

## Model 105133 Micro-Tweezer Handpiece

### User Information and Instruction Sheet

**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:** Tweezer style dual stainless steel electrode handpieces. Supplied with two stainless steel electrodes for small and micro soldering applications. Each has a four-foot (1.22m) neoprene cable (10541 has 14-2 HPN, 105133 has 18-2 HPN) with taper pin quick connect terminals for connection to UHPS power units (push in turning clockwise until snug) and padded handles for operator comfort. Model 10541 is similar to the Model 10578 Dual Metal Electrode Handpiece but has a tweezer-type design that provides the operator with the ability to grip several parts at once while heating. Model 105133 is similar, except for its needle-sharp .040" (1.02mm) electrodes designed to make contact in the smallest areas.

**Uses:** These handpieces provide instant localized heat that can be applied in prototyping, R&D and production applications. They can be used to create accurate, trustworthy solder joints in extremely delicate soldering applications. Model 10541 is designed for perfect contact and control on micro-miniature setups. Model 105133 is designed for work on wire 22-gauge and finer. Both handpieces provide fast, repetitive joint soldering on terminals, BNC connectors and similar-sized applications. Dual metal electrodes may be bent, shaped or notched for special applications

**Recommended Power Units:** The following American Beauty® UHPS power units may be used with these handpieces: Model 105A3 (100 Watt); Model 105A12 (250 Watt)(use lower settings for 105133). The use of a footswitch (Model 10519) for ease of heating time adjustment and control is recommended.

**Replacement Electrodes/Elements:** Model [10541](#): Model [10542](#) Dual Metal Electrodes (.078" X 1-1/2"(1.98mm X 38.1mm))(Pk/ 6)

Model [105133](#): Model [105134](#) Dual Metal Electrodes (.040" X 1/2" (1.02mm))(Pkg. of 6)

**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. .

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**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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