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Jyving 15-in-1 Adjustable Temperature Electric Soldering Iron Kit 60W

Jyving 15-in-1 Adjustable Temperature Electric Soldering Iron Kit 60W User Manual

Model: 15-in-1 Adjustable Temperature Electric Soldering Iron Kit 60W

1. Product Overview

The Jyving 15-in-1 Adjustable Temperature Electric Soldering Iron Kit is a versatile tool designed for various soldering and rework tasks. This kit includes a 60W electric soldering iron with adjustable temperature control and a range of essential accessories to facilitate efficient and precise work.



Image 1: Contents of the Jyving 15-in-1 Adjustable Temperature Electric Soldering Iron Kit, including the soldering iron, stand, various tips, solder wire, desoldering pump, tweezers, and other accessories.

Kit Contents:

- Adjustable Temperature Electric Soldering Iron (60W)
- Soldering Iron Stand
- Multiple Soldering Tips
- Solder Wire
- Desoldering Pump
- Tweezers
- Wire Stripper/Cutter
- Cleaning Sponge
- Carrying Case
- Other accessories as pictured

2. Safety Information

Read all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always use the soldering iron in a well-ventilated area to avoid inhaling fumes.
- Ensure the soldering iron is placed on a stable, heat-resistant surface, preferably using the provided soldering stand, to prevent accidental burns or fires.
- Avoid touching the hot tip or heating element of the soldering iron. Temperatures can reach several hundred degrees Celsius.
- Keep the soldering iron away from flammable materials.
- When plugging in the soldering iron for the first time, a small amount of smoke may be emitted from the tip. This is normal and will cease after a short period.
- Always unplug the soldering iron when not in use or before performing any maintenance.
- Keep out of reach of children.
- Wear appropriate personal protective equipment, such as safety glasses, to protect against splashes of molten solder.

3. Setup

1. **Unpack the Kit:** Carefully remove all components from the carrying case.
2. **Assemble the Soldering Stand:** Place the soldering iron stand on a stable, heat-resistant surface. Ensure the spring holder is securely attached.
3. **Insert Soldering Tip:** Select the desired soldering tip and securely screw it into the heating element of the soldering iron. Ensure it is tightened but do not overtighten.
4. **Place Soldering Iron:** Rest the soldering iron securely in its stand when not actively being held for use.
5. **Connect Power:** Plug the soldering iron into a suitable 220V power outlet.
6. **Initial Heating:** Upon first use, a small amount of smoke may be observed from the tip. This is normal and will dissipate. Allow the iron to heat up for approximately 1-2 minutes.
7. **Adjust Temperature:** Use the temperature adjustment dial on the handle to set the desired temperature. Start with a lower temperature and increase as needed for your specific soldering task.



Image 2: Illustration of the soldering iron placed in its stand, demonstrating the cleaning of the tip with a sponge, and examples of soldering and desoldering applications.

4. Operating Instructions

4.1. Soldering

1. **Prepare Surfaces:** Ensure the components and PCB pads to be soldered are clean and free of oxidation.
2. **Heat the Joint:** Touch the tip of the heated soldering iron to both the component lead and the PCB pad simultaneously. Hold it there for 1-2 seconds to heat both surfaces.
3. **Apply Solder:** While keeping the iron tip on the joint, touch the solder wire to the heated joint (not directly to the iron tip). The solder should melt and flow smoothly around the joint, forming a shiny, conical connection.
4. **Remove Solder and Iron:** Remove the solder wire first, then lift the soldering iron from the joint. Allow the joint to cool naturally without disturbance.

4.2. Desoldering

1. **Heat the Joint:** Place the hot soldering iron tip onto the solder joint to melt the solder.
2. **Use Desoldering Pump:** Once the solder is molten, quickly place the nozzle of the desoldering pump over the molten solder and activate the pump to suction away the liquid solder.
3. **Repeat if Necessary:** Repeat the process until most of the solder is removed and the component can be safely extracted.

5. Maintenance

- **Tip Cleaning:** Regularly clean the soldering iron tip using the provided damp sponge. This removes oxidation and old solder, ensuring efficient heat transfer and prolonging tip life.
- **Tip Tinning:** After cleaning and before storing, apply a small amount of fresh solder to the tip. This "tins" the tip, protecting it from oxidation.
- **Tip Replacement:** If a tip becomes excessively corroded or damaged, replace it with a new one from the kit. Ensure the iron is unplugged and cooled before changing tips.
- **Storage:** Store the soldering iron and accessories in the provided carrying case in a dry, safe place when not in use.

6. Troubleshooting

- **Iron Not Heating:**
  - Check if the power cord is securely plugged into the outlet.
  - Ensure the power outlet is functional.
  - Verify the temperature dial is not set to the lowest setting.
- **Solder Not Melting or Poor Joints:**
  - Ensure the soldering iron has reached the correct operating temperature.
  - Clean the soldering iron tip thoroughly with a damp sponge and re-tin it.
  - Increase the temperature setting if necessary.
  - Ensure the surfaces to be soldered are clean and free of contaminants.
- **Excessive Smoke:**
  - A small amount of smoke on first use is normal. If persistent or excessive, ensure the tip is clean and properly tinned.
  - Ensure adequate ventilation in your workspace.

7. Specifications

Model	15-in-1 Adjustable Temperature Electric Soldering Iron Kit
Power	60W
Voltage	220V (as per product title)
Material	Plastic and Metal
Dimensions (approx.)	265 x 150 x 45mm
Heating Element	Imported, Quick Heating

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