

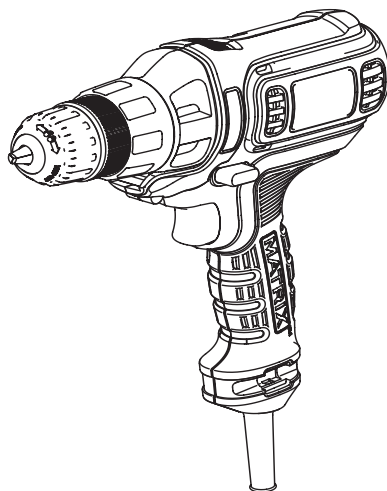


MATRIXTM

**CORDED POWER UNIT
& DRILL ATTACHMENT**

INSTRUCTION MANUAL

**Catalog Number
BDEDMT**



**Thank you for choosing Black & Decker!
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to register your new product.**

**PLEASE READ BEFORE RETURNING THIS
PRODUCT FOR ANY REASON:**

If you have a question or experience a problem with your Black & Decker purchase, go to

[HTTP://WWW.BLACKANDDECKER.COM/INSTANTANSWERS](http://WWW.BLACKANDDECKER.COM/INSTANTANSWERS)

If you can't find the answer or do not have access to the Internet,
call 1-800-544-6986 from 8 a.m. to 5 p.m. EST Mon. -- Fri. to speak with an agent.

Please have the catalog number available when you call.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

VEA EL ESPAÑOL EN LA CONTRAPORTADA.

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA.

ADVERTENCIA: LÉASE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

SAFETY GUIDELINES - DEFINITIONS

It is important for you to read and understand this manual. The information it contains relates to protecting YOUR SAFETY and PREVENTING PROBLEMS. The symbols below are used to help you recognize this information.

⚠ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE: Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

General Power Tool Safety Warnings

⚠ WARNING: Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) WORK AREA SAFETY

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) 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.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) ELECTRICAL SAFETY

- a) 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.
- b) 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.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

3) PERSONAL SAFETY

- a) 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.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, nonskid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/ or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

- d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry or long hair can be caught in moving parts.*
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

4) POWER TOOL USE AND CARE

- a) **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.*
- b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c) **Disconnect the plug from the power source and/or 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.*
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e) **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. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

5) SERVICE

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

Drill Safety Warnings

- **Use auxiliary handle(s) if supplied with the tool.** *Loss of control can cause personal injury.*
- **Hold 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.*
- **Use clamps or another practical way to secure and support the work piece to a stable platform.** *Holding the work by hand or against your body leaves it unstable and may lead to loss of control.*
- **Keep your hair, clothing, and gloves away from air vents.** *Air vents often cover moving parts in which these items can be caught.*

⚠ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

- **Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water.** *Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.*
- **Wear appropriate hearing protection during use.** *Under some conditions and duration of use, noise from this product may contribute to hearing loss.*

⚠ WARNING: Use of this tool can generate and/or disperse dust, which may cause serious and permanent respiratory or other injury. Always use NIOSH/OSHA approved respiratory protection appropriate for the dust exposure. Direct particles away from face and body.

⚠ WARNING: ALWAYS use safety glasses. Everyday eye glasses are NOT safety glasses. Also use face or dust mask if cutting operation is dusty.
ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT:

- ANSI Z87.1 eye protection (CAN/CPA Z94.3),
- ANSI S12.6 (S3.19) hearing protection,
- NOSH/OSHA respiratory protection.

SYMBOLS

The label on your tool may include the following symbols. The symbols and their definitions are as follows:

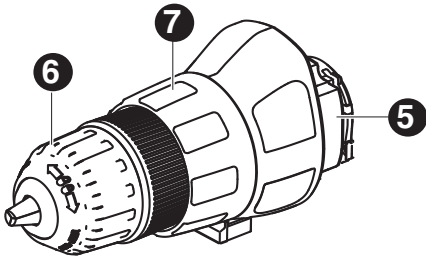
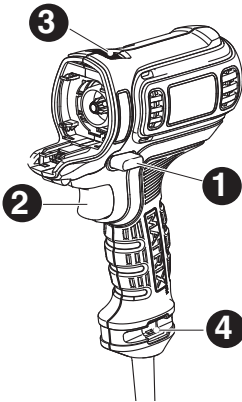
- | | |
|---|---|
| V.....volts | A.....amperes |
| Hz.....hertz | W.....watts |
| min.....minutes | ~.....alternating current |
| —.....direct current | n ₀no load speed |
| ⚠.....Class I Construction
(grounded) | ⊕.....earthing terminal |
| □.....Class II Construction
(double insulated) | ⚠.....safety alert symbol |
| 📖.....Read instruction manual before use | .../min or rpm...revolutions or
reciprocation per minute |
| 👁.....Use proper eye protection | 🧴.....Use proper respiratory protection |
| | 👂.....Use proper hearing protection |

When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The following table shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

		Minimum Gauge for Cord Sets			
Volts		Total Length of Cord in Feet			
120V		0-25	26-50	51-100	101-150
		(0-7,6m)	(7,6-15,2m)	(15,2-30,4m)	(30,4-45,7m)
240V		0-50	51-100	101-200	201-300
		(0-15,2m)	(15,2-30,4m)	(30,4-60,9m)	(60,9-91,4m)
Ampere Rating		American Wire Gauge			
More Than	Not more Than				
0 -	6	18	16	16	14
6 -	10	18	16	14	12
10 -	12	16	16	14	12
12 -	16	14	12	Not Recommended	

FUNCTIONAL DESCRIPTION

- | | | |
|------------------------------|---------------------------------|----------------------------------|
| 1. Forward/reverse slider | 4. Bit holder | 7. Torque adjustment collar |
| 2. Variable speed trigger | 5. Drill/screwdriver attachment | Double-ended bit tip (not shown) |
| 3. Attachment release button | 6. Keyless chuck | |



SAVE THESE INSTRUCTIONS

⚠ Safety Warnings and Instructions

⚠ **WARNING: Shock hazard.** When drilling or driving into walls, floors or wherever live electrical wires may be encountered, **DO NOT TOUCH ANY METAL PARTS OF THE TOOL! Hold the tool only by the plastic handle(s) / housing to prevent shock.**

- Do not lock the tool ON when drilling by hand. Refer to Operating Instructions-Switching On and Off.
- **Hold drill firmly with both hands to control the twisting action of the drill. If your drill is equipped with a side handle, always use the side handle.**

⚠ **WARNING:** Drill may stall (if overloaded or improperly used) causing a twist. Always expect the stall. Grip the drill firmly to control the twisting action and prevent loss of control which could cause personal injury. If a stall does occur, release the trigger immediately and determine the reason for the stall before re-starting.

- Always unplug the drill when attaching or removing accessories. When attaching accessories in the drill chuck, hand tighten the keyless chuck firmly.

READ ALL INSTRUCTIONS

Operating Instructions

⚠ **WARNING:** To reduce the risk of serious personal injury, read, understand and follow all safety warnings and instructions prior to using tool.

⚠ **WARNING:** It is important to support the work properly and to hold the drill firmly to prevent loss of control which could cause personal injury. If you have any questions on how to properly operate tool, call: 1-800-544-6986.

⚠ **WARNING:** Do not attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and turning the tool on. Damage to the chuck and personal injury may occur when changing accessories.

⚠ **WARNING:** To reduce the risk of injury, always unplug drill from power supply before making any adjustments or changing accessories.

⚠ **WARNING:** To reduce the risk of injury, let the tool work at its own pace. Do not overload.

OPERATING: POWER UNIT

TRIGGER SWITCH & FORWARD/REVERSE SLIDER

The forward/reverse slider (1) is used to control the direction the chuck (6) spin - forward to drive screws, reverse to remove screws. It is located above the variable speed trigger (2). 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.

INSTALLING AND REMOVING TOOL ATTACHMENTS - FIGURE A

⚠ **WARNING: Shock hazard.** Under no circumstances should this product be used near water.

⚠ **WARNING: Burn hazard.** Moving parts within the Power Unit become hot during use. Avoid contact with moving parts within Power Unit when removing and installing accessories.

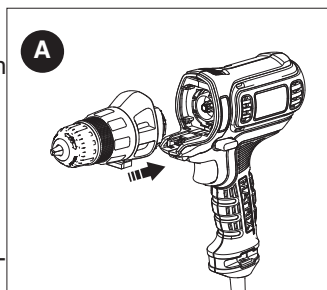
⚠ **WARNING:** To reduce the risk of injury, turn off and unplug the tool before making any adjustments or removing or installing attachments or accessories. Remove any accessory from the tool attachment before removing or installing the attachment.

⚠ **WARNING:** To reduce the risk of injury, do not place fingers or any other object inside the Power Unit, other than the attachments designed to work with the Power Unit.

- To remove an attachment, depress the release button (3) and take the attachment off the tool.
- To fit an attachment, line it up with the tool as shown and push it onto the Power Unit until it snaps into place and an audible click is heard.
- Ensure attachment is securely attached by gently pulling it away from the Power Unit.

NOTE: Only use attachments that are specifically designed for and compatible with the Power Unit.

NOTE: Refer to individual attachment instruction manuals for specific safety warnings and operating instructions before operating attachments with the Power Unit.



OPERATING: DRILL/SCREWDRIVER ATTACHMENT

FITTING AND REMOVING A DRILL BIT OR SCREWDRIVER BIT

The drill/screwdriver attachment (5) is fitted with a keyless chuck (6) to allow for an easy exchange of bits.

- Unplug the Power Unit before installing or removing attachments.
- Open the chuck by turning the front part clockwise with one hand while holding the rear part with the other.
- Insert the bit shaft into the chuck.
- Firmly tighten the chuck by turning the front part counterclockwise.
- To remove the screwdriver bit from the holder, lift the bit from the recess.
- To store the screwdriver bit, firmly push it into the holder (4).

SCREW DRIVING

- Always use the correct type and size of screwdriver bit.
- If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- Always hold the tool and screwdriver bit in a straight line with the screw.
- For driving fasteners, the reversing button should be pushed to the left. Use reverse (button pushed to the right) for removing fasteners. When moving from forward to reverse, or vice versa, always release the trigger switch first.

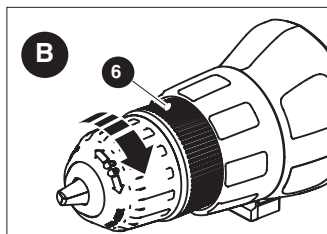
KEYLESS CHUCK - FIGURE B

⚠ WARNING: Make certain the Power Unit is unplugged to prevent switch actuation before installing or removing attachments.

⚠ WARNING: Do not attempt to tighten or loosen drill bits (or any other accessory) by gripping the front part of the chuck and turning the tool on. Damage to the chuck and personal injury may occur when changing accessories.

To insert a drill bit or other accessory:

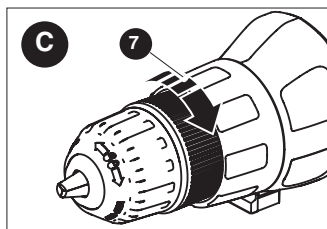
1. Grasp the rear half of the chuck (6) with one hand and use your other hand to rotate the front half in the counterclockwise direction, as viewed from the chuck end.
2. Insert the bit or other accessory fully into the chuck, and tighten securely by holding the rear half of the chuck and rotating the front portion in the clockwise direction as viewed from the chuck end.



TORQUE CONTROL - FIGURE C

This tool is fitted with a torque adjustment collar (7) to select the operating mode and to set the torque for tightening screws. Large screws and hard workpiece materials require a higher torque setting than small screws and soft workpiece materials.

- For drilling in wood, metal and plastics, set the collar to the drilling position symbol .
- For screwdriving, set the collar to the desired setting. If you do not yet know the appropriate setting, proceed as follows:
 - Set the collar to the lowest torque setting.
 - Tighten the first screw.
 - If the clutch ratchets before the desired result is achieved, increase the collar setting and continue tightening the screw. Repeat until you reach the correct setting. Use this setting for the remaining screws.



ON-BOARD BIT STORAGE

A bit storage slot (4) is built-in to the handle of the Power Unit for easy bit storage and access.

DRILLING

- Use sharp drill bits only.
- Support and secure work properly, as instructed in the Safety Instructions.
- Use appropriate and required safety equipment, as instructed in the Safety Instructions.
- Secure and maintain work area, as instructed in the Safety Instructions.
- Run the drill very slowly, using light pressure, until the hole is started enough to keep the drill bit from slipping out of it.
- Apply pressure in a straight line with the bit. Use enough pressure to keep the bit biting but not so much as to stall the motor or deflect the bit.
- **Hold the drill firmly with two hands to control its twisting action.**
- **DO NOT CLICK THE TRIGGER OF A STALLED DRILL OFF AND ON IN AN ATTEMPT TO START IT. DAMAGE TO THE DRILL CAN RESULT.**
- Minimize stalling on breakthrough by reducing pressure and slowly drilling through the last part of the hole.
- Keep the motor running while pulling the bit out of a drilled hole. This will help reduce jamming.
- **Make sure switch turns drill on and off.**

DRILLING IN WOOD

Holes in wood can be made with the same twist drill bits used for metal or with spade bits. These bits should be sharp and should be pulled out frequently when drilling to clear chips from the flutes.

DRILLING IN METAL

Use a cutting lubricant when drilling metals. The exceptions are cast iron and brass which should be drilled dry. The cutting lubricants that work best are sulfurized cutting oil or lard oil.

Troubleshooting

Problem

- Unit will not start.

Possible Cause

- Cord not plugged in.
- Forward/reverse slider not fully depressed in desired direction.
- Circuit breaker is tripped.

Possible Solution

- Plug tool into a working outlet.
- Push slider completely to the left or right.
- Reset circuit breaker.
(If the product repeatedly causes the circuit breaker to trip, discontinue use immediately and have it serviced at a Black & Decker service center or authorized servicer.)
- Have cord or switch replaced at Black & Decker Service Center or Authorized Servicer.
- Make certain the attachment is fully pushed into the Power Unit.

- Cord or switch is damaged.

- Attachment is not secured.

For assistance with your product, visit our website **www.blackanddecker.com** for the location of the service center nearest you or call the BLACK & DECKER help line at **1-800-544-6986**.

MAINTENANCE

Use only mild soap and damp cloth to clean the tool. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

IMPORTANT: To assure product **SAFETY** and **RELIABILITY**, repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or other qualified service personnel, always using identical replacement parts.

ACCESSORIES

⚠ WARNING: The use of any accessory not recommended for use with this tool could be hazardous. Recommended accessories for use with your tool are available from your local dealer or authorized service center. If you need assistance regarding accessories, please call: 1-800-544-6986.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This Class B digital apparatus complies with Canadian ICES-003.

SERVICE INFORMATION

All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the Black & Decker location nearest you. To find your local service location, refer to the yellow page directory under "Tools—Electric" or call: **1-800-544-6986** or visit **www.blackanddecker.com**

FULL TWO-YEAR HOME USE WARRANTY

Black & Decker (U.S.) Inc. warrants this product for two years against any defects in material or workmanship. The defective product will be replaced or repaired at no charge in either of two ways. The first, which will result in exchanges only, is to return the product to the retailer from whom it was purchased (provided that the store is a participating retailer). Returns should be made within the time period of the retailer's policy for exchanges (usually 30 to 90 days after the sale). Proof of purchase may be required. Please check with the retailer for their specific return policy regarding returns that are beyond the time set for exchanges.

The second option is to take or send the product (prepaid) to a Black & Decker owned or authorized Service Center for repair or replacement at our option. Proof of purchase may be required. Black & Decker owned and authorized Service Centers are listed under "Tools-Electric" in the yellow pages of the phone directory.

This warranty does not apply to accessories. This warranty gives you specific legal rights and you may have other rights which vary from state to state or province to province. Should you have any questions, contact the manager of your nearest Black & Decker Service Center. This product is not intended for commercial use.

FREE WARNING LABEL REPLACEMENT: If your warning labels become illegible or are missing, call **1-800-544-6986** for a free replacement.

LATIN AMERICA: This warranty does not apply to products sold in Latin America. For products sold in Latin America, check country specific warranty information contained in the packaging, call the local company or see the website for warranty information.

Imported by:
Black & Decker (U.S.) Inc.,
701 E. Joppa Rd.
Towson, MD 21286 U.S.A.

See 'Tools-Electric'
– Yellow Pages –
for Service & Sales

