

Crain 835

Crain No. 835 Heavy-Duty Undercut Saw Instruction Manual

Model: 835 | Brand: Crain

1. INTRODUCTION AND OVERVIEW

The Crain No. 835 Heavy-Duty Undercut Saw Kit is designed for precise undercutting of various surfaces, including walls, door jambs, doors, inside corners, and most toe spaces. This powerful saw offers enhanced performance compared to previous models, featuring a 13 AMP motor for efficient operation. Its adjustable cutting height and dual-angle depth gauge ensure accurate and level cuts, making it an essential tool for flooring professionals.

2. COMPONENTS AND WHAT'S INCLUDED

The Crain No. 835 Saw Kit comes complete with the following components:

- Crain No. 835 Heavy-Duty Undercut Saw Unit
- No. 805 Masonry Blade (for undercutting hearths and other masonry materials)
- No. 836 Carbide Tipped Steel Blade (6-1/2" diameter, for general undercutting of wood and similar materials)
- 1812-P Blade Clamp (required for use with No. 805 Masonry Blade and optional 822 Diamond Blade)
- Plastic Carrying Case
- Hex Wrench (for blade removal and installation)
- Instruction Manual (this document)



Figure 2.1: The Crain No. 835 Heavy-Duty Undercut Saw Kit, showing the saw, blades, and carrying case.

3. SETUP

Before operating the Crain No. 835 Undercut Saw, ensure you have read and understood all safety warnings. Proper setup is crucial for safe and effective use.

3.1 Blade Installation

1. Ensure the saw is unplugged from the power source before handling blades.
2. Using the provided hex wrench, loosen the blade clamp screw.
3. Carefully remove the existing blade (if any) and install the desired blade (Carbide Tipped Steel for wood, Masonry Blade for masonry). Ensure the blade is seated correctly on the arbor.
4. If using the No. 805 Masonry Blade or optional 822 Diamond Blade, attach the 1812-P Blade Clamp.
5. Tighten the blade clamp screw securely with the hex wrench.

3.2 Height and Depth Adjustment

The saw features adjustable cutting height and depth to accommodate various materials and applications.

- **Height Adjustment:** The height of cut is easily adjustable from flush to 1 inch above the floor, with 3/32 inch graduations. The large height adjuster base helps prevent tipping and ensures accurate, level cutting.
- **Depth Adjustment:** The dual-angle depth gauge allows undercutting at a 'straight on' or 45-degree

angle. The depth gauge is graduated in 1/8 inch increments, with a 1-5/8 inch maximum depth of cut. Adjust the depth carefully to avoid cutting into structural elements.

4. OPERATING INSTRUCTIONS

The Crain No. 835 Undercut Saw is designed for efficient and precise cutting. Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and gloves, during operation.

4.1 General Operation

1. Ensure the work area is clear of obstructions and debris.
2. Set the desired cutting height and depth according to the material being undercut.
3. Plug the saw into a 120 VAC, 60Hz, 13 AMP power source. The saw is double insulated for safety.
4. Position the saw firmly against the surface to be undercut.
5. Engage the power switch and allow the blade to reach full speed (7,000 RPM) before beginning the cut.
6. Guide the saw smoothly along the cutting line, maintaining firm pressure. Do not force the saw.
7. After completing the cut, release the power switch and allow the blade to stop completely before lifting the saw.



Figure 4.1: The Crain No. 835 Undercut Saw positioned for undercutting a wall, demonstrating proper handling.

4.2 Specific Applications

- **Undercutting Walls and Door Jamb:** The saw is ideal for undercutting these areas to allow for new

flooring installation. Adjust the height to match the flooring thickness.

- **Undercutting Doors:** The 6-1/2" diameter No. 836 Carbide Tipped Steel Blade can fully undercut most doors in place.
- **Undercutting Hearths:** Use the No. 805 Masonry Blade for undercutting hearths and other stone or concrete surfaces.

4.3 Video Demonstration

A video demonstrating the use of the Crain No. 835 Undercut Saw for leveling concrete around steps and undercutting for flooring installation is available. This video showcases the tool's ability to cut through various materials, including old hardwood trim and concrete, using different blades. It highlights the precision of the depth stop and the effectiveness of the dust collection port when connected to a shop vacuum.

Note: This video is provided by an independent content creator and is for informational purposes only. Always refer to the official instruction manual for detailed safety and operational guidelines.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Crain No. 835 Undercut Saw.

- **Cleaning:** After each use, unplug the saw and clean off any dust or debris from the motor housing, blade guard, and adjustment mechanisms. Use a dry cloth or soft brush.
- **Blade Inspection:** Regularly inspect blades for wear, damage, or dullness. Replace dull or damaged blades immediately to ensure clean cuts and prevent strain on the motor.
- **Cord Inspection:** Check the 7-foot, 14/2 cord for any signs of damage, cuts, or fraying. Do not use the saw if the cord is damaged.
- **Storage:** Store the saw and its accessories in the provided plastic carrying case in a dry, secure location, away from moisture and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your Crain No. 835 Undercut Saw, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
Saw does not start	Not plugged in; power outlet issue; damaged cord; internal fault.	Check power connection; test outlet with another device; inspect cord for damage (do not use if damaged); consult qualified technician.
Poor cutting performance	Dull or incorrect blade; improper depth/height setting; forcing the saw.	Replace blade; ensure correct blade for material; adjust settings; allow saw to work at its own pace.
Excessive vibration or noise	Loose blade; damaged blade; internal component issue.	Ensure blade is securely tightened; replace damaged blade; consult qualified technician.

For issues not listed here or if solutions do not resolve the problem, contact Crain customer support or a qualified service professional.

7. SPECIFICATIONS

Specification	Value
Model Number	835
Motor Power	13 Amps (1560 Watts)
Voltage	120 Volts AC
Frequency	60 Hz
No-Load Speed	7,000 RPM
Blade Diameter	6-1/2 inches (No. 836 Carbide Tipped Steel Blade)
Max Depth of Cut	1-5/8 inches
Height Adjustment	Flush to 1 inch above floor (3/32" graduations)
Cord Length	7 feet (14/2 cord)
Insulation	Double Insulated
Item Weight	19 pounds
Dimensions (Package)	24.3 x 12.1 x 8.7 inches

8. SAFETY INFORMATION

WARNING: Always follow safety precautions to prevent injury or damage to the tool.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the saw is unplugged before making any adjustments, changing blades, or performing maintenance.
- Do not operate the saw if the blade guard is missing or not functioning properly.
- Caution: Depth of undercut should not exceed wallboard thickness (generally 1/2 inch) to avoid structural weakening caused by cutting nails, wall studs, or sill plates, and to avoid blade damage by hitting nails.
- Keep hands and body clear of the rotating blade during operation.
- Maintain a firm grip on the saw with both hands during operation.
- Avoid kickback dangers by ensuring the blade is sharp and not binding in the material.
- Do not operate in wet conditions or expose to rain.
- Keep children and bystanders away from the operating area.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts and accessories, please contact Crain Tools customer service or visit their official website. Keep your purchase receipt as proof of purchase for warranty claims.

