Lenox 3007676L

Lenox 76L 4-3/4 Inch Bi-Metal Hole Saw Instruction Manual

Model: 3007676L

Product Overview

The Lenox 76L 4-3/4 Inch Bi-Metal Hole Saw (Model 3007676L) is designed for cutting precise holes in various materials, primarily metal. Its bi-metal construction ensures durability and efficient cutting performance. This manual provides essential information for the safe and effective use, maintenance, and storage of your hole saw.

Image: The Lenox 4-3/4 Inch Bi-Metal Hole Saw, featuring its white body, black cutting teeth, and the Lenox logo.

Safety Information

Always prioritize safety when using power tools. Failure to follow these instructions may result in injury or damage to the

tool.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection.
- Ensure the workpiece is securely clamped before drilling to prevent rotation.
- Use the correct arbor for your hole saw and ensure it is properly tightened in the drill chuck.
- Do not force the hole saw; allow the tool to do the work.
- Keep hands and loose clothing away from rotating parts.
- Disconnect power from the drill before changing accessories or performing maintenance.
- Store the hole saw in a dry, safe place away from children.

Setup

1. **Select the Correct Arbor:** Choose an arbor compatible with your drill and the Lenox 4-3/4 inch hole saw. Ensure the pilot drill bit is sharp and securely fastened.
2. **Attach Hole Saw to Arbor:** Thread the hole saw onto the arbor until it is hand-tight. Some arbors may require a wrench for final tightening. Ensure the drive pins (if present on the arbor) engage with the holes on the hole saw.
3. **Secure Arbor in Drill Chuck:** Insert the arbor shank into the drill chuck and tighten it securely. Ensure the arbor is centered and not wobbling.
4. **Prepare Workpiece:** Mark the center of the desired hole. Secure the workpiece firmly to prevent movement during drilling.

Operating Instructions

1. **Start Drilling:** Position the pilot drill bit on the marked center of the hole. Start the drill at a low to medium speed.
2. **Engage Hole Saw:** Once the pilot drill has penetrated the material, gently apply pressure to allow the hole saw teeth to engage the workpiece.
3. **Maintain Consistent Pressure:** Apply steady, even pressure. Avoid excessive force, which can cause overheating or binding.
4. **Use Coolant (for Metal):** When cutting metal, it is highly recommended to use a cutting fluid or coolant to extend the life of the hole saw and improve cutting efficiency.
5. **Clear Chips:** Periodically withdraw the hole saw from the cut to clear chips and allow the saw to cool, especially when cutting deep holes or tough materials.
6. **Complete the Cut:** Continue drilling until the hole is complete. Reduce pressure as you near the end of the cut to prevent breakthrough shock.
7. **Remove Slug:** After cutting, carefully remove the circular slug from inside the hole saw. Many Lenox hole saws feature side slots for easy slug removal.

Note: The optimal drilling speed varies depending on the material being cut. Generally, harder materials require slower speeds, while softer materials can tolerate higher speeds. Refer to your drill's manual for speed settings.

Maintenance

- **Cleaning:** After each use, clean the hole saw to remove any debris, metal chips, or cutting fluid residue. A wire brush can be used for the teeth.
- **Inspection:** Regularly inspect the teeth for wear, damage, or dullness. A dull hole saw will cut slowly and generate excessive heat.
- **Storage:** Store the hole saw in a dry environment to prevent rust. Keep it in its original packaging or a tool case to

protect the teeth from damage.

- **Lubrication:** For long-term storage, a light coat of rust-preventative oil can be applied to the metal surfaces.

Troubleshooting

Problem	Possible Cause	Solution
Slow cutting / Excessive heat	Dull teeth, incorrect speed, insufficient coolant.	Replace hole saw, adjust drill speed, use cutting fluid.
Hole saw binding / Stalling	Too much pressure, chips not clearing, workpiece not secure.	Reduce pressure, clear chips, secure workpiece firmly.
Inaccurate holes	Loose arbor, dull pilot drill, improper starting.	Tighten arbor, replace pilot drill, ensure proper centering.

Specifications

Attribute	Value
Brand	Lenox
Model Number	3007676L
Diameter	4-3/4 Inch
Material	Bi-Metal
Compatible Material	Metal
Package Dimensions	7.09 x 6.57 x 2.44 inches
Item Weight	1.3 Pounds
Manufacturer	American Saw & Manufacturing Co. / Lenox
UPC	799360184955

Warranty and Support

For information regarding warranty coverage, technical support, or to purchase genuine Lenox accessories, please visit the official Lenox website or contact their customer service. You can also find more information on the Lenox Store on Amazon.