



ITEM #0437513

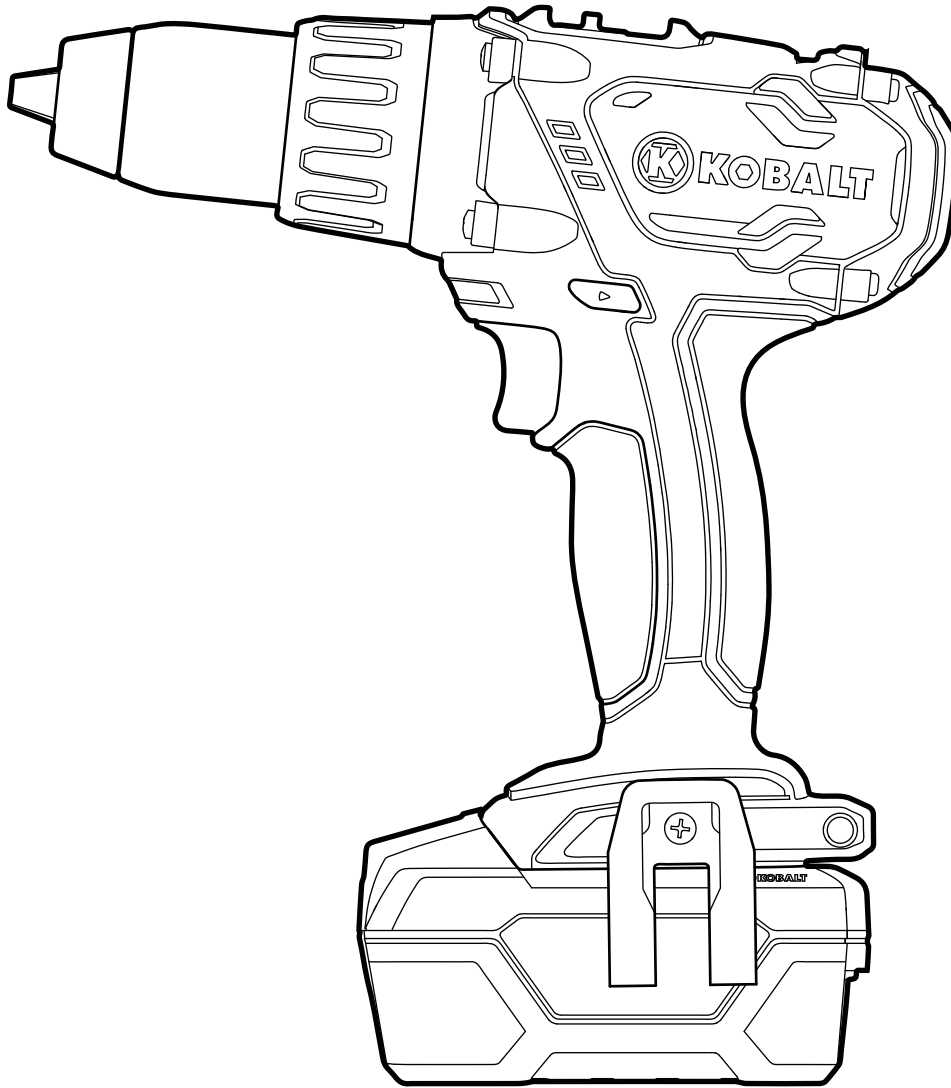
# 20-VOLT LITHIUM-ION DRILL/DRIVER

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MODEL #K20LD-26A

Français p. 19

Español p. 37



**ATTACH YOUR RECEIPT HERE**

**Serial Number** \_\_\_\_\_ **Purchase Date** \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-800-356-2258), 8 a.m.-8 p.m., EST, Monday - Friday.

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## PRODUCT SPECIFICATIONS

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COMPONENT	SPECIFICATIONS
Motor	20 Volt DC
Switch	VSR (Variable Speed Reversible)
No-load speed	0-450/0-1,600 RPM
Clutch settings	23+1
Chuck capacity	1/2 in.
Maximum torque	455 in. lbs.



## SAFETY INFORMATION

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### Know the Tool

To operate this tool, carefully read this manual and all labels affixed to the drill/driver before using it. Keep this manual available for future reference.

### Important

This tool should only be serviced by a qualified service technician.

### Read All Instructions Thoroughly

### General Safety Rules For All Power Tools



**WARNING: Read all safety warnings and all instructions.** Failure to follow all 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.

### Work Area Safety

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **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.



## SAFETY INFORMATION

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### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust-extraction and collection, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power Tool Use and Care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, 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.



## SAFETY INFORMATION

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### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When a battery pack is not in use, keep it away from other metal objects, such as 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.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek medical help.** Liquid ejected from the battery may cause irritation or burns.

### Service

- **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 For Cordless Drill/Driver

- **Hold a power tool by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Secure the workpiece.** Clamping devices or a vise will hold the workpiece in place better and more safely than holding it by hand.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Before performing any kind of work on the machine (e.g., maintenance, tool change, etc.), as well as when transporting and storing it, always set the rotational direction switch to the center position.** Unintentional activation of the On/Off switch may result in personal injury.
- **Do not open the battery. There is risk of a short circuit.**
- **Protect the battery from heat and fire.** There is risk of explosion.
- **When working with the power tool, always hold it firmly with both hands and provide a secure stance.** The power tool is guided more securely with both hands.

## SAFETY INFORMATION

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 **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, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

**Your risk from these exposures varies, depending upon how often you do this type of work.**

**To reduce your exposure to these chemicals:**

- Work in a well-ventilated area.
- Work with approved safety equipment, such as 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 or eyes or to lie on the skin may promote absorption of harmful chemicals.**

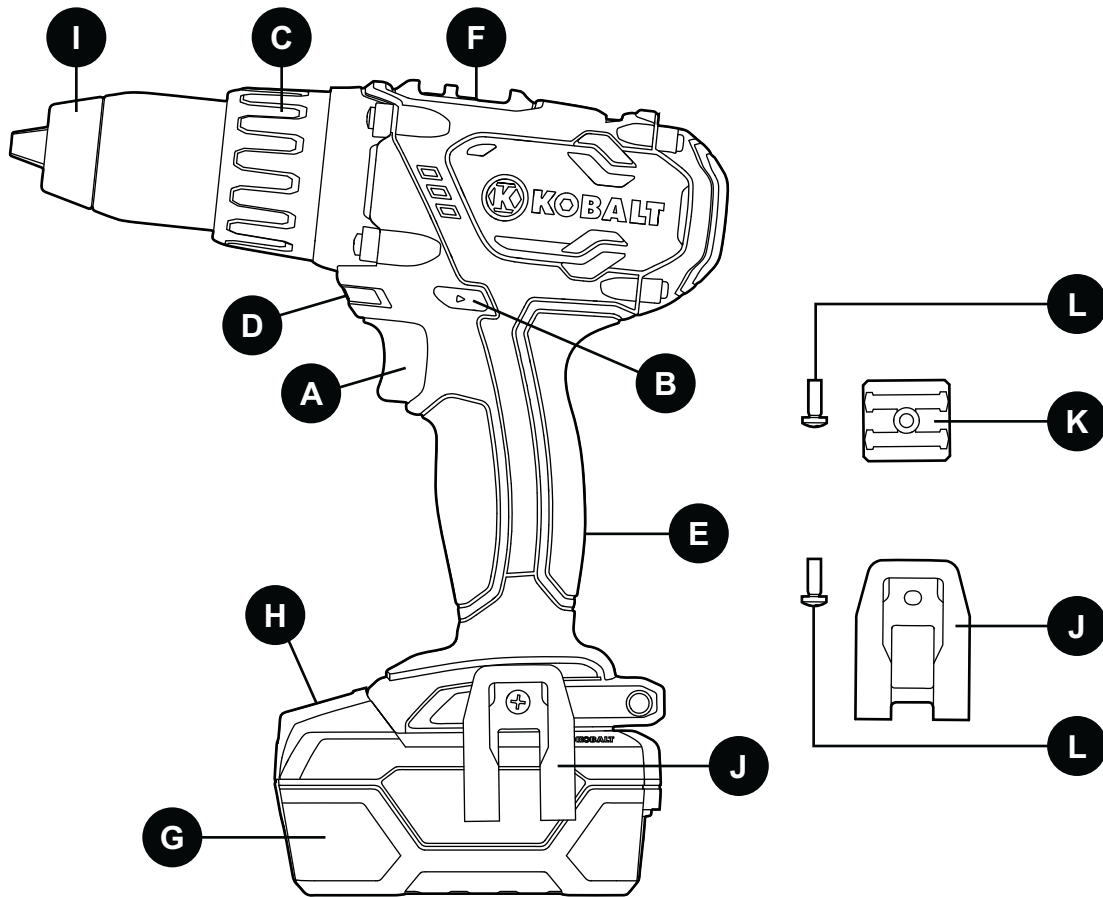
## PREPARATION

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### **Know Your Cordless Drill/Driver**

Before attempting to use the drill/driver, familiarize yourself with all of its operating features and safety requirements.

## PACKAGE CONTENTS



PART	DESCRIPTION
A	Variable-speed trigger switch
B	Direction-of-rotation selector (forward/center lock/reverse)
C	Torque-adjustment ring
D	LED work light
E	Handle
F	Gear selector
G	Battery pack
H	Battery-release button
I	Keyless chuck
J	Belt clip (1)
K	Bit holder (1)
L	Screws (2)

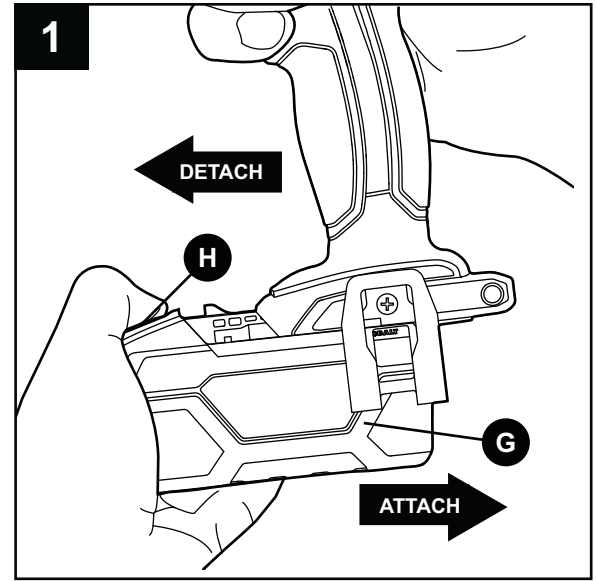
**⚠ WARNING:** Do not allow familiarity with the drill/driver to cause carelessness. Remember that one careless moment is enough to cause severe injury. Before attempting to use any tool, be sure to become familiar with all of the operating features and safety instructions.

# OPERATING INSTRUCTIONS

## 1. To Attach Battery Pack

- Place the direction-of-rotation selector (B) in the center (locked) position.
- Align the raised portion on the battery pack (G) with the grooves on the bottom of the drill/driver, and then slide the battery pack onto the drill/driver as shown.
- Make sure that the latch on the battery pack snaps into place and the battery pack is secured to the drill/driver before beginning operation.

**NOTICE:** When placing the battery pack on the tool, be sure that the raised rib on battery pack aligns with the groove on the drill/driver and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.



## To Detach Battery Pack (Fig. 1)

- Make sure that the trigger switch (A) is in the "OFF" position.
- Press the battery-release button (H) to release the battery pack.
- Pull forward on the battery pack to remove it from the drill/driver.

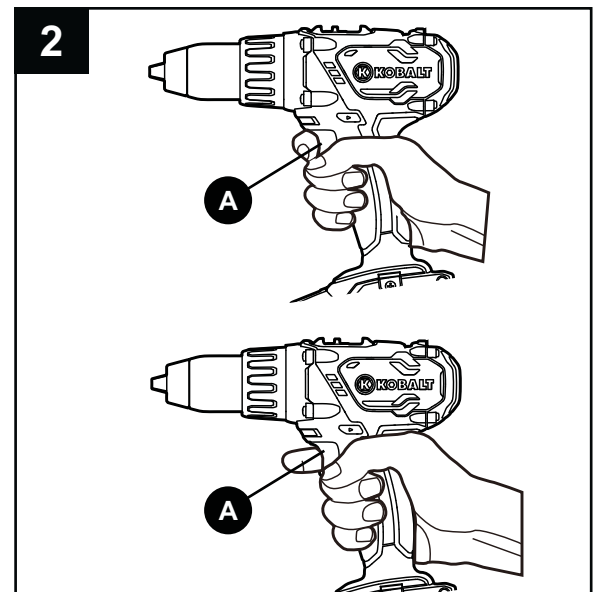
**WARNING:** Battery tools are always in operating condition. Therefore, the direction-of-rotation selector should always be locked (center) when the tool is not in use or when carrying the tool at your side.

## 2. Trigger Switch

To turn the drill/driver ON, depress the trigger switch (A). To turn it OFF, release the trigger switch.

### Variable Speed

The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decrease d trigger pressure.





## OPERATING INSTRUCTIONS

### 3. Two-Speed Gear Box

The drill/driver has a two-speed gear box designed for drilling or driving at two different variable-speed ranges. A gear selector (F) is located on the top of the drill/driver to select either **1** (Low) or **2** (High) speed.

When set to **1**, the drill/driver will deliver lower speeds and increased power and torque.

When set to **2**, the drill/driver will deliver higher speeds and reduced power and torque.

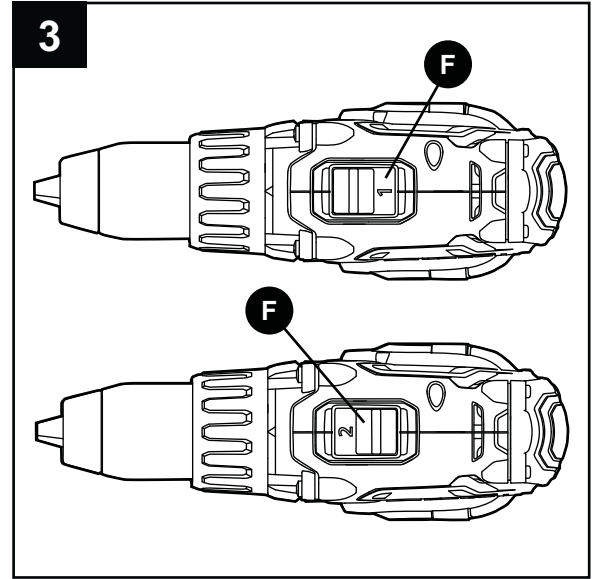
Use **1** for high power and high torque applications and **2** for fast drilling or driving applications.

Use **1** for starting holes without a center punch, drilling metals, plastics or ceramics, or in applications that require a higher torque.

**2** is better for drilling wood and wood composites and for using abrasive and polishing accessories.

**NOTICE:** Never change gears while the tool is running. Failure to obey this caution could result in serious damage to the drill/driver.

**NOTICE:** Avoid running the drill/driver at **1** speed for extended periods of time. Running at **1** speed under constant use may cause the drill/driver to become overheated. If this occurs, cool the drill/driver by running it without a load at **2** speed.



## OPERATING INSTRUCTIONS

### 4. Direction-of-Rotation Selector (Forward/Center Lock/Reverse)

The direction of bit rotation is reversible and is controlled by a selector located above the trigger switch (A). With the drill/driver held in the normal operating position, pointing away from you:

- Position the direction-of-rotation selector (B) to the left of the tool for forward rotation.
- Position the direction-of-rotation selector to the right of the tool for reverse rotation.
- Setting the switch in the OFF (center lock) position helps reduce the possibility of accidental starting when not in use.

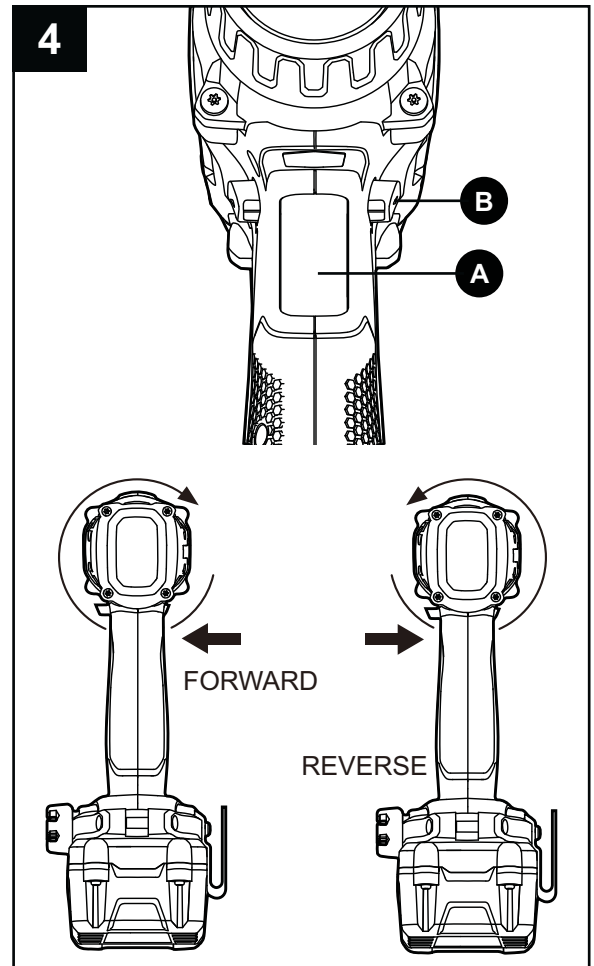
**NOTICE:** To prevent gear damage, always allow the drill/driver to come to a complete stop before changing the direction of rotation.

**NOTICE:** The drill/driver will not run unless the direction-of-rotation selector is engaged fully to the left or right.

#### Electric Brake

To stop the drill/driver, release the trigger switch and allow the tool to come to a complete stop. The electric brake quickly stops the rotation. This feature engages automatically when you release the trigger switch.

**NOTICE:** This drill/driver is equipped with an electric brake. When the brake is functioning properly, sparks may be visible through the vent slots in the housing. This is normal and is the action of the brake.

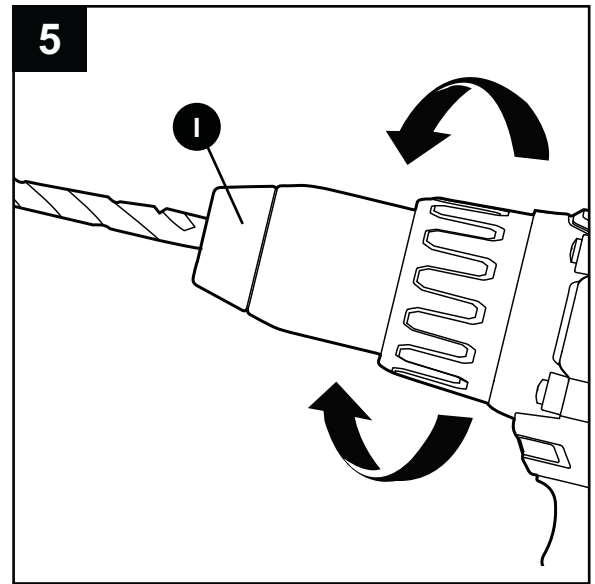


## OPERATING INSTRUCTIONS

### 5. Keyless Chuck

The drill/driver has a keyless chuck (I) to tighten or release drill bits in the chuck jaws. The arrows on the chuck indicate the direction in which to rotate the chuck body in order to GRIP (tighten) or OPEN (release) the chuck jaws on the drill bit.

**! WARNING:** Do not hold the chuck body with one hand and use the power of the drill/driver to tighten the chuck jaws on the drill bit. The chuck body could slip in your hand, or your hand could slip and come in contact with the rotating bit. This could cause an accident resulting in serious personal injury.



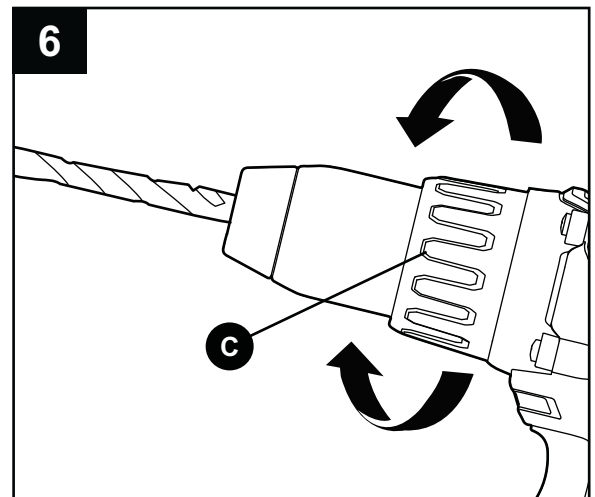
### 6. Adjustable Torque Clutch

The torque clutch can be adjusted to 23 driving settings and 1 drilling setting. The higher the torque setting, the more force the drill/driver produces to turn an object.

When using the drill/driver for different driving applications, it is necessary to increase or decrease the torque to help prevent the possibility of damaging screw heads, threads, workpiece, etc.

Adjust the torque by rotating the torque-adjustment ring (C). The proper setting depends on the job and the type of bit, fastener, and material you will be using. In general, use greater torque for larger screws. If the torque is too high, the screws may be damaged or broken. For delicate operations, such as removing a partially stripped screw, use a low torque setting. For operations such as driving into hardwood, use a higher torque setting.

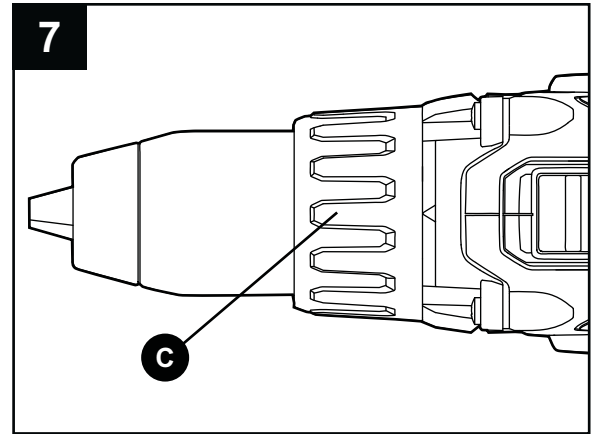
**! CAUTION:** Do not change the torque setting when the tool is running.



## OPERATING INSTRUCTIONS

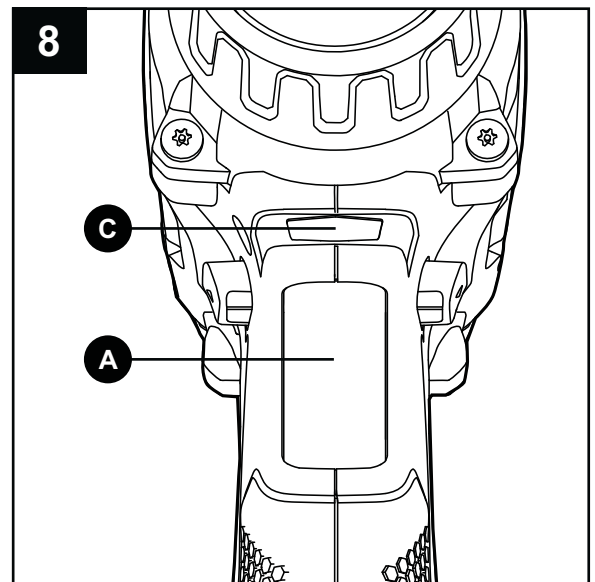
### 7. Drill Mode

Select the drill mode for drilling and other heavy-duty applications. To select the drill mode, rotate the torque- adjustment ring (C) until the drill icon aligns with the torque indicator and clicks into position.



### 8. LED Work Light

The LED work light (D), located above the trigger switch (A), will illuminate when the trigger switch is depressed. This provides additional light on the surface of the workpiece for operation in lower-light areas. The LED work light will turn off when the trigger switch is released.

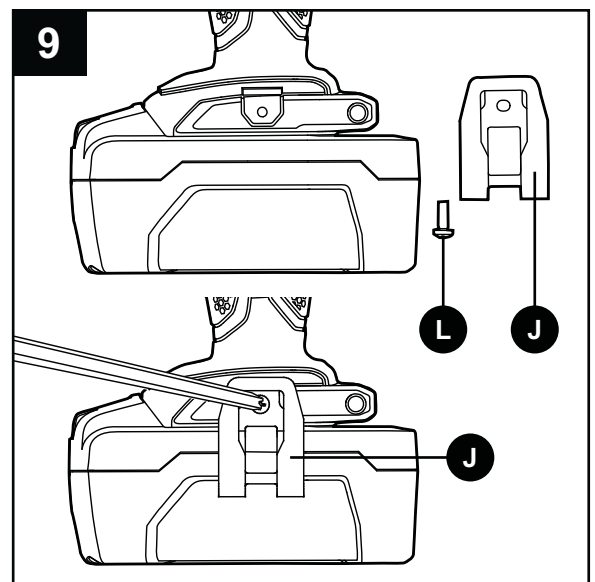


### 9. Installing The Belt Clip

- Align the rib of the belt clip (J) with the hole on the base of the drill.
- Insert the screw (L) and tighten the screw securely with a Phillips screwdriver (not included).

#### Removing the Belt Clip (Fig. 9)

- Use a screwdriver to loosen the screw (L) that attaches the belt clip (J) to the drill.
- Remove the screw and the belt clip.



## OPERATING INSTRUCTIONS

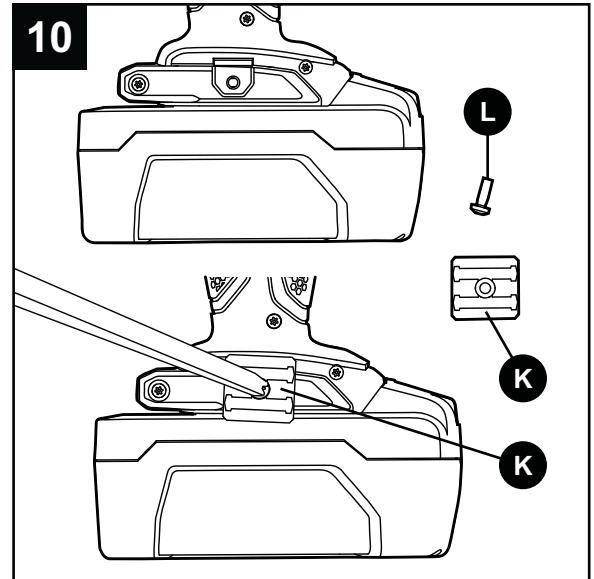
### 10. Installing the Bit Holder

The bit holder at the base of the tool can store 2 bits.

- Align the rib of bit holder (K) with the hole on the base of the drill.
- Insert the screw (L) and tighten the screw securely with a Phillips screwdriver (not included).

#### Removing The Bit Holder (Fig. 10)

- Use a screwdriver to loosen the screw (L) that attaches the bit holder (K) to the drill.
- Remove the screw and the bit holder.

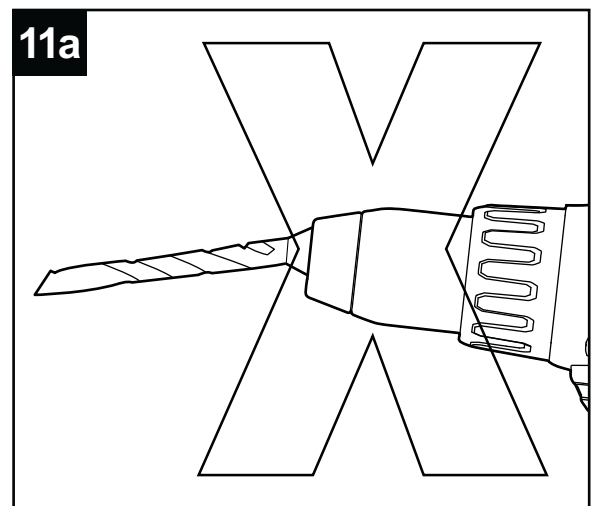
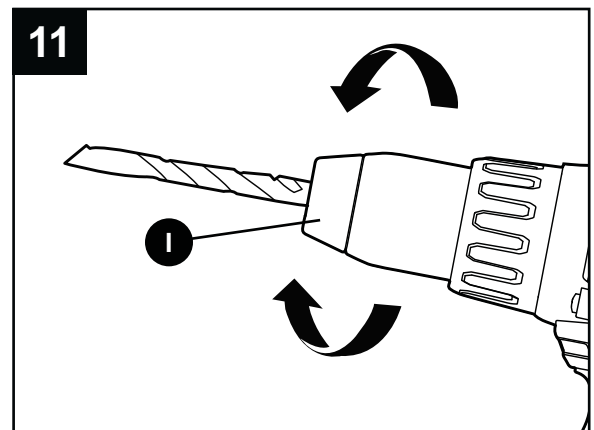


### 11. Installing Bits

- Lock the trigger switch by placing the direction-of-rotation selector (B) in the OFF (center) position.
- Open or close the chuck jaws to a point where the opening is slightly larger than the shank of the bit you intend to use.
- Insert the bit.
- Tighten the chuck jaws securely on the bit.

**NOTICE:** Rotate the chuck body in the direction of the arrow marked GRIP to close the chuck jaws. Do not use a wrench to tighten or loosen the chuck jaws.

**! WARNING:** Make sure to insert the drill bit straight into the chuck jaws. Do not insert the drill bit into the chuck jaws at an angle and then tighten the chuck as shown in **Fig. 11a**. This could cause the drill bit to be thrown from the drill/driver, resulting in possibly serious personal injury or damage to the chuck.



## OPERATING INSTRUCTIONS

### 12. Removing Bits

- Lock the trigger switch by placing the direction-of-rotation selector (B) in the OFF (center) position.
- Open the chuck jaws.

**NOTICE:** Rotate the chuck body in the reverse direction to loosen the chuck jaws. Do not use a wrench to tighten or loosen the chuck jaws.

- Remove the drill bit.

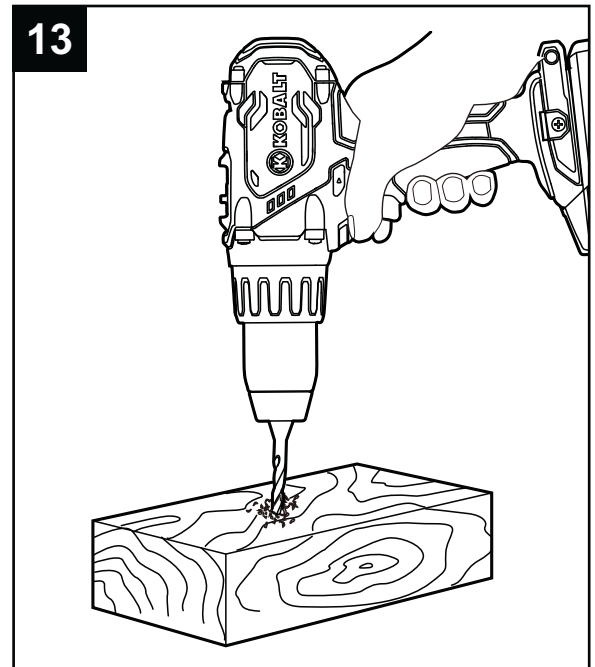
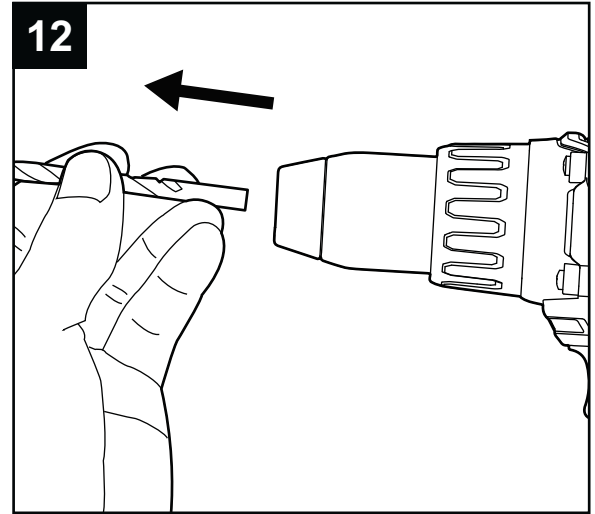
**! WARNING:** Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

**! WARNING:** Battery tools are always in operating condition. Therefore, the direction-of-rotation selector should always be locked (center) when not in use or carrying the drill at your side.

### 13. Drilling

- Check the direction-of-rotation selector for the correct setting (forward or reverse).
- Secure the material to be drilled in a vise or with clamps to keep it from turning as the drill bit rotates.
- Hold the drill/driver firmly and place the bit at the point to be drilled.
- Depress the trigger switch to start the drill/driver.
- Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force the drill/driver or apply side pressure to elongate a hole. Let the tool do the work.
- When drilling hard, smooth surfaces, use a center punch to mark the desired location of the hole. This will prevent the drill bit from slipping off center as the hole is started.
- If the bit jams in the workpiece or if the drill/driver stalls, stop the tool immediately. Remove the bit from the workpiece and determine the reason for jamming.
- To stop the drill/driver, release the trigger switch and allow the tool to come to a complete stop. The electric brake quickly stops the rotation. This feature engages automatically when you release the trigger switch.

**NOTICE:** This drill/driver is equipped with an electric brake. When the brake is functioning properly, sparks may be visible through the vent slots in the housing. This is normal and is the action of the brake.



## OPERATING INSTRUCTIONS

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### Wood Drilling

- a. For maximum performance, use high-speed steel or brad-point bits for drilling wood.
- b. Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- c. Increase speed as the drill bit bites into the material.
- d. When drilling “through” holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.

### Metal Drilling

- a. For maximum performance, use high-speed steel bits for drilling metal or steel.
- b. When drilling metals, use light oil on the drill bit to keep it from overheating. The oil will prolong the life of the bit and increase the drilling action.
- c. Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- d. Maintain a speed and pressure which will allow cutting without overheating the bit. Applying too much pressure will:
  - Overheat the drill/driver.
  - Wear the bearings.
  - Bend or burn bits.
  - Produce off-center or irregular-shaped holes.

### Masonry Drilling

- a. For maximum performance, use carbide-tipped masonry bits when drilling holes in brick, tile, concrete, etc.
- b. Maintain a speed and pressure which will allow cutting without overheating the bit or drill/driver. Applying too much pressure will:
  - Overheat the drill/driver.
  - Wear the bearings.
  - Bend or burn bits.
  - Produce off-center or irregular-shaped holes.
- c. Apply light pressure and medium speed for best results in brick.
- d. Apply additional pressure for hard materials, such as concrete.
- e. When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure.
- f. Begin drilling at a very low speed to prevent the bit from slipping off the starting point.

## OPERATING INSTRUCTIONS

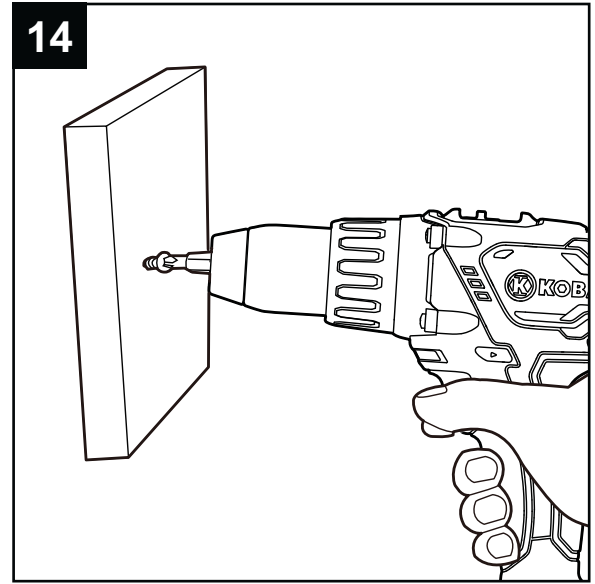
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### 14. Screw Driving

Try to use modern screws for easy driving and improved grip.

- a. Install the correct driver bit.
- b. Ensure that the torque-setting ring is set to the most suitable setting. If in doubt, start with a low setting and gradually increase the setting until the most suitable position is found. Do not change the torque setting when the tool is running.
- c. Use the correct speed for the job and apply minimal pressure to the trigger initially. Increase the speed only when full control can be maintained.
- d. It is advisable to drill a pilot hole first: slightly longer than the screw to be driven and just smaller than the shank diameter of the screw. The pilot hole will act as a guide for the screw and will also make tightening the screw less difficult. When screws are positioned close to an edge of the material, a pilot hole will also help to prevent splitting of the wood.
- e. Use a countersinking bit (available separately) to accommodate the screw head, so that it does not protrude from the surface.
- f. If the screw becomes difficult to drive home, remove the screw and try a slightly larger or longer pilot hole, but remember that there must be enough remaining material for the screw to grip! If restarting a screw in a hole, make the first few turns by hand. If the screw is still difficult to drive (as when using very hard woods) try using a lubricant such as soap; liquid soap is usually best.
- g. Keep sufficient pressure on the drill to prevent the bit turning out of the screw head. The screw head can easily become damaged, making it difficult to drive it home or remove it.
- h. To stop the drill/driver, release the trigger switch and allow the tool to come to a complete stop. The electric brake quickly stops the rotation. This feature engages automatically when you release the trigger switch.

**NOTICE:** This drill/driver is equipped with an electric brake. When the brake is functioning properly, sparks may be visible through the vent slots in the housing. This is normal and is the action of the brake.





## CARE AND MAINTENANCE

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### General Maintenance

**!** All repairs should be carried out only by an authorized service organization.

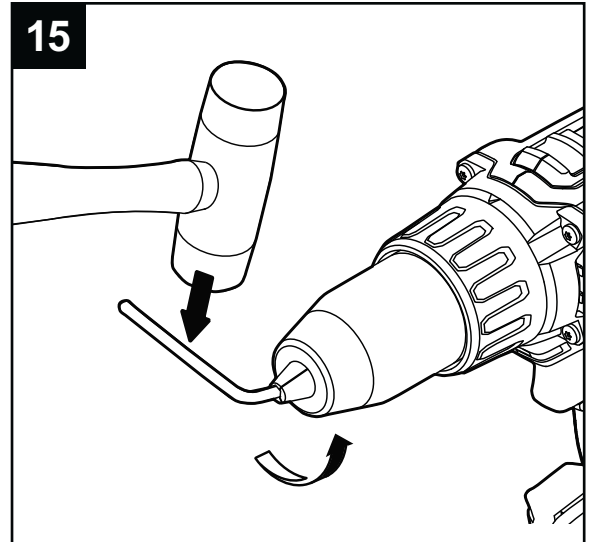
**!** Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper operation, always keep the tool and its ventilation slots clean. Always use only a soft, dry cloth to clean your drill/driver; never use detergent or alcohol.

### 15. Chuck Removal

The chuck can be removed and replaced.


- Lock the trigger switch by placing the direction-of-rotation selector in the center position.
- Open the chuck jaws.
- Use a screwdriver to remove the chuck screw by turning it in a clockwise direction.
- Insert a 5/16-in. or larger hex key into the chuck of the drill/driver and securely tighten the chuck jaws around the hex key.
- Tap the hex key sharply with a mallet in a counter-clockwise direction. This will loosen the chuck for easy removal.

**NOTICE:** The chuck screw has left handed threads. Attach a new chuck to the spindle and tighten the chuck screw.



## TROUBLESHOOTING

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 **WARNING:** Turn the switch to the “OFF” position and remove the battery pack from the tool before performing troubleshooting procedures.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The drill/driver does not work	Battery is depleted	Charge the battery
Bit cannot be installed	Sleeve is not released	Release the sleeve
	Bit does not fit the sleeve	Use the appropriate bit
Motor overheating	Cooling vents are obstructed	Clean, clear vents. Do not cover vents with hand during operation

## 5-YEAR HASSLE-FREE WARRANTY

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This drill/driver is warranted to the original purchaser from the original purchase date for five (5) years subject to the warranty coverage described herein.

This drill/driver is warranted for the original user to be free from defects in material and workmanship.

If you believe that the drill/driver is defective at any time during the specified warranty period, simply return the drill/driver along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT (1-888-356-2258) for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty excludes blades, bits, bulbs and accessories.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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koballtools.com  **KOBALT**





ITEM #0437516

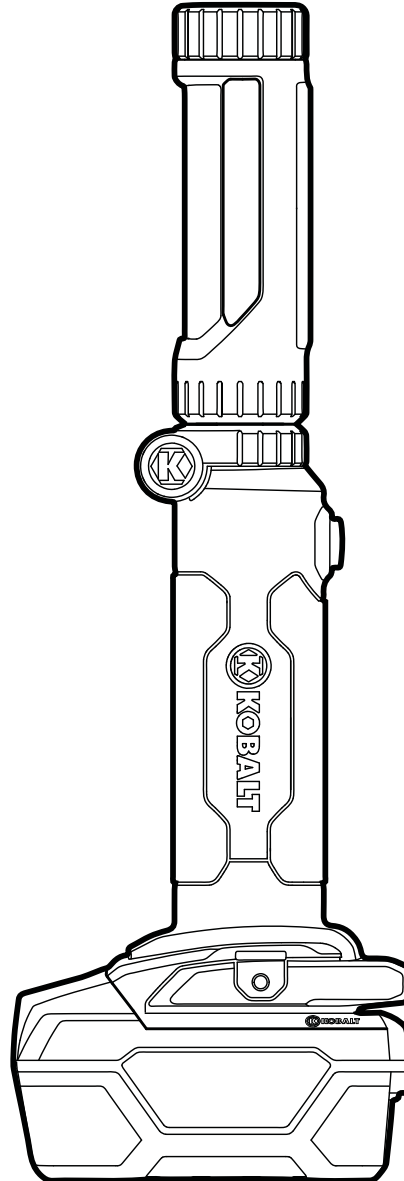
# 20-VOLT LITHIUM-ION LED WORKLIGHT

MODEL #K20LL-26A

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## ATTACH YOUR RECEIPT HERE

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-800-356-2258), 8 a.m.-8 p.m., EST, Monday - Friday.



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## PRODUCT SPECIFICATIONS

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COMPONENT	SPECIFICATIONS
Rated voltage	20V D/C
Illumination source	24 light emitting diodes (LEDs)
Head pivot	180°
Head rotates	270°
Run-time	> 12.5 hours

## SAFETY INFORMATION

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### KNOW THE TOOL

To operate this tool, carefully read this manual and all labels affixed to the worklight before using it. Keep this manual available for future reference.

### IMPORTANT

This tool should only be serviced by a qualified service technician.

### Read All Instructions Thoroughly

#### General Safety Rules for All Power Tools

 **WARNING: Read all safety warnings and all instructions.** Failure to follow all 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.

#### Work Area Safety

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **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.



## SAFETY INFORMATION

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### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust-extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power Tool Use and Care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, 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.



## SAFETY INFORMATION

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### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When a battery pack is not in use, keep it away from other metal objects, such as 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.
- **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.

### Service

- **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 for Worklight

- **Know your worklight. Read the operator's manual carefully. Learn the applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire or serious injury.
- **Do not permit children to use the worklight; it is not a toy**



**CAUTION! Hot Surface.**

**Risk of Burns - Do Not Touch.**

**Risk of Fire - Keep Away From Combustible Materials.**

## IMPORTANT SAFETY INSTRUCTIONS

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**WARNING** – When using electric appliances, basic precautions should always be followed, including the following:

- Read all the instructions before using the appliance.
- To reduce the risk of injury, close supervision is necessary when an appliance is used near children.
- Do not use outdoors.
- To reduce the risk of electrical shock, do not put worklight and battery pack in water or other liquid. Do not place or store appliance where it can fall or be pulled into a tub or sink.
- For use only with battery pack model K20-LB20A or K20-LB40A.
- Use only the charger supplied by the manufacturer to recharge.

**Save These Instructions**

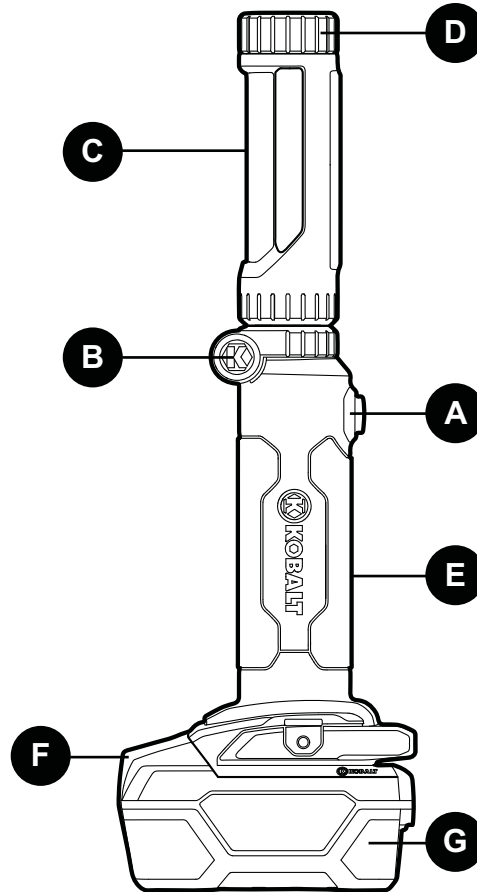


## PREPARATION

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### Know Your Worklight

Before attempting to use the worklight, familiarize yourself with all of its operating features and safety requirements.



PART	DESCRIPTION
A	On/Off Switch
B	Center pivot
C	LED
D	End cap
E	Handle
F	Battery-release button
G	Battery pack (1)

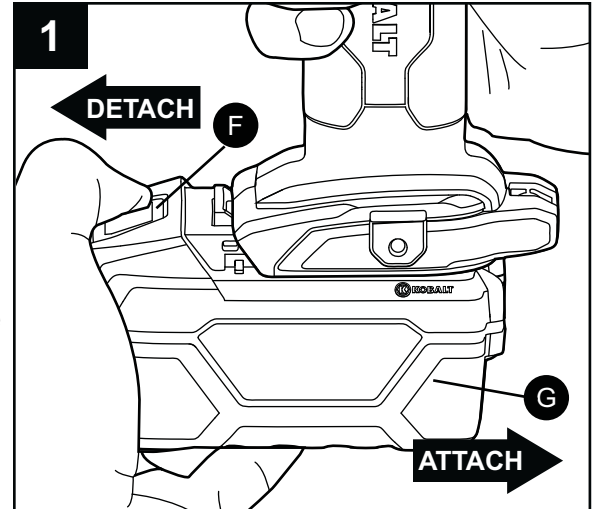
**⚠ WARNING:** Do not allow familiarity with the worklight to cause carelessness. Remember that one careless moment is enough to cause severe injury. Before attempting to use any tool, be sure to become familiar with all of the operating features and safety instructions.

## OPERATING INSTRUCTIONS

### 1. To Attach Battery Pack

- Align the raised portion on the battery pack (G) with the grooves on the bottom of the worklight, and then slide the battery pack onto the worklight as shown.
- Make sure that the latch on the battery pack snaps into place and the battery pack is secured to the worklight before beginning operation.

**NOTICE:** When placing the battery pack on the tool, be sure that the raised rib on battery pack aligns with the groove on the worklight and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.



### To Detach Battery Pack (Fig. 1)

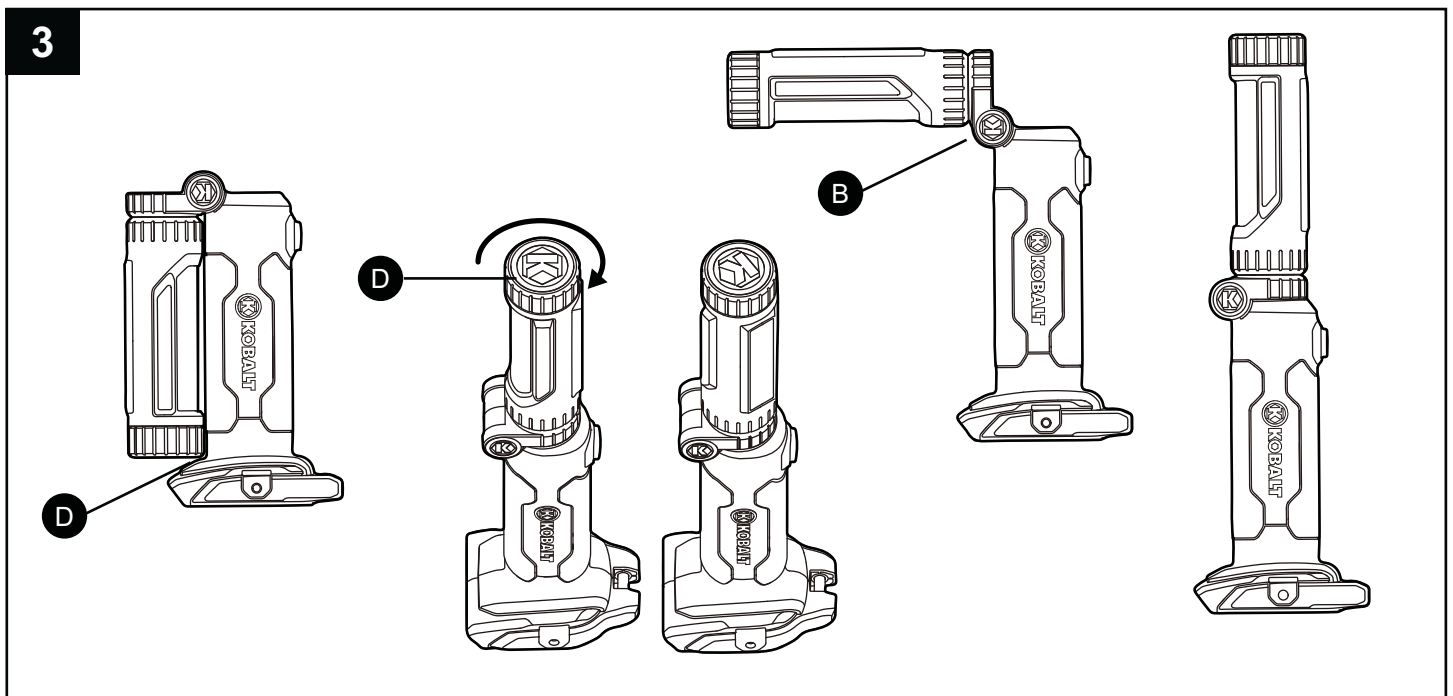
- Press the battery-release button (F) to release the battery pack.
- Pull forward on the battery pack to remove it from the worklight.

### 2. Turn On/Off the Worklight

Depress the on/off switch (A) to turn the worklight ON; depress the switch again to turn the worklight OFF.

### 3. Adjusting the Worklight Handle and Head

- The worklight pivots from fully upright to fully folded, and can be set at any point within that 180° range.
- Use the end cap (D) on the LED lamp head to rotate the lamp 270° and stop it at any point.




## CARE AND MAINTENANCE

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 All maintenance should only be carried out by an authorized service organization.

### Cleaning

 Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper working, always keep the tool and its ventilation slots clean. Always use only a soft, dry cloth to clean your worklight, never use any detergent or alcohol.

## TROUBLESHOOTING

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 **WARNING:** Turn the switch to the “OFF” position and remove the battery pack from the tool before performing troubleshooting procedures.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The worklight does not illuminate	1. Battery is depleted	1. Charge the battery
	2. The light is broken	2. Return it to the service center

## 5-YEAR HASSLE-FREE WARRANTY

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This worklight is warranted to the original purchaser from the original purchase date for five (5) years subject to the warranty coverage described herein.

This worklight is warranted for the original user to be free from defects in material and workmanship.

If you believe that the worklight is defective at any time during the specified warranty period, simply return the worklight along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT (1-888-356-2258) for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty excludes blades, bits, bulbs and accessories.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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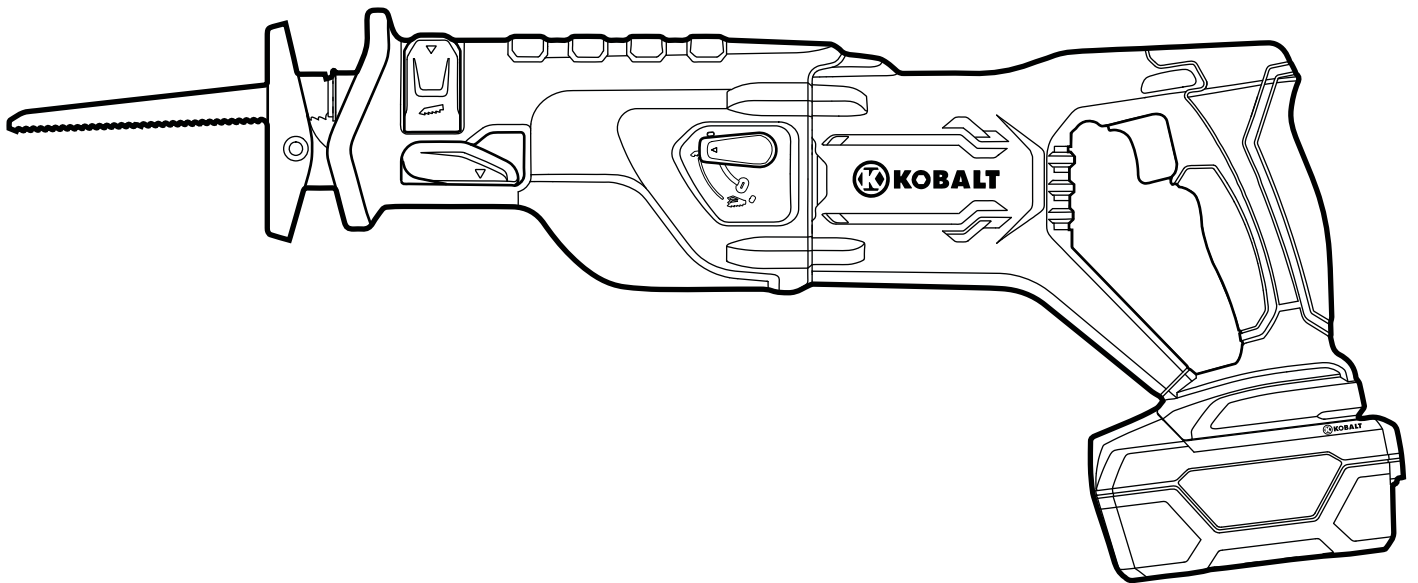
# 20-VOLT RECIPROCATING SAW

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## PRODUCT SPECIFICATIONS

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COMPONENT	SPECIFICATIONS
Rated voltage	20V D/C
No-load speed	0-3,100 SPM
Blade stroke	1-1/8 in. (28.6 mm)



## SAFETY INFORMATION

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### Know the Tool

To operate this tool, carefully read this manual and all labels affixed to the reciprocating saw before using it. Keep this manual available for future reference.

### Important

This tool should be serviced only by a qualified service technician.

### Read All Instructions Thoroughly

### General Safety Rules for All Power Tools



**WARNING:** Read all safety warnings and all instructions. Failure to follow all 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.

### Work Area Safety

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **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.



## SAFETY INFORMATION

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### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust-extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power Tool Use and Care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, 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.



## SAFETY INFORMATION

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### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When a battery pack is not in use, keep it away from other metal objects, such as 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.
- **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.

### Service

- **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 for Reciprocating Saws

- **Hold a power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** A 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 support and secure the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- **Always remove the battery pack before changing the saw blade and/or adjusting the saw base.**
- **The saw blade must be securely locked in its holder.** Check that it has been securely seated before use.
- **Make certain that all adjusting levers and the blade holder are tight before making a cut.** Loose adjusting levers and holders can cause the tool or blade to slip; loss of control may result.
- **Check that the switch is “off” before attaching a battery pack.** Accidental starting could cause injury.
- **Secure material before cutting.** Never hold the workpiece in your hand or across your legs. Small or thin material may flex or vibrate with the blade, causing loss of control.
- **Never touch the saw blade after immediate use.** It may be hot after prolonged use.
- **Always wear safety goggles or eye protection when using this tool.** Use a dust mask or respirator or connect the tool to an external dust vacuum if cutting generates a great amount of dust.
- **Keep hands away from cutting area.** Do not reach under the material being cut. The proximity of the blade to your hand is hidden from your sight.
- **Do not use dull or damaged saw blades and accessories.**





## SAFETY INFORMATION

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**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, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

**Your risk from these exposures varies, depending upon how often you do this type of work.**

**To reduce your exposure to these chemicals:**

- Work in a well-ventilated area.
- 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 or eyes or to lie on the skin may promote absorption of harmful chemicals.**

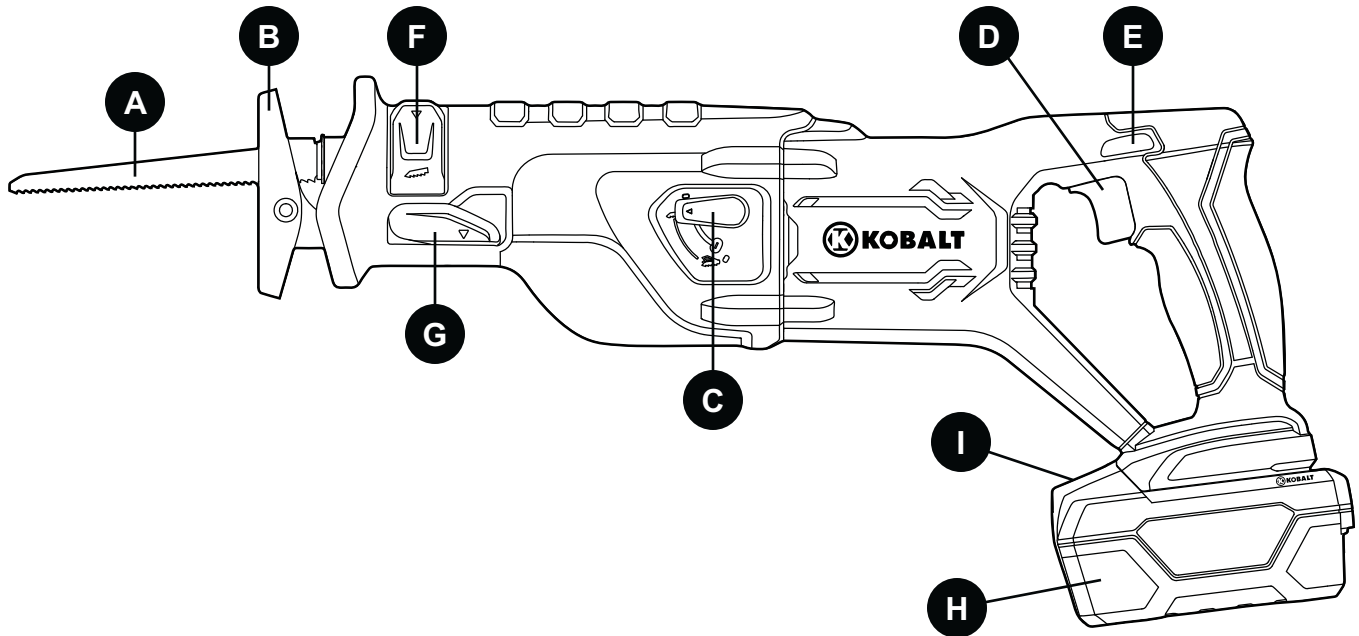
## PREPARATION

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### **Know Your Reciprocating Saw**

Before attempting to use the reciprocating saw, familiarize yourself with all of its operating features and safety requirements.

## PACKAGE CONTENTS



PARTS	DESCRIPTION
A	Saw blade
B	Pivoting shoe
C	Orbital-function lever
D	Trigger switch
E	Lock-off button
F	Blade-clamp lever
G	Shoe-release lever
H	Battery pack
I	Battery-release button

**WARNING:** Do not allow familiarity with the saw to cause carelessness. Remember that one careless moment is enough to cause severe injury. Before attempting to use any tool, be sure to become familiar with all of the operating features and safety instructions.

**WARNING:** Remove the tool from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.

**WARNING:** If any part of the tool is missing or damaged, do not plug the tool in or use it until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.

**WARNING:** Your saw should never be connected to the power source when you are assembling parts, making adjustments, installing or removing blades, cleaning, or when it is not in use. Disconnecting the reciprocating saw will prevent accidental starting, which could cause serious personal injury.

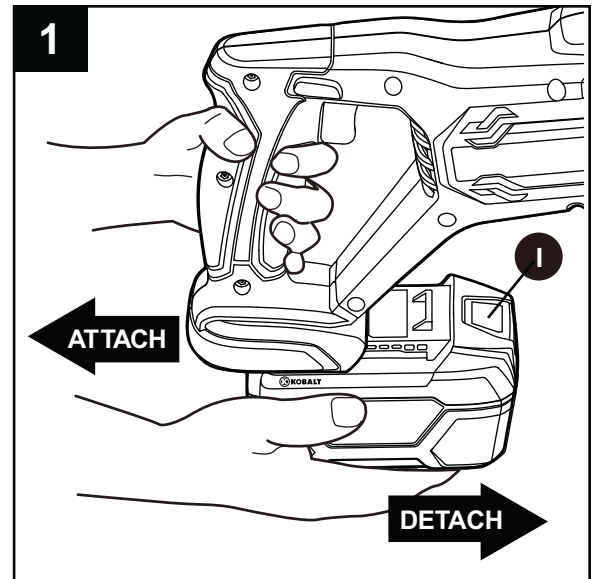
## OPERATING INSTRUCTIONS

### 1. To Attach Battery Pack

- Ensure that the trigger switch is in the “off” position.
- Align the raised rib on the battery pack with the grooves on the bottom of the saw, and then attach the battery pack to the saw.

**NOTICE:** Make sure that the latch on the battery pack snaps into place and the battery pack is secured to the tool before beginning operation.

**CAUTION:** When placing the battery pack on the tool, be sure that the raised rib on the battery pack aligns with the groove on the saw and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.



### To Detach Battery Pack (Fig. 1)

- Ensure that the trigger switch is in the “off” position.
- Depress the battery-release button (I) located on the front of the battery pack to release the battery pack.
- Pull the battery forward to remove from the tool.

### Blade Selection

To obtain the best performance from the saw, it is important to select the correct blade for the particular application and type of material to be cut.

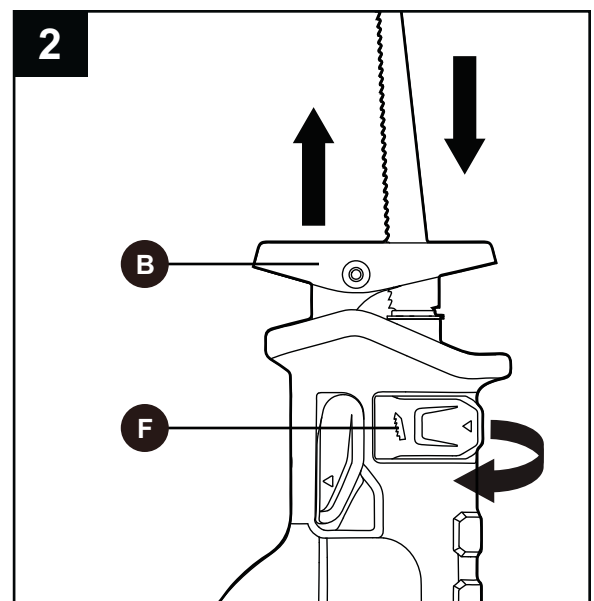
Blades with fewer teeth, e.g., 10 teeth per inch (TPI) are typically used for cutting wood; blades with more teeth are better for cutting metal or plastic. We recommend 14 TPI blades for plastics and soft metals and 18 TPI blades for hard metals.

### 2. Installing a Saw Blade

- Remove the battery pack from the saw.
- Pivot the blade-clamp lever (F) to open the blade clamp.
- Insert the saw blade into the blade clamp as far as possible, and release the blade-clamp lever to lock the blade in position.
- Check that the blade is securely attached.

### Removing the Saw Blade (Fig. 2)

- Remove the battery pack from the saw.
- Pivot the blade-clamp lever (F) to open the blade clamp.
- Remove the saw blade from the blade clamp.

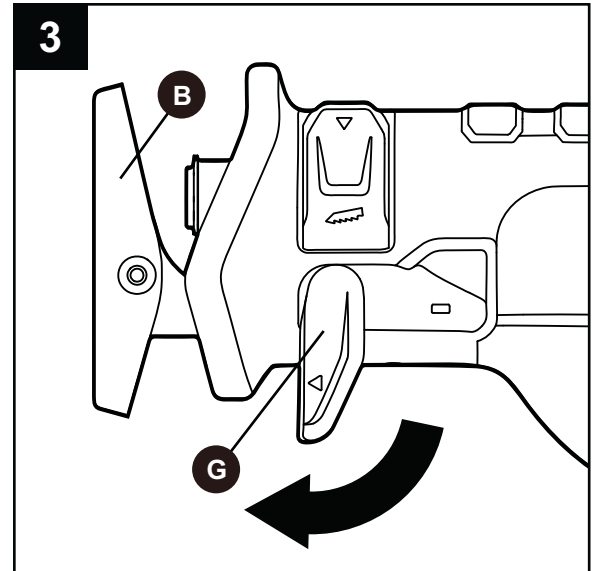


## OPERATING INSTRUCTIONS

### 3. Base Shoe Adjustment

For maximum control and longer blade life, the base assembly slides in or out to adjust the effective stroke length.

- Remove the battery pack from the saw.
- Open and hold the shoe-release lever (G), then slide the shoe (B) to the desired position. The shoe can be locked in any position.
- Release the lever to lock the shoe in position.

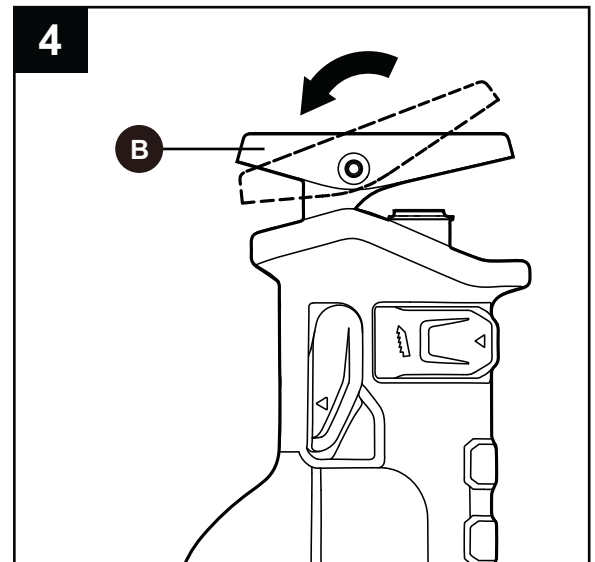


### 4. Pivoting the Shoe

The shoe pivots to provide maximum contact with the surface being cut.

- Remove the battery pack from the saw. Hold the saw securely, and then pivot the shoe to the desired angle.

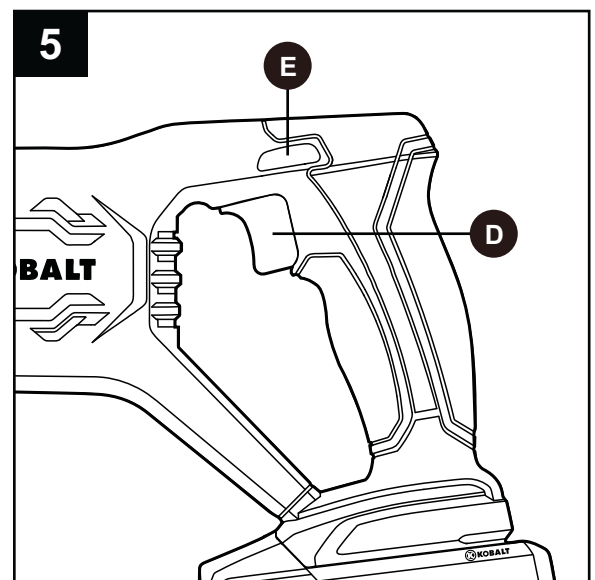
**! WARNING:** To avoid injury and damage, do not operate the saw without the pivoting shoe in place. The spindle may strike against the workpiece and damage the reciprocating mechanism.



### 5. Variable-Speed Trigger Switch

Your reciprocating saw is equipped with a trigger switch to turn the saw on and off, and to control the speed.


- To start the saw, depress the lock-off button (E) and then squeeze the trigger switch (D).
- To stop the saw, release the trigger switch and allow it to return to the "OFF" position.
- To vary the speed, simply increase or decrease the pressure on the trigger switch. The more tightly the trigger switch is squeezed, the higher the speed.



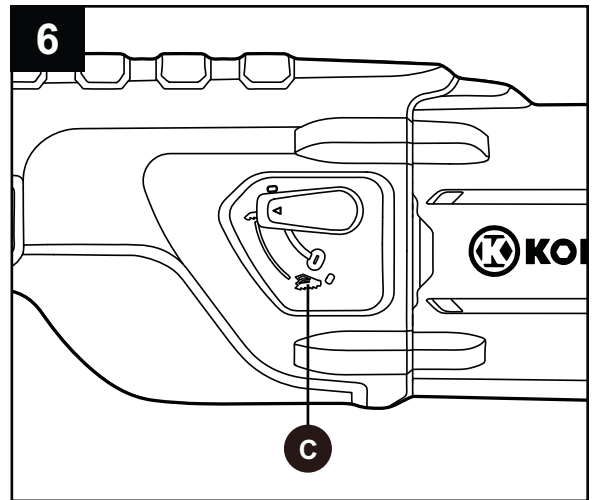
## OPERATING INSTRUCTIONS

### 6. Orbital Function Lever

This reciprocating saw has the option of orbital action to make the blade swing slightly as it cuts. Orbital action is effective only when the saw blade teeth face down.

- Remove the battery pack from tool.
- Turn the lever (C) to the “” position for orbital cutting action.

Orbital action increases the speed of cut, but may result in a rougher finish to the cut in some materials. Experiment on a piece of scrap material in order to determine the optimum pendulum action setting.

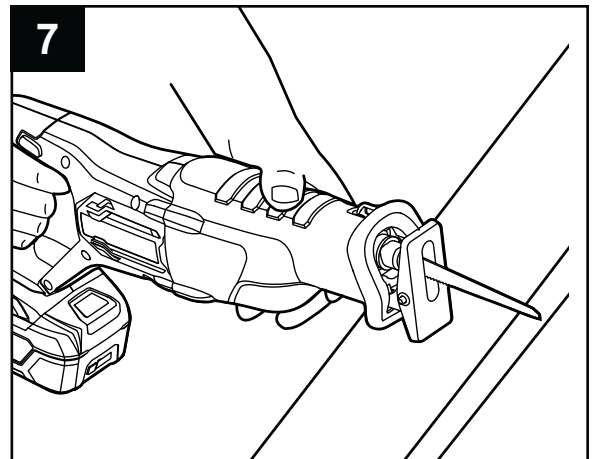


### 7. General Cutting

**WARNING:** Before attaching the battery pack to the tool, always check to determine that the switch performs properly and returns to the “OFF” position when released.

**WARNING:** Hold the tool only by the plastic handle and the insulated grip area to help prevent electrical shock. You may encounter electrical wiring when sawing into walls or floors. Sawing into a “live” wire will cause electric shock.

- Remove the battery pack from the saw.
- Make sure that the workpiece is firmly clamped in place.
- Use the appropriate type and size of blade for the workpiece material and size.
- Adjust the pivoting shoe as necessary to make sure that the blade will extend beyond the shoe and the workpiece at all times.
- Adjust the pivoting shoe as necessary to expose unworn blade teeth for longer blade life.
- Check for clearance behind the workpiece so that the blade will not impact another surface.
- Mark the line of cut clearly. If cutting metal, apply cutting oil to the line.
- Attach the battery pack to the saw.
- Hold the saw firmly with both hands. Make sure to keep your hands on the insulated gripping areas only.
- Depress the lock-off button and trigger switch to start the saw and bring it to the maximum desired cutting speed before applying the blade to the workpiece.
- Place the shoe firmly on the workpiece while cutting. Use only enough steady pressure on the blade to keep the saw cutting; do not force the tool.
- Reduce pressure as the blade comes to the end of the cut.
- Allow the saw to come to a complete stop before removing the blade from the workpiece.
- Sawing fiberglass, plaster, wallboard, or spackling compound, clean the motor vents frequently with a vacuum or compressed air. These materials are highly abrasive and may accelerate the wear on motor bearings and brushes.



## OPERATING INSTRUCTIONS

**⚠ WARNING:** Do not allow familiarity with the saw to make you careless. One careless fraction of a second is enough to inflict serious injury.

**NOTICE:** Cutting speeds should vary with the workpiece. Hard materials, such as metals, require lower speeds; for softer materials use higher speeds.

### 8. Plunge Cutting

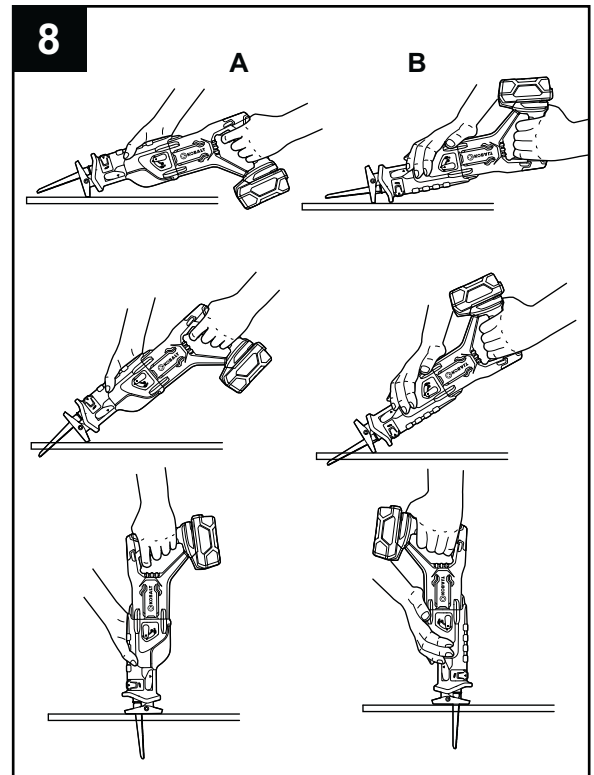
Your reciprocating saw is ideal for plunge cutting directly into surfaces that cannot be cut from an edge, such as walls or floors. Plunge cutting may be performed two ways, depending on how the blade is inserted.

Column A shows how to plunge cut with the teeth of the blade facing down. Column B shows how to plunge cut with the teeth of the blade facing up.

**⚠ WARNING:** Do not plunge cut into metal surfaces.


- Remove the battery pack from the saw.
- Make sure that the workpiece is firmly clamped in place.
- Use the appropriate type and size of blade for the workpiece material and size.
- Insert the blade into the tool.
- Adjust the pivoting shoe as necessary to make sure that the blade will extend beyond the shoe and the workpiece at all times.
- Adjust the pivoting shoe as necessary to expose unworn blade teeth for longer blade life.
- Check for clearance behind the workpiece so that the blade will not impact another surface.
- Attach the battery pack to the saw.
- If the blade is inserted with the teeth facing downward, hold the tool as shown in Column A, resting the edge of the shoe on the workpiece.
- With the blade just above the workpiece, depress the lock-off button and trigger switch to start the saw and bring it to the maximum desired cutting speed. Then, using the edge of the shoe as a pivot, lower the blade into the workpiece.
- As the blade starts cutting, raise the handle of the tool slowly, until the shoe rests firmly on the workpiece.
- After the blade has penetrated through the workpiece, continue sawing along the marked cutting line.


**NOTICE:** To make plunge cutting easier, use a heavy gauge blade and install the blade with the teeth facing upward as show in Column B.



## OPERATING INSTRUCTIONS

---

 **WARNING:** To reduce the risk of explosion, electric shock and property damage, always check the work area for hidden gas pipes, electrical wires or water pipes when making blind or plunge cuts.


 **WARNING:** To avoid loss of control and serious injury, make sure that the blade reaches maximum speed before touching it to the workpiece.

 **WARNING:** Do not make plunge cuts in metal materials.

### Metal Cutting

The saw can be used to cut metals, such as sheet steel, pipe, steel rods, aluminum, brass, and copper. Be careful not to twist or bend the saw blade. Do not force the tool.

The use of cutting oil is recommended when cutting soft metals and steel. Cutting oil will keep the blade cool, increase cutting action, and prolong blade life.

 **WARNING:** Never use gasoline, because normal sparking could ignite the fumes.

- a. Securely clamp the workpiece in position, and make the cut close to the clamping point to minimize vibration.
- b. When cutting conduit pipe or angle iron, clamp the work in a vise, if possible, and cut close to the vise.
- c. To cut thin sheet material, “sandwich” the material between pieces of hardboard or plywood, and clamp the layers together to reduce vibration and tearing of the material.

## CARE AND MAINTENANCE

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All maintenance should only be carried out by an authorized service organization.

### Cleaning

Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper operation, always keep the tool and its ventilation slots clean.

Always use only a soft, dry cloth to clean your reciprocating saw; never use detergent or alcohol.

## TROUBLESHOOTING

---

 **WARNING:** Turn the switch to the “OFF” position and remove the battery pack before performing troubleshooting procedures.

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
Motor does not start	1. Battery pack has been depleted	1. Charge the battery pack
Blade binds, jams, or burns the wood	1. Improper operation 2. Dull blade 3. Improper blade 4. Warped blade	1. See “OPERATING INSTRUCTIONS” section 2. Replace or sharpen blade 3. Replace blade 4. Replace blade
Saw vibrates or shakes	1. Damaged blade 2. Loose blade	1. Replace blade 2. Remove the blade and reinstall it

## 5-YEAR HASSLE-FREE WARRANTY

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This reciprocating saw is warranted to the original purchaser from the original purchase date for five (5) years subject to the warranty coverage described herein.

This reciprocating saw is warranted for the original user to be free from defects in material and workmanship.

If you believe that the reciprocating saw is defective at any time during the specified warranty period, simply return the reciprocating saw along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT (1-888-356-2258) for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty excludes blades, bits, bulbs and accessories.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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ITEM #0437512

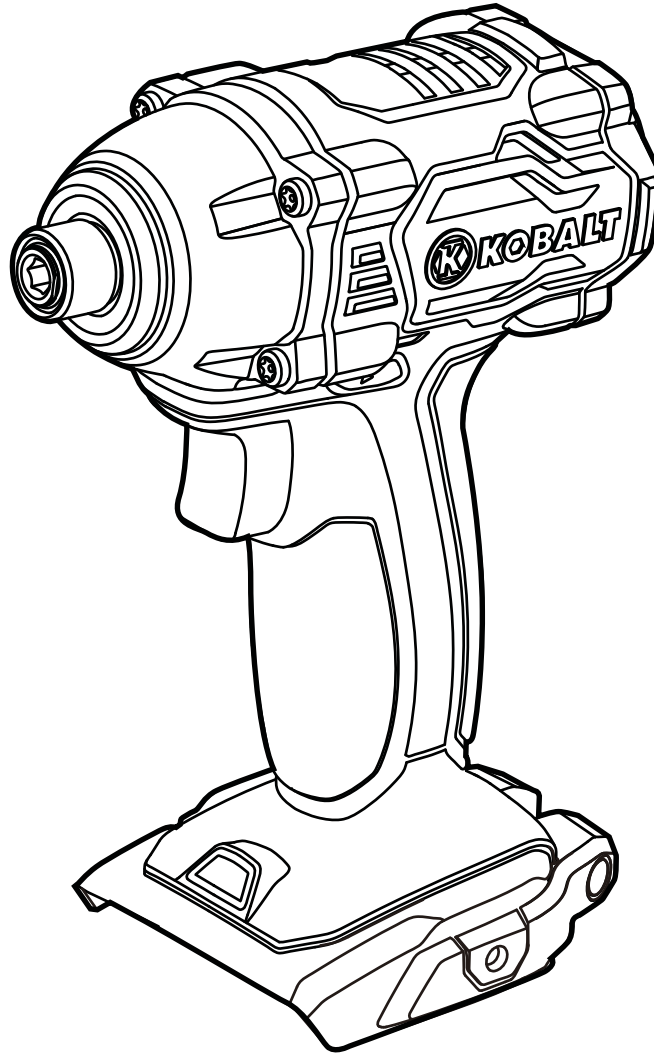
# 20-VOLT CORDLESS IMPACT DRIVER

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MODEL #K20ID-26A

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Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-800-356-2258), 8 a.m.-8 p.m., EST, Monday - Friday.

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## PRODUCT SPECIFICATIONS

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COMPONENT	SPECIFICATION
Motor	20 V DC
Switch	VSR (Variable Speed Reversible)
No-load speed	0-2,500 RPM
Impacts per minute	0-3,300 IPM
Maximum torque	1,550 in. lbs
Collet size	1/4 inch
Impact driver weight (without battery)	2 lbs. 5 oz.



## SAFETY INFORMATION

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Please read and understand this entire manual before attempting to assemble or operate this product. If you have any questions regarding the product, please call customer service at 1-888-3KOBALT, 8 a.m. - 8 p.m., EST, Monday - Friday.



### WARNING





- The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power-tool operation, always wear safety goggles or safety glasses with side shields and a full-face shield, when needed. We recommend using a wide vision safety mask over eyeglasses or standard safety glasses with shields. Always use eye protection marked to comply with ANSI Z87.1.
- 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, cement, and other masonry products.
  - Arsenic and chromium from chemically-treated lumber.
- Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:
  - Work in a well-ventilated area.
  - Work with approved safety equipment, such as 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 or eyes or to lie on the skin may promote absorption of harmful chemicals.

### Know the Tool

To operate this tool, carefully read this manual and all labels affixed to the driver before using it. Keep this manual available for future reference.


## SAFETY INFORMATION

Some of the following symbols may be used on this tool. Please study them and their meaning. Proper interpretation of these symbols will allow you to operate the tool better and more safely.

SYMBOL	DEFINITION	SYMBOL	DEFINITION
V	Volts		Direct Current
A	Amps	$n_o$	No-load Speed
Hz	Hertz		Class II Construction
W	Watts	/min	Revolutions or Strokes per Minute
	A danger, warning or caution. It means 'Attention! Your safety is involved.'		Alternating Current

**IMPORTANT:** This tool should only be serviced by a qualified service technician.

### General Safety Rules for All Power Tools

 **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.

### Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in explosive environments, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.



## SAFETY INFORMATION

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- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **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.

### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment, such as a dust mask, non-skid safety shoes, a hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a 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.
- **Remove any adjusting keys or wrenches 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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust-extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

### Power Tool Use and Care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, 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.



## SAFETY INFORMATION

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### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When a battery pack is not in use, keep it away from other metal objects such as 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.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, flush with water and seek medical help.** Liquid ejected from the battery may cause irritation or burns.

### Service

- **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 for the Cordless Impact Driver

- **Hold the power tool by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Secure the workpiece.** Clamping devices or a vise will hold the workpiece in place better and more safely than holding it by hand.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Before performing any kind of work on the machine (e.g., maintenance, tool change, etc.), as well as when transporting and storing it, always set the rotational direction switch to the center (locked) position.** Unintentional activation of the On/Off switch may result in personal injury.
- **Do not open the battery.** There is risk of a short circuit.
- **Protect the battery from heat and fire.** There is risk of explosion.
- **When working with the power tool, always hold it firmly with both hands and provide a secure stance.** The power tool is guided more securely with both hands.

## PREPARATION

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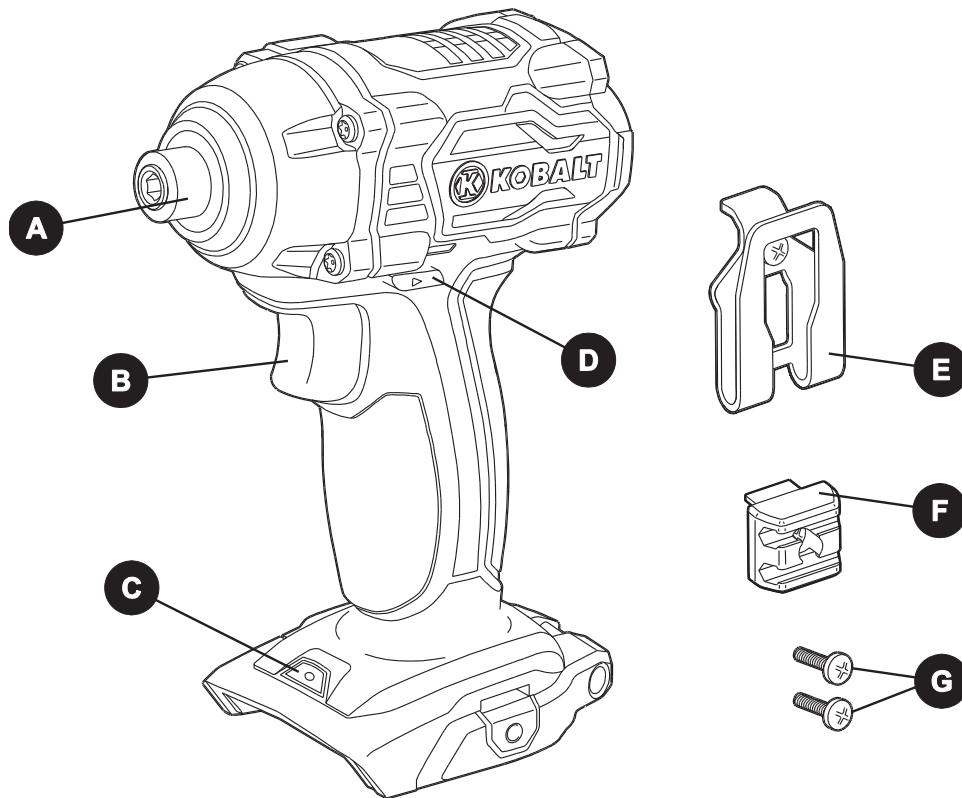
Before attempting to use the driver, familiarize yourself with all of its operating features and safety requirements.



**WARNING:** Always be careful, an injury can happen in a second.

Helpful Tools (not included): Phillips Screwdriver

## PACKAGE CONTENTS



PART	DESCRIPTION
A	Sleeve
B	Variable-speed trigger switch
C	LED work light
D	Direction-of-rotation selector
E	Belt clip (1)
F	Bit holder (1)
G	Screws (2)

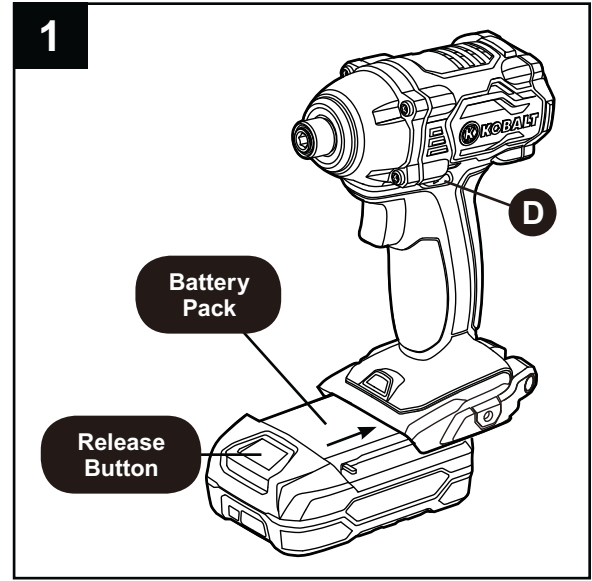


## OPERATING INSTRUCTIONS

### 1. Attaching the Battery Pack (sold separately)

**NOTICE:** This 20 V Impact Driver is compatible with Kobalt Compact Lithium-ion Battery (0352546), Kobalt Extended Run Lithium-ion Battery (0352548), Kobalt 18V NiCd Battery (0005667), Kobalt Compact Lithium-Ion Battery (0437530), and Kobalt Extended Run Lithium-Ion Battery (0437531).

- Place the direction-of-rotation selector (D) in the center (locked) position.
- Align the raised portion on the battery pack with the grooves on the bottom of the impact driver, then slide the battery pack onto the impact driver as shown.
- Ensure that the battery-release button on the battery pack snaps into place and the battery pack is secured to the impact driver before beginning operation.

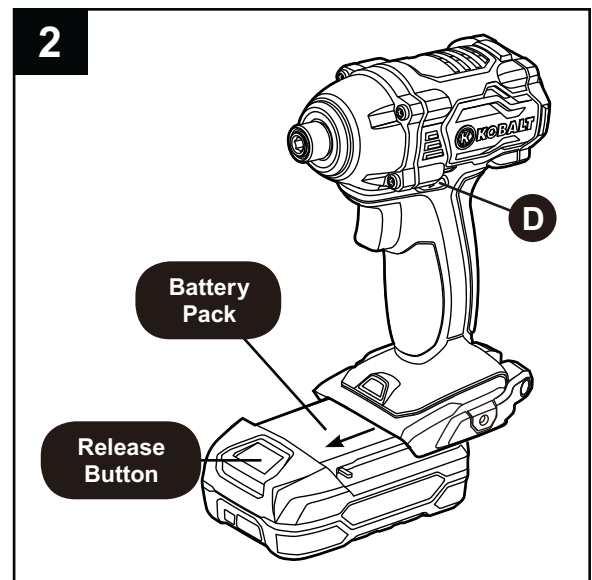


**NOTICE:** When placing the battery pack on the tool, be sure that the raised rib on the battery pack aligns with the groove on the impact driver and the latches snap into place properly. Improper assembly of the battery pack can cause damage to internal components.

### 2. Detaching the Battery Pack (sold separately)

- Place the direction-of-rotation selector (D) in the center (locked) position.
- Press the battery-release button to release the battery pack.
- Pull forward on the battery pack to remove it from the impact driver.

**! WARNING:** Battery tools are always in operating condition. Therefore, the direction-of-rotation selector should always be locked (center) when the tool is not in use or when carrying the tool at your side.

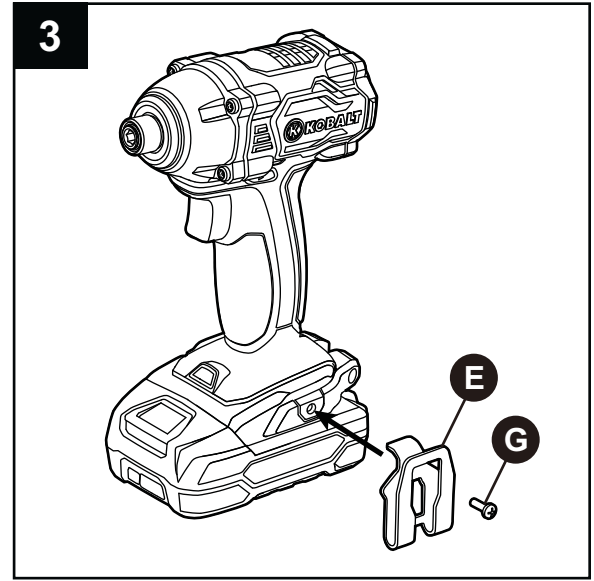


## OPERATING INSTRUCTIONS

### 3. Installing the Belt Clip

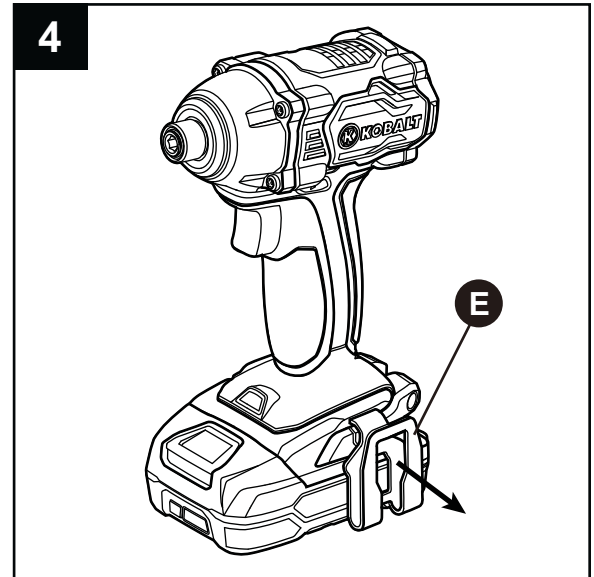
- Align the rib of the belt clip (E) with the hole on the base of the driver.
- Insert the screw (G) and tighten the screw securely with a Phillips screwdriver (not included).

**NOTICE:** The belt clip and drill bit holder are interchangeable between the left and right side of the driver.



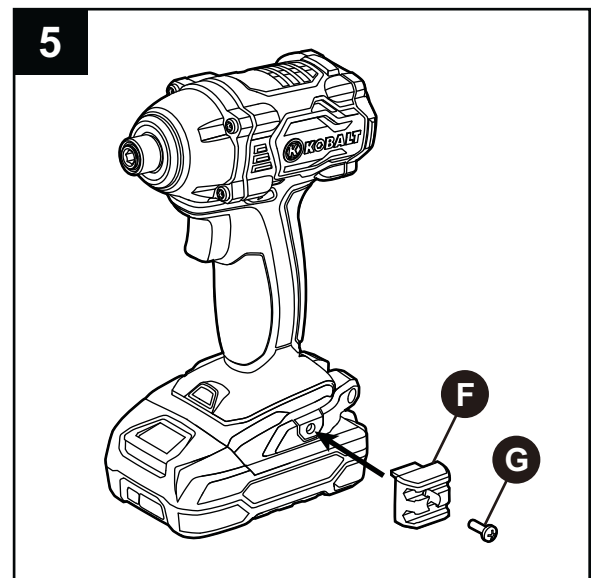
### 4. Removing the Belt Clip

- Use a Phillips screwdriver to loosen the screw holding the belt clip (E) to the driver.
- Remove the screw and the belt clip (E).



### 5. Installing the Bit Holder

- Align the rib of the bit holder (F) with the hole on the base of the impact driver.
- Insert the screw (G) and tighten the screw securely with a Phillips screwdriver (not included).

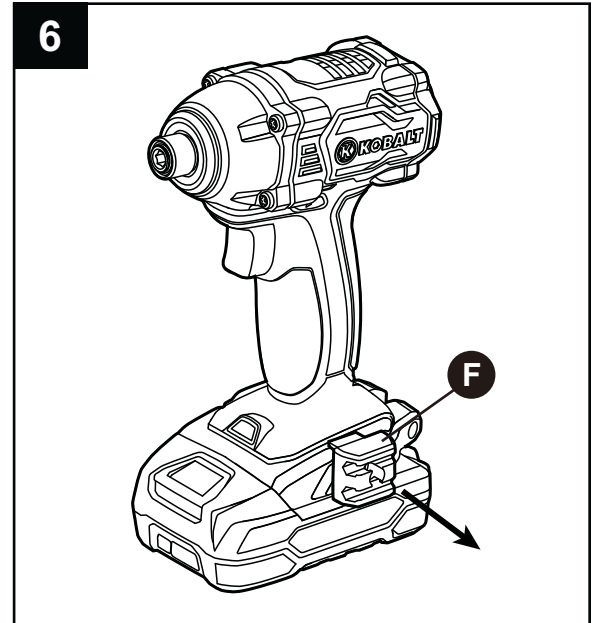


## OPERATING INSTRUCTIONS

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### 6. Removing the Bit Holder

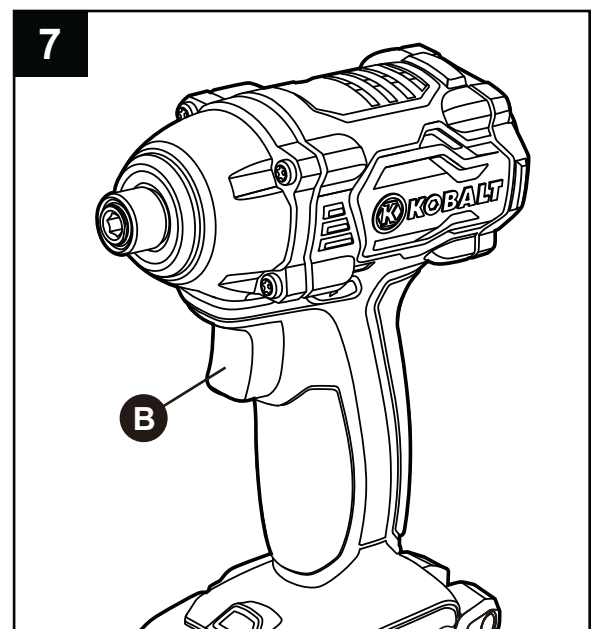
- a. Use a Phillips screwdriver to loosen the screw that attaches the bit holder (F) to the impact driver.
- b. Remove the screw and the bit holder (F).



### 7. Trigger Switch

- a. To turn the impact driver ON, depress the trigger switch (B).
- b. To turn it OFF, release the trigger switch.

**NOTICE:** The variable-speed trigger switch delivers higher speed with increased trigger pressure and lower speed with decreased trigger pressure.



## OPERATING INSTRUCTIONS

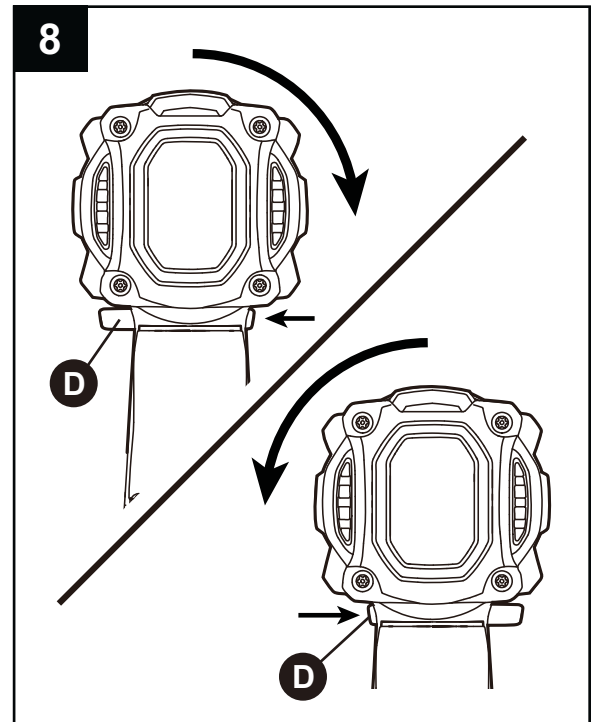
### 8. Direction-of-Rotation Selector (Forward/Center Lock/Reverse)

The direction of bit rotation is reversible and is controlled by a selector located above the trigger switch (B). With the impact driver held in the normal operating position, pointing away from you:

- Position the direction-of-rotation selector (D) to the left of the tool for forward rotation.
- Position the direction-of-rotation selector to the right of the tool for reverse rotation.
- Setting the switch in the OFF (center lock) position helps reduce the possibility of accidental start-up when not in use.

**NOTICE:** To prevent gear damage, always allow the impact driver to come to a complete stop before changing the direction of rotation.

**NOTICE:** The impact driver will not run unless the direction-of-rotation selector is engaged fully to the left or right.



### Electric Brake

To stop the impact driver, release the trigger switch (B) and allow the tool to come to a complete stop.

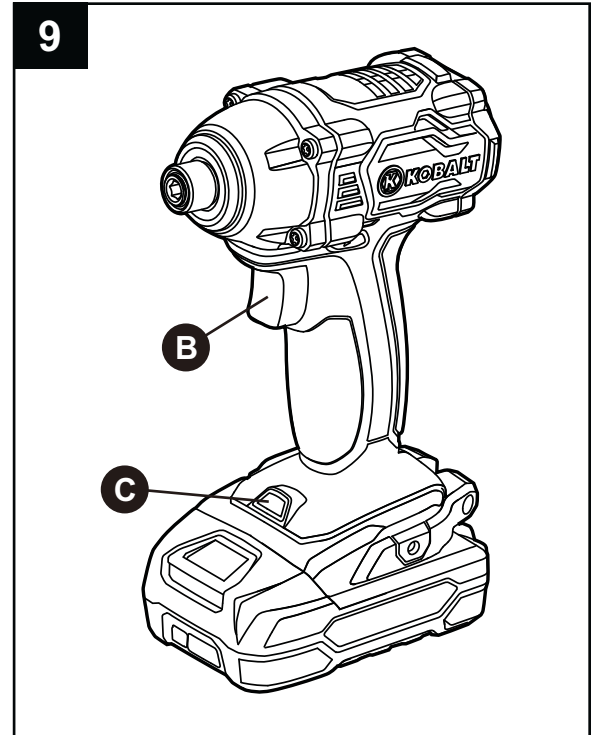
The electric brake quickly stops the rotation. This feature engages automatically when you release the trigger switch.

**NOTICE:** This impact driver is equipped with an electric brake. When the brake is functioning properly, sparks may be visible through the vent slots in the housing. This is normal and is the action of the brake.

## OPERATING INSTRUCTIONS

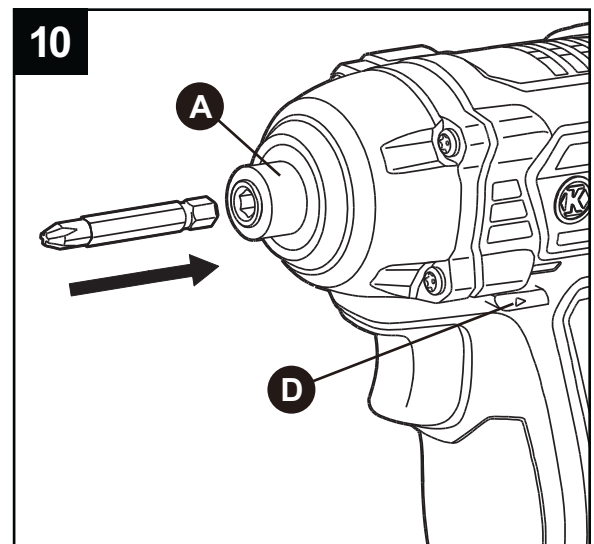
### 9. LED Worklight

- The LED worklight (C), located on the base of the impact driver, illuminates when you press the trigger switch (B). This provides additional light on the surface of the workpiece for operation in lower-light areas.
- The LED worklight (C) will turn off when the trigger switch is released.



### 10. Installing Bits

- Lock the trigger switch by placing the direction-of-rotation selector (D) in the OFF (center) position.
- With one hand, pull the sleeve (A) toward the front of the tool and hold it in place.
- With the other hand, insert a 1/4 in. bit into the hexagonal hole in the bit retainer.
- Release the sleeve (A) and check that it returns to its original position.



**WARNING:** If the sleeve does not return to its original position, the bit is not correctly installed. Retry until the bit is properly installed and the sleeve returns to its original position.

**WARNING:** Use protective gloves when removing the bit from the tool, or first allow the bit to cool down. The bit may be hot after prolonged use.

## OPERATING INSTRUCTIONS

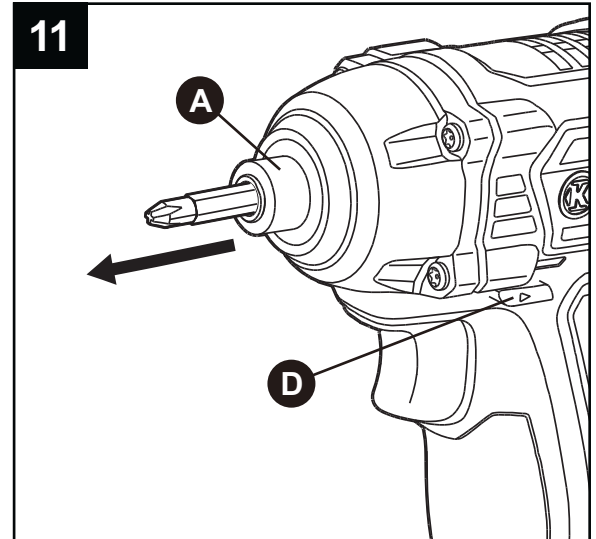
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### 11. Removing Bits

- a. Lock the trigger switch by placing the direction-of rotation selector (D) in the OFF (center) position.
- b. Pull the sleeve (A) towards the front of the tool and hold it in place.
- c. Remove the bit from the hexagonal hole in the bit retainer.
- d. Release the sleeve.

### Tightening and Loosening Screws and Nuts

- a. Install the correct bit.
- b. Apply just enough pressure to keep the bit engaged on the screw or nut.
- c. Apply minimal pressure to the trigger switch (A) initially. Increase the speed only when you can maintain full control.



**!** **WARNING:** Do not overtighten, as the force of the vimpact driver can break the fastener. Keep the Impact driver at a right angle to the fastener to avoid damaging the fastener head.

## CARE AND MAINTENANCE

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All maintenance should only be carried out by an authorized service organization.

### Cleaning

Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper working, always keep the tool and its ventilation slots clean. Always use only a soft, dry cloth to clean your impact driver. Never use any detergent or alcohol.

## TROUBLESHOOTING

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If you have any questions regarding this product, please call customer service at 1-888-3KOBALT, 8 a.m. - 8 p.m., EST, Monday - Friday.

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
The driver does not work.	The battery is depleted.	Charge the battery.
The bit cannot be installed.	1. The sleeve is not released. 2. The bit does not fit the sleeve.	1. Release the sleeve. 2. Use a suitable adapter.
The motor is overheating.	Be sure cooling vents are free of dust and obstacles.	Clean and clear the vents. Do not cover the vents with your hand during operation.

## 5-YEAR HASSLE-FREE WARRANTY

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This impact driver is warranted to the original purchaser from the original purchase date for five (5) years subject to the warranty coverage described herein.

This impact driver is warranted for the original user to be free from defects in material and workmanship.

If you believe that the impact driver is defective at any time during the specified warranty period, simply return the impact driver along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT (1-888-356-2258) for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty excludes belt clip and bulbs.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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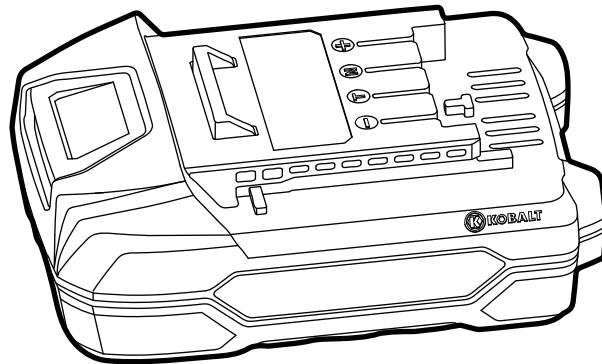


ITEM #0437530  
**20-VOLT COMPACT  
LITHIUM-ION BATTERY**  
MODEL #K20-LB20A

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**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-888-356-2258), 8 a.m. - 8 p.m., EST, Monday - Friday.

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## SPECIFICATIONS

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Component	Specifications
Model	K20-LB20A
Battery type	Lithium
Battery voltage	20V D/C
Battery charger model	K20-MC60A

## **SAFETY INFORMATION**

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Carefully read this manual and all labels affixed to the battery pack before using. Keep this manual available for future reference.

### **IMPORTANT**

This battery pack should only be serviced by a qualified service technician.

### **READ ALL INSTRUCTIONS THOROUGHLY**

#### **General Safety Rules for All Power Tools**

 **WARNING: Read all safety warnings and all instructions.** Failure to follow all 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.

#### **Work area safety**

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

## SAFETY INFORMATION

---

### Electrical Safety

- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When the battery pack is not in use, keep it away from other metal objects such as 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 may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, also seek medical help.** Liquid ejected from the battery may cause irritation or burns.

### Service

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

## SAFETY INFORMATION

---

### Specific Safety Rules for Battery Pack

- Use battery only with the charger listed.

Battery pack	Charger
K20-LB20A	K20-MC60A

- **Know your power tool. Read the operator's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Battery tools do not have to be plugged into an electrical outlet; they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.
- **Do not place battery tools or their batteries near fire or heat.** This will reduce the risk of explosion and possible injury.
- **Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow.** A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries vent hydrogen gas and can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.

## SAFETY INFORMATION

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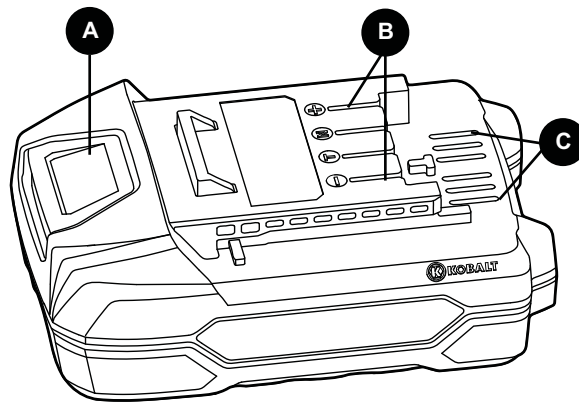
- **Do not charge the battery in a damp or wet location.** Following this rule will reduce the risk of electric shock.
- **For best results, your battery should be charged in a location where the temperature is greater than 41°F (5° C) and less than 104°F (40° C). Do not store outside or in vehicles.**
- **Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets in your eyes, flush them with clean water for at least 10 minutes, and then seek immediate medical attention.** Following this rule will reduce the risk of serious personal injury.
- **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** These substances contain chemicals that can damage, weaken or destroy plastic.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you lend someone this tool, lend them these instructions also to prevent misuse of the product and possible injury.

## PREPARATION

---

### Know Your Battery Pack

Before attempting to use the battery pack, familiarize yourself with all of its operating features and safety requirements.



Part	Description
A	Battery release button
B	Electrical contacts
C	Battery vents

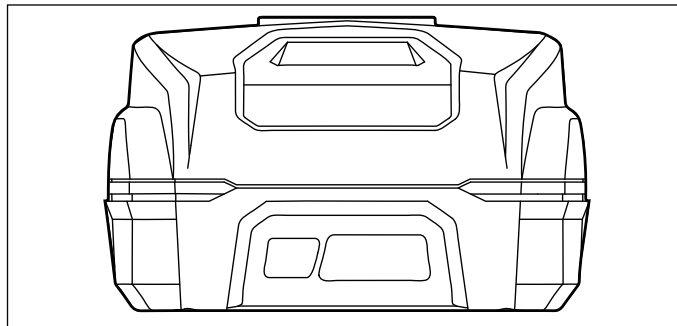
## OPERATING INSTRUCTIONS

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### Power Indicator

This lithium-ion battery pack is equipped with a power indicator that displays the battery pack's charge status. Press the power indicator button to display the LED lights. The LED lights will stay lit for approximately 4 seconds.

**NOTICE:** The power indicator can be used whether the battery is attached or removed from tool.



● ● ● ●	80% - 100% charge
○ ● ● ●	60% - 79% charge
○ ○ ● ●	40% - 59% charge
○ ○ ○ ●	20% - 39% charge
○ ○ ○ ●	Under 20% charge
☼ ☼ ☼ ☼	Completely discharged or overloaded
☼ ○ ☼ ○	High/low temperature
○ ☼ ○ ☼	

## OPERATING INSTRUCTIONS

---

### Low Capacity Warning

If one LED on the POWER BAR begins to flash, the battery pack is charged to less than 10% of its capacity and should be recharged.

Unlike other types of battery packs, lithium-ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as it is used.

The power delivered to the tool will drop quickly when the battery pack is at the end of its run time and needs to be charged. When the battery pack is completely discharged, the POWER BAR will begin to display four flashing LED lights. When this happens, remove the tool from the workpiece and charge the battery pack as needed.

### Battery Protection

The battery circuitry protects the battery pack from extreme temperature, over-discharge, and over-charge. To protect the battery from damage and prolong its life, the battery pack circuitry will turn off the battery pack if it becomes overloaded or if the temperature becomes too high during use. This may happen in extremely high torque, binding, and stalling situations. This intelligent system will shut down your battery pack if its operating temperature exceeds 176°F (80°C) and will begin normal operation when it returns to 32°F (0°C) - 122°F (50°C).

The POWER BAR will display four flashing LED lights if the circuitry detects a momentary overload. Reset the battery pack by pressing the POWER BAR button. Press the POWER BAR button again to display the remaining charge.

**NOTICE:** A significantly reduced run time after fully charging the battery pack indicates that the batteries are near the end of their usable life and must be replaced.



## **OPERATING INSTRUCTIONS**

---

### **Cold Weather Operation**

This lithium-ion battery pack will provide optimal performance in temperatures between 32°F (0°C) and 104°F (40°C). When the battery pack is very cold, it may “pulse” for the first minute of use to warm itself. Put the battery pack on a tool and use the tool in a light application. After about a minute, the battery pack will have warmed itself and will operate normally.

### **When to Charge the Battery Pack**

**NOTICE:** This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.

The lithium-ion battery pack can be charged at any time and will not develop a “memory” if it is charged after only a partial discharge. It is not necessary to completely discharge the battery pack before recharging. Remove the battery pack from the tool and recharge it when it is convenient or when it is not in use.

Use the POWER BAR to determine when the battery pack needs to be recharged.

It is recommended that the battery pack be brought up to full charge before starting a big job or using it for an extended period of time.

This lithium-ion battery pack delivers fade-free power, and therefore, the only time it is necessary to charge it is when the battery pack has reached the end of its charge. The power delivered to the tool will drop quickly when the battery pack is at the end of its run time and needs to be charged. Charge the battery pack as needed.

## OPERATING INSTRUCTIONS

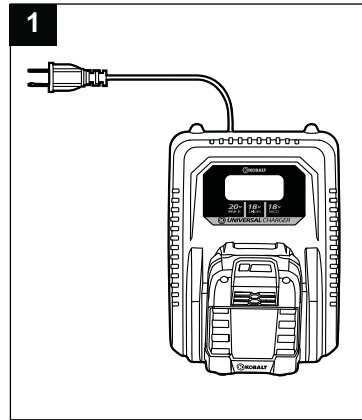
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### 1. How to Charge the Battery Pack

**NOTICE:** This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.


A fully discharged battery pack model K20-LB40A will charge in about 45 minutes and model K20-LB20A will charge in about 35 minutes in a surrounding temperature between 32°F (0°C) and 104°F (40°C).

- a. Always charge the battery pack with the correct charger.
- b. Connect the charger to a power supply.
- c. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger (Fig. 1).




## **CARE AND MAINTENANCE**

---

 All maintenance should be carried out only by an authorized service organization.

### **Cleaning**

 Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper operation, always keep the tool and its ventilation slots clean.

Always use only a soft, dry cloth to clean your battery pack, never use any detergent or alcohol.

## **3-YEAR HASSLE-FREE WARRANTY**

---

These battery packs are warranted to the original purchaser from the original purchase date for three (3) years subject to the warranty coverage described herein.

This battery pack is warranted for the original user to be free from defects in material and workmanship.

If you believe that the battery pack is defective at any time during the specified warranty period, simply return the battery pack along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.



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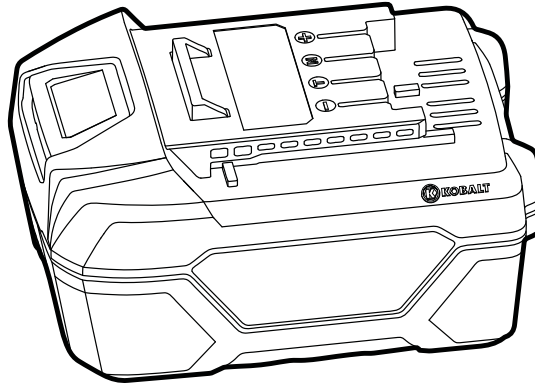
ITEM #0437531

**20-VOLT EXTENDED RUN  
LITHIUM-ION BATTERY**

MODEL #K20-LB40A

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Español p. 27



**ATTACH YOUR RECEIPT HERE**

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-888-356-2258), 8 a.m. - 8 p.m., EST, Monday - Friday.

AB12438

[kobalttools.com](http://kobalttools.com)



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Warranty . . . . .	12

## **SPECIFICATIONS**

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<b>COMPONENT</b>	<b>SPECIFICATIONS</b>
Model	K20-LB40A
Battery type	Lithium
Battery voltage	20V D/C
Battery charger model	K20-MC60A

## **SAFETY INFORMATION**

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Carefully read this manual and all labels affixed to the battery pack before using. Keep this manual available for future reference.

### **IMPORTANT**

This battery pack should only be serviced by a qualified service technician.

### **READ ALL INSTRUCTIONS THOROUGHLY**

#### **General Safety Rules for All Power Tools**

 **WARNING: Read all safety warnings and all instructions.**  
Failure to follow all 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.

#### **Work area safety**

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

## SAFETY INFORMATION

---

### Electrical Safety

- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

### Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When the battery pack is not in use, keep it away from other metal objects such as 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 may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, also seek medical help.** Liquid ejected from the battery may cause irritation or burns.

### Service

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

## SAFETY INFORMATION

---

### Specific Safety Rules for Battery Pack

- Use battery only with the charger listed.

BATTERY PACK	CHARGER
K20-LB40A	K20-MC60A

- **Know your power tool. Read the operator's manual carefully. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Battery tools do not have to be plugged into an electrical outlet; they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.
- **Do not place battery tools or their batteries near fire or heat.** This will reduce the risk of explosion and possible injury.
- **Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow.** A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries vent hydrogen gas and can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.



## SAFETY INFORMATION

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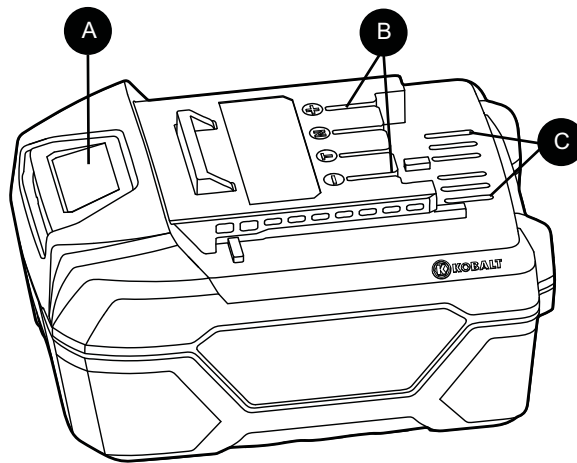
- **Do not charge the battery in a damp or wet location.** Following this rule will reduce the risk of electric shock.
- **For best results, your battery should be charged in a location where the temperature is greater than 41°F (5° C) and less than 104°F (40° C). Do not store outside or in vehicles.**
- **Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water, then neutralize with lemon juice or vinegar. If liquid gets in your eyes, flush them with clean water for at least 10 minutes, and then seek immediate medical attention.** Following this rule will reduce the risk of serious personal injury.
- **Do not let gasoline, oils, petroleum-based products, etc. come in contact with plastic parts.** These substances contain chemicals that can damage, weaken or destroy plastic.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you lend someone this tool, lend them these instructions also to prevent misuse of the product and possible injury.

## PREPARATION

---

### Know Your Battery Pack

Before attempting to use the battery pack, familiarize yourself with all of its operating features and safety requirements.



PART	DESCRIPTION
A	Battery release button
B	Electrical contacts
C	Battery vents

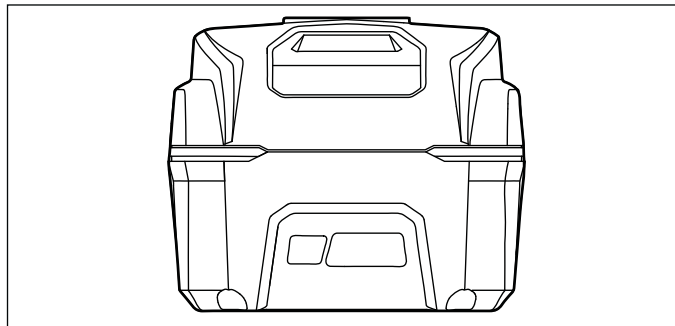
## OPERATING INSTRUCTIONS

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### Power Indicator

This lithium-ion battery pack is equipped with a power indicator that displays the battery pack's charge status. Press the power indicator button to display the LED lights. The LED lights will stay lit for approximately 4 seconds.

**NOTICE:** The power indicator can be used whether the battery is attached or removed from tool.



● ● ● ●	80% - 100% charge
○ ● ● ●	60% - 79% charge
○ ○ ● ●	40% - 59% charge
○ ○ ○ ●	20% - 39% charge
○ ○ ○ ●	Under 20% charge
☼ ☼ ☼ ☼	Completely discharged or overloaded
☼ ○ ☼ ○	High/low temperature
○ ☼ ○ ☼	

## **OPERATING INSTRUCTIONS**

---

### **Low Capacity Warning**

If one LED on the POWER BAR begins to flash, the battery pack is charged to less than 10% of its capacity and should be recharged.

Unlike other types of battery packs, lithium-ion battery packs deliver fade-free power for their entire run time. The tool will not experience a slow, gradual loss of power as it is used.

The power delivered to the tool will drop quickly when the battery pack is at the end of its run time and needs to be charged. When the battery pack is completely discharged, the POWER BAR will begin to display four flashing LED lights. When this happens, remove the tool from the workpiece and charge the battery pack as needed.

### **Battery Protection**

The battery circuitry protects the battery pack from extreme temperature, over-discharge, and over-charge. To protect the battery from damage and prolong its life, the battery pack circuitry will turn off the battery pack if it becomes overloaded or if the temperature becomes too high during use. This may happen in extremely high torque, binding, and stalling situations. This intelligent system will shut down your battery pack if its operating temperature exceeds 176°F (80°C) and will begin normal operation when it returns to 32°F (0°C) - 122°F (50°C).

The POWER BAR will display four flashing LED lights if the circuitry detects a momentary overload. Reset the battery pack by pressing the POWER BAR button. Press the POWER BAR button again to display the remaining charge.

**NOTICE:** A significantly reduced run time after fully charging the battery pack indicates that the batteries are near the end of their usable life and must be replaced.

## **OPERATING INSTRUCTIONS**

---

### **Cold Weather Operation**

This lithium-ion battery pack will provide optimal performance in temperatures between 32°F (0°C) and 104°F (40°C). When the battery pack is very cold, it may “pulse” for the first minute of use to warm itself. Put the battery pack on a tool and use the tool in a light application. After about a minute, the battery pack will have warmed itself and will operate normally.

### **When to Charge the Battery Pack**

**NOTICE:** This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.

The lithium-ion battery pack can be charged at any time and will not develop a “memory” if it is charged after only a partial discharge. It is not necessary to completely discharge the battery pack before recharging. Remove the battery pack from the tool and recharge it when it is convenient or when it is not in use.

Use the POWER BAR to determine when the battery pack needs to be recharged.

It is recommended that the battery pack be brought up to full charge before starting a big job or using it for an extended period of time.

This lithium-ion battery pack delivers fade-free power, and therefore, the only time it is necessary to charge it is when the battery pack has reached the end of its charge. The power delivered to the tool will drop quickly when the battery pack is at the end of its run time and needs to be charged. Charge the battery pack as needed.

## OPERATING INSTRUCTIONS

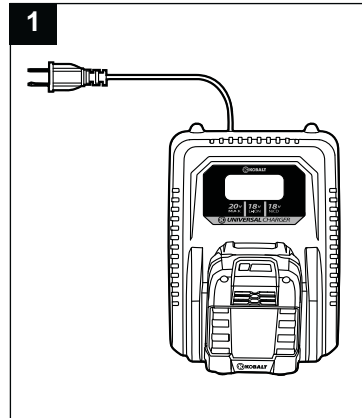
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### 1. How to Charge the Battery Pack

**NOTICE:** This lithium-ion battery pack is shipped partially charged. Before using it the first time, fully charge the battery pack.


A fully discharged battery pack model K20-LB40A will charge in about 45 minutes and model K20-LB20A will charge in about 35 minutes in a surrounding temperature between 32°F (0°C) and 104°F (40°C).

- a. Always charge the battery pack with the correct charger.
- b. Connect the charger to a power supply.
- c. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger (Fig. 1).




## CARE AND MAINTENANCE

---

 All maintenance should be carried out only by an authorized service organization.

### Cleaning

 Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper operation, always keep the tool and its ventilation slots clean.

Always use only a soft, dry cloth to clean your battery pack, never use any detergent or alcohol.

## 3-YEAR HASSLE-FREE WARRANTY

---

These battery packs are warranted to the original purchaser from the original purchase date for three (3) years subject to the warranty coverage described herein.

This battery pack is warranted for the original user to be free from defects in material and workmanship.

If you believe that the battery pack is defective at any time during the specified warranty period, simply return the battery pack along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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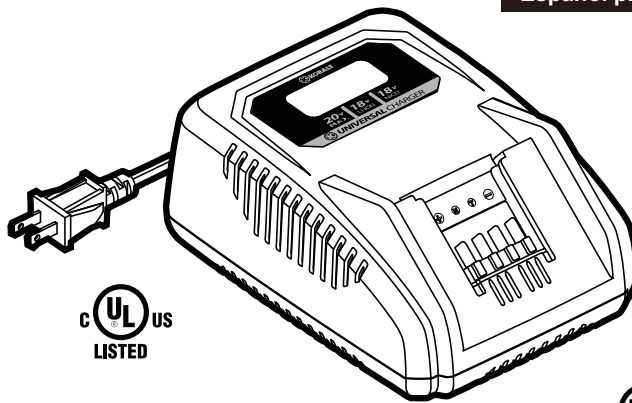
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ITEM #0437532  
**18/20-VOLT  
LITHIUM-ION/NiCd  
CHARGER**

MODEL #K20-MC60A

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**ATTACH YOUR RECEIPT HERE**

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT (1-888-356-2258), 8 a.m. - 8 p.m., EST, Monday - Friday.

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## PRODUCT SPECIFICATIONS

COMPONENTS	SPECIFICATIONS
Charger input	120-Volts, 60Hz A/C only
Charging output	20V D/C
Charging time for batteries	K18-LB15A: 20 min. K18-LB30A: 30 min. K18-NB15A: 60 min. K20-LB20A: 35 min. K20-LB40A: 45 min.
Optimum charging temperature	32°F (0°C) - 131°F (55°C) for Lithium batteries 41°F (5°C) - 104°F (40°C) for NiCd battery

**NOTICE:** For use with the following batteries only.

BATTERY PACK	VOLTAGE	BATTERY CAPACITY	TYPE
K18-NB15A	18V	1,500 mAh max	NiCd
K18-LB15A	18V	1,500 mAh max	Li-Ion
K18-LB30A	18V	3,000 mAh max	Li-Ion
K20-LB20A	20V	2,000 mAh max	Li-Ion
K20-LB40A	20V	4,000 mAh max	Li-Ion


## **IMPORTANT SAFETY INSTRUCTIONS**

---

### **Save These Instructions**

This manual contains important safety and operating instructions for battery charger.

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

 **CAUTION:** To reduce risk of injury, charge only 18V, maximum 1,500 mAh Ni-Cd, 18V, maximum 3,200 mAh Li-Ion or 20V, maximum 4,000 mAh Li-Ion type rechargeable batteries. Other types of batteries may burst causing personal injury and damage.

## **SAFETY INFORMATION**

---

### **Know the Tool**


To operate this tool, carefully read this manual and all labels affixed to the tool before using it. Keep this manual available for future reference.

### **Important**

This tool should only be serviced by a qualified service technician.

### **Read All Instructions Thoroughly**

#### **General Safety Rules for all Power Tools**

 **WARNING: Read all safety warnings and all instructions.** Failure to follow all 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.

## SAFETY INFORMATION

---

### Work Area Safety

- **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### Electrical Safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **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.

## SAFETY INFORMATION

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### Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection, used for appropriate conditions, will reduce personal injuries.
- **Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a 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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothing, jewelry or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust-extraction and collection facilities, ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

## SAFETY INFORMATION

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### Power Tool Use and Care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and more safely at the rate for which it was designed.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories, 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.

## SAFETY INFORMATION

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### **Battery Tool Use and Care**

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When a battery pack is not in use, keep it away from other metal objects, such as 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.
- **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.


### **Service**

- **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.


## SAFETY INFORMATION

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### Specific Safety Rules for Lithium Ion/NiCd Charger

 **WARNING:** Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

- Before using the battery charger, read all instructions and cautionary markings in this manual and on the battery charger. Also read all the instructions in the manuals for and the cautionary markings on the battery and the product using the battery to prevent misuse of the products and possible injury or damage

 **CAUTION:** To reduce the risk of electric shock or damage to the charger and battery, charge only those rechargeable batteries specifically designated on your charger's label. Other types of batteries may burst, causing personal injury or damage.

- Do not use the charger outdoors or expose it to wet or damp conditions. Water entering the charger will increase the risk of electric shock.
- Use of an attachment not recommended or sold by the battery-charger manufacturer may result in a risk of fire, electric shock or injury to persons.
- Do not abuse the cord or charger. Never use the cord to carry the charger. Do not pull the charger cord to disconnect the plug from a receptacle. Damage to the cord or charger could occur and create an electric shock hazard. Replace damaged cords immediately.
- Make sure that the cord is located so that it will not be stepped on, tripped over, come in contact with sharp edges or moving parts, or otherwise subjected to damage or stress. This will reduce the risk of accidental falls, which could cause injury and damage to the cord, which could then result in electric shock.

**⚠ SAFETY INFORMATION**

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- Keep the cord and charger away from heat to prevent damage to the housing or internal parts.
- Do not allow gasoline, oils, petroleum-based products, etc. to come in contact with plastic parts. These materials contain chemicals that can damage, weaken, or destroy plastic.
- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure that:
  - The pins on the plug of extension cord are the same number, size and shape as those of the plug on charger.
  - The cord is properly wired and in good electrical condition

The size is large enough for A/C ampere rating of charger as specified below:

<b>Cord Length (Feet)</b>	<b>25 ft.</b>	<b>50 ft.</b>	<b>100 ft.</b>
<b>Cord Size (AWG)</b>	<b>16</b>	<b>16</b>	<b>16</b>

**NOTICE:** AWG = American Wire Gauge

- Do not operate the charger with a damaged cord or plug, which could cause shorting and electric shock. If damaged, have the charger repaired or replaced by an authorized service technician.
- Do not operate the charger if it has received a sharp blow, been dropped, or has otherwise been damaged in any way. Take it to an authorized service technician for an electrical check to determine if the charger is in good working order.
- Do not disassemble the charger. Take it to an authorized service technician when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.



## SAFETY INFORMATION

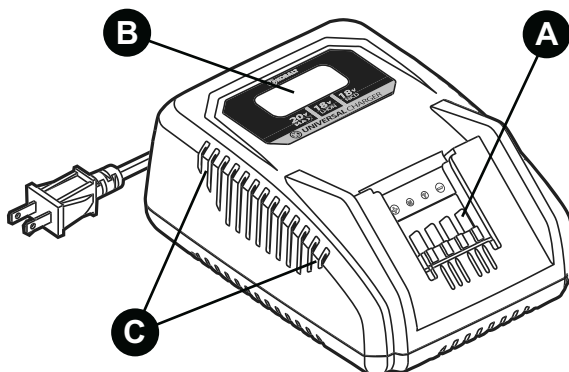
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- Unplug the charger from the electrical outlet before attempting any maintenance or cleaning to reduce the risk of electric shock.
- Disconnect charger from the power supply when not in use. This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening. It will also help prevent damage to the charger during a power surge.
- Risk of electric shock. Do not touch the uninsulated portion of output connector or uninsulated battery terminal.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you loan this tool to someone else, also loan these instructions to them to prevent misuse of the product and possible injury.

## PREPARATION

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Before attempting to use the charger, familiarize yourself with all of its operating features and safety requirements.



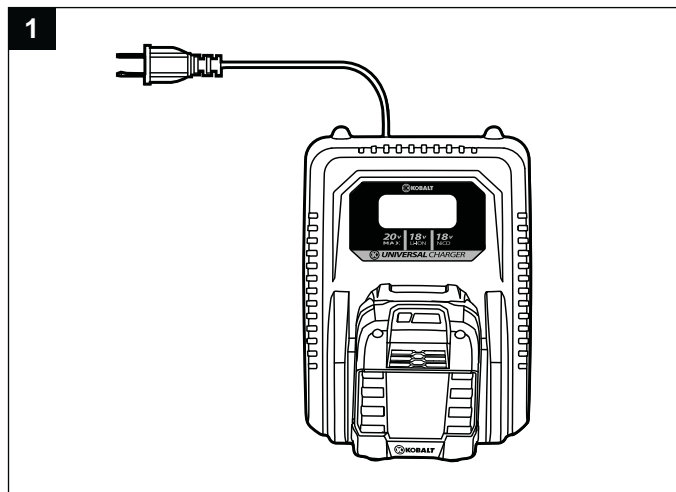
PART	DESCRIPTION
A	Electric Contacts
B	LCD Screen
C	Air Vents

**⚠ WARNING:** Do not allow familiarity with the charger to cause carelessness. Remember that one careless moment is enough to cause severe injury. Before attempting to use any tool, be sure to become familiar with all of the operating features and safety instructions.

## OPERATING INSTRUCTIONS

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Battery packs are shipped in a low charge condition to prevent possible problems.



### Lithium-Ion Batteries

It is not necessary to run down the Lithium-Ion battery pack charge before recharging. Remove the battery pack from the tool and recharge it when it is convenient.

### NiCd Batteries

For best performance, fully charge and fully discharge the battery for each cycle.

**NOTICE:** Before using it the first time, fully charge the battery pack. A fully discharged battery pack will charge about 20-60 minutes, depending on the type.

## OPERATING INSTRUCTIONS

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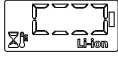
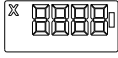
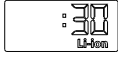


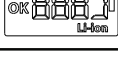

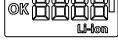
1. Charge the battery pack with the correct charger.
2. Connect the charger to a power supply.
3. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger (**Fig. 1**).
4. The charger will communicate with the battery pack's circuitry to evaluate the condition of the battery pack. Please see **CHARGER DISPLAY** on the following pages.
5. If defective, remove and re-insert the battery pack in the charger. If the screen indicates "defective" a second time, try charging a different battery pack.
6. If a different battery pack charges normally, dispose of the defective battery pack.
7. If a different battery pack also indicates "defective," the charger may be defective.

**NOTICE:** The battery pack will fully charge, but will not overcharge, if left on the charger.

**NOTICE:** The charger may warm with several continuous charge cycles. This is part of the normal operation of the charger. Always charge in a well-ventilated area.

## OPERATING INSTRUCTIONS

### When Charging Lithium-Ion Battery Pack K18-LB15A / K18-LB30A / K20-LB20A / K20-LB40A



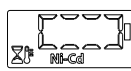
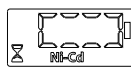




ICON	BACKLIGHT	FLASH RATE	DURATION	INDICATION
	Green	Steady	2 seconds	Power on; ready to charge
	None	Steady	Indefinite	Power on; no battery installed
	Orange	Slow flash	Up to 90 minutes	Hot/cold battery <sup>a</sup>
	Red	Rapid flash	Approx. 10 minutes	Defective battery <sup>b</sup>
 	Orange Orange	Alternates between icons	10 - 40 minutes	Minutes remaining to full charge
 	Green Green	Alternates between icons	Approx. 10 minutes	OK appears when the battery is charged 80%
	Green	Steady		Fully charged
	None			Fully charged The backlight will turn off automatically

<sup>a</sup> Charging will start when battery is within temperature range: 32°F (0°C) - 131°F (55°C).

<sup>b</sup> After approximately 10 minutes the charger will re-evaluate. If still defective, the backlight will turn off.

## OPERATING INSTRUCTIONS

### When Charging NiCd Battery Pack K20-NB15A

ICON	BACKLIGHT	FLASH RATE	DURATION	INDICATION
	Green	Steady	2 seconds	Power on; ready to charge
	None		Indefinite	Power on; no battery installed
	Orange	Slow flash		Hot/cold battery <sup>c</sup>
	Orange	Flashes slowly	2 minutes	Deep discharge <sup>d</sup>
	Red	Rapid flash	Indefinite	Defective battery <sup>e</sup>
	Orange	Moves from left to right		Charging
	Green	Steady		Fully charged
	None			Fully charged The backlight will turn off automatically

<sup>c</sup> Charging will start when battery is within temperature range: 41°F (5°C) - 104°F (40°C).

<sup>d</sup> Battery voltage is very low; normal charging will begin in 1-2 minutes.

<sup>e</sup> After approx. 10 minutes the charger will re-evaluate.

## CARE AND MAINTENANCE

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**⚠** All maintenance should only be carried out by an authorized service organization.

### Cleaning

**⚠** Before cleaning or performing any maintenance, remove the battery pack from the tool. For safe and proper operation, always keep the tool and its ventilation slots clean.

Always use only a soft, dry cloth to clean your charger, never use any detergent or alcohol.

## 3-YEAR HASSLE-FREE WARRANTY

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This charger is warranted to the original purchaser from the original purchase date for three (3) years subject to the warranty coverage described herein.

This charger is warranted for the original user to be free from defects in material and workmanship.

If you believe that the charger is defective at any time during the specified warranty period, simply return the charger along with proof of purchase to the place of purchase for a free replacement or refund, or call 1-888-3KOBALT for warranty service.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration.

This warranty excludes blades, bits, bulbs and accessories.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

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