

TEMPERATURE CONTROLLED SOLDERING STATION

A transformer powered soldering station, complete with a low voltage, temperature controlled soldering pencil. The special Weller "closed loop" method of controlling maximum tip temperature is employed, thereby protecting temperature sensitive components while the grounded tip protects voltage and current sensitive components. An earth terminal is provided for the connection of the work piece. This provides a means to balance the potential between the earthed soldering tip and work. The soldering pencil features a stainless steel heater construction, a non-burning silicon rubber cord and a large selection of iron plated tips in sizes from 0.8mm diameter to 6mm diameter with a choice of tip-temperature of 315°C/600°F, 370°C/700°F and 430°C/800°F.

The transformer case features impact-resistant material for durability and protection against accidental damage, a quick connect/disconnect plug for the soldering iron, an off-on switch with a long-life neon indicator light and a 2m flexible 3-wire power cord. Lock slots are provided on both sides of the case for the attachment of the soldering iron stand. The stand itself has a water well that the wick feeds the sponge.

The Soldering Iron is normally provided with a PTA7 1.6mm screwdriver 370°C/700°F tip. The Soldering Iron is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with this soldering iron.

WARNING - The Soldering Iron must be placed on its stand when not in use.

SPECIFICATION

POWER UNIT: TC202DS

1. Power Input 240 Volt s 50Hz 60 Watts
2. Transformer Output Voltage - 24 Volts (full load)
3. Power Unit Size - 115mm x 150mm x 92mm
4. 2 Metres, 3 Wire Power Cord.

SOLDERING PENCIL: TC201

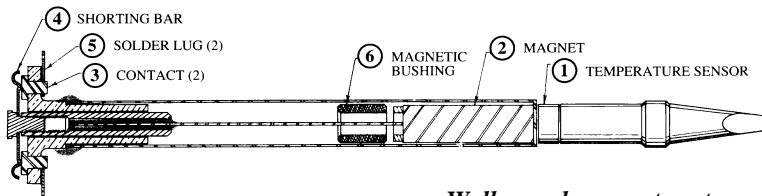
1. Soldering Pencil Wattage - 48 Watts
2. Tip Grounded
3. Pencil Weight - 50 grams (W/O Cord)
4. Recovery Time (From 37°C Drop)
W/PTA7 Tip = 11 Sec.
5. Cord: Silicon Rubber - Burn Resistant - 1.2m

Part Number	Description
WTCPTD	Soldering Station



Weller®

CAUTION: TIP IS GROUNDED. DO NOT SOLDER IN AN ENERGIZED CIRCUIT



PRINCIPLE OF OPERATION

When the soldering tip is cold, a ferromagnetic temperature sensor (1) attached to the tip attracts a permanent magnet (2). The magnet movement causes a shorting bar (4) to make contact with a set of isolated electrical contacts (3) thereby supplying power to the heating element through the solder lugs (5). When the tip reaches its idle temperature, the sensor becomes nonmagnetic and no longer attracts the magnet. Then a magnetic bushing (6) attracts the magnets causing the shorting bar to break the circuit. In this manner, power to the elements is turned on and off automatically.

Weller replacement parts and accessories

Part Number	Description
WHE60	Heating Element (24V)
WSW60D	Switch Assembly
WTC205	Sponge
WTC201	Soldering Pencil

Part Number	Description
WCS100	Cord Set
WBA60	Barrel Nut Assembly
WH060	Weller handle
WTC207S	Switch/Light for power unit

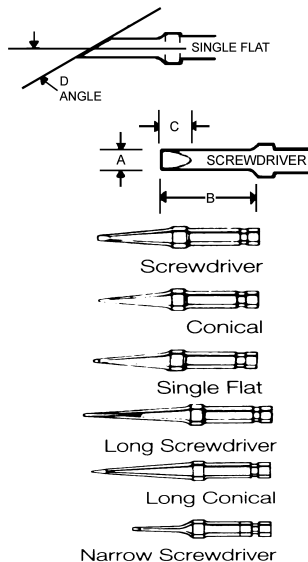
ABOUT WELLER SOLDERING PENCIL TIPS

All Weller PT Series soldering pencil tips have been plated with an exclusive process that deposits three (3) protective coatings. The high conductivity copper tips have been plated, then nickel plated and finally chromium plated on non-working surfaces. The working surface is then pre-tinned. The chromium and nickel plating of the tip prevents oxidation of the iron plating which can cause freezing of the tip in the pencil. The chromium also prevents solder "creep up". Weller's "temperature-sensing" tips have a small ferromagnetic sensing element attached to the tip shank. The sensing element is coded with a number to indicate idle temperature in hundreds of degrees F. Thus a simple change of tips is all that is necessary to adapt the tool to an entirely different temperature range.

Use only original Weller soldering tips, parts and accessories for this product.

SELECTION OF WELLER PT SERIES TIPS

1. Select a tip configuration with the maximum working surface, thickest cross section and shortest reach compatible with the size, accessibility, and the visual restrictions of the solder joint.
2. Select a tip temperature based on the size of the solder joint, the temperature sensitivity of the components and the production rate required. Please note that tip life is directly related to tip temperature - the lower the tip temperature the longer the life



600°F / 315°C	700°F / 370°C	800°F / 430°C	Description	A mm	B mm	C mm	D
PTA6	PTA7	PTA8	Screwdriver	1.6	16.0	2.4	15°
PTAA6	PTAA7	PTAA8	Single Flat	1.6	16.0	2.4	30°
PTB6	PTB7	PTB8	Screwdriver	2.4	16.0	2.4	22°
PTBB6	PTBB7	PTBB8	Single Flat	2.4	16.0	2.4	30°
PTC6	PTC7	PTC8	Screwdriver	3.2	16.0	3.2	22°
PTCC6	PTCC7	PTCC8	Single Flat	3.2	16.0	3.2	30°
PTD6	PTD7	PTD8	Screwdriver	5.0	16.0	5.0	22°
PTDD6	PTDD7	PTDD8	Single Flat	5.0	16.0	5.0	30°
PTP6	PTP7	PTP8	Conical	0.8	16.0		
PTK6	PTK7	PTK8	Long Screwdriver	1.2	25.4	11.0	7°
PTH6	PTH7	PTH8	Screwdriver	0.8	16.0	3.2	15°
PTL6	PTL7	PTL8	Long Screwdriver	2.0	25.4	1.3	7°
PTF6	PTF7	PTF8	Conical Flat	1.2	16.0	1.2	40°
PTM6	PTM7	PTM8	Long Screwdriver	3.2	25.4	19.0	7°
PTE6	PTE7	PTE8	Screwdriver	6.0	16.0	5.0	22°
PTO6	PTO7	PTO8	Long Conical	0.8	25.4		
PTR6	PTR7	PTR8	Narrow Screwdriver	1.6	15.6	2.3	25°
PTS6	PTS7	PTS8	Long Conical	0.4	25.4		