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› BLACK+DECKER 20V MAX MATRIX 6-Tool Combo Kit Instruction Manual (Model BDCDMT1206KITC)

BLACK+DECKER BDCDMT1206KITC

BLACK+DECKER 20V MAX MATRIX 6-Tool Combo Kit Instruction Manual

Model: BDCDMT1206KITC

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your BLACK+DECKER 20V MAX MATRIX 6-Tool Combo Kit. Please read this manual thoroughly before using the product and retain it for future reference.



Figure 1: The BLACK+DECKER 20V MAX MATRIX 6-Tool Combo Kit, including the power unit, battery, charger, and various attachments.

2. GENERAL SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. 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. Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.

WARNING: Make certain the lock-off button is engaged to prevent switch actuation before removing or installing the battery. Always ensure the forward/reverse slider is in the center position when installing and removing batteries.

3. PACKAGE CONTENTS

Your BLACK+DECKER 20V MAX MATRIX 6-Tool Combo Kit includes the following items:

- 1x 20V MAX Lithium Ion Power Unit
- 1x BDCMTDD Drill/Driver Attachment
- 1x Double-ended Bit
- 1x BDCMTS Detail Sander Attachment
- 6x Sheets of Sandpaper (various grits)
- 1x BDCMTJS Jigsaw Attachment
- 1x Jigsaw Blade
- 1x BDCMTO Oscillating Attachment
- 1x Universal Adaptor
- 1x Plunge Cut Blade
- 1x Sanding Platen
- 1x Sheet 60 Grit Sandpaper

- 1x Sheet 240 Grit Sandpaper
- 1x BDCMTI Impact Driver Attachment
- 1x Router Attachment
- 1x Screwdriving Bit
- 1x 20V MAX Lithium Ion Battery
- 1x 20V MAX Charger
- 1x Storage Case

Attachments + Accessories Included



Drill/Driver Attachment



Sander Attachment



Router Attachment



Jig Saw Attachment



Power Unit



Impact Driver Attachment



Oscillating Multi-Tool Attachment



Storage Case



**POWERCONNECT™ 20V MAX*
1.5Ah Lithium Ion Battery + Charger**

Figure 2: Visual representation of the included attachments and accessories.

4. SETUP

4.1 Battery Installation and Removal

1. To install the battery pack: Insert the battery pack into the Power Unit until an audible click is heard. Make sure the battery pack is fully seated and fully latched into position.
2. To remove the battery pack: Depress the battery release button and pull the battery pack out of the Power Unit.

4.2 Charging the Battery

The 20V MAX Lithium Ion Battery is designed to hold a charge for up to 18 months. For optimal performance, charge the battery fully before first use.

1. Plug the charger into a standard electrical outlet.
2. Slide the battery pack onto the charger. The indicator light on the charger will illuminate to show charging status.
3. Once fully charged, remove the battery pack from the charger.



Figure 3: The 20V MAX Lithium Ion Battery and Charger.

4.3 Attaching and Removing Tool Heads (MATRIX Quick Connect System)

The MATRIX Quick Connect System allows for quick and easy interchangeability of various tool heads.

1. To attach a tool head: Align the tool head with the power unit and push it firmly until it clicks into place. Ensure it is securely locked.
2. To remove a tool head: Press the attachment release button located on the power unit and pull the tool head away.

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Figure 4: The MATRIX Quick Connect System showing the attachment release button and magnetic bit holder.

5. OPERATING INSTRUCTIONS

5.1 Power Unit Operation (Trigger Switch & Forward/Reverse Slider)

The forward/reverse slider is used to control the direction the chuck (12) spins - forward to drive screws, reverse to remove screws. It is located above the variable speed trigger (8). To reverse the motor, release the trigger FIRST, then push the slider to the right-hand side of the tool when viewing from the rear. After any reversing operations, return the lever to the forward position. Never change the direction of rotation while the motor is running.

- The Power Unit is turned ON and OFF by pulling and releasing the trigger. The farther the trigger is depressed, the higher the speed of the Power Unit.
- A forward/reverse control slider determines the direction of the tool.
- To select forward rotation, release the trigger switch and depress the forward/reverse control button to the left.
- To select reverse, depress the forward/reverse control button to the right.
- **NOTE:** When changing the position of the control button, be sure the trigger is released.

5.2 Drill/Driver Attachment

The drill/driver attachment is suitable for drilling holes and driving screws. Select the appropriate drill bit or screwdriver bit for your task. Adjust the clutch setting for driving screws to prevent overtightening.

5.3 Detail Sander Attachment

The detail sander attachment is versatile for finish sanding, rust removal, dry scrubbing, polishing, and detail sanding. Attach the desired grit sandpaper to the sanding platen before use.



Hand Vacuums

Figure 5: Demonstrating the use of the Detail Sander attachment for woodworking.

5.4 Jig Saw Attachment

The jig saw attachment is designed for tool-free blade changes, allowing for fast and easy blade replacement. Use it for cutting various materials like wood, plastic, and thin metal. Ensure the workpiece is securely clamped before cutting.



Outdoor Power Tools

Figure 6: Illustrating the Jig Saw attachment in use for cutting wood.

5.5 Oscillating Attachment

The oscillating attachment accepts a variety of BLACK+DECKER accessories (sold separately) for cutting drywall, metal, wood, plastic, composite, and other materials. It is ideal for flush cuts and plunge cuts.



Drills & Drivers

Figure 7: The Oscillating Tool attachment being used for detail work.

5.6 Impact Driver Attachment

The impact driver attachment delivers high performance output without kickback, featuring a variable speed for precision. It is designed for driving large fasteners and working with tough materials.

5.7 Router Attachment

The router attachment is used for decorative edging, trimming, and grooving in wood. Ensure the router bit is securely installed and adjust the depth of cut as needed for your application.



Figure 8: A user demonstrating the router attachment for shaping wood.

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Video 1: Official product video demonstrating the BLACK+DECKER 20V MAX MATRIX Cordless Drill Combo Kit and its various attachments in use.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the ventilation slots of the power unit and attachments to prevent overheating. Use a soft brush or dry cloth. Do not use water or chemical cleaners.

6.2 Storage

Store the tool kit in a dry, secure place, out of reach of children. Use the provided storage case to keep all components organized and protected.



Figure 9: The compact storage case for the BLACK+DECKER MATRIX 6-Tool Combo Kit.

7. TROUBLESHOOTING

Refer to the table below for common issues and their possible solutions.

Problem	Possible Cause	Possible Solution
Unit will not start.	Battery pack not installed properly. Battery pack not charged. Attachment is not secured.	Check battery pack installation. Check battery pack charging requirements. Make certain the attachment is fully pushed into the Power Unit.
Battery pack will not charge.	Battery pack not inserted into charger. Charger not plugged in. Surrounding air temperature too hot or too cold.	Insert battery pack into charger until LED illuminates. Plug charger into a working outlet. Refer to "Important Charging Notes" for more details. Move charger and battery pack to a surrounding air temperature of above 40 degrees F (4.5°C) or below 105 degrees F (+40.5°C).
Unit shuts off abruptly.	Battery pack has reached its maximum thermal limit. Out of charge. (To maximize the life of the battery pack it is designed to shutoff abruptly when the charge is depleted.)	Allow battery pack to cool down. Place on charger and allow to charge.

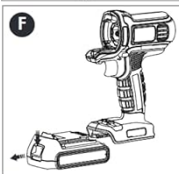
20VOLT MAX** INSTALLING AND REMOVING THE BATTERY PACK FROM THE POWER UNIT

Always ensure the forward/reverse slider (7) is in the center position when installing and removing batteries.

⚠ WARNING: Make certain the lock-off button is engaged to prevent switch actuation before removing or installing battery.

TO INSTALL BATTERY PACK: Insert battery pack into the Power Unit until an audible click is heard (**Figure E**). Make sure battery pack is fully seated and fully latched into position.

TO REMOVE BATTERY PACK: Depress the battery release button (6) as shown in **Figure F** and pull battery pack out of the Power Unit.



OPERATING: POWER UNIT

TRIGGER SWITCH & FORWARD/REVERSE SLIDER

The forward/reverse slider (7) is used to control the direction the chuck (12) spins - forward to drive screws, reverse to remove screws. It is located above the variable speed trigger (8). To reverse the motor, release the trigger FIRST, then push the slider to the right hand side of the tool when viewing from the rear. After any reversing operations, return lever to the forward position. Never change the direction of rotation while the motor is running.

- The Power Unit is turned ON and OFF by pulling and releasing the trigger. The farther the trigger is depressed, the higher the speed of the Power Unit.
- A forward/reverse control slider determines the direction of the tool.
- To select forward rotation, release the trigger switch and depress the forward/reverse control button to the left.
- To select reverse, depress the forward/reverse control button to the right.

NOTE: When changing the position of the control button, be sure the trigger is released.

TROUBLESHOOTING

Problem

- Unit will not start.

- Battery pack will not charge.

- Unit shuts off abruptly.

Possible Cause

- Battery pack not installed properly.
- Battery pack not charged.

- Attachment is not secured.

- Battery pack not inserted into charger.

- Charger not plugged in.

- Surrounding air temperature too hot or too cold.

- Battery pack has reached its maximum thermal limit.

- Out of charge. (**To maximize the life of the battery pack it is designed to shut off abruptly when the charge is depleted.**)

Possible Solution

- Check battery pack installation.
- Check battery pack charging requirements.
- Make certain the attachment is fully pushed into the Power Unit.
- Insert battery pack into charger until LED illuminates.
- Plug charger into a working outlet. Refer to "Important Charging Notes" for more details.
- Move charger and battery pack to a surrounding air temperature of above 40 degrees F (4,5°C) or below 105 degrees F (+40,5°C).
- Allow battery pack to cool down.

- Place on charger and allow to charge.

Figure 10: Troubleshooting guide for the BLACK+DECKER 20V MAX MATRIX Power Unit.

8. SPECIFICATIONS

- **Model Number:** BDCDMT1206KITC
- **Brand:** BLACK+DECKER
- **Voltage:** 20 Volts MAX (Nominal voltage is 18V)
- **Battery Type:** Lithium Ion
- **Battery Capacity:** 1.5 Amp Hours
- **Item Torque:** 153.4 Newton Meters
- **Speed:** 1700 RPM (Variable Speed)
- **Item Weight:** 13.55 pounds
- **Product Dimensions:** 19.69 x 4.63 x 17.88 inches
- **Number of Pieces:** 6 (Power Unit + 6 Attachments)
- **Color:** Orange, White

9. WARRANTY AND SUPPORT

This BLACK+DECKER product is covered by a 2-year limited manufacturer's warranty. For warranty claims, technical support, or to purchase additional accessories, please visit the official BLACK+DECKER website or contact their customer service department. Keep your proof of purchase for warranty validation.

For more information, visit the [BLACK+DECKER Store on Amazon](#).