

# OPERATORS' GUIDE

## REL-954RC SINGLE ACTING HYDRAULIC CUTTING TOOL

Single  
Acting



Lopper Style  
Cutting Jaw

CUT UP TO **954 MCM** ACSR

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

301 Ivyland Road • Warminster, P A 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.

### NOTICE

Sizes, weights and tool specifications listed in this manual are subject to change without notice. Please consult factory for information and updates.



# RELIABLE EQUIPMENT & SERVICE CO., INC.

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.

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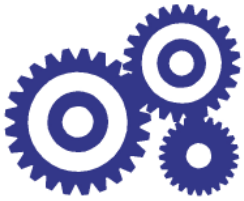
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If you have any questions regarding the information found in this manual please contact RELIABLE EQUIPMENT at 800-966-3530 or FAX 215-357-9193.



**THIS SYMBOL INDICATES ITEMS OF EXTREME IMPORTANCE.**  
Safety of user and others may be in jeopardy if these instructions are not read and understood.



# RELIABLE EQUIPMENT & SERVICE CO., INC.

## REL-954RC

10,000 PSI HYDRAULIC  
CABLE CUTTERS

Lopper Style  
Cutting Jaw

Single  
Acting



CUT UP TO 954 MCM ACSR



The REL-954RC remote hydraulic cable cutters are ideal for cutting individual conductors or communication cable.

The REL-954RC will cut individual copper to 500 MCM, all-aluminum conductors, and ACSR up to 954 MCM.

Simplicity, speed, and convenience make the REL-954RC cutter the perfect addition to any single-acting tool inventory.

The lopper style blade has been designed to cut the conductor with minimal distortion.

The adjustable jaws will compensate for wear, and to ensure a quality cut with less down time.

When used with the REL-HOT-1 hydraulic extension this tool becomes the perfect tool for Hotstick cutting applications.

### MAXIMUM CONDUCTOR CAPACITY

Copper	500 MCM
Aluminum	ALL
ACSR	954 MCM

### SPECIFICATIONS

System	SA	
Jaw Opening	1.25 in.	
Force @ 10,000 psi (690 bar)	17,720 lb.	
Max. Operating Pressure	10,000 psi (690 bar)	
Coupler	H/P Screw Type	
Weight: 5.9 lb.	Length: 15 in.	Width: 4 in.

Consult your Reliable representative for additional details, or to set up a demonstration of tooling solutions available from Reliable Equipment.



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



**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.



**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.



**WARNING**

## 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 cracking, leakage, wear or damage is found. ~~Old~~ 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.**



**WARNING**

## 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.



**WARNING**

## TOOL HAZARD

**DO NOT EXCEED THE MAXIMUM HYDRAULIC FLOW, RELIEF PRESSURE, OR BACK PRESSURE.**

Failure to observe warnings could result in tool damage or injury.

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



**WARNING**

## 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.



**WARNING**

## 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.



**WARNING**

## 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.





**WARNING**

## SERIOUS BURN HAZARD

### **HOT SURFACES MAY CAUSE SERIOUS BURN OR INJURY**

The hydraulic cylinder may be hot during and after operation.

### CAUTION: **HYDRAULIC FLUID MAY CAUSE SERIOUS BURNS**

Never disconnect tool, hoses, or fittings while the hydraulic power source is running or if the hydraulic fluid is hot.

Failure to observe this warning could result in serious injury.



**WARNING**

## CUTTING DANGER

This hydraulic cutting tool can cut, dismember and/or disable.

### **KEEP ALL PARTS OF THE BODY AWAY FROM MOVING PARTS.**

**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.

Failure to observe this warning could result in serious injury



**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.



**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.

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





**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 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 CUTTING BLADES AT TOOL HEAD.**

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

**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.

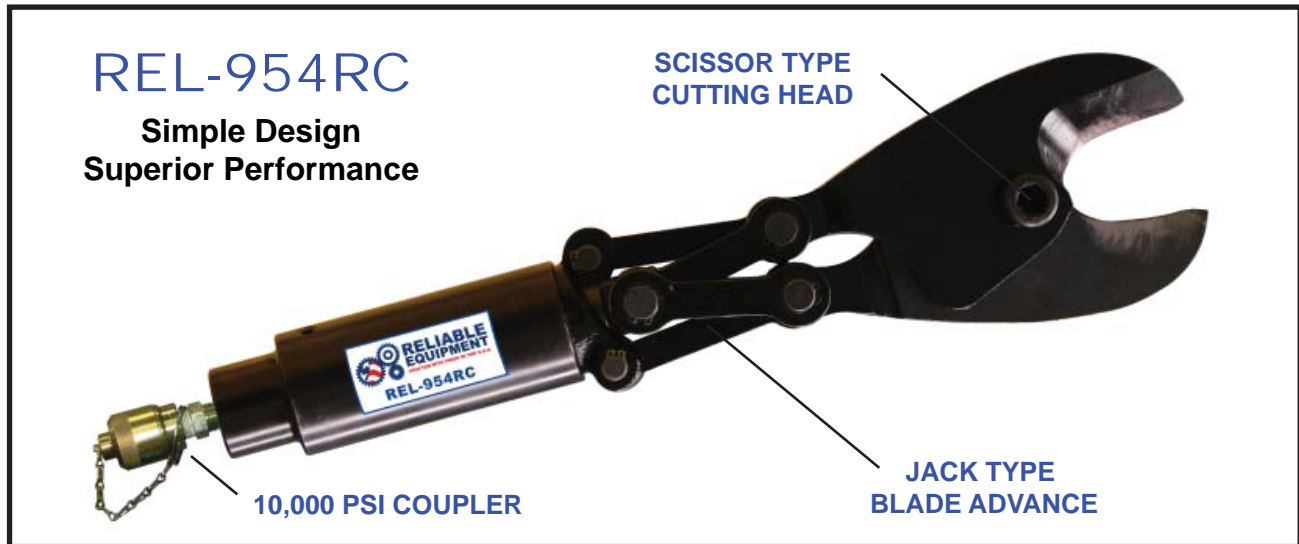
**FAILURE TO HEED THESE WARNINGS COULD RESULT IN  
PROPERTY DAMAGE, SERIOUS PERSONAL INJURY OR DEATH.**

**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**

# OPERATION

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 .  
(Also refer to SAFETY information found on pages 5 through 10)



**WARNING**

**Do not cut live conductors.**

**Hardened metals may fly when severed.**

**Take necessary precautions. wear safety glasses.**

**Keep all body parts away from cutting blades and moving parts.**

**Failure to follow these rules can result in serious personal injury or death.**

1. Before cutting, ensure that subject is within the capacity listed for the tool. (see page 4)
2. Connect to a 10,000 psi power source with an audible “Pop Off” type relief valve. (Recommended for best operation) (Refer to page 8 UNIT/HOSE CONNECTION)  
Ensure movable blade has retracted completely.
3. Tool head rotates to aid in proper alignment.
4. Place subject between cutting blades.
5. Position subject at a 90° angle to the tool head and cutting blade.  
**NOTE:** Failure to cut subject at the proper 90° angle may result in tool damage.
7. Turn power source “ON” and activate control valve to advance movable blade up to subject. **Check tool alignment.**
8. Continue to advance until cut is complete.
9. Return source to the “OFF” position and allow movable blade to retract completely .

# DAILY MAINTENANCE


The life, reliability, and safety of the tool is dependent on proper maintenance. Clean and inspect all surfaces including head, latch mechanism, blade, ram, and body .

**WARNING** blade, head may cut or pinch. Please use extreme caution.

Worn or damaged parts (i.e. chipped or cracked blade) 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.**


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.



**CAUTION**


Do not cut live conductors.  
Keep Body Parts away from blades and moving parts.  
Hardened metals may fly when severed.  
Take necessary precautions. Wear Safety Glasses.



**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.

REL-SM



**DANGER**

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

## GENERAL MAINTENANCE

**Complete disassembly is not recommended. Return the unit to an authorized dealer for total disassembly and/or repair.**

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. *See parts drawings on pg16-20.*

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.

When disposing of hydraulic 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 AT 800-966-3530**

# 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.**

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