## Hyper Tough 889526125509

# Hyper Tough 30-WATT Soldering Iron User Manual

Model: 889526125509

## Important Safety Guidelines

Please read and understand all safety instructions before operating the Hyper Tough 30-WATT Soldering Iron. Failure to follow these guidelines may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the soldering iron is connected to a properly grounded outlet. Do not use in wet conditions or near flammable liquids or gases. Always unplug the iron when not in use or before changing tips.
- **Heat Hazard:** The soldering iron tip reaches very high temperatures. Avoid direct contact with skin or flammable materials. Use the included cool-touch holder to safely rest the iron when not actively soldering. Allow the iron to cool completely before storing.
- **Ventilation:** Soldering produces fumes. Always work in a well-ventilated area or use a fume extractor to avoid inhaling harmful fumes.
- **Eye Protection:** Always wear safety glasses or goggles to protect your eyes from solder splashes or flying debris.
- **Proper Handling:** Hold the soldering iron by its handle only. Do not carry the iron by its cord. Keep the cord away from hot surfaces.
- **Children and Pets:** Keep the soldering iron and all related materials out of reach of children and pets.

## Product Overview

The Hyper Tough 30-WATT Soldering Iron kit is designed for various electronic assembly and repair tasks. It includes essential components for immediate use.

### Components Included:

- Soldering Iron (30 Watts, 120 Volts, 60 Hz, US Plug)
- 0.5 oz (14.2 g) Rosin Core Solder

- Cool-Touch Holder for easy handling and control
- Two 5/32 inch (4 mm) Diameter Tips




Image: The complete Hyper Tough 30-WATT Soldering Iron kit, showing the soldering iron, power cord, rosin core solder, cool-touch holder, and an additional soldering tip.

## Setup

Follow these steps to prepare your soldering iron for use.

### 1. Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the soldering iron and accessories for any signs of damage. Do not use if any part is damaged.

### 2. Attaching the Soldering Tip

The soldering iron comes with a tip pre-installed. If you need to change it, ensure the iron is unplugged and cool. Loosen the screw on the barrel of the iron, carefully remove the current tip, insert the desired tip, and tighten the screw to secure it. Do not overtighten.

### 3. Positioning the Cool-Touch Holder

Place the cool-touch holder on a stable, heat-resistant surface near your work area. This holder is essential for safely resting the hot soldering iron when not in use.



Image: The Hyper Tough soldering iron securely placed on its cool-touch holder, demonstrating safe resting position.

### 4. Power Connection

Plug the soldering iron into a standard 120V AC grounded electrical outlet. The iron will begin to heat up immediately.

## Operating Instructions

This section provides guidance on how to effectively use your soldering iron.

### 1. Pre-heating and Tinning the Tip

Allow the soldering iron to heat for approximately 2-3 minutes until it reaches operating temperature. Once hot, apply a small amount of rosin core solder to the tip. This process, known as "tinning," helps protect the tip from oxidation and improves heat transfer.

### 2. Soldering Process

1. Ensure the components to be soldered are clean and free of grease or dirt.
2. Place the hot soldering iron tip against both the component lead and the solder pad simultaneously.
3. After a second or two, apply the rosin core solder to the junction of the tip and the components. The heat from the iron will melt the solder, allowing it to flow smoothly around the joint.
4. Remove the solder wire first, then remove the soldering iron. Hold the components still for a few seconds while the solder cools and solidifies, forming a strong, shiny joint.
5. Avoid applying too much solder, which can create "cold" joints or bridges between pads.

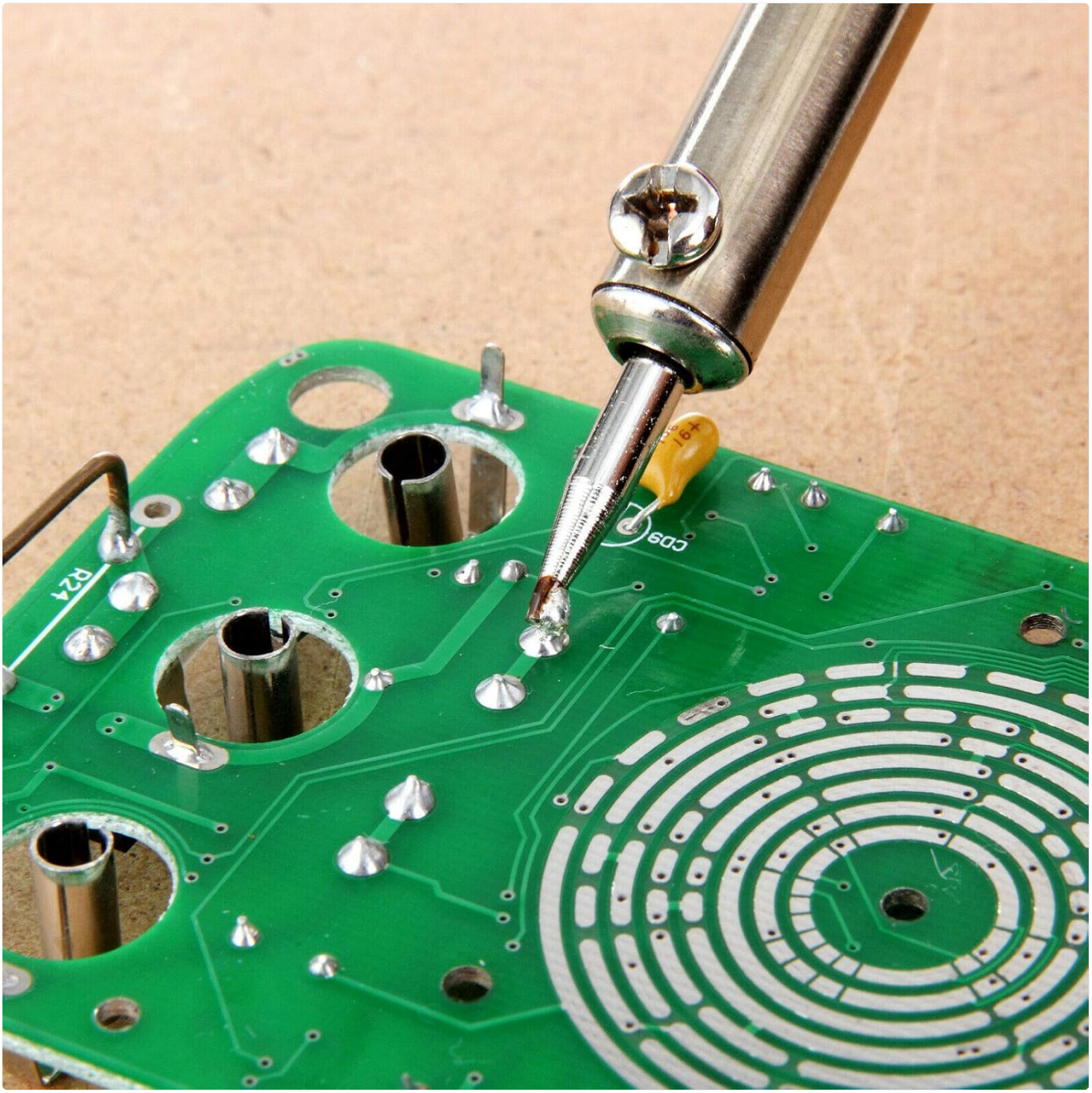



Image: A close-up view of the soldering iron tip making contact with a circuit board, demonstrating the application of solder to create an electrical connection.



Image: The soldering iron tip heating and melting rosin core solder wire, illustrating the proper technique for feeding solder into a joint.

### 3. Cooling Down

When finished soldering, unplug the iron from the power outlet. Place the hot iron back on its cool-touch holder and allow it to cool down completely before storing. Do not touch the tip until it is cold.

## Maintenance

Proper maintenance ensures the longevity and performance of your soldering iron.

### Tip Cleaning

Regularly clean the soldering tip to remove excess solder and oxidation. While the iron is hot, wipe the tip on a damp sponge or brass wool. This helps maintain good heat transfer and extends tip life. Re-tin the tip after cleaning.

### Storage

Once the soldering iron has completely cooled, store it in a dry, safe place, away from dust and moisture. Keep the power cord neatly coiled to prevent damage.

## Troubleshooting

This section addresses common issues you might encounter with your soldering iron.

| Problem | Possible Cause | Solution |
|---|---|---|
| Iron not heating up. | Not plugged in; faulty outlet; internal element failure. | Check power connection and outlet. If still not heating, the iron may need replacement. |
| Solder not melting easily. | Tip is oxidized or dirty; insufficient heat transfer. | Clean and re-tin the soldering tip. Ensure the iron has fully pre-heated. |
| Solder forms cold, dull joints. | Insufficient heat; components moved during cooling. | Ensure the iron is hot enough. Apply heat to both components. Hold components still until solder solidifies. |
| Excessive smoke/fumes. | Normal rosin flux fumes; poor ventilation. | Ensure adequate ventilation in your work area. Consider a fume extractor. |

## Specifications

Detailed technical specifications for the Hyper Tough 30-WATT Soldering Iron.

| | |
|---|---|
| **Brand** | Hyper Tough |
| **Model Number** | 889526125509 |
| **Wattage** | 30 Watts |
| **Power Source** | Corded Electric (120 Volts, 60 Hz, US Plug) |
| **Specific Uses** | Residential Use, Electronics Assembly |
| **Special Feature** | Heat Resistance Handles |
| **Included Components** | Rosin Core Solder, Soldering Iron, Cool-Touch Holder, Soldering Iron Tips |
| **Handle Material** | Plastic |
| **Style** | Pencil |
| **Head Style** | Screwdriver |
| **Material** | Copper (tip) |
| **Item Weight** | 7 ounces |
| **Package Dimensions** | 12.83 x 3.98 x 1.73 inches |
| **UPC** | 889526125509 |

| | |
|---|---|
| **Manufacturer** | HyperTough |

## Warranty and Support

For warranty information or technical support regarding your Hyper Tough 30-WATT Soldering Iron, please refer to the product packaging or contact Hyper Tough customer service directly. Keep your purchase receipt as proof of purchase.
For further assistance, you may visit the official Hyper Tough website or contact their support line. Specific contact details are typically provided with the product documentation.

© 2024 Hyper Tough. All rights reserved.