

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Lee Precision](#) /
- › [Lee Precision Electric Metal Melter Pro 4 \(20 LB\) Instruction Manual](#)

### Lee Precision Pro 4 - 20 LB (SIS-90947)

# Lee Precision Electric Metal Melter Pro 4 (20 LB) Instruction Manual

Model: Pro 4 - 20 LB (SIS-90947) | Brand: Lee Precision

## INTRODUCTION

The Lee Precision Electric Metal Melter Pro 4 is designed for efficient and safe melting of lead for bullet and sinker casting. This unit features a generous 4 inches of clearance under the spout, accommodating various mold types, and includes an adjustable mold guide for precise pouring. This manual provides essential information for the proper setup, operation, and maintenance of your metal melter.

## SAFETY INFORMATION

**WARNING:** Melting lead involves high temperatures and hazardous fumes. Failure to follow safety precautions can result in serious injury or death.

- Always operate the melter in a well-ventilated area to avoid inhaling lead fumes. Consider using a fan to direct fumes away from your breathing zone.
- Wear appropriate personal protective equipment (PPE), including safety glasses or a face shield, heat-resistant gloves, and long-sleeved clothing.
- Ensure the melter is placed on a stable, non-combustible surface away from flammable materials.
- Never add water or wet materials to molten lead, as this can cause a dangerous steam explosion.
- Keep children and pets away from the operating area.
- Unplug the unit when not in use and allow it to cool completely before handling or storing.
- Do not exceed the maximum lead capacity of the pot.

## PRODUCT OVERVIEW

The Lee Precision Electric Metal Melter Pro 4 is designed for ease of use and efficiency in lead casting. It features a robust construction and a convenient bottom-pour spout for controlled dispensing of molten lead.



*Figure 1: Lee Precision Electric Metal Melter Pro 4. This image shows the complete electric metal melter unit, highlighting its compact design and the pouring spout mechanism.*

Key features include:

- **Capacity:** 20 LB lead capacity.
- **Clearance:** 4 inches of clearance under the spout for various mold sizes.
- **Adjustable Mold Guide:** For quick and accurate mold positioning.
- **Adjustable Temperature Control:** Allows for precise heat management for different lead alloys.

## SETUP

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Place the melter on a sturdy, level, heat-resistant, and non-combustible surface. Ensure adequate ventilation in the work area.
3. **Power Connection:** Ensure the power cord is free from damage. Plug the melter into a grounded electrical outlet.
4. **Initial Heat-Up (Optional but Recommended):** For first use, it is recommended to heat the empty pot to a low setting for about 15-20 minutes to burn off any manufacturing residues. Ensure good ventilation during this process.

## OPERATING INSTRUCTIONS

---

1. **Add Lead:** Place clean, dry lead ingots or scrap into the melter pot. Do not overfill.
2. **Set Temperature:** Turn the temperature control knob to the desired setting. For most lead alloys, a setting around 3 or 4 is often sufficient. Refer to specific lead alloy melting points if known.
3. **Melt Lead:** Allow the lead to melt completely. This typically takes less than 5 minutes, depending on the quantity and initial temperature of the lead.
4. **Skim Dross:** Once the lead is molten, use a suitable tool (e.g., a steel spoon or skimmer) to remove any dross (impurities) from the surface.
5. **Position Mold:** Place your bullet or sinker mold directly under the pouring spout. Utilize the adjustable mold guide for precise alignment.
6. **Pour Lead:** Gently depress the pouring lever to open the spout and allow molten lead to flow into the mold cavities. Release the lever to stop the flow.
7. **Cool and Remove:** Allow the lead in the mold to solidify. Once cooled, open the mold and carefully remove the cast bullets or sinkers.
8. **Repeat:** Continue adding lead and repeating the process as needed.

Your browser does not support the video tag.

*Video 1: Lead Melting and Pouring Demonstration. This video demonstrates the process of melting lead in the pot and using the pouring spout to fill a mold, showcasing the ease of use and quick melting time.*

## MAINTENANCE

---

- **Cleaning:** After each use, allow the melter to cool completely. Scrape any solidified lead or dross from the pot and spout using a non-abrasive tool. Do not use water for cleaning.
- **Spout Maintenance:** If the pouring spout becomes clogged, carefully clear it with a metal pick or a drill bit of slightly larger diameter (as suggested by user reviews) after ensuring the unit is unplugged and cooled.
- **Storage:** Store the melter in a dry, safe place away from moisture and out of reach of children.

## TROUBLESHOOTING

---

Problem	Possible Cause	Solution
Melter not heating	No power, faulty cord, internal issue.	Check power connection. Inspect cord for damage. If issues persist, contact support.

Problem	Possible Cause	Solution
Lead not melting quickly	Temperature setting too low, large lead pieces, cold environment.	Increase temperature setting. Break lead into smaller pieces. Allow more time for melting.
Spout is clogged or lead flow is slow	Dross or debris in the spout, lead not hot enough.	Increase temperature. Carefully clear the spout with a metal pick or drill bit (ensure unit is unplugged and cooled).
Inconsistent bullet/sinker quality	Incorrect lead temperature, mold not hot enough, dross in lead.	Adjust temperature. Preheat molds. Skim dross thoroughly.

## SPECIFICATIONS

---

- **Brand Name:** Lee Precision
- **Model Number:** SIS-90947
- **Item Package Dimensions L x W x H:** 10.55 x 9.41 x 6.77 inches
- **Package Weight:** 2 Kilograms
- **Material:** Metal, Plastic
- **Lead Capacity:** Approximately 20 LB (as per product title)
- **Clearance Under Spout:** 4 inches
- **Date First Available:** June 3, 2015

## WARRANTY INFORMATION

---

Specific warranty details are not provided in this document. Please refer to the product packaging or the official Lee Precision website for the most current and comprehensive warranty information.

## SUPPORT

---

For technical assistance, replacement parts, or further inquiries, please contact Lee Precision customer support. Contact details can typically be found on the product packaging or their official website.