

BLACK+DECKER BDCMTTS

BLACK+DECKER MATRIX Trim Saw Attachment (BDCMTTS) User Manual

Model: BDCMTTS

1. SAFETY INFORMATION

Always prioritize safety when operating power tools. Read and understand all instructions before using the BLACK+DECKER MATRIX Trim Saw Attachment. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **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. 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.
- **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. A moment of inattention while operating power tools may result in serious personal injury. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

Specific Saw Safety Warnings:

- **Hold the power tool by insulated gripping surfaces** when performing an operation where the

cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

- **Keep hands away from the cutting area and the blade.** Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade should be visible below the workpiece.
- **Never hold the workpiece in your hands or across your leg** while cutting. Secure the workpiece to a stable platform. It is important to support the workpiece properly to minimize body exposure, blade binding, or loss of control.
- **Wear a dust mask** when cutting wood.

2. PRODUCT OVERVIEW

The BLACK+DECKER MATRIX Trim Saw Attachment (BDCMTTS) is designed to provide efficient and precise cutting for various wood-based materials. This attachment is part of the versatile BLACK+DECKER MATRIX quick-connect system, allowing it to be easily interchanged with compatible MATRIX power units.



Figure 1: BLACK+DECKER MATRIX Trim Saw Attachment (BDCMTTS)

Its lightweight and compact design ensures comfort and control during operation, making it suitable for tasks such as cutting plywood, paneling, and fence boards. The attachment comes with a durable 3-3/8 inch, 24-tooth carbide blade, optimized for general purpose wood cutting.



Figure 2: Side view of the Trim Saw Attachment, highlighting its compact design.

3. SETUP

Attaching to the MATRIX Power Unit:

1. Ensure the MATRIX power unit (e.g., BDEDMT or BDCDMT112) is turned off and the battery is removed to prevent accidental startup.
2. Align the trim saw attachment with the power unit's head. The attachment will slide onto the power unit.
3. Push the attachment firmly until it clicks securely into place. Verify that it is locked and does not wobble.



Figure 3: Demonstrates the process of attaching the trim saw to the MATRIX power unit.

Installing/Changing the Blade:

1. Ensure the power unit is disconnected from its power source (battery removed).
2. Locate the blade release mechanism on the trim saw attachment.
3. Press the spindle lock button and use the provided wrench (if applicable) to loosen the blade retaining screw.
4. Carefully remove the old blade.
5. Place the new 3-3/8 inch carbide blade onto the spindle, ensuring the teeth are oriented in the correct cutting direction (usually indicated by an arrow on the blade and the saw).
6. Tighten the blade retaining screw securely while holding the spindle lock button.



Figure 4: Close-up view of installing the carbide blade onto the trim saw attachment.

Adjusting Depth of Cut:

The trim saw attachment allows for adjustment of the cutting depth. To adjust:

1. Loosen the depth adjustment lever or knob.
2. Raise or lower the base plate to achieve the desired cutting depth. Ensure that only a minimal portion of the blade extends below the workpiece.
3. Tighten the depth adjustment lever or knob firmly to secure the setting.

4. OPERATING INSTRUCTIONS

Powering On/Off:

To operate the trim saw, ensure a charged BLACK+DECKER 20V Lithium battery is inserted into the MATRIX power unit. The power unit's trigger activates the saw. Some models may have a safety lock-off button that must be pressed before the trigger can be engaged.

Cutting Techniques:

- **Secure Workpiece:** Always clamp or otherwise secure the material you are cutting to a stable surface. Never hold the workpiece by hand.
- **Starting the Cut:** Allow the blade to reach full speed before engaging it with the workpiece.
- **Maintain Control:** Guide the saw smoothly through the material. Do not force the saw, as this can lead to kickback or damage to the blade and motor.
- **Straight Cuts:** For best results, use a straight edge guide or a clamped piece of wood to ensure accurate, straight cuts.
- **Cutting Plywood/Paneling:** The trim saw is ideal for these materials. Ensure the material is adequately supported to prevent splintering.



Figure 5: Proper technique for using the trim saw attachment to cut a wooden board.



Figure 6: Detailed view of the saw blade making a cut in wood.

Official Product Video:

Video 1: This video demonstrates the assembly of the BLACK+DECKER MATRIX Trim Saw Attachment and highlights its lightweight, compact design, and the included compact blade.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your trim saw attachment.

- **Cleaning:** After each use, disconnect the power unit from the battery and use a dry cloth or soft brush to remove sawdust and debris from the saw attachment, especially around the blade guard and motor vents. Do not use water or chemical cleaners.
- **Blade Inspection:** Regularly inspect the blade for sharpness, damage, or missing teeth. A dull or damaged blade can cause kickback and poor cut quality. Replace blades as needed.
- **Storage:** Store the trim saw attachment and power unit in a clean, dry place, out of reach of children.

6. TROUBLESHOOTING

If you encounter issues with your BLACK+DECKER MATRIX Trim Saw Attachment, refer to the following

common problems and solutions:

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly inserted; safety lock engaged; attachment not properly connected.	Ensure battery is fully charged and correctly inserted. Disengage safety lock. Re-attach the trim saw firmly to the power unit.
Poor cut quality (rough edges, splintering)	Dull or incorrect blade; improper cutting technique; workpiece not secured.	Replace with a sharp, appropriate blade for the material. Ensure proper cutting technique and secure the workpiece firmly.
Saw binds or kicks back	Forcing the saw; improper depth of cut; blade pinching.	Do not force the saw; allow the blade to do the work. Adjust cutting depth. Ensure workpiece is properly supported to prevent pinching.

7. SPECIFICATIONS

- **Model:** BDCMTTS
- **Brand:** BLACK+DECKER
- **Blade Material:** Carbide
- **Blade Size:** 3-3/8 inch, 24T
- **Surface Recommendation:** Wood (plywood, paneling, fence boards)
- **Power Source:** Battery Powered (compatible with BLACK+DECKER MATRIX 12V Max, 20V Max, and AC 4A power units)
- **RPM (Revolutions Per Minute):**
 - 12V Max Power Unit: 0-2600 RPM
 - 20V Max Power Unit: 0-3400 RPM
 - AC 4A Power Unit: 0-2800 RPM



Figure 7: Detail of the 3-3/8 inch, 24-tooth carbide blade, showing specifications.

8. WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed against defects in materials or workmanship. For specific warranty details, including duration and coverage, please refer to the warranty card included with your product or visit the official BLACK+DECKER website.

For technical assistance, troubleshooting, or to order replacement parts, please contact BLACK+DECKER customer support. Contact information can typically be found on the product packaging or the official brand website.