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› Polyvance 5700HT Mini Weld Model 7 Airless Plastic Welder User Manual

Polyvance 5700HT

Polyvance 5700HT Mini Weld Model 7 Airless Plastic Welder

User Instruction Manual

INTRODUCTION

The Polyvance Mini-Weld Model 7 Airless Plastic Welder is an advanced tool designed for repairing various types of plastic. This comprehensive kit provides everything needed for effective plastic welding, including a temperature control unit that can be detached for increased mobility and features a belt clip. The welder is equipped with a 200-watt ceramic core element, enabling it to weld high-melting-point plastics such as nylon radiator tanks. It includes eight types of welding rods to match most automotive plastics, including challenging materials like TEO, TPO, and Polypropylene, which can be repaired using the included FiberFlex universal rod. The kit also features two easy-to-swap welder tips and a precise temperature control for optimal welding results across different plastic types.



Image: The Polyvance 5700HT Mini Weld Model 7 Airless Plastic Welder kit, showcasing the main unit and accessories.

Safety Information

- Always wear appropriate personal protective equipment (PPE), including safety glasses and heat-resistant gloves, when operating the welder.
- Ensure adequate ventilation in the work area to avoid inhaling fumes produced during plastic welding.
- Do not touch the hot tip or heating element of the welder. Allow the tool to cool completely before storing or changing tips.
- Keep the welder away from flammable materials and liquids.
- Always unplug the welder when not in use or before performing any maintenance.
- Use the welder only for its intended purpose of plastic repair.
- Keep children and unauthorized personnel away from the work area.

Package Contents

Your Polyvance 5700HT Mini Weld Model 7 Airless Plastic Welder kit includes the following items:

- Polyvance Mini-Weld Model 7 Welder Unit
- Temperature Control Unit with Belt Clip
- 8 types of plastic welding rod
- Cleaning brush
- Two easy-to-swap Soldering Iron Tips
- Stainless steel reinforcing mesh
- Instructional video access (via QR code sheet)

SETUP

1. **Unpack Components:** Carefully remove all items from the packaging and verify that all listed components are present.
2. **Connect Temperature Control:** Attach the temperature control unit to the main welder unit. Ensure a secure connection. The temperature control can be removed from its carrying case for greater mobility.
3. **Select Welding Tip:** Choose the appropriate welding tip for your specific repair task. The kit includes two different tips. Securely attach the selected tip to the welder.
4. **Power Connection:** Plug the welder into a standard AC power outlet.
5. **Ventilation:** Ensure your workspace is well-ventilated to dissipate any fumes generated during welding.

OPERATING INSTRUCTIONS

1. **Identify Plastic Type:** Determine the type of plastic you are repairing. This is crucial for selecting the correct welding rod. Refer to the included instructional materials for guidance on plastic identification.
2. **Select Welding Rod:** Choose one of the eight included welding rods that best matches the plastic type. For problem plastics like TEO, TPO, and Polypropylene, use the FiberFlex universal rod.
3. **Set Temperature:** Use the temperature control dial to set the appropriate temperature for the plastic you are welding. High-melting-point plastics (e.g., nylon radiator tanks) will require higher temperatures, which the 200-watt ceramic core element can achieve.
4. **Pre-Weld Preparation:** Clean the area to be welded thoroughly. For cracks, you may need to create a V-groove along the crack to allow for better rod penetration. For structural repairs, stainless steel reinforcing mesh can be used.
5. **Perform Weld:** Allow the welder to reach the set temperature. Apply the welding rod to the repair area, guiding it with the heated tip. Melt the rod into the plastic, ensuring a strong bond. Work slowly and consistently.
6. **Cooling:** Allow the welded area to cool naturally. Do not attempt to force cooling, as this can weaken the weld.
7. **Finishing:** Once cooled, the welded area can be sanded, trimmed, or painted as needed for a smooth finish.

Tips for Best Results:

- Practice on scrap plastic before attempting critical repairs.
- Maintain a consistent speed and pressure during welding.
- For instructional videos, scan the QR code sheet included in your kit.

MAINTENANCE

- **Tip Cleaning:** Regularly clean the welding tips using the provided cleaning brush to remove plastic residue. Ensure the welder is unplugged and cooled before cleaning.
- **Storage:** Store the welder and its components in a clean, dry place, preferably in its original carrying case, to protect it from dust and damage.

- **Cord Inspection:** Periodically inspect the power cord for any signs of damage, fraying, or cuts. Do not use the welder if the cord is damaged.
- **General Cleaning:** Wipe down the main unit and temperature control with a dry cloth to keep them free of debris.

TROUBLESHOOTING

Welder not heating:

Ensure the power cord is securely plugged into a working outlet. Check the temperature control setting. If the issue persists, contact customer support.

Poor weld quality:

Verify that the correct welding rod is being used for the plastic type. Adjust the temperature setting to match the plastic's melting point. Ensure the repair area is clean and properly prepared. Practice welding technique on scrap material.

Excessive smoke/fumes:

Ensure adequate ventilation in your workspace. The temperature may be too high for the plastic being welded; try reducing the temperature setting.

SPECIFICATIONS

Brand	Polyvance
Model Number	5700HT
Power Source	AC
Wattage	200 watts
Upper Temperature Rating	250 °C
Heating Element	Ceramic
Special Feature	Portable
Head Style	Pencil
Material	Plastic
Included Components	8 types of plastic welding rod, Cleaning brush, Soldering Iron Tips, Stainless steel reinforcing mesh

WARRANTY INFORMATION

Polyvance products are manufactured to high-quality standards. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official Polyvance website. Keep your purchase receipt as proof of purchase for any warranty claims.

SUPPORT

If you require assistance, have questions about your Polyvance 5700HT Mini Weld Model 7 Airless Plastic Welder, or need to order replacement parts, please contact Polyvance customer support. You can typically find contact information (phone number, email, or support portal) on the manufacturer's website or in the documentation provided with your product.

For additional resources and instructional videos, please visit the official Polyvance website or scan the QR code provided in your

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question