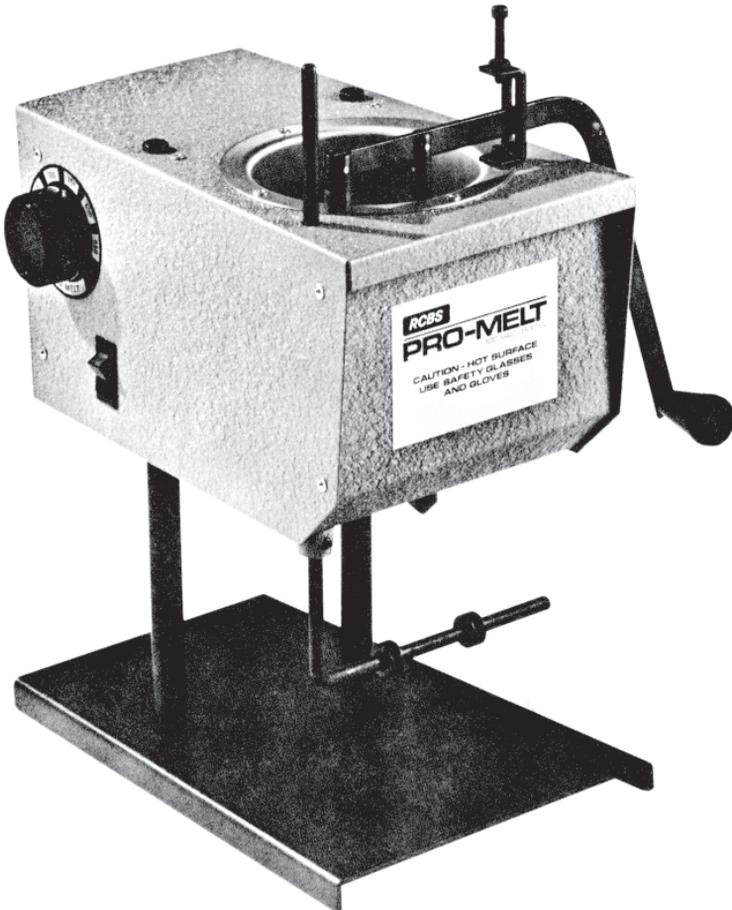
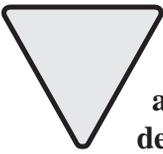


RCBS

PRO-MELT ELECTRIC LEAD FURNACE



PRODUCT INSTRUCTIONS



WARNING: Melting lead and casting lead objects will expose you and others in the area to lead, which is known to cause birth defects, other reproductive harm and cancer.

REDUCING EXPOSURE: Lead contamination in the air, in dust, and on your skin is invisible. ***Keep children and pregnant women away*** during use and until cleanup is complete. Risk can be reduced-but not eliminated-with strong ventilation; washing hands immediately after use of these products before eating or smoking; and careful cleaning of surfaces and floors with disposable wipes, after lead dust has had a chance to settle. Use a lead-specific cleaner with EDTA, or a high-phosphate detergent (like most detergents sold for electric dishwashers), and bag wipes for disposal.

**USE STRONG
VENTILATION**



SAFETY

Reloading is an enjoyable and rewarding hobby that can be conducted safely. But carelessness or negligence can make reloading hazardous. This product has been designed from the beginning with the user's safety in mind. When reloading, some safety rules must be followed. By observing these rules, the chance of a hazardous occurrence causing personal injury or property damage is minimized.

GENERAL

- Use all reloading equipment as the manufacturer recommends. Study the instructions carefully and become thoroughly familiar with the operation of the product. Don't take short cuts.
- Observe "good housekeeping" in the reloading area. Keep tools and components neat, clean and orderly. Promptly and completely clean up primer and powder spills.
- Reload only when you can give your undivided attention. Do not reload when fatigued or ill. Develop a reloading routine to avoid mistakes. Avoid haste — load at a leisurely pace.
- Always wear adequate eye protection.

CASTING

Overexposure to lead can be harmful. Lead contributes to health impairment and diseases which occur after periods of lead exposure over long periods of time.

- Bullet casting should not be conducted in a confined space or in an enclosed room. Ensure that well-ventilated areas are used to avoid build-up and breathing of lead dust, fumes and fluxing fumes. Good ventilation includes continuous cross-ventilation by large amounts of fresh air.
- Face dust masks should be worn during bullet casting activities.
- When casting or otherwise working with molten lead, always wear effective eye protection, appropriate protective clothing, leather or thick cotton work gloves, and shoes that cover your feet and ankles completely. Protective clothing could include coveralls or one-piece jumpsuits. However, the clothing should not be used for any other activities. It should be laundered separately from other clothing. These precautions will minimize the likelihood of any lead dust being scattered around in other living areas.
- Maintain good housekeeping practices to ensure that surfaces are as free as practical of the accumulation of lead dust. Vacuuming is the preferred method. Compressed air should not be used.
- Hands, face and hair should be washed after working around lead dust, fumes or fluxing fumes, and prior to eating, drinking, smoking or applying cosmetics. The likelihood of lead ingestion increases if you don't.
- At all times, keep small children well away from the casting area.
- Do not smoke, eat or handle food when handling lead.
- Always make certain bullet mould, lead dipper and bullet metal are totally free of moisture.
- All electrical melting pots should be grounded to reduce risk of electrical shock.
- Melting pots in use should never be left unattended.

- Be sure your melting pot and heat source are stable, and the table or bench is solid.
- An ingot mould or other container should be placed under the spout of bottom feed pots to catch lead that may leak.

RECORD KEEPING

- Keep complete records of reloads. Apply a descriptive label to each box showing the date produced, and the primer, powder and bullet used. Labels for this purpose are packed with SPEER bullets.

Since RCBS has no control over the choice of components, the manner in which they are assembled, the use of this product, or the guns in which the resulting ammunition may be used, no responsibility, either expressed or implied, is assumed for the use of ammunition reloaded with this product.

INTRODUCTION

The heart of your RCBS Pro-Melt is the accurate, industrial quality thermostat located inside the unit. The placement of the remote sensor, on the bottom surface of the melting pot, senses the actual temperature of the molten alloy. The bottom-feed nozzle ensures smooth, even pouring with the weight of alloy in the melting pot providing the pressure needed to fill mould cavities and eliminate shrinkage voids.

UNPACKING

Unpack the Pro-Melt carefully and look for the items listed below. Refer to the parts list for identification.

- Pro-Melt body and base
- Nozzle shut-off pin
- Handle
- Handle knob
- Handle fulcrum
- Adjustment bracket
- Screws: $\frac{5}{40} \times \frac{1}{2}$ round head screw (1), $\frac{5}{40} \times \frac{3}{8}$ round head screw (1), $\frac{10}{32} \times 1 \frac{1}{4}$ socket head cap screw (1), $\frac{10}{32}$ hex nut (1), $\frac{8}{32} \times \frac{3}{8}$ pan head screw (1).
- Mould guide collars (2)
- Allen wrenches (2)

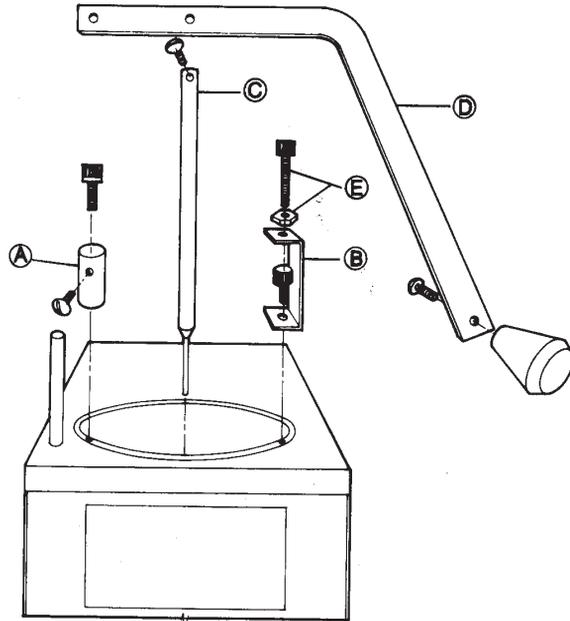
Should any parts be missing, please notify your dealer immediately.

INSTALLATION

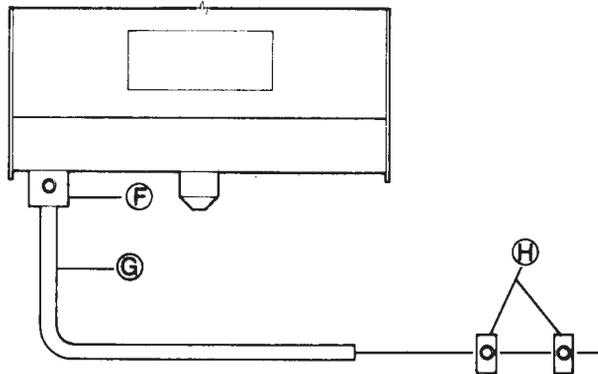
This furnace has been shipped assembled, except for attaching the handle, handle knob, adjustment bracket, and mould guide collars. To assemble:

- **Drawing 1:** Using the $\frac{5}{32}$ Allen wrench, unscrew the $\frac{10}{32} \times \frac{3}{8}$ socket head cap screw from the left rim of the melting pot. Using this screw, attach the handle fulcrum **A** onto the left rim of the melting pot.
- Using the $\frac{5}{32}$ Allen wrench, unscrew the $\frac{10}{32} \times \frac{3}{8}$ socket head cap screw from the right rim of the melting pot. Using this screw, attach the adjustment bracket **B** onto the right rim of the melting pot. Position the adjustment bracket as shown in Drawing 1.
- Insert the nozzle shut-off pin **C** into the nozzle. First remove the protective plastic coating from the end of the nozzle shut-off pin.
- Insert the handle **D** through the adjustment bracket and nozzle shut-off pin slots from the right side of the melting pot. Attach the left end of the handle to the handle fulcrum **A** with the $\frac{5}{40} \times \frac{1}{2}$ round head screw.
- Screw the nozzle shut-off pin **C** to the handle with the $\frac{5}{40} \times \frac{3}{8}$ round head screw.
- Screw the $\frac{10}{32} \times 1 \frac{1}{4}$ socket head cap screw and $\frac{10}{32}$ hex nut **E** into the top of the adjustment bracket **B**.
- Attach the handle knob to the handle with the $\frac{8}{32} \times \frac{3}{8}$ pan head screw.
- **Drawing 2:** Using the $\frac{3}{32}$ Allen wrench, loosen the setscrew in the mould guide housing bushing **F**. Adjust the mould guide **G** at the desired height. Position clear of the nozzle to avoid any molten alloy which might drip from the nozzle while using the Pro-Melt.
- Slide the mould guide collars **H** onto the mould guide **G**. Position the collars to guide the mould and tighten the setscrews with the $\frac{3}{32}$ Allen wrench.

Drawing 1

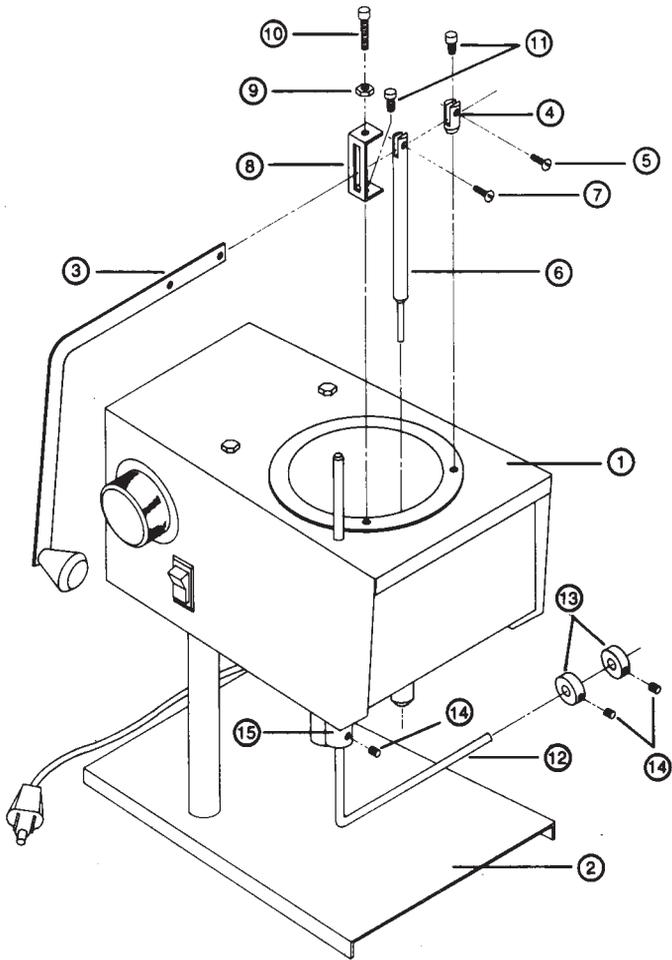


Drawing 2



TO USE:

- Set the thermostat at its lowest temperature and turn on the Pro-Melt. The pilot light located in the on-off switch will indicate when there is power to the element.
- After the Pro-Melt has been on for approximately 15 minutes (the pilot light will go on and off), set the thermostat at 650°F.
- Add small pieces of scrap lead or ingots to the melting pot, stacking them against the sides as much as possible.
- Continue adding small pieces of lead or ingots until you have approximately 1" to 1 1/2" of molten lead in the melting pot. After you have 1" to 1 1/2" of molten lead in the melting pot, more lead may be added in any amount. Do not operate the Pro-Melt with less than 1" of alloy in it.
- The flow of alloy can be increased or decreased by raising or lowering the socket head cap screw. Usually 1/32" to 1/16" of handle travel will give an adequate flow.
- For bullet casting instructions, consult the instruction book you received with your bullet moulds.
- When melting metals to produce an alloy, always be certain that you are using the recommended metals and recommended amounts.



KEY	PART#	DESCRIPTION
1	81101	Furnace body
2	81103	Base
3	81104	Handle
4	81107	Handle fulcrum
5	81108	Round head screw $\frac{5}{40} \times \frac{1}{2}$
6	81114	Nozzle shut-off pin
7	81115	Round head screw $\frac{5}{40} \times \frac{3}{8}$
8	81110	Adjustment bracket
9	81112	Hex nut $\frac{10}{32}$
10	81111	Socket head cap screw $\frac{10}{32} \times 1\frac{1}{4}$ (2)
11	81109	Socket head cap screw $\frac{10}{32} \times \frac{3}{8}$ (2)
12	81116	Mould guide rod
13	81117	Mould guide collar (2)
14	09099	Setscrew $\frac{10}{32} \times \frac{1}{4}$ FP (3)
15	81118	Mould guide housing bushing

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