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> IWISS Quick Change Ratcheting Crimper Tool Kit SN-PM Instruction Manual

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Model: SN-PM

1. PRODUCT OVERVIEW

The IWISS SN-PM Quick Change Ratcheting Crimper Tool Kit is an all-in-one solution designed for various wire terminal crimping applications. This comprehensive kit includes a compact ratcheting crimper, five quick-change die sets, and a wire stripper, all organized within a durable storage case. It is suitable for electrical wiring projects in automotive, electronics, RV refit, RC race car, and off-grid applications.

Included Components:

- SN Series Compact Ratcheting Crimper
- 5 Quick Change Die Sets (for heat shrink, insulated/non-insulated terminals, open barrel, wire ferrules, IWS4 solar terminals)
- Wire Stripper (10-22 AWG)
- Durable Plastic Molded Storage Case



Figure 1.1: The complete IWISS SN-PM Quick Change Ratcheting Crimper Tool Kit, displayed open in its storage case.



- 1** Wire Stripper
- 2** Crimping Jaws
- 3** Quick Change Crimper

Figure 1.2: Key components of the kit, including the wire stripper, interchangeable crimping jaws, and the quick-change crimper tool.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the IWISS SN-PM crimper tool kit:

- Wear appropriate personal protective equipment, including safety glasses, to protect against flying debris.
- Ensure the tool is clean and in good working condition before each use.
- Do not use the tool for purposes other than its intended use (crimping and wire stripping).
- Keep hands and fingers clear of the crimping jaws during operation to prevent pinching.
- Disconnect power from electrical systems before working on them.
- Store the tool kit in its case in a dry, secure location, out of reach of children.

3. SETUP AND DIE CHANGE

3.1 Identifying Die Sets

The kit includes five distinct quick-change die sets, each designed for specific terminal types and wire gauges. Refer to the markings on each die set for compatibility.



Figure 3.1: The five quick-change die sets, each marked for specific terminal types and wire sizes.

3.2 Changing Die Sets

The IWISS SN-PM crimper features a quick-change mechanism for easy die set replacement:

1. Ensure the crimper handles are fully open.
2. Locate the small lever or button on the side of the crimper head.
3. Push the lever/button to release the installed die set.
4. Slide the old die set out.
5. Align the desired new die set with the slots on the crimper head.
6. Slide the new die set into place until it clicks securely. Ensure it is fully seated and locked before use.

QUICK CHANGE

IN THE DIRECTION OF ARROW

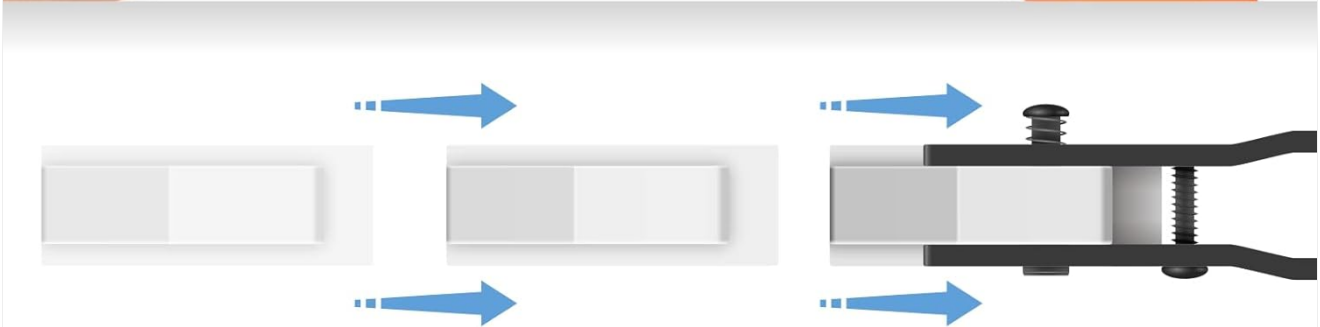
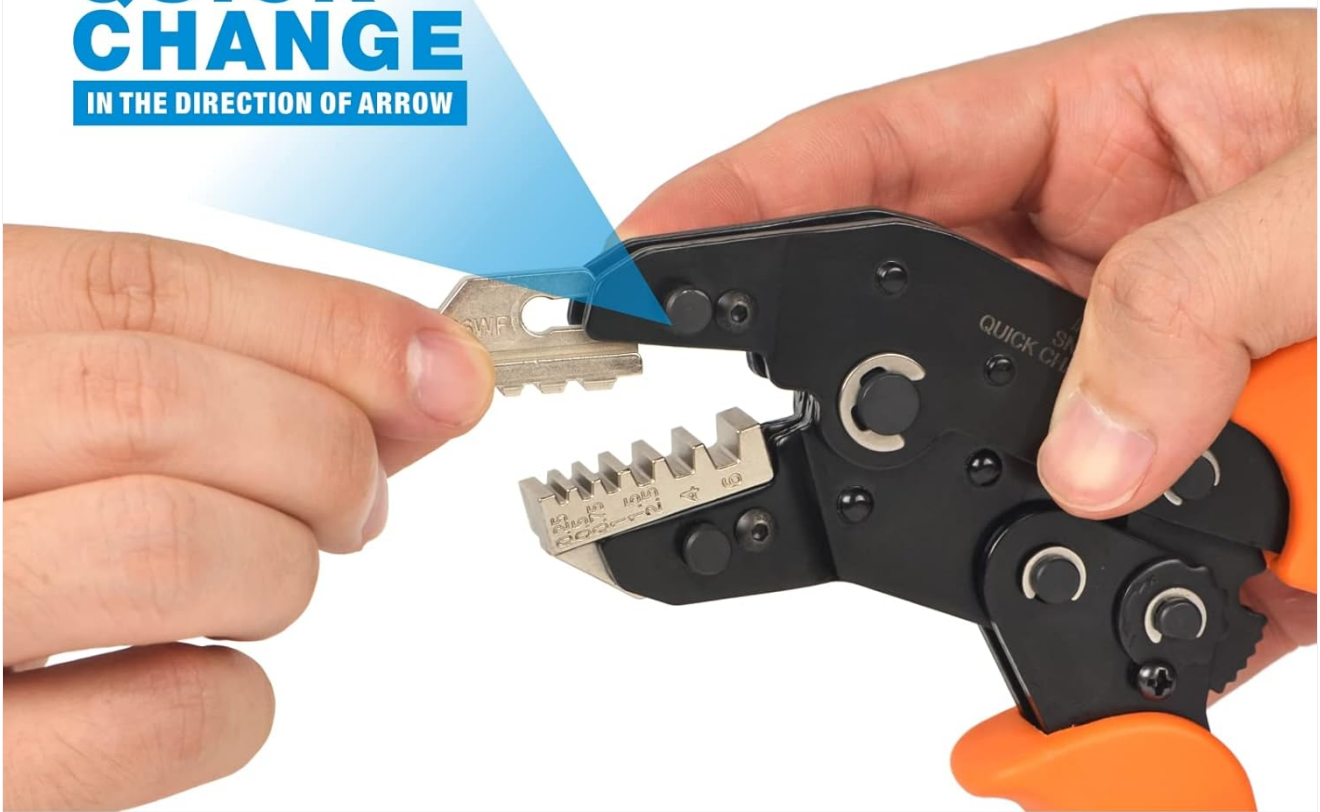


Figure 3.2: Illustrates the quick-change mechanism for swapping die sets on the crimper tool.

4. OPERATING INSTRUCTIONS

4.1 Wire Stripping

Use the included wire stripper for preparing wires:

1. Identify the correct gauge hole on the stripper for your wire (10-22 AWG).
2. Insert the wire into the corresponding hole.
3. Close the handles firmly to cut through the insulation.
4. Pull the stripper away from the wire to remove the insulation, exposing the conductor.

4.2 Crimping Procedure

Follow these steps for effective crimping:

1. **Select the Correct Die Set:** Choose the appropriate die set for your specific terminal type and wire gauge. Refer to the die set markings and the terminal compatibility chart below.
2. **Prepare the Wire:** Strip the wire insulation to the correct length, ensuring enough bare wire to fully engage with the terminal's crimp barrel.

3. **Insert Terminal:** Place the terminal into the selected crimping jaw, ensuring it is properly seated and aligned.
4. **Insert Wire:** Insert the stripped wire into the terminal's crimp barrel.
5. **Crimp:** Squeeze the crimper handles firmly and completely until the ratchet mechanism releases. This ensures a full and secure crimp.
6. **Inspect:** Remove the crimped terminal and inspect it for a secure connection. The wire should be firmly held, and the insulation crimp (if applicable) should secure the wire's insulation.

INSTRUCTION

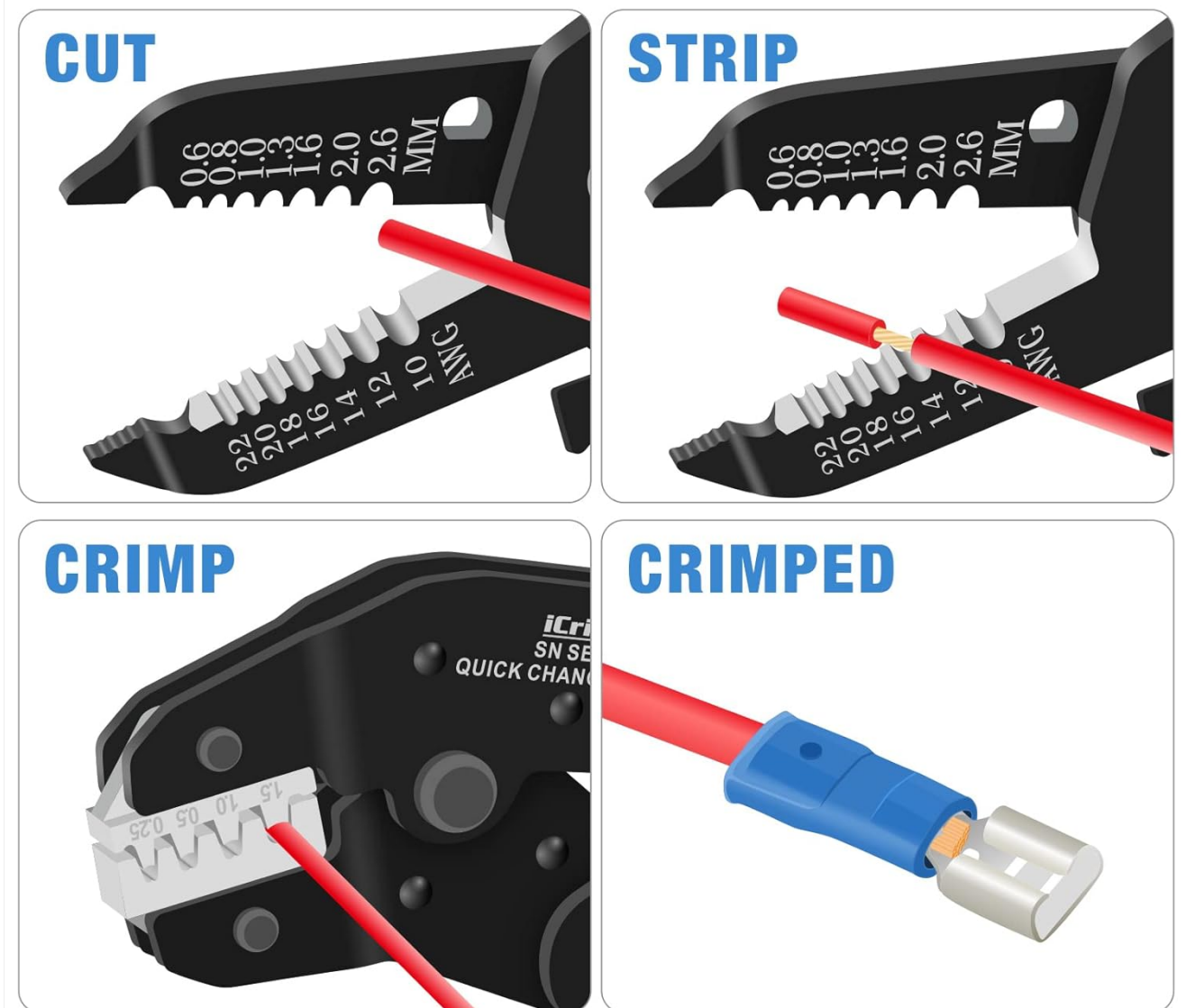


Figure 4.1: Visual guide demonstrating the process of cutting, stripping, and crimping a wire with the tool kit.

4.3 Die Set Compatibility Chart

This chart provides guidance on which die set to use for various terminal types and wire gauges:



Figure 4.2: Detailed view of each die set (A-2546B, AX-6, A-58B, A-02C, A-06WF) and examples of the crimped terminals they produce.

A-2546B: For Solar MC4 Connectors (2.5/4/6mm², AWG 14-10)

AX-6: For Non-Insulated Terminals (0.5-6mm², AWG 20-10)

A-58B: For Open Barrel Terminals (0.25-1.5mm², AWG 24-16)

A-02C: For Insulated Terminals (0.25-2.5mm², AWG 24-14)

A-06WF: For End Sleeve Ferrules (0.25-6mm², AWG 24-10)

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your tool kit:

- **Cleaning:** After each use, wipe down the crimper and die sets with a clean, dry cloth to remove any debris or residue. For stubborn grime, a mild solvent can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light machine oil to the pivot points and ratchet mechanism of the crimper to ensure smooth operation.
- **Storage:** Always store the crimper, die sets, and wire stripper in the provided durable plastic molded storage case. This protects the tools from damage, dust, and moisture. Ensure all components are securely placed in their designated slots to prevent movement and potential damage.
- **Inspection:** Regularly inspect die sets for wear or damage. Worn dies can lead to poor crimps. Replace damaged components as necessary.

6. TROUBLESHOOTING

If you encounter issues while using the IWISS SN-PM crimper tool kit, consider the following:

- **Poor Crimp Quality:**
 - Ensure the correct die set is selected for the terminal and wire gauge.
 - Verify the wire is stripped to the correct length and fully inserted into the terminal.
 - Confirm the crimper handles are squeezed completely until the ratchet releases.
 - Inspect the die set for wear or damage; replace if necessary.
- **Terminal Slipping During Crimp:**
 - Ensure the terminal is correctly oriented and fully seated in the die set before crimping.
 - Check for any debris in the die set that might prevent proper seating.
- **Wire Stripper Malfunction:**
 - If the spring detaches, reattach it carefully.
 - Ensure the correct gauge hole is used for the wire to prevent damage to the wire or the stripper blades.
- **Difficulty Releasing Ratchet:**
 - Ensure the crimper is fully closed for the ratchet to release. If partially closed, apply slight pressure to close it fully, then release.
 - Lubricate the ratchet mechanism if it feels stiff.
- **Die Sets Not Fitting in Case Slots:**
 - Ensure each die set is placed in its correct, designated slot within the storage case.
 - If a die set is difficult to remove, use needle-nose pliers carefully to retrieve it.

7. SPECIFICATIONS

Feature	Specification
Brand	IWISS
Model Number	SN-PM
Crimper Die Changing	Push-in Quick Change
Crimper Grip Material	TRP+PP (Nylon, Plastic)
Crimper Weight	0.88 lbs (approx.)
Crimper Length	7.6 inches (approx.)
Wire Stripper Model	FSA-0626
Wire Stripper Capacity	AWG 22-10 (Copper and Aluminum)
Wire Stripper Weight	0.35 lbs (approx.)
Wire Stripper Length	7.09 inches (approx.)
Product Dimensions (Case)	11.42"L x 7.87"W (approx.)
Total Item Weight	2 Pounds (approx.)
Power Source	Manual

8. WARRANTY AND SUPPORT

For warranty information, product support, or to inquire about replacement parts, please contact IWISS directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.