



# CAPITAL WELD CLEANERS

Capital Weld Cleaners  
1309 N. Leland Ct.  
Gilbert, AZ 85233  
[capitalweldcleaners.com](http://capitalweldcleaners.com)  
480-967-0016

## FEATURES:

- Compatible with Applicator Pump Gun.
- Ergonomic-insulated wand is designed to prevent user fatigue.
- Different electrode and brush designs to help match your application.
- Heavy duty 12' cables to improve durability and efficiency.
- Does not alter the surface finish.
- Dramatically reduces finishing time and costs.
- Compatible with Brush and Chemical Marking Options.
- Circuit and thermal protected.

# 1x30/2x40 WELD CLEANER

STOP

## IMPORTANT!

Read this manual thoroughly and familiarize yourself with ALL controls and operating features. Keep this manual for future reference and maintenance.

AFTER WELD HAS BEEN CLEANED AND PASSIVATED, IT IS IMPERATIVE TO REMOVE THE CLEANING CHEMICAL FROM THE WORK PIECE IMMEDIATELY BY THOROUGHLY NEUTRALIZING THE SURFACE, RINSING WITH CLEAN WATER, AND WIPING WITH A CLEAN CLOTH. DO NOT ALLOW THE CLEANING CHEMICAL TO DRY ON THE WORK PIECE.



# OPERATING INSTRUCTIONS

## STEP 1

1. Attach ground cable to the lower connector and the wand cable to upper connector. Ensure that connections are secure and tight. See Figure 1

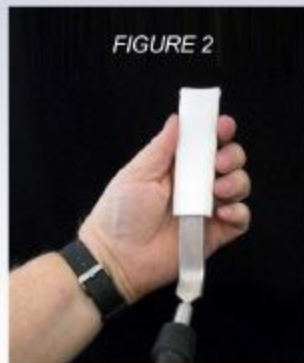


2. Pour a small amount of Capital Weld Cleaning solution that came in the quart container into the small dipping container that also was provided.

## STEP 2

1. Slide CWC insulator sleeve over the wand electrode. See Figure 2.

2. Connect ground clamp to the piece being cleaned or to a conductive work table.



## STEP 3

1. Immerse the wand with insulator sleeve in a small container of CWC solution. See Figure 3.

2. Turn the machine on and contact the weld to be cleaned with the wand.



## STEP 4

1. With slight pressure move wand back and forth over the weld until desired results are achieved. See Figure 4.  
a. Do not use excessive pressure on the wand while cleaning.  
b. Using excessive pressure will decrease the useful life of the insulator sleeve.

2. When the CWC solution on the wand diminishes, immerse the electrode of the wand with sleeve back into the CWC solution. It is important that there is always sufficient CWC solution soaked into the sleeve

3. When the insulator sleeve deteriorates due to the heat generated, turn the machine off, remove the used sleeve and replace with a new one.

4. If the stainless electrode is exposed while cleaning and makes contact with the work surface an arc will occur. Arcing is easy to prevent, but can cause marking to the work piece and cause the unit to overheat if it happens consistently.



## GENERAL INFORMATION

### BEFORE USING THE MACHINE

Follow all safety and operating instructions contained in this manual.

Capital Weld Cleaners offers many different cleaning solutions, application tools, and accessories for your project needs. Please check out our website to see what else we offer.



# Using the brush attachment with machine

1. Loosen set screw on the end of the wand assembly with the provided allen wrench.
2. Remove electrode, insert brush and tighten set screw.
3. Set selector switch on the front of the machine to the Brush/Etch setting.
4. Immerse brush in the CWC cleaning solution and apply onto welded area in a similar fashion as the insulator sleeve.
5. When complete, wipe excess solution off the work piece then apply neutralizer.

*\*When the bristles begin to wear down, trim back the silicone sleeve to expose additional bristles. Trim bristles with scissors as necessary.*

*\*Make sure to keep brush saturated with weld cleaning solution.*



## Capital Weld Cleaners Neutralizer

*A sample spray bottle has been provided for your use.*

*After the weld has been cleaned, wipe excess solution off part with a dry rag then liberally spray the area with Capital Weld Cleaners Neutralizer.*

*After the affected area has been thoroughly sprayed with neutralizer, rinse with flowing water then wipe with a separate clean dry rag.*



# IMPORTANT!



After weld has been cleaned and passivated, it is imperative to remove the cleaning chemical from the work piece immediately by thoroughly neutralizing the surface, rinsing with clean water, and wiping with a clean cloth. Do not allow the cleaning chemical to dry on the work piece.



## TIPS:

### CWC insulator sleeves:

- There are a few things that can be done to extend the usable life of each insulator sleeve. One way to do this is to control the heat produced during the weld cleaning process. During the weld cleaning process, heat is generated and the electrode and sleeve can reach high temperatures, which plays a role in the break-down of the Insulator Sleeve material. The longer a single uninterrupted pass is, the more heat will build up. To control the heat buildup, use shorter passes and re-immense the insulator sleeve in solution to help cool off the sleeve and electrode. The insulator sleeve can also be removed and rotated for use on both sides. Alternating edges from one pass to the next and using all sides will also increase the useful life of each sleeve.

## MAINTENANCE AND SAFETY

- The weld cleaner solution is a mild acid solution. Caution must be used when handling. It is also recommended to wear safety glasses to avoid contact with eyes. Prolonged exposure may cause irritation to skin. Rubber gloves are recommended. Please refer to our enclosed Safety Instruction for further information.
- Use different electrodes and brushes depending on application for improved efficiency and the best finished product.
- Turn power off when not in use.
- If the unit does not turn on, check the 10 amp fuse located on the back of the unit. Push button to reset.
- Confirm input power setting (Red Slide Switch on Back Panel) is in the correct position for either 115v or 230v operation.
- Confirm proper setting for brush or electrode prior to use.

## WARRANTY

Capital Weld Cleaners offers a two year warranty on manufacturer's defects. If there are problems, please call us and we may be able to help resolve the problem over the phone. If we cannot, we will repair you machine at our facility the same day we receive it or replace it free of charge and pay return shipping.



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