

Speedbrite 300SB Ionic Jewelry Cleaner Adapter

For Your Ultrasonic

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INTRODUCTION

Your Speedbrite adapter is designed to add ionic capability to your ultrasonic cleaner. Surface tension reduction of imbedded soil and cleaning compounds is affected by using ionic at the beginning of the ultrasonic cycle which reduces cleaning time. Oxidation removal and brightening of metal is accomplished by using the ionic cycle at the end of the ultrasonic cycle. You may use only ultrasonic, only ionic or the combination of both cleaning methods.

Speedbrite instructional video on YouTube; type Speedbrite 300SB ionic cleaner in search bar; online see at www.speedbrite.com bottom of the front page.

PREPARATION

BE SURE TO PREPARE YOUR ULTRASONIC FOR THE IONIC ADAPTER. Some ultrasonics have a heavy buildup in the tank. This residue insulates the tank and reduces the activity of the ultrasonic. In addition, residue may be deposited on the piece being cleaned during the ionic process. Therefore, CLEAN your tank by filling it with water and 6 oz. of Gem Sparkle. Suspend the empty wire hanger across the tank being sure it touches the solution. Attach the clip wire and use three to four cycles to clean the tank. Dispose of the cloudy solution and repeat if necessary. Rinse well and your tank is ready to use.

INSTALLATION

Suspend the adapter on the OUTSIDE of the ultrasonic tank making firm contact between the brace and steel tank wall. The shorter end of the brace holds the adapter on a narrow wall ultrasonic, the longer on a wider walled tank. Tighten brace. (the sides of the brace can be inverted for larger tanks) REGULAR CLEANING of the brace will ensure conductivity of this part. The unit can be attached to the front, side or the back of ultrasonic.

OPERATION

1. Fill the tank with water and Gem Sparkle. 1 oz Gem Sparkle to 6 oz water for heavy soil.
For light soil, 1 oz Gem Sparkle to 8 oz water. More for larger tanks
2. Place adapter on tank, tighten brace and place blue screen at the bottom of tank.
3. IONIC cleaning: Suspend items on the ring bar in the solution and attach clip wire to the end of the ring bar. Push the button and you will observe bubbles forming on and around the pieces. This indicates the ionic process is working. Place pieces directly on the stainless-steel ring bar.
A stainless-steel steamer basket or tea strainer may also be used by attaching the clip wire directly to the basket. (Optional baskets must be insulated so they will not touch the side wall of ultrasonic.)
4. Use 1 to 2 cycles for 4-6 pieces, 1 to 3 cycles for 7-12 pieces. The ionic cycle is set for 52 seconds and may be safely repeated. (Except for silver cut cleaning time to 5 to 15 seconds)
Rose gold, gold plated and gold-filled items may require special attention by reducing the cleaning time.
5. Rinse articles and hands well and pat dry with a soft cloth.

When different metals are cleaned at the same time with different results. You should separate different metals and sizes to make sure they all get cleaned correctly. Some will need more time and some less. Items that have been treated with liver of sulfur to darken the appearance will need 5-10 seconds in the cleaner. Check treated item every 5 seconds to see if the natural tarnish was removed and not the man-made tarnish

HINTS FOR TROUBLE FREE CLEANING

It may be necessary to brush behind stones with a soft brush. Stones do not conduct current as metal does. Items are degreased by the ionic cycle but heavy dirt and soap accumulation will need to be brushed and rinsed away.

To prolong clip wire life, rinse after cleaning session and keep clip wire out of solution by attaching it to edge of the basket or ring bar. (clip wire is an electrical part that should not be placed in solution)

Shorter cleaning time is recommended for silver. (Just unplug clip wire and let cycle finish.)

Hematite and copper bearing stones may be safely cleaned by soaking without pushing the button. Limit time in solution for stones that have been soaked in oils for added luster.

Unless using a basket, silver pieces and fine chains should not touch each other in the tank. Slight darkening may occur where the pieces touch each other. Some low karat solder joints may darken. Reclean separately to remove darkening.

You may also wipe with a little silver polish and rinse.

Ionic cleaning is effective for most metals except brass, bronze and copper. Cleaning these items may cause darkening of other metals that are in the same bowl. These items should be cleaned separately, and the bowl, basket and blue screen will need to be cleaned after use. Start with fresh solution after cleaning these items.

The shelf life of Gem Sparkle liquid concentrate is approximately 20 to 24 months. After that time, the **electrolyte is still effective**, but the color may fade to a light pink. Storing solution in bright light will also fade the color but it is still

an effective electrolyte. Dry GS may lighten after water is added if not used within several months. Electrolyte is still effective.

When changing solution, keep button, clip wire and jack areas dry. Cleaner should not be immersed. To clean, pour solution out of side opposite wires and buttons. Cleaning screen and metal plate will improve conductivity. Be sure to replace the screen before refilling.

Speedbrite cleaners are suggested for use as directed with most stones, diamonds and pearls in jewelry items (not strands). Follow suggested cleaning times and limit cleaning time for treated stones, opals or pearls. See website for a list of stone cleaning suggestions for ionic and ultrasonic. Always rinse thoroughly.

Silver, rose gold, gold plated and gold-filled require special attention. Clean for only 5-15 seconds, remove clip wire and rinse. Reclean if still tarnished. Lightly tarnished silver will be tarnish free as soon as foam forms over the piece. However, tarnish on silver may not float away from the piece. Rinsing and buffing with a soft cloth will easily remove this loosened tarnish. Try unclasp chain and attach clip to one end. Pull the chain through the solution a section at a time until it is all cleaned. Rinse and repeat if needed.

You will notice a sulfur odor when cleaning silver. This is normal. Change solution when color turns orange, grayish or cloudy. Using a very dirty solution and allowing sediment to build up under blue screen will diminish cleaning results and, in some cases, redeposit tarnish back onto pieces being cleaned. If the solution evaporates while in unit, add water. (water level should be always kept near the top of bowl) **Depending on water conditions, slightly more concentration may be needed for optimal cleaning. Adding 1 ounce of Gem Sparkle will not harm items being cleaned. Tap water is fine in most cases.**

Jewelry that has been sitting for decades will not come clean. The tarnish was placed on the piece over time and will need to be taken off in layers. This will take several cleanings depending on how many years it took to acquire the layers of tarnish.

Keep transformer plugged into unit when plugged into electrical outlet. Surge strip is suggested. The transformer plugged into an electrical outlet and not the cleaner could short if touching metal. If contact is brief, indicator light will blink but come back on when clip is no longer touching metal. You will save electricity if you unplug the transformer when not in use. Use only transformer supplied with cleaner. Current of supplied transformer will guarantee described results. **Use of a different transformer will void the warranty and possibly darken items exposed to ionic cycle.**

CHANGING SOLUTION

The solution will need to be changed when the pink color changes to gray. Excessively dirty solution may cause darkening of the pieces being cleaned. If this should occur, discoloration can be removed by running the ionic cycle again with clean solution. The shelf life of Gem Sparkle liquid concentrate is approximately 20 - 24 months. After that time, the **electrolyte is still effective**, but the color may fade to a light pink. Storing solution in bright light will also fade the color but it is still an effective electrolyte.

TROUBLE SHOOTING

1. Metal may darken if left in the solution after it is clean. Monitor cleaning time carefully.
2. Silver may darken if used with heat. Your ultrasonic will build up heat even if the heater is off.
Silver is best cleaned in a cool or room temperature solution.
Shorter cleaning time is recommended for silver. (Just unplug clip wire and let cycle finish.)
3. Metal will darken, or short outs occur if pieces touch the side or bottom of the tank. Pieces should not touch each other in the tank. Unclasp chains and draw through solution with clip wire attached to one end.
Do not let silver chain touch itself while attached to the clip wire or ring bar. If pieces are in a stainless basket, the ionic cycle is more forgiving and, in most cases, may touch each other.
4. Clean plated or lacquered silver with caution. It may discolor. (Reduce the time in tank.)
5. Certain oxidation may turn orange. It is easily removed with silver polish.
6. Ionic cleaning is effective for most metals except brass, bronze and copper. Cleaning copper items may cause darkening of items cleaned after the copper is removed. Start with fresh solution after cleaning copper.

PRECAUTIONS

Emeralds, opals, pearls and other delicate stones may be safely cleaned using ONLY the ionic cycle.

Follow normal procedures for safe cleaning when using ultrasonic action.

Two layered screens are provided to protect tanks of varying sizes. (May have to be cut to fit)

PEOPLE WEARING PACEMAKERS OR HEART MONITORS SHOULD AVOID USING ULTRASONIC AND IONIC EQUIPMENT.

WARRANTY

Speedbrite Ionic cleaners are guaranteed to be free of manufacturing defects for a period of one year from the date of purchase. Warranty is void if the unit has been altered in any way or not used as suggested in the operating procedure. The liability of Speedbrite shall be limited to the value of the Model 300SB.

FOR YOUR RECORDS

MODEL 300SB _____

PURCHASE DATE _____

WARRANTY RETURNED _____

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