RELIABLE EQUIPMENT & SERVICE CO., INC.
301 Ivyland Road • Warminster, PA 18974 • USA
Phone: 215-357-3500 • Fax: 215-357-9193

MODEL: ________________________________
MAX. PRESSURE: ________________________
SERIAL NO.: __________________________
YEAR: ________________________________
DISTRIBUTED BY

REGISTRATION

UPON RECEIPT OF THIS TOOL, COMPLETE THE REGISTRATION BELOW.

COMPANY __________________________________________________________

ADDRESS __________________________________________________________

____________________________________________________________________

PHONE ______________________   FAX __________________________________

SERIAL NUMBER ____________________________________________________

DATE OF PURCHASE ________________________________________________

DEALER NAME _______________________________________________________

The information in this manual is intended to guide the user in the use and application of this tool. It is not intended as a substitute for proper training and experience in safe work practices for this type of equipment. Consult your supervisor or safety personnel if you have any questions regarding the safe operation of this tool.

CAUTION
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If you have any questions regarding the information found in this manual please contact RELIABLE EQUIPMENT at 800-966-3530 or FAX 215-357-9193.

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**THIS SYMBOL INDICATES ITEMS OF EXTREME IMPORTANCE.**
Safety of user and others may be in jeopardy if these instructions are not read and understood.
**6.2 TON S/A HYDRAULIC DIELESS CRIMPING HEAD**

The REL-750DH single acting remote dieless compression head has been designed to crimp Anderson and equivalent connectors manufactured to ANSI C119.4. This model features a connector range up to 750 MCM, and a 1.5 inch jaw opening providing ample space for easy die positioning. The flip top design and 360° swivel head permit simple tool positioning. The pull-pin closure will provide a safe positive lock.

**FEATURES:**

6.2 Ton output

Compatible with Anderson & equivalent dieless connectors.

Flip top design and rotating head provide easy placement around crimp.

Eliminate the need for dies under acceptable dieless applications.

Connector range from #10 to 750 MCM Copper and Aluminum.

3/8” male screw type coupler included.

Carrying case included.

| Weight: 6.5 lbs | Length: 11.5 inches | Width: 5.5 inches |
BEFORE USING THIS TOOL, READ THE WARNINGS and the recommended practices described in this manual. Failure by the operator to read and fully understand these warnings will leave this person unqualified to use and operate this tool. Property damage, severe personal injury, and/or death could result by not following these warnings.

These warnings will appear in appropriate locations when they are pertinent to the particular subject being shown. Read each one carefully and follow them strictly.

**Eye Protection**

**WARNING**

Always wear eye protection to avoid injury from flying debris or hydraulic oil leaks. Failure to do so can result in serious personal injury.

**Skin Irritation**

**WARNING**

Hydraulic oil may cause irritation. Use care to prevent contact with skin. In case of accidental contact, wash affected area immediately.

**Hard Hat**

**WARNING**

Always wear a hard hat to avoid injury from falling debris. Failure to do so can result in serious personal injury.

**Foot Protection**

**WARNING**

Always wear foot protection. Failure to do so can result in serious personal injury.

**Hearing Protection**

**WARNING**

Always wear hearing protection, to avoid hearing loss due to long term exposure to high noise levels.

**Protective Gloves**

**WARNING**

Always wear protective gloves. Failure to do so can result in serious personal injury.
SAFE OPERATION & CARE

USE THIS TOOL FOR ITS INTENDED PURPOSE ONLY
Any other use can result in personal injury or property damage.

INSPECT TOOL BEFORE USE. Replace any worn, damaged or missing parts. A damaged or improperly assembled tool may malfunction, injuring operator and/or nearby personnel.

INSPECT HYDRAULIC HOSES AND COUPLINGS before each use. Repair or replace if any cracking, leakage, wear or damage is found. Worn or damaged hoses may fail resulting in personal injury or property damage.

CLEAR WORK AREA of all bystanders and unnecessary personnel before operating this tool.

KEEP ALL PARTS OF THE BODY AWAY FROM MOVING PARTS.
Failure to observe this warning could result in serious injury.

HYDRAULIC POWER SUPPLY

DO NOT attempt to make any changes to any of the component parts or accessories when connected to the power source.

DO NOT adjust, inspect, or clean tool while the tool is connected to the power source. The tool could accidentally start up and cause serious injury.

DO NOT lock the tool in the On Position. In an emergency, serious damage or injury could occur during the time required to stop the tool.

OIL INJECTION INJURY

Hydraulic oil or fluid under the skin is a serious injury. Oil under pressure can penetrate the skin and may cause dismemberment or loss of life. Seek medical assistance immediately if such an injury should occur.

Always wear safety gloves, eye protection and all required safety equipment when operating or handling this tool.

DO NOT use fingers or hands to attempt to locate a leak.

DO NOT handle hoses or couplers while system is pressurized.

NEVER open or service the system before depressurizing.
**HOSES AND FITTINGS**

There exists the potential for shock in using anything other than certified nonconductive hoses and hydraulic oil with dielectric properties, when using system components near energized electrical lines. Failure to recognize these conditions could cause electrocution.

Hoses and fittings used with this tool must comply with S.A.E. J1273 which covers recommended practice for selection, installation, and maintenance of hose and hose assemblies. The **correct hoses and fittings are available from your supplier.**

**WARNING:** Failure to comply with these warnings could result in severe bodily injury.

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**UNIT/HOSE CONNECTIONS**

**ALWAYS DISCONNECT** pump/power source and move toggle switch to **OFF** before connecting or disconnecting any components.

**ALWAYS DEPRESSURIZE** hydraulic system, before slowly disconnecting this unit or any of the systems components.

**ALWAYS TIGHTEN** couplings completely. Loose or improperly tightened couplings will not allow fluid to pass through the hose creating a blockage in the supply or return line.

**ALWAYS INSPECT HOSES AND CONNECTORS** before connection to tool. Replace or repair if any leakage is evident. Leakage is a sign of deterioration in component parts. Worn or leaking parts must be repaired or replaced, or tool damage or severe injury could result.

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**Operation/Safety** methods may vary in accordance with the working guidelines established by each utility or contractor.

For your own safety, ensure that you fully comply with all safe operation guidelines required by your employer.

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**ELECTRICAL SHOCK HAZARD**

Always wear and use the necessary clothing, equipment and safety practices to protect against electrical shock. Failure to follow these rules can result in serious personal injury or death.
GENERAL SAFETY

USE ALL APPROPRIATE AND APPLICABLE PERSONAL SAFETY EQUIPMENT as required by the operating company.

INSPECT TOOL BEFORE USE. Replace any worn, damaged or missing parts. A damaged or improperly assembled tool may injure operator and/or nearby personnel.

KEEP ALL PARTS OF THE BODY AWAY from moving parts of the tool.

KEEP HANDS OUT FROM BETWEEN CRIMPING NODES AT TOOL HEAD.

ALL BODY PARTS SHOULD BE OUTSIDE DANGER ZONE PRIOR TO COMPRESSION.

MAKE SURE there is no person in close proximity to you or the tool who could be injured by any operation being performed, tool malfunction or flying debris.

DO NOT OVEREXTEND your position by overreaching or unbalancing the footing necessary to maintain physical control of your body and the tool.

ALWAYS MAINTAIN a firm grip on the tool to avoid loss of control during an operation, causing property damage, serious injury or death.

USE THIS TOOL FOR THE MANUFACTURERS’ INTENDED PURPOSE ONLY.

OBSERVE CLOSELY ALL OF THE SAFETY RULES FOR A PARTICULAR JOB CLASS

Operation/Safety methods may vary in accordance with the working guidelines established by each utility or contractor. Ensure that you fully comply with all safe operation guidelines required by your employer.

FAILURE TO HEED THESE WARNINGS COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.
Read entire manual prior to using this tool. Refer to all safety cautions and warnings. Observe all safety precautions and procedures required by the operating company.

1. Before crimping, ensure that subject is within the capacity listed for the tool. (see page 4) Ensure that Burndy or Anderson 6 ton dieless type compression sleeves are being used. **WARNING:** Crimping standard “H” Frame (Double Open Groove) connectors will cause tool damage and void warranty. **DO NOT OPERATE WITHOUT CONNECTOR IN PLACE.**

2. Ensure that proper 10,000 psi power source is turned **OFF** and valve is in **OFF** position.

3. Connect to a power source with an audible “Pop Off” type relief valve. (Recommended) (Refer to page 7 UNIT/HOSE CONNECTION)

4. Ensure that compression nibs (B) are retracted.

5. Release latch (C), and open tool Flip Top (D) for simple tool positioning around compression. **NOTE:** Tool Head (E) rotates 360° to aid in proper alignment while reducing fatigue.

6. Place connector/conductor assembly in head (E) and close Flip Top (D) and Latch (C) securely. **NOTE:** Failure to secure latch may result in severe tool damage and/or personal injury.

7. Position subject at a 90° angle to the tool compression head as shown in Figure 2. **KEEP HANDS AND ALL BODY PARTS AWAY FROM COMPRESSION OPERATION**

8. Turn power source “ON” and activate control valve to advance compression nibs up to subject. **Check tool alignment.**

7. Continue to advance until “pop off” is felt or heard and full pressure has been obtained.

8. Return source to the “OFF” position and allow compression nibs to retract completely.

9. Repeat procedure as required by compression sleeve or regulating authority.

10. Visually inspect crimp for correctness.
CONDUCTOR PREPARATION
Strip insulation from the conductor, being careful not to nick the strands. Use of a proper insulation stripping tool, or using the “Pencil” shaving method is recommended. Thoroughly clean the conductor by wire brushing until a bright shiny surface is obtained. All oxides and foreign matter must be removed.

NOTE: Do not wire brush tin-plated conductors or tinned connectors.

INSTALLATION OF SLEEVE CONNECTORS
1. Place sleeve in the nib opening. (strip off insulation jacket where applicable using the center band mark on the sleeve as a strip gauge.)

   WARNING: Certain small service sleeve connectors can severely damage this tool by becoming wedged between nibs of the tool head. Observe warnings and connector positioning instructions as shown in Figure 2 on page 10
2. Using the control valve to advance the nibs until they contact the sleeve loosely.
3. Position the sleeve so that the nibs will make the first crimp adjacent to the center band mark.
4. Insert the conductor into the connector socket making sure that the conductor is pushed fully in against the center barrier.
5. Actuate the control valve and the nibs will start compressing the sleeve.
   A positive trip accompanied by a distinct “Click” or “Pop” will occur when using a power source with an audible “Pop Off” type relief valve. (Recommended) The crimp is complete. Return the control valve to the “OFF” position.
6. Allow the compressed nibs to retract from the sleeve after pressure has been released.
7. After the second conductor has been installed and crimped, remove the tool by pulling the latch pin out and opening the compression head.

INSTALLATION OF OPEN GROOVE (TAP) CONNECTORS
1. The tool head may be rotated to any desired position when the compression nibs are fully retracted. Prior to installing tap connectors, the tool head should be positioned at an angle which relieves awkwardness and operator fatigue.

   WARNING: DO NOT OVEREXTEND your position by overreaching or unbalancing the footing necessary to maintain physical control of your body and the tool.
2. Place the tape side of the connector full into the tool so that the open side in the connector is facing between the top nib and either side nib. Close the nibs closely onto the connector while making sure that the positioning grooves mate with two of the nibs. Follow the same instructions for compressing and releasing the connector as previously described for sleeve connectors.
3. Place the main groove of the connector full into the tool with the open side facing between the top nib and either side nib. Close the nibs loosely. Place the positioned connector against the main conductor by applying firm pressure with the tool. Compress the nibs for specified number of crimp.
4. Remove the connector by retracting the nibs and opening the latch.

WARNING
Inspection & Testing requirements may vary in accordance with the working guidelines established by each utility or contractor.

For your own safety, ensure that you fully comply with all safe operation guidelines required by your employer.
DAILY MAINTENANCE

The life, reliability, and safety of the tool is dependent on proper use and maintenance.

STORE THE TOOL PROPERLY . . . Before storing tools release pressure so that the crimping nibs fully retract. This protects the operating ram from moisture and condensation.

NOTE: When the tool has been stored for extended period of non-use, the tools should be activated approximately every 3 weeks to keep o-rings and seals lubricated. Clean and inspect all surfaces including head, latch mechanism, ram, body and coupler. Particularly avoid joint compounds from building up on the crimping nibs.

WARNING: Head and/or handles may cut or pinch. Please use extreme caution. Worn or damaged parts may malfunction during operation, causing more extensive damage to the tool and/or severe injury to the operator or bystander.

All parts must be replaced with new parts if signs of wear or damage are evident. Check relief valve pressure setting regularly, using the optional pressure gauge. (Optional - may be purchased from Reliable Equipment or your local Reliable representative). Valve should be adjusted or replaced by a trained service technician if necessary.

DO NOT MAKE ADJUSTMENTS TO THE TOOL . . . There are no adjustments on this tool which can be made in the field. If a tool becomes inoperative and the instructions in this booklet do not correct the malfunction have the tool serviced by RELIABLE EQUIPMENT or an authorized service provider.

Keep Label Set clean and legible. Replace decals when necessary.

GENERAL MAINTENANCE

This tool requires well-trained experienced personnel for major repairs, adjustments or maintenance. Complete disassembly is not recommended. Return the unit to an authorized dealer for total disassembly and/or repair. It is suggested that tools requiring repairs be returned to Reliable Equipment for correction unless overall local conditions are adequate and service training has been provided. Reliable Equipment is set up to provide quick maintenance and overhaul service. Contact your Reliable Equipment representative if service is required.

All maintenance or disassembly should take place on a flat, clean work surface covered with towels or wipers so as to have a clean space for the disassembled parts. Inspect each part during disassembly for wear, scratches, and cuts. Discard the worn or damaged parts and replace with new factory authorized parts.

O-rings are sensitive to sharp edges. Inspect closely for cuts or damage. A small cut will cause a leak. When assembling or disassembling O-rings, use hydraulic fluid as a lubricant to help disassembly or installation.

NOTICE: When disposing of hydraulic fluid, parts or components observe all federal, state, and local guidelines.

IF YOU HAVE QUESTIONS REGARDING THE REPAIR AND MAINTENANCE OF THIS TOOL CONTACT RELIABLE EQUIPMENT OR YOUR RELIABLE EQUIPMENT REPRESENTATIVE.
BEFORE USING THIS PRODUCT
READ THE SAFETY WARNINGS
and recommended practices described in
the manual. Failure by the operator to read
and fully understand the warnings will leave
this person unqualified to use and operate
the tool.

Failure to observe all warnings and instructions could result in
property damage, severe personal injury, and/or death.

WARNING

ELECTROCUTION
HAZARD
The user should be properly
trained in the correct procedures
required for work on or around
electrical lines.

CAUTION

Operation and safety methods may vary in accordance
with the guidelines established by each utility.
For your safety, ensure that you fully comply with all
safe operation guidelines established by your respective
power utility.

CONNECTOR POSITIONING

INCORRECT

CORRECT

WARNING

KEEP BODY PARTS OUT
OF COMPRESSION ZONE

Do not operate tool
without crimp in place.
Serious tool damage and/or
personal injury may result.

CAUTION

Secure latch before operating.
Failure to secure latch can result in
severe tool damage and personal injury.

DANGER

The user should be properly
trained in the correct procedures
required for work on or around
electrical lines.

Secure latch before operating.
Failure to secure latch may result
in severe tool damage and/or
personal injury.
REL-750DH
DIELESS HEAD ASSEMBLY

DRAWING # 1
# REL-750DH DIELESS HEAD PARTS LIST

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If you have questions regarding the repair and maintenance of this tool contact Reliable Equipment at 800-966-3530
# Maintenance Records

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If you have any questions regarding the information found in this manual please contact RELIABLE EQUIPMENT at the address, phone or fax numbers shown below.

RELIABLE EQUIPMENT & SERVICE CO., INC.
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Visit us on the web at www.Reliable-Equip.com