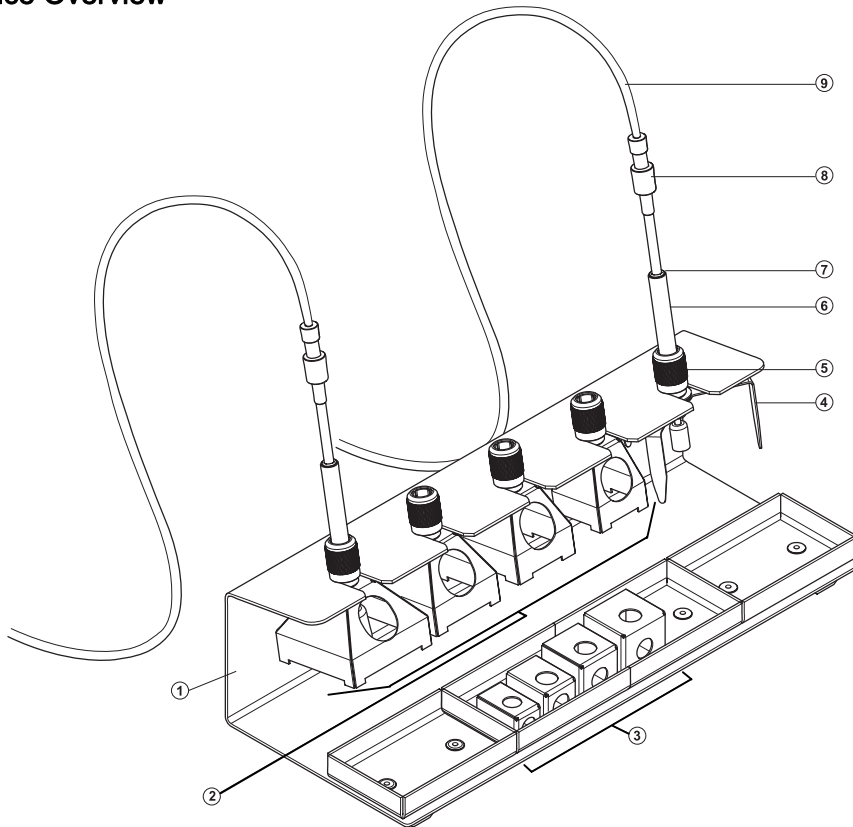


Device Overview



- 1 WRK Stand / Tool Holder
- 2 Reflow nozzle, large
- 3 Reflow nozzle, small
- 4 Tripod / Stand-Off
- 5 Clamping sleeve
- 6 Vacuum pick-up tool
- 7 Marker ring (Indicates Component Height)
- 8 Vacuum tube connector
- 9 Vacuum tube
- 10 Vacuum Cup with Heat Shield

**Test Equipment Depot**  
  
 1-800-517-8431

99 Washington Street  
 Melrose, MA 02176  
 Phone 781-665-1400  
 Toll Free 1-800-571-8431

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## 1 Instructions

Thank you for placing your trust in our company by purchasing the Weller WRK.

This product meets or exceeds the requirements established by Weller for superior performance, versatility and quality.

These instructions contain information to help you operate and service the WRK safely and correctly.

- ▷ Read these instructions in their entirety before working with the WRK.
- ▷ Keep these instructions in a place that is accessible to all users.

### 1.1 Additional Documents

- Please read the Operating Instructions of your Control Unit and Safety Information booklet

## 2 Cautions and Warnings!

Please read the WRK Operating Instructions and the attached Safety Information carefully prior to initial operation. Failure to observe the safety warnings may result in accident, injury, or risk to health.

The manufacturer shall not be liable for damage resulting from misuse of this product or unauthorized alterations.

**Warning:** This product when used for soldering and similar applications, produces chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 2.1 Safety Information

- ⓘ Always place the Reflow Nozzles in the original holder
- ⓘ Remove all inflammable objects from the proximity of the hot soldering tool.
- ⓘ Use suitable protective clothing to prevent the risk of burns associated with molten solder.
- ⓘ Never work on electrically live circuits or components.
- ⓘ Always wear eye protection when working with soldering and desoldering applications.

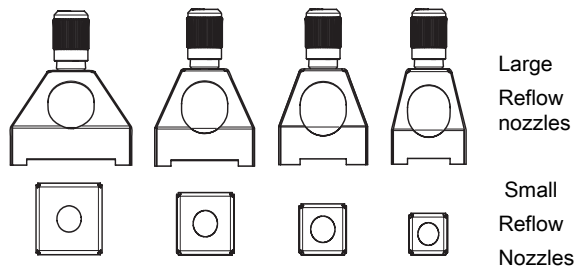
## 3 Description of the WRK

The Weller WRK Removal Kit optimizes the rework process and enables SMT components to be removed precisely and without being damaged.

The removal procedure can be optimized for each component size between .120" and 1.181", (3 mm and 30 mm) with the aid of the different reflow nozzles.

The reflow nozzles are suitable for the use of the HAP 1 and HAP 200 Hot Air tools.

### Suitable reflow nozzles for HAP 1 and HAP 200



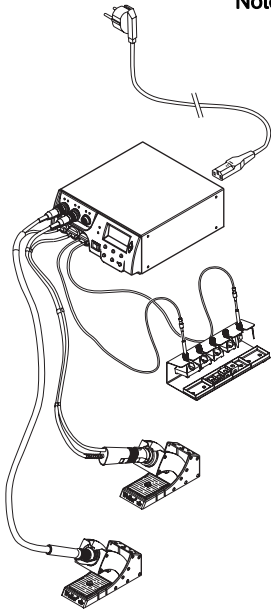
## 4 Initial Setup

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**WARNING!** Risk of injury due to incorrectly connected vacuum hose.



- ▷ Never connect the vacuum hose to the "Air" port!
-



**Note** Also read and observe the Operating Instructions of your control unit.

1. Carefully unpack the WRK.
2. Assemble reflow nozzles (2, 3), tripod (4) and pick-up tool (6) in holder (1).
3. Switch off the control unit.
4. Connect the hot-air pencil (HAP) with air hose to the "Air" outlet of the control unit and insert with the attachment plug in the correct connection socket of the repair station. Lock by turning clockwise slightly (connect HAP 1 with adapter only).
5. Connect vacuum pick-up (6) with vacuum hose to the vacuum pick-up ports of the control unit.
6. Attach a suitable reflow nozzle or tripod to the vacuum pick-up (see Sections 5.1 and 5.2).

It is possible to use large reflow nozzles, small reflow nozzles with tripod or the tripod on its own to lift off small components with the vacuum pick-up tool.

#### 4.1 Mounting the Reflow Nozzle

1. Check the .400 ", (10 mm) diameter vacuum pick-up tool to ensure the components (clamping sleeve (5), marker ring (7) and vacuum cup with heat shield (10)) are correctly installed.
2. Assemble nozzles directly to vacuum pick-up tool (6) using the clamping sleeve (5).

**Note** The reflow nozzles are not assembled directly to the .180 ", (4.5 mm) vacuum pick-up tool. Ensure the tripod and the .180 ", (4.5 mm) diameter vacuum pick-up tool are correctly positioned in the nozzle and on the component.

#### 4.2 Mounting the tripod

1. Check the .180 ", (4.5 mm) diameter vacuum pick-up tool to ensure the components (clamping sleeve (5), marker ring (7) and vacuum cup with heat shield (10)) are correctly assembled.
2. Screw tripod (4) to the vacuum pick-up tool (6) using the clamping sleeve (5).

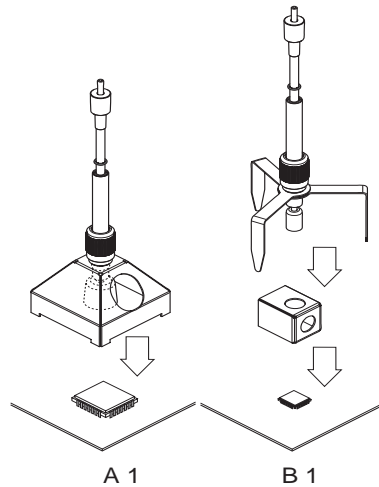
You can use the .180 ", (4.5 mm) diameter vacuum pick-up tool mounted in this way with a Large reflow nozzle (**A1**) or with Small a reflow nozzle (**B1**). When working without a reflow nozzle, you can also use a .400 " (10 mm) diameter vacuum pick-up tool.

## 5 Using the WRK

WRK operation during the component removal procedure is divided into 3 steps:

1. Positioning the Vacuum Pick-up tool
2. Preparing for Component Pick-up
3. Reflow and Removal of the component

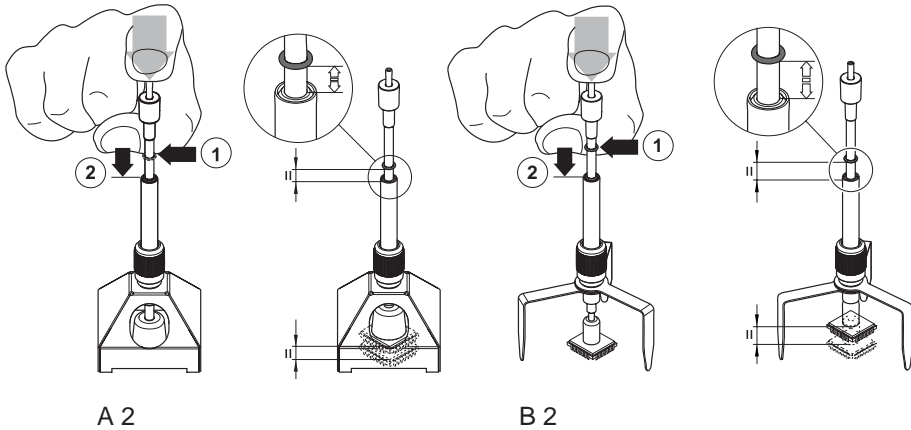
### 5.1 Positioning the Pick-up



The component to be reworked must be at least .08 " , (2 mm) smaller than the diameter of the reflow nozzle used, otherwise the component may be damaged.

- ▷ Carefully position the large reflow nozzle (**A1**) or tripod with small reflow nozzle (**B1**) with the vacuum pick-up tool over the component and center the component within the nozzle.

## 5.2 Preparing for Component Pick-up

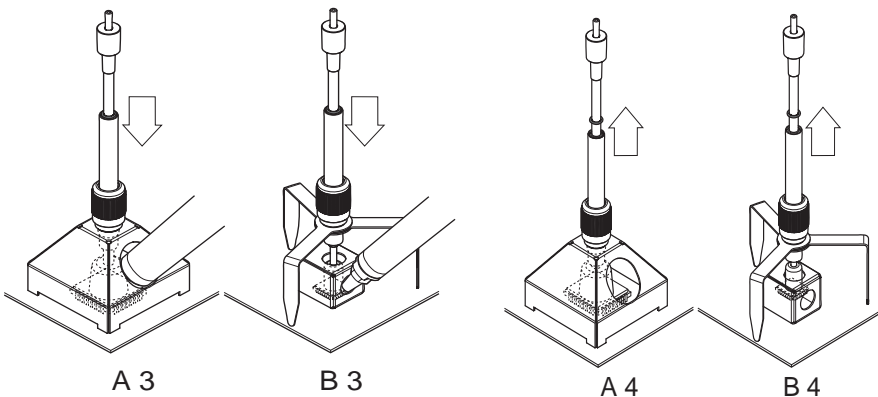


**Note** Pictures are for illustration use only. Vacuum hose must be connected and activated for the vacuum pick-up tool to operate.

1. Carefully position the vacuum pick-up tool with mounted reflow nozzle, **(A2)** or with the tripod, **(B2)** over the component.
2. Carefully press the vacuum pick-up tool down .120-.400", (3-5 mm) over the component (1) without damaging the component.
3. Switch on the vacuum on the control unit and subject the component to suction.
4. Slide the marker ring in this position downwards (2).

The marker ring indicates whether the component subjected to suction is raised (rubber = at top) or not raised (rubber = at bottom).

## 5.3 Reflow and Removal of the Component



1. Position the vacuum pick-up tool over the component (see 5.1) and prepare desoldering (see 5.2).
2. Feed the hot-air tool from the side through the designated nozzle opening up to the component and actuate the hot air tool until the component is reflowed and raised by the vacuum pick-up tool (see 5.3).

The marker ring is now in the upper position.

3. Remove the hot-air tool and switch off.
4. Position the vacuum pick-up tool together with the nozzle and the removed component on a heat resistant surface.
5. Carefully press the vacuum pick-up tool downwards and switch off the vacuum. Wait several seconds for the component to release before moving the tool

**Note** You can also work without a reflow nozzle, e.g. in the case of components larger than 1.180 ", (30 mm).

## 6 Accessories

0051515499	WRK holder
0058761730	Nozzle set 33x33/24x24 with pick-up
0058761731	Nozzle set 27x27/20x20 with pick-up
0058761732	Nozzle set 18/15.5/12.5/10 with pick-up

## 7 Packing List

- WRK consisting of :
  - Holder.
  - 180 " (4.5 mm) diameter Pick-up
  - .400 " , (10 mm) diameter Pick-up
  - Tripod
  - Reflow nozzles:
    - Large (33x33 mm, 27x27 mm, 24x24 mm, 20x20 mm)
    - Small (18x18 mm, 15.5x15.5 mm, 12.5x12.5 mm, 10x10 mm)
- 3 suction inserts each for .180 " (4.5 mm) diameter and .400 " (10 mm) diameter
- 2 vacuum hoses with connector
- Operating Instructions for WRK removal kit

## 8 Disposal

Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country.

## 9 Warranty

Cooper Hand Tools warrants to the original purchaser and any subsequent owner ("Buyer") that Weller soldering and desoldering products will be free from defects in material and workmanship for a period of **one year** from date of purchase, provided that no warranty is made with respect to products which have been altered, subjected to abuse or improperly used, installed or repaired. Use of non-Cooper Hand Tools components will void this warranty if a non-Cooper Hand Tools component is defective (or is the source of the defect). Cooper Hand Tools will repair or replace products found to be defective not caused by a part, component or accessory manufactured by another company, during the warranty period. Contact Cooper Hand Tools with dated proof of purchase and return to Cooper Hand Tools, 1000 Lufkin Road, Apex, NC 27539. All costs of transportation and reinstallation shall be borne by Buyers.

IN NO EVENT SHALL COOPER HAND TOOLS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. COOPER HAND TOOLS LIABILITY FOR ANY CLAIMS ARISING OUT OF THIS WARRANTY SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT.

THE PERIOD OF ALL IMPLIED WARRANTIES APPLICABLE TO THIS PRODUCT INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO 12 MONTHS FROM THE DATE OF PURCHASE BY THE USER.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.