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> Amana 55282 Countersink Cutter User Manual

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Amana 55282 Countersink Cutter User Manual

Model: 55282 | Brand: Amana Tool

PRODUCT OVERVIEW

The Amana 55282 is a carbide-tipped flat bottom countersink cutter designed for creating precise recesses for round head screws and hex bolts. It features a quick-release hex shank for easy installation and removal. This tool is ideal for woodworking applications where a clean, flat seating surface for fasteners is required.



Figure 1: Front view of the Amana 55282 Countersink Cutter, showing the pilot drill and hex shank.

SAFETY INSTRUCTIONS

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- Always wear appropriate personal protective equipment (PPE), including safety glasses and hearing protection, when operating power tools.
 - Ensure the workpiece is securely clamped before drilling to prevent movement.
 - Do not operate the tool if the bit is damaged or dull. Replace with a genuine Amana Tool replacement bit (630-40255282).
 - Keep hands and loose clothing away from rotating parts.
 - Disconnect power from the drill or driver before changing bits or performing maintenance.
 - Use the correct speed setting on your drill for the material being worked on.

SETUP

1. **Inspect the Bit:** Before each use, visually inspect the Amana 55282 countersink cutter for any signs of damage, wear, or dullness. Ensure the pilot drill is sharp and securely seated.
2. **Select the Right Tool:** This countersink cutter is designed for use with drills or impact drivers that accept a 1/4-inch hex shank.
3. **Insert the Bit:**
 - Ensure your drill or driver is unplugged or its battery is removed.
 - Open the chuck of your drill or driver.
 - Insert the 1/4-inch hex shank of the Amana 55282 into the chuck.
 - Tighten the chuck securely to prevent the bit from slipping during operation.
4. **Adjust Pilot Drill Depth (if applicable):** The pilot drill depth is fixed for this model. For consistent depths, consider using external drill bit stops if precise depth control is critical for your application.



Figure 2: Side view of the Amana 55282 Countersink Cutter, highlighting the hex shank and pilot drill.

OPERATING INSTRUCTIONS

1. **Prepare Workpiece:** Securely clamp the material you intend to drill. This prevents the workpiece from moving and ensures a clean cut.
2. **Mark Drilling Location:** Clearly mark the exact spot where you intend to drill the pilot hole and countersink.
3. **Drilling:**
 - Position the tip of the pilot drill on your marked location.
 - Start the drill at a moderate speed.
 - Apply steady, even pressure. Allow the bit to do the work. Do not force the bit.
 - Drill until the countersink portion of the bit creates the desired depth for your screw head. The flat bottom design ensures a flush fit for flat-bottomed fasteners like round head screws or hex bolts.
 - Avoid over-drilling, which can lead to tear-out or an excessively deep countersink.
4. **Clear Chips:** Periodically withdraw the bit slightly to clear wood chips and debris from the hole, especially when drilling deeper holes.
5. **Repeat:** Repeat the process for all desired countersink locations.



Figure 3: Diagram illustrating the dimensions of the Amana 55282 Countersink Cutter and its application for flat-bottomed screws.

MAINTENANCE

- **Cleaning:** After each use, clean the countersink cutter to remove any wood dust, resin, or debris. A soft brush or compressed air can be used.
- **Storage:** Store the bit in a protective case or container to prevent damage to the carbide tips and pilot drill. Keep it in a dry environment to prevent rust.
- **Sharpening:** Carbide-tipped bits generally require specialized sharpening services. Do not attempt to sharpen the carbide tips yourself unless you have the proper equipment and expertise.
- **Replacement:** If the pilot drill becomes dull or damaged, it can be replaced with Amana Tool replacement drill bit 630-40255282. If the carbide countersink portion shows significant wear or chipping, the entire bit should be replaced.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Rough or torn-out countersink	Dull bit, incorrect drill speed, forcing the bit, workpiece not secured.	Replace or sharpen bit, adjust drill speed, apply steady pressure, secure workpiece.
Bit overheating	Dull bit, excessive pressure, incorrect drill speed, insufficient chip clearance.	Replace or sharpen bit, reduce pressure, adjust drill speed, clear chips frequently.
Inconsistent countersink depth	Inconsistent pressure, lack of depth stop.	Maintain consistent pressure, consider using an external drill bit stop for precision.
Bit slipping in chuck	Chuck not tightened sufficiently, dirty shank.	Ensure chuck is fully tightened, clean the hex shank before insertion.

SPECIFICATIONS

Attribute	Value
Model Number	55282
Brand	Amana Tool
Material	Carbide-tipped
Shank Type	Hex (1/4 inch)
Countersink Diameter (D)	3/8 inch
Pilot Drill Diameter (D1)	3/16 inch
Overall Length (L)	2-3/16 inches
Recommended Surface	Wood
Replacement Pilot Drill	630-40255282

WARRANTY AND SUPPORT

Amana Tool products are manufactured to high standards. For specific warranty information, please refer to the official Amana Tool website or contact their customer support directly. Keep your purchase receipt as proof of purchase. For technical assistance or inquiries regarding replacement parts, please visit the Amana Tool official website or contact their customer service department. Contact information can typically be found on their website or product packaging. *Note: International products may have separate terms and conditions, are sold from abroad, and may differ from local products, including fit, age recommendations, and product language, labeling, or instructions.*