

ASTM F 1807 Manual PEX Crimp Tool Instructions

RIDGID® ASTM F 1807 Manual PEX Crimp Tools are designed to mechanically crimp ASTM F 1807 copper crimp rings to the required dimensions for proper installation.

⚠ WARNING Read and understand these instructions and the fitting manufacturer's installation instructions before using this tool. Failure to follow all instructions may result in property damage and/or serious personal injury.

- When used properly, the RIDGID ASTM F 1807 Manual PEX Crimp Tools make pressed connections that conform to ASTM F 1807. Selection of the appropriate materials and joining methods is the responsibility of the system designer and/or installer. Before any installation is attempted, careful evaluation of the specific service environment, including chemical environment and service temperature, should be completed. Consult crimp fitting system manufacturer for selection information.
- Only use RIDGID ASTM F 1807 Manual PEX Crimp Tools when specified by the fitting manufacturer for use with their system. Use of the crimp tool for other applications may result in property damage and/or serious personal injury.

- Do not use handle extensions to increase leverage. If excessive force is required to operate the tool, check tool adjustment.
- Always wear safety glasses.

SAVE THESE INSTRUCTIONS!

Inspecting The Crimping Tool Before Use

- Inspect the crimp profile of the tool daily. If rusty, dirty or if there is evidence of fitting material build up in the crimp profile, clean with a fine grade of Scotch-Brite™ (Scotch-Brite™ is a trademark of the 3M Company) metal polishing pads (or equivalent), steel wool, or a steel bristle wire brush.

⚠ CAUTION Do not clean the crimping profile with aggressive abrasive materials or methods such as emery cloth, sandpaper, grinding wheels or rotary files. These may alter critical crimping profile dimensions and cause improper crimping connections that can lead to extensive property damage.

- Tool should be visually inspected daily for obvious cracks, binding, breakage or other signs of excessive wear or damage. If any of these conditions are found the tool should be discarded and replaced.

⚠ WARNING A crimp tool component that has been welded, ground, drilled or modified in any manner can fail during use resulting in severe injury or death. Discard and replace damaged pressing tools.

- Lubricate the pivot points of the tool with a light oil on a regular basis to prevent wear and maximize tool life. Keep handles dry and free of oil for better control of tool.

Installation of Pressed Fittings

- Install the fittings as per ASTM F 1807 standards and/or per the instructions for the specific brand of ASTM F 1807 compliant fittings that you are installing. Consult crimp fitting manufacturer for installation instructions.
- As per the ASTM F 1807 standard, crimp rings should not be pressed more than once.

Inspection of Pressed Connections

The RIDGID ASTM F 1807 Manual PEX Crimp Tool comes with a gauge to inspect crimped rings. Every crimped connection must be checked to insure proper tool calibration and crimped connection performance.

⚠ CAUTION Incorrect size connections can result in leaks.

1. Hold gauge perpendicular to the axis of the tube. Try to slide the appropriately sized "NO-GO" slot over the crimped ring in at least two places (but not at tool parting line). If the gauge goes over the ring, the crimp is too small and should be cut out and discarded.



Figure 1 – Hold Gauge Perpendicular To Tube and Slide Over Ring

2. Hold gauge perpendicular to the axis of the tube. Try to slide the appropriately sized "GO" slot over the ring in at least two places (but not at tool parting line). If the gauge cannot fit over the crimped ring the crimp is too large and should be cut out and discarded.

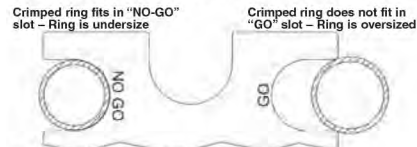


Figure 2 – Out of Tolerance Connections

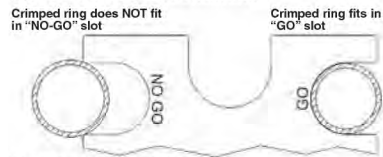


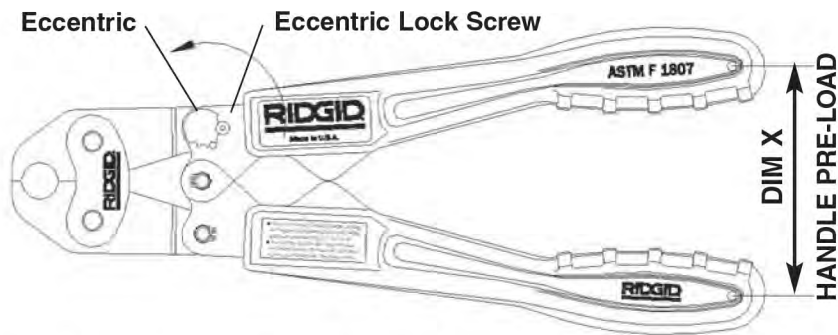
Figure 3 – Good Connections

Crimp Tool Adjustment Procedure

The RIDGID ASTM F 1807 Manual PEX Crimp Tool comes from the factory preadjusted and should not require any further adjustment out of the box. If, through extended use and wear of the tool, the pressed connections are not the correct size (as inspected with the gauge), the press tool can be adjusted.

1. Fully close the tool handles until the jaws butt at the tip.
2. Measure the distance between the centers of the indentations at the end of the handles (as shown in the attached drawing). Compare the dimension to the desired dimension from Chart 1. If the measured distance is within the dimensions shown in the chart, the adjustment is correct.
3. If the measured dimension does not match the dimension in the chart, the pressing tool requires adjustment.
4. To adjust the distance between the indentations.
 - a. Open the tool.
 - b. Remove the eccentric lock screw with an allen wrench.
 - c. To move indentations closer together, pull the eccentric out and rotate one step clockwise. To move indentations further apart, rotate the eccentric one step counter clockwise.
 - d. Reinstall the eccentric lock screw.
 - e. Fully close the tool and repeat step 2.
5. Make three press connections with the tool. Check the pressed

connections with the gauge and recheck the distance between the indentations. If the press connections are not the correct size or the distance between the indentations is not correct, the tool is worn out and should be replaced.



Catalog No	Description	DIM X
23448	1/2"	8 3/4" ± 1/4"
23458	3/4"	9 1/2" ± 1/4"
23468	1/2" & 3/4"	9 1/2" ± 1/4"
23463	1"	9 1/2" ± 1/4"

Chart 1

CAUTION Incorrect tool adjustment can cause incorrect press dimensions and/or excessive tool wear.

Accessories

Catalog No	Description
23473	3/8" – 1" ASTM F 1807 Gauge