

## Model: 10504

### STANDARD 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 10504 featured on this page:

| Model   | Product Name  |
|---------|---|
| 105133  | Micro Tweezer Style Handpiece                       |
| 10541   | Light 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         |
| 484-3G  | Dri-Wick Desoldering Braid (Size Three~Spool)       |
| 485-8C  | Dri-Wick Desoldering Braid in Thumb-Wheel Dispenser |
| CS-FX2  | Flux_2oz Jar  |
| CS-FX4  | Ruby Fluid Liquid Flux                              |
| CS-PBF2 | Solder Spool  |
| HS-C    | Heat Sink - Alligator Clip w. Barrel                |

#### 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 10504 featured on this page:

| Model  | Product Name   |
|--------|--|
| 105127 | Standard Tweezer Style Handpiece                             |
| 10519  | Standard Footswitch  |
| 10594  | 1/8" 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               | .625 in / 1.59 cm           |
| Electrode Size/Diameter                  | .125 in / 0.32 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                           | 8.85 lbs / 4.01 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 10504 featured on this page:

| Model | Product Name  |
|-------|---|
| 10502 | Light Capacity Tweezer-Style Resistance Soldering System    |
| 10504 | Standard Capacity Tweezer-Style Resistance Soldering System |
| 105L7 | High 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 semi-rigid coaxial cable terminations up to .141"
2. Soldering wire terminations 12 AWG and finer
3. Soldering heavy leads onto PC board
4. Soldering component leads for through hole PCB assembly
5. Soldering cable assemblies in production-line environment
6. Soldering .062" high pressure line brass tube into quick disconnect brass fitting
7. Remanufacturing small electric D.C. motors
8. Starting PCB foil bond pulls
9. Soldering the connector to the UT141 rigid cable.
10. Soldering connectors on to RF cables
11. Connecting .925 sterling silver jump rings
12. Soldering chip resistors onto circuit boards with large heat sinks
13. Assembly of wire harnesses
14. Soldering battery packs and other hobby-related electronics
15. Construction of Radio Astronomy Receiver

## 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.