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- › [BLACK+DECKER](#) /
- › [BLACK+DECKER BES510-QS Mini Circular Saw User Manual](#)

## BLACK+DECKER BES510-QS

# BLACK+DECKER BES510-QS Mini Circular Saw User Manual

Model: BES510-QS

## 1. IMPORTANT SAFETY INSTRUCTIONS

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**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.**

### 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 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. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

### Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Use dust extraction and collection facilities if provided. These can reduce dust-related hazards.
- 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.

## 2. PRODUCT OVERVIEW

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The BLACK+DECKER BES510-QS is a versatile and compact mini circular saw designed for various cutting tasks. Its 400W motor provides fast cutting progression and high cut quality across different materials.



Figure 2.1: BLACK+DECKER BES510-QS Mini Circular Saw

## Key Features

- Compact and versatile for cutting wood, metal, plastic, tile, copper, and flooring.
- Powerful 400W motor for rapid cutting and high-quality results.
- Die-cast aluminum saw shoe and metal protective cover for stability and durability.
- Tool-free depth adjustment up to 27 mm for optimal cutting results.
- Integrated dust extraction port with adapter for a cleaner workspace.

## 3. COMPONENTS INCLUDED

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Your BLACK+DECKER BES510-QS Mini Circular Saw package includes the following items:

- 1 x BLACK+DECKER BES510-QS Mini Circular Saw
- 1 x Coarse Saw Blade (85mm)
- 1 x Fine Saw Blade (85mm)

- 1 x Dust Extraction Adapter
- 1 x Allen Key
- 1 x Parallel Guide

## 4. SETUP

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### 4.1 Blade Installation/Replacement

1. Ensure the saw is unplugged from the power source.
2. Locate the spindle lock button and press it to secure the blade.
3. Use the provided Allen key to loosen the blade retaining screw.
4. Carefully remove the old blade and replace it with the desired new blade, ensuring the teeth are oriented correctly for cutting.
5. Tighten the blade retaining screw firmly with the Allen key while holding the spindle lock.



Figure 4.1: Changing the saw blade using the Allen key

### 4.2 Adjusting Cutting Depth

The cutting depth can be adjusted without tools for quick changes and optimal results up to 27 mm.

1. Ensure the saw is unplugged.
2. Locate the depth adjustment lever on the side of the saw shoe.
3. Loosen the lever and slide the saw shoe to the desired cutting depth. Refer to the depth scale for precision.
4. Securely tighten the depth adjustment lever.



Figure 4.2: Adjusting the cutting depth

### 4.3 Connecting Dust Extraction

To maintain a clean workspace and reduce dust exposure, connect a vacuum cleaner to the dust extraction port using the provided adapter.

1. Attach the dust extraction adapter to the saw's dust port.
2. Connect a suitable vacuum cleaner hose to the adapter.

### 4.4 Attaching the Parallel Guide

For straight and precise cuts, attach the parallel guide.

1. Slide the parallel guide into the designated slot on the saw shoe.
2. Adjust the guide to the desired cutting width and secure it in place.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On/Off

The saw is equipped with a safety switch to prevent accidental startup.

- To turn on: Press and hold the safety lock-off button, then squeeze the trigger switch.
- To turn off: Release the trigger switch.

### 5.2 General Cutting Techniques

Always ensure the workpiece is securely clamped before cutting. Allow the blade to reach full speed before engaging with the material.

- **Cutting Wood/Plywood:** Use the coarse or fine wood blade. Maintain a steady, controlled feed rate.



Figure 5.1: Cutting a wooden board

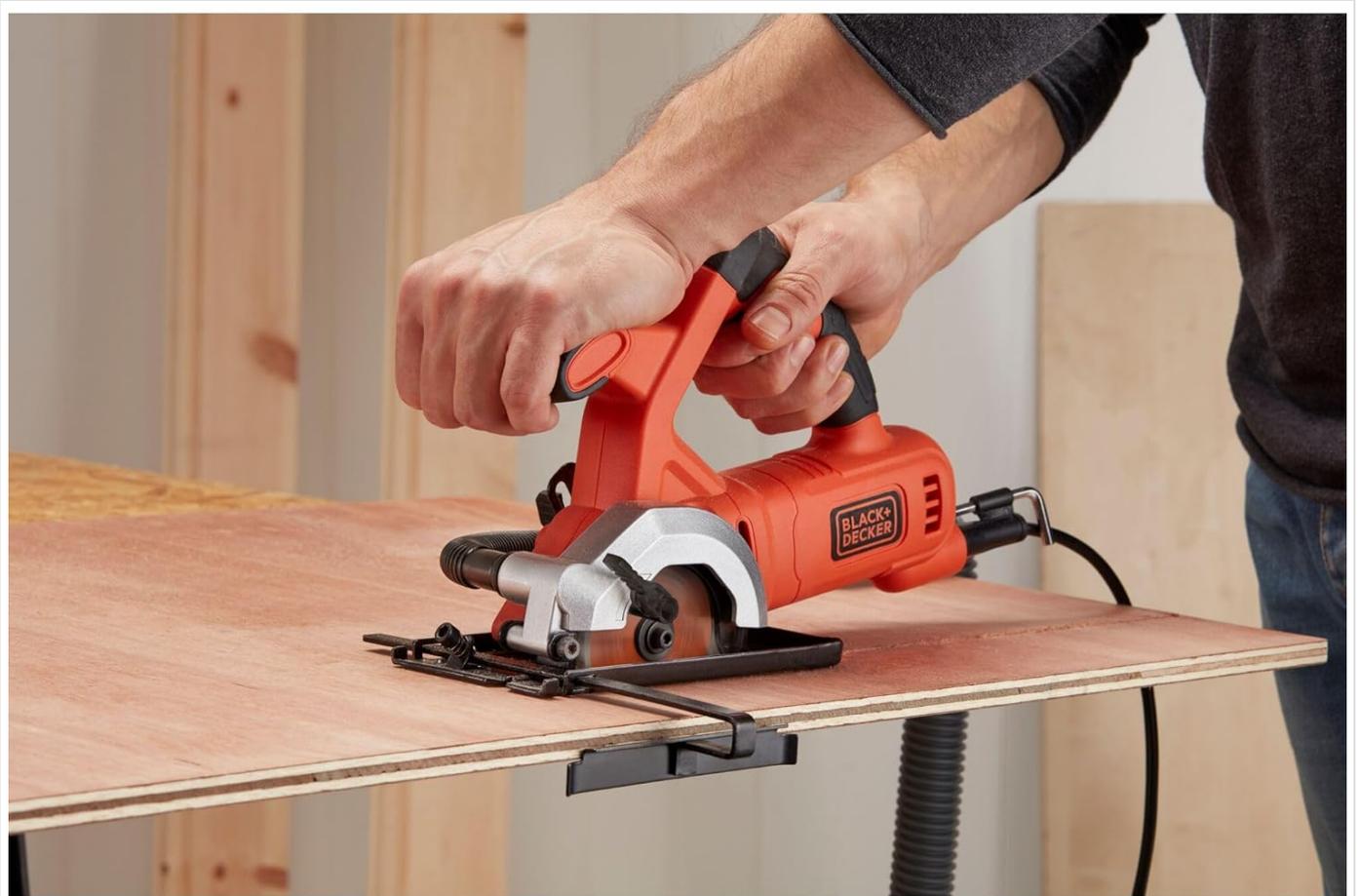


Figure 5.2: Cutting plywood

- **Cutting Plastic/PVC Pipes:** Use an appropriate blade for plastic. The saw is suitable for cutting materials like PVC pipes.



Figure 5.3: Cutting a PVC pipe

- **Cutting Metal/Tile:** Use specialized blades for metal or tile. Ensure the material is thin and properly supported.



Figure 5.4: Cutting a thin sheet of metal

## 6. MAINTENANCE

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### 6.1 Cleaning

Regular cleaning ensures optimal performance and extends the life of your tool.

- Always unplug the tool before cleaning.
- Use a soft brush or compressed air to clean dust and debris from the ventilation openings and around the blade guard.
- Wipe the exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

### 6.2 Blade Care

Inspect blades regularly for sharpness and damage. Dull or damaged blades can cause kickback and poor cut quality. Replace blades as needed following the instructions in Section 4.1.

## 7. TROUBLESHOOTING

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If you encounter issues with your mini circular saw, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Saw does not start	No power supply; Safety switch not engaged; Faulty power cord	Check power connection; Ensure safety switch is pressed before trigger; Inspect power cord for damage.
Poor cut quality / Excessive vibration	Dull or damaged blade; Incorrect blade for material; Loose blade	Replace blade; Use appropriate blade; Ensure blade is securely tightened.
Saw overheats	Blocked ventilation slots; Overloading the motor	Clean ventilation slots; Reduce feed rate; Allow tool to cool.

## 8. SPECIFICATIONS

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Technical specifications for the BLACK+DECKER BES510-QS Mini Circular Saw:

Specification	Value
Model Number	BES510-QS
Power Input	400 W
No-load Speed	0-3600 rpm
Blade Size	85 x 10 mm
Max. Cutting Depth	27 mm
Voltage	10 Volts (Internal operating voltage, not mains)
Weight	2.5 kg
Power Source	Corded Electric
Handle Material	Aluminum
Product Dimensions (L x W x H)	29 x 9 x 22 cm

## 9. WARRANTY INFORMATION

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This BLACK+DECKER BES510-QS Mini Circular Saw comes with a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full terms and conditions, refer to the warranty card included with your product or visit the official BLACK+DECKER website.

## 10. SUPPORT

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For further assistance, technical support, or to purchase replacement parts, please contact BLACK+DECKER customer service or visit our official website:

- **Website:** [www.blackanddecker.com](http://www.blackanddecker.com)
- **Customer Service:** Refer to your regional BLACK+DECKER contact information provided in the packaging.