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› BLACK+DECKER KS890EK Scorpion Powered Handsaw & Kitbox User Manual

BLACK+DECKER KS890EK

BLACK+DECKER KS890EK Scorpion Powered Handsaw User Manual

Model: KS890EK

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INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your BLACK+DECKER KS890EK Scorpion Powered Handsaw. Please read this manual thoroughly before operating the tool and retain it for future reference. The KS890EK is a versatile power tool designed for cutting various materials including wood, metal, and plastic, offering both powered handsaw and jigsaw functionalities.

IMPORTANT SAFETY INFORMATION

Always observe basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

General Safety Rules:

- **Work Area Safety:** Keep your 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 abuse the cord. Keep cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. 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.
- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts,

and any other condition that may affect the power tool's operation.

SETUP AND ASSEMBLY

Unpacking:

Carefully remove the KS890EK Scorpion Powered Handsaw and all accessories from its kitbox. Inspect the tool for any signs of damage that may have occurred during shipping. Ensure all components listed in the packaging are present.



Figure 1: The BLACK+DECKER KS890EK Scorpion Powered Handsaw shown with its included kitbox. The saw is red and black, featuring a prominent blade and ergonomic handles.

Blade Installation:

The KS890EK features a tool-free push-button blade change system for quick and easy blade replacement.

1. Ensure the tool is unplugged from the power source before attempting to change the blade.
2. Locate the blade release button, typically near the blade housing.
3. Press and hold the blade release button.
4. Insert the desired blade into the blade clamp until it clicks securely into place. Ensure the teeth are facing the correct direction for cutting.
5. Release the button and gently pull on the blade to confirm it is firmly seated and cannot be easily removed.



Figure 2: The BLACK+DECKER KS890EK Scorpion Powered Handsaw, highlighting its design and blade attachment point. The red body and black grip areas are visible.

Power Connection:

Connect the power cord to a suitable 240 Volt AC power outlet. Ensure the outlet is properly grounded and capable of supplying the required 400 Watts of power.

OPERATING INSTRUCTIONS

Basic Operation:

- **Safety Lock-Off Switch:** The tool is equipped with a safety lock-off switch to prevent unintentional starting. To operate, depress the lock-off button first, then activate the trigger switch.
- **Variable Speed Control:** The KS890EK features fingertip variable speed control. The harder you press the trigger, the faster the blade will move, allowing for precise control over cutting speed.

- **On/Off:** To turn the tool on, depress the safety lock-off switch and then squeeze the trigger. To turn off, release the trigger.

Cutting Modes:

The Scorpion Handsaw offers two primary cutting modes: powered handsaw and jigsaw.

- **Powered Handsaw Mode:** Ideal for straight cuts in various materials. Hold the tool firmly with both hands, guiding the blade along the cutting line.
- **Jigsaw Mode:** For curved cuts or intricate shapes. This mode allows the blade to rotate 90 degrees. Consult the tool's specific mechanism for rotating the blade housing, typically involving a lever or button.

Cutting Materials and Techniques:

The KS890EK is suitable for cutting wood, metal, and plastic. Always select the appropriate blade for the material being cut.



Figure 3: A user demonstrating the BLACK+DECKER Scorpion Handsaw cutting a wooden beam. The saw is held firmly with both hands for stability.



Figure 4: The Scorpion Handsaw being used to cut a large diameter plastic pipe. The tool's versatility for different materials is showcased.



Figure 5: A user performing a cut on wooden floorboards, likely utilizing the jigsaw mode for precision or curved cuts.

- **Wood:** Use coarse-toothed blades for fast cuts and fine-toothed blades for smoother finishes.
- **Metal:** Use fine-toothed metal-cutting blades. Apply light pressure and allow the blade to do the work.
- **Plastic:** Use fine-toothed blades. Start with a slower speed to prevent melting the plastic, then increase as needed.
- **Pruning:** The saw can also be used for pruning branches up to 50mm.

Always ensure the workpiece is securely clamped or supported before cutting to prevent movement and ensure safety.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your KS890EK Scorpion Handsaw.

- **Cleaning:** After each use, unplug the tool and clean any sawdust, metal shavings, or plastic debris from the tool's vents and blade area using a soft brush or compressed air. Do not use harsh chemicals or abrasive cleaners.

- **Blade Inspection:** Regularly inspect blades for sharpness and damage. Replace dull or bent blades immediately to ensure efficient and safe cutting.
- **Cord Inspection:** Check the power cord for any cuts, fraying, or damage. If damaged, have it repaired by a qualified service technician.
- **Storage:** Store the tool in its kitbox in a dry, secure location out of reach of children and away from direct sunlight or extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter with your KS890EK Scorpion Handsaw.

Problem	Possible Cause	Solution
Tool does not start.	No power supply; Safety lock-off not engaged; Faulty power cord/plug.	Check power outlet and connections. Ensure safety lock-off button is pressed before trigger. Inspect power cord for damage.
Blade not cutting efficiently or binding.	Dull or incorrect blade for material; Blade not properly installed; Excessive pressure.	Replace blade with a sharp, appropriate type. Re-install blade securely. Reduce cutting pressure.
Excessive vibration during operation.	Loose blade; Damaged blade; Improper cutting technique.	Ensure blade is securely fastened. Replace damaged blade. Maintain firm grip and proper cutting angle.

If you encounter issues not listed here or if solutions do not resolve the problem, contact BLACK+DECKER customer support or an authorized service center.

TECHNICAL SPECIFICATIONS

Model: KS890EK

Brand: BLACK+DECKER

Input Power: 400 Watts

Voltage: 240 Volts

Speed: 0 - 5,500 strokes/min (variable)

Stroke Length: 10mm

Blade Material: Metal

Recommended Surfaces: Wood, Metal, Plastic

Max. Cutting Depth (Wood): 100mm

Max. Cutting Depth (Steel): 3mm

Max. Cutting Depth (Plastic/Pruning): 50mm

Item Weight: 3.1 Kilograms (6.82 pounds)

Product Dimensions: 7.3 x 4.71 x 1.78 inches

Cable Length: 3m

UPC: 043396331198, 798256195907

WARRANTY AND SUPPORT

For warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official BLACK+DECKER website. Keep your purchase receipt as proof of purchase for any warranty claims.

BLACK+DECKER Official Website: www.blackanddecker.com

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