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BLACK+DECKER BES701-QS

BLACK+DECKER BES701-QS 1500W Miter Saw Instruction Manual

Model: BES701-QS

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your BLACK+DECKER BES701-QS 1500W Miter Saw. This powerful 216mm miter saw is designed for precise crosscutting and miter cutting of wood boards, skirting boards, and laminate flooring. It features a shadow line for accurate cuts without calibration, and robust supports for workpiece stability. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: Front view of the BLACK+DECKER BES701-QS Miter Saw.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep the work area clean and well-lit. 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. Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **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. Secure long hair.
- **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.

- **Miter Saw Specific Safety:** Ensure the blade guard is always in place and functioning correctly. Keep hands clear of the blade path. Secure the workpiece firmly with clamps before cutting. Never attempt to free jammed material while the saw is running.



Figure 2: Always wear appropriate safety gear, including eye and hearing protection, when operating the miter saw.

3. COMPONENTS

Familiarize yourself with the main components of your miter saw:

- **Motor Housing:** Contains the 1500W motor.
- **Blade Guard:** Retractable guard for safety during operation.
- **Saw Blade:** 216mm, 24-tooth blade for wood cutting.
- **Miter Table:** Rotates for angle cuts.
- **Miter Scale:** Indicates the miter angle.
- **Miter Lock Handle:** Secures the miter table at the desired angle.
- **Bevel Adjustment Knob:** Adjusts the blade tilt for bevel cuts.
- **Fence:** Supports the workpiece against the blade.
- **Workpiece Clamp:** Secures the workpiece to the miter table.
- **Dust Bag:** Collects sawdust during operation.
- **Handle with Trigger Switch:** For operating the saw.



Figure 3: Overview of the miter saw's main components.



Figure 4: Rear view showing the dust bag attachment point.

4. SETUP

4.1 Unpacking and Inspection

Carefully remove the miter saw from its packaging. Inspect for any damage that may have occurred during shipping. Ensure all components listed in Section 3 are present.

4.2 Mounting the Saw

For stable operation, it is recommended to mount the miter saw to a workbench or a dedicated miter saw stand. Use appropriate bolts and nuts to secure the saw through the mounting holes in its base.

4.3 Blade Installation/Change

The saw comes with a 216mm, 24-tooth blade. If you need to change the blade:

1. **Disconnect Power:** Always unplug the saw from the power source.
2. **Access Blade:** Lift the blade guard and locate the spindle lock button.
3. **Lock Spindle:** Press and hold the spindle lock button to prevent the blade from rotating.
4. **Loosen Arbor Nut:** Use the provided wrench to loosen the arbor nut. Note that the nut may have a left-hand thread (turn clockwise to loosen).
5. **Remove Blade:** Carefully remove the outer flange and the old blade.
6. **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 saw). Replace the outer flange and arbor nut.
7. **Tighten Nut:** Hold the spindle lock and tighten the arbor nut firmly.

4.4 Dust Bag Attachment

Attach the provided dust bag to the dust port at the rear of the saw. Ensure it is securely fastened to effectively collect sawdust during operation.

5. OPERATING INSTRUCTIONS

5.1 Power Connection

Connect the saw to a suitable 230V AC power outlet. Ensure the power cord is not in the path of the blade or workpiece.

5.2 Adjusting Miter Angle

To make angle cuts:

1. **Unlock Miter Table:** Loosen the miter lock handle.
2. **Set Angle:** Rotate the miter table to the desired angle, indicated on the miter scale. Common angles are often detented for quick setting.
3. **Lock Miter Table:** Tighten the miter lock handle firmly to secure the table.



Figure 5: The miter scale allows for precise angle adjustments.



Figure 6: Loosening the miter lock handle to adjust the cutting angle.

5.3 Adjusting Bevel Angle

For bevel cuts (tilting the blade):

1. **Unlock Bevel:** Loosen the bevel adjustment knob, typically located at the rear of the saw.
2. **Set Angle:** Tilt the saw head to the desired bevel angle (up to 45°), guided by the bevel scale.
3. **Lock Bevel:** Tighten the bevel adjustment knob securely.



Figure 7: Adjusting the bevel angle for tilted cuts.

5.4 Securing Workpiece

Always secure the workpiece firmly before cutting:

1. Place the workpiece against the fence and on the miter table.
2. Use the workpiece clamp to hold the material securely against the fence and table. Ensure the clamp does not interfere with the blade path.



Figure 8: Securing the workpiece with the integrated clamp for stability.

5.5 Making a Cut

Follow these steps for a safe and precise cut:

1. Ensure the workpiece is properly secured and the desired angle is set.
2. Lower the saw head slightly to align the blade with your cut line. The shadow line feature will project a clear line on the workpiece, indicating the exact cut path.
3. Raise the saw head, then depress the trigger switch to start the motor. Allow the blade to reach full speed before cutting.
4. Slowly and steadily lower the saw head through the workpiece. Do not force the cut.
5. Once the cut is complete, release the trigger switch and allow the blade to stop completely before raising the saw head.
6. Remove the cut piece and any off-cuts from the work area.



Figure 9: The shadow line feature provides a precise guide for cutting.



Figure 10: The miter saw in operation, demonstrating a typical cutting scenario.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect the saw from the power supply before performing any maintenance.

6.1 Cleaning

- **Dust Bag:** Regularly empty the dust bag to maintain effective dust collection.



Figure 11: Emptying the dust bag is crucial for maintaining a clean workspace and efficient dust collection.

- **General Cleaning:** Use a soft brush or compressed air to clean dust and debris from the motor vents, blade guard, and miter table. Do not use solvents or abrasive cleaners.

6.2 Blade Inspection and Replacement

Inspect the saw blade regularly for sharpness, cracks, or missing teeth. A dull or damaged blade can cause kickback and reduce cutting efficiency. Replace damaged blades immediately following the procedure in Section 4.3.

6.3 General Inspection

Check all screws and fasteners for tightness. Inspect the power cord for damage. Ensure all moving parts operate smoothly.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Motor overload	Check power connection and circuit breaker; Contact service center if switch is faulty; Allow motor to cool down.

Problem	Possible Cause	Solution
Inaccurate cuts	Miter/bevel angle not locked; Dull blade; Workpiece not secured	Ensure all locks are tightened; Replace blade; Secure workpiece firmly with clamp.
Excessive dust	Dust bag full or improperly attached; Clogged dust port	Empty and reattach dust bag; Clear any blockages from the dust port.
Blade binds in workpiece	Dull blade; Forcing the cut; Improper workpiece support	Replace blade; Reduce cutting speed; Ensure workpiece is fully supported and clamped.

8. SPECIFICATIONS

Technical specifications for the BLACK+DECKER BES701-QS Miter Saw:

Feature	Specification
Model Number	BES701-QS
Power	1500 Watts (1600 Watts listed in some specifications)
Voltage	230 Volts (AC)
Blade Diameter	216 mm
Max Cutting Capacity	Up to 220 mm
Bevel Cut Capacity	Up to 45°
Dimensions (L x W x H)	58.6 x 45 x 37.1 cm
Weight	13.48 kg
Material	Metal (body), Plastic (handle)
Power Source	Corded Electric
Special Feature	Depth Adjustment, Shadow Line
Included Components	1 x 216 mm 24-tooth Saw Blade, 1 x Dust Bag
Certification	CE

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This BLACK+DECKER BES701-QS Miter Saw comes with a Limited Warranty. Please refer to the warranty card included with your product for specific terms, conditions, and duration of coverage. Retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, spare parts, or service, please contact BLACK+DECKER customer support in your region. Contact

information can typically be found on the BLACK+DECKER official website or on the product packaging.