

SPECIFICATIONS

Description	Digital Ultrasonic Cleaner
Item No.	(115V) 23096R
Rating voltage	AC 220~240V ~ 50-60 Hz
& Frequency	AC 100~120V ~ 50-60 Hz
Ultrasonic Power	65 Watts
Heating Power	100 Watts
Ultrasonic Frequency	42,000 Hz
Material of tank	Stainless Steel SUS304
Plastic Housing	ABS 757
Tank Size	9.84 x 5.90 x 3.15 in. 250 x 150 x 80 mm
Tank Capacity	2500ml (MAX-) 2100ml 4.44pt (5.29 pt) (MIN-) 600ml 1.27pt
5 Recycle digital timer	180s —280s—380s—480s—90s
Net Weight	5lbs, 8.18oz. (2.5 Kg)
Gross Weight	6lbs, 9.82oz. (3.0 Kg)

Watch our Instructional Ultrasonic Cleaning Videos!
Visit our website at www.lymanproducts.com

Lyman®

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Turbo® Sonic 2500 Ultrasonic Cleaner



Operating Instructions

READ BEFORE OPERATING

Ultrasonic cleaners are very easy to use. To get the best results from your new purchase we recommend that you read this user's guide before getting started. After reading instructions, if you do not fully understand the operation of machine you may contact Lyman customer service at 1-800-22LYMAN for further assistance, or watch our Ultrasonic Cleaning Instructional Videos on our website at www.lymanproducts.com

MAIN FEATURES

- This machine is the newest generation of ultrasonic cleaner, featuring 5 timed cleaning cycles with heater.
- With a larger fluid capacity approximately of 70 oz (2100 ml) and 165 watt power unit, cleaning power and capacity has been increased.
- 2.5 Liter Tank: greater holding capacity
- Engineered Plastic Basket: Improves the flow of ultrasonic waves and provides greater durability and will not scratch cases or parts.
- Powerful Transducer: more effective cleaning
- 5 Cleaning Cycles: for all your cleaning needs
- Circuit Protector: prevents damage
- Fan Cooled: prevents overheating
- Durable Plastic Housing: resists moisture and shock

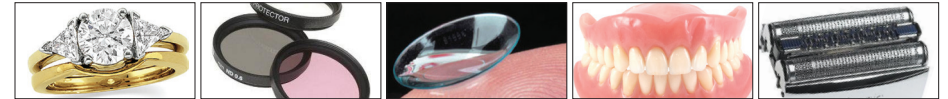
SAFETY INSTRUCTIONS

CAUTIONS!

- Do not use for loaded cartridges.
- Always unplug this unit when not in use.
- Always keep unit in a safe place to avoid having it fall into water or other liquids.
- Do not immerse in water or other liquids.
- Always unplug unit immediately if unit has fallen into water or other liquid.
- Always keep unit and power cord away from heated surfaces.
- Never use unit with damaged power cord.
- Always place unit on dry level surface for use.
- Do not disassemble unit.
- Always unplug unit before filling and never exceed the maximum fill mark.
- Do not fill tank with abrasive or corrosive materials, use only manufacturers recommended cleaning solutions.
- Follow all instructions in manual.
- Do not use if there is no water or cleaning solution in cleaning tank.
- Always use basket when cleaning. Never let items being cleaned make contact with tank.

ULTRASONIC APPLICATIONS

Your Lyman Turbo® Sonic Ultrasonic Cleaner offers a new and innovative approach to cleaning cases, gun parts and numerous other ferrous metal products. Ultrasonic cleaners may also be used for a variety of general purpose duties outside the reloading or firearms applications. These include jewelry, CD's, eyeglasses and more. It is extremely important when using the Turbo Sonic for uses other than cases or steel parts that you use the correct cleaning solution or you risk damage to the item you are cleaning. Lyman offers a special jewelry cleaning solution. Other recommended uses for your Turbo Sonic are listed below. For cleaning items other than brass cases or steel parts, we suggest contacting the manufacturer of the item to determine if ultrasonic cleaning is appropriate for that item.



Jewelry

Recommended for: Gold, silver, platinum, diamonds, sapphires.
Not recommended for: Porous stones such as pearls, opals, rubies, turquoise.
Do not wash oil treated stones in chemicals.
Suggested Directions: 3-5 minutes using Lyman Jewelry Cleaning Solution.
Caution: Silver tarnish must be removed using a silver tarnish remover. It cannot be removed by an ultrasonic using only tap water.

Eye Glasses/Camera Lenses

Recommended for: Eye glasses, sunglasses, camera lenses.
Caution: If cracks exist in coating or glasses, they may become more noticeable after ultrasonic cleaning. Screws may loosen during ultrasonic cleaning.
Suggested Directions: 2 minutes using tap water.

Contact Lenses

Recommended for: Hard contact lenses.
Not recommended for: Soft contact lenses.
Caution: Use saline water.

Watches

Recommended for: Waterproof watches may be submerged in water.
Caution: Use watch stand to keep watch body above water if not waterproof.
Suggested Directions: 3-8 minutes using Lyman Jewelry Cleaning Solution.

Dentures/Retainers/Mouth Guards

Caution: Use tap water for daily cleaning.
Suggested Directions: 5 minutes using tap water.

Shavers/Razors

Recommended for: Shaver/razor heads can be submerged in water for cleaning.
Caution: Do not submerge electronic parts or motors.
Suggested Directions: 3-8 minutes using tap water.

CD/DVDs

Caution: Use CD stand
Suggested Directions: 3-5 minutes using tap water.

may speed up the drying process by utilizing a hair dryer or compressed air. Caution do not use any heat source that will overheat the cases.

- **DO NOT OPERATE UNIT WITHOUT ANY FLUID IN CLEANING TANK!!!**
- The unit is equipped with overheating protection. If the heater is turned on without water in the the tank, the heater will shut off automatically after 120 seconds. The heater can then not be turned on again. Press the “**ON/OFF**” button and unplug the power cord for at least 15 minutes, make sure to fill the tank with water, and then connect the power cord to an outlet again and restart heating function.
- Pour water out following the solution manufacturer's disposal instructions and wipe tank clean.

USER MAINTENANCE

- Unplug and empty unit after using. Do not store water or cleaning solutions in cleaning tank for any extended periods of time.
- Keep unit in cool dry location.

WARRANTY/REPAIR POLICY

Your Lyman Product has been produced under rigid standards of manufacture and inspection. However, if your Lyman 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 Lyman customer support at 1-800-225-9626 or via email at customerservice@lymanproducts.com to begin the warranty claim process.

We are sorry, but our warranty cannot apply to a defect which results from misuse, abuse, neglect, accident or improper care, or if your Lyman product has been altered or repaired by anyone other than factory personnel.

If the item is out of warranty and needs repair, please contact Lyman customer support at 1-800-225-9626 or via email at customerservice@lymanproducts.com. Appropriate charge will apply for parts and labor. Estimates are available only after the item has been thoroughly inspected by our repair personnel.

Lyman offers two different cleaning solutions:

TURBO® SONIC CONCENTRATED CARTRIDGE CASE CLEANING SOLUTION

- Can be used to clean brass, copper, bronze and stainless steel.
- Not recommended for use on aluminum or steel.
- Parts to be cleaned should not have excessive oil – remove bulk oil before cleaning in this solution.
- The Lyman Turbo Sonic 2500 will hold up to 250 308 Win. cases or 900 9mm cases. However, for best cleaning action, avoid multiple layers – keep as much space between cartridges as possible.
- For best results when cleaning cartridge cases, remove the basket from the unit and load the shells 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 cases.
- 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 cases and new cleaning solution, pre-heat the solution and run the ultrasonics for 5 minutes to “degas” the solution. Dissolved gas in the solution can diminish the 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.



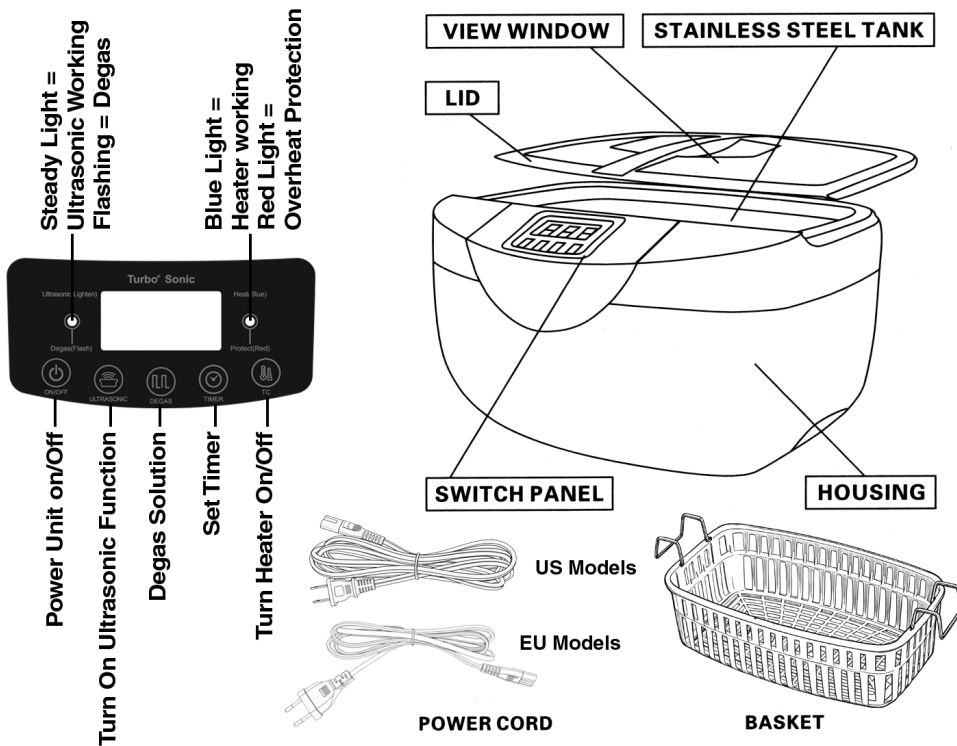
TURBO® SONIC CONCENTRATED STEEL & GUN PARTS CLEANING SOLUTION

- Can be used to clean steel, stainless steel and anodized aluminum gun parts. Do not use on non-anodized (bare) aluminum or other non-ferrous metals.
- When cleaning aluminum, keep the use of the sonics to the minimum time needed. The part(s) 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 silver plating.
- Avoid cleaning jewelry, particularly gemstones in this cleaning solution.
- Will provide limited corrosion protection – after cleaning, do not rinse the part(s). The part(s) should be properly drained and allowed to air dry. Not meant as a long term inhibitor – part(s) should be oiled for long term corrosion protection.
- 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. Dissolved gas in the solution can diminish the ultrasonic energy. Once degassed, it is not necessary to degas again until the solution is changed.

FEATURES AND ACCESSORIES:



OPERATING INSTRUCTIONS

- Open lid by lifting straight up.
- Follow instructions on cleaning solutions for proper mixing ratios.

- Add water or water and cleaning solution but do not exceed “MAX” fill line, taking into account that when items and basket are placed in tank fluid level will rise.
 - Fluid should cover surface of items being cleaned.
 - Do not overlap items that may scratch.
 - Never let items come into direct contact with tank.
 - Plug the power cord into side of unit and then plug unit into wall. Press the “**ON/OFF**” button to turn the unit on.
 - When unit is first powered up the digital display will show the water temperature.
 - Press “**TIMER**” to set time, digital display will show “90” press it again to change it to 180 seconds (3 minutes). Pressing the “**TIMER**” button will display the next higher cleaning cycle, all the way up to 480 seconds (8 minutes). 90S - 180S - 280S - 380S - 480S.
 - Degas: After timer setting, press the “**DEGAS**” button to start degassing function. The LED indicator on the left side of the display will flash green while degassing.
 - “Heater” function: Pressing the “**TC**” button on the unit turns on built in heating unit. The blue LED will illuminate on the right side of the display. When the water temperature reaches 60 Celsius/ 140 Fahrenheit, the LED will turn red indicating overheating protection, and the heater will turn off automatically. When the water temperature drops below 55 Celsius/ 131 Fahrenheit, the unit will resume heating automatically. To ensure safety, the heater will turn off automatically after 45 minutes, and the indicator light will go out.
- Hint: By using warm water the heating time will be decreased and your cleaning cycle can start sooner.
- After you have Set the Timer, press the “**ULTRASONIC**” button to start your cleaning. Unit will not start until the timer has been set. You will hear a “BUZZ” sound from the machine and the green LED will illuminate on the left side of the display. This means it is working. The timer will count backwards. showing you how much cleaning time is left for the chosen cycle.
 - Pressing the “**ULTRASONIC**” button again will end the cleaning cycle and reset the timer.
 - When cleaning cycle is finished, press “**ON/OFF**” button, and unplug the unit from the wall to power off, and open lid.
 - Remove basket carefully remembering that if you used the “**TC**” function water will be HOT. Tip the basket side to side over the tank as it is removed from the solution. This will help to pour out any trapped water or solution in the cases. Place basket on some sort of moisture absorbing material (paper towel, shop rag).
 - Parts should be rinsed in clean water before continuing. A bucket with clean water may be used to dunk basket and rinse parts. Shake basket over bucket to help in removing excess water and cleaning solution. You