

# Model RT-175 Electric Soldering Gun

## General Safety Information

**WARNING!** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

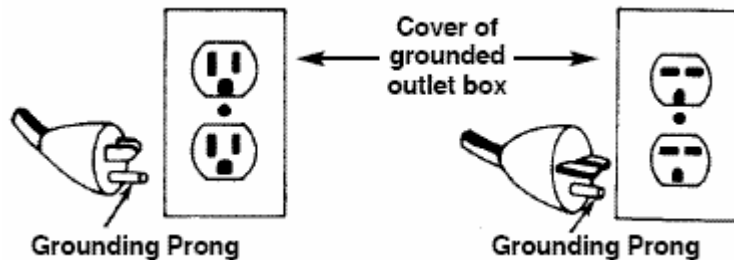
**SAVE THESE INSTRUCTIONS!**

### Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Electrical switches may create sparks which may ignite the dust or fumes.
- **Keep by-standers, children, and visitors away while operating an electric soldering gun.** Distractions can cause you to lose control.

### Electrical Safety

- **Grounded tools must be plugged into an outlet, properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.



- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electrical shock if your body is grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a tool will increase the risk of electrical shock.
- **Do not abuse cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electrical shock.
- **When operating an electrical tool outside, use an outdoor extension cord marked “W-A” or “W”.** These cords are rated for outdoor use and reduce the risk of electrical shock.
- **Use only three-wire extension cords which have three-prong grounding plugs and three-pole receptacles which accept the tool’s plug.** Use of other extension cords will not ground the tool and increase the risk of electrical shock.
- **Use proper extension cords.** (See Chart) Insufficient conductor size will cause excessive voltage drop, loss of power and overheating.

Minimum Wire Gauge for Extension Cord			
Nameplate Amps	Total Length (in feet)		
	0 – 25	26 – 50	51 – 100
0 – 6	18 AWG	16 AWG	16 AWG
6 – 10	18 AWG	16 AWG	14 AWG
10 – 12	16 AWG	16 AWG	14 AWG
12 – 16	14 AWG	12 AWG	NOT RECOMMENDED

- **Keep all electric connections dry and off the ground.** Do not touch plugs or tool with wet hands. Reduces the risk of electrical shock.

### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do**

**not use tool while tired or under the influence of drugs, alcohol, or medications.** A moment of inattention while operating tools may result in serious personal injury.

- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **Avoid accidental starting. Be sure switch is OFF before plugging in.** Carrying tools with your finger on the switch or plugging tools in that have the switch ON invites accidents.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- **Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

### **Tool Use and Care**

- **Do not use tool if switch does not turn it ON or OFF.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Store idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Maintain tools with care.** Properly maintained tools are less likely to cause injury.
- **Check for breakage of parts and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.
- **Inspect tool and extension cords periodically and replace if damaged.** Damaged cords increase the risk of electrical shock.
- **Keep handles dry and clean; free from oil and grease.** Allows for better control of the tool.
- **Check electrodes for wear and replace before the threaded studs show.** Prevents electrical arcing and excessive current draw.

### **Service**

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified repair personnel could result in injury.
- **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electrical shock or injury.
- **Disconnect all power from the unit before servicing.** Eliminates the risk of electrical shock and accidental starting.

## **Specific Safety Information**

### **\*\* Warning**

Read this operator's manual carefully before using the Electric Soldering Gun. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

Call the Ridge Tool Company, Technical Service Department at (800) 519-3456 if you have any questions.

### **Tool Safety**

- **Tool is made to solder copper pipe. Follow instructions on proper use.** Other uses may increase the risk of injury.
- **Do not leave the unit unattended.** Such preventive measures reduce the risk of injury or fire.
- **Do not touch solder gun sleeves or carbon tips.** They remain hot after use.
- **Do not operate unit with the electrical box cover removed.** Exposure to internal parts increases the risk of electrical shock.
- **Use soldering sleeves and carbon tips provided with unit.** Incorrect carbon tips or sleeves may result in overheating of the wires.
- **Keep soldering sleeves away from combustible materials or articles that can be damaged by heat.** Soldering sleeves and carbon tips remain hot after use.
- **Do not solder near combustible materials.** Copper pipe and soldering sleeves reach temperatures that can result in fire.
- **Do not store the handle in the case until the carbon tips have cooled.** They may burn the cord or solder gun cable.
- **Do not clamp or touch threaded studs or stainless steel sleeves against pipe or fittings.** Prevents electrical arcing and excessive current draw that may kick out circuit breaker.

## Description, Specifications and Standard Equipment Description

The RT-175 Electric Soldering Gun is capable of soldering joints in copper tube up to 3/8" diameter while using a standard 110V, 15A circuit. The soldering gun will heat copper to temperatures in excess of 750°F which allows it to successfully melt solders used in plumbing applications – from the 50/50 solders to the 95/5 lead-free types.

### Specifications

Power Input .....115 V, 15 A  
 Power Output .....(open circuit voltage)  
 Hi = 7.0 V, Low = 6.2 V  
 Current Draw .....13.5A @ Low Setting  
 15.0A @ High Setting

Duty Cycle .....Continuous  
 Tube Capacity .....Up To 3/8"  
 Solder Gun  
 Cable Length .....136"  
 Power Cord Length .....98"  
 Weight .....32 Lbs.

Height  
 (A – See Figure 1) .....6"  
 Length  
 (B – See Figure 1) .....17"  
 Width  
 (C – See Figure 1) .....11"

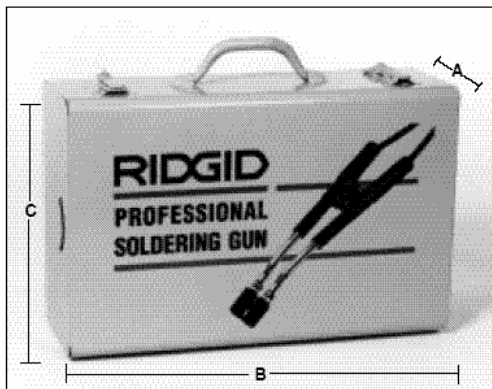


Figure 1 – Soldering Gun Case Dimensions

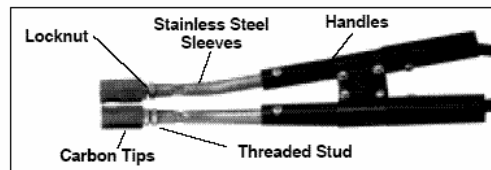


Figure 2b – RT-175 Handles and Carbon Tips

