



INSTRUCTION MANUAL



Catalog Number BDCDMT112 (12V MAX*)

*Maximum initial battery pack voltage (measured without a workload) is 12 volts. The nominal voltage is 10.8.



Catalog Number BDCDMT120 (20V MAX**)

**Maximum initial battery pack voltage (measured without a workload) is 20 volts. The nominal voltage is 18.

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SAVE THIS MANUAL FOR FUTURE REFERENCE.

VEA EL ESPA—OL 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.
- A 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 Safety Rules

MARNING: 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) BATTERY TOOL USE AND CARE

- a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

6) 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.

Specific Safety Rules

- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. 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 auxiliary handle(s) if supplied with the tool. Loss of control can cause personal injury.
- 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.
- When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright but may be easily knocked over.

- · Keep your hair, clothing, and gloves away from air vents. Air vents often cover moving parts in which these items can be caught.
- Hold tool firmly with two hands, one hand on the handle, and the other gripping the bottom around the battery area. Use auxiliary handle if provided. Loss of control can cause personal injury.
- ${\mathbb A}$ <code>WARNING:</code> 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

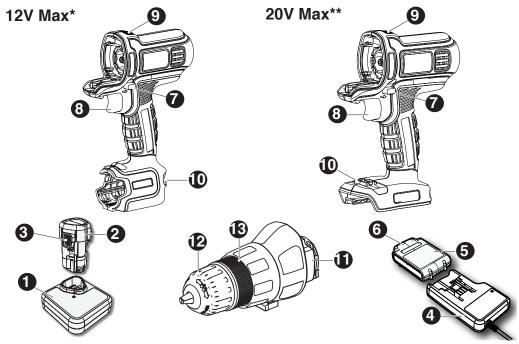
- crystalline sliica from bricks and cement and other masonry products, and
 arsenic and chromium from chemically-treated lumber.
 Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work 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.
- riangle 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.
- Wear appropriate hearing protection during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.
- **⚠ 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 minminutes \simalternating current = --direct current no.....no load speed UClass I Construction ⊕.....earthing terminal (grounded) □Class II Construction .../min or rpm...revolutions or (double insulated) reciprocation per minute ♣Read instruction manual before use \(\varphi \)............Use proper respiratory protectionUse proper eve protection O......Use proper hearing protection

These products use the batteries and chargers listed in the chart below.

These products des are satisfied and chargers need in the chart scient			
Description	Catalog #		
12v Max* Battery:	LB12 / LBX12		
12v Max* Battery Charger:	LCS12		
20v Max** Lithium-Ion Battery:	LBXR20		
20v Max** Lithium-Ion Battery:	LB20 / LBX20		
20v Max** Lithium-Ion Battery Charger:	LCS20		
2 Amp Fast Charger:	L2AFC		
2 Amp Fast Charger:	L2AFCBST		



FUNCTIONAL DESCRIPTION

- 1. 12v Max* battery charger
- 2. 12v Max* battery
- 3. 12v Max* battery release button 8. Variable speed trigger
- 4. 20v Max** battery charger
- 5. 20v Max** batterv
- 7. Forward/reverse slider
- 9. Attachment release button
- 10. Bit holder
- 6. 20v Max** battery release button 11. Drill/screwdriver attachment
 - 12. Keyless chuck
 - 13. Torque adjustment collar

Double-ended bit tip (not shown)

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CHARGERS

SAVE THESE INSTRUCTIONS: This manual contains important safety instructions for battery chargers.

• Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.

⚠ WARNING: Shock hazard. Do not allow any liquid to get inside charger.

⚠ CAUTION: Burn hazard. To reduce the risk of injury, charge only designated *Black* & *Decker* batteries. Other types of batteries may burst causing personal injury and damage.

⚠ CAUTION: Under certain conditions, with the charger plugged in to the power supply, the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

△WARNING:

- DO NOT attempt to charge the battery pack with any chargers other than the ones in this manual. The charger and battery pack are specifically designed to work together.

 These chargers are not intended for any uses other than charging designated Black & Decker rechargeable batteries. Any other uses may result in risk of fire, electric shock or electrocution.
- Do not expose charger to rain or snow.
- Pull by plug rather than cord when disconnecting charger. This will reduce risk of damage to electric plug and cord.
- Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

- Do not use an extension cord unless it is absolutely necessary. Use of improper extension cord could result in risk of fire, electric shock, or electrocution.
- An extension cord must have adequate wire size (AWG or American Wire Gauge) for safety. The smaller the gauge number of the wire, the greater the capacity of the cable, that is 16 gauge has more capacity than 18 gauge. When using more than one extension to make up the total length, be sure each individual extension contains at least the minimum wire size.

Minimum Gauge for Cord Sets							
Volts			Total Ler	ngth of C	ord in Feet		
120V		0-25	26-50	51-100			
		(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							
More	More Not more		American Wire Gauge				
Than	Thar	า		`			
0 -	6	18	16	16	14		
6 -	10	18	16	14	12		
10 -	12	16	16	14	12		
12 -	16	14	12	Not Re	ecommended		

- Do not place any object on top of charger or place the charger on a soft surface that
 might block the ventilation slots and result in excessive internal heat. Place the charger
 in a position away from any heat source. The charger is ventilated through slots in the top
 and the bottom of the housing.
- Do not mount charger on wall or permanently affix charger to any surface. The charger is intended to use on a flat, stable surface (i.e., table top, bench top).
- Do not operate charger with damaged cord or plug have them replaced immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to an authorized service center.
- Do not disassemble charger; take it to an authorized service center when service or repair is required. Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
- Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk.
- NEVER attempt to connect 2 chargers together.
- The charger is designed to operate on standard household electrical power (120 Volts). Do not attempt to use it on any other voltage.

SAVE THESE INSTRUCTIONS IMPORTANT SAFETY INSTRUCTION FOR BATTERY PACKS

MARNING: For safe operation, read this manual and manuals originally supplied with tool before using the charger.

The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.

READ ALL INSTRUCTIONS

- Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire. Toxic fumes and materials are created when battery packs are burned.
- Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger may ignite the dust or fumes.
- If battery contents come into contact with the skin, immediately wash area with mild soap and water. If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte for Lithium-lon batteries is composed of a mixture of liquid organic carbonates and lithium salts.
- Contents of opened battery cells may cause respiratory irritation. Provide fresh air. If symptoms persist, seek medical attention.

△ WARNING: Burn hazard. Battery liquid may be flammable if exposed to spark or flame.

· Charge the battery packs only in Black & Decker chargers.

- · DO NOT splash or immerse in water or other liquids. This may cause premature cell failure.
- Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 105°F (40°C) (such as outside sheds or metal buildings in summer).

⚠ **WARNING:** Never attempt to open the battery pack for any reason. If battery pack case is cracked or damaged, do not insert into charger. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (i.e., pierced with a nail, hit with a hammer, stepped on). Damaged battery packs should be returned to service center for recycling.

△WARNING: Fire hazard. Do not store or carry battery so that metal objects can contact exposed battery terminals. For example, do not place battery in aprons, pockets, tool boxes, product kit boxes, drawers, etc., with loose nails, screws, keys, etc. Transporting batteries can possibly cause fires if the battery terminals inadvertently come in contact with conductive materials such as keys, coins, hand tools and the like. The US Department of Transportation Hazardous Material Regulations (HMR) actually prohibit transporting batteries in commerce or on airplanes (i.e., packed in suitcases and carry-on luggage) UNLESS they are properly protected from short circuits. So when transporting individual batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit. are protected and well insulated from materials that could contact them and cause a short circuit. NOTE: Lithium-Ion batteries should not be put in checked baggage.

STORAGE RECOMMENDATIONS

1. The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold. Long storage will not harm the battery pack or charger.

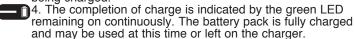
12VOLT MAX* BATTERY PACK (BDCDMT112) CHARGING, INSTALLING, AND REMOVING

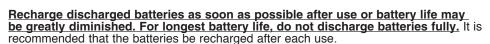
12VOLT MAX* CHARGING PROCEDURE

Black & Decker chargers are designed to charge Black & Decker battery packs in 3-5 hours depending on the pack being charged. 1. Plug the charger (1) into an appropriate outlet before inserting the battery pack (2).

Insert the battery pack into the charger. (Figure A)

. The green LED will flash indicating that the battery pack is being charged.





CHARGER DIAGNOSTICS

This charger is designed to detect certain problems that can arise with the battery packs or the power source. Problems are indicated by one LED flashing in different patterns. **BAD BATTERY**

The charger can detect a weak or damaged battery. The red LED flashes in the pattern indicated on the label. If you see this bad battery blink pattern, do not continue to charge the battery. Return it to a service center or a collection site for recycling.

HOT/COLD PACK DELAY

When the charger detects a battery that is excessively hot or excessively cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery has normalized. After this happens, the charger automatically switches to the Pack Charging mode. This feature ensures maximum battery life. The red LED flashes in the pattern indicated on the label.

IMPORTANT CHARGING NOTES

1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 75°F (18°- 24°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will prevent serious damage to the battery pack.

2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.

3. If the battery pack does not charge properly:

a. Check current at receptacle by plugging in a lamp or other appliance.

- b. Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights.
- c. Move charger and battery pack to a location where the surrounding air temperature is approximately 65°F 75°F (18°- 24°C).

d. If charging problems persist, take the tool, battery pack and charger to your local service center.

- 4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.
- 5. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

6. Do not freeze or immerse charger in water or any other liquid.

WARNING: Shock hazard. Do not allow any liquid to get inside charger. Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling.

12VOLT 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 as shown in **Figure B**. Make sure the battery pack is fully seated and latched into position.

TO REMOVE BATTERY PACK: Depress the battery release button (3) as shown in **Figure C** and pull battery pack out of the Power Unit.



20VOLT MAX** BATTERY PACK (BDCDMT120) CHARGING, INSTALLING, AND REMOVING

20VOLT MAX** CHARGING PROCEDURE

Black & Decker chargers are designed to charge Black & Decker battery packs in 5-8 hours depending on the pack being charged.

1. Plug the charger (4) into an appropriate outlet before inserting the battery pack (5).

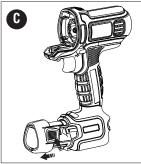
2. Insert the battery pack into the charger as shown in **Figure D**.

3. The green LED will flash indicating that the battery is being charged.

4. The completion of charge is indicated by the green LED rem pack is fully charged and may be used at this time or left on the

Recharge discharged batteries as soon as possible after use obe greatly diminished. For longest battery life, do not discharge recommended that the batteries be recharged after each use.





This charger is designed to detect certain problems that can arise with the battery packs or the power source. Problems are indicated by one LED flashing in different patterns.

BAD BATTERY

The charger can detect a weak or damaged battery. The red LED flashes in the pattern indicated on the label. If you see this bad battery blink pattern, do not continue to charge the battery. Return it to a service center or a collection site for recycling.

HOT/COLD PACK DELAY

When the charger detects a battery that is excessively hot or excessively cold, it automatically starts a Hot/Cold Pack Delay, suspending charging until the battery has normalized. After this happens, the charger automatically switches to the Pack Charging mode. This feature ensures maximum battery life. The red LED flashes in the pattern indicated on the label.

LEAVING THE BATTERY IN THE CHARGER

The charger and battery pack can be left connected with the green LED glowing indefinitely. The charger will keep the battery pack fresh and fully charged.

IMPORTANT CHARGING NOTES

1. Longest life and best performance can be obtained if the battery pack is charged when the air temperature is between 65°F and 75°F (18°- 24°C). DO NOT charge the battery pack in an air temperature below +40°F (+4.5°C), or above +105°F (+40.5°C). This is important and will

prevent serious damage to the battery pack.

2. The charger and battery pack may become warm to touch while charging. This is a normal condition, and does not indicate a problem. To facilitate the cooling of the battery pack after use, avoid placing the charger or battery pack in a warm environment such as in a metal shed, or an uninsulated trailer.

a. Check current at receptacle by plugging in a lamp or other appliance
b. Check to see if receptacle is connected to a light switch which turns power off
when you turn out the lights.

c. Move charger and battery pack to a location where the surrounding air temperature is approximately 65°F - 75°F (18°- 24°C).
d. If charging problems persist, take the tool, battery pack and charger to your local service center.

service center.

4. The battery pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Follow the charging procedure. You may also charge a partially used pack whenever you desire with no adverse affect on the battery pack.

5. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil, or any buildup of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

charger before attempting to clean.

6. Do not freeze or immerse charger in water or any other liquid.

△ WARNING: Shock hazard. Do not allow any liquid to get inside charger. Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks or cracks, return to a service center for recycling.

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 - foward 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.

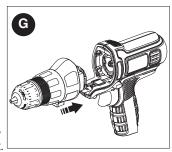
- The Power Unit is turned ON and OFF by pulling and releasing the trigger. The farther the trigger is depressed, the higher the speed of the Power Unit.
- A forward/reverse control slider determines the direction of the tool.
- To select forward rotation, release the trigger switch and depress the forward/reverse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

INSTALLING AND REMOVING ATTACHMENTS - FIGURE G

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

Unit become hot during use. Avoid contact with moving parts within Power Unit when removing and installing accessories.

WARNING: Before assembly, lock the Power Unit by setting the forward/reverse slider (7) to the center position and remove the battery from the Power Unit. Remove any accessory from the attachment before removing or installing the attachment.



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

- Lock the Power Unit by setting the forward/reverse slider (7) to the center position.
- To remove an attachment, depress the release button (9) 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 SAFETY WARNINGS AND INSTRUCTIONS: DRILLS

- Hold drill firmly with one hand on the grip and the other hand on the bottom of the battery pack unless an auxillary handle has been supplied with the tool. Use auxillary handle if supplied with the tool.
- 2. When attaching accessories in the drill chuck, hand tighten the keyless chuck firmly.

 \triangle **WARNING:** Drill may stall (if overloaded or improperly used) causing a twist. Always expect the stall. Grip the drill firmly with both hands 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.

WARNING: Let the tool work at its own pace. Do not overload.

△WARNING: Before drilling into walls, floors or ceilings, check for the location of wiring and pipes.

FITTING AND REMOVING A DRILL BIT OR SCREWDRIVER BIT

The drill/screwdriver attachment (11) is fitted with a keyless chuck (12) to allow for an easy exchange of bits.

Lock the tool by setting the forward/reverse slider (7) to the center position.

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 (10).

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 H

⚠ WARNING: To reduce the risk of injury, turn off and remove battery from the tool before making any adjustments or removing or installing attachments or accessories.

⚠ **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:

- Grasp the rear half of the chuck (12) with one hand and use your other hand to rotate the front half in the counterclockwise direction, as viewed from the chuck end.
- 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.



This tool is fitted with a torque adjustment collar (13) 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.

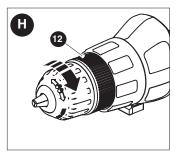
- For drilling in wood, metal and plastics, set the collar to the drilling position symbol
- For screwdriving, set the collar to the desired setting. If you do not yet know the appropriate setting, proceed as follows:
 - · Set the collar to the lowest torque setting.
 - Tighten the first screw.
 - If 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 (10) is built-in to the area just above the battery pack 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	
<u>Problem</u>	Possible Cause	Possible Solution
 Unit will not start. 	 Battery pack not installed properly. 	 Check battery pack installation.
	Battery pack not charged.	 Check battery pack charging requirements.
	Attachment is not secured.	 Make certain the attachment is fully pushed into the Power Unit.
Battery pack will not charge.	Battery pack not inserted into charger.	• Insert battery pack into charger until LED illuminates.
	Charger not plugged in.	 Plug charger into a working outlet. Refer to "Important Charging Notes" for more details.
	Surrounding air temperature too hot or too cold.	• 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.	Allow battery pack to cool down.
	• Out of charge. (To	Place on charger and
	maximize the life of the battery pack it is designed to shutoff abruptly when the charge is depleted.)	allow to charge.

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.

The RBRC™ Seal

The RBRC™ (Rechargeable Battery Recycling Corporation) Seal on the lithium-ion battery (or battery pack) indicates that the costs to recycle the battery (or battery pack) at the end of its useful life have already been paid by Black & Decker. In some areas, it is illegal to place spent lithium-ion batteries in the trash or municipal solid waste stream and the RBRC program provides an environmentally conscious alternative. RBRC in cooperation with Black & Decker and other battery users, has established



programs in the United States and Canada to facilitate the collection of spent lithium-ion batteries. Help protect our environment and conserve natural resources by returning the tool to an authorized Black & Decker service center for recycling. You may also contact your local recycling center for information on where to drop off the spent battery, or call **1-800-8-BATTERY.**

This Class B digital apparatus complies with Canadian ICES-003.

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

- 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.

be determined by turning the equipment off and on, the user is encouraged to try to correct the

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





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