SKIL F0155665AA

SKIL 5665 AB 1250W Corded Circular Saw User Manual

Model: F0155665AA

1. Important Safety Information

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. Always wear eye protection.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

2. Product Overview

The SKIL 5665 AB Circular Saw is a powerful corded tool designed for efficient cutting of various materials, primarily wood and certain metals. It features a 1250W motor and a no-load speed of 5000 RPM, ensuring fast and precise cuts.

Key Features:

- **Powerful Motor:** 1250W motor for rapid cutting progression.
- **High Speed:** 5000 revolutions per minute for efficient material removal.
- **Easy Blade Change:** Spindle lock mechanism for quick and simple blade replacement.
- **Adjustable Cutting Depth:** Allows for precise control over cut depth.

- **Bevel Cutting:** Adjustable base plate for angled cuts up to 45 degrees.

Components:

Familiarize yourself with the main components of your circular saw before operation.

Figure 2.1: The SKIL 5665 AB Circular Saw being used to cut a wooden board. This image displays the main components including the motor housing, ergonomic handle, blade guard, and the base plate resting on the workpiece.

Figure 2.2: A detailed internal view of the circular saw's gear mechanism, illustrating the robust construction and power transmission components that drive the blade.

3. Setup and Adjustments

Before connecting the saw to the power supply, ensure all adjustments are made and the blade is securely installed.

3.1 Blade Installation and Removal

1. **Disconnect Power:** Always unplug the saw from the power outlet before performing any adjustments or maintenance.
2. **Engage Spindle Lock:** Locate and press the spindle lock button to prevent the blade from rotating.
3. **Loosen Arbor Nut:** Use the provided wrench to loosen the arbor nut that secures the blade. Turn it in the direction indicated (usually counter-clockwise).
4. **Remove Blade:** Carefully remove the outer flange and the old blade.
5. **Install New Blade:** Place the new blade onto the arbor, ensuring the teeth are pointing in the correct direction (usually indicated by an arrow on the blade and the saw).
6. **Secure Blade:** Reinstall the outer flange and tighten the arbor nut firmly with the wrench while holding the spindle lock.

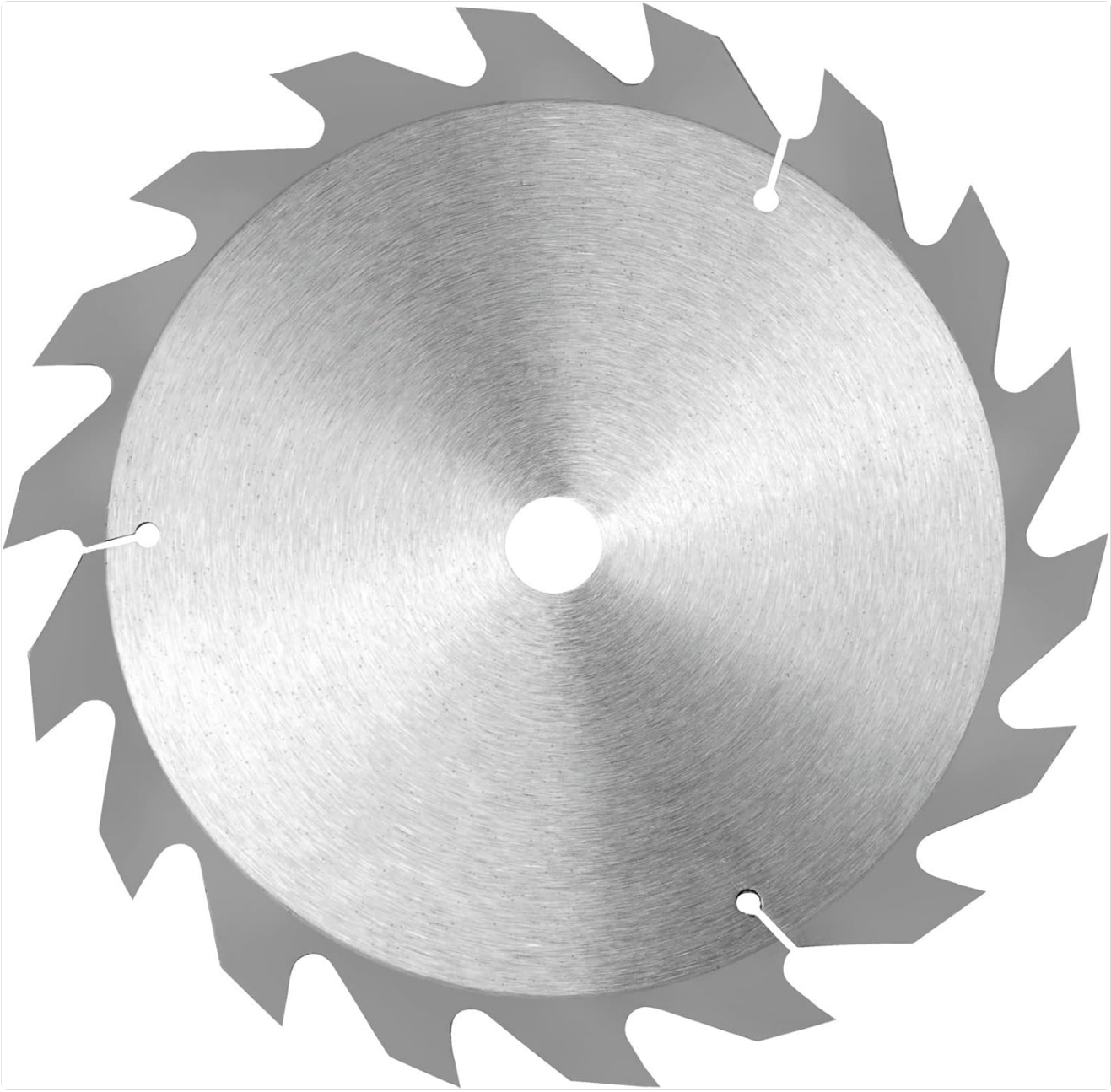

Figure 3.1: A standard circular saw blade, highlighting the teeth and arbor hole. Ensure the correct blade type and size (170mm) are used for your application.

3.2 Adjusting Cutting Depth

The cutting depth can be adjusted to match the thickness of your workpiece. This prevents unnecessary blade exposure and improves safety.

1. **Loosen Depth Adjustment Lever:** Locate the depth adjustment lever (or knob) on the side of the saw and loosen it.
2. **Set Depth:** Raise or lower the saw body relative to the base plate until the desired cutting depth is achieved. A scale is usually provided for accurate setting.
3. **Tighten Lever:** Securely tighten the depth adjustment lever to lock the setting.

3.3 Adjusting Bevel Angle (Angle Cuts)

The saw can make bevel cuts up to 45 degrees for angled edges.

1. **Loosen Bevel Adjustment Knob:** Find the bevel adjustment knob or lever, typically at the front of the saw's base plate, and loosen it.
2. **Set Angle:** Tilt the base plate to the desired angle, up to 45 degrees. Use the angle scale for precision.
3. **Tighten Knob:** Firmly tighten the bevel adjustment knob to lock the base plate in position.

Figure 3.2: The circular saw adjusted for a bevel cut, demonstrating how the base plate tilts to achieve angled cuts up to 45 degrees.

4. Operating Instructions

Always ensure your work area is clear, the workpiece is securely clamped, and you are wearing appropriate personal protective equipment (PPE) before operating the saw.

4.1 Starting and Stopping the Saw

- **Starting:** Plug the saw into a suitable 240V power outlet. Press the trigger switch to start the motor. Allow the blade to reach full speed before beginning the cut.
- **Stopping:** Release the trigger switch to stop the motor. Wait for the blade to come to a complete stop before setting the saw down or making any adjustments.

4.2 Making a Cut

1. **Mark the Cut Line:** Clearly mark your desired cut line on the workpiece.
2. **Position the Saw:** Place the front edge of the saw's base plate on the workpiece, aligning the blade with the marked cut line. Ensure the blade is not touching the workpiece when starting.
3. **Start the Saw:** Press the trigger and allow the blade to reach full speed.
4. **Begin Cutting:** Gently push the saw forward along the cut line. Maintain a steady, even pressure. Do not force the saw; let the blade do the work.
5. **Maintain Control:** Keep both hands on the saw handles for maximum control.
6. **Complete the Cut:** Continue pushing until the cut is complete. Support the off-cut piece to prevent it from binding the blade.
7. **Release Trigger:** Once the cut is finished, release the trigger and allow the blade to stop before removing the saw from the workpiece.

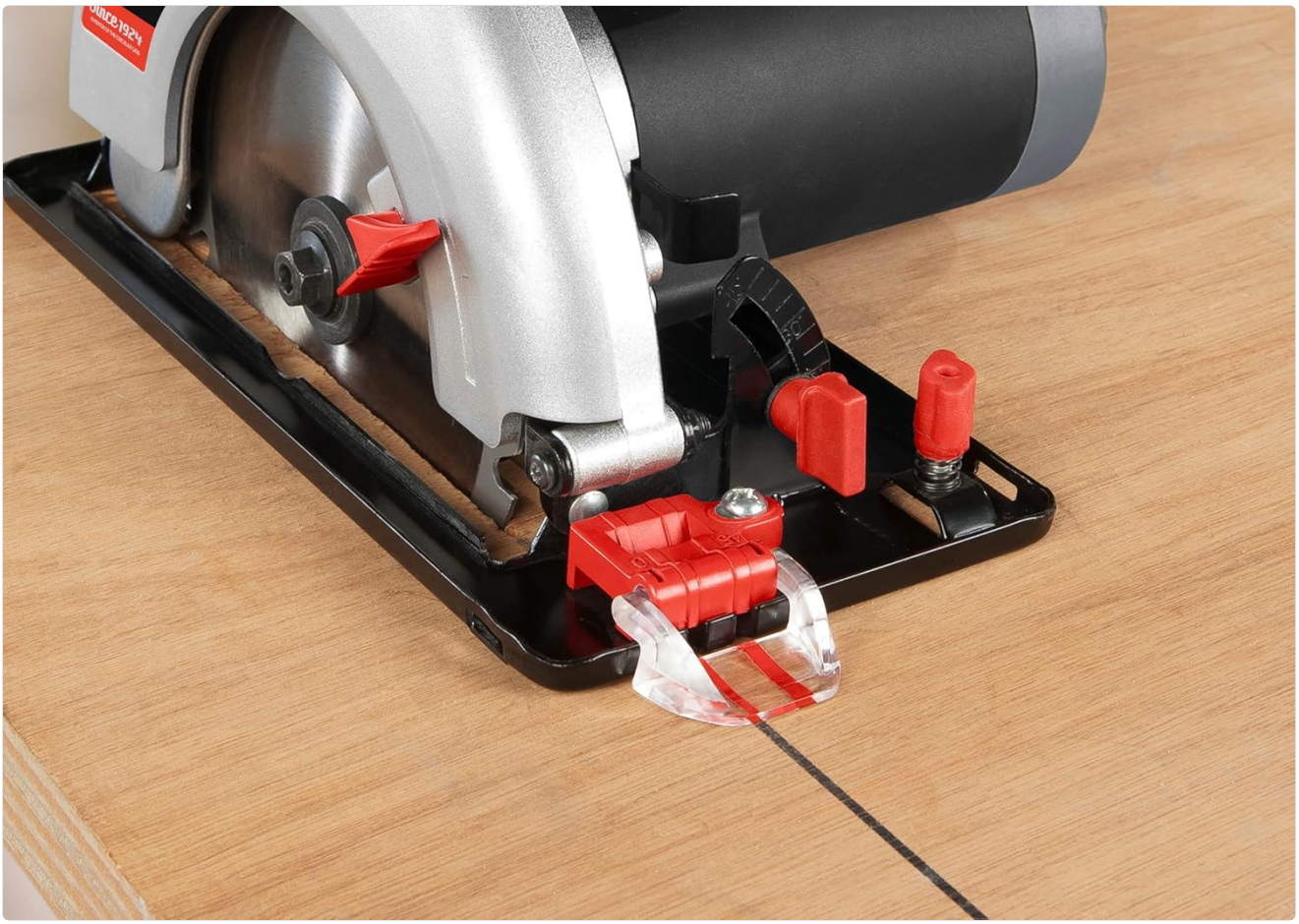

Figure 4.1: A close-up view of the saw's base plate, showing the cutting line indicator. This helps in accurately guiding the saw along the marked line on the workpiece.

4.3 Cutting Different Materials

- **Wood:** The saw is optimized for cutting wood. Use appropriate wood-cutting blades for best results.
- **Metal:** With the correct blade (e.g., a metal-cutting abrasive blade or specific carbide-tipped metal cutting blade), the saw can cut certain metals. Always consult blade manufacturer recommendations for specific materials and safety precautions.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your SKIL circular saw. Always disconnect the saw from the power supply before any maintenance.

5.1 Cleaning

- **Exterior:** Wipe the exterior of the saw with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation Openings:** Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- **Blade Guard:** Ensure the lower blade guard moves freely and is not obstructed by sawdust or debris. Clean it regularly.

5.2 Blade Inspection and Replacement

- **Inspection:** Regularly inspect the saw blade for dullness, cracks, or missing teeth. A dull or damaged blade can cause kickback and poor cut quality.
- **Replacement:** Replace damaged or dull blades immediately. Refer to Section 3.1 for blade installation and removal instructions. Always use blades of the correct diameter (170mm) and arbor size.

5.3 Storage

Store the saw in a dry, secure location out of reach of children. Protect the blade from damage during storage.

6. Troubleshooting

This section addresses common issues you might encounter with your circular saw. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Saw does not start.	No power supply; faulty switch; internal wiring issue.	Check power connection and outlet. Ensure switch is fully engaged. If problem persists, seek professional service.
Blade binds or cuts slowly.	Dull or dirty blade; incorrect blade for material; workpiece not properly supported; forcing the saw.	Replace or clean blade. Use appropriate blade for material. Secure workpiece. Allow saw to cut at its own pace.
Inaccurate cuts.	Blade not properly aligned; base plate not securely tightened; worn blade.	Check blade alignment. Ensure depth and bevel adjustments are locked. Replace worn blade.
Excessive vibration or noise.	Loose blade; damaged blade; internal component issue.	Check blade for secure mounting and damage. If damaged, replace. If problem persists, seek professional service.

7. Technical Specifications

Below are the technical specifications for the SKIL 5665 AB Circular Saw (Model F0155665AA).

Specification	Value
Model Number	F0155665AA
Power Input	1250 Watts
Voltage	240 Volts
No-Load Speed	5000 RPM
Blade Diameter	170 Millimeters
Max. Bevel Angle	45 Degrees
Blade Material	High-speed steel
Recommended Surface	Wood, Metal
Weight	3600 Grams
Power Source	Corded Electric

8. Warranty and Customer Support

For warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official SKIL website. Keep your purchase receipt as proof of purchase.
SKIL Official Website: www.skil.com