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› AEG 18V PRO18V Brushless Circular Saw User Manual

AEG 4935479661

AEG 18V PRO18V Brushless Circular Saw User Manual

Model: BKS 18BL2-0 (Ø 190 mm - Brushless)

1. INTRODUCTION AND PRODUCT OVERVIEW

Thank you for choosing the AEG 18V PRO18V Brushless Circular Saw. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read it thoroughly before first use and keep it for future reference.

The AEG BKS 18BL2-0 is a powerful and durable cordless circular saw designed for professional and individual use. It features a brushless motor for enhanced performance, autonomy, and longevity. With a 190mm blade, it offers a cutting depth of up to 65mm and a speed of 5400 RPM, making it ideal for cutting wooden beams, plastics, floors, and parquets.



Figure 1: AEG 18V PRO18V Brushless Circular Saw (BKS 18BL2-0)

This image shows the main view of the AEG 18V PRO18V Brushless Circular Saw, highlighting its ergonomic design and the 190mm blade. The saw is black and orange, featuring the AEG logo prominently on the blade guard.

This tool is part of the AEG PRO18V concept, meaning all AEG PRO18V Lithium batteries (not included) are compatible and backward compatible with all tools in the PRO18V range, allowing for flexible expansion of your tool collection.



Figure 2: AEG PRO18V Ecosystem

This image illustrates the extensive range of AEG PRO18V tools, all powered by the same battery system. Various power tools are displayed on workbenches, emphasizing the versatility and compatibility of the PRO18V battery platform.

2. SAFETY INFORMATION

WARNING: Read 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.

2.1 General Power Tool Safety

- **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:** This is a cordless tool. Ensure batteries are charged in a well-ventilated area. Do not expose battery packs or tools to fire or excessive temperature.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use a dust mask if operations create dust. Dress properly; avoid loose clothing or jewelry.

2.2 Circular Saw Specific Safety

- **Hold the tool firmly:** Always hold the circular saw with both hands to maintain control, especially during start-up and cutting.
- **Keep hands away from cutting area:** Never reach underneath the workpiece or near the blade while the saw is operating.
- **Ensure blade guard is functioning:** The lower guard should automatically close over the blade when the saw is removed from the workpiece. Never jam or tie the guard in the open position.
- **Secure workpiece:** Always clamp or otherwise secure the workpiece to a stable platform. Do not hold the workpiece by hand or across your leg.
- **Avoid kickback:** Kickback is a sudden reaction to a pinched, bound, or misaligned saw blade. Always maintain a firm grip, position your body and arm to allow you to resist kickback forces.
- **Use correct blade:** Only use blades that are the correct size and type for the material being cut and for the saw. The included blade is 190mm with a 30mm bore.

3. SETUP

3.1 Unpacking

Carefully remove the circular saw and all accessories from the packaging. Inspect for any damage that may have occurred during shipping. The package includes: 1 x circular saw, 1 x 190mm blade, and 1 x parallel guide.

3.2 Battery Installation

This tool is supplied without a battery or charger. To install a PRO18V battery (sold separately):

1. Ensure the tool is switched off.
2. Align the battery pack with the battery port on the tool.
3. Slide the battery into the port until it clicks securely into place.

PRO 18v

PRO TOOLS. ONE BATTERY.



Figure 3: Back view of AEG Circular Saw

This image shows the rear of the AEG circular saw, providing a clear view of the battery port where the PRO18V battery pack is inserted. The handle and dust ejection port are also visible.

3.3 Blade Installation

Always disconnect the battery pack before installing or changing the blade.

1. Press the spindle lock button to prevent the blade from rotating.
2. Use the provided wrench to loosen the blade retaining screw by turning it counter-clockwise.
3. Remove the outer flange and the old blade (if applicable).
4. Clean the blade flanges.
5. Place the new 190mm blade onto the spindle, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the blade guard).
6. Replace the outer flange and tighten the blade retaining screw clockwise. Ensure it is securely fastened.

3.4 Adjusting Cutting Depth and Bevel Angle

The saw allows for precise adjustment of cutting depth and bevel angle for various applications.

- **Cutting Depth Adjustment:** Loosen the depth adjustment lever, move the base plate up or down to achieve the desired cutting depth, and then securely tighten the lever.
- **Bevel Angle Adjustment:** Loosen the bevel adjustment lever, tilt the base plate to the desired angle (up to 56 degrees), and then securely tighten the lever.

3.5 Parallel Guide Installation

The parallel guide assists in making straight cuts parallel to the edge of the workpiece.

1. Slide the parallel guide into the slots on the front of the saw's base plate.
2. Adjust the guide to the desired width from the blade.
3. Tighten the locking screw to secure the parallel guide in place.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Starting the Saw:** Ensure the battery is inserted. Depress the safety lock-off button (if present) and then squeeze the trigger switch to start the saw.
- **Stopping the Saw:** Release the trigger switch. The blade will stop quickly due to the electric brake.

4.2 Cutting Techniques

Always ensure the workpiece is stable and properly supported before cutting.

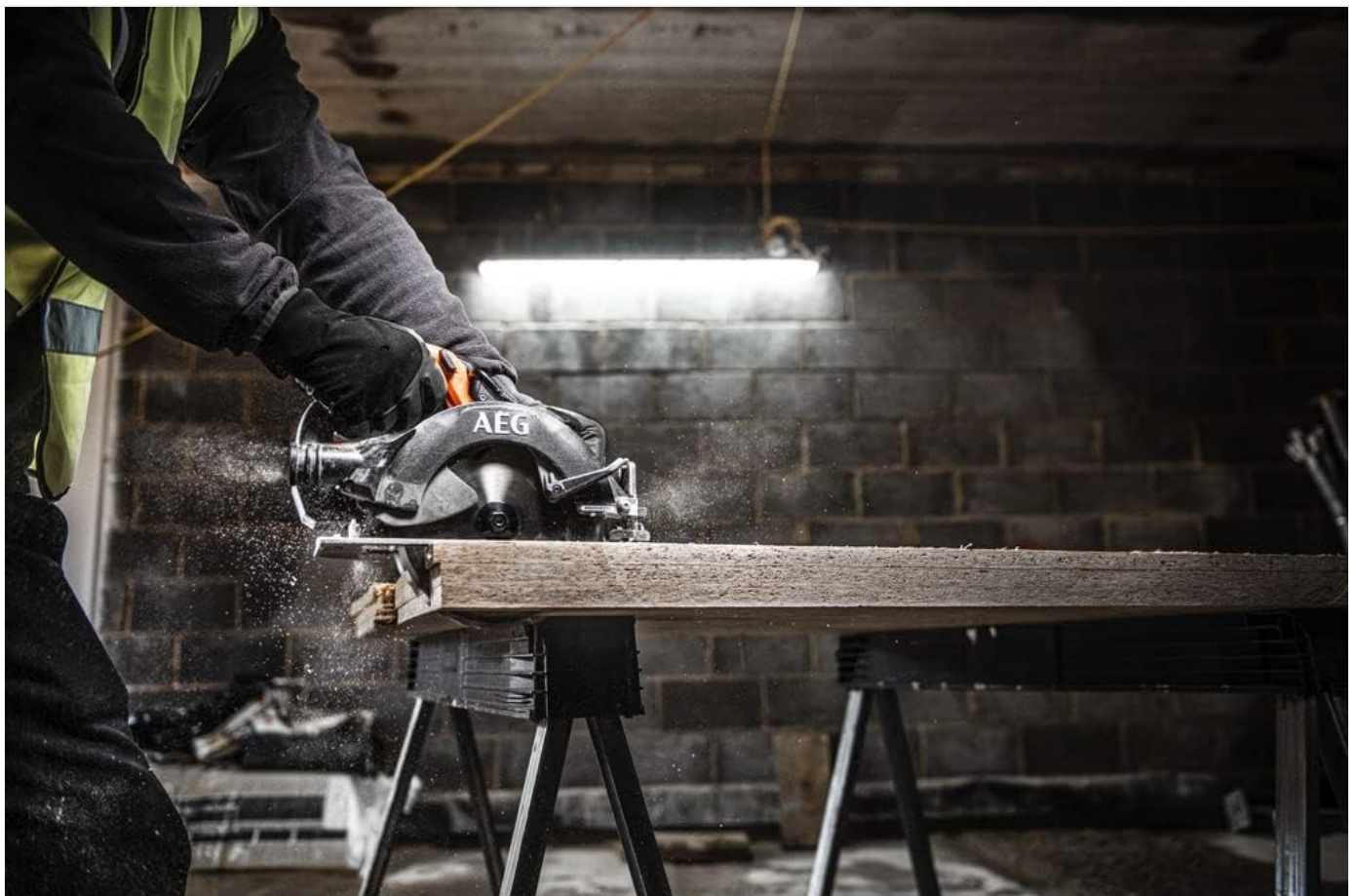


Figure 4: User operating AEG Circular Saw

This image shows a user operating the AEG circular saw to cut a wooden beam. The saw is actively cutting, with sawdust visible, demonstrating its use in a practical setting.

- **Straight Cuts:** Mark your cutting line. Align the saw's sight line with your mark. Start the saw before contacting the workpiece. Maintain a steady, even pressure, guiding the saw along the line.
- **Bevel Cuts:** Adjust the bevel angle as described in Section 3.4. Follow the same procedure as for straight cuts, ensuring the saw is stable throughout the angled cut.



Figure 5: Close-up of AEG Circular Saw cutting wood

A detailed view of the AEG circular saw in action, showing the blade cutting through a wooden board. Sawdust is being ejected, and the blade guard is partially retracted, illustrating the cutting process.

4.3 Material Compatibility

The AEG BKS 18BL2-0 is designed for cutting various materials, including wood, wooden beams, plastics, floors, and parquets. Always ensure the correct blade is used for the material being cut.

4.4 Dust Management

The saw features a rear outlet for efficient dust ejection, helping to maintain a cleaner work area. For optimal dust collection, consider connecting a compatible dust extraction system to the dust port.



Figure 6: AEG Circular Saw with dust ejection

This image captures the AEG circular saw during operation, with visible sawdust being ejected from the rear port, demonstrating the tool's dust management feature.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your AEG circular saw.

5.1 Cleaning

- Always disconnect the battery pack before cleaning.
- Use a soft brush or compressed air to remove sawdust and debris from the ventilation openings, blade guard, and motor housing.
- Do not use solvents or abrasive cleaners, as they may damage plastic parts.



Figure 7: AEG Circular Saw on workbench

The AEG circular saw is shown resting on a wooden workbench, indicating a pause in work or readiness for maintenance. This view highlights the tool's robust construction.

5.2 Blade Care and Replacement

- Inspect the blade regularly for sharpness, cracks, or missing teeth. A dull or damaged blade can cause kickback and poor cut quality.
- Replace worn or damaged blades promptly. Refer to Section 3.3 for blade installation instructions.
- Ensure the blade is clean and free of resin buildup, which can affect cutting performance.

5.3 General Inspection

- Check all screws and fasteners for tightness. Tighten any loose screws.
- Inspect the power cord (if using a corded charger) for damage.
- Ensure the blade guard moves freely and returns to its closed position automatically.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your circular saw.

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly inserted Trigger switch or safety lock-off malfunction	Ensure battery is fully charged and correctly inserted. Check if safety lock-off button is fully depressed before squeezing trigger.

Problem	Possible Cause	Solution
Poor cut quality (rough edges, burning)	Dull or incorrect blade Improper cutting technique Overheating	Replace with a sharp, appropriate blade. Ensure steady feed rate and proper alignment. Allow tool to cool down.
Excessive vibration or noise	Loose blade or damaged blade Damaged internal components	Check blade for tightness and damage; replace if necessary. If problem persists, contact AEG service.
Blade guard not retracting	Sawdust or debris buildup Damaged spring mechanism	Clean the blade guard area thoroughly. If damaged, do not use the saw; contact AEG service.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact AEG customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	BKS 18BL2-0 (4935479661)
Voltage	18 Volts
Blade Diameter	190 mm
Bore Diameter	30 mm
No-Load Speed	5400 RPM
Max. Cutting Depth (90°)	65 mm
Max. Cutting Depth (45°)	47 mm
Bevel Capacity	0 - 56 Degrees
Wattage	27 watts
Item Weight	4.4 Kilograms (9.68 pounds)
Product Dimensions	19.69"L x 19.69"W x 19.69"H
Blade Material	Aluminum Alloy
Handle Material	Rubber, Polypropylene, Acrylonitrile Butadiene Styrene, Thermoplastic elastomer, Nylon
Power Source	Battery Powered
Included Components	1 x 190mm blade, 1 x parallel guide, 1 x circular saw

8. WARRANTY AND SUPPORT

AEG stands behind the quality of its products. Your AEG 18V PRO18V Brushless Circular Saw comes with a comprehensive warranty:

- **Standard Warranty:** 1 year on tools.

- **Extended Warranty:** An additional 5 years extension on the entire range of wired and cordless tools, totaling 6 years. This extension is activated automatically after online registration within 30 days of purchase.
- **Battery, Charger, and Laser Warranty:** 3 years.

For warranty claims, technical support, or service inquiries, please visit the official AEG website or contact your local AEG authorized service center. Ensure you have your proof of purchase and product model number (BKS 18BL2-0 or 4935479661) ready when contacting support.

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