



# Large Diameter Compact Crimp Tool

QCRTLDM

The QCRTLDM crimp tool will crimp 1 ¼", 1 ½" and 2" PEX barb fittings made to ASTM F1807 using copper crimp rings that are also made to that standard. It is a simple tool to use but because it is a relatively small tool for making crimps on these large size fittings, there are substantial loads on the screw/nut assembly and a little care will improve the life of the tool.

For heavy duty use, we recommend the larger power crimp tools.

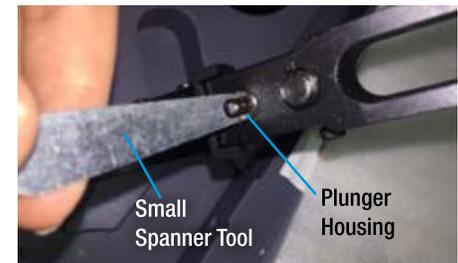
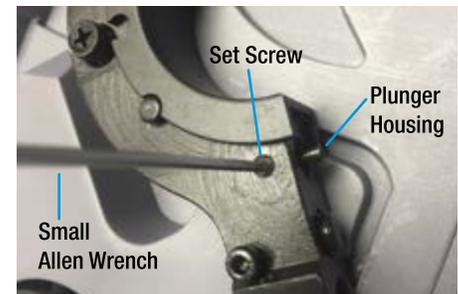
- 1. Keep the tool clean.** Always store the tool in its carrying case. If the tool is dropped in the dirt or gets dirt on it, be sure to clean it before making crimps. Dirt can keep the inserts from seating properly in the tool and it will shorten the life of the screw/nut assembly. The nut should turn easily on the threads of the screw and it should not feel gritty.
- 2. Lubricate the threads on the screw/nut assembly.** At least at the beginning of each job, lubricate the threads of the screw/nut assembly. We recommend an extreme pressure lubricant such as white Lubriplate® or the lubricant sold for the screw drives on Genie garage door openers. Do not use excessive lubricant because it will just be messy. Run the nut to the top of the screw and apply a small amount of lubricant to the middle of the threads on the screw. Spin the nut up and down the screw a few times by hand to distribute the lubricant. Wipe off any excess lubricant.
- 3. Inspect the tool.** Inspect the screw threads for signs of wear, distortion or galling. Inspect the thrust bearing for indications that it is failing such as excessive looseness in the housing. If any of these conditions are observed, the screw/nut assembly should be replaced. We sell a replacement kit (QCRTLDMRKIT) that provides a new screw, nut, thrust bearing, pivot pin and clip ring. Use a small blade type screwdriver to pry the clip from the pivot pin holding the screw/nut assembly, push the pin out to remove the screw/nut assembly. Reverse the steps to install the new screw/nut assembly. Typically, replacement of

these parts should return the tool to "good as new" performance.

- 4. Check the adjustment of the tool.** This tool has a blue LED light that will light when a crimp is complete. If the finished crimp will not gage properly with the gage supplied in the tool kit, it means that the set point for the light needs adjustment.
  - a.** First check to see that the batteries for the LED do not need replacing by removing all inserts from the tool jaws and closing the jaws. The LED should light. If it does not light, replace the batteries and check again. When the LED lights with the tool jaws closed without any inserts, continue with Steps b. and c.
  - b.** Place the 2" inserts in the tool jaws and close the tool without tightening the nut. If the LED lights up, an adjustment is needed.
  - c.** If the LED does not light, place the socket on the nut and tighten the nut on the tool jaws by hand. The LED should light when the nut is tightened with a "firm" twist by hand. The maximum force you can exert by hand should not be required. If the light does not light under this condition, an adjustment is needed.
- 5. Adjusting the LED set point.** The adjustable contact for the LED light is a spring plunger that is located in the moving jaw of the tool. The set point is adjusted by loosening a set screw on the side of the moving jaw with the small Allen wrench supplied with the tool and then turning the plunger housing with the small spanner that is also supplied with the tool.
  - a.** For condition 4.b., the plunger needs to be turned clockwise. Only turn the plunger approximately 30 to 45 degrees at a time and recheck to see if the LED does not light. Once the LED does not light when the jaws are closed without any force, proceed to Step 4.c.
  - b.** If the LED does not light when the nut is tightened by hand as in Step 4.c, the plunger needs to be turned counter-clockwise. Only turn the plunger approximately

30 to 45 degrees at a time before rechecking to see if the LED will light when the nut is tightened by hand.

- c.** When you have achieved the condition that the LED will not light when the tool jaws are closed without force but it will light when the nut is tightened firmly by hand, the set point for the LED is properly set. Tighten the set screw on the side of the moving tool jaw with the small Allen wrench.



- 6. NOTE:** The LED light is an indicator, it does not control the finished crimp dimension. Check the finished crimp with the crimp gage supplied with the tool to assure that the crimps are tight enough.
- 7. Other Cautions:**
  - a.** When loosening the nut after completing a crimp, do not run the nut all the way to the top of the screw and jam it against the stop with the impact wrench.
  - b.** If for some reason you wish to remove the nut from the screw, the retaining screw holding the stop washer has a left-hand thread.
  - c.** The thrust bearing is attached to the nut by magnets in the nut. Do not store items that might be damaged by close proximity to magnets near the tool.

Note: See [www.zurn.com](http://www.zurn.com) for warranty information.