

DR[®] POWER WASHER

ASSEMBLY & OPERATING INSTRUCTIONS



\$5.00

THANK YOU!

And congratulations on your purchase of a new DR® Power Washer.

We have done our utmost to ensure that your DR® will be one of the most trouble-free and satisfying pieces of equipment you have ever owned.

Please let us know of any questions or problems you may have. We want to answer or correct them as quickly as possible. (When you do call or write, please have your serial number and/or order number handy - it will speed things up!) We also hope to hear from you on how much you like your new helper.

And please tell your friends about your new DR® Power Washer. Having DR® Owners spread the word about our products and our way of doing business is the best advertising we can have, and it's the best way to help us provide even better service in the years to come.

Thanks once again!

Bill Lockwood

for all of us at...

COUNTRY HOME PRODUCTS®

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Safety Instructions

We want you to enjoy years of productive use from your DR® Power Washer. We don't want you to get injured, so please take the time to read the following guidelines for safely operating your new machine.

-  **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.**

Dress Appropriately

- Always wear eye protection when you use your DR® Power Washer or when you are in the vicinity where the equipment is in use. High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds.
- Always wear shoes with non-slip treads. Do Not operate the machine while barefoot or while wearing open sandals.
- Do Not wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts.

Preparation

- For outdoor use only.
- Read these Assembly and Operating Instructions and the engine manufacturer's owner's manual before you use your DR® Power Washer. Become familiar with the controls, engine and service recommendations, and any hazards involved to ensure the best performance from your unit.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces. Do Not overreach or stand on unstable support. Keep good footing and balance at all times.
- Keep operating area clear of all persons. Know how to stop the product and bleed pressure quickly.
- The spray gun is equipped with a SAFETY LATCH. Never exchange nozzles without locking the safety latch on the trigger.
- Be extremely careful if you use the power washer from a ladder, scaffolding or any other relatively unstable location. Pressure in a running washer builds as you climb. When you press the trigger, the recoil from the initial spray could cause you to fall. The high pressure spray could also cause you to fall if you are too close to the cleaning surface.

Operating the Machine Safely

- Always be certain the spray gun, trigger lock, nozzles and accessories are correctly attached and in proper working order.
- Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs to your power washer.
- Always use both hands when spraying high pressure water to maintain complete control of the spray gun. Failure to do so could result in an injury from a whipping spray gun. Do Not leave the spray gun unattended while the machine is running. Stay alert; watch what you are doing.

- To reduce the risk of injury, close supervision is necessary when product is used near children. Do Not allow CHILDREN to operate the power washer at any time.
- Do Not by-pass any safety devices on this machine. Never operate units with broken or missing parts, or without protective housing or covers.
- Do Not operate this product when fatigued or under the influence of alcohol or drugs.
- Never aim the spray gun at people, animals or plants. The high pressure stream of water that this equipment produces can pierce skin and its underlying tissues, leading to serious injury and possible amputation.
- Never move the machine by pulling on the high pressure hose. Use the handle provided on the unit.
- Water spray must never be directed towards any electric wiring or directly towards the power washer machine itself or fatal electric shock may occur.

Safety With Gasoline-Powered Machines

▲ WARNING! The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

- Gasoline is highly FLAMMABLE and its vapors are EXPLOSIVE. Do Not permit smoking, open flames, sparks or heat in the vicinity while handling gasoline. Avoid spilling gasoline on a hot engine. Allow unit to cool for 2 minutes before refueling. Comply with all laws regulating storage and handling of gasoline.
- Check the 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 the power washer.
- Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Do Not smoke when filling fuel tank.
- Never fill fuel tank completely full. Provide space for fuel expansion. Wipe away any fuel spillage from engine and equipment and let residue evaporate before starting.
- Engine exhaust gases contain DEADLY carbon monoxide gas. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. Operate this equipment only in the open air where adequate ventilation is available.
- Avoid prolonged or repeated skin contact with used motor oil. Used motor oil has been shown to cause skin cancer in certain laboratory animals. Thoroughly wash exposed areas with soap and water. KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

Warning To All California And Other Users

Under California and Washington state laws, and the laws of some other states, you are not permitted to operate an internal combustion engine using hydrocarbon fuels without an engine spark arrester. Failure of the owner/operator to maintain this equipment in compliance with state regulations is a misdemeanor under California law and may be in violation of other state and/or federal regulations. Contact your local fire marshal or forest service for specific information in your area. You can order a spark arrester through COUNTRY HOME PRODUCTS®.

Setting Up Your Power Washer

Step 1 Check Contents and Remove Power Washer From Carton

The following parts are shipped loose with your power washer. Use the illustration on Page 5 to identify components:

High Pressure Hose with Quick Connect fittings

Parts Box (includes items listed below)

Pull Handle (with 2500 PSI & 3000 PSI units)

Spray Gun

Single Nozzle Extension with Hi/Lo Adjustable Nozzle (with 2300 PSI & 2500 PSI units)

Dual Nozzle Extension with Quick Connect and four nozzles (with 3000 PSI unit)

Utility Brush

Brush Extension

Brush/Extension Adapter

Engine Oil

Six pouches of chemical concentrate (three pouches for 2300 PSI unit)

Owner's Manual

Engine Owner's Manual

Nozzle Cleaning Kit

"O"-Ring Maintenance Kit

Chemical Tank Labels

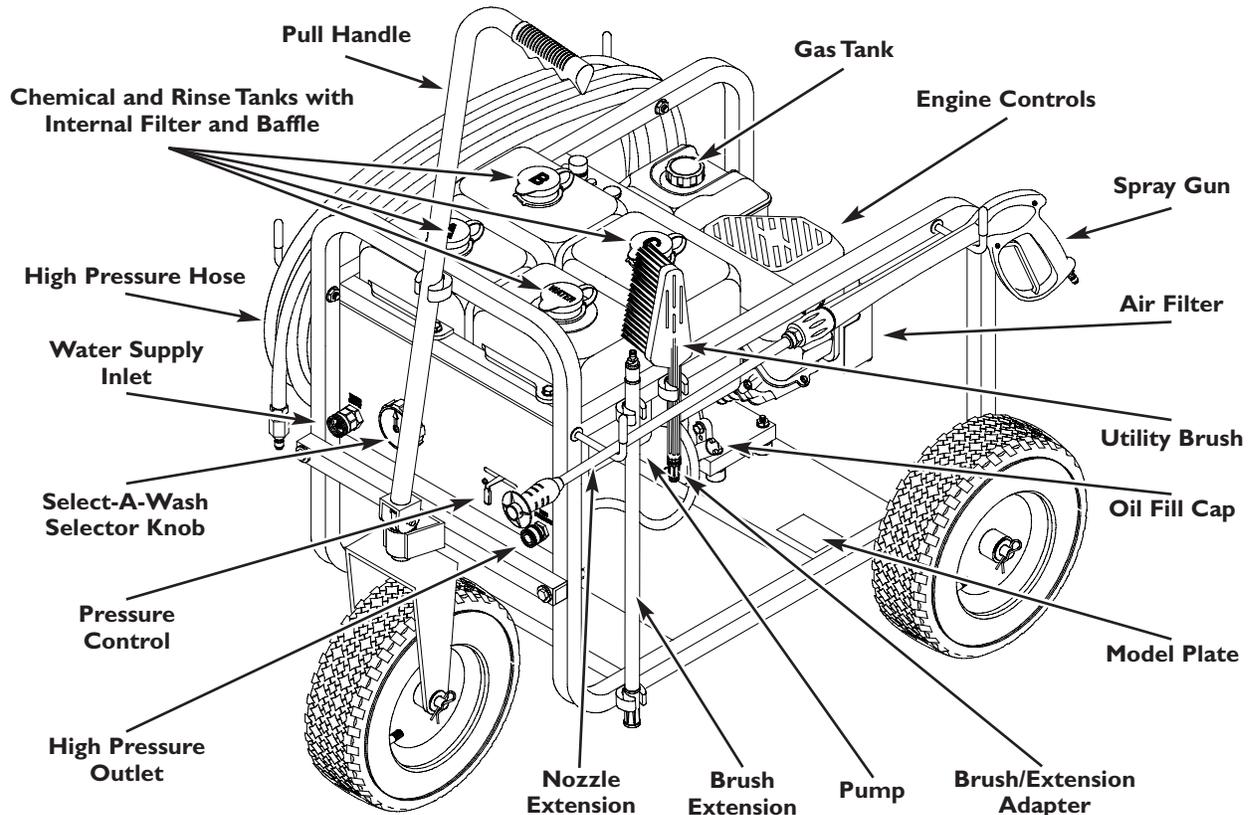
Become familiar with each piece before assembling the power washer. If any parts are missing or damaged, call DR® at 1(800)DR-OWNER (376-9637).

Remove Power Washer From Carton

- Remove loose parts and parts box packed with your power washer.
- Slice two corners at handle end of carton from top to bottom so the carton panel can be folded down flat.
- For 2300 PSI unit, pivot handle up and ensure locking blocks engage top of frame posts.
For 2500 PSI and 3000 PSI units, attach pull handle, secure in place with lanyard pin.
- Roll the power washer out the open end of the carton.
- Check carton for additional loose parts.

Power Washer Components

This illustration points out important features and accessories on the 2500 PSI unit. The other units have similar features and accessories:



Air Filter – Dry type filter element limits the amount of dirt and dust that gets in the engine.

Brush Extension – Used to extend reach of brush.

Brush/Extension Adapter – Used to attach utility brush or extension to spray gun.

Chemical and Rinse Tanks with Internal Filter and Baffle – Used to provide detergent or other chemicals to the low pressure water stream.

Engine Controls – Consists of fuel shutoff valve, engine rocker switch, choke lever.

Gas Tank – Fill gas tank with regular unleaded gasoline here.

High Pressure Hose – Connect one end to the spray gun, other to pump or control panel.

High Pressure Outlet – Connect high pressure hose here.

Model Plate – Lists unit model number and serial number. This information is needed if contacting DR®.

Nozzle Extension – Always attached to spray gun. Permits user to adjust spray pressure and spray pattern.

Oil Fill Cap – Fill engine with oil here. See engine owner's manual for oil recommendations.

Pressure Control – Adjusts output water pressure.

Pull Handle – Used to maneuver power washer to and from work area. Secured with lanyard pin.

Pump – Develops high water pressure.

Select-A-Wash Selector Knob – Selects any one of three chemicals or the clean water system rinse.

Spray Gun – Controls the application of water onto cleaning surface with trigger device. Includes safety latch.

Utility Brush – Used to help dislodge encrusted grime and dirt.

Water Supply Inlet – Connection for garden hose.

Step 2 Connect the Battery Wire (Electric Start Models Only)

To prevent the battery from discharging during shipment, all electric-start power washers are shipped with the positive battery wire disconnected.

Attach the RED wire to the POSITIVE battery terminal (Figure 1) by aligning the yellow connector with the terminal and pressing on firmly.

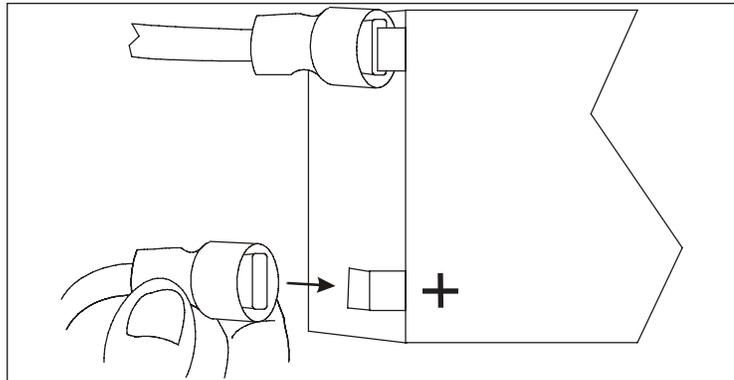


Figure 1 - Connect Positive Battery Wire, 2500 & 3000 PSI units

Step 3 Add Oil And Gas

CAUTION! THIS MACHINE IS SHIPPED WITHOUT OIL! TRACES OF OIL MAY BE IN THE RESERVOIR FROM FACTORY TESTING, BUT YOU MUST ADD OIL BEFORE STARTING THE ENGINE. FILL THE RESERVOIR SLOWLY, CHECKING THE DIPSTICK FREQUENTLY TO AVOID OVERFILLING.

Add Engine Oil

A container of the correct oil is supplied with the unit and may contain more oil than the engine capacity.

- Place power washer on a level surface.
- See engine owner's manual to review oil fill instructions.
- Check engine oil level frequently to avoid possible damage from running low on oil.

Add Gasoline

Use regular unleaded gasoline with the power washer. See engine owner's manual for specific fuel fill instructions. Fuel tank capacity for 2300 PSI & 2500 PSI units is 3 U.S. quarts, 3000 PSI unit is 4 U.S. quarts.

⚠ WARNING! Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Do Not smoke when filling fuel tank.

CAUTION! Do Not overfill the fuel tank. Always leave room for expansion.

- Clean area around fuel cap, remove cap.
- Slowly add fuel to the fuel tank. Always leave room for fuel expansion.

IMPORTANT: Never mix oil with gasoline. Never use gasoline containing methanol.

- Install fuel cap and wipe up any spilled gasoline before starting.

Step 4 Connect High Pressure Hose And Fill Chemical Tanks

- Uncoil high pressure hose and attach quick connect end of hose to the base of the spray gun (Figure 2). Pull down on the collar of the quick connect, slide onto the spray gun and let go of collar. Tug on hose to be sure of a tight connection.

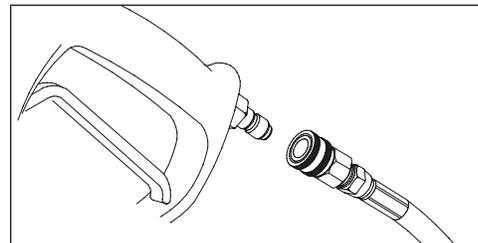


Figure 2 - Connect Hose to Spray Gun

- *For 2300 PSI unit:*
Attach the other end of the high pressure hose to the high pressure outlet on the pump (Figure 3). Pull down on the collar of the quick connect, slide onto the pump and let go of collar. Pull on hose to be sure of a tight connection.

For 2500 PSI & 3000 PSI units:

Attach the other end of the high pressure hose to the HIGH PRESSURE outlet (Figure 4) on the unit's control panel.

- Attach nozzle extension to spray gun.

NOTE: If it is necessary to extend the reach of the power washer, the manufacturer recommends that additional inlet water garden hose be used instead of an extension high pressure hose. Each additional connector in the high pressure line will restrict water flow and could disable the chemical application function.

- Place assembled spray gun on hooks attached to frame, as shown on Page 5.
- *For 3000 PSI unit:*
Insert the multi-colored nozzles in the spaces provided (Figure 4) on the control panel.

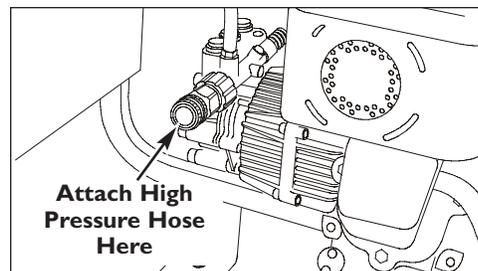


Figure 3 - 2300 PSI High Pressure Outlet

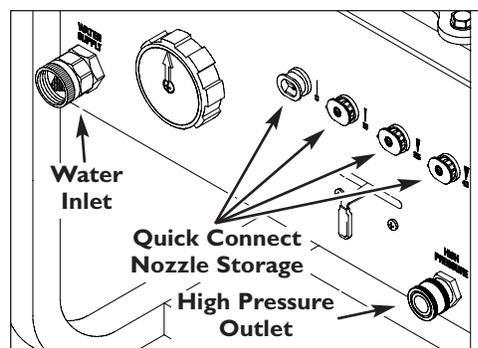


Figure 4 - 3000 PSI Control Panel

Fill Chemical Tanks

The unit's chemical tanks are labeled "A", "B", and "C" (Figure 5). These letters correspond to the lettering around the control panel's Select-A-Wash knob. The fourth tank is labeled "SYSTEM RINSE WATER" and should be filled with fresh, clean water.

As many as three (3) different chemical solutions can be carried on the power washer at the same time. To add chemical to a tank:

- Make sure the Select-A-Wash knob is in the "CHEMICAL OFF" position (note that Select-A-Wash "CHEMICAL OFF" position does not turn off the engine).
- Snip off one corner of the desired chemical pouch and pour the contents into an empty tank. Use two pouches per tank for the 2500 PSI and 3000 PSI unit's. Fill that tank with fresh clean water to attain the required chemical concentration. Repeat these instructions for each different chemical you wish to use.
- Supplied with the unit are white circular labels that can be placed around the appropriate tank neck. Use these labels to identify each tank's contents.

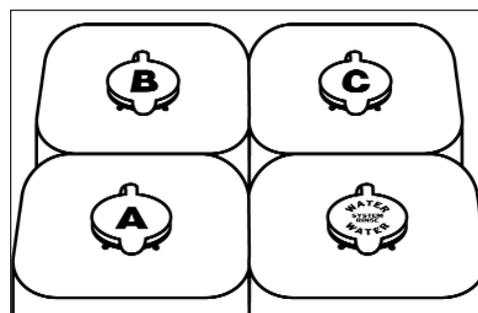


Figure 5 - Chemical and Rinse Tanks

IMPORTANT: While DR[®]-approved chemicals are safe when used as instructed on package labeling, all chemicals or detergents may be harmful if improperly used. Use caution when using chemicals.

Step 5 Connect to Water Supply

- Place the power washer in an area close enough to an outside household water source that can flow at a rate of at least 4 gallons per minute. Use only cold water (less than 100°F). Connect a garden hose to the water spigot.

IMPORTANT: Do Not siphon standing water for your water supply. Contaminated, brackish or dirty water can damage the pump. Never use garden hose inlet to siphon detergent or wax.

CAUTION! There **MUST** be at least ten feet of unrestricted garden hose between the power washer inlet and any flow shut off device, such as a 'Y' shut-off connector or other convenience-type water shut-off valve. Damage to power washer resulting from disregarding this warning will not be covered by the warranty.

- Check inlet screen on the water inlet at the pump for the 2300 PSI unit (Figure 6) or on the control panel fitting labeled WATER SUPPLY for 2500 PSI and 3000 PSI units (see Figure 4).

If the screen is dirty, clean before attaching a garden hose. If the screen is damaged, Do Not connect the garden hose. Replace with screen provided in the O-Ring Maintenance Kit or call 1(800)DR-OWNER (376-9637) to order a replacement inlet screen.

- Turn on the water at the source and let it run out of the garden hose for 1-2 minutes to flush the hose of any debris or dirt. Turn off the water.
- Attach the garden hose to the water inlet.
- Turn on the water.

IMPORTANT: Do Not run pump without the water supply connected and turned on. You must follow this caution or the pump will be damaged.

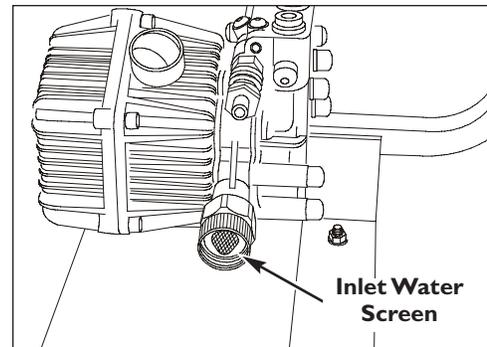


Figure 6 - 2300 PSI Water Connector

Starting And Operation

Read these instructions and learn how to use your DR® Power Washer before you attempt to start the unit. If you have any problems operating your power washer, please call DR® at 1(800)DR-OWNER (376-9637).

Starting the Engine

CAUTION! THIS MACHINE IS SHIPPED WITHOUT OIL! TRACES OF OIL MAY BE IN THE RESERVOIR FROM FACTORY TESTING, BUT YOU MUST ADD OIL BEFORE STARTING THE ENGINE. FILL THE RESERVOIR SLOWLY, CHECKING THE DIPSTICK FREQUENTLY TO AVOID OVERFILLING.

IMPORTANT: 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.

The best way to start your power washer engine for the first time is to follow these instructions step-by-step. This starting information also applies whenever you start the engine after you have let the power washer sit idle for at least a day.

- Temporarily remove the nozzle extension from the spray gun.
- Make sure the inlet water supply is connected and turned ON. Pull the spray gun trigger and hold until a steady stream of water appears.
- Engage the safety latch on the spray gun.
- Re-attach nozzle extension onto spray gun.
- Rotate fuel shut-off valve (Figure 7) fully counterclockwise (1/4 turn).
- Move choke lever (Figure 7) fully to the right (the "CHOKE" position).

NOTE: If restarting a warm engine after a short shutdown, move choke lever fully to the left (the "RUN" position).

- Push engine rocker switch (Figure 7) to the "ON" position.

NOTE: The Pressure Control lever (found on the unit's control panel) may be placed in any position during starting.

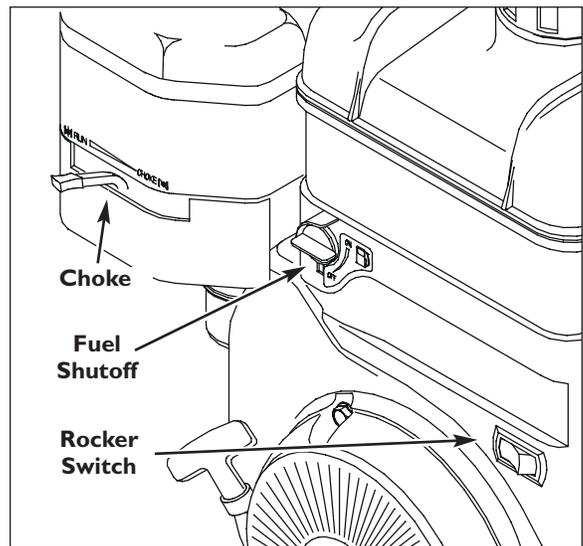


Figure 7 - Engine Controls

Electric Start (2500 & 3000 PSI units)

- For electric start, press push-button start switch (Figure 8) until engine cranks and starts. Limit electric start cycles to 5 seconds of cranking each minute to prolong life of starter and starting battery.

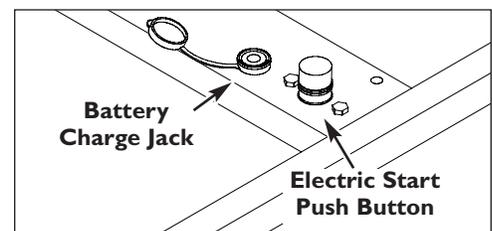


Figure 8 - Electric Start button and Battery Charge jack

Manual Start

- For manual start, pull slowly on recoil handle until you feel some resistance. Then pull rapidly to start engine. Return handle slowly. Do Not let it "snap back" against starter housing.
- Let the engine warm up. Move choke lever toward "RUN" position a short distance at a time over several seconds in warm weather or over several minutes in cold weather. The engine should run smoothly before each choke lever change.

If the engine fails to start, review instructions given in the engine owner's manual.

For maximum performance, operate the engine with the choke control in the "RUN" position.

Before starting the power washer in cold weather, check all parts of the equipment and be sure ice has not formed. Never use power washer in icy conditions.

Stopping the Engine

- Push engine rocker switch (Figure 7) to the "OFF" position.
- Rotate fuel shut-off valve (Figure 7) fully clockwise (1/4 turn).
- Squeeze spray gun trigger to relieve pressure in the hose. A small amount of water will squirt out when you release the pressure.

NOTE: Simply shutting off the engine will not release pressure in the system.

- Rotate the Select-A-Wash knob to the "CHEMICAL OFF" position to prevent chemical leakage. Note that the Select-A-Wash "CHEMICAL OFF" position does not turn off the engine or the inlet water supply.

⚠ CAUTION! The muffler and engine heat up during operation and remain hot immediately after shutting it down. Avoid contact with a hot muffler or engine or you could be severely burned.

Adjusting Spray Pressure

This DR® Power Washer permits you to regulate output water pressure by varying the engine speed using the **PRESSURE CONTROL** lever found on the control panel (Figure 9). Typical pressure settings are:

Pressure	Low	—————>	High
Application	Auto	Concrete	Paint removal
	Boat	Driveway	Degreasing
	Furniture	Deck	

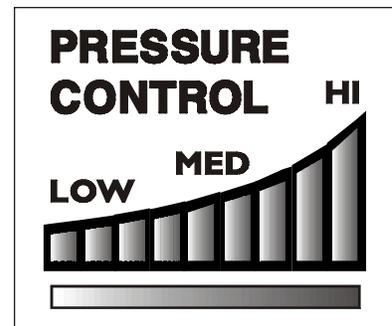


Figure 9 - Pressure Control

Pushing the lever fully to the left provides low spray pressure - fully to the right is maximum pressure. ALWAYS start washing with low pressure and increase it as needed to obtain desired cleaning action.

IMPORTANT: Damage may occur if you hold the spray nozzle too close to a surface. It is best to test for damage by standing 3-4 feet away from the surface to be cleaned, turning on the high pressure spray, then stepping closer to surface while moving the spray back and forth. You will find that the most effective cleaning occurs when spray nozzle is between 8 to 24 inches away from surface being cleaned.

Adjusting Spray Pattern

⚠ WARNING! Never put hands in front of the nozzle when adjusting the spray. Use extreme care when adjusting spray pattern while spraying.

The 2300 PSI and 2500 PSI units are equipped with a yellow adjustable nozzle at the end of the nozzle extension. Push the yellow portion forward (Figure 10) to apply chemical. Pull the nozzle backward until it "snaps" into place for cleaning. Twisting the nozzle (Figure 10) adjusts the spray pattern from a narrow to a "fan" pattern.

Point the nozzle down toward a firm surface and press the spray gun trigger to test the pattern (Figure 11).

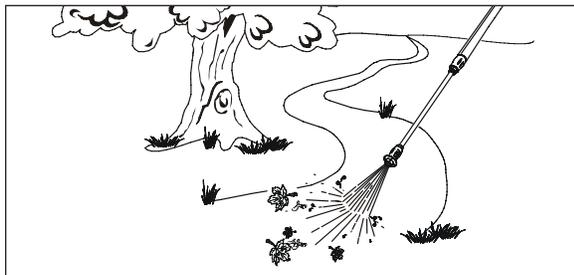


Figure 11 - Test Adjustable Spray Pattern

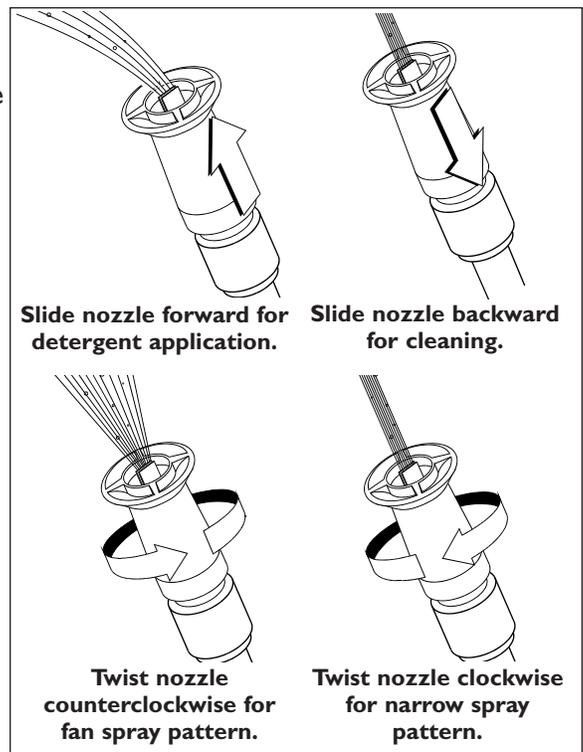


Figure 10 - 2300 and 2500 PSI Adjustable Nozzle

⚠ CAUTION! The spray gun is equipped with a SAFETY LATCH. You can engage this latch to keep the washer from accidentally spraying while you are changing the nozzle, the nozzle extension or when moving the unit.

The 3000 PSI unit is equipped with a dual nozzle extension (Figure 12) and four quick connect nozzles (Figure 13).

Chemical is dispensed only through the rubber-tipped permanent nozzle when the dual nozzle extension handle is twisted counterclockwise. This handle must be turned fully clockwise to obtain high pressure spray.

To attach one of four supplied quick connect nozzles, pull down on the collar of the quick connect fitting, slide in the desired nozzle and let go of collar. Pull on the nozzle to be sure of a tight connection.

For a relatively gentle washing action, select the white 40° or green 25° nozzle. To scour the surface, select the yellow 15° or red 0° nozzle.

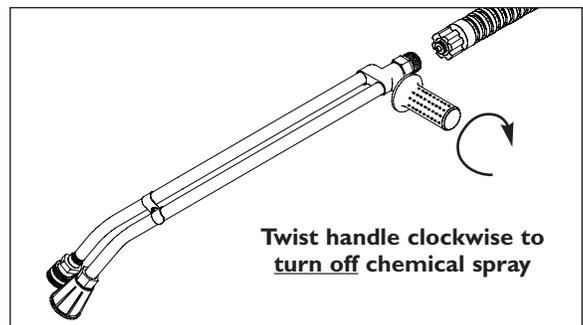


Figure 12 - 3000 PSI Dual Nozzle Extension

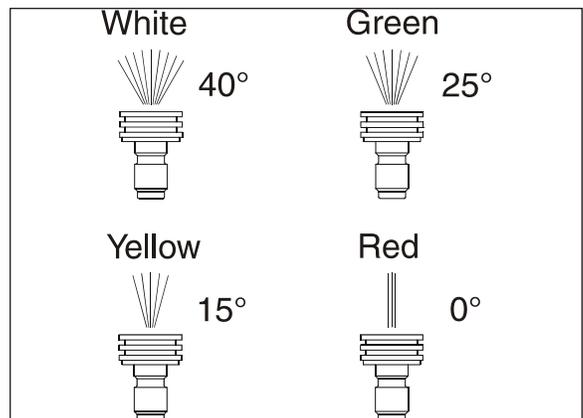


Figure 13 - 3000 PSI Quick Connect Nozzles

Accessories

The Brush/Extension Adapter (Figure 14) is used to connect either the utility brush or the brush extension to the spray gun. The Brush/Extension Adapter can be loosened to rotate and position the brush as desired.

The Utility Brush (Figure 14) is constructed of extremely durable non-corrosive materials. It is used to help dislodge encrusted grime and dirt when applying detergent or degreaser. It should not be used when rinsing.

To attach the brush, remove the nozzle extension from the spray gun. Thread the Brush/Extension Adapter into the spray gun and tighten finger tight. Push the utility brush fully into the adapter, then tighten it fully clockwise.

Push the brush extension fully into the brush/extension adapter and tighten it fully clockwise. Install the utility brush into the extension in the same manner.

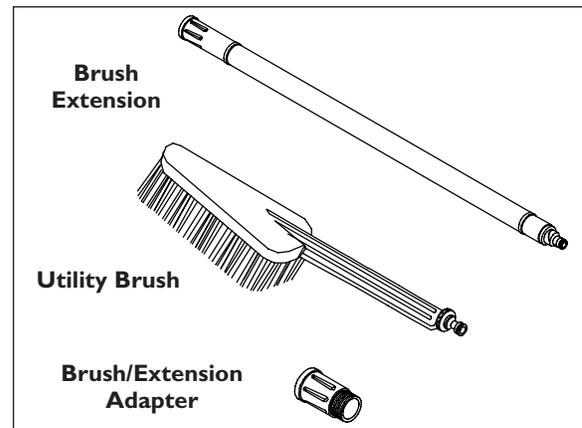


Figure 14 - Accessories

Operating Tips

- ◆ Never use the garden hose inlet to siphon detergent or wax.
- ◆ If you hold the spray nozzle too far away from the object being cleaned, washing will not be as effective.
- ◆ High pressure spray may damage fragile items including glass. Do Not point spray gun at glass when using high water pressure.
- ◆ Always store the power washer with the Select-A-Wash knob at the CHEMICAL OFF position.
- ◆ The power washer should NOT be covered during operation to permit free air circulation.

Optional Accessories

Optional power washer accessories will enhance the use of your DR® Power Washer. They may be obtained through the DR® website or by calling 1(800)DR-OWNER (376-9637).

Turbo Nozzle

The optional turbo nozzle produces an extremely high pressure rotating spray action to improve cleaning efficiency. It is capable of removing paint and damaging surfaces if held too close to the surface being cleaned. Always make sure to test the high pressure spray in a hidden area.

To attach the turbo nozzle, remove the nozzle extension from the spray gun. Place the turbo nozzle's threaded end into the spray gun and tighten finger tight, the same as the regular nozzle extension.

Hose Reel

If the optional hose reel is purchased, install it using the instructions packaged with it. Those instructions also describe how to use the reel. To store your high pressure hose, slide one end of the hose into the hole on the hose reel. Turn the hose reel with the provided handle and coil the hose onto the reel. Push the other end of the hose into the clip on the side of the unit.

IMPORTANT: You must take the hose off of the reel when operating the power washer. The reel is for hose storage purposes only.

Power Washing Technique

This section describes a general process for completing a power wash. You will develop your own technique as you use the system. Various uses for power washers are given later in this section.

1. Wet the surface to be cleaned with clear water to flush away loose debris and dirt.

▲ CAUTION! Before removing any spray gun extension, be sure to lock the spray gun safety latch. You could be injured if you try to remove an extension if the power washer is running and the trigger is squeezed open.

2. Rotate the Select-A-Wash knob to the letter corresponding to the desired chemical tank.
3. Push the adjustable nozzle forward (for 2300 and 2500 PSI units) or rotate the dual nozzle extension handle counterclockwise (for 3000 PSI unit) to apply chemical. Chemical cannot be applied in high pressure mode.
4. Apply the selected chemical, starting at lower portion of area to be washed and work upward. Use long, even overlapping strokes. Let the chemical 'soak in' for an appropriate time, but reapply as needed to prevent surface from drying.
5. Pull the adjustable nozzle backward (for 2300 and 2500 PSI units) until it locks in place or rotate the dual nozzle extension handle (for 3000 PSI unit) fully clockwise to obtain cleaning spray. Chemical will not flow with the cleaning spray. Select and attach the red or yellow nozzle (for 3000 PSI unit). Scour the surface with the high pressure water stream (Figure 15). Adjust PRESSURE CONTROL as described on Page 10 to obtain desired water pressure.



Figure 15 - Power Washing a Deck, a Vehicle, a Fence

CAUTION! Always test a small area of the surface to be cleaned. Make sure there is no damage caused by the high pressure spray before proceeding.

6. Expand the spray pattern for a more gentle rinsing action by twisting the adjustable nozzle (for 2300 and 2500 PSI units) or selecting the white or green nozzles (for 3000 PSI unit). Start at top of area to be rinsed, working down with same action as for cleaning. Use desired water pressure.
7. Flush the Select-A-Wash system after every use, as described on Page 19.

Power Washer Uses

There are many ways you can use your power washer, as listed here. We are interested to learn what other power washer uses you may develop!

Agricultural - wash down cultivators to reduce tilled-acreage cross-contamination, disinfect animal habitat, equipment maintenance, etc.

Awnings (vinyl, canvas & PVC) - cleaning and restoration

Barbecue and fire pit grills - cleaning

Bronze, metal, and statuary restoration and preservation

Decks, fences and pool surrounds made from wood, man-made materials, and masonry - cleaning or refinishing & surface preparation

Drains - cleared or cleaned

Fund raising car wash - faster throughput with greatly-reduced water use

Gardening tools - cleaning and preparing for storage

House siding (wood, aluminum, vinyl) - cleaning or repainting & surface preparation

Hydraulic mining - small trenches or boring under sidewalks, etc. clear dirt from tree or bush roots when replanting

Kennels, dog runs, pet walk areas - cleaning and sanitizing

Lawn, patio, and garden furniture & playground equipment - cleaning or refinishing & surface preparation

Log homes - cleaning or surface preparation for refinishing

Masonry Surfaces, such as floors, driveways, sidewalks, & swimming and wading pools made out of brick, cement, stone, tile, etc. - cleaning

Outdoor power equipment, such as mowers, trimmers, tillers, trenchers, etc. - cleaning and maintenance

Overcoating operations or paint preparation - power scrubbing and paint removal

Slag & scale removal

Taxidermy

Teak furniture - cleaning

Trailers, such as boat, RV, ATV, snowmobile, etc. - cleaning

Untreated old wood - prepare surface for finishing

Vehicles, such as boats, cars, trucks, motorcycles, bicycles, skid loaders, etc. and Engines - cleaning

Always remember to test the high pressure spray on an object's hidden area to ensure the process does not damage the surface.

Maintenance

Engine Maintenance

Refer to the engine owners manual for specific engine maintenance procedures, especially oil changes and air filter service. Your engine will not run properly and may be damaged if you run it with a dirty air cleaner.

⚠ CAUTION! Disconnect spark plug wire from spark plug and keep wire away from spark plug whenever performing engine maintenance.

Routine Maintenance

The power washer warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the power washer as instructed in this manual and in the engine owner's manual.

Once a year you should clean or replace the spark plug and replace the air filter. A clean spark plug and new air filter assure proper fuel-air mixture and help your engine run better and last longer. You should also check the spray gun and nozzle extension for wear.

This high pressure equipment is designed to be used with authorized parts only. If you use this equipment with parts that do not comply with minimum specifications, the user assumes all risks and liabilities.

Check And Clean Inlet Screen

Examine inlet water connector screen. Clean if it is clogged or replace if it is torn.

Check High Pressure Hose

The high pressure hose can develop leaks from wear, kinking, abuse, etc. Water spraying from a leak is capable of injecting material into skin. Inspect hose each time before using it. Check all hoses for cuts, leaks, abrasions or bulging of cover, or damage or movement of couplings. If any of these conditions exist, replace hose immediately.

⚠ WARNING! Never repair high pressure hose. Replace it with another hose that exceeds the maximum pressure rating of your unit.

Check Chemical Tanks

Tank covers should snap cleanly onto tank. Ensure chemical labels correctly identify tank contents. Ensure that the System Rinse Water tank is filled only with fresh clean water. Ensure that Select-A-Wash selector knob rotates freely between each position. Examine the tanks and replace if integral filter is clogged.

Check Spray Gun And Nozzle Extension

Examine quick connect fitting on spray gun and make sure it operates properly. Test spray gun trigger by pressing it and making sure it springs back into place when you release it. Engage safety latch. You should not be able to press trigger. Replace spray gun immediately if it fails any of these tests.

Check nozzle extension for no loose parts and for unimpeded operation, especially the adjustable nozzle and the quick connect mechanism.

Check In-Line Filter

Refer to Figure 16 and service the in-line filter if it becomes clogged, as follows:

1. Detach spray gun from high pressure hose. Detach nozzle extension from spray gun.
2. Remove o-ring and screen from threaded end of nozzle extension. Flush the screen, spray gun, and nozzle extension with clean water to clear debris.
3. If the screen is damaged, the o-ring kit contains a replacement in-line filter screen and an o-ring. If undamaged, reuse screen.

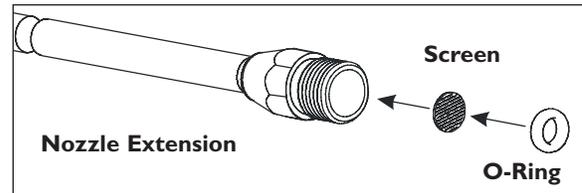


Figure 16 - Check In-Line Filter

4. Place the in-line filter screen into the threaded end of the nozzle extension. Direction does not matter. Push the screen in with the eraser end of a pencil until it rests flat at the bottom of the opening. Take care to not bend the screen.
5. Place the o-ring into the recess. Push the o-ring snugly against the in-line filter screen.
6. Assemble the nozzle extension to the spray gun, as described earlier in this manual.

Purge Pump Of Air And Contaminants

To remove air from the pump, follow these steps:

1. Connect and turn on the water supply.
2. Pull the spray gun trigger and hold until a steady stream of water appears.

To remove contaminants from the pump, follow these steps:

1. Connect and turn on the water supply.
2. Remove the nozzle extension from the spray gun.
3. Start the engine using instructions given previously.
4. Pull the spray gun trigger and hold.
5. When the water supply is steady and constant, engage the safety latch and refasten the nozzle extension.

Nozzle Maintenance

A pulsing sensation felt while squeezing the spray gun trigger may be caused by excessive pump pressure. The principal cause of excessive pump pressure is a nozzle clogged or restricted with foreign materials, such as dirt, etc. To correct the problem, immediately clean the nozzle using the tools included with your power washer and follow these instructions:

1. Shut off the engine and turn off the water supply. Press spray gun trigger to release internal water pressure.
2. Separate the nozzle extension from the spray gun.

3. *For the 2300 & 2500 PSI units supplied with the adjustable nozzle:*

- a. Twist the nozzle clockwise to the stream position.
- b. Using the supplied 2mm (5/64) Allen wrench, remove the nozzle from the end of the nozzle extension (Figure 17).
- c. Remove the in-line filter from the other end of the nozzle extension (see Figure 16, earlier).
- d. Use the wire included in the kit or a small paper clip (Figure 18) to free any foreign material clogging or restricting the nozzle.
- e. Using a garden hose, remove additional debris by back flushing water (Figure 19) through the nozzle extension. Back flush between 30 to 60 seconds. Turn the adjustable nozzle to stream spray and move the nozzle forward and back while flushing.
- f. Reinstall the nozzle and in-line filter into the nozzle extension. Do Not over tighten the nozzle with the Allen wrench.

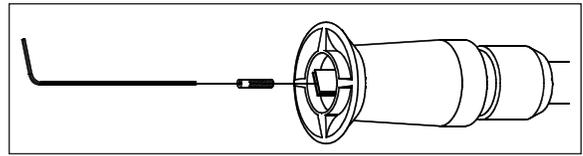


Figure 17 - Remove Nozzle

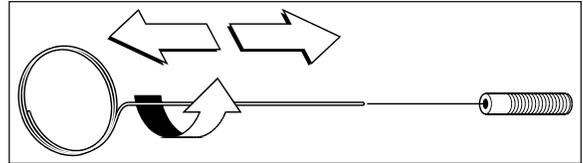


Figure 18 - Use Wire to Remove Debris

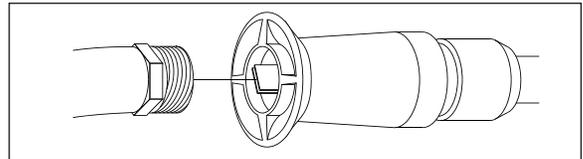


Figure 19 - Backflush 2300 & 2500 PSI Extension

4. *For the 3000 PSI units supplied with the dual nozzle extension:*

- a. Separate the quick connect nozzle from the nozzle extension.
- b. Remove the in-line filter from the other end of the nozzle extension (see Figure 16, earlier).
- c. Use the wire included in the kit or a small paper clip (Figure 20) to free any foreign material clogging or restricting all quick disconnect nozzles and the dual nozzle extension chemical nozzle.
- d. Using a garden hose, remove additional debris by back flushing water (Figure 21) through the nozzle extension. Back flush between 30 to 60 seconds. Turn chemical valve handle in and out to backflush both dual nozzle extension tubes.
- e. Reinstall the in-line filter into the nozzle extension.

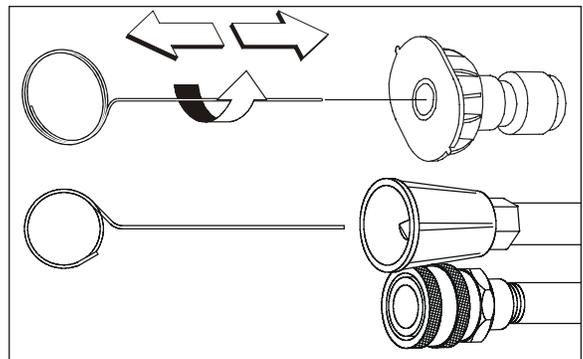


Figure 20 - Use Wire to Remove Debris

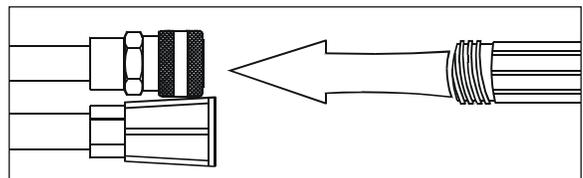


Figure 21 - Backflush 3000 PSI Extension

5. Reconnect the nozzle extension to the spray gun.
6. Reconnect the water supply, turn on the water, and start the engine.
7. *Test the 2300 & 2500 PSI power washers by operating with adjustable nozzle in the high and in the low positions.*
8. *Test the 3000 PSI unit with each of the Quick Connect nozzles.*

O-Ring Maintenance

Through the normal operation of your power washer, o-rings, which keep the connections of the hoses and spray gun tight and leak-free, may become worn or damaged.

Provided with your power washer is an O-Ring Maintenance Kit which includes replacement o-rings, rubber washer and water inlet filter. Refer to the instruction sheet provided in the kit to service your unit's o-rings. Note that not all of the parts in the kit will be used on your unit.

To remove a worn or damaged O-Ring, use a small flathead screwdriver to get underneath the o-ring and pry it off.

Battery Care (Electric Start Models Only)

The starting battery is a sealed lead acid battery.

- ⚠ **WARNING!** If battery case cracks, Do Not permit smoking, open flame, sparks or any other source of heat around battery. Wear protective goggles, rubber apron and rubber gloves when working around battery. Battery electrolyte fluid is an extremely caustic sulfuric acid solution that can cause severe burns. If spill or leakage occurs, flush area with clear water immediately.

Battery Charger

Use battery charger jack with the provided battery charger to keep the starting battery charged and ready for use. Battery charging should only be done in a dry location, such as inside a garage.

- Lift the flap (Figure 22) covering the unit's "Battery Charger" jack. Plug charger into jack. Plug battery charger into a 120 Volt AC wall receptacle.
- Unplug the charger from the unit and the wall outlet when power washer is being started and while it is in operation.

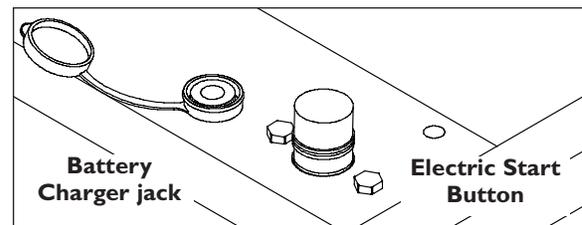


Figure 22 - Connect Battery Charger

Every 30 to 60 days, charge the battery for a 48 hour period. Longer charge times will shorten battery life, so do not charge battery for longer than 48 hours.

Even though the battery and charger jack connections are protected with insulating compound to avoid corrosion and prolong battery life, make sure the Battery Charger jack cover is closed whenever the unit is in operation. It is good practice to keep the cover closed unless the battery is being charged.

Other than battery charging, described above, no maintenance is required for the battery. If you have questions about battery use, call DR® at 1(800)DR-OWNER (376-9637).

Storage

After Each Use

Follow these procedures after every use. This is especially important if you live in an area with hard water, since sediments or minerals can deposit on pump parts and "freeze" pump action.

Flush Select-A-Wash System

- Fill the System Rinse tank with fresh clean water.
- While the power washer is running, push adjustable nozzle (2300 & 2500 PSI units) forward or twist dual nozzle extension handle (3000 PSI unit) for chemical application mode.
- Rotate the Select-A-Wash knob to the "System Rinse" legend. Allow clean water to be drawn through the system until no detergent foam is observed.
- Rotate the Select-A-Wash knob to the CHEMICAL OFF position.
- Shut off engine and let it cool.

Stow Equipment

- Disconnect hose from spray gun and high pressure outlet. Drain water from hose and use a rag to wipe off the hose.
- Coil the high pressure hose while you inspect it for damage. Cuts in the hose or fraying could result in leaks and loss of pressure. Should any damage be found, replace the hose. Do Not attempt to repair a damaged hose. Replace the hose with the genuine replacement part.
- Disconnect spark plug wire from spark plug.
- Empty the pump of all liquids by pulling recoil handle about 6 times. This should remove most of the liquid in the pump.
- If storing the unit for more than 30 days see "Winter Storage" on Page 20.
- Reconnect spark plug wire to spark plug.
- Store unit in a clean, dry area.

 **WARNING!** Never store the engine with fuel in the gas tank indoors or in enclosed, poorly ventilated areas where fumes may reach an open flame, a spark, or standing gas pilot.

Storing Hose on Optional Hose Reel

Disconnect hose from spray gun and high pressure outlet. Wipe off the hose with a rag. Store the hose on the hose reel as described on the instruction sheet supplied with the hose reel.

Other

Do Not store gasoline from one season to another.

If possible, store your unit indoors and cover it to give protection from dust and dirt. **BE SURE TO EMPTY THE FUEL TANK** if you cannot use a fuel stabilizer.

IMPORTANT: Never cover your power washer while engine and exhaust area are warm.

Winter Storage

If you plan to store the power washer more than 30 days, you must prepare the engine and pump as described in this section. Also refer to the engine owner's manual for instructions on engine storage. Be sure to charge the battery as described on Page 18.

Protect Fuel System

It is important to prevent gum deposits from forming during storage in essential fuel system parts, such as the carburetor, fuel hose or tank. Also, experience indicates that alcohol-blended fuels (see engine owner's manual) can attract moisture, which leads to fuel separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

 **WARNING!** Never store the engine with fuel in the gas tank indoors or in enclosed, poorly ventilated areas where fumes may reach an open flame, a spark, or standing gas pilot.

If adding a fuel stabilizing additive, such as Sta-Bil[®], fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. Engine and fuel can be stored up to 24 months with additive.

- Add fuel additive following manufacturer's instructions, then run the unit:
- Connect water supply to pump inlet and turn it ON.
- Run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.

If a fuel additive is not used, remove all fuel from tank and run engine until it stops from lack of fuel. Drain fuel into approved container outdoors, away from open flame. Be sure engine is cool. Do Not smoke.

Protect From Freezing

CAUTION! 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.

- Empty Select-A-Wash system and flush as described earlier. After flushing system, locate the hose connecting the pump and the Select-A-Wash knob. Disconnect hose from the pump and let the hose hang down.
- Disconnect engine spark plug wire and empty the pump of all pumped liquids by pulling recoil handle about 6 times.
- Connect a 3-foot section of garden hose to the water supply connector. Pour RV-antifreeze (antifreeze without alcohol) into the hose. Pull the recoil handle twice. Disconnect 3-foot hose.

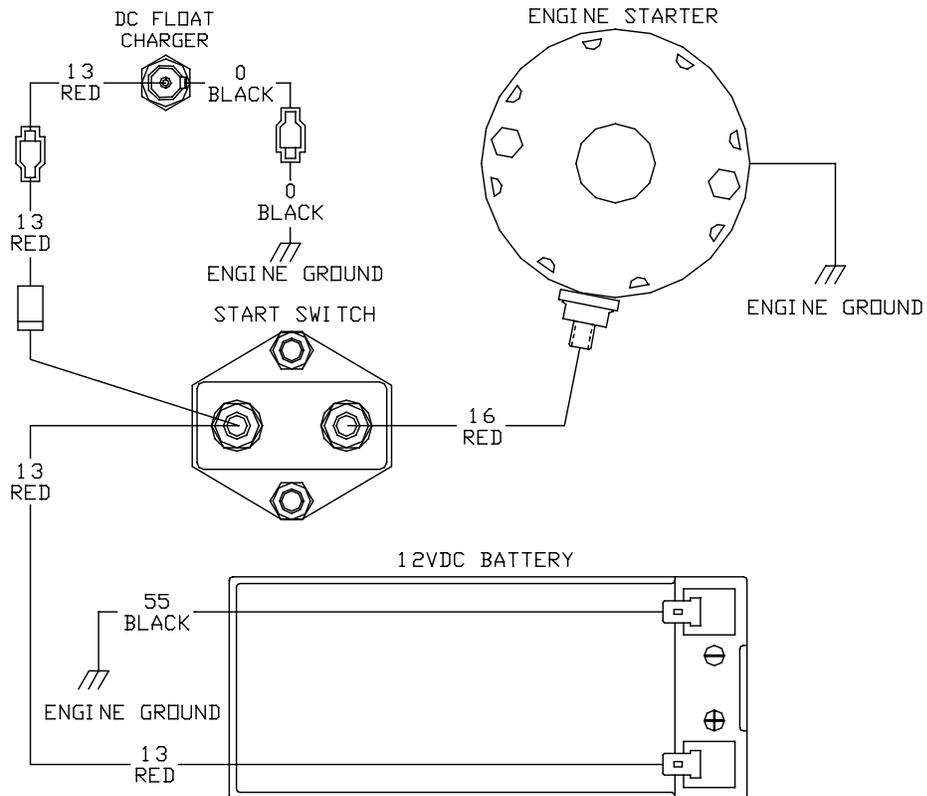
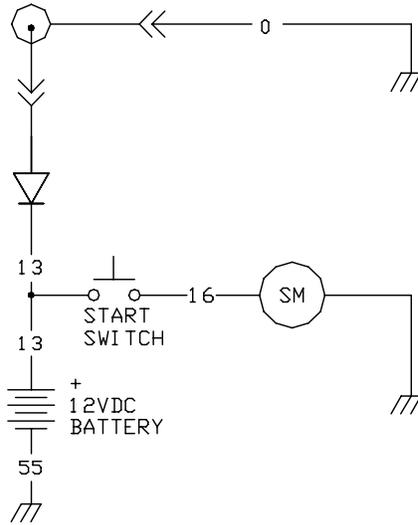
Troubleshooting

▲ CAUTION! Disconnect spark plug wire from spark plug and keep wire away from spark plug whenever performing engine maintenance.

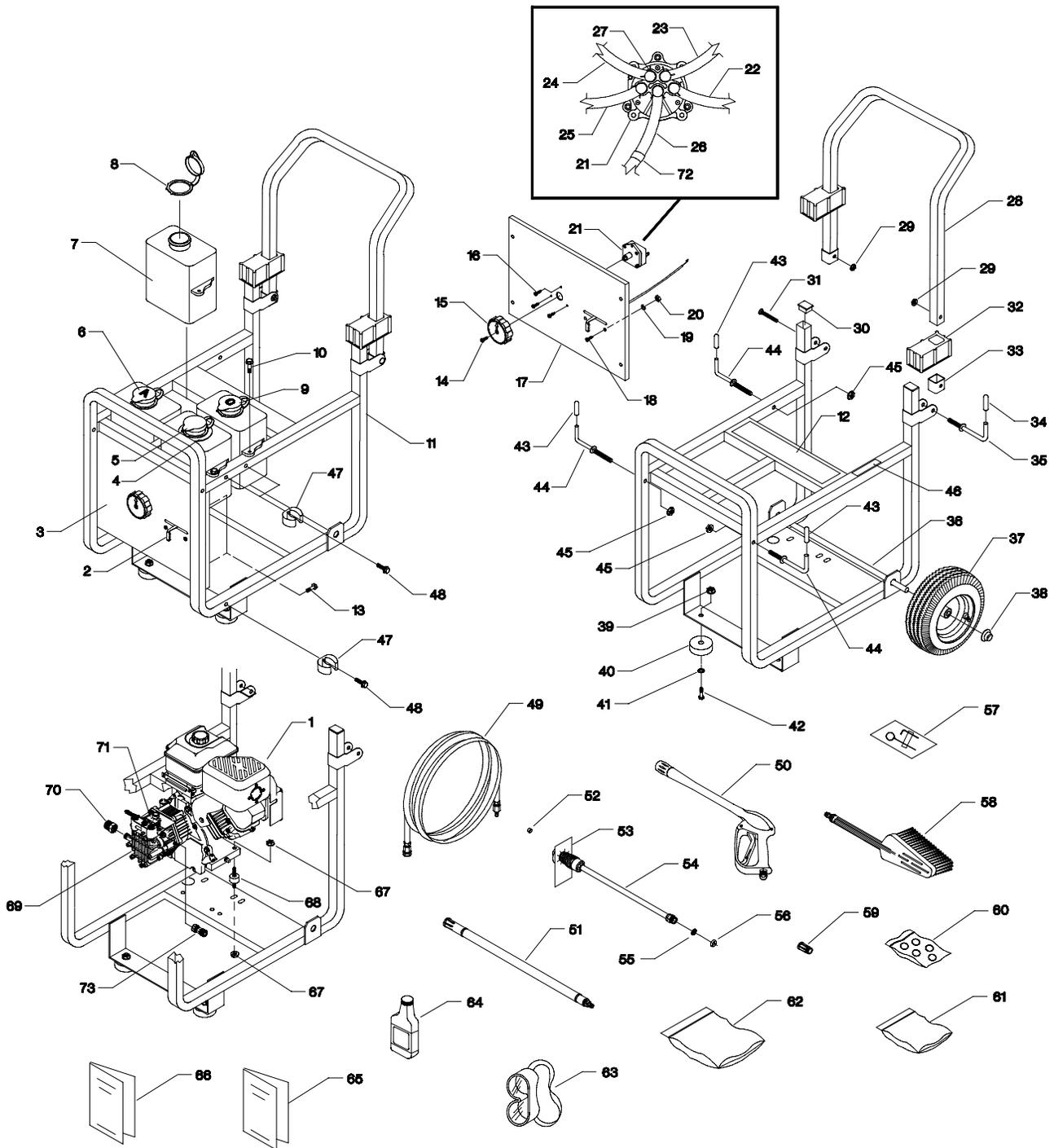
Problem	Cause	Correction
Pump has following problems: failure to produce pressure, erratic pressure, chattering, loss of pressure, low water volume.	<ol style="list-style-type: none"> Nozzle in chemical application mode. Water inlet is blocked. Inadequate water supply. Inlet hose is kinked or leaking. Clogged inlet hose strainer. Water supply is over 100°F. High pressure hose is blocked or leaks. Gun leaks. Nozzle is obstructed. Pump is faulty. 	<ol style="list-style-type: none"> 2300 & 2500 PSI units – pull nozzle backward for cleaning mode. 3000 PSI unit – twist nozzle extension handle fully clockwise. Clear inlet. Provide adequate water flow. Straighten inlet hose, patch leak. Check and clean inlet hose strainer. Provide cooler water supply. Clear blocks in outlet hose. Replace gun. Clean nozzle. Contact DR®.
Detergent fails to mix with spray.	<ol style="list-style-type: none"> Chemical not being dispensed. Dirty in-line filter. Nozzle is in cleaning mode. Chemical filter is clogged. 	<ol style="list-style-type: none"> Rotate Select-A-Wash knob to select desired chemical. See “Check In-Line Filter” on page 16. 2300 & 2500 PSI units – push nozzle forward to apply chemical. 3000 PSI unit – twist nozzle extension handle fully counterclockwise. Flush chemical tank with clean water. Contact DR®.
Engine runs good at no-load but “bogs” when load is added.	Engine speed is too slow.	Move Pressure Control to HIGH position. If engine still “bogs down”, contact DR®.
Engine will not start; or starts and runs rough.	<ol style="list-style-type: none"> Low oil level. Dirty air cleaner. Out of gasoline. Stale gasoline. Spark plug wire not connected to spark plug. Bad spark plug. Water in gasoline. Overchoking. Excessively rich fuel mixture. Intake valve stuck open or closed. Engine has lost compression. 	<ol style="list-style-type: none"> Fill crankcase to proper level. Clean or replace air cleaner. Fill fuel tank. Drain gas tank; fill with fresh fuel. Connect wire to spark plug. Replace spark plug. Drain gas tank; fill with fresh fuel. Open choke fully and crank engine. Contact DR®. Contact DR®. Contact DR®.
Engine shuts down during operation.	Out of gasoline.	Fill fuel tank.
Engine lacks power.	Dirty air filter.	Replace air filter.
Engine “hunts” or falters.	Choke is opened too soon.	Move choke to “RUN” position in increments until engine runs smoothly.

2500 & 3000 PSI Units - Schematic / Wiring Diagram

12 VDC FLOAT
CHARGER INPUT



2300 PSI Unit - Exploded View



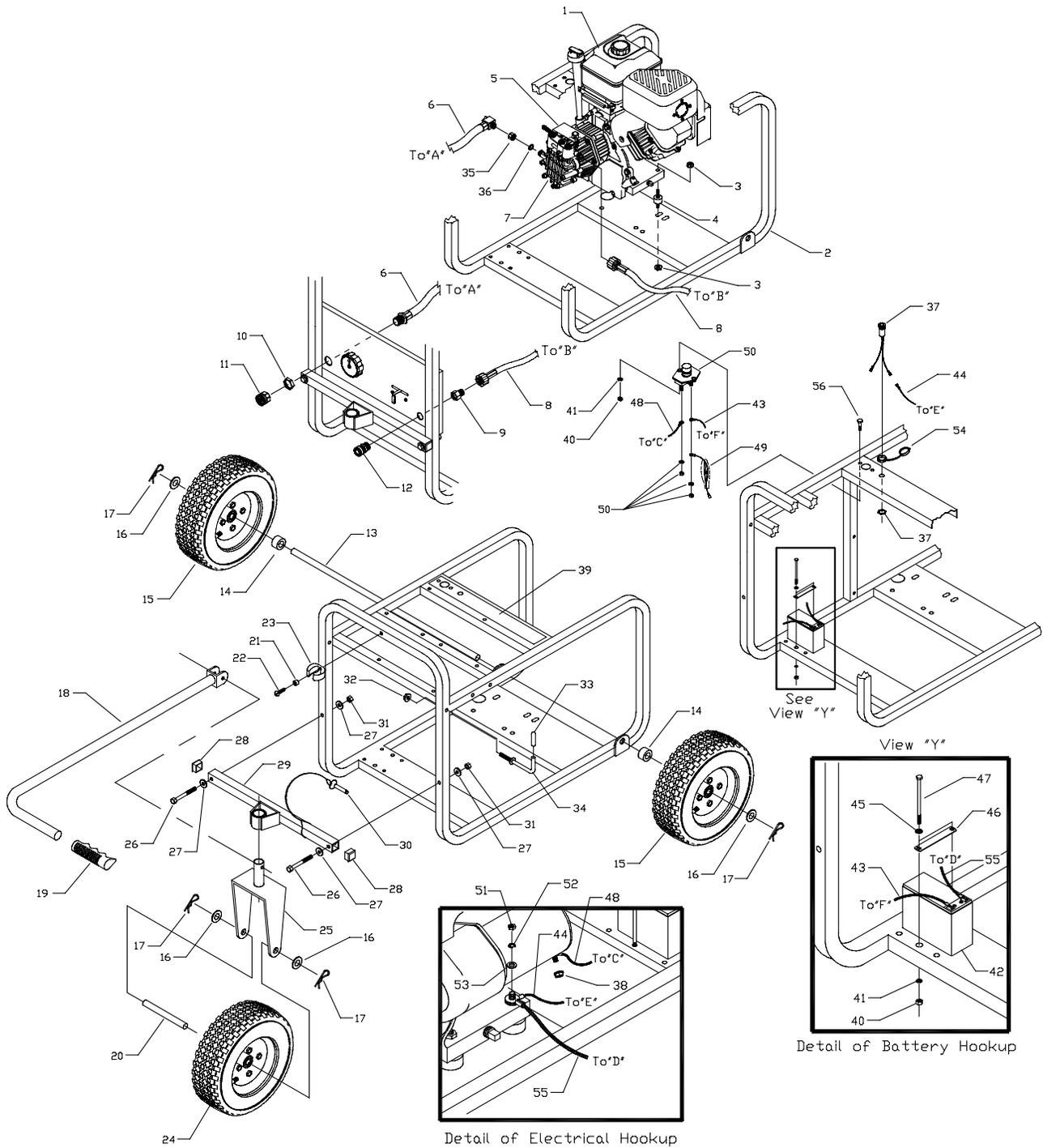
2300 PSI Unit - Parts List

Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	NSP	1	ENGINE	43	B2759B	3	HOOK, 5/16" - 18"
2	B3608D	1	LINK, Throttle Control	44	B2516	3	CAP, Vinyl, Black
3	188431	1	DECAL, Control Panel	45	99583	3	NUT, 5/16" - 18
4	188414A	1	TAG, System Flush Water	46	77816	1	DECAL, Caution Hot Muffler
5	B3222D	1	CAP, Chem Container "Water"	47	B2427B	3	CLIP, Spring
6	B3222A	1	CAP, Chem Container "A"	48	B5164	3	SELF DRILLER, #10 - 16 x 3/4"
7	B3594	4	ASSY., Chemical Tank 1/2 Gal.	49	187625	1	HOSE, 5/16" x 50'
8	B3222B	1	CAP, Chem Container "B"	50	B3263A	1	GUN, High Pressure
9	B3222C	1	CAP, Chem Container "C"	51	88934	1	EXTENSION
10	B3695	8	BOLT, 1/4"- 20 with Washer	52	94804	1	NOZZLE, Replacement
11	A188335	1	CRADLE, Red	53	97566	1	TAG, Nozzle Instructions
12	188845	1	DECAL, Start Instructions	54	B3335A	1	WAND, Nozzle Hi/Lo
13	86292	4	SELF DRILL, #10 - 16 x 3/4"	55	B4224	1	SCREEN, Gun Inlet
14	B3311	1	SCREW, Plastite #10 x .62"	56	97837	1	O-RING, Hi Pressure
15	B3721	1	HANDLE, 4-Way Valve	57	188287	1	KIT, Cleaning Nozzle
16	B3377	3	SCREW, Plastite #8 x .75"	58	88185	1	BRUSH, Utility
17	AB3113	1	PANEL, Control Red	59	88935	1	ADAPTER, Brush Extension
18	91526	2	SCREW, M5 - 0.8 x 12	60	B5830	1	KIT, Maintenance
19	49226	2	LOCK WASHER, M5	61	188420	1	KIT, Tag
20	51716	2	NUT, Hex M5 - 0.8	62	188421	1	KIT, 3 Pack Concentrate
21	B3306	1	ASSY., Sub 4-Way Valve	63	87815	1	GOGGLES, Safety
22	188401A	1	HOSE, "A" - 7.0"	64	BB3061B	1	OIL BOTTLE, 20 oz
23	188401B	1	HOSE, "B" - 8.5"	65	188344	1	MANUAL, Owners
24	188401C	1	HOSE, "C" - 11.0"	66	B3297	1	MANUAL, Engine
25	188401D	1	HOSE, "Water" - 8"	67	67989	8	NUT, Hex Locking Flange M8
26	B3601D	1	HOSE, Chemical Pump 10.5"	68	21217	4	MOUNT, Rubber Shock
27	48031G	4	CLAMP, Hose 13/32"	69	188850D	1	ASSY., Pump
28	AB2555	1	HANDLE, Red	70	21424	1	CONNECTOR, Garden Hose
29	B2071	2	NUT, 1/4" - 20 Flange Locking	71	B1288	1	TAG, Breather
30	46476	2	CAP PLUG, Tubing	72	48031C	2	CLAMP, Hose 1/2"
31	31669	1	BOLT, 1/4"-20 x 1-3/4" Carriage	73	185923	1	QUICK CONNECT
32	B1779	2	COVER, Hinge				
33	B2347	2	END CAP, Tube				
34	B1460	1	CAP, Vinyl Black				
35	B2759	1	HOOK, Square Neck Gun				
36	188434	1	AXLE ROD, 1/2" x 22.07"				
37	88521	2	ASSY., Wheel & Tire 10"				
38	75402	2	PUSHNUT, 1/2"				
39	52858	2	NUT, M8 - 1.25 Locking				
40	27007	2	MOUNT, Vibration Donut Type				
41	50190	2	FLAT WASHER, M8				
42	42909	2	HHCS, M8 x 1.25 x 30				

Optional Accessories (not illustrated):

Available for ALL models
 House/Multipurpose Wash Concentrate
 Deck Wash Concentrate
 Vehicle/Boat Wash Concentrate
 Degreaser Concentrate
 Hose Reel
 Heavy Duty Turbo Nozzle
 50' 3/8" Replacement Extension Hose

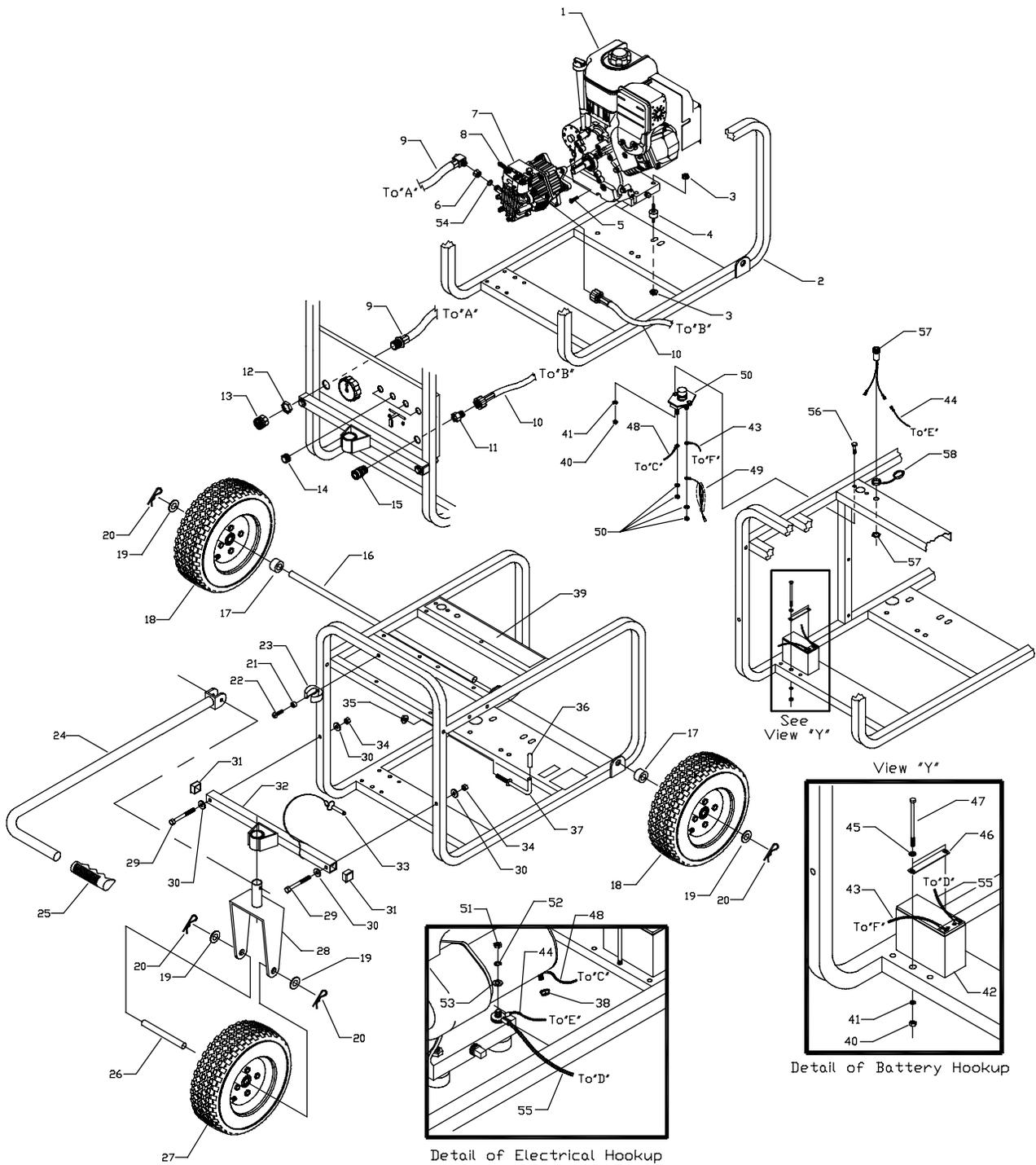
2500 PSI Unit - Frame Exploded View



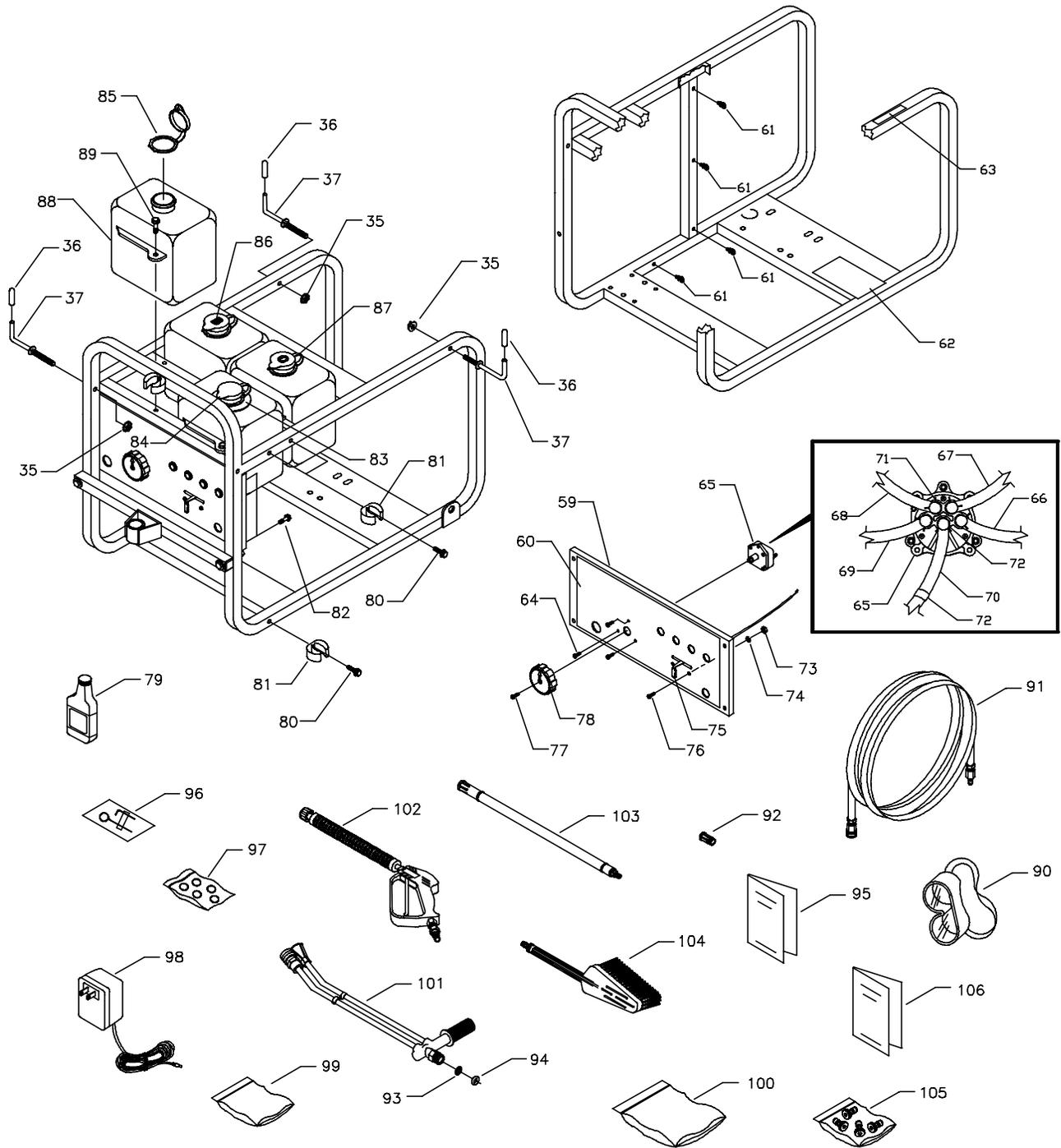
2500 PSI Unit - Parts List

Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	NSP	1	ENGINE	54	186133	1	COVER, DC Jack
2	A188346	1	CRADLE, Powder Coat Red	55	185931F	1	WIRE, Black, #55
3	67989	7	NUT, M8 Flange	56	22287	2	HHCS, 1/4" - 20 x 3/4"
4	21217	4	MOUNT, Vibration	57	A188361	1	PANEL, Control Powder Red
5	B1288	1	TAG, Breather Cap	58	188454	1	DECAL, Control Panel
6	188635	1	HOSE, Water Inlet	59	188818	4	CLIP, Release, Plastic
7	188547	1	PUMP, Med, 3/4, 7.5 HS	60	187915	1	DECAL, Warning/Danger
8	188654	1	HOSE, Water Outlet	61	77816	1	DECAL, Caution Hot Muffler
9	188441	1	ASSEMBLY, Adapter	62	B3377	3	SCREW, Plastite #8 x .75"
10	B3735	1	NUT, Water Inlet	63	B3306	1	ASSY., Sub 4-Way Valve
11	21424	1	CONNECTOR, Garden Hose	64	188402A	1	HOSE, Chemical "A" - 3-1/2"
12	95518	1	QUICK CONNECT	65	188402B	1	HOSE, Chemical "B" - 12"
13	93963A	1	AXLE, 15.88 x 681	66	188402C	1	HOSE, Chemical "C" - 16"
14	89635	2	SPACER, Wheel	67	188402D	1	HOSE, Chemical "Water" 11"
15	89742	2	WHEEL, 3.5 x 12	68	B3601E	1	HOSE, Chemical Pump 16"
16	22247	4	WASHER, Flat, 5/8"	69	48031G	4	CLAMP, Hose 13/32"
17	87005	4	PIN, Quick Release	70	48031C	2	CLAMP, Hose Band 1/2"
18	AB4122	1	HANDLE	71	51716	2	NUT, Hex M5 - 0.8
19	B4134	1	GRIP	72	49226	2	LOCK WASHER, M5
20	93693E	1	AXLE, 15.88 x 150	73	B3608E	1	LINK, Throttle Control
21	186569	1	BUMPER, Recess	74	91526	2	PPHMS, M5 - 0.8 x 12
22	B5164	1	SELF DRILLER, #10 - 16 x 3/4"	75	B3311	1	SCREW, Plastite #10 x .62"
23	B2427B	1	CLIP, Spring	76	B3721	1	HANDLE, 4-Way Valve
24	B4905	1	WHEEL, 4.0 x 12	77	87815	1	GOGGLES, Safety
25	AB3375	1	WELDMENT, Fork Pivot	78	B5164	3	SELF DRILLER, #10 - 16 x 3/4"
26	52203	2	HHCS, M8 - 1.25 x 70	79	B2427B	3	CLIP, Spring
27	96796	4	WASHER, 22.2 OD x 8.4 ID x 3	80	86292	4	SELF DRILL, 10 - 16 x 3/4"
28	46476	2	PLUG, PLastic, 1 Sq. Tube	81	188414A	1	TAG, System Flush Water
29	AB4115	1	ASSY., Pivot	82	B3222D	1	CAP, Chem Container "Water"
30	B4135	1	PIN, Handle Release	83	B3222A	1	CAP, Chem Container "A"
31	52858	2	NUT, M8 - 1.25 Lock	84	B3222B	1	CAP, Chem Container "B"
32	99583	3	NUT, 5/16"-18	85	B3222C	1	CAP, Chem Container "C"
33	B2516	3	CAP, Vinyl	86	B3599	4	ASSY., Chemical Tank 1 Gal.
34	B2759B	3	HOOK, 5/16-18	87	B3695	8	BOLT, 1/4" - 20 with Washer
35	188651	1	ADAPTER, M20 - 1.5	88	187625	1	HOSE, 5/16" x 50'
36	B2385	1	WASHER	89	B3297	1	MANUAL, Engine
37	186166	1	ASSEMBLY, Coaxial Jack	90	188344	1	MANUAL, Owners
38	B2071	1	LOCKNUT, 1/4" - 20, Flange	91	88185	1	BRUSH, Utility
39	188358	1	DECAL, Start Instructions	92	88935	1	ADAPTER, Brush Extension
40	22127	4	NUT, 1/4" - 20	93	BB3061B	1	OIL BOTTLE
41	22097	4	LOCKWASHER, 1/4"	94	188287	1	KIT, Cleaning Nozzle
42	185604	1	BATTERY	95	B5830	1	KIT, Maintenance
43	185931E	1	WIRE, Red, #13	96	B4177	1	CHARGER, Battery
44	185973B	1	WIRE, Black, #0	97	188420	1	KIT, Chemical Tags
45	22473	2	WASHER, 1/4"	98	188472	1	KIT, 6 Pack Concentrate
46	A187081	1	BRACKET, Battery	99	B3263A	1	GUN, 3200 PSI
47	188868	2	HHCS, 1/4" - 20 x 4-1/2"	100	B4224	1	SCREEN, Gun Inlet
48	185939E	1	WIRE, Red, #16	101	97837	1	O-RING, Gun Extension
49	186748	1	ASSEMBLY, Diode	102	B3335C	1	WAND, Hi - Lo Nozzle
50	77282	1	SWITCH, Starter	103	97566	1	TAG, Nozzle Instructions
51	45771	1	NUT, Hex M8 - 1.25	104	92661	1	NOZZLE, Replacement
52	22129	1	LOCKWASHER, M8	105	88934	1	EXTENSION
53	22145	1	WASHER, Flat M8				

3000 PSI Unit - Frame Exploded View



3000 PSI Unit - Parts Exploded View



3000 PSI Unit - Parts List

Item	Part #	Qty	Description	Item	Part #	Qty	Description
1	NSP	1	ENGINE	54	B2385	1	WASHER
2	A188346	1	CRADLE	55	185931F	1	WIRE, Black, #55
3	67989	7	NUT, M8 Flange	56	22287	2	HHCS, 1/4" - 20 x 3/4"
4	21217	4	MOUNT, Vibration	57	186166	1	ASSY., Coaxial Jack
5	23707	4	SHCS, 5/16" - 24 x 1"	58	186133	1	COVER, DC Jack
6	188651	1	ADAPTER, M20 - 1.5	59	A188361A	1	PANEL, Control Powder Red
7	B1288	1	TAG, Breather Cap	60	188362	1	DECAL, Control Panel
8	185669S	1	ASSY., Pump	61	188818	4	CLIP, Release, Plastic
9	188635	1	HOSE, Water Inlet	62	187915	1	DECAL, Warning/Danger
10	188654	1	HOSE, Outlet, Water	63	77816	1	DECAL, Caution Hot Muffler
11	188441	1	ASSEMBLY, Adapter	64	B3377	3	SCREW, Plastite #8 x .75"
12	B3735	1	NUT, Water Inlet	65	B3306	1	ASSY., Sub 4-Way Valve
13	21424	1	CONNECTOR, Garden Hose	66	188402A	1	HOSE, Chemical "A" - 3.5"
14	30809	4	GROMMET, Rubber	67	188402B	1	HOSE, Chemical "B" - 12"
15	95518	1	QUICK CONNECT	68	188402C	1	HOSE, Chemical "C" - 16"
16	93693A	1	AXLE ROD, 15.88 x 681	69	188402D	1	HOSE, Chemical "Water" 11"
17	89635	2	SPACER, Wheel	70	B3601E	1	HOSE, Chemical Pump
18	89742	2	WHEEL, 3.5 x 12	71	48031G	4	CLAMP, Hose 13/32"
19	22247	4	WASHER, Flat 5/8"	72	48031C	2	CLAMP, Hose Band 1/2"
20	87005	4	PIN, Quick Release	73	51716	2	NUT, Hex M5 - 0.8
21	186569	1	BUMPER, Recess	74	49226	2	LOCK WASHER, M5
22	B5164	1	SELF DRILLER, #10 - 16 x 3/4"	75	B3608E	1	LINK, Throttle Control
23	B2427B	1	CLIP, Spring	76	91526	2	PPHMS, M5 - 0.8 x 12
24	AB4122	1	HANDLE	77	B3311	1	SCREW, Plastite #10 x .62
25	B4134	1	GRIP	78	B3721	1	HANDLE, 4-Way Valve
26	93693E	1	AXLE, 15.88 x 150	79	BB3061	1	OIL BOTTLE
27	B4905	1	WHEEL, 4.0 x 12	80	B5164	3	SELF DRILLER, #10 - 16 x 3/4"
28	AB3375	1	WELDMENT, Fork Pivot	81	B2427B	3	CLIP, Spring
29	52203	2	HHCS, M8 - 1.25 x 70	82	86292	4	SELF DRILL, 10 - 16 x 3/4"
30	96796	4	WASHER, 22.2 OD x 8.4 ID x 3	83	188414A	1	TAG, System Flush Water
31	46476	2	PLUG, Plastic., 1 Sq. Tube	84	B3222D	1	CAP, Chem Container "Water"
32	AB4115	1	ASSY., Pivot	85	B3222A	1	CAP, Chem Container "A"
33	B4135	1	PIN, Handle Release	86	B3222B	1	CAP, Chem Container "B"
34	52858	2	NUT, M8 - 1.25 Lock	87	B3222C	1	CAP, Chem Container "C"
35	99583	3	NUT, 5/16" - 18"	88	B3599	4	ASSY., Chemical Tank 1 Gal.
36	B2516	3	CAP, Vinyl	89	B3695	8	BOLT, 1/4" - 20 with Washer
37	B2759B	3	HOOK, 5/16" - 18	90	87815	1	GOGGLES, Safety
38	B2071	1	LOCKNUT, 1/4"-20, Flange	91	B4805	1	HOSE, 3/8" x 50'
39	188561	1	DECAL, Start Instructions	92	88935	1	ADAPTER, Brush Extension
40	22127	4	NUT, 1/4"-20	93	B4224	1	SCREEN, Gun Inlet
41	22097	4	LOCKWASHER, 1/4" - M6	94	97837	1	O-RING, Gun Extension
42	187079	1	BATTERY	95	188826	1	MANUAL, Engine
43	185931E	1	WIRE, Red, #13	96	188287	1	KIT, Cleaning Nozzle
44	185973B	1	WIRE, Black, #0	97	B5830	1	KIT, Maintenance
45	22473	2	WASHER, 1/4"	98	B4177	1	CHARGER, Battery
46	A187081	1	BRACKET, Battery	99	188420	1	KIT, Chemical Tags
47	26586	2	HHCS, 1/4" - 20 x 5"	100	188472	1	KIT, 6 Pack Concentrate
48	185939E	1	WIRE, Red, #16	101	B1748	1	WAND, Dual
49	186748	1	ASSEMBLY, Diode	102	B1436B	1	GUN, Molded Grip
50	77282	1	SWITCH, Starter	103	88934	1	EXTENSION
51	45771	1	NUT, Hex M8 - 1.25	104	88185	1	BRUSH, Utility
52	22129	1	LOCKWASHER, M8	105	188867	1	KIT, Nozzles
53	22145	1	WASHER, Flat M8	106	188344	1	MANUAL, Owners

Limited Power Washer Warranty

COUNTRY HOME PRODUCTS® (hereafter referred to as the COMPANY) warrants to the original retail purchaser, the power washer manufactured by the COMPANY to be free from defects in material and workmanship for the period(s) set forth below from the date of original purchase. This warranty is not transferable. The term “original purchaser” means the person for whom the power washer is originally purchased.

Warranty Schedules

		CONSUMER*	COMMERCIAL*
Engine-driven Power Washer	Engine:	Warranted solely by Engine Manufacturer	Warranted solely by Engine Manufacturer
	Pump:	1 year	90 days

*** NOTE: For the purpose of this warranty “consumer” use means personal residential household use by original purchaser. “Commercial” use means all other uses, including rental, construction, commercial and income producing purposes. Once a power washer has experienced commercial use, it shall thereafter be considered a commercial use power washer for the purposes of this warranty.**

During said warranty period, the COMPANY will, at its option, repair or replace any part which, upon examination by the COMPANY or COMPANY-Authorized Dealers, is found to be defective under normal use and service**. All transportation costs under warranty, including return to the factory if necessary, are to be borne by the purchaser and prepaid by the purchaser.

**** NORMAL WEAR: As with all mechanical devices, power washers need periodic parts, service, and replacement to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or power washer pump.**

This warranty does not include: Used products and demonstration equipment. Parts, such as GUNS, HOSES, WANDS, NOZZLES or other wear items such as quick couplers, oil, o-rings, filters, pump packing, etc. Pumps which have been run without water supplied. This warranty does not include damage or malfunctions resulting from: accidents, abuse, modifications, alterations, or improper servicing. Freezing or chemical deterioration. Normal maintenance such as adjustments, fuel system cleaning and obstruction (due to chemical, dirt, carbon or lime, etc.).

THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, SPECIFICALLY, THE COMPANY MAKES NO OTHER WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD AS SPECIFIED IN THE EXPRESS WARRANTY. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF THE COMPANY'S NEGLIGENCE. THE COMPANY ALSO DISCLAIMS ANY RESPONSIBILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES SUCH AS THE LOSS OF TIME OR THE USE OF THE POWER EQUIPMENT, OR ANY COMMERCIAL LOSS DUE TO THE FAILURE OF THE EQUIPMENT: AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

For service, call COUNTRY HOME PRODUCTS® at 1-800-DR-OWNER (376-9637).

Daily Checklist For the DR® Power Washer

To help maintain your DR® Power Washer for optimum performance, we recommend you follow this checklist each time you use your machine. See the appropriate section of this manual or your Engine Owner's Manual for instructions.

- ✓ **GAS:** Fill the gas tank with clean, fresh, unleaded gas. Be careful not to spill gas. Always leave airspace at the top of the tank.
- ✓ **OIL:** Check the oil level and add more if necessary. Use recommended oil.
- ✓ **AIR FILTER:** A clean air filter will mean a much easier-starting and better running engine.
- ✓ **WATER INLET SCREEN:** Check for debris and damage.
- ✓ **HIGH PRESSURE HOSE:** Check for leaks.
- ✓ **CHEMICAL TANKS AND FILTERS:** Check for damage and leaks.
- ✓ **SPRAY GUN AND ATTACHMENTS:** Check for leaks.



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