



Description

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.

Related Products

The following products are related (similar model but different specifications, etc.) to Model 10535 featured on this page:

Model	Product Name
105PTM	Resistance Soldering Precision Timer Module

Replacement Products

The following products can be used as replacements for Model 10535 featured on this page:

Model	Product Name
10513A	Fixed Dual 1/2" Probe Style Power Unit Attachment
10519	Standard Footswitch
10534	1/2" Carbon Electrodes for Resistance Soldering
105B2	1,100 Watt Selectively-Variable Resistance Soldering Power Unit

Applications

Technical Specifications

RoHS Compliant	Yes
Connection Type	Tapered Pins
Electrode Size/Diameter	.50 in / 1.27 cm
Wattage	1100 watts
Available in 220-240VAC?	Yes
Country of Origin	US
Package Length	12.25 in / 31.12 cm
Package Width	12.25 in / 31.12 cm
Package Height	11 in / 27.94 cm
Shipping Weight	24.45 lbs / 11.09 kg

User Information and Instruction Sheet

Other Product Data Sheets

Summary: This American Beauty® Soldering System has been assembled for your convenience, in order to help eliminate confusion when ordering equipment to be used for most of your high capacity soldering and thermal management applications.

Description: This System consists of a Model 105B2 (1100 watt) Power Unit, a Model 10513A Panel Attachment and a Model 10519 Footswitch.

- **Power Unit Description:** The Model 105B2 Power Unit has a low-voltage, high amperage, selectively variable output, isolated transformer. The output voltage is

1.2 - 5.8 VAC (with no load), selectable through a multi-tapped primary switch and three secondary taps. This Power Unit may be adapted to automated and fixtured production tooling. For more detailed information please read the Information/Instruction sheet included with the Power Unit in this Kit.

- **Panel Attachment Description:** The Model 10513A Panel Attachment is a stationary, dual carbon electrode device for mounting to the front of the 105B2 Power Unit, using ¼-20 brass screws in any two of the three output terminals (choose the correct terminals for the desired output). This Panel Attachment accepts Model 10534 (½" x 3" (12.7 x 76.2 mm)) carbon electrodes as the standard. For more detailed information please read the Information/Instruction sheet included with the Panel Attachment in this Kit.
- **Footswitch Description:** The Model 10519 Footswitch is a rugged, industrial switch, (wired normally open), with a six-foot (1.83 m) 18-3 SJT cord and NEMA 5-15 P/R piggyback style plug/receptacle. This footswitch is often used, to better control the cycle time needed for an application.

Uses: This System can be used to create accurate, trustworthy solder joints in high volume, production applications. It allows for more hands-free operations and is used very extensively in automotive parts rebuilding and salvage operations. Uses include but are not limited to, soldering bus bars, lugs starter and alternator leads, battery cables and similar electrical work.

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

Duty Cycle: The Power Unit has been rated to operate at a 50% maximum duty cycle. Do not operate beyond this rating.

WARNING: THERE ARE NO USER SERVICEABLE PARTS INSIDE OF THE POWER UNIT. DO NOT ATTEMPT TO OPEN THE POWER UNIT HOUSING FOR ANY REASON, DUE TO THE RISK OF ELECTRICAL SHOCK. ELEMENTS CAN GENERATE A SIGNIFICANT AMOUNT OF HEAT WHEN POWER IS APPLIED. USE WITH CAUTION TO AVOID BURNS, FIRE OR OTHER POTENTIAL DAMAGE. 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

1,100 Watts (5.8 VAC) of Power with 23 unique settings provides the maximum output for handpieces that utilize tapered pin connection styles.

Dual 1/2" Probe-Style Panel attachment eliminates operator fatigue associated with holding a handpiece.

Copper-coated carbon electrodes can be easily notched/shaped, 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.