

Classic Weller®

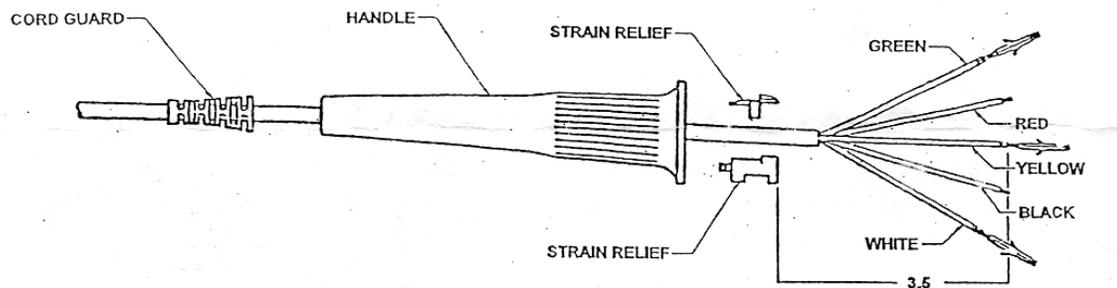
Weller handle disassembly



Weller standardized on the EC232 / TC218 style handle for many of its soldering irons in the early 1980s. This handle has been used for a variety of soldering irons and stations by Weller for the past 25 years.

The design features a black heater insulator that permits the usage of plug-in heaters (EC234) as well as wired heaters (WCC102, HE40); and a cord strain relief design for 3 and 5-wire power cords (24 VAC or 120 VAC line voltage)

Weller uses this handle design for the EC1201A (EC232); the TC201T (TC218); WCC101 (EC232); and SPG40 (orange colored) soldering irons.



Weller EC232
EC1201A and EC1201P Handle and Cord Guard

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Disassembly of Soldering Iron:

1. Remove two screws from heater flange.
 - a. IF your heater flange has FOUR screws – STOP. You have an old (pre-1983) style handle. These instructions are NOT for this style of iron.
2. Remove EC234 plug-in heater by pulling heater straight out of black handle insulator.
3. Remove cord guard by twisting until the 2 small black tabs on the strain relief “lines up” with notches in the cord guard. Press to one side or use a screwdriver to push in one of the black tangs until it releases.
4. You will notice that the rear of the handle is “D” shaped. Using a small screwdriver, release the strain relief by inserting a screwdriver into the flat part of the “D” to depress the cord strain relief (see Figure 1)
5. Push cord in towards handle and gently pull the heater insulator away from the handle body.

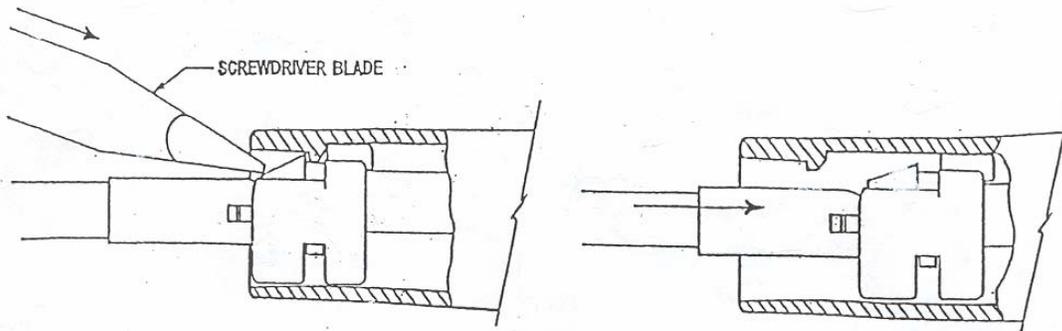
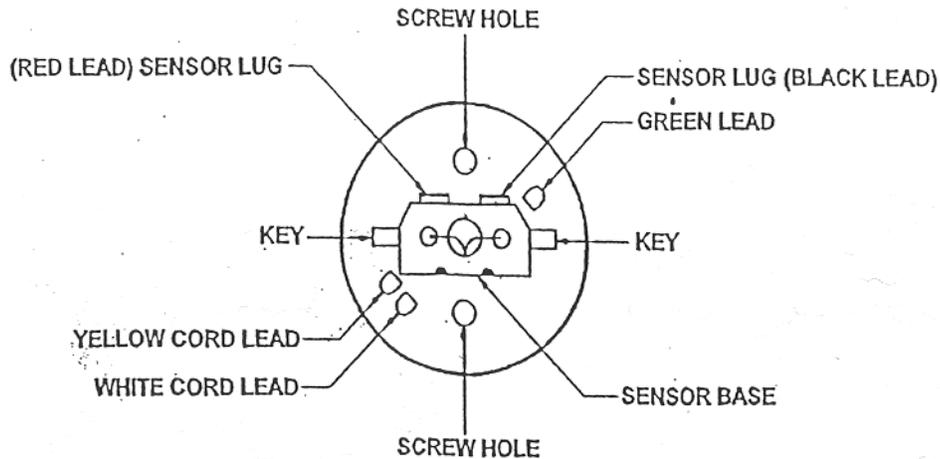


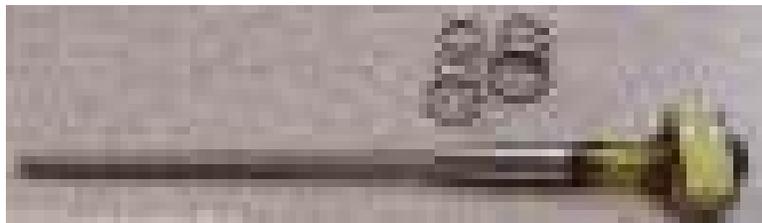
FIGURE 1

- For the EC1201A and EC1201P soldering irons you will see the Red and Black wires for the cord attached to solder tabs on the temperature sensor (Type K thermocouple) positioned in the center of the heat insulator. The yellow, white and green cord wires connect to the socket pins in the heat insulator. Yellow and White for the heater and Green for the heater flange and soldering tip ground.



View of black heat insulator from handle/cord side
EC1201P or EC1201A

- For the TC201P and TC201T soldering irons you will see the White and Green wires from the cord connect to the socket pins in the heat insulator. The Black cord wire connects to the Magnistat magnetic switch (SW60) positioned in the center of the heat insulator with a wire nut. The other wire from the magnetic switch connects to a socket pin in the heat insulator.
- If you are replacing a defective temperature sensor (EC229A) or magnetic switch (SW60), follow the instructions included with that Weller replacement part.



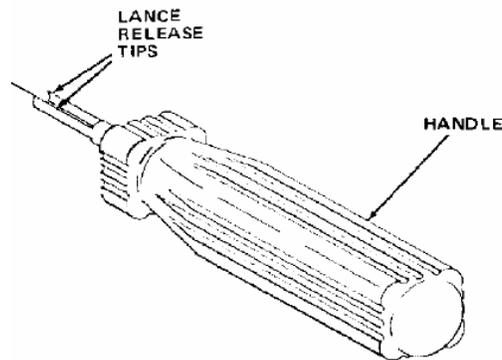
EC229A Sensor

Removal of socket pins from Heater Insulator

IF you are replacing the SW60 magnetic switch or repairing a damaged wire that connects to the socket pin in the Heat Insulator, then it is important to know the correct removal and insertion procedure without damaging the heat insulator or the socket pins.

The socket pins used in the heat insulator are Amp/Tyco Electronics part number 207437-3 (nickel plated). The extractor tool is Amp part number 91136-1.

The socket pins and extractor tool are available from DigiKey, part numbers: A25083-ND and A25081-ND



AMP Extractor Tool 91136-1

Additional details in the proper assembly, insertion and extraction of the Amp 207437-3 socket pins can be found on the Amp/Tyco Electronics web site support pages. These documents can also be found on the A25081-ND product description page of the DigiKey on-line catalog.

An alternative extractor tool can be fabricated from a bobby pin (Figure 2).

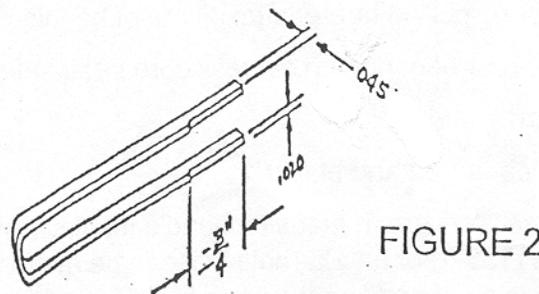


FIGURE 2

Fabrication instructions

1. File the ends of the booby pin even and flat.
2. Then file pin width to 0.045 inches on both legs of pin
3. File this .045 inch pin width back 0.75 inches from the end of the pin.