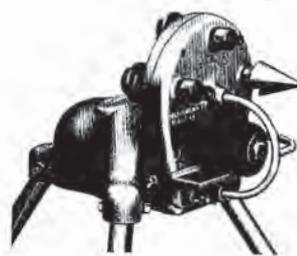


OPERATOR'S
MANUAL

**#124 Copper Cleaning
Machine**

IMPORTANT

For your own safety, before assembling and operating this unit, read this Operator's Manual carefully and completely. Learn the operation, applications and potential hazards peculiar to this unit.



RIDGID

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Cleaning Machine Manual — Form #124-M-991 — 940-900-010

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Signed *Henry L. Stenner*

Table of Contents

	Page
Recording Form for Machine Model and Serial Numbers	1
Description, Specifications, and Accessories	2
Safety Precautions	3
Operation:	
Cleaning End of Tube	4
Deburring Tube	4
Reaming Tube	4
Cleaning Inside and Facing Ends of Fittings	4
Maintenance:	
Lubrication	5
Inspection	5
Replacing External Brush or Deburring Cutter	5
Full Lifetime Warranty	Rear Cover

RIDGID

124

**Copper
Cleaning
Machine**

Copper Cleaning Machine

Record below and retain product model and serial numbers which are located on nameplate.

Model No.	Serial No.
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Description, Specifications and Accessories

Description

The RIDGID No. 124 Copper Cleaning Machine cleans, reams, faces and deburrs 1/2 inch through 4 inch tubing and fittings. Brushes rotate in one direction for maximum brush life. This machine cleans inside of fittings and faces the fittings at the same time. It also cleans and deburrs outside surface of tube in preparation for make up.

Specifications

Capacity 1/2" through 4" Copper Tube and Fittings.
Motor induction type.
Volts 115v single phase, AC (50-60 Hz) (230v on request).
Power Source max. 30 amp rated circuit.
Switch (ON/OFF) heavy-duty, toggle type.
Weight 62 lbs.

Standard Equipment

External Brush (1) 1/2" through 4" tubing.
External Deburring Cutter 1/2" through 4" tubing.
Reamer 1/2" through 2" tubing.
Fitting Brush (9) 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3" and 4".
Facing Cutter (5) dress fittings, 1/2" through 2".
Hex Key 5/32".
Tripod Stand folding with tool tray.

Accessories

No. 126 Facing Cutter 3/4" through 4".
No. 128 Reamer 2-1/2" through 4".
Fitting Brush (2) 1/4" and 3/8".
Heavy-Duty Internal Cleaning Brush (10) 1" through 6".

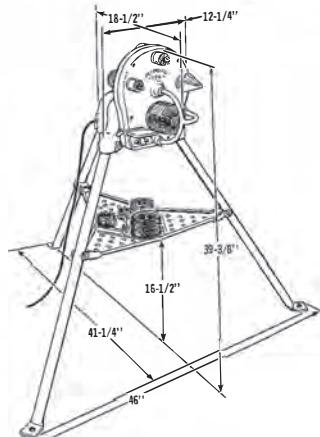


Figure 1. No. 124 Copper Cleaning Machine Dimensions.

Safety Precautions

1. **Know your machine.** Read the Operator's Manual carefully. Learn the operation, application, and limitations as well as the specific potential hazards peculiar to this machine.
2. **Avoid accidental starting.** Make sure switch is in OFF position before plugging in power cord.
3. **Ground Machine (Fig. 2).** This machine should be grounded while in use to protect the operator from electric shock. The machine is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. If your unit is for use on less than 150 volts, it has a 115V plug. If it is for use on 150 to 250 volts, it has a 230V plug.
4. **Remove adjusting keys and wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from machine before turning on machine.
5. **Support work.** Support long, heavy work with a pipe support.
6. **Secure work, machine and accessories.** Carefully tighten accessories. Make sure machine and stand are stable.
7. **Wear proper apparel.** No loose clothing (unbuttoned jackets or loose sleeve cuffs) or jewelry to get caught in moving parts.
8. **Don't overreach.** Keep your proper footing and balance at all times. Be sure you can reach switch safely at all times. Do not reach across moving or rotating parts or material being worked on. Keep hands and loose tools away from moving elements.
9. **Maintain machine in top condition.** Use sharp cutting tools and keep machine clean for best and safest performance. Follow lubricating instructions.
10. **Keep work area clean.** Cluttered areas, benches, and slippery floors invite accidents. Make sure that the tools, not being used, are not in any way obstructing machine operation.
11. **Avoid dangerous environment.** Don't use the machine in damp or wet locations. Keep work area well illuminated. Allow sufficient space to operate machine and accessories properly and for others to pass safely.
12. **Wear ear protection.** If exposed to long periods of very noisy shop operations keep ears protected.
13. **Use safety glasses and footwear.**
14. **Keep visitors away.** All visitors should be kept a safe distance from work area.
15. **Don't force machine.** It will do the job better and be safer at the rate for which it was designed.
16. **Use recommended accessories.** Consult the Operator's Manual. Use of improper accessories may be hazardous.
17. **Disconnect Power Cord.** When adjusting, servicing, or changing accessories disconnect Power Cord. Cord should be in top condition and examined at regular intervals.
18. **Keep guard in place and in working order.**

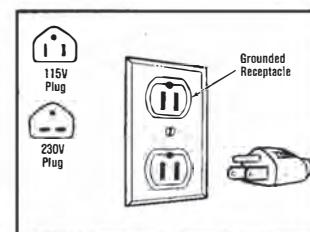


Figure 2. Machine Grounding Instructions.

RIDGID No. 124 Copper Cleaning Machine

Operation

Warning: Operator should be thoroughly familiar with preceding Safety Precautions before attempting to operate this equipment.

Note: If using an extension cord, use 14-gauge wire. If over 100 feet is used, use 12-gauge wire.

Cleaning End of Tube (Fig. 3)

1. Adjust rest plate approximately 1/8 inch from external brush.
2. Place end of tube on rest plate.
3. Turn ON/OFF Switch to ON position.
4. Press tube gently against brush and rotate tube slowly until surface is bright.
- Note:** Support long lengths of pipe with a pipe support.
5. Turn ON/OFF Switch to OFF position.

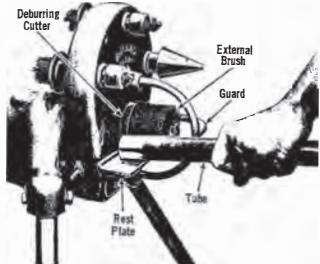


Figure 3. Cleaning End of Tube.

Deburring Tube

Remove external burrs by placing tube on rest plate and rotating against Deburring Cutter, located directly behind the External Brush. This action also bevels the end of tube for easy insertion into fitting.

Reaming Tube (Fig. 4)

Remove burrs on inside of tube by placing tube over Reamer Cone and applying necessary pressure.

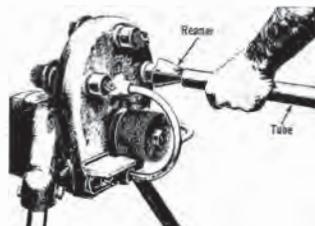


Figure 4. Reaming Tube with Reamer Cone.

Cleaning Inside and Facing Ends of Fittings (Fig. 5)

Note: All Brushes and Facing Cutters are interchangeable and can be positioned to suit operator. Brush and Facing Cutter combination is held to the shaft by a Set Screw. When inserting Brushes, position Set Screw on one of flat surfaces on brush shank.

1. Turn ON/OFF Switch to ON position.
2. Push fitting over proper Fitting Brush.
3. Hold fitting securely, to prevent rotation, while Brush cleans.
4. Face fitting by applying light pressure against Facing Cutter located directly behind Brush.
5. Turn ON/OFF Switch to OFF position.

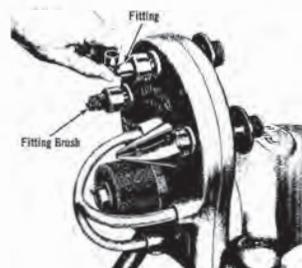


Figure 5. Cleaning Inside of Fitting.

RIDGID No. 124 Copper Cleaning Machine

Maintenance Instructions

Lubrication

Grease gears every six months if machine is subject to hard use. Use a light coating of RIDGID Lubricating Grease.

Inspection

Brushes. Replace worn Brushes to save time and to insure clean, leak-proof installations. **Reamer Blade.** For ease of operation, replace when worn.

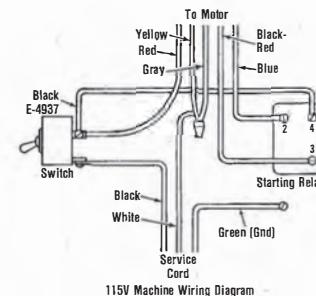
Cutters. Keep Facing Cutters clean and free from chips for maximum efficiency.

Replacing External Brush or Deburring Cutter

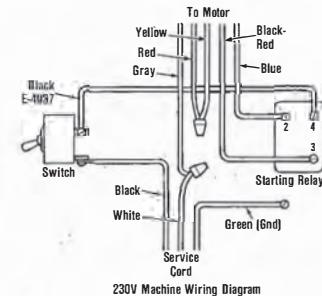
1. Remove Guard.
2. Remove left hand Thread Nut which secures External Brush.
3. Remove External Brush and Deburring Cutter.

Note: When replacing worn Deburring Cutter make sure recessed face is toward machine.

Machine Wiring Diagram



115V Machine Wiring Diagram



230V Machine Wiring Diagram

RIDGID Lifetime Warranty

The RIDGID REPUTATION is the result of consistent product quality and years of pride in workmanship. Rigorous checks and controls from raw materials to packaged products insure product confidence widely accepted as the mark of the professional trades. Therefore, RIDGID covers its products with a LIFETIME WARRANTY against defects in material or workmanship. Pipe or drain cleaning tools, rods and cable, are not covered by this warranty and are considered expendable material. To take advantage of this warranty, the complete product must be delivered prepaid to RIDGE TOOL COMPANY or any RIDGID AUTHORIZED SERVICE CENTER. Pipe wrenches and other hand tools should be returned to place of purchase. Obviously, failures due to misuse, abuse, or normal wear and tear are not covered by this warranty. NO OTHER WARRANTY, WRITTEN OR ORAL, APPLIES. No employee, agent, dealer, or other person is authorized to give any warranty on behalf of Ridge Tool Company. Warranted products will be repaired or replaced, at our option, at no charge to you and returned to you via pre-paid transportation. Such replacement or repair is the exclusive remedy available from Ridge. Ridge is not liable for damage of any sort, including incidental and consequential damages. Some U.S.A. states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



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