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The Model 10541 is a tweezer-style hand tool designed to provide intense localized heat, to create accurate and trustworthy solder joints in regular, small or even fairly delicate soldering applications.

This hand tool is supplied with two .078" diameter copper-clad stainless steel electrodes. It features a 4' (1.22m) 14-2 HPN neoprene cable with taper pin quick connect terminals for connection to American Beauty power units (push in, turning clockwise until snug). The 10541 hand tool is extremely lightweight (4 oz.) and has padded handles for operator comfort.



Model 10541

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 locally to the handpiece. 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.

The Model 10541 hand tool was developed for use on soldering applications, like small military connectors, wire terminations, through-hole PCB components, attaching connector pins to fiber optic leads, or other connections of a similar size. It is ideally suited for micro-miniature setups, wire processing and small components and connections. Fast, repetitive joint soldering on terminals, BNC connectors and similar-sized applications are easy with this hand tool and its resistance heat can be applied to prototyping, R&D and even to high volume production soldering applications. The .078" copper-clad stainless steel electrodes may be bent, shaped, or notched for special applications.

Specifications:

- 5" (12.7cm) total length, 4' cord
- Copper-clad, stainless steel electrodes, .078" (1.98mm) diameter
- Electrodes may be formed, notched, or ground to fit specific applications
- Taper pin connection style
- Weight: 0.5 pounds (0.23 kgs)

The following American Beauty Power Units may be used with these handpieces:

Model 105A3 (100 Watt)

Model 105A12 (250 Watt, use at lower range of available output)

Replacement electrodes are available in a package of 6:

Model 10542

Copper-clad stainless steel electrodes (.078")

The use of a footswitch (**Model 10519**) for ease of heating time adjustment and control is recommended.

NOTE: Always keep electrodes clean and free from burnt flux and solder residue by dressing them with an emery cloth, a fine file or a small wire brush. Replace electrodes that have become too short or badly burnt.

WARNING: Electrodes generate significant heat when power is applied. Use with caution to avoid burns, fire or other 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.

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