# 5.5 Horsepower Pressure Washer with 5760 Cleaning Units

(Model DT2400CS)



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For Parts, Service, Warranty or other Assistance, please call 1-866-422-4286

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# 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 the manual and pay attention to these symbols.

ADANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.	A CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
AWARNING Indicates a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury.</u>	CAUTION  Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

# **CONSUMER SAFETY INFORMATION**

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 arresters are also required on some U.S. Forest Service land and may also be legally required under other statutes and ordinances.

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

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# **IMPORTANT SAFETY INSTRUCTIONS**

**▲WARNING** 

Read Operation Manual. Do not operate equipment until you have read Operation Manual for Safety, Assembly, Operation, and Maintenance Instructions.

# READ AND SAVE THESE INSTRUCTIONS HAZARD





A DANGER RISK OF EXPLOSION OR FIRE		
WHAT CAN HAPPEN	HOW TO PREVENT IT	
Spilled gasoline and it's vapors can be- come ignited from cigarette sparks, electrical arcing, exhaust gases, and hot engine components such as the muffler.	<ul> <li>Shut off engine and allow it to cool before adding fuel to the tank.</li> <li>Use care in filling tank to avoid spilling fuel. Move pressure washer away from fueling area before starting engine.</li> </ul>	
<ul> <li>Heat will expand fuel in the tank which could result in spillage and possible fire explosion.</li> </ul>	<ul> <li>Keep maximum fuel level ½" below top of tank to allow for expansion.</li> </ul>	
Operating the pressure washer in an ex- plosive environment could result in a fire.	<ul> <li>Operate and fuel equipment in well ventilated areas free from obstructions. Equip areas with fire extinguisher suitable for gasoline fires.</li> </ul>	
<ul> <li>Materials placed against or near the pres- sure washer can interfere with its proper ventilation features causing overheating and possible ignition of the materials.</li> </ul>	Never operate pressure washer in an area containing dry brush or weeds.	
<ul> <li>Muffler exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, or vinyl), and damage live plants.</li> </ul>	<ul> <li>Always keep pressure washer a minimum of four feet away from surfaces (such as houses, automobiles, or live plants) that could be dam- aged from muffler exhaust heat.</li> </ul>	
Improperly stored fuel could lead to accidental ignition. Fuel improperly secured could get into the hands of children or other unqualified persons.	Store fuel in an OSHA approved container, in a secure location away from work area.	
<ul> <li>Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flam- mable solvent with this product could re- sult in serious injury or death.</li> </ul>	<ul> <li>Do not spray flammable liquids.</li> <li>Never fill cleaning solution tanks with gasoline or other flammable solvent.</li> </ul>	

	ZARD
A DANGER RISK TO BREATHING	
WHAT CAN HAPPEN	HOW TO PREVENT IT
Breathing exhaust fumes will cause serious injury or death!	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.
Some cleaning fluids contain substances which could cause injury to skin, eyes, or lungs.	Use only cleaning fluids specifically recommended for high pressure washers. Follow manufacturers recommendations. Do not use chlorine bleach or any other corrosive

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compound.

#### **HAZARD**

# **A DANGER**

# **RISK OF INJURY OR PROPERTY DAMAGE** WHEN TRANSPORTING OR STORING



#### WHAT CAN HAPPEN

· 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.

#### HOW TO PREVENT IT

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 vour destination.

#### **HAZARD**

# **A DANGER**

## **RISK OF FLUID** INJECTION



#### WHAT CAN HAPPEN

- 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!
- Injuries can result if system pressure is not reduced before attempting maintenance or disassembly.

#### HOW TO PREVENT IT

- 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.
- To relieve system pressure, shut off engine, turn off water supply, and pull gun trigger until water stops flowing.
- Use only hoses and accessories rated for pressure higher than your pressure washer's p.s.i.

#### **HAZARD**

# AWARNING RISK OF CHEMICAL BURN



#### WHAT CAN HAPPEN

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.

#### HOW TO PREVENT IT

- 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.
- Read and understand all warnings and instructions supplied by cleaning solution manufacturer.
- Wear protective clothing to protect eyes and skin from contact with sprayed materials.

## HAZARD



# ADANGER RISK OF UNSAFE OPERATION



	NH NH
WHAT CAN HAPPEN	HOW TO PREVENT IT
Unsafe operation of your pressure washer could lead to serious injury or death to you or others.	<ul> <li>Do not use chlorine bleach or any other corrosive compound.</li> <li>Become familiar with the operation and controls of the pressure washer.</li> <li>Keep operating area clear of all persons, pets, and obstacles.</li> <li>Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.</li> <li>Never defeat the safety features of this product.</li> <li>Do not operate machine with missing, broken, or unauthorized parts.</li> <li>Never leave wand unattended while unit is running.</li> </ul>
If proper starting procedure is not followed, engine can kickback causing serious hand and arm injury.	<ul> <li>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.</li> </ul>
The spray gun/wand is a powerful clean- ing tool that could look like a toy to a child.	Keep children away from the pressure washer at all times.
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> <li>Do not overreach or stand on an unstable support. Grip gun/wand firmly with both hands. Expect the gun to kick when trig- gered.</li> </ul>

AWARNING RISK OF ELECTRICAL S	SHOCK
WHAT CAN HAPPEN	HOW TO PREVENT IT
Spray directed at electrical outlets or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.	Unplug any electrically operated product before attempting to clean it. Direct spray away from electric outlets and switches.

electrical shock.	away from electric outlets and switches.	
HAZARD		
AWARNING RISK OF HOT SURFACES		
WHAT CAN HAPPEN	HOW TO PREVENT IT	
Contact with hot surfaces, such as engines exhaust components, could result in serious burn.	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.	

# AWARNING RISK OF INJURY FROM SPRAY



HISK OF INJURY FROM SPRAY	
WHAT CAN HAPPEN	HOW TO PREVENT IT
High velocity fluid spray can cause objects to break, propelling particles at high speed.     Light or unsecured objects can become hazardous projectiles.	Always wear ANSI approved Z87 safety glasses. Wear protective clothing to protect against accidental spraying. Never point wand at, or spray people or animals. Always secure trigger lock when wand is not in service to prevent accidental operation. Never permanently secure trigger in pull back (open) position.

The powerful spray from your pressure washer is capable of causing damage to surfaces such as wood, glass, automobile paint, auto stripping 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.

# CONSUMER GENERAL AND SERVICE INFORMATION

# DO NOT RETURN THIS PRODUCT TO THE RETAILER! FOR SERVICE OPTIONS CALL: 1-866-422-4286

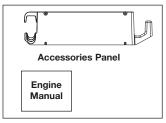
- Congratulations! You have purchased a high quality product from America's leading manufacturer of pressure washers. This pressure washer, when properly used and maintained, will provide trouble-free service. Please read and follow these instructions for proper use and maintenance.
- Please take the time now to register your pressure washer online at www.excellpressurewasher.com.
- 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.
- 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 at www.excellpressurewasher.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.
- · Read and understand all safety warnings.
- Do not operate this unit until you have read and understand this Operation 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.

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# **CARTON CONTENTS**



Engine Frame, Wheel Assembly, and Dual Tank Cleaning System



**Bagged Accessories Panel** 



Handle







Nozzle Cleaning Kit





High Pressure Hose

**Bagged Parts** 

**Engine Oil** 

Knobs







# **ASSEMBLY INSTRUCTIONS**

 Remove cleaning solution tanks from frame assembly. Slide tanks up and away from frame assembly.



Place handle assembly onto frame and connect handle to frame. NOTE: Knobs are assembled to the outside of frame.



3. Connect wand to gun. Tighten securely.



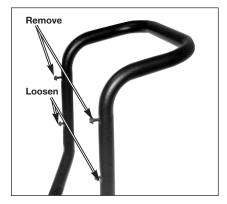
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4. Attach high pressure hose to gun. Tighten securely.



# 5. To Assemble Accessories Panel

- a. Remove top screws on handle assembly.
- b. Loosen bottom screws on handle assembly.



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



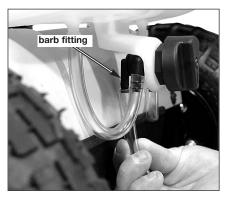
d. Place screws (removed earlier) into the top holes and secure accessories panel assembly to handles. Do not overtighten.

Reinstall cleaning solution tanks. Tilt cleaning solution tanks toward engine, slide onto handles, and snap into place.





Attach cleaning solution hose to barb fitting on control valve located at the rear of unit.



**8.** Add engine oil (supplied) to engine. Refer to Engine Owners Manual supplied by engine manufacturer for correct procedure.

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

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# **OPERATING INSTRUCTIONS**

READ THIS OPERATION 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.



# BASIC ELEMENTS OF A PRESSURE WASHER

**High Pressure Pump (located inside the shroud)**: 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-Adjustable Spray Wand:** Has a spray nozzle which adjusts from a pencil stream (0°) to a wide angle fan spray (40°). The spray can be adjusted by twisting the nozzle clockwise and/or counterclockwise. Also, the high and low pressure settings can be controlled by moving the nozzle in and out. See Operation section. See How To Use Spray Wand paragraph in this section.

Chemical Injector Rinsing Hose (not shown): Rinses the chemical injector after use of cleaning solution.

**Dual Tank Cleaning System:** Allows easily switching from one cleaning solution to another depending on the cleaning task by simply turning the control valve knob.

# BASIC ELEMENTS OF ENGINE

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

Choke Control: Opens and closes carburetor choke valve

Throttle Control Lever: Controls engine speed.

Fuel Valve Lever: Opens/closes connection between fuel tank and carburetor.

Starter Grip: Pulling starter grip operates recoil starter to crank engine.

# PRESSURE WASHER TERMINOLOGY

**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.

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 could 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 can cause damage to pump.

**Thermal Relief Valve:** In an effort to prevent extreme 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. The thermal relief valve is part of the pump and is <u>not visible</u> to the user.

**Chemical Injection System:** Mixes cleaning solution with the water to improve cleaning effectiveness.

**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.

# PRESSURE WASHER OPERATING FEATURES

# PRESSURE ADJUSTMENTS

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.
- Rotate the nozzle at the end of the multi-adjustable spray wand to widen the fan spray. The wider fan spray will minimize the pressure on the surface to be cleaned.

**▲** CAUTION

DO NOT attempt to increase pump pressure. A higher pressure setting than the factory set pressure may damage pump.

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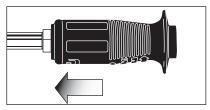
# **HOW TO USE SPRAY WAND:**

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

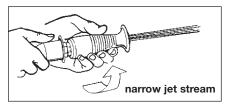
When using the high pressure setting, DO NOT allow the jet-like spray to come in contact with unprotected skin, eyes, or with any pets or animals. Serious injury can occur.

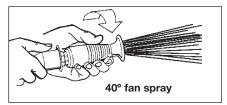
AWARNING Risk of injection or injury to person. DO NOT direct discharge stream toward persons.

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

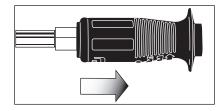


The nozzle at the end of the multi-adjustable spray wand can be rotated to change the high pressure spray pattern from a narrow jet to a 40° fan shape, as shown. Markings have been placed on the nozzle to help you select the spray pattern.





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



# HOW TO USE THE DUAL TANK CLEANING SYSTEM

**NOTE:** Use only soaps and cleaning solutions designed for pressure washer use. **Do not use bleach.** 

To apply cleaning solutions:

- Make sure cleaning solution tanks are assembled and all hoses are connected.
- 2. Turn control valve knob arrow to the down (off) position as shown.



3. Fill cleaning solution tanks with desired cleaning solution. Each tank holds approximately 1.25 gallon. NOTE: The cleaning solution/water ratio is 7:1, for every 7 gallons of water pumped, 1 gallon of cleaning solution will be used.

ADANGER

Never fill cleaning solution tanks with gasoline or other flammable solvent.

4. Turn control valve knob toward tank with desired cleaning solution.



- Set multi-adjustable nozzle to low pressure setting. See How To Use Spray Wand paragraph in this section.
- After use of cleaning solution the chemical injector MUST be rinsed, follow the instructions in the Shutting Down paragraph after each use.

**NOTE:** Cleaning solutions will not siphon when spray wand is in the high pressure setting.

## **DUAL TANK CLEANING SOLUTION TIPS**

- Each tank may be filled with different cleaning solutions depending on the task to be performed. Example: deck and driveway. Fill one tank with deck cleaning solution and the other with driveway cleaning solution. Clean the deck with the deck cleaning solution and then simply turn the control knob toward the driveway cleaning solution and clean the driveway.
- 2. If only one cleaning solution is being used both tanks may be filled with the same solution to double the capacity before refilling tanks.
- 3. If only one cleaning solution is being used the second tank may be filled with clean water to conveniently rinse the chemical injector after use.

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# READ AND UNDERSTAND ALL WARNINGS BEFORE STARTING UNIT

**ADANGER**When using the high pressure setting, DO NOT allow the high pressure spray to come in contact with unprotected skin, eyes, or with any pets or animals. Serious injury can occur.

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!** 

**AWARNING**NEVER fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.

**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** run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

**<u>DO NOT</u>** let hoses come in contact with very hot engine muffler during or immediately after use of your pressure washer. Damage to hoses from contact with hot engine surfaces will NOT be covered by warranty.

**ACAUTION**NEVER pull water supply hose to move pressure washer. This could damage hose and/or pump inlet.

**DO NOT** use hot water, use cold water only.

**NEVER** turn water supply off while pressure washer engine is running or damage to pump will result.

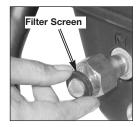
**DO NOT** stop spraying water for more than two minutes at a time. Pump operates in bypass mode when spray gun trigger is not pressed. If pump is left in bypass mode for more than two minutes internal components of the pump can be damaged.

If you do not understand these precautions, please call 1-866-422-4286 to speak to a service representative for further instructions.

## **STARTING**

Prior to starting, refer to your engine manual for proper starting procedures for your engine type.

- 1. In a well ventilated outdoor area add fresh high quality unleaded gasoline with a pump octane rating of 86 or higher. Do not overfill. Wipe up spilled fuel before starting the engine. Refer to engine manual for correct procedure.
- Check engine oil level. See Engine Owners Manual for correct procedure. NOTE: There will be a slight amount of oil in the engine from factory testing.
- Verify the filter screen is in water inlet of pump.
   NOTE: Cone side faces out.



- Connect water source to pump inlet.
   NOTE: Water source must provide a minimum of 5 gallons per minute at 20 p.s.i.
- 5. Connect high pressure hose to pump outlet.
- If applying a cleaning solution, see How To Use the Dual Cleaning Solution System in Operation section of this manual.
- 7. Turn water source on.
- Start engine. See Engine Owners Manual for correct procedure. NOTE: If the engine does not start after two pulls, pull the trigger to relieve the pressure.
- Depress trigger on gun to start water flow. NOTE: Stand on a stable surface and grip gun/wand firmly with both hands. Expect the gun to kickback when triggered.

Water

Source

High Pressure

Hose Hook-up

- 10. Release trigger to stop water flow.
- **11. Adjust nozzle spray for the task** being performed. See How To Use Wand instructions in this section.

#### SHUTTING DOWN

 After use of cleaning solution the chemical injector MUST be rinsed in order to prevent pump damage caused by solution build up. The warranty will not cover pumps that are damaged because the chemical injector was not properly rinsed.

# To rinse chemical injector using chemical injector hose

a. Remove cleaning solution hose from chemical injector barb fitting.



b. Push chemical injector rinsing hose onto the chemical injector barbed fitting.



c. Place other end of chemical injector rinsing hose into container of clean water and depress trigger to draw at least one gallon of clean water through chemical injection system to rinse system thoroughly.

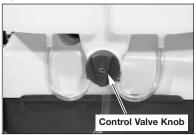
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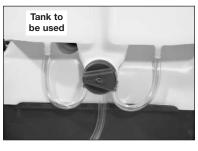
d. Before reconnecting cleaning solution hose to chemical injector barb fitting make sure that any remaining cleaning solution has been completely drained from the cleaning solution hose.

# To rinse chemical using cleaning solution system tank

- a. Turn control valve knob arrow to the down (off) position.
- b. Fill one of the cleaning solution system tanks with clean water.
- c. Turn control valve knob toward tank with clean water.
- Depress trigger to draw clean water through chemical injection system to rinse system thoroughly.
- Turn engine off. See Engine Owner's Manual. 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. NOTE: Cleaning solution must be removed from cleaning solution tanks if storing unit

longer than 30 days, see Storage section for correct procedure.





# **MAINTENANCE**

When performing maintenance, you may be exposed to hot surfaces, water pressure, or moving parts that can cause serious injury or death!

Before performing any maintenance or repair, disconnect spark plug wire, let engine cool and release all water pressure. The engine contains flammable fuel. <u>DO NOT</u> 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.

#### **ENGINE**

Consult the Engine Owners Manual for the manufacturer's recommendations for any and all maintenance.

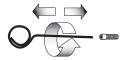
# **NOZZLE CLEANING**

If the nozzle becomes clogged with foreign matter, 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.
- Disconnect spark plug wire to insure the unit will not start while performing maintenance.
- 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.



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.



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



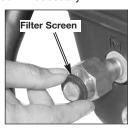
- 8. Reconnect spark plug wire
- 9. Reassemble the nozzle to the wand. Tighten securely to prevent leaks.
- 10. Reconnect wand to gun and turn on water supply.
- 11. Start pressure washer and place wand into high pressure setting to test.

## HOW TO CLEAN THE WATER INLET FILTER

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

- 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.
- Re-insert filter into water inlet of pump. NOTE: Cone side faces out.

**NOTE:** Do not operate pressure washer without filter properly installed.



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# **STORAGE**

# **FNGINE**

Consult the Engine Owners Manual for the manufacturer's recommendations for storage.

# **PUMP**

- Drain all water from high pressure hose, coil it, and store it in cradle of the pressure washer handle.
- 2. Drain all water from spray gun and spray wand by holding spray gun in a vertical position with nozzle end pointing down and squeezing trigger. Store in gun/hose holder.
- 3. Store chemical injector rinsing hose, high pressure hose, spray gun, and spray wand so they are protected from damage, such as being run over.

It is recommended that you follow these steps to protect the internal seals of the pressure washer when STORING THE UNIT FOR MORE THAN 30 DAYS AND/OR WHEN FREEZING TEMPERATURES ARE EXPECTED.

\*RV antifreeze needs to be run through the pump as outlined in the steps below.

 Obtain a funnel, six ounces of \*RV antifreeze, and approximately 36 inches of garden hose with a male hose connector attached to one end.

ACAUTION

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

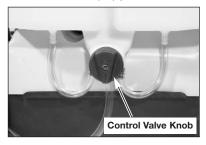
- 5. Disconnect spark plug wire.
- **6.** Connect 36 inch length of hose to water inlet of pump.
- 7. Add \*RV antifreeze to hose as shown.
- 8. Pull engine starter rope slowly several times until antifreeze comes out of high pressure hose connection of pump.
- **9.** Remove short hose from water inlet of pump.
- 10. Reconnect spark plug wire.

\*Windshield washer fluid may also be used



# **DUAL TANK CLEANING SYSTEM**

1. Turn control valve knob to the down (off) position.



Remove cleaning solution hose at chemical injector and pull through rear shroud.



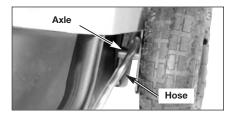


3. Place end of cleaning solution hose into a suitable container to drain cleaning solution.



- 4. Turn control valve toward tank to be drained.
- 5. Repeat steps 3-4 to drain second tank.
- 6. Turn control valve knob to the down (off) position.
- 7. Fill tanks with clean water.
- 8. Turn valve toward tank and drain water from tank. Repeat on second tank. **NOTE:** This will rinse cleaning solution tanks.
- Feed cleaning solution hose between shroud and wheel bracket making sure it is routed over the axle as shown. Reconnect cleaning solution hose to chemical injector for future use.





D27918 20- ENG

TROUBLE SHOOTING GUIDE		
PROBLEM	CAUSE	CORRECTION
Engine will not start (see Engine Manual for further engine	No fuel.	Add Fuel.
	Pressure builds up after two pulls on the recoil starter or after initial use.	Squeeze gun trigger to relieve pressure.
troubleshooting)	Choke lever in the "No Choke" position.	Move choke to the "Choke" position.
	Spark plug wire not attached.	Attach spark plug wire.
	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.	Move choke to the "No Choke" position.
No or low pressure (initial use)	Wand not in high pressure.	See How to Use Spray Wand paragraph in the Operation Section.
	Low water supply.	Water supply must be at least 5 GPM @ 20 PSI.
	Leak at high pressure hose fitting.	Tighten fitting. Apply sealant tape if necessary.
	Nozzle obstructed.	See Spray Wand paragraph in the Maintenance section for the correct procedure.
	Water filter screen clogged.	Remove and clean filter.
	Defective E-Z start valve.	Check with Authorized Warranty Service Center (AWSC.)
	Air in hose.	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. Re-connect water source to pump inlet and turn on water source. Squeeze trigger to remove remaining air
	Choke lever in the "Choke" position.	Move choke to the "No Choke" position.
	Throttle control lever is not in the "Fast" position.	Move throttle control lever to the "Fast" position.
	High pressure hose is too long.	Use high pressure hose under 100 feet.

PROBLEM	CAUSE	CORRECTION
Will not draw cleaning solution	Wand not in low pressure.	See How to Use Wand paragraph in the Operation Section.
	Filter clogged on chemical injector rinsing hose.	Clean filter.
	Screen on end of chemical injector rinsing hose not in water	Make sure end of chemical injector rinsing hose is fully submerged into clean water.
	Cleaning solution too thick.	Dilute cleaning solution. Cleaning solution should be the same consistency as water.
	Pressure hose is too long	Lengthen water supply hose instead of high pressure hose.
	Cleaning solution build up in chemical injector.	Have parts cleaned or replaced by AWSC.
	Hoses are not connected.	Make sure all hoses are connected at valve.
	Control valve is in the down (off) position or pointed toward the tank not being uses.	Turn control valve toward tank being used.
No or low	Worn seal or packing	Have replaced by AWSC.
pressure (after period of	Worn or obstructed valves.	Have replaced by AWSC.
normal use)	Worn unloader piston.	Have replaced by AWSC.
	Worn E-Z start valve.	Have replaced by AWSC.
Water leaking at gun/wand	Worn or broken o-ring.	Check and replace.
connection	Loose hose connection.	Tighten.
Water leaking	Loose connections.	Tighten.
at pump	Piston packings worn.	Have replaced by AWSC.
	Worn or broken o-rings.	Have replaced by AWSC.
	Pump head or tubes damaged from freezing.	Have replaced by AWSC.
Pump Pulsates	Nozzle obstructed.	See Spray Wand paragraph in the Maintenance section for the correct procedure.

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# NOTES

# 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 a **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.



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