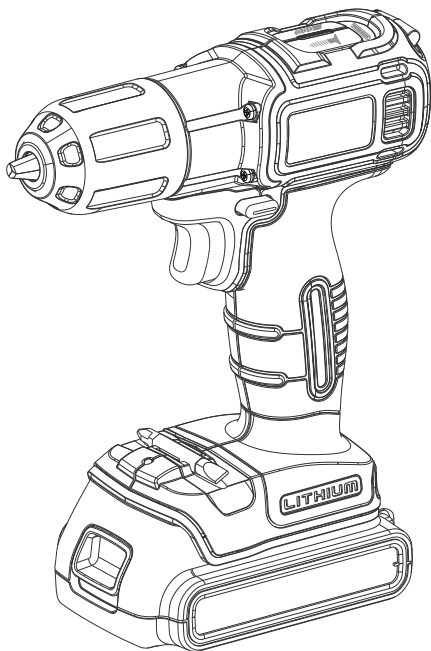


BLACK+ DECKER™

20V MAX* LITHIUM DRILL/DRIVER

MANUAL

**CATALOG NUMBER
BDCDE120**



Thank you for choosing Black+Decker!

PLEASE READ BEFORE RETURNING THIS PRODUCT FOR ANY REASON.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

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

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 RULES

⚠ 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.

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

- 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. *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.*
- 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.*

⚠ 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.

⚠ 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.

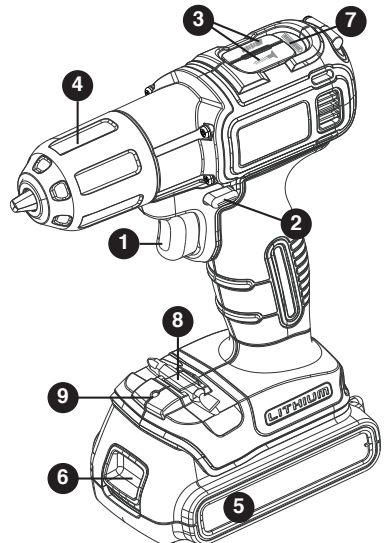
SYMBOLS

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
- min minutes
- ~ or AC..... alternating current
- == or DC... direct current
- n_0 no load speed
- ⚠..... Class I Construction (grounded)
- ⊕..... earthing terminal
- ⚠..... safety alert symbol
- Class II Construction (double insulated)
- .../min or rpm... revolutions or reciprocation per minute
- 📖 Read instruction manual before use
- 👤..... Use proper respiratory protection
- 👁..... Use proper eye protection
- 👂..... Use proper hearing protection

FUNCTIONAL DESCRIPTION

1. Variable speed switch
2. Forward/reverse button
3. Mode select buttons
4. Single sleeve keyless chuck
5. Battery
6. Battery release button
7. State of charger indicator
8. Screwdriver bit holder
9. LED work light



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.**
- **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

⚠ WARNING: 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-Ion 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. NOTE: Lithium-Ion batteries should not be put in checked baggage.

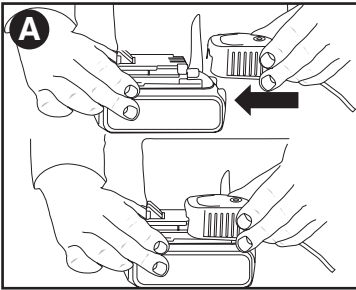
STORAGE RECOMMENDATIONS

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

CHARGING PROCEDURE

Black+Decker chargers are designed to charge **Black+Decker** battery packs in 3-4 hours depending on the pack being charged.

1. Plug the charger into an appropriate outlet before inserting the battery pack.
2. Insert the battery pack into the charger as shown in **figure A**.



3. The green LED will flash indicating that the battery is being charged.
4. The completion of charge is indicated by the green LED remaining on continuously. The pack is fully charged and may be used at this time or left on the charger.

Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished. For longest battery life, do not discharge batteries fully.

It is recommended that the batteries be recharged after each use.

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.

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.*

SAFETY WARNINGS AND INSTRUCTIONS: DRILLS

1. Hold drill firmly with one hand on the grip and the other hand on the bottom of the battery pack.
2. When attaching accessories in the drill chuck, hand tighten the keyless chuck firmly.

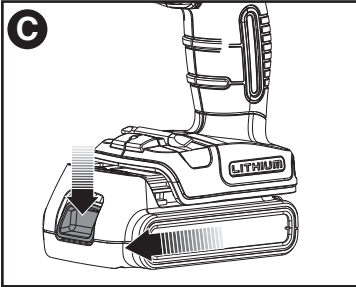
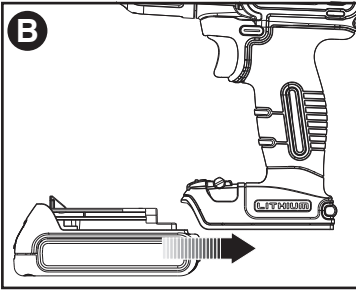
⚠ WARNING: Drill may stall (if overloaded or improperly used) causing a twist. Always expect the stall. Grip the drill firmly with both hands to control the twisting action and prevent loss of control which could cause personal injury. If a stall does occur, release the trigger immediately and determine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

INSTALLING AND REMOVING THE BATTERY PACK FROM THE TOOL

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

TO INSTALL BATTERY PACK: Insert battery (5) into tool until an audible click is

heard (**figure B**). Ensure battery pack is fully seated and fully latched into position. **TO REMOVE BATTERY PACK:** Depress the battery release button (6) as shown in **figure C** and pull battery pack out of tool.

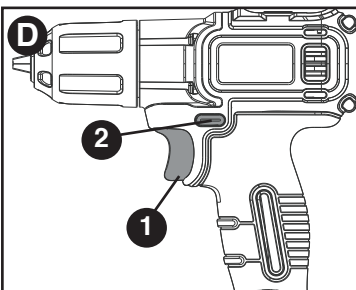


OPERATING INSTRUCTIONS

TRIGGER SWITCH & REVERSING BUTTON (FIGURE D)



- The drill is turned ON and OFF by pulling and releasing the trigger switch (1). The farther the trigger is depressed, the higher the speed of the drill.
- A forward/reverse control button (2) determines the direction of the tool and also serves as a lock off button.
- 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 the opposite direction.

NOTE: The center position of the control button locks the tool in the off position. When changing the position of the control button, be sure the trigger is released.



DRILL / DRIVE MODE SELECT (FIGURE E)

This drill is equipped with mode select buttons (3) to quickly and easily change the performance of the tool to drilling or driving based upon your project.

- To set the tool to drive mode, press the button marked with the  symbol.
- To set the tool to drill mode, press the button marked with the  symbol.

NOTE: A blue LED will light the symbol for the mode that is selected.

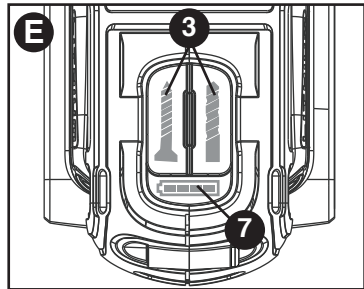
AUTOSENSE

This tool is equipped with AUTOSENSE technology that automatically stops most screws flush.

- Ensure the forward/reverse button (2) is pushed to the left and drive mode is selected (**Figure E**).
- Pull the trigger switch (1) to drive a screw into the workpiece. Drill automatically stops most screws flush in the material on the first try. If drill stops sooner than desired, release the trigger and pull trigger again.
- If a deeper screw is desired, continue to hold the trigger switch. After a moment the drill will begin to make short rotations to drive the screw deeper at a more controllable pace.
- Once the desired depth is reached, release the trigger switch.

NOTE: Similar to traditional drill/drivers – it is important to apply firm pressure to the back of the drill to ensure the screw bit doesn't slip out of the screw head. If the screw bit does slip out reinsert the screw bit and increase your pressure to the back of the tool.

NOTE: AUTOSENSE Technology works with most material, but may not operate with certain materials or screws.



STATE OF CHARGE INDICATOR (FIGURE E)

The drill is equipped with a state of charge indicator. This can be used to display the current level of charge in the battery during use. It does not indicate tool functionality and is subject to variation based on product components, temperature, and end-user application.

Checking state of charge during use:

- Insert the battery (5) into the tool as shown in **Figure B**.
- Press both mode select buttons (3) or depress the trigger switch (1).

- The four green LEDs will illuminate, indicating the percent of charge in the battery. If all four are lit, battery has a full charge. If LEDs do not illuminate, charge battery.

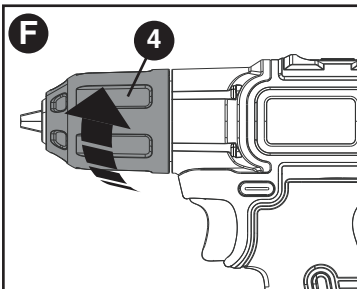
NOTE: The state of charge LEDs will also light when the trigger is pulled to indicate the state of charge while the drill is in use.

SINGLE SLEEVE KEYLESS CHUCK (FIGURE F)

⚠ WARNING: Make certain the lock-off button is engaged to prevent switch actuation before installing or removing accessories. To insert a drill bit or other accessory:

1. Grasp the handle of the drill with one hand and use your other hand to rotate the chuck (4) 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 handle and rotating the chuck clockwise as viewed from the chuck end.

⚠ 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.



ON BOARD BIT HOLDER (FIGURE G)

A screwdriver bit holder (8) is built into the area just above the battery pack.

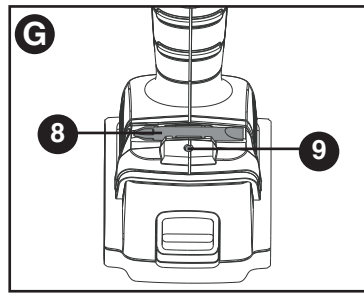
LED WORK LIGHT (FIGURE G)

When the drill is activated by pulling the trigger switch (1), the integrated LED work light (9) will automatically illuminate the work area.

NOTE: The work light is for lighting the immediate work surface and is not intended to be used as a flashlight.

SCREW DRIVING

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.



DRILLING

- Ensure the forward/reverse button (2) is pushed to the left and drill mode is selected (**Figure E**). AUTONSENSE will be deactivated.
- 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.

⚠ WARNING: When this tool is in drill mode it may stall if overloaded, causing a sudden twist.

- 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.

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

Recommended accessories for use with your tool are available from your local dealer or authorized service center.

⚠ WARNING: The use of any accessory not recommended for use with this tool could be hazardous.

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.



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.

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

TROUBLESHOOTING

Problem

• AUTOSENSE Technology doesn't work or stops prematurely.

• Unit will not start.

• Battery pack will not charge.

• Unit shuts off abruptly.

Possible Cause

• AUTOSENSE Technology disengaged

• Tool in drill mode.

• Not enough pressure when driving.

• Battery pack not installed properly.

• Battery pack not charged.

• 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

• Release the trigger and depress it again to reactivate the AUTOSENSE technology.

• Ensure tool is in screwdriver mode as described in "Drill / Drive Mode Select."

• Try again and apply a substantial amount of pressure to the back of the tool.

• Check battery pack installation.

• Check battery pack charging requirements.

• Insert battery pack into charger until green LED appears.

• 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.