

4.5 Horsepower Pressure Washer with 4400 Cleaning Units

(Model DT2200P)



PART NO. D25130 Rev. 0
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please call 1-866-422-4286

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GENERAL INFORMATION

- Congratulations! You have purchased a high quality product from America's leading manufacturer of pressure washers. This pressure washer, when properly used and maintained, will provide trouble free service. Please read and follow these instructions for proper use and maintenance.
- All sales of pressure washers are final. Do not return this product to the retailer.
- If you experience any problems and need assistance, please call us at our toll free number **1-866-422-4286, Monday through Saturday, 8:00 a.m. To 6:00 p.m. C.S.T.**
- If repair or service part purchase is required, our many Authorized Warranty Service Centers are conveniently located and equipped to handle all in-warranty and out-of-warranty service.
- For the location of the nearest Authorized Warranty Service Center call 1-866-422-4286, 24 hours a day, 7 days a week or visit our web site @ www.deltamachinery.com.
- All pressure washers carry a manufacturer's one year warranty from date of purchase for consumer use and a 90 day warranty for commercial use.
- Retain sales receipt as proof of purchase for warranty service.
- Do not operate this unit until you have read and understand this Owners Manual for Safety, Operation, and Maintenance Instructions.
- Do not operate this unit until you have read and understand the Engine Owners Manual for Safety, Operation, and Maintenance Instructions.

⚠ WARNING Read Operator's Manual. Do not operate equipment until you have read Operator's Manual for **Safety, Assembly, Operation, and Maintenance Instructions.**

⚠ WARNING This product may not be equipped with a spark arresting muffler. If the product is not equipped and will be used around flammable materials, or on land covered with materials such as agricultural crops, forest, brush, grass, or other similar items, then an approved spark arrester must be installed and is legally required in the state of California. It is a violation of California statutes section 130050 and/or sections 4442 and 4443 of the California Public Resources Code, unless the engine is equipped with a spark arrester, as defined in section 4442, and maintained in effective working order. Spark arrester are also required on some U.S. Forest Service land and may also be legally required under other statutes and ordinances.

Engine exhaust contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting **YOUR SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. To help you recognize this information, we use the symbols below. Please read and understand the manual and pay attention to these symbols.

<p>▲ DANGER indicates an imminently hazardous situation which, if not avoided, <u>will</u> result in <u>death or serious injury</u>.</p>	<p>▲ CAUTION indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>minor or moderate injury</u>.</p>
<p>▲ WARNING indicates a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.</p>	<p>CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>property damage</u>.</p> <p style="text-align: right;"><small>10/2/97</small></p>

IMPORTANT SAFETY INSTRUCTIONS

HAZARD

▲ DANGER RISK OF EXPLOSION OR FIRE



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> • Spilled gasoline and its vapors can become ignited from cigarette sparks, electrical arcing, exhaust gases, and hot engine components such as the muffler. • Heat will expand fuel in the tank which could result in spillage and possible fire explosion. • Operating the pressure washer in an explosive environment could result in a fire. • Materials placed against or near the pressure washer can interfere with its proper ventilation features causing overheating and possible ignition of the materials. • Muffler exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, or vinyl), and damage live plants. 	<ul style="list-style-type: none"> • Shut off engine and allow it to cool before adding fuel to the tank. • Use care in filling tank to avoid spilling fuel. Move pressure washer away from fueling area before starting engine. • Keep maximum fuel level ½” below top of tank to allow for expansion. • Operate and fuel equipment in well ventilated areas free from obstructions. Equip areas with fire extinguishers suitable for gasoline fires. • Never operate pressure washer in an area containing dry brush or weeds. • Always keep pressure washer a minimum of four feet away from surfaces (such as houses, automobiles, or live plants) that could be damaged from muffler exhaust heat.

HAZARD

⚠ DANGER

RISK OF EXPLOSION OR FIRE (continued)



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Improperly stored fuel could lead to accidental ignition. Fuel improperly secured could get into the hands of children or other unqualified persons.• Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.	<ul style="list-style-type: none">• Store fuel in an OSHA approved container, in a secure location away from work area.• Do not spray flammable liquids

HAZARD

⚠ DANGER

RISK TO BREATHING



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Breathing exhaust fumes will cause serious injury or death.• Some cleaning fluids contain substances which could cause injury to skin, eyes, or lungs.	<ul style="list-style-type: none">• Operate pressure washer in a well ventilated area. Avoid enclosed areas such as garages, basements ,etc.• Never operate unit in a location occupied by humans or animals.• Use only cleaning fluids specifically recommended for high pressure washers. Follow manufacturers recommendations. Do not use chlorine bleach or any other corrosive compound

HAZARD

⚠ WARNING

RISK OF UNSAFE OPERATION



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> • Unsafe operation of your pressure washer could lead to serious injury or death to you or others. • If proper starting procedure is not followed, engine can kickback causing serious hand and arm injury. • The spray gun/wand is a powerful cleaning tool that could look like a toy to a child. • Reactive force of spray will cause gun/wand to move, and could cause the operator to slip or fall, or misdirect the spray. Improper control of gun/wand can result in injuries to self and others. 	<ul style="list-style-type: none"> • Become familiar with the operation and controls of the pressure washer. • Keep operating area clear of all persons, pets, and obstacles. • Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times. • Never defeat the safety features of this product. • Do not operate machine with missing, broken, or unauthorized parts. • Never leave wand unattended while unit is running. • If engine does not start after two pulls, squeeze trigger of gun to relieve pump pressure. Pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury. • Keep children away from the pressure washer at all times. • Do not overreach or stand on an unstable support. Grip gun/wand firmly with both hands. Expect the gun to kick when triggered.

HAZARD

⚠ WARNING

RISK OF ELECTRICAL SHOCK



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> • Spray directed at electrical outlets or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock. 	<ul style="list-style-type: none"> • Unplug any electrically operated product before attempting to clean it. Direct spray away from electric outlets and switches.

HAZARD

⚠ WARNING

RISK TO FLUID INJECTION



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Your washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. Leaks caused by loose fittings or worn or damaged hoses can result in injection injuries. DO NOT TREAT FLUID INJECTION AS A SIMPLE CUT! See a physician immediately!• Relieve system pressure before attempting maintenance or disassembly of equipment.	<ul style="list-style-type: none">• Never place hands in front of nozzle.• Direct spray away from self and others.• Make sure hose and fittings are tightened and in good condition. Never hold onto the hose or fittings during operation.• Do not allow hose to contact muffler.• Never attach or remove wand or hose fittings while system is pressurized.• Use only hose and high pressure accessories rated for pressure higher than your pressure washer's p.s.i.• To relieve system pressure, shut off engine, turn off water supply, and pull gun trigger until water stops flowing.

HAZARD

⚠ WARNING

RISK OF CHEMICAL BURN



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.	<ul style="list-style-type: none">• Do not use acids, gasoline, kerosene, or any other flammable materials in this product. Use only household detergents, cleaners and degreasers recommended for use in pressure washers.• Wear protective clothing to protect eyes and skin from contact with sprayed materials.• Do not use chlorine bleach or any other corrosive compound.

HAZARD

▲ WARNING RISK OF HOT SURFACES



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Contact with hot surfaces, such as engines exhaust components, could result in serious burn.	<ul style="list-style-type: none">• During operation, touch only the control surfaces of the pressure washer. Keep children away from the pressure washer at all times. They may not be able to recognize the hazards of this product.

HAZARD

▲ WARNING RISK OF INJURY AND PROPERTY DAMAGE WHEN TRANSPORTING OR STORING

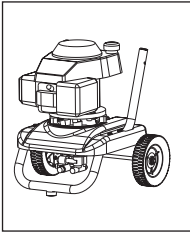


WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Fuel or oil can leak or spill and could result in fire or breathing hazard, serious injury or death can result. Fuel or oil leaks will damage carpet, paint or other surfaces in vehicles or trailers.	<ul style="list-style-type: none">• If pressure washer is equipped with a fuel shut-off valve, turn the valve to the off position before transporting to avoid fuel leaks. If pressure washer is not equipped with a fuel shut-off valve, drain the fuel from tank before transporting. Only transport fuel in an OSHA approved container. Always place pressure washer on a protective mat when transporting to protect against damage to vehicle from leaks. Remove pressure washer from vehicle immediately upon arrival at your destination.

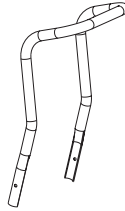
▲ CAUTION The powerful spray from your pressure washer is capable of causing damage to surfaces such as wood, glass, automobile paint, auto striping and trim, and delicate objects such as flowers and shrubs. Before spraying, check the item to be cleaned to assure yourself that it is strong enough to resist damage from the force of the spray. Avoid the use of the concentrated spray stream except for very strong surfaces like concrete and steel.

Operating without flow of water will result in equipment damage. Operating the pressure washer with water supply shutoff will void your warranty. You should never run this pressure washer for more than 2 minutes without pulling the trigger to allow cool water to enter the pump and the heated (recirculated) water to exit.

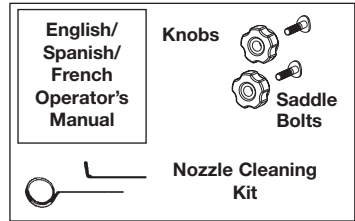
BOX CONTENTS



Engine Frame and
Wheel Assembly



Handle



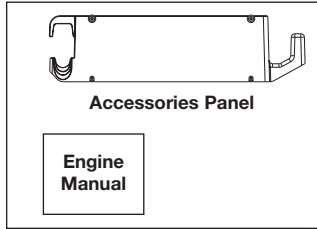
Bagged Parts



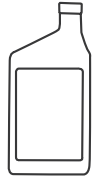
High Pressure
Hose



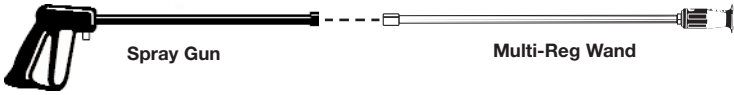
Chemical Hose



Bagged Accessories Panel



Engine Oil

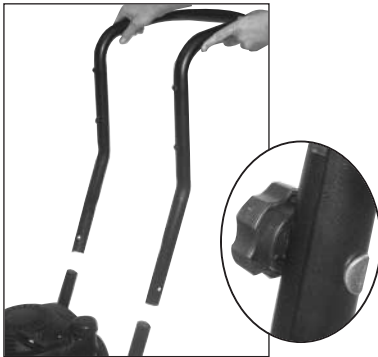


Spray Gun

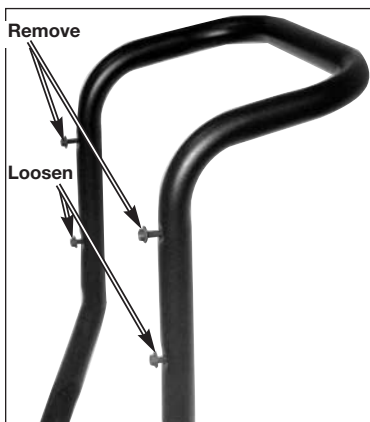
Multi-Reg Wand

ASSEMBLY

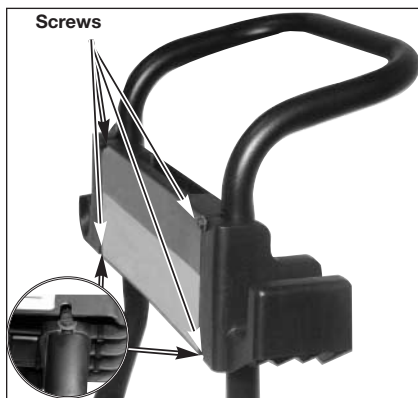
1. Place handle assembly onto frame and connect handle to frame.
2. Connect wand to gun. Tighten securely.
3. Attach high pressure hose to gun. Tighten securely.



5. To Assemble Accessories Panel
 - a. Remove top screws on handle assembly.
 - b. Loosen bottom screws on handle assembly.



- c. Place grooves in accessories panel assembly onto screws and slide panel assembly into place.



- d. Place screws (removed earlier) into the top holes and secure accessories panel assembly to handles. Do not overtighten.
6. Add engine oil (supplied) to engine. Refer to engine manual supplied by engine manufacturer for correct procedure.

NOTE: There will be a slight amount of oil in the engine from factory testing.

NOTE: The high pressure pump was filled with oil at the factory. There is no need to add oil at this time, see the Maintenance section of this manual for Maintenance information.

OPERATION

Know Your Pressure Washer

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR UNIT. Compare the illustrations with your unit to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.



PRESSURE WASHER

High Pressure Pump: Increases the pressure of the water supply.

Engine: Drives the high pressure pump.

High Pressure Hose: Carries the pressurized water from the pump to the gun and wand.

Spray Gun: Connects with wand to control water flow rate, direction, and pressure.

Multi-Reg Wand: Has a spray nozzle which adjust from a pencil stream (0°) to a wide angle fan spray (40°). The spray can be adjusted by twisting the nozzle clockwise and/or counter-clockwise. Also, the high and low pressure settings can be controlled by moving the nozzle in and out. See Operation section.

Chemical Hose: Allows cleaners or cleaning solvents to be mixed with the pressurized water stream. See How To Siphon Chemicals/Cleaning Solvents in Operation section of this manual.

ENGINE

Refer to the engine manual for location and operation of engine controls.

PRESSURE WASHER TERMINOLOGY

NOTE: Become familiar with this terminology before operating.

PSI: Pounds per Square Inch. The unit of measure for water pressure. Also used for air pressure, hydraulic pressure, etc.

GPM: Gallons Per Minute. The unit of measure for the flow rate of water through the pressure washer.

CU: Cleaning Units. GPM multiplied by PSI.

Bypass Mode: In Bypass Mode, the pump is recirculating water because the trigger of the spray gun is not pulled. If unit is left in bypass mode for more than two (2) minutes, the water temperature will rise to a dangerous level and can damage internal components of the pump. Any damage to pump due to these causes will not be covered under warranty.

CAUTION DO NOT allow your unit to operate in bypass mode for more than two minutes at any time. Overheating of pump will cause damage to pump.

Thermal Relief Valve:

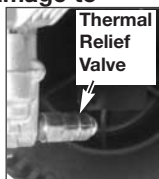
In an effort to prevent damage, pumps are equipped with a thermal relief valve. This valve will open when the temperature inside the pump rises too high. This valve will then release a gush of water in an effort to lower the temperature inside the pump. Immediately after this occurs, the valve will close.

Chemical Injection: Feeds cleaning agents into the pump to mix with the pressurized water and help in cleaning.

Water Supply: All pressure washers must have a source of water. The minimum requirements for a water supply are 20 PSI and 5 gallons per minute.

HOW TO USE

IMPORTANT: Read and understand how to use the pressure washer before operating.



TO ADJUST PRESSURE

The pressure setting is preset at the factory to achieve optimum pressure and cleaning. If you need to lower the pressure, it can be accomplished by these methods.

1. Back away from the surface to be cleaned. The further away you are, the less the pressure will be on the surface to be cleaned.
2. Reduce the speed of the gasoline engine (RPM). Slow the engine down and the water pressure will go down with it.

CAUTION DO NOT attempt to increase pump

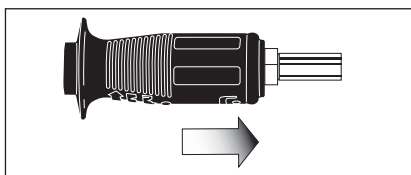
pressure. A higher pressure setting than the factory set pressure may damage pump.

TO USE WAND

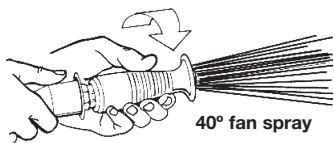
Your pressure washer is equipped with a multi-reg wand with both high and low pressure settings. The high pressure setting is for cleaning and rinsing, the low pressure setting is for applying chemicals or cleaning solutions to surfaces.

WARNING Risk of injection or injury to person. Do not direct discharge stream toward persons, unprotected skin, eyes, or any pets or animals. Serious injury can occur.

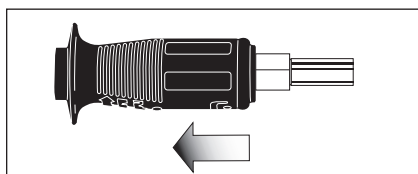
For high pressure operation, pull back the nozzle of the multi-reg wand as shown.



The nozzle at the end of the multi-reg wand can be rotated to change the high pressure spray pattern from a narrow jet to a 40° fan shape, as shown. Markings have been placed on the nozzle to help you select the spray pattern.



For low pressure operation, extend the nozzle of the multi-reg wand as shown.

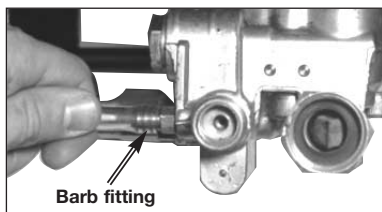


TO SIPHON CHEMICALS/CLEANING SOLVENTS

Siphoning chemicals or cleaning solvents is a low pressure operation.

NOTE: Use only soaps and chemicals designed for pressure washer use. Do not use bleach.

1. Press chemical hose onto barbed fitting located near high pressure hose connection of pump as shown.



2. Place other end of chemical hose with filter on it into container holding chemical/cleaning solution.
3. Set multi-reg nozzle to low pressure setting, see **How To Use Wand** paragraph in this section.
4. After use of chemical, siphon clean water through chemical hose to rinse it and pump clean. Chemicals which remain in pump can damage it. Damage to pump due to chemicals will not be covered under warranty.

NOTE: Chemicals and soap will not siphon when wand is in the high pressure setting.

TO SHUT DOWN

IMPORTANT: Read and understand how to shut down the pressure washer before operating.

1. If you have siphoned chemicals, siphon a bucket of clean water through the chemical hose.
NOTE: Failure to do so will cause damage to the pump.
2. Refer to engine manual for correct engine shut down procedure.

NOTE: NEVER turn the water off with the engine running.

3. Turn water source off.
4. Pull trigger on spray gun to relieve any water pressure in hose or spray gun.
5. See Storage section in this manual for proper storage procedures.

BEFORE STARTING

Read and understand all Important Safety Instructions in the front of this manual and the following Cautions and Warnings before starting the pressure washer.

⚠ WARNING

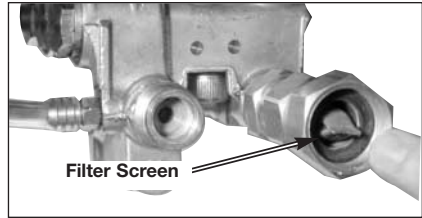
- Never fill fuel tank completely. Fill tank to 1/2" below bottom of filler neck to provide space for fuel expansion. Wipe any fuel spillage from engine and equipment before starting engine.
- Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.
- Never run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

⚠ CAUTION

- Never turn water supply off while pressure washer engine is running or damage to pump will result.
 - DO NOT use hot water, use cold water only.
 - DO NOT stop spraying water for more than two minutes at a time.
1. Add fresh high quality unleaded gasoline with a pump octane rating of 86 or higher. Do not over-fill. Wipe up spilled fuel before starting the engine. Refer to engine manual for correct procedure.
 2. Check engine oil. Refer to the engine manual for correct procedure.

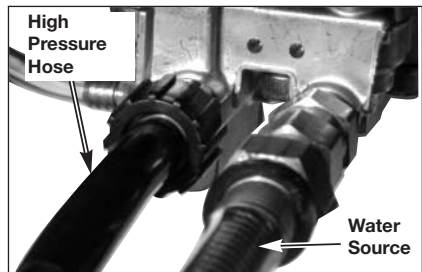
NOTE: There will be a slight amount of oil in the engine form factory tying.

3. Verify the filter screen is in water inlet of pump, as shown.



4. Connect high pressure hose to pump outlet.
5. Connect water source to pump inlet.

NOTE: Water source must provide a minimum of 5 gallons per minute at 20 p.s.i.



6. If you are applying a chemical or cleaning solution, See **How To Siphon Chemicals/Cleaning Solvents** in Operation section of this manual.
7. Turn water source on.

NOTE: Make sure water supply is turned on.

8. Start engine, refer to engine manual for correct procedure.

⚠ WARNING If the engine does not start after two pulls, pull the trigger to relieve the pressure.

9. Depress trigger on gun to start water flow. Release trigger to stop water flow.
10. Adjust nozzle spray for the task being performed. See **How To Use Wand** instructions in this section.

⚠ WARNING DO NOT let hoses come in contact with very hot engine muffler during or immediately after use of your pressure washer.

MAINTENANCE

⚠ DANGER WHEN PERFORMING MAINTENANCE, YOU MAY BE EXPOSED TO HOT SURFACES, WATER PRESSURE, MOVING PARTS, OR FIRE RESULTING IN DEATH. BEFORE PERFORMING ANY MAINTENANCE OR REPAIR, DISCONNECT SPARK PLUG WIRE, LET ENGINE COOL AND RELEASE ALL WATER PRESSURE. THE ENGINE CONTAINS FLAMMABLE FUEL. DO NOT SMOKE OR WORK NEAR OPEN FLAMES WHILE PERFORMING MAINTENANCE.

To ensure efficient operation and longer life of your pressure washer, a routine maintenance schedule should be prepared and followed. If the pressure washer is used in unusual conditions, such as high-temperatures or dusty conditions, more frequent maintenance checks will be required.

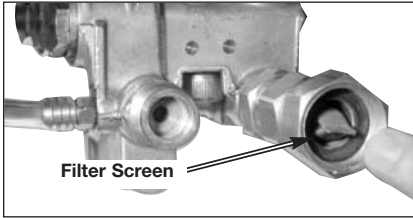
CUSTOMER RESPONSIBILITIES TABLE

MAINTENANCE TASK	Before each use	Every 25 hours or yearly	Every 50 hours or yearly	Every 100 hours or yearly
PRESSURE WASHER				
check high pressure hose	X			
check soap and chemical hose and filter	X			
check gun and wand for leaks	X			
prepare for storage	Prepare unit for storage if it is to remain idle for longer than 30 days			
HIGH PRESSURE PUMP				
check/clean inlet screen	X			
check/change oil*				
* The oil in the high pressure pump was designed to last the life of the pump. If there is a problem with the pump contact an Authorized Service Center.				
ENGINE				
Refer to engine manual for the manufacturer's recommendations for any and all maintenance.				

PUMP

This screen filter should be checked periodically and cleaned if necessary.

1. Remove filter by grasping end and removing it from water inlet of pump as shown.
2. Clean filter by flushing it with water on both sides.
3. Install filter into water inlet of pump

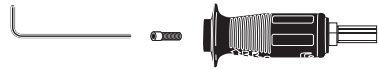


WAND

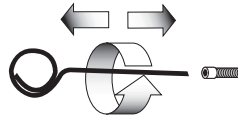
If the nozzle becomes clogged with foreign materials, such as dirt, excessive pressure may develop. If the nozzle becomes partially clogged or restricted, the pump pressure will pulsate. Clean the nozzle immediately using the nozzle kit supplied and the following instructions:

1. Shut off the pressure washer and turn off the water supply.
2. Disconnect spark plug wire.
3. Pull trigger on gun handle to relieve any water pressure.
4. Disconnect the wand from the gun.

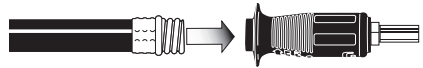
5. Remove the nozzle from the end of the wand with the 2mm allen wrench provided as shown.



6. Clean the nozzle using the nozzle cleaner provided or a straightened paper clip. Insert into the nozzle end and work back and forth until obstruction is removed.



7. Direct water supply into nozzle end to backflush loosened particles for 30 seconds.



8. Reconnect spark plug wire.
9. Reassemble the nozzle to the wand. Tighten securely to prevent leaks.
10. Reconnect wand to gun and turn on water supply.
11. Start pressure washer and place wand into high pressure setting to test.

STORAGE

ENGINE

Refer to the engine manual for the manufacturer's recommendations for storage.

PUMP

It is recommended that you follow these steps to protect the internal seals of the pressure washer when **storing the unit for an extended period and WHEN FREEZING TEMPERATURES ARE EXPECTED.**

NOTE: If storing the unit for more than 30 days RV antifreeze or windshield washer fluid needs to be run through the pump. This helps prevent damage within the pump head. RV antifreeze or windshield washer fluid is not only added for winterizing, but for proper lubrication regardless of temperature or environment. Storing the pump less than 30 days does not require the RV antifreeze or windshield washer fluid.

1. Obtain a funnel, six ounces of RV antifreeze or windshield washer fluid, and approximately 12 inches of garden hose with a male hose connector attached to one end.

⚠ CAUTION Use only RV antifreeze. Any other antifreeze is corrosive and can damage pump.

2. Disconnect spark plug wire.
3. Disconnect high pressure hose from pump and from spray gun.

4. Connect 12 inch length of hose to water inlet of pump.
5. Add RV antifreeze or windshield washer fluid to hose as shown.



6. Pull engine starter rope slowly several times until antifreeze or windshield washer fluid comes out of high pressure hose connection of pump.
7. Remove short hose from water inlet of pump.
8. Reconnect spark plug wire.
9. Drain all water from high pressure hose, coil it, and store it in cradle of the pressure washer handle.
10. Drain all water from spray gun and wand by holding spray gun in a vertical position with nozzle end pointing down and squeezing trigger. Store in gun/hose holder.
11. Store chemical hose, high pressure hose, spray gun, and wand so they are protected from damage, such as being run over.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	CORRECTION
<p>Engine will not start (see Engine Manual for further engine troubleshooting)</p>	<ol style="list-style-type: none"> 1. No fuel. 2. Pressure builds up after two pulls on the recoil starter or after initial use. 3. Not choked. 4. Spark plug wire not attached. 5. Choke lever in the "Choke" position on a "hot" engine or an engine that has been exposed to thermal heat for a long period of time. 6. Fuel valve closed 	<ol style="list-style-type: none"> 1. Add Fuel. 2. Squeeze gun trigger to relieve pressure. 3. Choke engine, place engine in the choke position. 4. Attach spark plug wire. 5. Move choke to the "No Choke" position. 6. Move the fuel valve knob to the "Open" position.
<p>No or low pressure (initial use)</p>	<ol style="list-style-type: none"> 1. Wand not in high pressure. 2. Low water supply. 3. Leak at high pressure hose. 4. Nozzle obstructed. 5. Water filter screen clogged. 	<ol style="list-style-type: none"> 1. See How to Use Wand paragraph in the Operation Section. 2. Water supply must be at least 5 GPM @ 20 PSI. 3. Repair leak. Apply sealant tape if necessary. 4. Clean nozzle with paper clip or nozzle cleaning tool, pour water into nozzle end to flush out obstruction. 5. Remove and clean filter.

PROBLEM	CAUSE	CORRECTION
<p>No or low pressure (initial use) (continued)</p>	<p>6. Air in hose.</p> <p>7. Choke lever in the "Choke" position.</p> <p>8. Throttle control lever is not in the "Fast" position.</p> <p>9. High pressure hose is too long.</p>	<p>6. Turn off the engine, then the water source. Disconnect the water source from the pump inlet and turn the water source on to remove all air from the hose. When there is a steady stream of water present, turn water source off. Reconnect water source to pump inlet and turn on water source. Squeeze trigger to remove remaining air.</p> <p>7. Move choke to the "No Choke" position.</p> <p>8. Move throttle control lever to the "Fast" position.</p> <p>9. Use high pressure hose under 100 feet.</p>
<p>Will not draw chemicals</p>	<p>1. Wand not in low pressure.</p> <p>2. Chemical filter clogged.</p> <p>3. Chemical screen not in chemical</p> <p>4. Chemical too thick</p> <p>5. Pressure hose is too long</p> <p>6. Chemical build up in chemical injector.</p>	<p>1. See How to Use Wand paragraph in the Operation Section.</p> <p>2. Clean filter.</p> <p>3. Insure end of chemical hose is fully submerged into chemical.</p> <p>4. Dilute chemical. Chemical should be the same consistency as water.</p> <p>5. Lengthen water supply hose instead of pressure hose.</p> <p>6. Have parts cleaned or replaced by AWSC.</p>

PROBLEM	CAUSE	CORRECTION
No or low pressure (after period of normal use.)	<ol style="list-style-type: none"> 1. Worn seal or packing. 2. Worn or obstructed valves. 3. Worn unloader piston. 	<ol style="list-style-type: none"> 1. Have replaced by AWSC. 2. Have replaced by AWSC. 3. Have replaced by AWSC.
Water leaking at gun/wand connection	<ol style="list-style-type: none"> 1. Worn or broken o-ring. 2. Loose hose connection. 	<ol style="list-style-type: none"> 1. Check and replace. 2. Tighten.
Water leaking at pump	<ol style="list-style-type: none"> 1. Loose connections. 2. Piston packings worn. 3. Worn or broken o-rings. 4. Pump head or tubes damaged from freezing. 	<ol style="list-style-type: none"> 1. Tighten. 2. Have replaced by AWSC. 3. Have replaced by AWSC. 4. Have replaced by AWSC.
Oil leaking at pump	<ol style="list-style-type: none"> 1. Oil seals worn. 	<ol style="list-style-type: none"> 2. Have replaced by AWSC

REPAIR PARTS



Key#	Part #	Description
1	#	Engine
2	*	Pump Kit
3	D22166	High Pressure Hose
4	H140	Chemical Hose
5	17780	Spray Gun
6	D22837	Multi-Reg Wand
7	NCT001	Cleaning Tool
8	16797	Allen Wrench
9	D25073	Accessories Panel
10	D22901	Screws
11	D22275	Tire
12	W137	Pal Nut
13	D22316	Handle Assembly (includes Key#10)

See engine manual for service information

* Contact an Authorized Service Center

NOTES

LIMITED WARRANTY

DELTA MACHINERY warrants to the original purchaser that all products covered under this warranty are free from defects in material and workmanship. Products covered under this warranty include air compressors, air tools, service parts, pressure washers, and generators, which have the following warranty periods:

3 YEARS - Limited warranty on 2-stage oil-free air compressor pumps that operate at 1725 RPM.

2 YEARS - Limited warranty on oil-lubricated air compressor pumps.

1 YEAR - Limited warranty on all other air compressor components.

2 YEARS - Limited warranty on electric generator alternators.

1 YEAR - Limited warranty on other generator components.

2 YEARS - Limited warranty on pneumatic air tools as described in **Delta** general catalog.

1 YEAR - Limited warranty on pressure washers used in consumer applications (i.e. personal residential household usage only).

90 DAY - Pressure washers used for commercial applications (income producing) and service parts.

Delta will repair or replace, at **Delta's** option, products or components which have failed within the warranty period. Service will be scheduled according to the normal work flow and business hours at the service center location, and the availability of replacement parts. All decisions of **Delta** Machinery with regard to this limited warranty shall be final.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RESPONSIBILITY OF ORIGINAL PURCHASER (initial User):

- To process a warranty claim on this product, DO NOT return it to the retailer. The product must be evaluated by an **Delta** Authorized Warranty Service Center. For the location of the nearest **Delta** Authorized Warranty Service Center call 1-866-422-4286, 24 hours a day, 7 days a week.
- Retain original cash register sales receipt as proof of purchase for warranty work.
- Use reasonable care in the operation and maintenance of the product as described in the Owners Manual(s).
- Deliver or ship the product to the nearest **Delta** Authorized Warranty Service Center. Freight costs, if any, must be paid by the purchaser.
- Air compressors with 60 and 80 gallon tanks will be inspected at the site of installation. Contact the nearest **Delta** Authorized Warranty Service Center that provides on-site service calls, for service call arrangements.
- If the purchaser does not receive satisfactory results from the **Delta** Authorized Warranty Service Center, the purchaser should contact **Delta**.

THIS WARRANTY DOES NOT COVER:

- Merchandise sold as reconditioned, used as rental equipment, and floor or display models.
- Merchandise that has become damaged or inoperative because of ordinary wear, misuse*, cold, heat, rain, excessive humidity, freeze damage, use of improper chemicals, negligence, accident, failure to operate the product in accordance with the instructions provided in the Owners Manual(s) supplied with the product, improper maintenance, the use of accessories or attachments not recommended by **Delta**, or unauthorized repair or alterations.
- * An air compressor that pumps air more than 50% during a one hour period is considered misuse because the air compressor is undersized for the required air demand.
- Repair and transportation costs of merchandise determined not to be defective.
- Costs associated with assembly, required oil, adjustments or other installation and start-up costs.
- Expendable parts or accessories supplied with the product which are expected to become inoperative or unuseable after a reasonable period of use, including but not limited to sanding disks or pads, saw and shear blades, grinding stones, springs, chisels, nozzles, o-rings, air jets, washers and similar accessories.
- Merchandise sold by **Delta** which has been manufactured by and identified as the product of another company, such as gasoline engines. The product manufacturer's warranty, if any, will apply.
- **ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT IS NOT COVERED BY THIS WARRANTY.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- **IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.



Jackson, TN USA
1-866-422-4286