Toolour SGY005

Toolour Soldering Gun Kit User Manual

Model: SGY005 | Brand: Toolour

Your comprehensive guide to operating and maintaining your Toolour Soldering Gun Kit.

1. Introduction

The Toolour 5-in-1 Soldering Gun Kit is designed for electronic desoldering, rework, PCB repair, and various home DIY soldering tasks. This kit provides an efficient and reliable solution for connecting components with its automatic solder feeding mechanism and internal heat design. This manual provides detailed instructions for the safe and effective use, maintenance, and troubleshooting of your soldering gun kit.



Image 1.1: The complete Toolour Soldering Gun Kit, including the soldering gun, desoldering pump, solder wire, and two tweezers.

2. Product Components

Your Toolour Soldering Gun Kit includes the following items:

- 1 x Automatic Solder Feeding Soldering Gun
- 1 x Desoldering Pump
- 1 x Solder Wire Spool
- 2 x Anti-static Tweezers (one straight, one curved)
- 1 x User Manual (this document)



Image 2.1: Included anti-static tweezers, essential for handling delicate electronic components.

3. Setup

3.1. Solder Wire Installation

The soldering gun features an automatic solder feeding mechanism. To install the solder wire:

- Open the side door of the soldering gun handle.
- Place the solder wire spool onto the designated bracket.
- Feed the end of the solder wire through the solder wire inlet until it reaches the feeding mechanism.
- Close the side door. Ensure the solder wire is properly aligned for smooth feeding when the trigger is pressed.



Image 3.1: Proper installation of the solder wire spool onto the bracket and feeding it into the inlet.

2. ### 3.2. Power Connection

   Connect the soldering gun's power cord to a standard 110V AC electrical outlet. Ensure the power switch on the gun is in the "OFF" position before plugging it in.

3. ### 3.3. Initial Heating

   Once plugged in, switch the power button to "ON". The internal ceramic heating element allows the soldering iron to heat up quickly, typically within 2-4 minutes. The thermostat range is 200°C - 450°C. Allow the iron to reach the desired temperature before use.



Image 3.2: The internal heating element ensures rapid heat-up times for efficient operation.

4. Operating Instructions

1. ### 4.1. Soldering Operation

   The Toolour soldering gun is designed for convenient one-hand operation:

   - Ensure the soldering iron tip is clean and tinned.
   - Position the soldering gun with the hot tip touching the components to be soldered.
   - Press the trigger to automatically feed solder wire to the tip. Release the trigger to stop feeding.
   - Allow the solder to flow and create a strong joint. Remove the iron once the joint is formed.



Image 4.1: The ergonomic design and one-hand operation feature of the soldering gun.

2. ### 4.2. Desoldering with Pump

   To remove excess solder using the desoldering pump:

   - Press down the plunger of the desoldering pump until it locks.
   - Heat the solder joint to be removed with the soldering iron until the solder melts.
   - Immediately place the tip of the desoldering pump over the molten solder and press the release button to suction the solder.
   - Repeat the process if necessary until all excess solder is removed.



Image 4.2: Step-by-step guide for effective desoldering using the included pump.

5. Maintenance

- ### 5.1. Tip Cleaning

  Regularly clean the soldering iron tip using a damp sponge or brass wool to remove excess solder and oxidation. A clean tip ensures efficient heat transfer and better solder joints.

- ### 5.2. Storage

  Always allow the soldering gun to cool completely before storing. Store the kit in a dry, safe place away from children and flammable materials.

- ### 5.3. Replacing Heating Core

  The natural mica heating core has a long life and can be replaced if needed. It is designed for easy assembly and dismantling.

6. Troubleshooting

Problem	Possible Cause	Solution
Soldering iron not heating up.	Not plugged in; power switch off; faulty heating element.	Ensure power cord is securely plugged in and switch is ON. If still not heating, the heating element may need replacement.
Solder wire not feeding automatically.	Wire jammed; incorrect installation; feeding mechanism issue.	Check for kinks or obstructions in the solder wire path. Re-install the solder wire ensuring it's properly aligned. Inspect the feeding gears for any damage.
Poor solder joints.	Dirty or oxidized tip; insufficient heat; incorrect solder type.	Clean and re-tin the soldering tip. Allow the iron to reach full operating temperature. Ensure you are using appropriate solder for your application.
Desoldering pump not effective.	Improper seal; clogged nozzle; worn plunger.	Ensure the pump tip forms a tight seal around the molten solder. Clean the nozzle regularly. If suction is consistently weak, the pump may need replacement.

7. Specifications

Feature	Detail
Brand	Toolour
Model Number	SGY005
Power Source	Corded Electric
Wattage	60 watts
Voltage	110 Volts
Temperature Range	200°C - 450°C (392°F - 842°F)
Heating Element	Natural Mica Ceramic
Handle Material	High-quality ABS
Item Weight	1.75 Ounces
Item Length	7.4 Inches
UPC	680613761484

8. Warranty and Support

Toolour is committed to 100% customer satisfaction. If you encounter any missing or incorrect accessories, or have any other questions regarding your product, please contact us immediately. We are dedicated to providing the best possible support and will do our utmost to resolve any issues you may experience.
For further assistance, please visit the official Toolour store on Amazon:Toolour Amazon Store.