



Description

American Beauty offers the widest selection of resistance soldering handpieces in the world. Our hand pieces are designed and built to provide absolute performance in even the toughest environments. By generating heat instantaneously and right at the point of contact, you are able to easily handle the historically difficult soldering jobs.

Related Products

The following products are related (similar model but different specifications, etc.) to Model 10511 featured on this page:

Model	Product Name	
10509	Standard Capacity Probe-Style Resistance Soldering System	

Replacement Products

The following products can be used as replacements for Model 10511 featured on this page:

Model	Product Name	
10549	1/4" Carbon Electrodes for Resistance Soldering	

Applications

Technical Specifications

RoHS Compliant	Yes
Connection Type	Tapered Pins
Electrode Size/Diameter	.25 in / 0.64 cm
Product Length	8 in / 20.32 cm
Country of Origin	US
Package Length	9.50 in / 24.13 cm
Package Width	2.00 in / 5.08 cm
Package Height	2.00 in / 5.08 cm
Shipping Weight	.65 lbs / 0.29 kg

User Information and Instruction Sheet

Other Product Data Sheets

Summary: Resistance heat is obtained by passing a safe, low voltage, high amperage current through a resistive alloy. As with all Resistance Soldering Handpieces, heat is generated local to the work-piece. Current is present for only so long as power is applied to the Handpiece and there is a path for the current from the Power Unit, through the Handpiece and back to the Power Unit.

Description: Standard Single Carbon Electrode Handpiece. Supplied with a ¼" x 3" (6.35 mm x 76.2 mm) Copper-Clad Carbon Electrode. This Handpiece features a heavy-duty Bakelite handle for operator comfort and is assembled with Nickel-plated steel heat baffles for cooling and Nickel-plated steel electrode holders for fast efficient heat. It is equipped with a four-foot (1.22 m) 10 AWG high-stranded DLO cable (for flexibility), with a taper pin quick connect terminal for connection to American Beauty® Power Units (push in turning clockwise until snug). The Handpiece weighs only 6 ounces complete, which minimizes operator fatigue. Electrodes may be inserted straight into the Handpiece or at a 45-degree angle, depending on your application requirements.

- **This Handpiece should not be operated above 500 watts.**
- Maximum wattage that is shown reflects a 20-second maximum allowable heating duration. For shorter heating durations, higher wattages may be allowable.

- Grounding (current-return) lead, or Grounding Fixture, is required in order to complete the electrical circuit for all Single Electrode Handpieces.

Uses: This American Beauty® Soldering Handpiece will instantly provide intense localized heat to create accurate, trustworthy solder joints in a wide variety of soldering applications. It was developed to introduce intense heat to a single localized point of contact. It may be used for general service in electrical equipment manufacture, rework or repair. It may also be used for soldering seams, or for soldering in areas, which may be inaccessible to Tweezer Style Handpieces. By using one of the available electrode adapters listed below, this Handpiece can accommodate most light, or medium-duty soldering applications.

Please reference the General Operating Instructions for American Beauty® Resistance Soldering Systems for more detailed operating instructions and guidelines.

- The Model 10510 Adapter is used to accommodate the 3/8" x 3" (9.5 mm x 76.2 mm) electrode Model 10527.
- The Model 10522 Adapter is used to accommodate the 3/16" x 3" (4.8 mm x 76.2 mm) electrode Model 10525.
- The Model 10523 Adapter is used to accommodate the 1/8" x 3" (3.2 mm x 76.2 mm) electrode Model 10524.

WARNING: ELECTRODES GENERATE A SIGNIFICANT AMOUNT OF HEAT WHEN POWER IS APPLIED. USE WITH CAUTION TO AVOID BURNS, FIRE OR OTHER POTENTIAL DAMAGE. DO NOT OPERATE NEAR COMBUSTABLE MATERIALS. NORMAL USE OF THIS PRODUCT IS LIKELY TO EXPOSE THE USER TO SOLDERS CONTAINING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS (OR OTHER REPRODUCTIVE HARM) OR OTHER PROPOSITION 65 LISTED CHEMICALS.

Features and Benefits

Copper-coated carbon electrodes can be easily notched/shaped, allowing the user to customize the handpiece to their specific application.