

IWISS IWS-FACL

IWISS IWS-FACL Angle Head PEX Crimping Tool Kit

User Manual

Model: IWS-FACL | Brand: IWISS

1. INTRODUCTION

This manual provides instructions for the safe and effective use of the IWISS IWS-FACL Angle Head PEX Crimping Tool Kit. This kit is designed for creating secure connections with copper crimp rings on PEX pipes, meeting ASTM F1807 standards. Its angle head design facilitates access in tight spaces, making PEX pipe installation more efficient.

2. KIT CONTENTS

The IWISS IWS-FACL kit includes the following components:

- Angle Head PEX Crimping Tool (built-in 1-inch jaw)
- Interchangeable Jaw Set (3/8-inch, 1/2-inch, 3/4-inch)
- PEX Pipe Cutter (Max 1-inch)
- Go/No Go Gauge
- Copper Ring Removal Tool

7 PCS Included In The Box

Interchangeable Jaws



Figure 2.1: All components included in the IWISS IWS-FACL PEX Crimping Tool Kit.

3. SETUP

3.1 Changing Interchangeable Jaws

The crimping tool comes with a built-in 1-inch jaw and includes interchangeable jaws for 3/8, 1/2, and 3/4 inch PEX pipes. Follow these steps to change the jaws:

1. Open the jaws of the crimping tool fully.
2. Hold up the hook mechanism.
3. Lift the fixing pin and remove the currently installed jaw.
4. Lift the fixing pin again and insert the desired size jaw into the tool.
5. Move the hook mechanism back into place to secure the jaw.

HOW TO CHANGE THE JAWS



01

Open the jaws fully.



02

Hold up the hook.



03

Lift up the fixing pin and remove the jaws you don't need.



04

Lift up the fixing pin and push into the jaws with correct size you needed.



05

Move back the hook.



06

Replacement is finished.

Figure 3.1: Steps for changing the interchangeable jaws on the crimping tool.



PRECISE SMOOTH POLISHED JAWS

1-inch built-in jaw and 3/8", 1/2", 3/4", interchangeable jaws processed with WIRE EDM CUTTING, no damage to rings.

Figure 3.2: Detail of the polished jaws and interchangeable sizes.

4. OPERATING INSTRUCTIONS

4.1 Preparing for Crimping

Ensure the PEX pipe is cut cleanly and squarely using the provided PEX pipe cutter. Place the copper crimp ring over the PEX pipe, followed by the PEX fitting. Position the crimp ring approximately 1/8 to 1/4 inch from the end of the PEX pipe, over the barb of the fitting.

4.2 Performing a Crimp

To perform a crimp, position the crimping tool jaws around the copper crimp ring. Ensure the jaws are centered over the ring. Apply firm, steady pressure to the handles until the crimping mechanism fully engages and releases. The angle head design allows for easier access in confined spaces.

ANGLE HEAD **F1807** PEX PIPE CRIMPING

Tool for Copper Rings, Suitable for Tight Spaces

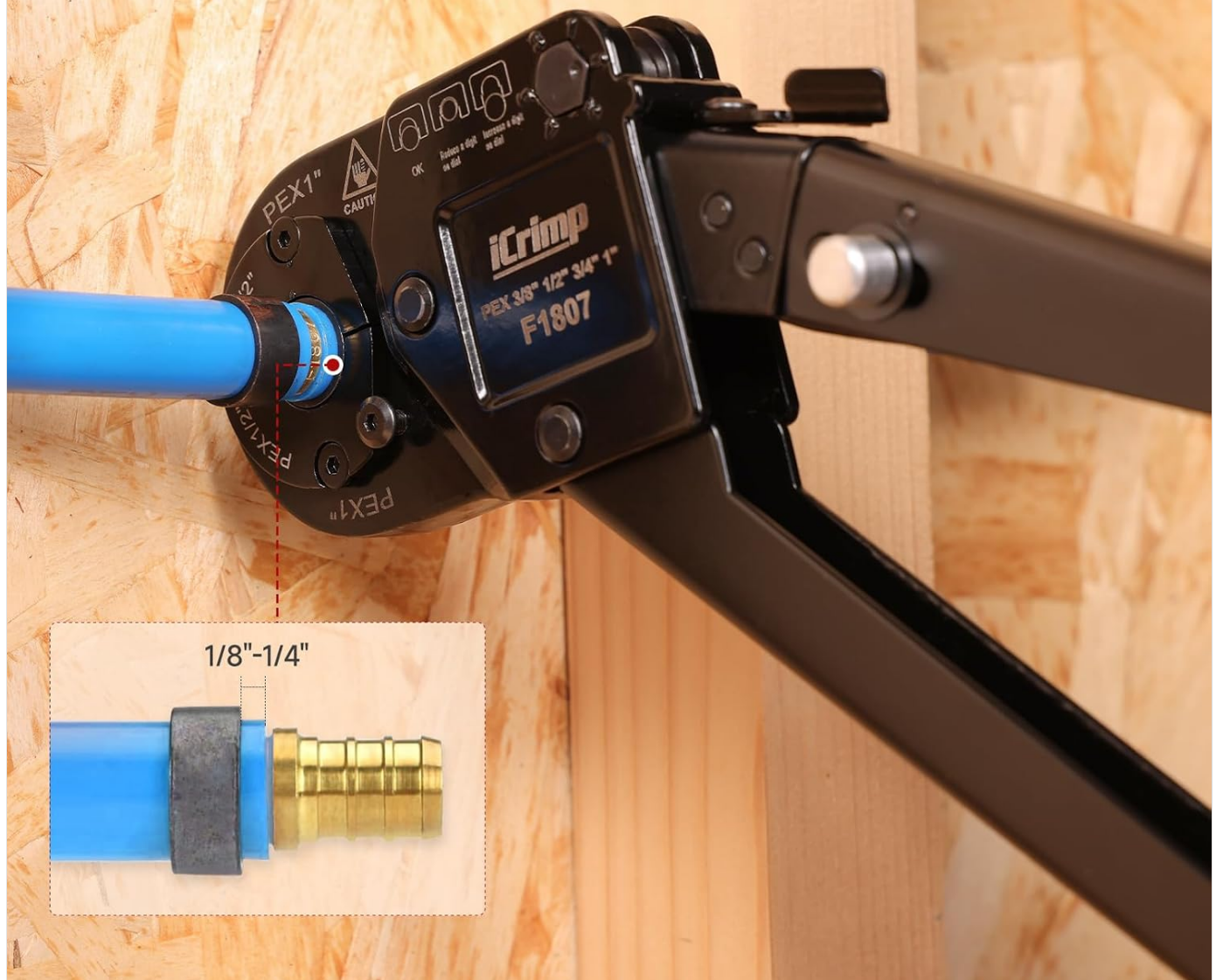


Figure 4.1: Crimping a PEX connection with the angle head tool.

4.3 Opening the Jaws Fully

If the jaws are not fully open, or to reset the tool, follow these steps:

1. Lift the upper handle slightly upward.
2. Pull the upper handle backward to fully open the jaws.



HOW TO OPEN THE JAWS FULLY



1. Lift the upper handle afterward slightly.



2. Pull the upper handle backward.

Figure 4.2: Procedure for fully opening the crimping tool jaws.

4.4 Using the Go/No Go Gauge

After crimping, use the Go/No Go gauge to verify the connection. The gauge ensures the crimp ring has been compressed to the correct diameter for a secure, leak-free seal.

- **Do not** measure bumps on the ring where the jaws meet.
- If the ring slides into the "GO" slot and stops, the crimping is correct.
- If the connection fails to pass the "GO" side of the gauge, the crimp is incorrect and must be redone.

HOW TO USE GO NO GO GAUGE

- Don't measure bumps on the ring where jaws meet
- If the ring slides into the slot and stops in the "GO" range, the crimping is good.
- If the connection is failed to pass the gauge, you can reduce or and numeric value accordingly



Figure 4.3: Proper use of the Go/No Go gauge for crimp verification.

4.5 Official Product Video: Crimping Tool Kit Overview

Your browser does not support the video tag.

Video 4.1: This video provides a comprehensive overview of the IWISS Angle Head PEX Crimping Tool Kit, demonstrating its components and basic operation for 3/8, 1/2, 3/4, and 1-inch PEX connections.

5. MAINTENANCE

5.1 Cleaning and Storage

After each use, clean the crimping tool jaws and other components to remove any debris or residue. Store the tool kit in its original case in a dry environment to prevent corrosion and damage.

5.2 Copper Ring Removal Tool

The included copper ring removal tool is designed to efficiently remove improperly crimped copper rings from PEX connections

without damaging the barb fittings. This allows for correction of errors without replacing the entire fitting.



PEX COPPER RING REMOVAL TOOL

remove improperly crimped copper rings

Figure 5.1: Using the PEX copper ring removal tool.

6. TROUBLESHOOTING

If you encounter issues during operation, consider the following:

- **Incomplete Crimp:** Ensure the correct jaw size is installed for the PEX pipe and crimp ring. Apply full, firm pressure until the tool's mechanism completes its cycle.
- **Leaking Connection:** Verify the crimp with the Go/No Go gauge. If it fails, remove the crimp ring using the removal tool and re-crimp with a new ring. Ensure the PEX pipe is fully seated on the fitting barb before crimping.
- **Difficulty in Tight Spaces:** Utilize the angle head design by positioning the tool appropriately. If space is extremely limited, consider pre-assembling sections where possible.

7. SPECIFICATIONS

Feature	Detail
Brand	IWISS
Model Number	IWS-FACL
Compatible PEX Sizes	3/8, 1/2, 3/4, 1-inch
Specification Met	ASTM F1807
Handle Material	Alloy Steel
Grip Type	Ergonomic
Color	Red and Black
Specific Uses	Automotive, farm machinery, indoor plumbing, tight spaces

8. WARRANTY AND SUPPORT

Specific warranty information for the IWISS IWS-FACL Angle Head PEX Crimping Tool Kit is not provided in this manual. Please refer to the product packaging or contact IWISS customer support for detailed warranty terms and conditions. For technical assistance or inquiries, please visit the official IWISS website or contact their customer service department.

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