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› iCrimp Ratchet Wire Crimping Tool Set Instruction Manual

IWISS IWS-30J-Tool-Set

iCrimp Ratchet Wire Crimping Tool Set Instruction Manual

Brand: IWISS | Model: IWS-30J-Tool-Set

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your iCrimp Ratchet Wire Crimping Tool Set. This versatile kit is designed for electricians and DIY enthusiasts, offering precise crimping for various terminal types and efficient wire stripping. Please read this manual thoroughly before operation to ensure proper usage and longevity of your tools.

2. PRODUCT OVERVIEW

The iCrimp Ratchet Wire Crimping Tool Set includes a ratchet crimper frame, five interchangeable jaws, a wire stripper, and a cross screwdriver, all organized in a convenient carrying case. This set is engineered for reliable and repeatable crimps.



Figure 2.1: Complete iCrimp Ratchet Wire Crimping Tool Set in its organized carrying case, showing the crimper, wire stripper, screwdriver, and various interchangeable jaws.

Key Features:

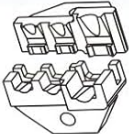
- **Versatile Crimping:** Includes 5 interchangeable jaws for insulated and non-insulated terminals, covering AWG 20-2.
- **Precision Ratchet Mechanism:** Ensures accurate, repeatable crimps with a full-cycle ratchet and adjustable compound action for consistent pressure.
- **Durable Construction:** Engineered with sturdy steel and rust prevention for long-lasting service life.
- **Ergonomic Design:** Features double-colored ergonomic TPR grips for comfortable operation.
- **Integrated Wire Stripper:** Multifunctional stripper and cutter with precisely machined stripping holes for AWG 20-10 wire insulation removal without damage.
- **Quick Release:** Built-in quick release gear for emergency or improper operation.

3. COMPONENTS AND JAW DETAILS

The set comes with a variety of crimping dies to accommodate different wire gauges and terminal types. Understanding each jaw's application is crucial for optimal performance.

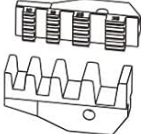
JAW DETAILS





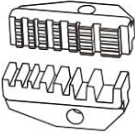
A30J CRIMPING DIES:
for 0.5-6.0mm² (20-10AWG), used for insulated terminals





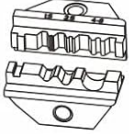
A35WF CRIMPING DIES:
for 10-35mm² (8-2AWG), used for Non-insulated terminals





A26TW CRIMPING DIES:
for 2*0.5-6.0mm² (2*20-10AWG), used for insulated and Non-insulated terminals





A10 CRIMPING DIES:
for 1.5-6.0mm² (16-10AWG), used for Non-insulated terminals





A03BC CRIMPING DIES:
for 0.5-6.0mm² (20-10AWG), used for Non-insulated tabs and receptacles



Figure 3.1: Detailed breakdown of the five interchangeable crimping jaws included in the set, showing their unique profiles and corresponding applications.

Interchangeable Jaw Specifications:

Jaw Type	Capacity (mm ²)	AWG	Application
A30J	0.5-6.0	20-10	Insulated terminals
A35WF	10-35	8-2	Insulated and Non-insulated cable end-sleeves
A26TW	2*0.5-6.0	2*20-10	Insulated and Non-insulated cable end-sleeves
A10	1.5-6.0	16-10	Non-insulated terminals
A03BC	0.5-6.0	20-10	Non-insulated tabs and receptacles

4. SETUP

Installing/Changing Jaws:

The crimping tool features a simple mechanism for changing jaws, allowing for quick adaptation to different terminal types.

1. Identify the two small screws on the side of the crimper head that secure the jaws.
2. Use the included cross screwdriver to loosen and remove these screws.
3. Carefully remove the currently installed jaws.
4. Select the appropriate jaw set for your application (refer to Section 3).
5. Align the new jaws with the crimper head, ensuring they fit snugly into their designated slots.
6. Reinsert and tighten the two screws firmly to secure the new jaws in place. Do not overtighten.



Constructed of sturdy steel with high rust resistance, brings long-lasting service life.

Ratcheting mechanism makes the operation effortless and built-in releasement for improper operation.



Figure 4.1: The robust construction and ratcheting mechanism of the crimping tool, which ensures consistent and secure crimps.



Adjustable compression wheel bring a high compatibility.



Built-in quick release gear for emergency.



Double colored ergonomic grip made of TPR ensures comfortable operating experience.



Figure 4.2: Key features of the crimping tool, including the adjustable compression wheel for high compatibility, built-in quick release, and comfortable ergonomic grips.

5. OPERATING INSTRUCTIONS

Using the Ratchet Crimping Tool:

The ratchet mechanism ensures a complete crimp cycle for reliable connections.

1. Select the correct jaw set for your terminal and wire gauge.
2. Insert the terminal into the appropriate slot in the crimping jaws.
3. Gently squeeze the handles until the ratchet mechanism holds the terminal in place.
4. Insert the stripped wire into the terminal.
5. Continue squeezing the handles firmly until the ratchet mechanism fully cycles and releases, indicating a complete crimp.
6. Remove the crimped terminal.

WELL POSITIONED JAWS



Avoid the burr which resulted from the machining process will bring damage to the terminals.

Figure 5.1: The precision-engineered jaws are designed to create clean crimps and prevent burrs that could damage terminals.

Using the Wire Stripper:

The included wire stripper is designed for efficient and damage-free insulation removal.

1. Identify the correct stripping hole on the wire stripper for your wire's AWG (American Wire Gauge).
2. Insert the wire into the corresponding stripping hole.
3. Close the handles firmly, applying even pressure. The precisely machined hole will cut through the insulation.
4. Pull the wire stripper away from the wire to remove the insulation, leaving the conductor exposed.
5. Use the cutting edge near the pivot for cutting wires if needed.



Figure 5.2: The multifunctional wire stripper allows for precise insulation removal, twisting, and cutting of wires.

6. MAINTENANCE

- **Cleaning:** After each use, wipe down the tools with a clean, dry cloth to remove any dirt, dust, or debris. For stubborn grime, a mild cleaner can be used, ensuring the tools are thoroughly dried afterward.
- **Lubrication:** Periodically apply a light machine oil to the pivot points and moving parts of the crimping tool and wire stripper to ensure smooth operation and prevent rust.
- **Storage:** Store the tool set in its original carrying case in a dry environment to protect it from moisture and physical damage. Ensure all jaws and the screwdriver are securely placed in their designated compartments.
- **Inspection:** Regularly inspect the jaws for wear or damage. Worn jaws can lead to improper crimps. Replace damaged components as necessary.

7. TROUBLESHOOTING

- **Improper Crimps (Too Loose/Too Tight):**

- Ensure you are using the correct jaw set for the specific terminal and wire gauge.
- Verify that the wire is fully inserted into the terminal before crimping.
- Check the adjustable compression wheel on the crimper (Figure 4.2). Adjust it to increase or decrease crimping force as needed.
- Ensure the ratchet mechanism completes its full cycle. If it's not, check for obstructions or excessive wear.

- **Difficulty Releasing Crimped Terminal:**

- The tool has a built-in quick release gear (Figure 4.2). If the crimp is stuck or the tool doesn't release automatically, activate the quick release lever.
- Ensure the jaws are clean and free of debris that might impede release.

- **Wire Stripper Not Cutting/Stripping Cleanly:**

- Ensure you are using the correct stripping hole for the wire's AWG.
- Inspect the stripper blades for dullness or damage.
- Apply firm, even pressure when stripping.

8. SPECIFICATIONS

- **Brand:** IWISS
- **Model Number:** IWS-30J-Tool-Set
- **Color:** Grey, Orange
- **Item Weight:** 2.2 Pounds
- **Handle Material:** Alloy Steel
- **Grip Type:** Ergonomic
- **Product Dimensions:** 7.87 x 3.94 x 3.15 inches
- **Power Source:** Hand Powered
- **Material:** Metal
- **UPC:** 709619250409

9. WARRANTY AND SUPPORT

Specific warranty details for the iCrimp Ratchet Wire Crimping Tool Set are not provided within this manual. For information regarding product warranty, returns, or technical support, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt as proof of purchase may be required for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question