

## Model: 10502

### LIGHT CAPACITY TWEezer-STYLE RESISTANCE SOLDERING SYSTEM



American Beauty offers the most advanced and complete line of resistance soldering systems available anywhere in the world. Here are just a few of the advantages that you will find with resistance soldering systems:

- **Smash Operational Bottlenecks** - Concentrated heat reduces solder time many times over.
- **Improve Solder Joint Quality** - Poor solder joints are often the result of insufficient heat throughout the joint, creating weak spots.
- **Eliminate Thermal Damage** - Traditional soldering methods introduce too much heat into surrounding areas damaging critical components or desoldering of previously soldered joints.
- **Reduce Liability** - Light-weight handpieces cool within seconds greatly reducing likelihood of repetitive strain injury and virtually eliminating the burn risk for the user.
- **Solder in Tight Spots** - Versatile systems allow easy access to restricted areas.
- **Cut down on Energy Consumption** - Instant heat means you're not paying to heat a soldering station all day long.
- **Save on Maintenance and Consumables** - Electrodes last twice as long as soldering tips and don't require constant rewetting.

Stop trying to perform your difficult soldering operation the same old way with the same old tools. Try an American Beauty Resistance Soldering System today.

#### ACCESSORIES

The following products can be used as Accessories for Model 10502 featured on this page:

Model	Product Name
105133	Micro Tweezer Style Handpiece
10595	Fixed Dual 1/8" Probe Style Power Unit Attachment
105PTM	Resistance Soldering Precision Timer Module
105V12	Grounding Vise for Holding Parts Hands-Free
484-2G	Dri-Wick Desoldering Braid (Size Two~Spool)
CS-FX1	Flux Pen
CS-FX4	Ruby Fluid Liquid Flux
CS-PBF1	Solder Tube
HS-A	Heat Sink - Micro Alligator Clip
HS-B	Heat Sink - Alligator Clip

#### FEATURES AND BENEFITS

**250 Watts of (2.7 VAC) Infinitely Variable Power**  
Step-less Dialing, to 100 % of the available output for precise and consistent repeatability, provides the ideal combination of intensity and control.

**Soft Cushion Padding** For increased comfort and a secure grip when performing meticulous soldering applications. Provides excellent thermal and electrical insulation.

**Copper-coated, stainless steel electrodes** can be easily bent, notched or filed, allowing the user to customize the handpiece to their specific application.

**Footswitch** permits hands-free activation of power, vastly improving control of your applications and virtually eliminating the sparking that is common with other brands of resistance based systems.

#### REPLACEMENT PARTS

The following products can be used as replacements for Model 10502 featured on this page:

Model	Product Name
10519	Standard Footswitch
10541	Light Tweezer Style Handpiece
10542	5/64" Steel Electrodes for Resistance Soldering
105A12	250 Watt Infinitely-Variable Resistance Soldering Power Unit

## TECHNICAL SPECIFICATIONS

Connection Type	Tapered Pins
Wattage	250 watts
Opening between Electrodes	.25 in / 0.64 cm
Electrode Size/Diameter	.078 in / 0.20 cm
Available in a 220-240 VAC?	Yes, available upon request
Product Length	10.25 in / 26.04 cm
Product Width	8.25 in / 20.96 cm
Product Height	6.50 in / 16.51 cm
Package Weight	8.50 lbs / 3.86 kg
Country of Origin	US
Harmonization Code:	8515.11.0000
Cage Code	02105
RoHS Compliant	Yes
BS EN IEC 60335-1:2023+A11:2023	Yes
BS EN IEC 61558-2-6 2001, UL 5085-3 2022	Yes
BS EN 60335-2-45:2002+A11:2023	Yes
WEEE Compliant	Yes
CE Certified	Yes
Warranty Policy	Details
User Manual	User Manual

## SIMILAR PRODUCTS

The following products are related (similar model but different specifications, etc.) to Model 10502 featured on this page:

Model	Product Name
10501	Ultra-Light Capacity Tweezer-Style Resistance Soldering System
10504	Standard Capacity Tweezer-Style Resistance Soldering System

## APPLICATIONS

Users of this product have stated that they use it for several jobs which include but are not limited to:

1. Soldering wire terminations 18 AWG and finer
2. Soldering fiber optic cable into gold plated termination
3. Soldering lead wires to multi-pin tap switch & military connectors
4. Soldering component leads for through hole PCB assembly
5. Repairing fine jewelry
6. Repairing cable assemblies in submarines
7. Soldering delicate photo etch brass & stainless
8. Soldering microwave cable assemblies
9. Soldering in process of jewelry making
10. Removing an oxidized screw by heating
11. Soldering RF Connector PINs
12. Soldering surface mounted componet repairs
13. Repairing electrical and metal soldering joints
14. Repairing surface mount componets
15. Soldering parts/components onto **aircraft**
16. Soldering connectors on Remote Control Helicopters
17. Welding wire for solid oxide fuel cell applications

## END-OF-LIFE INSTRUCTIONS

In an effort to reduce waste and comply with WEEE directive, please do not dispose of product. All American Beauty Tools are serviceable and can be repaired and/or replaced. Please contact manufacturer to make arrangements.