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Burndy BS-2012

Burndy BS-2012 BCR-1 Type Single Shot Mold Splice Instruction Manual

Model: BS-2012

Introduction

This manual provides detailed instructions for the safe and effective use of the Burndy BS-2012 BCR-1 Type Single Shot Mold Splice. This product is designed for making reliable cable connections onto ground rods using an exothermic welding process. Please read this manual thoroughly before use to ensure proper operation and safety.

Safety Information

WARNING: Exothermic welding involves high temperatures and molten metal. Failure to follow safety precautions can result in severe injury or property damage.

- Always wear appropriate Personal Protective Equipment (PPE), including safety glasses, gloves, and long-sleeved clothing.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not touch the mold or connection immediately after welding, as they will be extremely hot.
- Keep a fire extinguisher (Class D for metal fires) readily available.
- Store welding materials in a dry, secure location away from ignition sources.
- Refer to local safety regulations and guidelines for exothermic welding.

What's in the Box

The Burndy BS-2012 Single Shot Mold Splice package typically includes:

- BCR-1 Type Single Shot Mold (disposable ceramic mold)
- Welding material (pre-measured charge)
- Retaining disc
- Sleeve (if applicable for specific connections)
- *Note: A Flint Ignitor is required for ignition and is sold separately.*



Image: The Burndy BS-2012 BCR-1 Type Single Shot Mold Splice. This image shows the gray, rectangular ceramic mold with a metal retaining wire and a label indicating "BURNDYWeld".

Setup

1. **Prepare the Connection Surfaces:** Ensure the ground rod and cable surfaces are clean, dry, and free of grease, paint, or oxidation. Use a wire brush if necessary.
2. **Position the Ground Rod:** Insert the 5/8-inch ground rod into the designated opening in the bottom of the mold. Ensure it is seated firmly.
3. **Position the Cable:** Insert the #8 AWG stranded or #6/#8 AWG solid cable into the appropriate opening in the mold. Ensure proper contact with the ground rod.
4. **Secure the Mold:** The single-shot mold is designed to be self-contained. Ensure the mold is properly aligned and stable around the connection points.
5. **Insert Retaining Disc:** Place the metal retaining disc at the bottom of the mold cavity, over the connection point, to prevent welding material from falling through prematurely.
6. **Add Welding Material:** Carefully pour the entire pre-measured welding material charge into the mold cavity on top of the retaining disc. Do not overfill or spill.

Operating Instructions

1. **Ignition:** Using a Flint Ignitor (sold separately), direct the flame into the ignition chamber of the mold, typically located at the top.
2. **Initiate Reaction:** The welding material will ignite, creating an exothermic reaction that melts the material and forms a molecular bond between the cable and the ground rod.
3. **Allow Cooling:** After the reaction subsides, allow the mold and connection to cool for several minutes. The mold will be extremely hot.
4. **Remove Mold:** Once cooled sufficiently, carefully break away the disposable ceramic mold. A hammer or similar

tool may be used to gently tap and break the mold.

5. **Inspect Connection:** Visually inspect the completed weld for any defects, such as porosity or incomplete fusion. The connection should be solid and uniform.

Maintenance

The Burndy Single Shot Mold is a disposable, single-use product and requires no maintenance. However, proper care of your Flint Ignitor and storage of welding materials are crucial:

- **Ignitor Maintenance:** Keep your Flint Ignitor clean and dry. Replace flints as needed to ensure reliable ignition.
- **Material Storage:** Store unused welding material charges in their original, sealed packaging in a cool, dry place, away from moisture and direct sunlight. Moisture can compromise the welding material.
- **Disposal:** Dispose of used ceramic molds and any waste material according to local regulations for construction or industrial waste.

Troubleshooting

If you encounter issues during the welding process, consider the following:

- **Incomplete Weld/Porosity:**
  - Ensure surfaces (ground rod, cable) are thoroughly clean and dry.
  - Verify the mold is properly seated and sealed.
  - Check if the welding material was exposed to moisture. Use a fresh charge.
- **Difficulty Igniting:**
  - Ensure the Flint Ignitor is producing a strong, consistent spark. Replace flint if necessary.
  - Verify the welding material is dry and not clumped.
- **Mold Cracking Prematurely:**
  - Ensure the mold is not damaged prior to use.
  - Verify proper seating of the ground rod and cable to avoid undue stress on the mold.

Specifications

Attribute	Detail
Model Number	BS-2012
Type	BCR-1 Single Shot Mold Splice
Ground Rod Size	5/8-inch
Cable Size (Stranded)	#8 AWG
Cable Size (Solid)	#6 AWG, #8 AWG
Application	Cable connections onto ground rods
Certification	UL Listed
Manufacturer	Burndy

Package Dimensions	8.3 x 6 x 4.8 inches
Weight	6.25 Pounds

Warranty and Support

For specific warranty information and technical support regarding your Burndy products, please refer to the official Burndy website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Burndy Contact Information:

- Official Website: www.burndy.com (Please check the official website for the most current contact details.)
- Customer Service: Refer to the website for phone numbers or email contacts.

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