

# OPERATORS' GUIDE

## 6 TON MANUAL STYLE CRIMPING TOOLS



### RELIABLE EQUIPMENT & SERVICE CO., INC.

92 Steamwhistle Drive • Ivyland, PA 18974 • USA  
Phone: 215-357-3500 • Fax: 215-357-9193

MODEL: \_\_\_\_\_

MAX. PRESSURE: \_\_\_\_\_

SERIAL NO.: \_\_\_\_\_

YEAR: \_\_\_\_\_

### WARNING



All information found in this guide must be read and understood before use or testing of this tool.

Failure to read and understand these warnings and safe handling instructions could result in severe personal injury and or death.



# RELIABLE EQUIPMENT & SERVICE CO., INC.

Crimping Manual 06-%

# DISTRIBUTED BY

## REGISTRATION

UPON RECEIPT OF THIS TOOL, COMPLETE THE REGISTRATION BELOW.

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_\_

DEALER NAME \_\_\_\_\_



CAUTION

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.



## **WARNING**

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.



## **Foot Protection**

### **WARNING**

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



## **Hard Hat**

### **WARNING**

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



## **Protective Gloves**

### **WARNING**

Always wear protective gloves. Failure to do so can result in serious personal injury.



## **WARNING**

## **TOOL HAZARDS**

This crimping tool can crush and/or disable.

KEEP ALL PARTS OF THE BODY AWAY FROM MOVING PARTS.

DO NOT OPERATE TOOL WITHOUT DIES.

Failure to observe this warning could result in serious injury



### **WARNING**

**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.



### **WARNING**

## **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 JAWS AT TOOL HEAD.**

**ALL BODY PARTS SHOULD BE OUTSIDE DANGER ZONE PRIOR TO CRIMPING.**

**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 SAFETY RULES FOR A PARTICULAR JOB CLASS**

**FAILURE TO HEED THESE WARNINGS COULD RESULT IN  
PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.**

## 6 TON MANUAL CRIMPING TOOLS



**REL-O, REL-BG  
REL-KO, REL-K58, REL-SN**  
Wooden Handles



**REL-\_\_\_-FG**  
Fiberglass Handles



**REL-\_\_\_-FGBH**  
Bent Fiberglass Handles

Three  
Handle Styles  
Available



Fixed O or BG Nose  
with D3 Die Seat  
Accepts R6 & W  
Style Dies

Fixed O or 5/8 Nose  
Accepts Kearney Dies

D3 Die Seat  
Accepts R6 & W  
Style Dies



## RELIABLE - 6 TON

### MANUAL COMPRESSION TOOLS

Reliable Equipment's series of manually operated crimpers installs a full range of connectors from #14 through 4/0 and are equivalent to the Burndy MD-6.

#### FEATURES:

Acceptance of W-type or Kearney Style die inserts.

Spring loaded die retainer pins assure positive lock.

Butting jaws.

Crimp force of 9,000 lbs.

Visual alignment system assures proper adjustment.

H/D forged steel jaws.

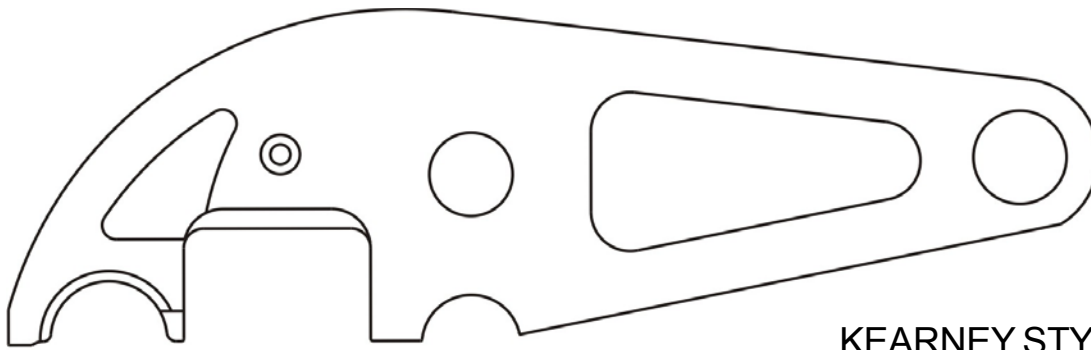
High strength hickory, fiberglass or bent fiberglass handles with anti-slip grips.

#### PART

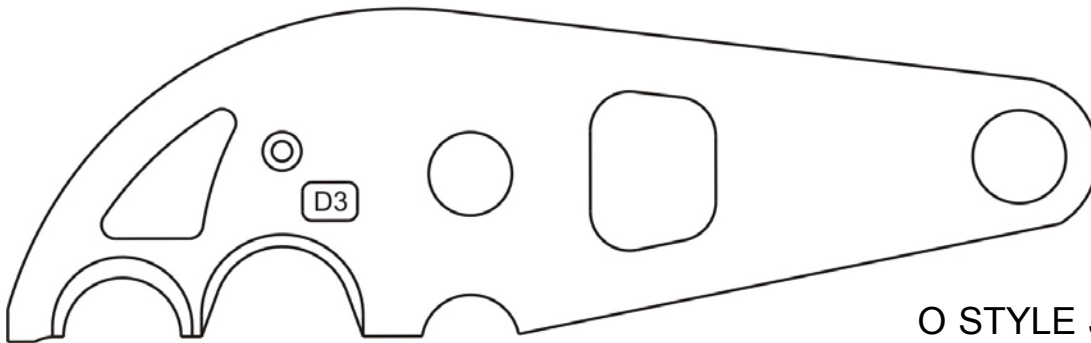
#### DESCRIPTION

<b>REL-O</b>	<b>Fixed D-3 Seat, O Nose Die &amp; Hickory</b>
<b>REL-BG</b>	<b>Fixed D-3 Seat, BG Nose Die &amp; Hickory</b>
<b>REL-KO</b>	<b>Kearney Seat, O Nose Die &amp; Hickory</b>
<b>REL-K58</b>	<b>Kearney Seat, 5/8 Nose Die &amp; Hickory</b>
<b>REL-SN</b>	<b>Fixed D-3 Die Seat &amp; Hickory Handle</b>
<b>REL-BG-FG</b>	<b>D-3 Seat, BG Nose &amp; FG Handle</b>
<b>REL-O-FG</b>	<b>D-3 Seat, O Nose &amp; FG Handle</b>
<b>REL-KO-FG</b>	<b>Kearney Seat, O Nose &amp; FG Handle</b>
<b>REL-K58-FG</b>	<b>Kearney Seat, 5/8 Nose &amp; FG Handle</b>
<b>REL-SN-FG</b>	<b>Fixed D-3 Die Seat &amp; FG Handle</b>
<b>REL-BG-FGBH</b>	<b>D-3 Seat, BG Nose &amp; FG Handle</b>
<b>REL-O-FGBH</b>	<b>D-3 Seat, O Nose &amp; FG Handle</b>
<b>REL-KO-FGBH</b>	<b>Kearney Seat, O Nose &amp; FG Handle</b>
<b>REL-K58-FGBH</b>	<b>Kearney Seat, 5/8 Nose &amp; FG Handle</b>
<b>REL-SN-FGBH</b>	<b>Fixed D-3 Die Seat &amp; Bent FG Handle</b>

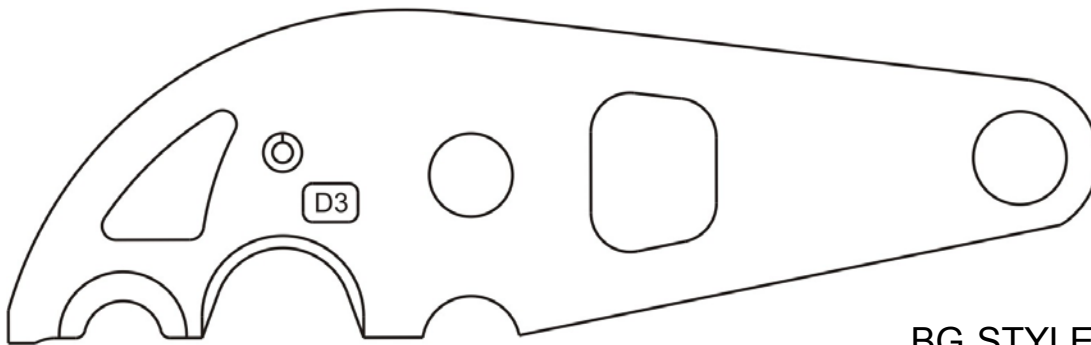
RELIABLE EQUIPMENT & SERVICE CO., INC.  
301 Ivyland Road • Warminster, PA 18974 • USA  
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KEARNEY STYLE JAW  
WITH O OR 58 FIXED NOSE DIE  
D3 die adapter available

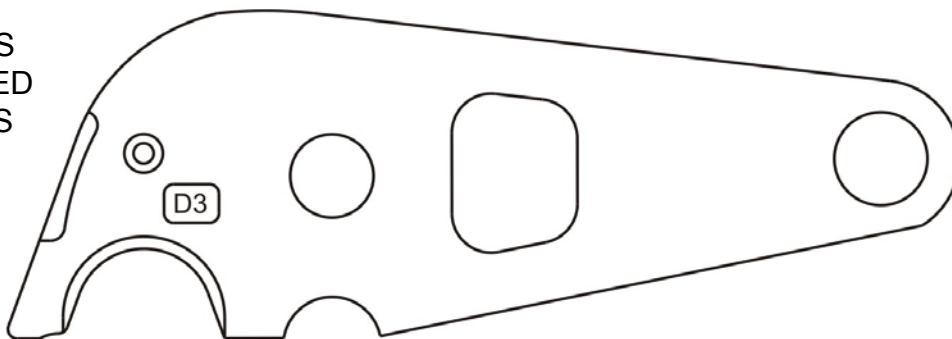


O STYLE JAW  
WITH FIXED D3 SEAT



BG STYLE JAW  
WITH FIXED D3 SEAT

ACCESS  
CONFINED  
SPACES



SNUB NOSE JAW WITH D3 SEAT

## RELIABLE R6 SERIES

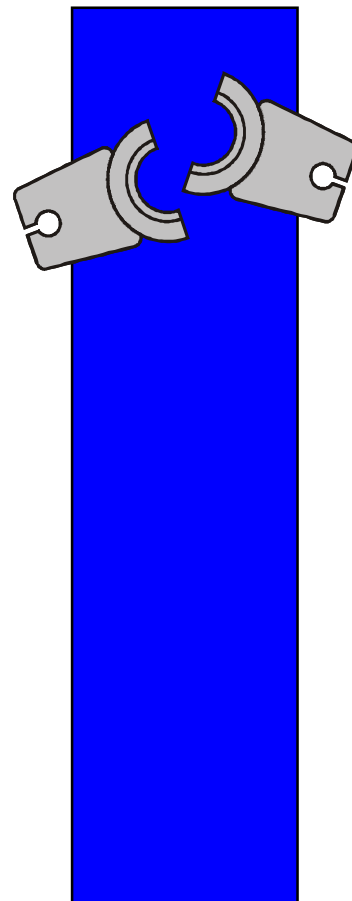
### APPLICABLE 6 TON DIES

RELIABLE ..... BURNDY

R6-BG .....	WBG
R6-C .....	WC
R6-K840 .....	WK840
R6-L .....	WL
R6-O .....	WO
R6-Q .....	WQ
R6-161 .....	W161
R6-162 .....	W162
R6-163 .....	W163
R6-164 .....	W164
R6-165 .....	W165
R6-167 .....	W167
R6-171 .....	W171
R6-236 .....	W236
R6-237 .....	W237
R6-238 .....	W238
R6-239 .....	W239
R6-240 .....	W240

RELIABLE ..... BURNDY

R6-241 .....	W241
R6-242 .....	W242
R6-243 .....	W243
R6-245 .....	W245
R6-247 .....	W247
R6-248 .....	W248
R6-249 .....	W249
R6-251 .....	W251
R6-660 .....	W660
R6-687 .....	W687
R6-690 .....	W690
R6-691 .....	W691
R6-693 .....	W693
R6-694 .....	W694
R6-702 .....	W702
R6-733 .....	W733
R6-CUT .....	W28K



## RELIABLE R6K SERIES

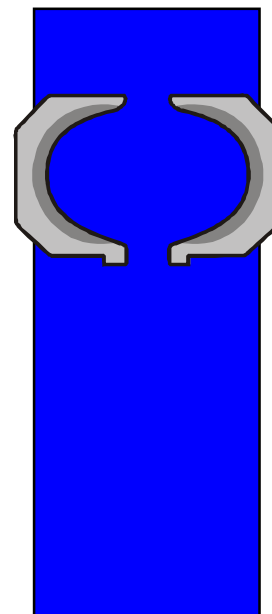
### 6 TON DIES EQUIV. TO KEARNEY "O" STYLE

RELIABLE ..... KEARNEY

R6K-B .....	B
R6K-D .....	D
R6K-J .....	J
R6K-K .....	K
R6K-O .....	O
R6K-P .....	P
R6K-T .....	T
R6K-737 .....	737
R6K-781 .....	781
R6K-840 .....	840
R6K-3/16 .....	3/16
R6K-1/4 .....	1/4

RELIABLE ..... KEARNEY

R6K-5/16 .....	5/16
R6K-3/8 .....	3/8
R6K-1/2 .....	1/2
R6K-9/16 .....	9/16
R6K-19/32 .....	19/32
R6K-5/8-1 .....	5/8-1
R6K-11/16 .....	11/16
R6K-D3 .....	D3
R6K-510H .....	510-HEX
R6K-635H .....	635-HEX
R6K-747H .....	747-HEX







## WARNING

## FIRE HAZARD

An incomplete crimp may pose a fire hazard.

Always use the appropriate connector, die set, and compression tool, as required by the intended application.

Compression tool should be tested on a regular schedule to ensure accurate compression.

Failure to observe this warning could result in serious injury.

# TOOL OPERATION

## MANUAL CRIMPING TOOL

Read entire manual prior to using this tool.  
(Refer to all safety recommendations and warnings)

Observe all safety precautions and procedures required by the operating company.

Before crimping, ensure that crimp is within the capacity listed for the tool.

Refer to connector manufacturer's instructions for cable preparation and crimping procedures.

Ensure that you are using the proper die, as recommended by the connector manufacturer.

Insert proper die into die seat.

Refer to appropriate **DIE INSTALLATION** on next page.

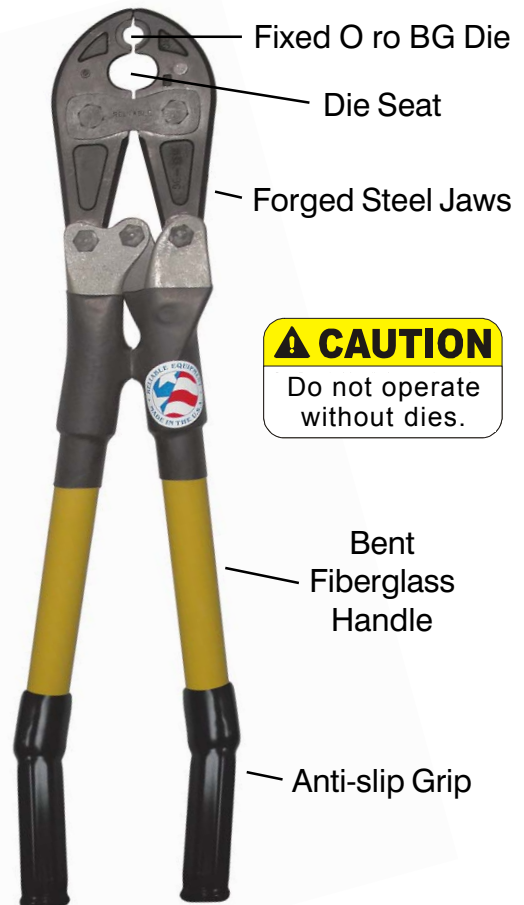
Place tool over connector.

Center connector between the dies.

Align jaw as necessary to ensure proper crimp.

Close handles until compression is complete.

Repeat as necessary to complete desired crimp.



**IF YOU HAVE ANY QUESTIONS REGARDING THE PROPER USE  
AND/OR OPERATION OF THIS TOOL, CONSULT YOUR AREA SUPERVISOR,  
OR CONTACT RELIABLE EQUIPMENT AT 800-966-3530**



# DIE INSTALLATION

Ensure crimp is within the capacity for the tool.  
Refer to connector manufacturer's instructions for cable preparation and crimping procedure.  
Ensure that you are using the proper die, as recommended by the connector manufacturer.

## REL-O, BG, or SN

### INSERT "W" STYLE DIE INTO DIE RETAINER

Open tool jaw completely.

Push down on die retainer pin. (Illustration A)

Slide die half into die seat and on the die pin.

Release retainer pin.

Check to ensure die is securely seated.

**Repeat steps above for opposing die half.**

## REL-KO, or K58

### INSERT KEARNEY STYLE DIE INTO JAW

Open tool jaw completely.

Slide the die into die seat. (Illustration B)

Ball detent will snap into position.

Check to ensure die is securely seated.

**Repeat steps above for opposing die half.**

### INSERT "W" STYLE DIE WITH D3 ADAPTER

Open tool jaw completely.

Slide the Kearney D3 die adapter into the jaw. (Illustration B) Ensure die is securely seated.

Push down on die retainer pin. (Illustration C)

Slide die half into die seat and on the die pin.

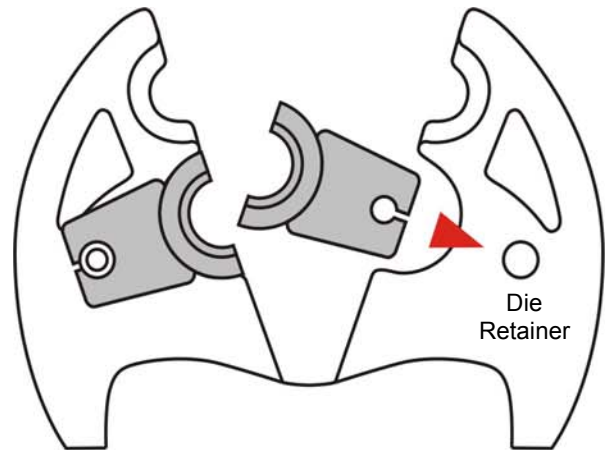
Release retainer pin.

Check to ensure die is securely seated.

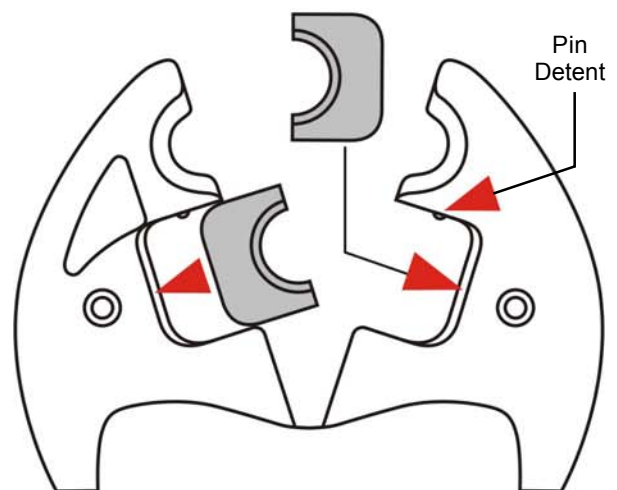
**Repeat steps above for opposing die half.**



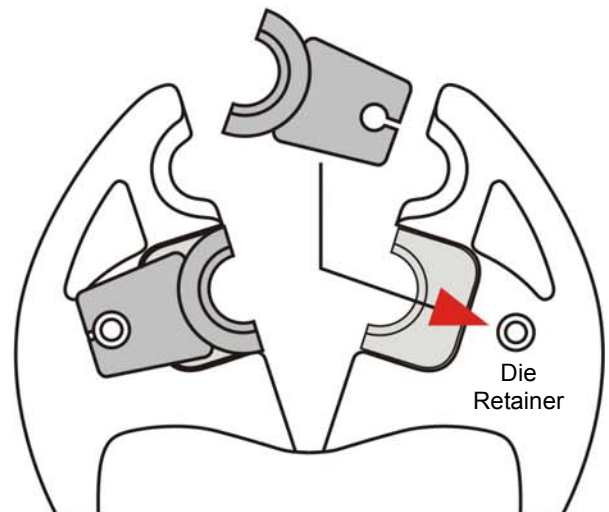
### A. R6/W Style Die Installation



### B. Kearney Style Die Installation



### C. Kearney D3 Nest Die with R6/W Die Installation



# DAILY MAINTENANCE

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

Clean all surfaces including head, die seat, and body.

Inspect tool for wear, and/or damage.

Worn or damaged parts may malfunction during operation.

**All parts must be replaced with new parts if signs of wear or damage are evident.**

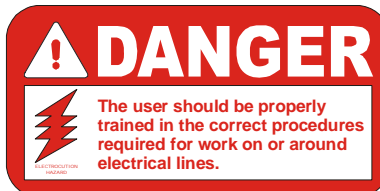
Keep Label Set clean and legible. Replace decals when necessary.



## WARNING

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.



## MONTHLY

Apply a light oil to all moving parts.

## QUARTERLY OR EVERY 500 CRIMPS

Perform a compression test

Test the crimping tool with 6 ton Test Slugs.

Consult your Reliable Equipment representative for test accessories.

## ANNUALLY

If required by the regulations of your employer, organization, or safety committee guidelines,  
send the crimping tool to an Authorized Reliable Service Center for testing and evaluation.



## 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.

# GENERAL MAINTENANCE

## INSPECTION AND ADJUSTMENT

### **Check tool regularly for correct adjustment.**

Adjustment to compensate for normal tool wear is possible and may extend the service life of your compression tool.

Remove any die inserts from the tool and inspect all parts for dirt, damage or abnormal wear.

Separate the tool handles and return handles to a point where the jaw tips touch, without applying any force to the handles. **DO NOT CLOSE HANDLES COMPLETELY!**

Check the alignment of the registration marks (A) found at the top of the link adjuster (#2) and the fixed handle casting (# 21). If the marks are in line the tool is adjusted properly, no further adjustment is necessary. If marks do not line up proceed to **Alignment**.

### Alignment

#### **Refer to illustration as needed.**

Using a 3/16" hex key, loosen the locking set screw (A) (bottom).

Using a 3/16" hex key, turn the adjustment set screw (B) (top) clockwise or counterclockwise until the marks line up.

Tighten locking screw (A) (bottom).

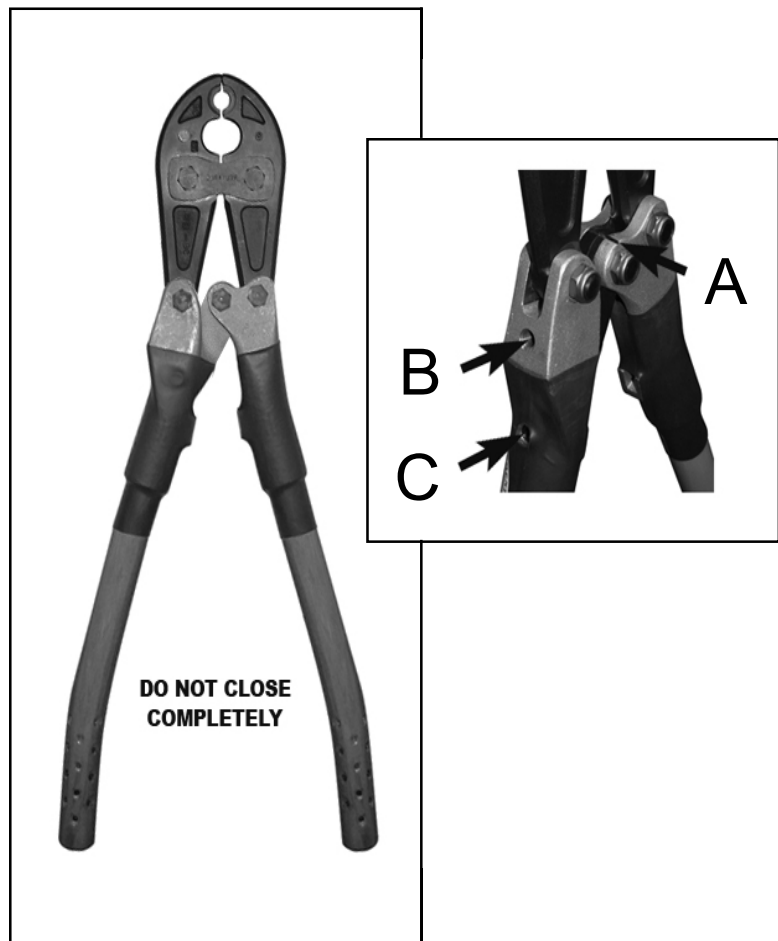
Your tool is now properly adjusted.

Check the complete operation of your tool and return to service.

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.

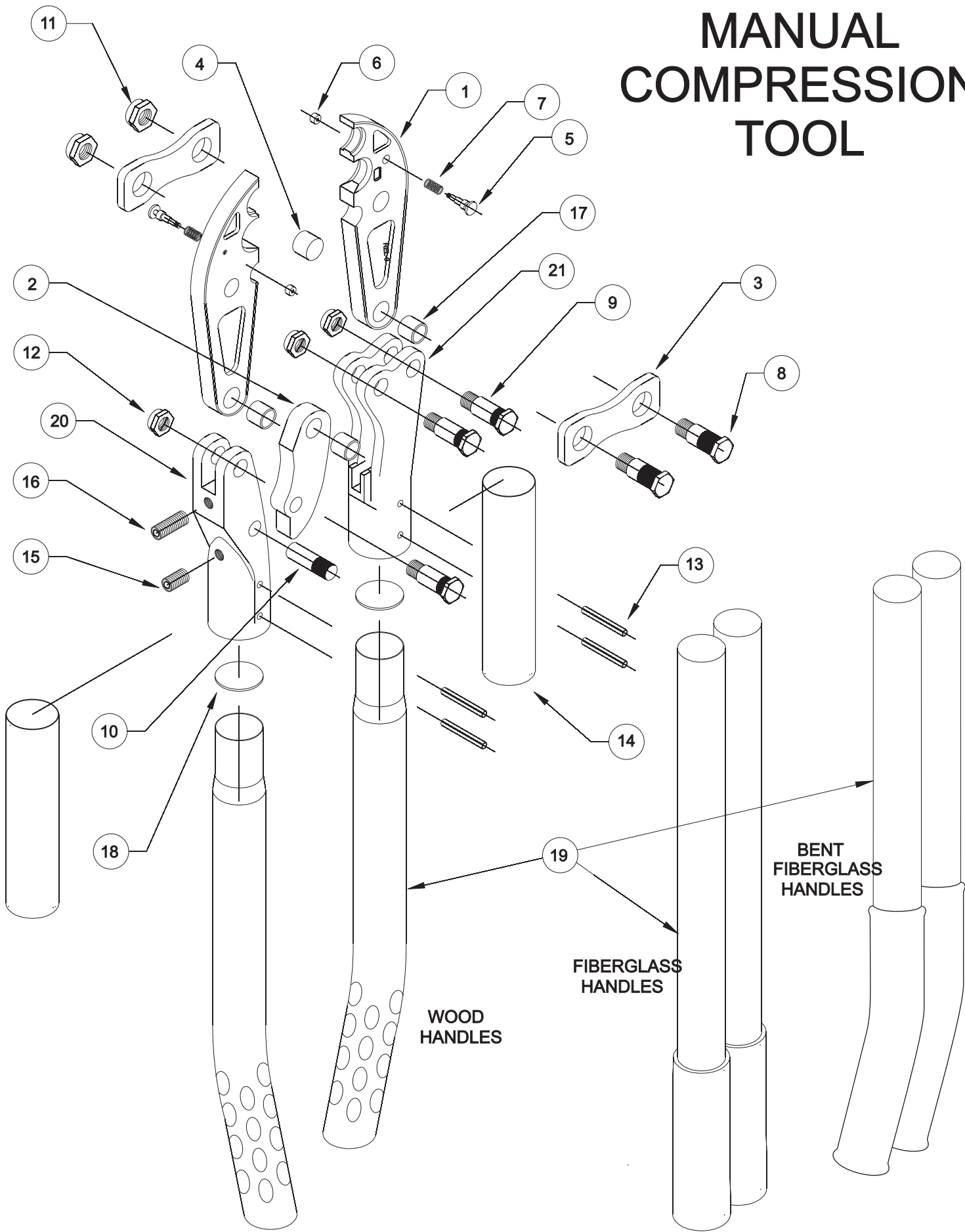
Inspect each part during disassembly for wear, scratches, and cuts.

Discard any worn or damaged parts replace with new authorized parts.



**IF YOU HAVE QUESTIONS REGARDING THE REPAIR AND MAINTENANCE  
OF THIS TOOL CONTACT RELIABLE EQUIPMENT AT 800-966-3530**

# MANUAL COMPRESSION TOOL



# PARTS LIST REL-BG / REL-O MANUAL COMPRESSION TOOL

ITEM	DESCRIPTION	QTY	RELIABLE
1	JAW, "BG" .....	2	R12847
	JAW, "O" .....	2	R12848
2	LINK, ADJUSTER .....	1	R12851
3	LINK, FRAME .....	2	R12852
4	PIVOT PIN .....	1	R12853
5	BUTTON, DIE RELEASE .....	2	R12854
6	NUT, DIE RELEASE .....	2	R12855
7	SPRING, DIE RELEASE .....	2	R12856
8	BOLT, CRIMP HEAD .....	2	R12857
9	BOLT, HANDLE CASTING .....	3	R12858
10	KNURLED PIN .....	1	R12859
11	NUT, CRIMP HEAD .....	2	R12860
12	NUT, HANDLE CASTING .....	3	R12861
13	ROLL PIN .....	4	R12862
14	SHRINK TUBE .....	2	R12863
15	SET SCREW, 3/8x16x3/4 .....	1	R12864
16	SET SCREW, 3/8x16x1 .....	1	R12865
17	"DU" BUSHING .....	3	R12866
18	DISK, CARBOARD .....	2	R12867
19	HANDLE, WOOD .....	2	R12868
	HANDLE, FIBERGLASS W/ GRIP .....	2	R12869
	HANDLE, BENT FIBERGLASS W/ GRIP .....	2	R12869K
20	CASTING, ADJ. HANDLE .....	1	R12850
21	CASTING, FIXED HANDLE .....	1	R12849

## KIT ASSEMBLIES

### DIE RETAINER KIT

(Items #5,6,7) ..... 1 ..... K2854

### HANDLE ASSY, ADJUSTMENT

(Items #2,10,13,14,15,16,18,19,20) ..... 1 ..... K2850

Fiberglass Handle Assembly (All items above with Fiberglass Handles) ..... 1 ..... K2850-FG

Bent Fiberglass Handle Assembly (All items above with Bent Fiberglass Handles) ... 1 ..... K2850-FGK

### HANDLE ASSEMBLY, FIXED

(Items #13,14,18,19,21) ..... 1 ..... K2849

Fiberglass Handle Assembly (All items above with Fiberglass Handles) ..... 1 ..... K2849-FG

Bent Fiberglass Handle Assembly (All items above with Bent Fiberglass Handles) ... 1 ..... K2849-FGK

### "BG" CRIMP HEAD ASSEMBLY

(Items #1,3,4,5,6,7,8,11,17) ..... 1 ..... K2847

### "O" CRIMP HEAD ASSEMBLY

(Items #1,3,4,5,6,7,8,11,17) ..... 1 ..... K2848

# MAINTENANCE RECORDS

Date	Parts or Service Required

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.**

301 Ivyland Road • Warminster, PA 18974

Phone: 800-966-3530 • Fax: 215-357-9193

Visit us on the web at [www.Reliable-Equip.com](http://www.Reliable-Equip.com)