

RCBS®

ULTRASONIC CASE CLEANER-2



PRODUCT INSTRUCTIONS

87056

 **WARNING!**

Before using the RCBS Ultrasonic Case Cleaner-2, read these instructions carefully to fully learn how to safely operate the related equipment. Failure to properly operate the related equipment can result in severe personal injury and/or equipment damage.

If you have any questions while assembling or operating this tool,
Call us at 1-800-379-1732 (U.S. or Canada)

Monday – Friday 5:00 a.m. – 5:00 p.m. Pacific Time (hours may vary)

Or email us at rcbs.tech@vistaoutdoor.com

This instruction manual contains specific safety and operating information. It should be considered a permanent part of your equipment and remain with the equipment at all times for easy reference.





SAFETY

Reloading is an enjoyable and rewarding hobby that can be conducted safely. But, as with any hobby, carelessness or negligence can make reloading hazardous. This product has been designed from the beginning with the user's safety in mind. When reloading, safety rules must be followed. By observing these rules, the chance of a hazardous occurrence causing personal injury or property damage is minimized.

KEEP AWAY FROM CHILDREN!

This device is not intended for use by individuals with restricted physical, sensory or mental capacities or those with a lack of experience and/or knowledge, including children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device. Please store the RCBS Ultrasonic Case Cleaner-2 where it is out of the reach of children. Keep all packing material out of reach of children.

To prevent life-threatening electric shock, please observe the following:

-  Danger of electric shock! Do not use while bathing. Never immerse the device or power cord in water or other liquid.
-  Danger of electric shock! Never touch the power plug with wet hands, especially when inserting or removing the plug.
-  Danger of electric shock! If the unit has fallen in water during operation, do not touch the unit. Remove the power plug from the socket first.
-  Danger of electric shock! Do not spray water or liquid over the device.
 - When removing the cord from the socket, grab the power plug, not the cord.
 - Protect the power cord from damage.
 - If there is damage to the power plug, cord, housing, or other parts of the device, do not use.
 - Disassembly of this device should only be performed by qualified professionals.
 - When not in use always remove the power cord from the socket.
 - Use of a GFCI with a rated trip current of no more than 30mA should be used to provide protection against electric shock. The installation of a GFCI circuit should only be carried out by a qualified electrician.

GENERAL

- Use all equipment as the manufacturer recommends. Study the instructions carefully and become thoroughly familiar with the operation of the product. If you do not have written instructions, request a copy from the equipment manufacturer.
- Do not take short cuts. Attempting to bypass established procedures is an invitation to an accident.
- Observe “good housekeeping” in the reloading area. Keep tools and components neat, clean and orderly. Promptly and completely clean up primer and powder spills.
- Reload only when you can give your undivided attention. Do not reload when fatigued or ill, or under the influence of medications or alcohol.
- Develop a reloading routine to avoid mistakes which may prove hazardous. Do not rush - load at a leisurely pace.
- Always wear adequate eye protection to protect your eyes from flying particles. You assume unnecessary risk when reloading without wearing safety glasses.

LOADING DATA

- Use only laboratory tested reloading data. We highly recommend the current SPEER Reloading Manual.



OBSERVE ALL WARNINGS ABOUT THE USE OF MAXIMUM LISTED LOADS.

RECORD KEEPING

- Keep complete records of reloads. Apply a descriptive label to each box showing the date produced, and the primer, powder and bullet used. Labels for this purpose are packed with SPEER bullets.
- Never attempt to guess at the identity of your ammunition.

Because RCBS has no control over the choice of components, the manner in which they are assembled, the use of this product, or the firearms in which the resulting ammunition may be used, we assume no responsibility, expressed or implied, for the use of ammunition reloaded with this product.

ULTRASONIC CLEANING

The RCBS Ultrasonic Case Cleaner-2 is designed to clean metallic surfaces. Ultrasonic cleaners work by creating millions of tiny air bubbles inside the liquid by high frequency vibration. The air bubbles burst inside the liquid on the surface of the submerged items and shake off the debris to achieve the cleaning effect. When used with the RCBS Ultrasonic Case Cleaning Solution, your cases will be clean and free of carbon fouling, lubricants, and debris on the exterior and interior, of your cartridge cases. Purified or distilled water has the same cleaning effect as regular tap water for ultrasonic cleaning. Therefore using tap water is sufficient. However, your tap water may contain minerals and solids, which may cause spots on surfaces. When cleaning silver or copper items where oxidation and carbon fouling has darkened the items, special cleaning solutions such as RCBS Ultrasonic Case Cleaning Solution needs to be added to the water to remove the oxidation. The RCBS Ultrasonic Cleaner-2 comes equipped with a special degassing function. When cleaning solutions are added to the water in the tank, droplets of solution will form which take time to dissolve in the water. The solution may also form many small air bubbles on the tank walls. The droplets and bubbles act as a buffer or insulator, which may reduce the cleaning effectiveness. The degassing function will aid in dissipating the bubbles and droplets, which will improve the cleaning efficiency. The degas function will operate for 2 minutes, which is generally enough time to dissipate the droplets and bubbles.

To order the cleaning solution or find out more information, contact RCBS or visit our website (www.rcbs.com).

MAIN FEATURES

- Tank size: 12.7" x 8.1" x 3.9" / 32.3 x 20.5 x 9.9 cm
- Tank capacity: 1.6 gal./ 6.0 L
- Longest item that can fit inside the tank is 13.4"/34.0 cm.
- 3-color LED display.
- 1 to 30-minute full range timer
- 5 pre-set temperature settings. Temperature display in °C or °F. Ceramic heater and overheat protector
- Solution usage timer (Solution time remains in memory even when electricity is switched off).
- 2 Industrial grade ultrasonic transducers, 2 ceramic heaters.
- Industrial grade IC.
- Moisture-proofed PCB with cooling fan.
- Drainage valve.

SAFETY INSTRUCTIONS

- Never attempt to clean loaded cartridges or primed cases.
- Never turn heater on when there is no fluid in tank.
- Use drain valve to empty tank.
- Never submerge the Ultrasonic Cleaner in water or any other liquid in an attempt to clean the unit.
- Do not spray Ultrasonic Cleaner with water or other fluids.
- Never use unit if power cord becomes damaged.
- Never attempt to disassemble Ultrasonic Cleaner.
- Always use on a flat level surface.
- Do not overfill the unit by exceeding the "Max Fill" mark located inside the tank.
- Always disconnect power cord before filling and when draining tank.
- Only use water or recommended cleaning solutions, such as the RCBS Case Cleaning Solution.
- If Ultrasonic Cleaner has been in operation for 45 min. allow 10 min. time before next use, to prolong life of unit.
- Always use the Basket when cleaning articles to protect stainless steel tank.
- Allow for adequate room around Ultrasonic Cleaner to allow for cooling. Do not store items next to unit while in use. Keep side cooling fans and vents clear of any obstructions (rags, bags, boxes, etc.).
- Always unplug unit when not in use.



WARNING Care should be used when operating electrical appliances in wet areas or around water. Always unplug unit when filling or draining tank. Operating unit on a GFCI outlet is highly recommended.

USES

- Cartridge Cases – Using specialized cleaning solutions; such as the RCBS Case Cleaning Solution.
- Gun Parts – Using specialized cleaning solutions; such as the RCBS Weapons Cleaning Solution.
- Jewelry – Using water only.
- Eye Glass frames – Using water only.
- Tools – Using specialized cleaning solutions

Many more items can be cleaned using the RCBS Ultrasonic Case Cleaner-2. If using other than water, ensure you follow the manufacturer's recommended usage for various material types.

UNPACKING

Refer to the list below to identify parts as you carefully unpack your new Ultrasonic Case Cleaner-2:


















ITEM NO.	DESCRIPTION	PART NUMBER
1	Ultrasonic Cleaner-2	
2	Lid	7187095
3	Basket Frame	
4	Basket	
5	Stainless Steel Tub - small	
6	Power Cord	7187098
7	Drain Hose	7187097



















DISPLAY and KEYPAD



DISPLAY

- 1. Digital Timer Display** - Displays the set run time.
- 2. Water Temperature Indicator**  - Solid green light  indicates that the water temperature is 0-30% of the set temperature. Solid orange light  indicates that the water temperature is 30-60% of the set temperature. Solid red light  indicates that the water temperature is 60-90% of the set temperature. Flashing red light  indicates that the water temperature is close to the set temperature. All solid lights indicate that the water temperature is at the set temperature (90-100%).
- 3. Set Temperature Display** - Display will show one of the 5 pre-set temperatures: 40°C/104°F, 45°C/113°F, 50°C/122°F, 55°C/131°F or 60°C/140°F.
- 4. Set Temperature Units Indicator** - Indicates if temperature is either °C or °F.
- 5. Solution Timer** - Counts down to show remaining solution usage (Hour:Min).
- 6. Solution Set Indicator ()** - When  is flashing solution needs to be changed and timer needs to be reset. When  is displayed, solution timer is set and timer will begin counting down when Ultrasonic Cleaner is in operation.
- 7. Degas Status ()** - When  is displayed, unit is in degassing mode.
- 8. Heater Status ()** - When  is illuminated heater is turned on. If  is not illuminated, the heater is turned off.
- 9. Normal Cleaning Status ()** - When  is illuminated, normal cleaning is underway.
- 10. Working Status - Indicator Light**
Green - Ready: Green light indicates normal working status, ready to use.
Red - Overheat (R): Red light indicates overheat protection. 20 minutes or more time required for the light to change from red to green. When light is green normal operation may resume.

KEYPAD

- 11.  Heater Button — Heater On/Off Button.** Pressing Heater button  will flash indicating heater is turned on. To cancel heating, press Heater button again and  will dim, indicating heater has been turned off. When water reaches the set temperature the heater will turn off automatically.
- 12.  Function Button - Functions (Degas/Normal).** Depressing function button  will illuminate, indicating degassing function is desired. Depressing function button again  will illuminate indicating normal ultrasonic cleaning. Pressing On/Off button will begin cleaning. If unit is in degassing mode,  will flash for 2 minutes while unit is degassing. After 2 minutes has elapsed,  will illuminate, indicating normal ultrasonic cleaning has begun and degassing has stopped. If more degassing is required depress function button and  will illuminate indicating degassing is underway.
- 13.  On/Off Button - On/off switch.** When unit is plugged in and the unit is powered on the LED will display, the default 05:00 minutes run time and the unit is ready to operate in the normal ultrasonic cleaning mode for 5 minutes. Press the On/Off button once to initiate cleaning. The cleaning will stop when the timer counts down to 00:00. If the unit needs to be Stopped, before the timer runs out, press the On/Off button to turn off ultrasonic cleaning.
- 14.  Button - Decreasing Button.**
 - When Time is used, each pressing reduces the timer by 1 minute.
 - When Temp is used, each pressing reduces the set temperature down to the next level.
 - When  h/min is used, each pressing reduces the solution set time by 20 minutes.
- 15.  h/min - Solution Timer Set Button.** Each time  is depressed; the timer is increased by 20 min. The maximum time that can be set is 9 hr 60 min. When  flashes solution needs to be changed. Depressing  button will reset timer.
- 16.  Temp Button - Temperature set button.** 5 pre-set temperatures can be selected. Press Temp button to select the temperature in the following sequence: 40°C/104°F, 45°C/113°F, 50°C/122°F, 55°C/131°F or 60°C/140°F.
- 17.  Time Button - Timer quick set button.** Press Time button, LED will display run time. When time button is depressed, time will increase by 5 minutes up to a maximum run time of 30 minutes.

NOTE: There is a overheat safety feature built into the RCBS Ultrasonic Case Cleaner-2, which will automatically

shut off heater after it has been in operation for 90 minutes, regardless if the water temperature has reached the pre-set temperature. If using cold tap water and trying to heat up to 60°C/140°F, the overheat safety will automatically shut the heater off before desired temperature is reached. If this happens simply depress the heater button again to turn heater on. Using warmer water will aid in reducing the amount of time needed to bring water to desired temperature.

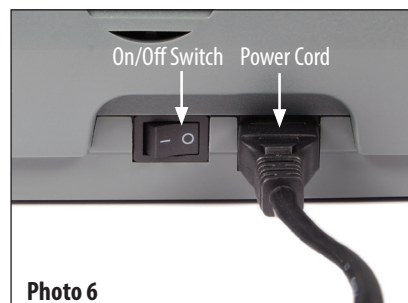
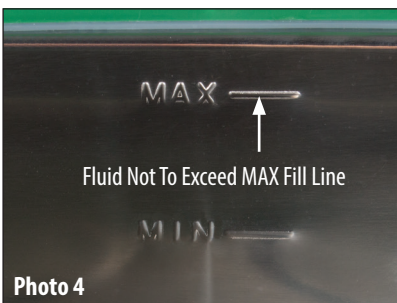
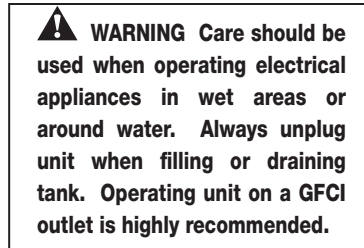
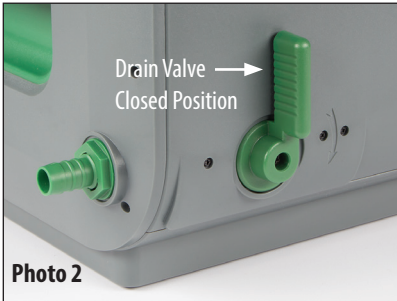
OPERATING INSTRUCTIONS

⚠ CAUTION Leave the Ultrasonic unit unplugged until you have read all the instructions and are ready to clean cases.

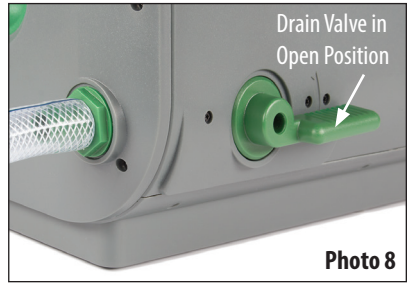
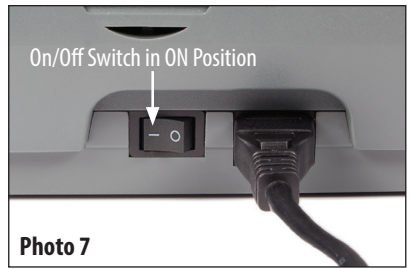
1. Ensure Drain Valve is in closed position by rotating valve in counter-clockwise direction as shown in *Photo 2*.
2. Place items in basket to level shown in *Photo 3*. Note: do not place items higher than the top of the basket to ensure water completely covers items in basket and is not above Max fluid fill line shown in *Photo 4*.
3. Pour water or cleaning solution into reservoir and ensure fluid level is not above level shown in *Photo 4*.

Note: With basket filled and placed in reservoir containing fluid, ensure fluid level does not exceed level shown in *Photo 5*.

⚠ CAUTION If the unit is turned on without water, and left on for over 45 seconds, it may severely reduce the life or damage the unit.



4. Insert Power Cord into socket located in the back of the RCBS Ultrasonic Cleaning Unit. See *Photo 6*
5. Plug opposite end of Power Cord into a grounded 120VAC wall socket.
6. Turn the On/Off switch to the On position, see *Photo 7*.
7. Set temperature by depressing Temp Button until desired temperature is displayed.
8. When fluid reaches desired temperature, slowly place loaded basket into Ultrasonic Cleaning Unit.
9. Place lid securely onto Ultrasonic Cleaning Unit.
10. Set time by depressing Time Button until desired time is displayed.
11. If Degassing is desired, depress Function Button until the ☰ symbol is displayed.
12. If Degassing is not desired, the ☉ symbol will be displayed, specifying normal cleaning operation.
13. Ensure the Green ready light is illuminated.
14. Depress the On/Off button to initiate cleaning. You will hear a buzzing sound indicating the Ultrasonic Cleaner has begun the cleaning cycle.



15. If the degassing function is being used, the unit will cycle on and off for 2 minutes until the degassing operation is completed, at which time the degassing symbol will no longer be illuminated in the display and normal cleaning operation will begin.
16. Once the Ultrasonic Cleaner has been in operation for the desired time the unit will automatically shut off.
17. When cleaning has been completed, turn the Power Switch, located in the back of the unit, see *Photo 6*.
18. Unplug Power Cord from wall socket.
19. Remove the lid and remove basket from Ultrasonic Cleaner.
20. Place basket inside another container and follow directions on the cleaning solution being used regarding rinse or no rinse. If rinsing is indicated, agitate items in rinse water and continue to rinse until all cleaning solution has been rinsed from items. Be sure to discard rinse water and cleaning solution according to cleaning solution manufacturers recommendations and local disposal regulations.
21. Place cleaned items onto a clean, dry surface. Spread items out and allow to dry. Drying time can be reduced by using a hair dryer, or placing in direct sunlight.
22. If more cleaning is necessary repeat steps 5 through 16 mentioned above. If cleaning solution is dark and murky it will need to be replaced. If cleaning is completed proceed to **step 23**.
23. Attach drain hose to drain or place a 6.0L/1.6 gal. reservoir below drain. Rotate Drain Valve clockwise 90 degrees to begin draining fluid from tank, see *Photo 8*.
24. When tank has been completely drained, rinse tank with clean water, rotate Drain Valve counter-clockwise 90 degrees to close drain, as shown in *Photo 2*.
25. Wipe tank and other areas of cleaner with a clean dry cloth to remove any excess moisture accumulated during use.
26. Store unit in dry, cool ventilated area.

INDIRECT CLEANING METHOD

NOTE: Indirect Cleaning is an enhanced cleaning method, which can be used for parts that are difficult to clean using the standard cleaning method.

1. Place items in Stainless Steel Tub - small.
2. Add cleaning solution to completely cover parts in Stainless Steel Tub - small.
3. Place Stainless Steel Tub - small into Ultrasonic Cleaner-2.
4. Add water to tank to a level between Min and Max, do not overfill to allow water to run into container.
5. Run Ultrasonic Cleaner-2 as specified above in OPERATING INSTRUCTIONS

HELPFUL HINTS

1. Deprieme all cartridge cases prior to cleaning to allow for adequate cleaning of the primer pockets.
2. If cleaning cartridge brass with the spent primers left in the brass, deprieme immediately in order to prevent corrosion caused from the wet spent primer. If this is not done corrosion may occur which could potentially damage or weaken the case.
3. During operation, cleaning effectiveness is enhanced by agitating the items to be cleaned. Midway through cleaning cycle, simply remove the lid and grasp basket by the handles, lift basket, and agitate items contained within basket. This orients items in a different position allowing the ultrasonic cleaning action to work on different areas of the items to be cleaned.
4. Parts to be cleaned should be free of excessive oil.
5. Using distilled or de-ionized water will reduce mineral deposit residue on items.
6. Cleaning effectiveness of the cleaning solution used will degrade after each use. If items are heavily soiled and many items are being cleaned with each cycle, the solution may require frequent changing. As the cleaning solution becomes darker, the cleaning effectiveness degrades.
7. Placing articles in basket and allowing space between articles greatly increases the cleaning effectiveness. The more items contained in the basket the longer cleaning time required to clean items.
8. Having a separate container, which will accommodate the basket, makes rinsing cases much more efficient.
9. Using a hair dryer or placing items in direct sunlight will speed drying time.

CAPACITIES

Small removable tub = 1.5-2.0 pounds of brass cases (rifle or pistol), 40 oz of chemical mix

Main tub = 5.0 pounds of pistol brass, 140 oz of chemical mix

Main tub = <5.0 pounds of rifle brass, 140 oz chemical mix

Main tub = 4.0 pounds of Magnum Rifle brass, 140 oz chemical mix

1.0 Pound Reference	
Qty	Ammo
75	.223 Rem
80	.45 ACP
110	9mm
35	.30-06 SPGFLD

SPECIFICATIONS

SPECIFICATIONS	
Description	Digital Ultrasonic Cleaner-2 (100-120V)
Model	87056
Tank Capacity	6.0 L / 1.6 Gal.
	Max 5.0 L / 1.3 Gal. Min. 3.35 L / 0.9 Gal.
Tank Size	32.3 x 20.5 x 9.9 cm / 12.7" x 8.1" x 3.9"
Longest Item to Fit in Tank	34.0 cm / 13.4"
Power	290 W (AC 100~120V 60 Hz)
Digital Timer	1-30 Minute Timer
Temperature Settings	40°C/104°F > 45°C/113°F > 50°C/122°F > 55°C/131°F > 60°C/140°F
Drainage	Drainage Valve
Ultrasonic Frequency	35,000 Hz
Tank Material	SUS 304 Stainless Steel
Housing Material	ABS
Net Weight	7.5 kg / 16.5 lb.

CARE AND MAINTENANCE

- After each use turn unit off and unplug power cord from wall.
- Drain unit as explained previously.
- Do not leave water or cleaning solution in cleaning tank for extended periods.
- Wipe all excess moisture from unit and allow to air dry with Lid off.
- Store in dry, cool ventilated area.

ONE YEAR LIMITED WARRANTY

Your Ultrasonic Case Cleaner-2 is warranted to be free from defects in material or workmanship for one year from the date of purchase. This warranty is extended only to the original consumer purchaser. All RCBS products are intended for non-commercial use by hobbyists. Any other use of these products will void the warranty. Should you believe that your Ultrasonic Case Cleaner-2 is defective in material or workmanship, you must return it to RCBS, postage paid for evaluation. If defective, the product will be repaired or replaced at RCBS' option, at no charge.

Send a dated proof of purchase to RCBS for return shipping and handling, along with the Ultrasonic Case Cleaner-2 to:

RCBS
605 Oro Dam Blvd East
Oroville, California 95965

Warranty services cannot be provided without meeting the above requirements.

THIS ONE YEAR LIMITED WARRANTY DOES NOT COVER DEFECTS OR DAMAGE RESULTING FROM: CARELESSNESS, MISUSE, COMMERCIAL USE, ABUSE, IMPROPER INSTALLATION, MODIFICATION, OR NORMAL WEAR AND TEAR. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THIS ONE YEAR LIMITED WARRANTY. RCBS IS NOT LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT AND UNDER NO CIRCUMSTANCES SHALL RCBS BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. HOWEVER, SOME STATES DO NOT ALLOW LIMITATIONS ON INCIDENTAL, OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

The above warranty provides the sole and exclusive warranty available to the customer in the event of a defect in material or workmanship in the reloading product. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

CONTACT US:

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Website: www.rcbs.com



PRECISIONEERED RELOADING EQUIPMENT

We think we make the world's best reloading equipment.
If you agree, please tell your friends.
If you disagree, tell us—we want to do something about it!

Customer Service

1-800-379-1732 (U.S. or Canada)

Hours: Monday - Friday, 5:00 a.m. – 5:00 p.m. Pacific Time
(hours may vary)

E-mail rcbs.tech@vistaoutdoor.com, or visit www.rcbs.com

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