DEWALT DW735

DEWALT Thickness Planer Instruction Manual

Model: DW735

Brand: DEWALT

Product Overview

The DEWALT DW735 13-Inch Thickness Planer is a powerful tool designed for precision and efficiency in woodworking. It features a robust 15 Amp motor capable of handling large cuts in wide materials with ease. The three-knife cutter head operates at 10,000 RPM, ensuring a smooth finish and extended blade life. Users can select between two feed speeds: 96 cuts per inch (CPI) for dimensioning and 179 CPI for a finer finish.

Key features include:

- **Three-Knife Cutter Head:** Delivers 30% longer knife life and facilitates faster, easier knife changes.
- **Two-Speed Gear Box:** Allows optimization of cuts per inch for either dimensioning or fine finishing.
- **Fan-Assisted Chip Ejection:** Vacuums chips off the cutter head and exhausts them out of the machine, preventing debris buildup.
- **Automatic Carriage Lock:** Reduces movement that causes snipe without manual engagement.
- **Material Removal Gauge & Thickness Scale:** Provides accurate cuts with every pass.
- **Extra-Large Turret Depth Stop:** Enables easy return to frequently used thicknesses.

Setup and Installation

Before operating your DEWALT Thickness Planer, ensure it is properly set up on a stable and level surface. The unit weighs approximately 92 pounds, so consider its placement carefully.

1. **Unboxing and Inspection:** Carefully remove all components from the packaging. Verify that all included components are present: the 13-inch 2-Speed Thickness Planer, a dust hose adapter, a thickness planer crank handle, and a blade change T-wrench. Inspect for any shipping damage.
2. **Attaching Feed Tables (if applicable):** If your model includes separate infeed and outfeed tables, attach them

securely to the main unit. These tables provide additional material support and help minimize snipe. Ensure they are level with the planer bed.

3. **Installing Crank Handle:** Attach the thickness planer crank handle to the designated shaft on the side of the unit. This handle is used for precise depth adjustments.
4. **Dust Hose Adapter:** Attach the dust hose adapter to the chip ejection port at the rear of the planer. This adapter allows connection to a dust collection system or a shop vacuum for efficient chip removal.
5. **Power Connection:** Connect the planer to a 120V power source. Ensure the circuit can handle the 15 Amp motor to prevent tripping breakers.



Figure 1: The DEWALT DW735 Thickness Planer with its main components visible.

Operating Instructions

Operating the DEWALT Thickness Planer involves setting the desired thickness, selecting the appropriate feed speed, and feeding the material through the machine.

1. **Setting Thickness:** Use the crank handle to adjust the height of the cutter head. The large thickness scale and material removal gauge will assist in achieving precise dimensions. The turret depth stop allows quick setting to common thicknesses like 1/8, 1/4, 1/2, 3/4, 1, and 1 1/4 inches.
2. **Selecting Feed Speed:** Utilize the two-speed gearbox to choose between 96 CPI for faster material removal (dimensioning) or 179 CPI for a smoother finish. Shift the lever only when the machine is running.

3. **Feeding Material:** Ensure the material is free of foreign objects (nails, screws) that could damage the blades. Feed the material into the infeed table, allowing the automatic feed rollers to pull it through the planer. Maintain consistent pressure to prevent uneven cuts.
4. **Monitoring Material Removal:** The material removal gauge provides a visual indication of how much material is being removed with each pass, helping to avoid taking off too much at once, which can strain the motor or cause snipe.



Figure 2: Close-up of the two-speed gearbox for adjusting cuts per inch.



Figure 3: The material removal gauge and extra-large thickness scale for accurate adjustments.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your DEWALT Thickness Planer.

- **Blade Changes:** The planer uses reversible and disposable knives. When one side becomes dull, simply flip the blades to use the fresh edge. The included blade change T-wrench simplifies this process. Refer to the user manual for detailed instructions on safely changing blades.

- **Dust Collection System Cleaning:** Regularly empty your dust collection system or shop vacuum. The fan-assisted chip ejection system is highly efficient, meaning your collection bin can fill up quickly. Keeping the dust port clear ensures optimal performance and prevents chips from marring your material.
- **Table Waxing:** Apply a thin coat of paste wax to the infeed and outfeed tables periodically. This reduces friction and allows material to glide smoothly, further minimizing snipe and improving cut quality.
- **Roller Maintenance:** In colder environments, the rollers may become firm and lose grip. Warming them up before use and keeping them clean with a silicone spray can help maintain their effectiveness.



Figure 4: Rear view of the planer showing the dust ejection port for connecting to a collection system.

Troubleshooting

Here are some common issues and their potential solutions:

- **Snipe:** This occurs when the ends of the board are cut deeper than the middle. Ensure your infeed and outfeed tables are properly adjusted and slightly higher than the planer bed. Consistent support of the material as it enters and exits the planer is crucial.
- **Excessive Dust/Chips:** If chips are not being ejected efficiently, check that the dust hose adapter and collection system are properly connected and not clogged. The fan-assisted chip ejection system requires a clear path to function optimally.
- **Motor Bogging Down:** This usually indicates that too much material is being removed in a single pass, or the material is particularly dense. Reduce the depth of cut per pass. For very wide or hard materials, use the slower feed speed setting.
- **Rollers Losing Grip:** In cold conditions, the feed rollers can stiffen. Allow the machine to warm up, or gently warm the rollers. Applying a thin coat of paste wax or silicone spray to the tables can also improve material feeding.

- **Circuit Breaker Tripping:** The planer requires a 15 Amp circuit. Ensure it is connected to a dedicated circuit if possible, and avoid running other high-amperage tools simultaneously on the same circuit.

Specifications

Feature	Specification
Brand	DEWALT
Model Number	DW735
Power Source	Corded Electric
Amperage	15 Amps
No Load Speed	10,000 rpm (cutter head)
Max. Depth of Cut	1/8-inch
Depth Capacity	6-inch
Width Capacity	13-inch
Item Weight	90.2 pounds
Product Dimensions	24.13"L x 22"W x 18.1"H
Material	Blend (Housing), Aluminum (Base)

Warranty and Support

The DEWALT DW735 Thickness Planer comes with a comprehensive warranty package:

- **Three-Year Limited Warranty:** Covers defects in material or workmanship.
- **One-Year Free Service Contract:** Provides free maintenance of the tool and replacement of worn parts caused by normal use.
- **90-Day Money-Back Guarantee:** Allows you to return the tool for a full refund if you are not completely satisfied.

For additional support, you can refer to the officialInstallation Manual (PDF) and User Manual (PDF) available online.

For customer service inquiries, please visit the DEWALT Store on Amazon or contact their official support channels.

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