

Power Pro™

6L and 3L

Professional Ultrasonic Cleaners



Instructions for Power Pro 6L and 3L Ultrasonic Cleaners

Thank you for purchasing a Power Pro Ultrasonic Cleaner. Please read these instructions before use to fully understand the correct operating procedures and cautions. Do not disassemble or modify this product. Operate this Ultrasonic Cleaner on a flat, level surface.

The Basic Principle of Ultrasonic Cleaning

The cleaner uses ultrasonic energy in the form of sound waves to create millions of microscopic bubbles in the solution. These bubbles work their way into the smallest cavities and openings, loosening dirt on all surfaces that the solution touches. This action is called cavitation, occurs thousands of times per second to scrub contamination gently yet thoroughly from the item being cleaned.

Cautions Before Use

1. Be sure that the power supply is the correct rating before connecting to the machine.
2. Never run the machine without solution in the tank.
3. Be sure that the power outlet in use is properly grounded.
4. DO NOT use any flammable liquids such as gasoline, alcohol, kerosene, etc., in ultrasonic cleaners.
5. Do NOT use any strong acid or alkali solutions.
6. DO NOT place loaded cartridges in the unit.
7. Always unplug the machine when not in use.
8. Never exceed the maximum tank capacity. The top of the basket can be considered maximum. Keep in mind that items placed in the tank will displace solution.
9. Always use the unit on a dry level surface and avoid blocking air vents.
10. Always use the basket to hold parts. DO NOT let parts contact the tank.
11. DO NOT run the unit for extended times. If using the 30-minute cycle time, do not run more than two cycles without allowing unit to cool down for 30 minutes.
12. DO NOT use the heater with an empty tank! This can burn out the heaters.
13. Turn the heater knob to zero before draining the solution and whenever done using the unit. Failure to turn off the heater could damage them and the machine.



Operation

1. Remove the basket and place parts to be cleaned into the basket. Place the basket and parts into the tank. Make sure the drain valve is closed. When the handle is perpendicular to the drain, the valve is closed. When it is in line with the drain, the valve is open.
2. Add water to cover the items being cleaned. The water should fill at least 1/3 of the depth of the tank at minimum and not over the top of the basket for maximum.
3. Add the proper cleaning solution for the item being cleaned to the water. We recommend Lyman or Raytech Cleaning solutions. Follow the directions on the solution container for the proper amount to add. NEVER use flammable liquids!
4. Plug the power cord into the receptacle on the back of the unit.
5. Plug the power cord into the properly rated, grounded outlet, then turn on the power switch on the back of the unit.
6. If a heated solution is desired, turn the temperature knob to the desired temperature. Best cleaning is usually accomplished at approximately 140 to 150° F. It may take 20 to 30 minutes to heat the solution. Once the solution reaches the selected temperature, the heater will automatically cycle on and off to maintain the set temperature.
7. Select the cleaning time. You can select between 5-minute, 10-minute and 30-minute cleaning cycles by pressing the corresponding button. The default time setting is 5 minutes. The time selection will be indicated by the red light above the button.
8. Install the cover and press the On/Off button to start the ultrasonic action.

- When the cleaning cycle is complete, turn the heater knob to zero (if heat was used) and turn off the power with the power switch on the back of the unit. **Warning:** turn off the power and heater before draining the tank otherwise the heaters could burn out! You could also burn yourself if the interior of the tank is touched!
- Remove the cover and lift the basket out of the tank.
- Install the drain hose onto the drain and direct it to a bucket or sink. Turn the drain handle so it is in line with the drain to open it.
- When the solution is drained, clean and wipe the tank dry. Close the drain valve.



Includes Specially Designed Hangers

Hangers are supplied (2 with the 3L, 4 with the 6L) which can be used to support longer items such as suppressors, barrels, or bolt carriers. The hangers can be hooked on to the sides of the basket to suspend items and to allow smaller parts to be positioned below them. Note: suppressors are made in numerous ways and with numerous materials. We recommend checking with the manufacturer to confirm that ultrasonic cleaning is acceptable with their particular design.

Cleaning Solutions

It is important to use the proper cleaning solutions for the material being cleaned. Lyman and Raytech (Lyman's metal finishing division) each offer several different ultrasonic cleaning solutions for your specific needs and applications. Always follow the directions on the label of the cleaning solution for the best results.

Lyman TurboSonic™ Cartridge Case Cleaning Solution

Scientifically formatted to clean brass cases, this solution will remove tarnish, oxidation, and carbon buildup better than competitive formulas. Designed for use in Lyman and other ultrasonic cleaners, it will clean brass cases inside and out, including primer pockets.

- Can be used to clean brass, copper, bronze, and stainless steel.
- May be used for removal of light rust on steel parts, but parts should be oiled after cleaning.

- Not recommended for use on aluminum or steel (other than for removal of light rust).
- Warning! TurboSonic™ Cartridge Case Cleaning Solution will remove bluing from steel gun parts. Only use TurboSonic™ Steel & Gun Parts Cleaning Solution for gun parts.
- Parts to be cleaned should not have excessive oil – remove bulk oil before cleaning in this solution.
- Not recommended for cleaning silver, sterling silver, or silver plating.
- Will effectively clean gold jewelry but is NOT recommended for gemstones. Immersion of gemstones could cause damage by the solution or the sonic energy, or both.
- For optimum performance when cleaning cartridge cases, avoid more than 2 layers – keep as much space between cases as possible.
- When cleaning cartridge cases, remove the basket from the unit and load the cases into it. Then lower the basket into the solution and shake it slightly to help dislodge and bubbles that might be trapped inside the cases.
- Discard the solution when it becomes highly discolored or murky. Rinse the unit with clean water before recharging.
- Do not mix with other cleaners or chemicals.

Lyman TurboSonic™ Steel & Gun Parts Cleaning Solution

Scientifically formulated to clean steel and stainless-steel parts, remove oil, dirt, carbon build-up, and powder residue. Ideal for deep cleaning gun parts and other steel items including reloading dies and mould blocks. Designed for use in Lyman TurboSonic™ cleaners and other ultrasonic cleaners.

- Can be used to clean steel, stainless-steel, and aluminum gun parts. Should NOT be used on bare aluminum and non-ferrous metals.
- When cleaning anodized aluminum, keep the use of the sonics to the minimum time needed. The parts can be allowed to soak (no sonics) to help in decreasing the time required for sonic cleaning. Aluminum can be damaged by excessive sonic energy.
- Designed to clean oil/grease and carbon buildup.
- Not recommended for cleaning silver, sterling silver, or plated silver.
- Not recommended for cleaning jewelry, particularly gemstones.
- While the solution will provide some limited corrosion protection, we recommend oiling the parts after cleaning. Lyman's TurboSonic™ Barrel & Gun Parts Lube is designed to ultrasonically lubricate parts. It will displace moisture and penetrate all hard-to-reach areas and is recommended after cleaning.
- Discard the solution when it becomes highly discolored or murky. Rinse

the unit with clean water before recharging.

- Do not mix with other cleaners or chemicals.

Raytech CR Concentrated Corrosion Removing Solution

- Can be used to restore surface appearance on metals.
- Removes tarnish, oxidation, rust, and scale build up.
- Parts to be cleaned should not have excessive oil – remove bulk oil before cleaning in this solution.
- For the best cleaning action, avoid multiple layers – keep as much space between parts as possible.
- For best results when cleaning parts with cavities, remove the basket from the unit and load the parts into the basket. Lower the basket into the solution and shake the basket slightly to help dislodge any bubbles that might be present inside the parts.
- Not recommended for cleaning silver, sterling silver, or silver plating.
- Will effectively clean gold jewelry but avoid immersion of gemstones in the solution as they may be damaged by the solution or sonic energy or both.
- When starting with a new batch of parts and new cleaning solution, preheat the solution and run the ultrasonic for 5 minutes to “degas” the solution. Gas trapped in the solution can diminish ultrasonic energy. Once degassed, it is not necessary to degas again until the solution is changed.
- Discard the solution when it becomes highly discolored or murky. Rinse the unit with clean water before recharging.
- Do not mix with other cleaners or chemicals.

Caution – removes bluing from steel.

Coated surfaces can be damaged by excessive ultrasonic action.

Ultrasonic Applications

Your Power Pro Ultrasonic Cleaner offers a fast and effective approach to cleaning small intricate parts. Ultrasonic cleaning is widely used in the industrial, medical, jewelry, automotive, and firearm industries. Ultrasonic cleaners may also be used for a variety of general-purpose applications for the hobbyist and professional alike. It is extremely important when using ultrasonics for uses other than steel parts that you use the correct cleaning solution, or you risk damage to the item that you are cleaning. For items questionable about their suitability for ultrasonic cleaning, we suggest contacting the manufacturer of the item to determine if ultrasonic cleaning is appropriate.

Specifications - Power Pro 6L

Description	Ultrasonic Cleaner
Model	Power Pro 6L
Item No.	Lyman 7631771/Raytech 7631771R
Tank Size	11.8 L x 5.9 W x 5.9 H in 30.0 L x 15 W x 15 H cm
Longest item that can fit in basket	11 in / 27.9 cm
Rating Voltage & Frequency	AC 100 - 120V / 60Hz
Power Consumption Ultrasonics	AC 100 - 120V, 180 Watts
Power Consumption Heater	AC 100 - 120V, 200 Watts
Cycle Time Selection	5 minute, 10 minute, 30 minute
Temperature Settings	Room Temp. to approx. 175° F
Drainage	Ball valve and drain hose
Ultrasonic Frequency	40,000 Hz
Tank Material	Stainless Steel SUS304
Housing Material	Stainless Steel SUS201
Net Weight	12.2 lb / 5.5 kg
Gross Weight	13.5 lb / 6.1 kg
Unit Size	12.8 x 7 x 11 in / 32.5 x 18 x 28 cm
Box Size	16 x 10 x 14 in / 40.6 x 25.4 x 35.6 cm

Specifications - Power Pro 3L

Description	Ultrasonic Cleaner
Model	Power Pro 3L
Item No.	Lyman 7631770/Raytech 7631770R
Tank Size	9.4 L x 5.3 W x 3.9 H in 24 L x 13.5 W x 10 H cm
Longest item that can fit in basket	8 in / 20.3 cm
Rating Voltage & Frequency	AC 100 - 120V / 60Hz
Power Consumption Ultrasonics	AC 100 - 120V, 120 Watts
Power Consumption Heater	AC 100 - 120V, 200 Watts
Cycle Time Selection	5 minute, 10 minute, 30 minute
Temperature Settings	Room Temp. to approx. 175° F
Drainage	Ball valve and drain hose
Ultrasonic Frequency	40,000 Hz
Tank Material	Stainless Steel SUS304
Housing Material	Stainless Steel SUS201
Net Weight	8.9 lb / 4 kg
Gross Weight	10 lb / 4.5 kg
Unit Size	10.4 x 6.5 x 8.7 in / 26.5 x 16.5 x 22 cm
Box Size	13.5 x 9.5 x 12 in / 34.3 x 24.1 x 30.5 cm

Warranty/Repair Policy

Your Lyman/Raytech Product has been produced under rigid standards of manufacture and inspection. However, if your Lyman/Raytech product is found to be defective in material or workmanship within one year of delivery to the first retail purchaser, we will repair or replace it without charge.

If you require service under this warranty, please contact us for a return authorization. Return the complete item along with a letter of explanation, including your complete name and address, freight prepaid to the factory at the address listed below. Be sure to write the RMA number on the outside of the package. Your Lyman/Raytech product will be repaired or replaced and returned to you within 30 days of our receipt. In making any return of a product to the factory, please be sure it is packaged with proper care to protect it from damage in transit.

Our warranty cannot apply to a defect which results from misuse, abuse, neglect, accident, or improper care, or if the product has been altered or repaired by anyone other than factory personnel.

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