

RIDGID UC-60 Crimp Heads Instructions

⚠ WARNING



Read and understand these instructions, the electrical tool instructions, the instructions for the dies to be used, the instructions for the

connector to be crimped and the warnings and instructions for all equipment and material being used before operating this tool to reduce the risk of serious personal injury.

SAVE THESE INSTRUCTIONS!

- **Keep your fingers and hands away from the crimp head during the crimping cycle.** Your fingers or hands can be crushed, fractured or amputated if they are caught between the dies or the components and any other object.
- **Do not use on energized electrical lines to reduce the risk of electrical shock, severe injury and death. Tool is not insulated.** Use appropriate work procedures and personal protective equipment when working near energized electrical lines.
- **Large forces are generated during product use that can break or throw parts and cause injury.** Stand clear during use and wear appropriate protective equipment, including eye protection.
- **Never repair a damaged head.** A head that has been welded, ground, drilled or modified in any manner can break during use. Never replace individual components. Discard damaged heads to reduce the risk of injury.
- **Use proper tool, die, connector and cable combination.** Improper combinations can result in an incomplete or improper crimp which increases the risk of fire, severe injury or death.

NOTICE Selection of 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 requirements should be completed. Consult connector manufacturer for selection information.

Description

RIDGID® UC-60 Crimp Heads are designed to crimp electrical compression connectors to their respective wires, in some cases using appropriate dies.

The Crimp head attaches to RIDGID RE 6/RE 60 or IlSCO Electrical Tool and can rotate 360 degrees with the RIDGID QuickChange System™ (QCS™).

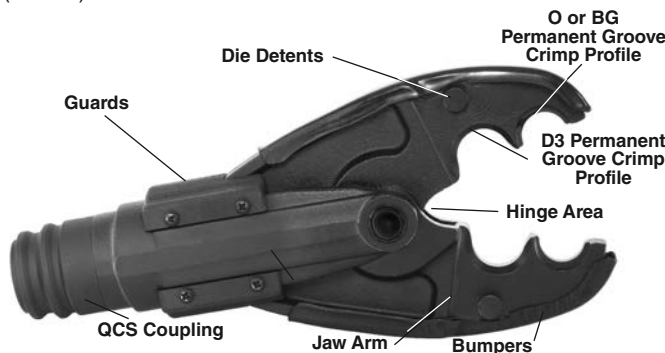


Figure 1 – UC-60 Crimp Head

Specification

Cat. #56798.....D3 & O Permanent Groove Crimp Profile
 Cat. #56793.....D3 & BG Permanent Groove Crimp Profile
 Dies UsedD3 Profile can be used with Commercially Available "X" or "W" Style 6 Ton Dies

For use With:

Copper Taps#10 Solid – 2/0 Stranded
 AL and ACSR Taps#14 Solid – 4/0 ACSR
 Stirrups.....#6 – 4/0 ACSR
 Tension Splices#10 Stranded – 4/0 ACSR

Lugs & Splices#8-350 MCM AL, 500 MCM CU
 As indicated per connector manufacturer literature, with use of appropriate dies.

Compatible QCS Type6T QCS and 60kN QCS
 Nominal Crimp Force.....12,000 lbf, 6-ton (53kN)
 Input Force13,500 lbf (60kN)
 Weight4.8 lbs. (2.2 kg)

Inspection/Maintenance

Inspect the Crimp Head before each use for issues that could affect safe use.

1. Remove battery from electrical tool.
2. Clean any oil, grease, or dirt from the tool and head, including handles and controls. This aids inspection and helps prevent the machine from slipping from your grip.
3. Inspect the head for:
 - Proper assembly and completeness.
 - Wear, corrosion or other damage.
 - Free movement of the jaw arms. The jaw arms should be biased open. Inspect hinge area (Figure 1) for damage.
 - Presence and readability of head markings.
 - See *Electrical Tool manual* for inspection and maintenance of the QCS coupling.
 If any issues are found, do not use the tool until corrected.
4. Inspect the electrical tool and any other equipment being used as directed in their instructions. Confirm that the crimp dies are a clean, undamaged matched set.
5. Lubricate the head pivot points with a light weight general purpose lubricating oil. Wipe off any excess oil.

Set Up/Operation

1. Prepare the connection to be crimped. Refer to connector manufacturer instructions/data sheets for information on proper permanent groove/die choices, number of crimps and other installation information.
2. Choose the appropriate equipment for the application. The O and BG permanent groove profiles are used as is. The D3 profile can be used as is or with appropriate dies. Make sure all equipment is inspected and set up per its instructions.
3. Remove battery from electrical tool.
4. If required, install the dies in D3 profile. Depress die detent and remove/insert die. Do not force die. Dies should fit securely, and the crimp profiles should align (Figure 2). Always use a matched set of dies. If there are any issues regarding proper die fit, do not use the tool.



Figure 2 – Installing Dies in Crimp head

5. Changing Heads with QCS Coupling – See *Electrical Tool manual*.
6. With dry hands install the tool battery.
7. Place the permanent groove or die crimp profile around the connector to be crimped.
8. Follow all compression connector manufacturers' instructions for crimp location. Some may require more than one crimp per connection or crimping in a certain order. Center the connector squarely against the crimp profile. Improper placement can make an incorrect crimp or damage the equipment. If making a single crimp, line up the crimp profile within the lines on the connector. If making multiple crimps on the connector, ensure

there is enough room to evenly space crimps between electrical connector lines.

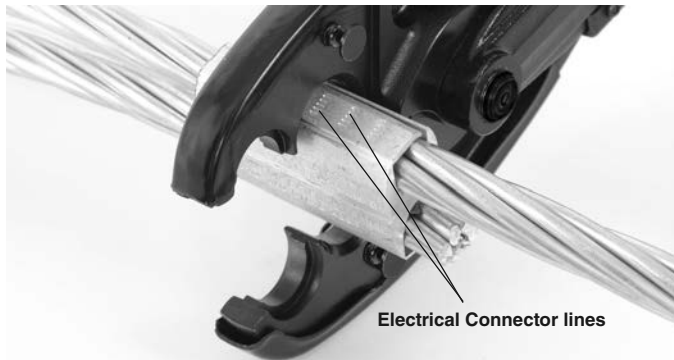


Figure 3 – Aligning the Connector in the Crimp Profile

9. With hands clear of the head and other moving parts, operate the Electrical Tool as per its instructions. After a complete cycle the tool ram will retract and the jaws will open. If the ram does not retract, the crimp is not complete and must be repeated.

A slight twist of the connection may be needed to release it from the crimp profile.

10. If the ram does not fully retract, press the electrical tool pressure release button. If needed, move the head and repeat the procedure for multiple crimps.

11. Inspect and test the connection in accordance with fitting supplier instructions, normal practice and applicable codes.



99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431

 Visit us at www.TestEquipmentDepot.com