

Lyman®

**Turbo® Sonic 700
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 users guide before getting started. After reading instructions, if you do not fully understand the operation of this machine you may contact Lyman customer service at 1-800-22LYMAN for further assistance.

MAIN FEATURES

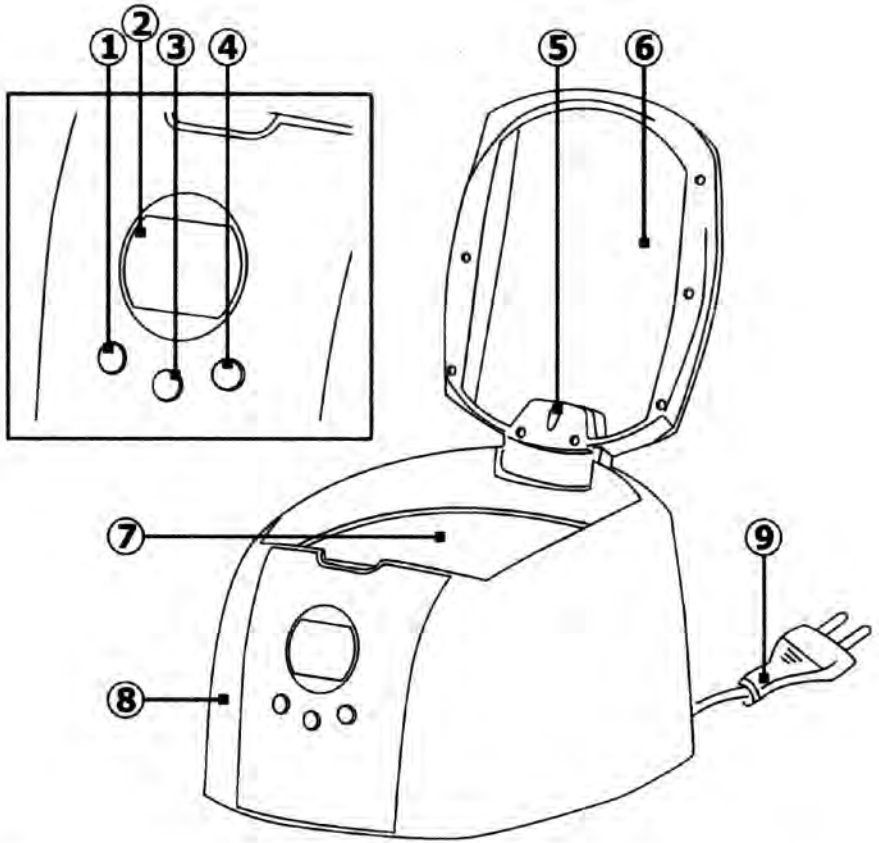
- Uses advanced separately-excited oscillation circuitry
- 15 % better cleaning efficiency over previous technologies
- 10% longer product life
- Digital controls
- 2-color LED display
- 5 timer settings

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, do not spray water or other liquids on unit.
- 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, avoid blocking air vents.
- Do not disassemble unit.
- Always unplug unit before filling tank 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 this manual.
- Do not run unit for extended time: After 3 cleaning cycles let unit stand for ten minutes in order to prolong the life of the unit.
- Never let items being cleaned come in contact with the tank.
- Avoid areas that may have electromagnetic interference.

FEATURES AND ACCESSORIES:



① ON Button

② Time Display

③ SET Button

④ OFF Button

⑤ Light

⑥ View Window

⑦ Stainless Steel Tank

⑧ Housing

⑨ Plug & Cord

Optional Accessories



Disk Holder



Watch Stand



Basket

CONTROL PANEL AND OPERATION

“Set” Button

This button is used to select your cleaning cycle length. Each time the button is pressed the LED indicator will display the cleaning cycle selected. Each press of the “Set” button will scroll through the available cleaning cycles on the LED display, ranging from 90 seconds to 600 seconds.

“On” Button

Once unit is plugged in and powered on, and you have selected your cleaning cycle. Press the “On” button to start cleaning. The “On” button does not control power; the unit must be unplugged from the outlet to turn off.

“Off” Button

The “Off” button is used to pause or end your cleaning cycle. The remaining time in the cycle will stay displayed until it is resumed, reset or the unit is turned off. The “Off” button does not control power; the unit must be unplugged from the outlet to turn off.

USER MAINTENANCE

- Unplug and empty unit after each use.
- Do not store water or cleaning solutions in cleaning tank for any long periods of time.
- Keep unit in cool, dry, ventilated location.

OPERATING INSTRUCTIONS

For step by step instructions please see our instructional videos on the Lyman Products website at : www.lymanproducts.com

1. Open lid and remove basket. Fill tank with water or recommended cleaning solution mixture. Items to be cleaned should be covered by the liquid being used. Do not fill above max line on tank, taking in to account that the liquid will rise when the basket and parts to be cleaned are placed in the tank.

If unit is turned on without water, ultrasonic energy will not be absorbed. If turned on for more than 15 seconds without water, it may damage or severely reduce the life of the unit.

2. Plug power cord into outlet. Unit will power on and the LED will display 180, under that a small lighted square will illuminate displaying 3 Min. Place basket with the items to be cleaned into tank and close lid. At this point you may press the “On” button to start the cleaning cycle or press the “Set” button to choose another cleaning cycle length. Once

the unit has started the cleaning cycle a blue LED light will illuminate at the rear of the tank and you will hear a buzzing noise. This indicates the machine is operating correctly. The unit will count down the remaining time, when the counter reaches 000, the cleaning is complete.

Prolonged cleaning time may result in:

- a. Loosening of screws (if used).
 - b. Increasing pre-existing cracks.
 - c. Peeling of coating which is already separated.
3. To stop cleaning at any time, press the “Off” button. To resume the cleaning cycle press the “On” button.
 4. When cleaning is completed, unplug power cord from the outlet. Open lid remove basket. The cleaning solution should be changed if it has become cloudy or dark from cleaning.

CLEANING SOLUTIONS

It is important to use the proper cleaning solutions for the material being cleaned. Lyman offers several different ultra-sonic cleaning solutions for your specific cleaning needs. Always follow the directions on the label of the cleaning solution for best results.

TURBO® SONIC CONCENTRATED CARTRIDGE CASE CLEANING SOLUTION

Scientifically formulated to clean brass cases, will remove tarnish, oxidation, and carbon buildup better than competitive formulas. Designed for use in Lyman Turbo Sonic cleaners and other ultrasonic cleaners. Cleans brass 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 from steel parts, but parts must be inhibited after cleaning
- Not recommended for use on aluminum or steel (other than for removal of light rust)
- 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 avoid immersion of gemstones in the solution as they may be damaged by the solution or sonic energy or both.
- For optimum performance when cleaning cartridge cases, avoid more than 2 layers - keep as much space between cartridges as possible.
- 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.
- After making a new cleaning solution, preheat your cleaning solution mix and run the unit for a minimum of 3 minutes to de-gas the mix. Dissolved gas in the solution can diminish the ultrasonic energy. Once de-gassed, it is not necessary to de-gas 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

Scientifically formulated solution to clean steel and stainless steel parts, removes 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 Turbo Sonic 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 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.

- After making a new cleaning solution, preheat your cleaning solution mix and run the unit for a minimum of 3 minutes to de-gas the mix. Dissolved gas in the solution can diminish the ultrasonic energy. Once de-gassed, it is not necessary to de-gas 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.

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 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. Your Lyman product will be repaired or replaced and returned to you within 30 days of our receipt. In making any return of a Lyman product to the factory, please be sure it is packaged with proper care to protect it from damage in transit.

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 is in need of repairs, the Lyman product should also be returned to the same address listed below. Appropriate charges will apply for parts and labor. Estimates are available only when the item has been thoroughly inspected by our repair personnel.

Lyman Products Corporation
475 Smith Street, Middletown, CT 06457
Attn: Service Department

SPECIFICATIONS

Description	Digital Ultrasonic Cleaner
Model	TS-700
Item No.	(115V) 7631729 (230V) 7631730
Tank Size	5.88 x 5 x 1.75 in. 14.9 x 12.7 x 4.4 cm
Rating Voltage & Frequency	AC 220~240V ~ 50 Hz AC 100~120V ~ 60 Hz
Consumption Power	AC 220~240V ~ 50W AC 100~120V ~ 38W
Digital Timer	2-Color LED Display with 5 Timer Settings 180s - 300s - 480s - 90s - 600s
Ultrasonic Frequency	46,000 Hz
Tank Material	Stainless Steel SUS304
Net Weight	2.2 lbs / 1.0 kg
Gross Weight	3.1 lbs / 1.4 kg
Unit Size	8.98 x 6.77 x 5.63 in. / 228 x 172 x 143 mm

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475 Smith Street
Middletown, CT 06457

Customer Service: 1-800-22 LYMAN
or 1-860-632-2020
www.lymanproducts.com