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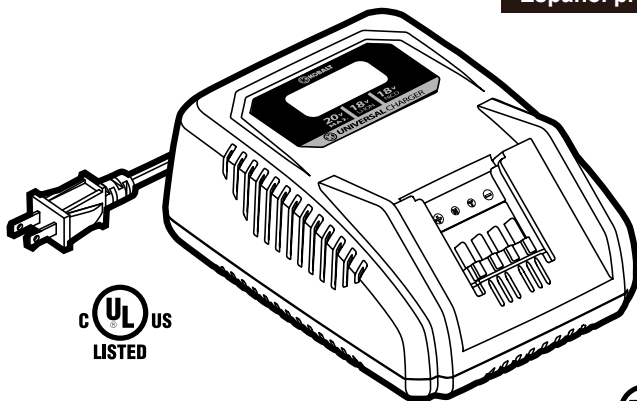
ITEM #0437532

18/20-VOLT LITHIUM-ION/NiCd CHARGER

MODEL #K20-MC60A

Français p. 17

Español p. 35



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.

AB12439

kobalttools.com



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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

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

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

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

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

- 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:

Cord Length (Feet)	25 ft.	50 ft.	100 ft.
Cord Size (AWG)	16	16	16

NOTICE: AWG = American Wire Gauge

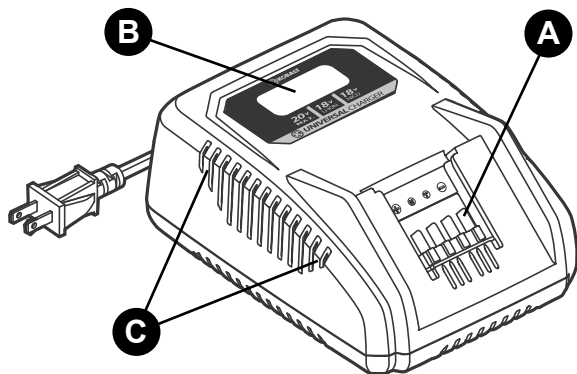
- Do not operate the charger with a damaged cord or plug, which could cause shorting and electric shock. If damaged, have the charger repaired or replaced by an authorized service technician.
- Do not operate the charger if it has received a sharp blow, been dropped, or has otherwise been damaged in 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

- 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

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

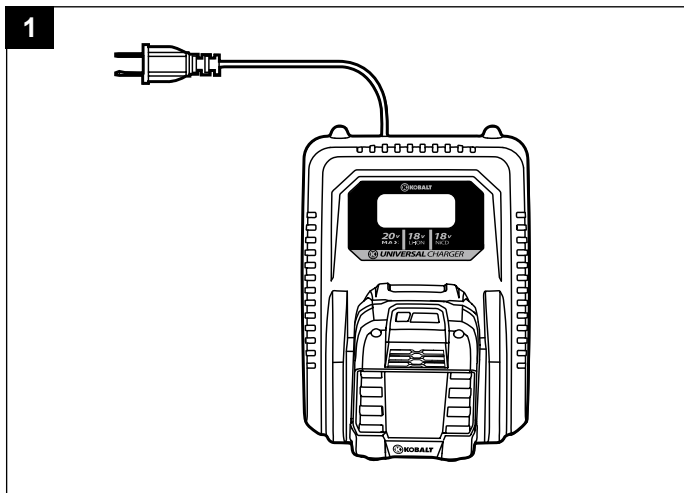


PART	DESCRIPTION
A	Electric Contacts
B	LCD Screen
C	Air Vents

⚠ 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

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



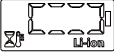
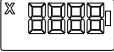

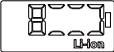




1. Charge the battery pack with the correct charger.
2. Connect the charger to a power supply.
3. Attach the battery pack to the charger by aligning the raised ribs of the battery pack with the slot in the charger. Slide the battery pack onto the charger (**Fig. 1**).
4. The charger will communicate 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





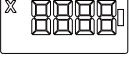



ICON	BACKLIGHT	FLASH RATE	DURATION	INDICATION
	Green	Steady	2 seconds	Power on; ready to charge
	None	Steady	Indefinite	Power on; no battery installed
	Orange	Slow flash	Up to 90 minutes	Hot/cold battery ^a
	Red	Rapid flash	Approx. 10 minutes	Defective battery ^b
 	Orange Orange	Alternates between icons	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

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

^b 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 ^c
	Orange	Flashes slowly	2 minutes	Deep discharge ^d
	Red	Rapid flash	Indefinite	Defective battery ^e
	Orange	Moves from left to right		Charging
	Green	Steady		Fully charged
	None			Fully charged The backlight will turn off automatically

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


^d Battery voltage is very low; normal charging will begin in 1-2 minutes.

^e After approx. 10 minutes the charger will re-evaluate.

CARE AND MAINTENANCE

 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

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.