

# Owner's Manual PROFESSIONAL 4000 HOT

Warning: These are commercial grade pressure washing machines intended for use by trained operators. Read this manual thoroughly to avoid personal injury or property damage.



Warning: This product can expose you to chemicals including soots, tars, lead, and mineral oils, which are known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Thanks for purchasing a Vortexx Pressure Washer. You have chosen the best in innovation and design in the pressure washer industry. Vortexx products are proudly designed and manufactured in Michigan with local and imported components. We exclusively use premium grade Honda Engines to power our Pressure Washers and we strive to use only quality grade materials and test all components for your satisfaction and safety. When operated and maintained according to the instructions in this manual, your Vortexx pressure washer will provide many years of dependable service.

Read this manual carefully and become familiar with your pressure washer. Know its applications, its limitations and any hazards involved. Vortex Industries, Inc. reserves the right to change, alter or otherwise improve the product and this document at any time without notice. This manual is an important part of your pressure washer and should be kept with the unit. By reading and following the simple safety, operation, maintenance steps described in this manual, you will receive years of trouble free and safe cleaning excellence. The contents of this manual are based on current information at the time of publication. Vortex Industries, Inc. reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice. Please visit our website at www. vortexxpressurewashers.com for the most recent product updates or to find a local authorized Vortexx Pressure Washer dealer.

Once the unit has been un-crated, immediately write in the serial number of your unit in the space provided below (see page 11 for details on where to find your serial number). Follow the instructions completely and save them for future reference. Product Identification: Please register at www.vortexxpressurewashers.com within 30 days of purchase. Note you may also detach the back page of this manual and follow the mailing instructions.

Serial #	Date Purchased:	
Dealer Name	Phone:	

Upon delivery, inspect your unit for damage and if something appears to be damaged, file a claim with the transportation company immediately. Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation of the unit. If you require service, contact Vortexx Pressure Washers at info@vortexindustriesinc.com.

Please include the following information:

1. Model Number 2. Serial Number 3. Date and Place of Purchase

You may also find a local authorized Vortexx dealer or service center on the web at www.vortexxpressurewashers.com. If you have specific questions or would like troubleshooting info about the Honda Engine or the pump on this product, please refer to the included engine and pump manuals.

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#### **Understanding the Machine Safety Labels**

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

#### **Hazard Symbols and Meanings**

Safety Rules:

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. The safety alert symbol ( 🗥 ) is used with a signal word (DANGER, CAUTION, WARNING) to alert you to hazards.



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



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



CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury and or potential damage to property or equipment.



#### Warning Label

A warning label (Figure 1) is provided on your unit to inform you of potential safety hazards. If the label becomes damaged or illegible, replace it by contacting your local Vortexx dealer to obtain a new one or requesting one by sending an e-mail to info@vortexindustriesinc.com.

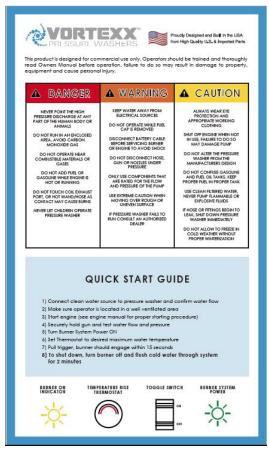
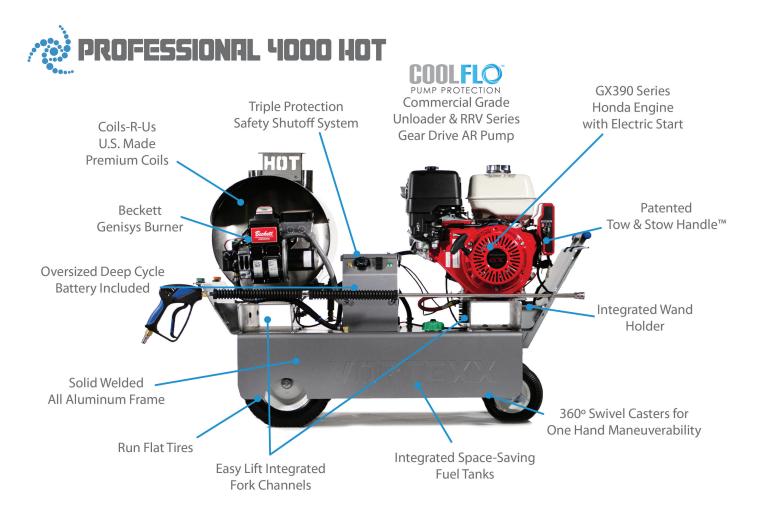


Figure 1







IMPORTANT: Read entire owner's manual before you attempt to operate your new pressure washer. For electric units, read AR manual included.

#### Remove Pressure Washer From Pallet

- Remove all accessories and parts bag included with pressure washer
- Remove all other packaging
- Roll pressure washer off of pallet

#### Preparing Pressure Washer for Use - Quick Start Guide

If you have any questions about this pressure washer after reading the enclosed manuals, or if parts are missing or damaged, contact your local Vortexx Dealer or e-mail Info@vortexindustriesinc.com. To prepare your pressure washer for operation, you will need to perform these simple tasks:

- 1) Read this manual completely
- 2) Connect clean water source to pressure washer and confirm water flow
- 3) Start engine (see engine manual for proper starting procedure)
- Securely hold gun and test water flow and pressure 4)
- 5) Turn Burner System Power ON
- 6) Set Thermostat to desired maximum water temperature
- 7) Pull trigger, burner should engage within 15 seconds
- To shut down, turn burner off and flush cold water through system for 2 minutes 8)



#### **Add Engine Oil**

NOTICE - IMPORTANT: Any attempt to crank or start the engine before it has been properly serviced with the recommended oil may result in an engine failure.

Note: Replace red shipping oil plug with yellow and black vented cap provided.

- For best results, use only the high quality oil recommended in the Honda engine Owner's Manual or the oil that is included with this unit
- Note: some Vortexx Pressure Washer Models are drained of oil for shipping purposes, always check your oil dipstick before attempting to start your pressure washer
- Place the pressure washer on a level surface
- Fill engine with oil if needed, as described in the engine owner's manual that is included in this package

NOTE: Check oil often during initial operation, as explained in the engine owner's manual.



#### **Add Gasoline**

🔼 WARNING! NEVER fill fuel tank indoors. NEVER fill fuel tank when engine is running or hot. Allow unit to cool for 5 minutes before refueling. DO NOT light a cigarette or smoke while filling the fuel tank.



MARNING! DO NOT overfill the fuel and allow room for fuel expansion.



CAUTION! Use regular UNLEADED gasoline with the pressure washer engine. DO NOT use alcoholblended fuels. DO NOT mix oil with gasoline.

- Clean area around fuel fill cap, remove cap. Slowly add "UNLEADED" regular gasoline to fuel tank.
- Use a funnel to prevent spillage. Slowly fill tank to about 1.5" below the top of the fill hole
- Replace fuel cap and wipe up any spilled gasoline
- Do not store fuel or clean-up rags in closed space



CAUTION! NEVER use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



#### Connect Hose and Water Supply to Pump



MOTICE - IMPORTANT: Assemble the nozzle extension to the spray gun and attach all hoses before starting the engine. Failure to connect water supply before starting will damage the pump!

- Uncoil the high pressure hose and attach one end of the hose to the base of the spray gun. Tug on hose to be sure of a tight connection.
- Attach the other end of the high pressure hose to the high pressure outlet on the pump. Tug on hose to be sure of a tight connection.
- Locate the pressure washer near an outside water source that exceeds the GPM rating shown on the pressure washer. Use a minimum of a 5/8 garden hose.
- Before you connect your garden hose to the water inlet, inspect the inlet screen. Clean the screen if it contains debris, replace if damaged.



### CAUTION! DO NOT RUN THE PRESSURE WASHER IF THE SCREEN IS DAMAGED.

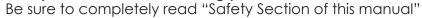
- Run water through your garden hose for 30 seconds to clean out any debris. Turn off water. IMPORTANT: DO NOT siphon standing water for the water supply.
- Connect the garden hose to the water inlet. Tighten by hand.



CAUTION! There MUST be adequate unrestricted garden hose between the pressure washer inlet and the water shut-off valve. Damage to pressure washer resulting from disregarding this warning will not be covered by the warranty.

• Turn ON the water, point the gun away from any danger and squeeze the trigger on the gun to purge the pump system of air and debris.

#### Safety Checklist Before Starting your Pressure Washer:





Warning: Never point the high pressure discharge at any part of the human body or animals.

Warning: Always Keep water away from electrical sources.

Warning: Always wear eye protection and appropriate work clothing, including insulated gloves.

Warning: Do not let children operate pressure washer

Warning: Never operate gas engines in confined spaces, always have adequate ventilation.

Warning: This pressure washer is designed to pump clean filtered water, never pump flammable or explosive fluids.

Warning: Severe burn hazard potential, never touch wand or nozzles without adequate cool down period.



Caution: Do not disconnect hose, gun or nozzles under pressure.

Caution: Shut off unit when not in use, failure to do so may result in damaging the pump.

Caution: Do not alter the pressure washer from the manufactures design.

Caution: Do not disconnect hose, gun or nozzles under pressure.

Caution: Use only components that are rated for the flow and pressure of the pump, this would include hose, fittings, safety valves, spray guns, etc.

Caution: Check hose connections and tighten if necessary.

Caution: Check to make sure that there are no kinks, cuts, or damage to the high pressure hose or water supply hose.

#### How to Use Your Pressure Washer

If you have any questions about operating your pressure washer, please contact your local Vortexx Dealer or e-mail info@vortexxindustriesinc.com.



MARNING! Be extremely careful if you must use the pressure washer from a ladder, scaffolding or any other relatively unstable location. Hose water pressure builds as you climb. When you press the trigger, the recoil from the initial spray can be very strong. The high pressure spray could cause you to fall if you are too close to the surface to be cleaned.



#### **How to Start Your Pressure Washer**

To start your pressure washer for the first time, follow these instructions step-by-step. This starting information also applies if you have let the pressure washer sit for more than 24 hours.

- Make sure unit is in a level position and that the gas and burner fuel tanks have adequate fuel.
- Caution: Do not mix gas and diesel fuel, keep in separate tanks as labeled.
- Check that the high pressure hose is tightly connected to the spray gun and to the pump.
- Check that the garden hose is connected to the water inlet on the pressure washer pump. Turn the water on to maximum flow.

#### riangle CAUTION! DO NOT run the pump without the water supply connected and turned on. You must follow this caution or the pump will be damaged.

- Squeeze the trigger on the spray gun until you have a steady stream of water. This purges the pump of air and debris.
- Apply the safety latch to the spray gun trigger.
- Start the engine according to the engine owner's manual. NOTE: If the recoil starter is hard to pull, release the safety latch, squeeze the spray gun trigger to relieve internal pump pressure and reset the safety latch before attempting to start again.



WARNING! Motors are factory programmed and tested. Tampering of motor may void warranty.

#### **How to Stop Your Pressure Washer**

• Turn engine off according to the engine owner's manual.



CAUTION: Shutting off the engine will not release pressure in the system. Point the gun away from objects that can be damaged and squeeze trigger on the spray gun to relieve pressure in the hose.

CAUTION: Do not disconnect hose or gun under pressure. Before disconnecting discharge hose from water outlet, turn burner off and open spray gun to allow water to cool below 100° before stopping the machine. Then open the spray gun to relieve pressure. Failure to properly cool down or maintain the heating coil may result in a steam explosion.

#### How to Use the Nozzles



🔼 CAUTION! NEVER exchange nozzles without locking the safety latch on the trigger (figure 2). The quick—connect on the nozzle extension allows you to switch between several different nozzles. Each nozzle provides a unique spray pattern and can work to better clean in different situations:

- Engage the safety latch on the spray gun. 1)
- 2) Pull back the collar on the quick-connect and pull the current nozzle off. Store the nozzle in the space provided on the cart.

#### Nozzle Selection (nozzle orifice varies by unit) **0 DEGREE- BLASTING**

- Removing caked on mud from heavy construction, farm or lawn equipment.
- Cleaning tar, glue or stubborn stains from concrete.
- Cleaning overhead areas.
- Removing rust from steel and oxidation from aluminum.

#### 15 DEGREE- STRIPPING

- Removing paint from wood, masonry or metal.
- Removing grease or dirt from equipment.
- Removing heavy mildew stains.
- Removing marine growth from boats and marine equipment.
- Removing rust from steel and oxidation from aluminum.

#### 25 DEGREE- CLEANING

- General cleaning of dirt, mud and grime.
  - Cleaning roofs, gutters and downspouts.
- Removing light mildew stains.
- Removing algae and bacteria build-up from pools.
- Rinsing surfaces in preparation for painting.

#### 40 DEGREE- WASHING

- Light cleaning and washing.
- Washing and rinsing of automobiles and boats.
- Cleaning roofs, windows, patios and driveways.



Pull back on the collar, insert the new nozzle and release the collar. Tug on the nozzle to make sure it is securely in place. For most effective cleaning, keep the spray nozzle between 8 to 24 inches away from the surface to be cleaned. If you get the spray nozzle too close, you may damage the surface. DO NOT get closer than 6 inches when cleaning automobile tires, fabrics or anything that can puncture or tear.

#### If Your Unit is Equipped with the Roto Jet Turbo Nozzle

Note the turbo nozzle rotates the high pressure stream in a rapid circular pattern. The high pressure spray is most effective when the tip of the nozzle extension is held between 8 to 24 inches from the surface being cleaned. Start the turbo nozzle at a distance, gradually getting closer to the surface until you get the cleaning force you want.



MARNING! The turbo nozzle produces an extremely high pressure spray which is capable of removing paint and cutting holes through surfaces if held too close. Always make sure the surface you will clean will not be damaged by the high pressure spray by testing in a hidden area. NOTE: Detergent cannot be applied with the turbo nozzle.



MARNING! Water temperature can rise up to 200°. Make sure cleaning surface is not sensitive to heat.

#### **Using Soaps and Detergents**

IMPORTANT: Use soaps designed specifically for pressure washers. Household detergents may damage the pump. To apply detergent follow these steps:

- Review the use of the nozzles.
- Prepare the detergent solution as required by the chemical manufacturer.



• Place the chemical injection siphon/filter into the detergent container.

### CAUTION! Keep the chemical injection tube from coming in contact with the hot muffler.

- If your unit is equipped with quick-connect nozzles, make sure the black nozzle is installed. Detergent cannot be applied with the high pressure quick-connect nozzles (White, Green, Yellow, or Red).
- Apply the detergent to a dry surface, starting at lower portion of area to be washed and work upward, using long, even, overlapping strokes. DO NOT allow the detergent to dry on (prevents streaking).
- Reapply as needed to prevent surface from drying. Note: Always refer to chemical manufacturers instructions for best results.

#### **Pressure Washer Rinsing**

After you have applied detergent, scour the surface with the high pressure water stream and then rinse it clean, as follows:

- Apply safety latch to spray gun.
- Replace the black soap nozzle with an appropriate rinse nozzle.
- Keep the spray gun a safe distance from the area you plan to spray.
- Disengage the safety latch on the spray gun. Rinse soap from surface working from the top down in an even pattern.



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

#### **Cleaning Detergent Siphoning Tube**

- Place the chemical injection siphon/filter in a bucket full of clean water.
- Attach the black low pressure nozzle or slide the adjustable nozzle forward to low pressure mode.
- Flush for 1-2 minutes with fresh water.

#### **General Maintenance Recommendations**

The pressure 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 pressure washer as instructed in this manual and the included engine and pump manuals.

- Some adjustments must be made periodically to properly maintain your high pressure washer.
- All maintenance in this manual and the pump and engine owner's manuals should be made at least once each season.

#### Before Each Use

- Check engine oil level.
- Check in-line filter for damage.
- Check water inlet screen for damage.
- Check high pressure hose for leaks.
- If equipped, check detergent siphoning tube and filter for damage.
- Check spray gun, nozzle extension, and nozzles for leaks.
- Rinse out garden hose to flush out debris before connecting to pressure washer.



CAUTION: Do not allow to freeze in cold weather - Always prep pump with AR pump saver if unit is to sit for extended period of time.

CAUTION: The high pressure hose can develop leaks from wear, kinking, or abuse. Inspect the hose each time before using it. Check for cuts, leaks, abrasions or bulging of cover, damage or movement of couplings. If any of these conditions exist, replace the hose immediately.

WARNING! NEVER repair a high pressure hose. Replace it with another hose that exceeds the maximum pressure rating of your pressure washer.

- Check Gun and Nozzle Extension
- Check the hose connection to the spray gun and make sure it is secure. Test the trigger by pressing it and making sure it springs back into place when you release it.
- Check the trigger safety. Put the safety latch in the "On" position and test the trigger. You should not be able to press the trigger.

#### Note: 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 or sand. To correct the problem, immediately clean the nozzle.

#### **Engine and Pump Maintenance**

See the engine owner's manual for instructions on how to properly maintain the engine. See the AR pump owner's manual for instructions on how to properly maintain the pump.

#### Preparing the Unit for Storage

Water should not remain in the unit for long periods of time. Sediments or minerals can deposit on pump parts and "freeze" pump action. If you do not plan to use the pressure washer for more than 30 days, follow this procedure:

- 1. Flush detergent siphoning tube by placing the filter into a pail of clean water while running pressure washer in low pressure mode. Flush for one to two minutes.
- 2. Shut off engine and let it cool, then remove all hoses. Disconnect spark plug wire from spark plug.
- 3. Empty the pump of all pumped liquids by pulling the recoil handle about 6 times. This should remove most of the liquid in the pump.
- 4. Draw AR Pump Saver antifreeze (non-alcohol) Part # VXAR64511 into the pump by attaching squeeze bottle to garden hose connector on pump. Squeeze bottle while pulling recoil handle two or three times until anti-freeze has circulated throughout the pump.
- 5. Store unit in a clean, dry area.
- 6. Hot water units may require 2 or more bottles of pump saver to thoroughly flush total system.

#### Storing the Engine



#### LIMITED WARRANTY for new Vortex Industries, Inc. - Vortexx Pressure Washers

- A. GENERAL PROVISIONS The warranties described below are provided by Vortex Industries, Inc. ("Vortexx") to the original purchasers of new Vortexx Pressure Washers from Vortex Industries, Inc. or authorized Vortexx dealers. Under these warranties, Vortexx will repair or replace, at its option, any covered part which is found to be defective in material or workmanship during the applicable warranty term. Warranty service must be performed by a service dealer authorized by Vortex Industries, Inc. to service the type of product involved, which will use only new or remanufactured parts or components furnished by Vortex Industries, Inc. To find your local dealer go to www.vortexxpressurewashers.com or e-mail info@vortexindustriesinc.com. After examination of the part, the service dealer will determine whether the part is eligible for warranty service and if so, whether to repair or replace the parts. Warranty service will be performed without charge to the purchaser for parts. The purchaser will be responsible, however, for any service call and/or transportation of product to and from the dealer's place of business. The purchaser will be responsible for any service and/or maintenance not directly related to any defect covered under the warranties below. To be eligible for warranty service, the purchaser should register the product by returning the product registration form on the back of this Manual by mail or by registering electronically through the Vortexx web page http://www.vortexxpressurewashers.com within 30 days of the date of purchase. These warranties are transferable with the sale of the product, provided Vortexx is notified of the ownership change by the seller.
- **B. WHAT IS WARRANTED** All parts of the new Vortexx Pressure Washer frame, excluding paint and tires, are warranted for the life of the product. The engines and pumps are not covered under the Vortexx warranties. The engine, pumps, coils and burners are warranted by the manufacturers of the items whose warranties are described in separate documents which are provided with each pressure washer. The separate warranty documents from the manufacturers of the engines and pumps are also available on the Vortexx website www.vortexxpressurewashers.com and/or from the Vortexx authorized dealers.
- C. WHAT IS NOT WARRANTED Vortex Industries, Inc. is not responsible for the following:
- (1) Used Products;
- (2) Any product that has been altered or modified in ways not approved by Vortexx, including, but not limited to, engine modifications, engine settings, changing or replacement of connectors and fittings, any modification to pumps (see pump and engine manuals for more detail)
- (3) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage, or accident;
- (4) Normal maintenance parts and service;
- (5) Excluded parts including quick couplers, belts, O-rings filters, tires, plastic fittings, paint, accessory parts including guns, hoses, wands, nozzles and other accessory parts.
- **D. SECURING WARRANTY SERVICE** To secure warranty service, the purchaser must (1) Report the product defect to an authorized service dealer or e-mail service@vortexindustriesinc.com and request repair within the applicable warranty term, (2) Present evidence of the warranty start date, and (3) Make the product available to the service dealer within a reasonable period of time. Purchaser can find the nearest authorized service dealer by looking at http://www.vortexxpressurewashers.com.
- **E. LIMITATION OF IMPLIED WARRANTIES AND CERTAIN REMEDIES** –To the extent permitted by law, neither Vortexx nor any company affiliated with it makes any warranties, representations or promises as to the quality or performance of the products covered by this warranty. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT APPLICABLE, SHALL BE LIMITED IN DURATION TO THE APPLICABLE PERIOD OF



WARRANTY SET FORTH ON THIS LIMITED WARRANTY. THE PURCHASER'S ONLY REMEDIES IN CONNECTION WITH THE BREACH OF PERFORMANCE OF ANY WARRANTY ON THE VORTEXX PRODUCTS ARE THOSE SET FORTH IN THIS LIMITED WARRANTY. IN NO EVENT WILL THE DEALER, VORTEX INDUSTRIES, INC. OR ANY COMPANY AFFILIATED WITH VORTEX INDUSTRIES, INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOSS OF ACTUAL OR ANTICIPATED PROFITS, LOSS OF USE, LOSS OF REVENUE, LOSS OF ANTICIPATED SAVINGS, LOSS OF BUSINESS, LOSS OF OPPORTUNITY, LOSS OF GOODWILL AND/OR LOSS OF REPUTATION. (Note: 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 and exclusions may not apply to you.)

- F. HOW STATE LAW APPLIES THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
- **G. NO DEALER WARRANTY** The selling Vortexx dealer makes no separate warranty of its own and the dealer has no authority to make any representation or promise on behalf of Vortex Industries, Inc., or to modify the terms or limitations of this warranty in any way.
- **H.** If further information is desired, contact your selling dealer or e-mail service@vortexindustriesinc.com. \*Each Warranty Term begins on the date of sale to the original purchaser.

Please register your unit at www.vortexxpressurewashers.com within 30 days of purchase. Note you may also detach the back page of this manual and follow the mailing instructions.



The unit's serial number can be found on the sticker attached to your unit.

Sample Serial Number: VX60505H-01056

## **Product Registration Form**

If mailing, send completed form to:

Vortexx Industries Inc., 739 S. Mill St. Plymouth MI 48170

Unit can also be registered online at www.vortexxpressurewashers.com/registration

First Name		_Initial Last Name	
Street Address		City	_ State
Zip code	E-mail	Phone	
()			
Purchased From		Date of Purchase	
Model Name (Circle model that c	applies to	your purchase) Serial no	

2500LD Homeowner (VX10101D)

2700LD Homeowner + (VX10202D)

2750HD Prosumer (VX20303D)

3000HD Professional 3000 (VX20305D)

4000HD Professional 4000 (VX30405D)

4000XG Pro + Gear Drive (VX30406G)

1900E Professional Electric -630 (VX50202E)

4000HOT Professional 4000 HOT (VX70606H)

