

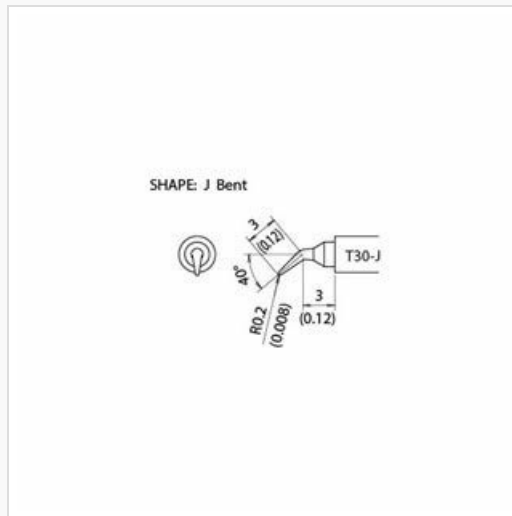
Hakko T30-J

Hakko T30-J Micro Bent Tip User Manual

Model: T30-J

1. PRODUCT OVERVIEW

The Hakko T30-J is a specialized micro bent soldering tip designed for precision soldering applications. Its unique J-bent shape allows for access to tight spaces and intricate components, making it ideal for fine pitch soldering and rework. This tip is engineered for optimal heat transfer and durability when used with compatible Hakko soldering stations.



This diagram illustrates the precise dimensions and shape of the Hakko T30-J Micro Bent Tip. It shows a J-bent shape with a tip radius of R0.2mm (0.008 inches), a 40-degree bend, and specific lengths of 3mm (0.12 inches) for different sections of the tip, along with the model number T30-J.

2. SETUP

Before using your Hakko T30-J tip, ensure your soldering station is properly set up and calibrated. This tip is designed for use with Hakko soldering irons that support T30 series tips.

1. **Power Off:** Always ensure your soldering station is powered off and unplugged before installing or removing tips.
2. **Tip Installation:** Carefully insert the T30-J tip into the soldering iron's heating element assembly. Ensure it is fully seated to allow for proper heat transfer.
3. **Power On:** Plug in and power on your soldering station. Allow the iron to reach the desired operating

temperature.

4. **Initial Tinning:** Once the tip reaches temperature, immediately apply a small amount of solder to the working end of the tip. This process, known as tinning, protects the tip from oxidation and ensures efficient heat transfer to the solder joint.

3. OPERATING INSTRUCTIONS

The T30-J micro bent tip is ideal for precision work. Follow these guidelines for effective soldering:

- **Temperature Setting:** Set your soldering station to the appropriate temperature for the solder alloy and components you are working with. Refer to your solder's specifications for recommended temperatures.
- **Tip Contact:** Apply the bent portion of the tip to both the component lead and the PCB pad simultaneously. Ensure good thermal contact.
- **Solder Application:** Feed solder onto the junction of the tip, component lead, and pad. Allow the solder to flow and form a shiny, concave fillet.
- **Dwell Time:** Minimize the time the tip is in contact with the joint to prevent overheating components, especially with delicate micro-components.
- **Tip Cleaning:** Regularly clean the tip on a damp sponge or brass wool during operation to remove excess solder and flux residue.

4. MAINTENANCE

Proper maintenance extends the life of your Hakko T30-J tip and ensures consistent performance.

- **Regular Cleaning:** Clean the tip frequently during use with a damp cellulose sponge or brass wool. Avoid abrasive materials that can damage the plating.
- **Re-tinning:** Always re-tin the tip with fresh solder before storing it or when pausing work for more than a few minutes. This protects the tip from oxidation.
- **Oxidation Removal:** If the tip becomes oxidized (dark and non-wetting), gently rub it on a tip cleaner paste or a fine abrasive pad specifically designed for soldering tips, then immediately re-tin.
- **Storage:** Store tips in a dry, non-corrosive environment. Avoid leaving the iron powered on for extended periods when not in use.

5. TROUBLESHOOTING

If you encounter issues with your Hakko T30-J tip, consider the following common problems and solutions:

- **Tip Not Heating:**
 - Check if the tip is fully inserted into the heating element.
 - Verify the soldering station is powered on and set to a suitable temperature.
 - Inspect the heating element and iron for damage.
- **Solder Not Adhering (Non-Wetting Tip):**
 - The tip may be oxidized. Clean and re-tin the tip immediately.
 - Ensure you are using good quality solder with sufficient flux.
 - Increase the tip temperature slightly if it's too low for the solder.

- **Tip Life is Short:**
 - Ensure proper tinning before and after use.
 - Avoid excessive tip temperatures.
 - Use a proper cleaning method (damp sponge or brass wool, not abrasive files).

6. SPECIFICATIONS

Attribute	Value
Model Number	T30-J
Manufacturer	Hakko
Item Weight	1 Pound
Tip Shape	Micro Bent (J-shape)
Tip Radius	R0.2mm (0.008 inches)
Bend Angle	40°
Tip Lengths	6mm, 3mm x 3mm (0.12 inches)



7. WARRANTY & SUPPORT

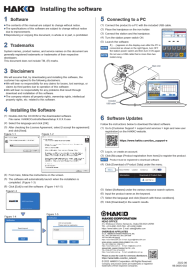



For information regarding warranty coverage, technical support, or service for your Hakko T30-J tip, please refer to the official Hakko website or contact your authorized Hakko distributor. Keep your purchase receipt for warranty claims.

For additional details or inquiries, please do not hesitate to contact Hakko customer service.

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Related Documents - T30-J

	<p>HAKKO 456 Soldering Iron Service Manual and Replacement Guide</p> <p>Detailed instructions for disassembling, replacing the heating element, and reassembling the HAKKO 456 soldering iron, including safety warnings and specifications for HAKKO 455 and 456 models.</p>
	<p>HAKKO 999-252 Wireless Remote Control Instruction Manual</p> <p>Instruction manual for the HAKKO 999-252 Wireless Remote Control system, detailing setup, usage, battery replacement, and specifications for controlling the HAKKO FA-430 Fume Extraction System.</p>

	<p>HAKKO FX-805 Control Software Installation and Operation Guide</p> <p>This guide provides detailed instructions for installing and operating the HAKKO FX-805 Control Software. It covers software installation steps, connecting the FX-805 station to a PC, software updates, and a comprehensive overview of the software's features including temperature control, calibration, and parameter settings.</p>
	<p>HAKKO 851 SMD Rework System Instruction Manual</p> <p>Comprehensive instruction manual for the HAKKO 851 SMD Rework System, covering specifications, safety warnings, operating procedures for soldering and desoldering, heating element replacement, parts lists, and temperature distribution charts.</p>
	<p>HAKKO FX-301B Soldering Station Instruction Manual</p> <p>Comprehensive instruction manual for the HAKKO FX-301B soldering station, covering specifications, safety instructions, operation, maintenance, and troubleshooting.</p>
	<p>HAKKO HJ4000 Split Vision Fixture Instruction Manual</p> <p>Comprehensive instruction manual for the HAKKO HJ4000 Split Vision Fixture, detailing setup, operation, optics adjustment, maintenance, and support for precise electronic component rework.</p>