RIDGID 4P-6 4PIN™ Dieless Crimp Head Instructions

⚠ WARNING

Read and understand these instructions, the electrical tool instructions, 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 indenters or these 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, 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 re quirements should be completed. Consult connector manufacturer for selection information.

Description

The RIDGID® 4P-6 4PIN Dieless Crimp Head Tool is designed to crimp electrical compression connectors to their respective wires.

The tool is available either as an interchangeable head (For RIDGID® RE 6/RE 60 or ILSCO Electrical Tool) or as part of a dedicated tool (RIDGID® RE-600 series tools).

The Crimp Head can rotate 360 degrees. It includes a special quick acting latching system.

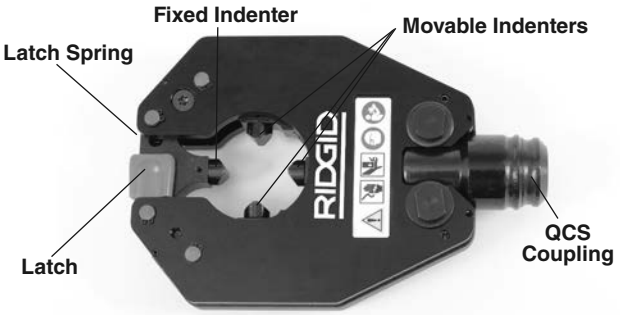

Figure 1 – 4P-6 4PIN Dieless Crimp Head (interchangeable version)

Specification

Max. Size Cable .....750 MCM Class B Copper Wire,
500 MCM Aluminum Wire
500 MCM Fine Stranded Wire

Go to RIDGID.com/CrimpDies for the RIDGID Crimp Die/Electrical Connector Compatibility Charts.

QCS Coupling Type.....6T QCS and 60kN QCS

Tool Input Force.....60kN (6-ton) (13,500 lbs)

Interchangeable Head Weight .....5.8 lb (2.6 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. Make sure that the latch works properly and securely closes.
   - 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 head until corrected.
4. Inspect the electrical tool and any other equipment being used as directed in their instructions.
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 per the connector manufacturer's instructions.
2. Choose the appropriate crimp equipment for the application per their specifications. Make sure all equipment is inspected and set up per its instructions.
3. Changing Heads with QCS Coupling – *See Electrical Tool manual.*
4. With dry hands install the tool battery.
5. If needed, open the head by pushing the latch to the side and rotating out *(Figure 2)*. Close the head around the connector to be crimped. Make sure that the latch is fully closed – do not operate the tool with the latch open or partially open.

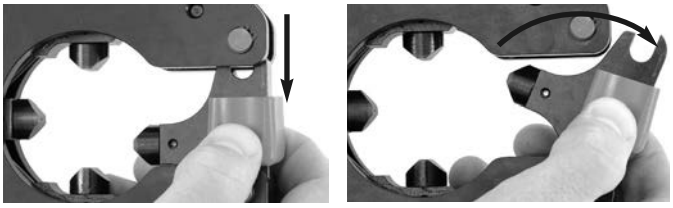

Figure 2 – Opening/Closing the Crimp Head

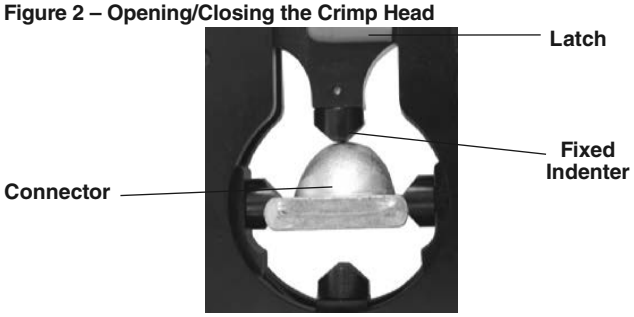

Figure 3 – Aligning Connector With the Fixed Indenter

6. Follow all compression connector manufacturers' instructions for crimp location. Some wire sizes may require more than one crimp per connector.

   Center the connector squarely against the fixed indenter (mounted on latch) *(Figure 3)*. If the connector is not centered on the fixed indenter or is between the indenters, an improper crimp and tool damage can result.

   When making a single crimp, line up the indenters within the lines on the connector. When making multiple crimps is required by the connector manufacture's instruction, ensure there is enough room to evenly space crimps between lug lines.

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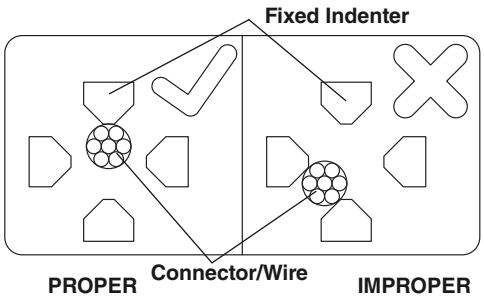

Figure 4 – Proper and Improper Connector Placement

7. With hands clear of the head and other moving parts, operate the electrical tool as per its instructions. After a complete cycle the ram will retract and the tool will stop. If the ram does not retract, the crimp is not complete and must be repeated.
8. If the ram does not fully retract, press the electrical tool pressure release button. When required, move the head and repeat the procedure for multiple crimps.
9. Remove the crimped connection from the head.
10. Inspect and test the connection in accordance with connector manufacturer's instructions, normal practice and applicable codes.