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› Greenlee Hole Saw Maintenance Kit Model 890 User Manual

Greenlee 890



Greenlee Hole Saw Maintenance Kit Model 890

Comprehensive Instruction Manual

1. PRODUCT OVERVIEW

The Greenlee Model 890 Bi-Metal Hole Saw Maintenance Kit is a comprehensive set designed for various cutting applications. This 20-piece kit includes a range of bi-metal hole saw sizes from 3/4 inch to 4-3/4 inches, suitable for cutting through materials such as steel, tin, aluminum, fiberglass, wood, and plastic. The saws feature a variable pitch tooth design for efficient cutting.



Figure 1: The Greenlee Model 890 Hole Saw Maintenance Kit, showcasing the assortment of bi-metal hole saws and accessories neatly organized within its durable green carrying case.

The kit is housed in a high-impact, rugged plastic carrying case for convenient storage and transport. Please note that arbors are not included with this kit and must be acquired separately.

2. SETUP AND SAFETY

2.1 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, when operating power tools.
- Ensure the workpiece is securely clamped before drilling to prevent movement and potential injury.

- Disconnect power from the drill before changing hole saws or arbors.
- Do not force the hole saw; allow the tool to do the work. Excessive pressure can lead to premature wear or breakage.
- Keep hands and loose clothing away from rotating parts.

2.2 Kit Contents and Preparation

Before use, inspect all components of the kit for any signs of damage or wear. Select the appropriate hole saw size for your application. This kit requires a compatible arbor (not included) to attach the hole saw to your drill. Ensure the arbor is securely fastened to both the drill chuck and the hole saw.

- Identify the correct arbor for the selected hole saw.
- Thread the hole saw onto the arbor until it is finger-tight, then use a wrench if necessary to ensure a snug fit.
- Insert the arbor into the drill chuck and tighten securely.

3. OPERATING INSTRUCTIONS

3.1 Material Compatibility

Greenlee bi-metal hole saws are designed for cutting a variety of materials, including:

- Steel
- Tin
- Aluminum
- Fiberglass
- Wood
- Plastic

3.2 Cutting Procedure

1. Mark the center point for the hole on your workpiece.
2. Position the pilot drill of the arbor on the marked center point.
3. Start the drill at a low to medium speed, applying gentle, consistent pressure.
4. Once the hole saw teeth engage the material, increase speed as appropriate for the material, maintaining steady pressure.
5. For metal cutting, consider using a cutting lubricant to extend the life of the hole saw and improve cutting efficiency.
6. The maximum cutting depth for these hole saws is 1-5/8 inches.
7. After cutting, carefully remove the hole saw from the workpiece. Allow the saw to cool before handling.

4. MAINTENANCE

Proper maintenance extends the life of your Greenlee hole saws.

- **Cleaning:** After each use, remove any debris, chips, or residue from the hole saw teeth and body. A brush or compressed air can be used.
- **Inspection:** Regularly inspect the teeth for signs of wear, dullness, or damage. A dull saw will require more force and generate more heat, reducing efficiency and potentially damaging the saw or workpiece.
- **Storage:** Store the hole saws in their original carrying case to protect them from damage and corrosion. Keep them in a dry environment.
- **Lubrication:** For metal cutting, consistent use of cutting fluid is recommended to reduce friction and heat, which helps

preserve the sharpness of the teeth.

5. TROUBLESHOOTING

This section addresses common issues encountered during the use of hole saws.

Problem	Possible Cause	Solution
Hole saw not cutting efficiently / Excessive heat	Dull teeth, incorrect speed, insufficient pressure, no lubricant (for metal)	Replace dull saw, adjust drill speed, apply consistent pressure, use cutting lubricant for metal.
Arbor stripping out / becoming unusable	Improper tightening, excessive force, worn arbor threads	Ensure arbor is securely tightened to both drill and hole saw. Avoid excessive force. Replace worn arbors.
Hole saw binding in material	Chips not clearing, excessive feed pressure, material too thick	Periodically clear chips, reduce feed pressure, ensure material thickness is within saw's capacity.

6. SPECIFICATIONS

Feature	Detail
Brand	Greenlee
Model Number	890
Number of Pieces	20
Tooth Material	Bi-Metal
Arbor Design	Not Included
Range of Saw Sizes	3/4 In. to 4-3/4 In.
Max. Cutting Depth	1-5/8 In.
Compatible Materials	Steel, Tin, Aluminum, Fiberglass, Wood, Plastic
Teeth per Inch	Variable Pitch
Product Dimensions	18"L x 18"W
Item Weight	4.95 Pounds
UPC	783310034797
Country of Origin	China

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This Greenlee product comes with a Limited Warranty. For specific details regarding the terms and conditions of the warranty, including coverage period and what is covered, please refer to the warranty documentation included with your purchase or visit the official Greenlee website.

7.2 Customer Support

For technical assistance, product inquiries, or warranty claims, please contact Greenlee customer support. You can find contact information, including phone numbers and online support options, on the official Greenlee website:

www.greenlee.com

When contacting support, please have your product model number (890) and purchase details readily available.

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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