'run' position.
- Move choke to the 'open' or 'run' position.

NOTICE

DO NOT run the pump without the water supply connected and turned on.

- Damage to equipment resulting from failure to follow this instruction will void warranty.

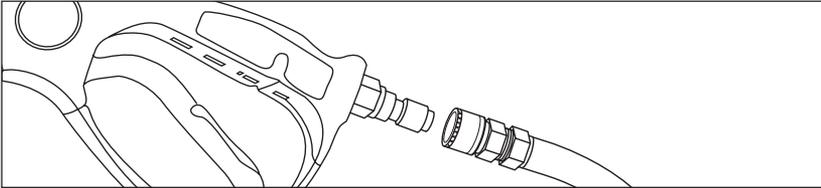
Starting a Manual Start Unit (If Applicable)

- Rotate the fuel valve to the 'on' position.
- Move the choke to the 'closed' or 'start' position. Consult your engine manual.
- Assure the throttle is pushed to the left.
- Turn key or on/off switch to on position.
- Pull recoil starter grip slowly until resistance is felt.
- Pull recoil cord briskly
- Return starter cord gently into the recoil housing.
- If the engine does NOT start, release the built up pressure by pointing the high pressure gun in a safe direction and squeezing the trigger.
- Repeat pulling the recoil starter cord.
- Once engine starts, move choke to the 'open' or run position.



STARTING YOUR WASHER

Uncoil high pressure hose and attach quick connect end of hose to base of spray gun. Pull down on collar of quick connect, slide onto spray gun and let go of collar. Tug on hose to be sure of tight connection.



⚠ WARNING



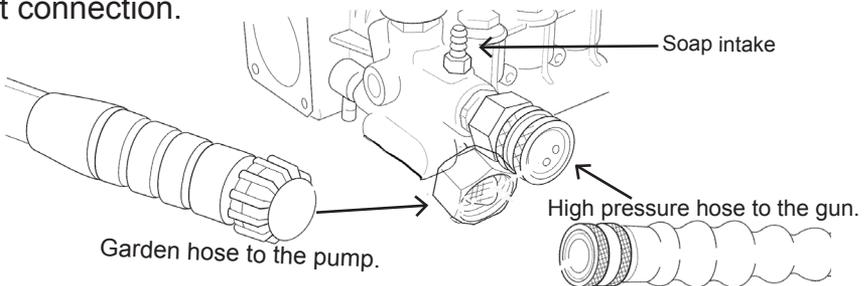
The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- Always be certain spray gun, nozzles and accessories are correctly attached.

⚠ WARNING

NEVER ALLOW UNIT TO RUN FOR LONGER THAN 1 MINUTE WITHOUT RELIEVING PRESSURE ON PUMP BY PULLING TRIGGER ON GUN.

Similarly, attach other end of high pressure hose to high pressure outlet on pump. Pull down on collar of quick connect, slide onto pump and let go of collar. Pull on hose to be sure of tight connection.





STARTING YOUR WASHER

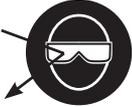
Turn Water Supply on, point gun in a safe direction and squeeze the trigger to purge the pump of air and debris. Do this for at least 30 seconds.

Take a look at all connections to make sure there are no leaks or loose connections.

IMPORTANT: DO NOT siphon standing water for the water supply. Use ONLY cold water (less than 100°F).

⚠ WARNING	
	<p>Running engine gives off carbon monoxide, an odorless, colorless, poison gas.</p> <p>Breathing carbon monoxide can cause headache, fatigue, dizziness, vomiting, confusion, seizures, nausea, fainting or death.</p>
<ul style="list-style-type: none">▪ Operate pressure washer ONLY outdoors.▪ Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.▪ DO NOT start or run engine indoors or in an enclosed area, even if windows and doors are open.	

IMPORTANT: Before starting the pressure blaster, be sure you are wearing adequate safety goggles.

⚠ WARNING	
	<p>Risk of eye injury.</p> <p>Spray can splash back or propel objects.</p>
<ul style="list-style-type: none">▪ Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.▪ Before starting the pressure washer, be sure you are wearing adequate safety goggles.▪ NEVER substitute safety glasses for safety goggles.	

STARTING YOUR WASHER

WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- **DO NOT** allow CHILDREN to operate pressure washer.
- **NEVER** repair high pressure hose. Replace it.
- **NEVER** repair leaking connections with sealant of any kind. Replace o-ring or seal.
- **NEVER** connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- **ALWAYS** point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.
- **NEVER** aim spray gun at people, animals, or plants.
- **DO NOT** secure spray gun in open position.
- **DO NOT** leave spray gun unattended while machine is running.
- **NEVER** use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- **ALWAYS** be certain spray gun, nozzles and accessories are correctly attached.

Throttle Control System

(FOUND ONLY ON 4000 MODEL)

The automated throttle control system spontaneously shifts from full engine speed to a low idle (RPM) upon release of the spray trigger. This allows for a long-lasting, efficiently running, and quiet transaction.



STARTING YOUR WASHER

WARNING



Contact with muffler area can result in serious burns.

Exhaust heat/gases can ignite combustibles, structures or damage fuel tank causing a fire.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of pressure washer including overhead.

How to Shut Down Your Pressure Blaster

1. Release spray gun trigger and let engine idle down.
2. Turn the engine switch to the OFF position.
 - Rotate key counterclockwise to the 'off' position.
 - Rotate the fuel valve to the 'closed' position for storage maintenance or transportation.
 - Disconnect battery for storage or maintenance.
3. ALWAYS point spray gun in a safe direction, squeeze spray gun trigger to release retained high water pressure.

IMPORTANT: Spray gun traps high water pressure, even when engine is stopped and water is disconnected. Couplings will not release if under pressure.

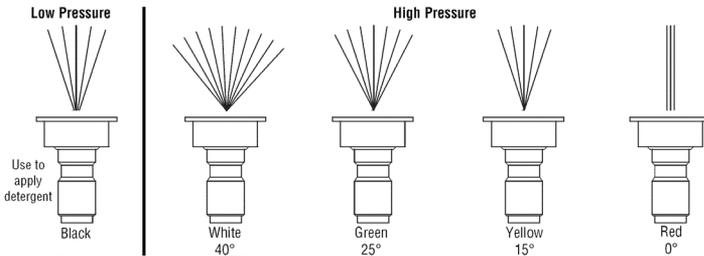
WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.



How to Use Spray Tips

The quick-connect on the nozzle extension allows you to switch between five different quick connect spray tips. Spray tips can be changed while pressure blaster is running once spray gun trigger safety lock is engaged. The spray tips vary the spray pattern as shown above.

⚠ WARNING	
	<p>The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.</p>
<ul style="list-style-type: none"> ▪ NEVER exchange spray tips without the trigger safety lock engaged on the spray gun. ▪ DO NOT twist spray tips while spraying. 	

Follow these instructions to change spray tips:

1. Pull back collar on quick-connect and pull current spray tip off. Store spray tips in holder provided on the handle. Storing nozzles in the designated holder will help prevent debris clogging the tip.
2. Select desired spray tip:
 - For gentle rinse, select white 40° spray tip.
 - For general purpose or large surface select green 25° spray tip.
 - To scour surface, select yellow 15° or red 0° spray tip.
 - To apply detergent, select black spray tip.
3. Pull back on collar, insert new spray tip and release collar. Tug on spray tip to make sure it is securely in place.

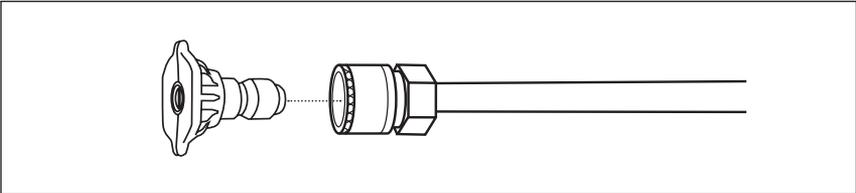
Usage Tips

- For most effective cleaning, keep spray tip from 8 to 24 inches away from cleaning surface.
- If you get spray tip too close, especially using a high pressure spray tip, you may damage surface being cleaned.

SPRAY TIPS

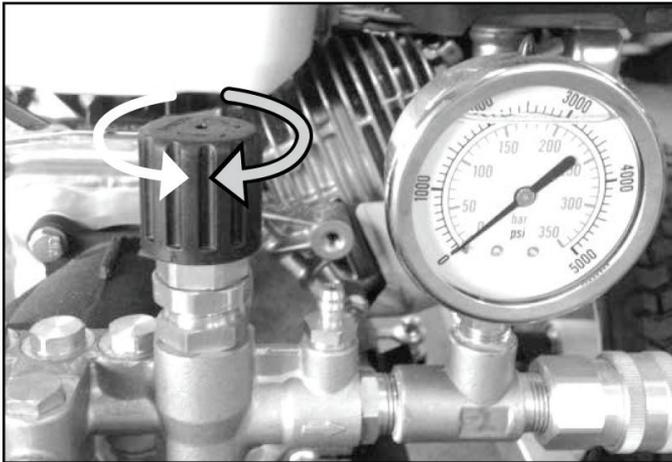
How to Change Spray Tip

Choose desired spray tip, pull back nozzle extension collar, insert spray tip and release collar. Tug on spray tip to make sure it is securely in place. See Spray Tips.



To adjust the pressure:

- To increase pressure, rotate the knob clockwise.
- To decrease the pressure, rotate the knob counter-clockwise.





USING BLACK SOAP NOZZLE

To apply detergent, Follow these steps:

1. Review use of spray tips.
2. Prepare detergent solution as required by job.
3. Place small filter end of detergent siphoning tube into detergent container.

NOTE: Make sure the filter is fully submerged in detergent while applying detergent.

THIS WASHER WILL ONLY DRAW SOAP WITH THE BLACK SOAPER NOZZLE. WHITE, RED, GREEN AND YELLOW NOZZLE WILL NOT DRAW SOAP.

4. Make sure black spray tip is installed.
5. Make sure garden hose is connected to water inlet. Check that high pressure hose is connected to spray gun and pump. Turn on water.

NOTICE

You must attach all hoses before you start the engine.

- Starting the engine without all the hoses connected and without the water turned ON will damage the pump.
- Damage to equipment resulting from failure to follow this instruction will void warranty.

6. Start engine following instructions “Starting Your Washer.”
7. Apply detergent to surface, using long, even, overlapping strokes.
8. Allow detergent to “soak in” for 5 minutes before washing and rinsing. Reapply as needed to prevent surface from drying. DO NOT allow detergent to dry on.

IMPORTANT: You must flush the detergent siphoning system after each use by placing the filter into a bucket of clean water, then run the pressure blaster in low pressure for 1-2 minutes.

⚠ CAUTION

Chemicals can cause bodily injury and/or property damage.

- NEVER use caustic liquid with pressure washer.
- Use ONLY pressure washer safe detergent/soaps. Follow all manufacturers instructions



TROUBLESHOOTING

Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, or have checked all the possible cause listed and you are still experiencing the problem. Please Contact Customer Service at 1-866-338-7519.

GASOLINE ENGINES

Problem	Cause	Correction
Unit has following problems: failure to produce pressure, erratic pressure, chattering, loss of pressure, low water volume.	<ol style="list-style-type: none"> 1. Low pressure spray tip installed. 2. Water inlet is blocked. 3. Inadequate water supply. 4. Inlet hose is kinked or leaking. 5. Clogged inlet hose screen. 6. Water supply is over 100°F (38°C). 7. High pressure hose is blocked or leaks. 8. Spray gun leaks. 9. Spray tip is obstructed. 10. Pump is faulty. 	<ol style="list-style-type: none"> 1. Replace with high pressure spray tip. 2. Clear inlet. 3. Provide adequate water flow. 4. Straighten inlet hose, patch leak. 5. Check and clean inlet hose screen. 6. Provide cooler water supply. 7. Clear blocks in outlet hose. 8. Replace spray gun. 9. Clean spray tip. 10. Contact local service facility.
Detergent fails to mix with spray.	<ol style="list-style-type: none"> 1. Detergent siphoning tube is not submerged. 2. Detergent siphoning tube/filter is clogged or cracked. 3. High pressure spray tip installed. 	<ol style="list-style-type: none"> 1. Insert detergent siphoning tube into detergent. 2. Clean or replace filter/detergent siphoning tube. 3. Replace with low pressure spray tip.
Engine lacks power.	<ol style="list-style-type: none"> 1. Dirty air filter. 	<ol style="list-style-type: none"> 1. Replace air filter.
Engine will not start	<ol style="list-style-type: none"> 1. Throttle lever on/off switch in OFF position 2. No fuel in engine 3. Worn fouled or dirty spark plug 4. Pressure build up in pump 	<ol style="list-style-type: none"> 1. Turn throttle lever to ON position 2. Fill fuel tank or turn on fuel supply 3. Replace with factory recommended spark plug 4. Squeeze trigger on spray wand (refer to operating instructions in owner's manual)
Units with Oil Alert	<p>Engine not level or Engine oil level too low</p>	<p>Place engine on level surface or Fill crankcases with SAE 10W30 oil (refer to engine manufacturers instruction manual)</p>
Engine runs well at no load but "bogs" down under full load	<ol style="list-style-type: none"> 1. Engine speed is too slow 	<ol style="list-style-type: none"> 1. Adjust Throttle Lever back to full throttle.



TROUBLESHOOTING

Engine will not start; or starts and runs rough	<ol style="list-style-type: none"> 1. Low oil level 2. Dirty air cleaner 3. Out of gasoline 4. Stale gasoline 5. Spark plug wire not connected to spark plug 6. Bad spark plug 7. Water in gasoline 8. Over-choking 	<ol style="list-style-type: none"> 1. Fill crankcase to proper level 2. Clean or replace air cleaner 3. Fill fuel tank 4. Drain gas tank, fill with fresh fuel 5. Connect wire to spark plug 6. Replace spark plug 7. Drain gas tank, fill with fresh fuel 8. Open choke fully and crank engine
Engine shuts down during operation	<ol style="list-style-type: none"> 1. Out of gasoline 2. Low oil level 	<ol style="list-style-type: none"> 1. Fill fuel tank 2. Fill crankcase with oil, to proper level
Engine lacks power	<ol style="list-style-type: none"> 1. Dirty air filter 	<ol style="list-style-type: none"> 1. Replace air filter
Engine "putts" or falters	<ol style="list-style-type: none"> 1. Choke is opened too soon 	<ol style="list-style-type: none"> 1. Move choke to halfway position until engine runs smoothly <p>* All engine servicing to be taken to manufacturer's authorized service outlet</p>

PUMP

Problem	Causes	Correction
No low pressure detergent delivery	<ol style="list-style-type: none"> 1. Using wrong nozzle 2. Siphon hose or filter is plugged 	<ol style="list-style-type: none"> 1. Insert black soaper nozzle 2. Unplug siphon hose
Unit does not reach required pressure	<ol style="list-style-type: none"> 1. Restricted or insufficient water supply 2. Unsuitable or worn out nozzle 3. Regulator set too low 	<ol style="list-style-type: none"> 1. Check supply hose, faucet and inlet water filter. Must be connected to water source which provides 6GPM 2. Replace nozzle 3. Reset unloader by turning knob (clockwise increases pressure)
Thermal Relief Valve is open and discharging water from side of pump	<ol style="list-style-type: none"> 1. Water temperature is too high 2. Pump has operated more than 1 min without pulling trigger 	<ol style="list-style-type: none"> 1. Use cool water only. 2. Pull trigger at least 30 seconds every 1 min
Leak in the fittings	<ol style="list-style-type: none"> 1. Water leak in high pressure fittings, hose or gun 	<ol style="list-style-type: none"> 1. Use teflon tape or pipe sealant to tighten hose fitting, replace hose or gun <p>**If problem continues, take to your pressure washer dealer</p>
Pump oil is low?	<ol style="list-style-type: none"> 1. Normal use consumes oil over time 	<ol style="list-style-type: none"> 1. To gauge the oil level, look directly into the sight glass. Oil level should always be at the center dot. Do not overfill replace w/30W non detergent mineral oil
Oil is milky color	<ol style="list-style-type: none"> 1. Seals have worn from use and water has leaked in 	<ol style="list-style-type: none"> 1. Bring Unit local service center to have seals replaced



STORAGE

Winter Storage

NOTICE

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

To protect the unit from freezing temperatures:.

1. Use Pump Saver to treat pump. This minimizes freeze damage and lubricates pistons and seals. Contact your local dealer for Pump Saver Solution.
2. If pump saver is not available, connect a 3 ft. section of garden hose to water inlet adapter. Pour RV-antifreeze (antifreeze without alcohol) into hose. Pull recoil handle twice. Disconnect 3 ft. hose.
3. Store unit in a clean, dry area (heated area preferred).

Long Term Storage

If you do not plan to use the pressure blaster for more than 30 days, you must prepare the engine and pump for long term storage.

Protect Fuel System

Fuel Additive:

Fuel will become stale when stored over 30 days. Stale fuel causes acids and gum deposits to form in the fuel system or on essential carburetor parts. Prior to storage, if gasoline has not been treated with a fuel stabilizer, it must be drained from the engine into an approved container. Then run engine until it stops from lack of fuel.

When fuel stabilizers are used according to their instructions, there is no need to drain the gasoline from the engine prior to storage. Run the engine for a short time to circulate stabilizer throughout the fuel system. Engine and fuel can then be stored up to 24 months.

If gasoline is drained, the use of a fuel stabilizer in the storage container is still recommended to maintain freshness.

Storing the Engine

See the engine operator's manual for instructions on how to properly prepare the engine for storage.

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1. DO NOT store fuel from one season to another unless it has been treated as described in Protect Fuel System.
2. Replace fuel container if it starts to rust. Rust and/or dirt in fuel can cause problems if it's used with this unit.
3. Cover unit with a suitable protective cover that does not retain moisture.

WARNING



Storage covers can be flammable.

- DO NOT place a storage cover over a hot pressure washer.
- Let equipment cool for a sufficient time before placing the cover on the equipment.

4. Store unit in clean and dry area.

ASSEMBLY KIT

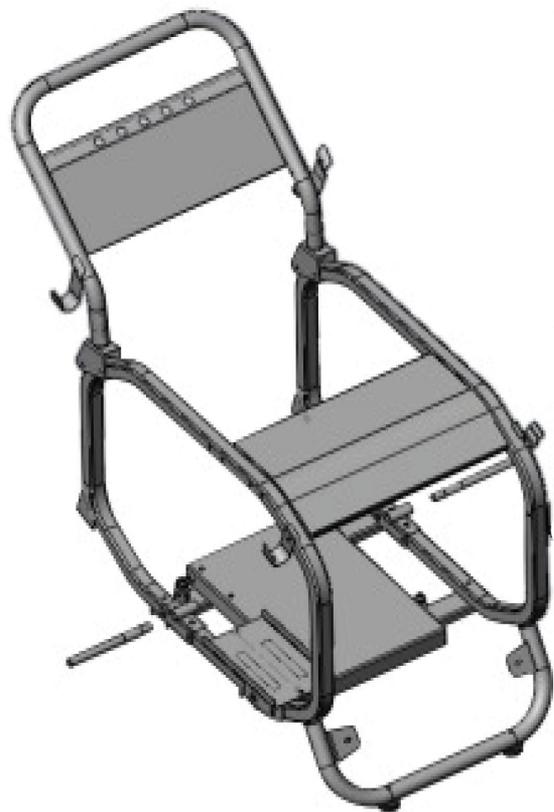
1. 1/4" – 20 x 2" Hex Bolt (2)
2. 1/4" – 20 x 1 3/4" Hex Bolt (3)
3. 1/4" Flange Nut (5)
4. 1/4" SAE Flat Washer (5)
5. Rue Ring Cotter Pin (2)
6. Hose Bracket (1)
7. Top Wand Bracket (2)
8. Bottom Wand Bracket (2)
9. 15" Tire (2)
10. Axle (2)
11. Axle Spacer (2)
12. 1/4" – 20 x 3/4" Hex Bolt (1)



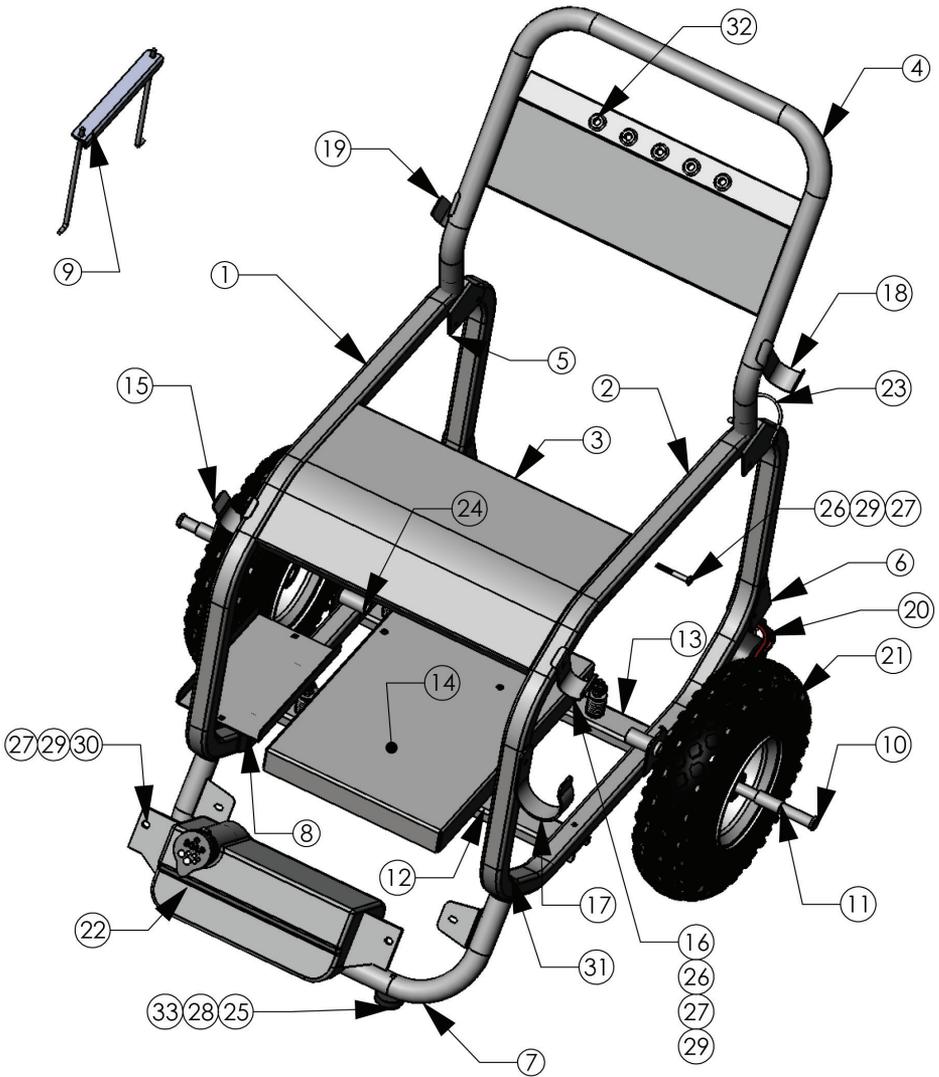


ASSEMBLY KIT

1. Slide axle spacer (#11) onto axle (#10).
2. Insert axle (# 10) onto 15" Tire (#9) and slide onto the axle Bracket on the frame.
3. Push Rue Ring Cotter Pin (#5) into back of axle.
4. Attach Hose Bracket (#6) to bottom right side of the frame using 1 each Hex Bolt (#2) SAE Flat Washer (#4) and Flange Nut (#3).
5. Attach both bottom Wand Brackets to frame using 2 each Hex Bolt (#2) SAE Flat Washer (#4) and Flange Nut (#3).
6. Attach both Top Wand Brackets to frame using 2 each Hex Bolt (#1) SAE Flat Washer (#4) and Flange Nut (#3).
7. Attach Red Battery Cable to the + side of the Battery using 1 each of Hex Bolt (#12) Flange Nut (#3). Slide the Red Battery Cover over Battery Post.



FRAME ASSEMBLY





FRAME ASSEMBLY

ITEM NO.	PART DESCRIPTION	QTY
1	FRAME RIGHT SIDE	1
2	FRAME LEFT SIDE	1
3	FRONT HOOD	1
4	HANDLE ASSEMBLY	1
5	HANDLE BRACKET	2
6	CASTER BRACKET	2
7	FOOT BAR	1
8	BATTERY BOX	1
9	BATTERY BRACKET	1
10	AXLE	2
11	WHEEL SPACER	2
12	SPRINGS W/CROSS BAR FRONT	1
13	SPRINGS W/ CROSS BAR BACK	1
14	BASE PLATE	1
15	WAND BRK BOTTOM RIGHT SIDE	1
16	WAND BRK BOTTOM LEFT SIDE	1
17	HOSE BRACKET	1
18	WAND BRK TOP LEFT SIDE	1
19	WAND BRK TOP RIGHT SIDE	1
20	CASTER ASSEMBLY	2
21	15" TIRE	2
22	SOAP TANK	1
23	ROUND BALE PINS	2
24	RUE RING COTTER PIN	2
25	1/4"-20 X 2" HEX BOLT	12
26	1/4"-20 X 1 3/4"HEX BOLT	11
27	1/4" -20 FLANGE NUT	23
28	1/4" - 20 NYLON LOCK NUT	2
29	1/4" SAE FLAT WASHER	25
30	1/4" -20 X3/4 " HEX BOLT	2
31	5/16-18 X 2" FLAT HEAD SOCKET CAP SCREW	2
32	GROMMET	5
33	RUBBER BUMPER	2



LIMITED WARRANTY

SC Power Tech equipment is warranted to be free from defects in material and workmanship for a period of TWO years after date of purchase.

Exceptions are high pressure gun, lance and supply hose which have a One year warranty.

Normal wear and tear items, such as ceramic nozzles and quick couplers are not covered.

THERE IS NO OTHER WARRANTY MADE OR IMPLIED AND THE WARRANTOR DISCLAIMS ALL OTHER WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF PERFORMANCE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OWNER'S SOLE REMEDY FOR BREACH OF WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE DEFECTIVE EQUIPMENT OR COMPONENT OR PART THEREOF, AT THE WARRANTOR'S DISCRETION, IN ACCORDANCE WITH THE WRITTEN LIMITED WARRANTY. THE WARRANTOR HAS NOT AUTHORIZED ANY PERSON TO MODIFY, ALTER OR EXPAND THE WARRANTIES CONTAINED IN THIS DOCUMENT.

**If you need assistance with
the assembly or operation of this
PBS Hopper Cart please call**

1-866-338-7519

www.TyphoonBlaster.com