

ITEM # LIDDCK20

Cordless Lithium Ion Drill & Impact Driver Combo Kit



Thank you for your purchase! If you have questions or problems with your product, CALL CUSTOMER SERVICE. If you experience a problem, have questions or need parts for this product, call **1-636-532-9888**, Monday - Friday, 8 AM - 4 PM Central Time. A copy of the sales receipt is required.

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT.

This manual provides important information on proper operation & maintenance. Every effort has been made to ensure the accuracy of this manual. These instructions are not meant to cover every possible condition and situation that may occur. **We reserve the right to change this product at any time without prior notice.**

FOR CONSUMER USE ONLY – NOT FOR PROFESSIONAL USE.

KEEP THIS MANUAL, SALES RECEIPT & APPLICABLE WARRANTY FOR FUTURE REFERENCE.



To register your product warranty, please visit buffalotools.com or scan the QR code.

GENERAL SAFETY INSTRUCTIONS



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.

WORK AREA

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

ELECTRICAL SAFETY

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

PERSONAL SAFETY

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries
- c) **Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your fingers on the switch or plugging in power tools that have the switch in invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of a power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can get caught in moving parts.
- g) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

POWER TOOL USE AND CARE

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it is designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventative safety measures reduce the risk of starting power tools accidentally.
- d) **Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tool, 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.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

BATTERY USE AND CARE

- a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e) **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 266 °F may cause explosion.
- g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

SAFETY INSTRUCTIONS FOR IMPACT DRIVER

Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

EXTRA SAFETY REGULATIONS CONCERNING BATTERY

To ensure the longest battery life and best battery performance, always charge the battery when the temperature is between 64 - 75°F. Do not charge the battery pack when the temperature is below 32°F, or above 104°F. This is important. Failure to observe this safety rule could cause serious damage to the battery pack.

Do not incinerate the battery pack even if it is seriously damaged or can no longer hold a charge. The battery pack can explode in a fire.

A small leakage of liquid from the battery pack may occur under extreme usage or temperature. This does not necessarily indicate a failure of the battery pack. However, if the outer seal is broken and this leakage comes into contact with your skin:

Wash the affected area quickly with soap and water.

Neutralise the liquid with a mild acid such as lemon juice or vinegar. If the leakage gets in your eyes:

Flush your eyes with clean water for a minimum of 10 minutes and seek immediate medical attention.

Inform the medical staff that the liquid is a 25-35% solution of potassium hydroxide.

Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks open or cracks, immediately discontinue its use and do not recharge it.

Do not store or carry a spare battery pack in a pocket or toolbox or any other place where it may come into contact with metal objects. The battery pack may be short circuited causing damage to the battery pack, burns or a fire. If storing or disposing the battery pack, cover the terminals with a heavy insulation tape to ensure short circuit cannot occur. Batteries, when stored for a long period of time, will discharge.

Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40°C such as alongside sheds or metal structures in the summer.

Allow the battery pack to cool down after charging. Do not place it in a hot environment such as a metal shed or open trailer left in the sun.

Only charge the battery with the charger supplied.

Do not put the battery pack near fire or high temperature position.

Do not splash or immerse in water or other liquids. This may cause premature cell failure.

When transporting individual batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold.

If the battery pack has been stored for a long time, activate the battery pack first before using it.

Dispose of the battery safely.

EXTRA SAFETY REGULATIONS CONCERNING BATTERY CHARGER

This tool is not a toy. It should only be used by adults. Children shall not play with the tool.

For indoor use only. Charge your battery pack indoors as the charger is designed for indoor use only.

WARNING

If the battery pack is cracked or damaged in any other way, do not insert it in the charging base. There is a danger of electric shock or electrocution.

WARNING

Do not allow any liquid to come into contact with the charger. There is a danger of electric shock.

The charger is not intended for any use other than charging the exact type of rechargeable battery pack as supplied with the charger. Any other use may result in the risk of fire, electric shock or electrocution.

The charger and battery pack supplied with it are specifically designed to work together. Do not attempt to charge the battery pack with any other charger than the one supplied.

Do not place any object on top of the charger as it could cause overheating. Do not place the charger near any heat source.

Pull on the charger to disconnect it from the power source. Do not pull on the lead.

Make sure that the charger lead is positioned where it will not be stepped on, tripped over or otherwise subjected to damage or stress.

Do not use an extension cord unless it is absolutely necessary. The use of an improper extension cord could cause the risk of fire, electric shock or electrocution.

Do not use the charger if it has been subjected to a heavy knock, dropped or otherwise damaged in any way. Take the charger to an authorized service centre for a check or repair.

Do not disassemble the charger. Take it to an authorized service centre when service or repair is required. Incorrect re-assembly may result in the risk of fire, electric shock or electrocution.

To reduce the risk of an electric shock, unplug the charger from the power supply before attempting to clean it. Removing the battery pack alone does not reduce the risk.

The charger is designed for use from a standard household electrical supply. Do not attempt to connect the charger to a supply with a different voltage.

The charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the charger.

Do not expose charger to rain or snow.

Do not mount charger on wall or permanently affix charger to any surface. The charger is intended to use on a flat, stable surface (i.e. table top, bench top).

Never attempt to connect two chargers together.

Never insert any objects into the charger's air vents. Electric shock or damage to the battery charger may result.

Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk. Never recharge a fully charged battery cartridge. Do not charge non-rechargeable batteries.

CORDLESS IMPACT DRIVER COMPONENTS AND SPECIFICATIONS



1. Tool holder
2. Locking sleeve
3. Forward/reverse rotation and lock control
4. On/off switch with variable speed control
5. LED work light
6. Battery pack
7. Belt clip

SPECIFICATIONS

Rated voltage	20V D.C.
No load speed	0-2600/min
Impact rate	0-3400t/min
Max torque	110Nm
Chuck capacity	1/4"
Battery and Charger	
Recommended battery	LIC BKIT20 Li-ion 20V d.c. 2000mAh
Recommended charger	Model : LICBKIT20 Input : 100-240V~ 50/60Hz 60W Output : 20V D.C., 2.0A Charging time : 1 hour

BEFORE USING THE EQUIPMENT

Battery Charger

The lithium-ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when convenient for you and your job. You can “top-off” your battery pack’s charge before starting a big job or long period of use.

Due to lithium-ion’s fade-free properties, the only time it is necessary to charge the lithium-ion battery pack is when the pack has reached the end of its charge. To signal the end of charge, power to the tool will drop quickly. Charge the battery pack as needed.

Charging the Battery

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 with a temperature between 41°F and 95°F will charge in about 0.5 - 2 hours (See section “Specifications”).

Plug the charger adapter into power source. The green light on the charger stand will illuminate, indicating the charger is powered.

Slide the battery all the way into the charger stand as far as it can go. The red light on the charger stand will illuminate, indicating that the battery is charging.

The red light will go off after charging is complete and a green light will appear.

NOTE: Batteries may become warm while charging. This is normal. If the battery is hot after continuous use in the tool, allow it to cool down to room temperature before charging. This will extend the life of your batteries.



Always disconnect the battery pack from the tool before any assembly, adjustments or changing accessories.

Insertion and removal of rechargeable battery

Depress the battery-release button located on the front of the battery pack to release battery pack.

Pull the battery pack out and remove it from the tool.



Always remove the battery pack before making adjustments to the equipment.

Be sure to read the following information before you put the cordless equipment into operation: Charge the battery pack with the charger. An empty battery pack requires a charging period of approximately 0.5 to 2 hours.

To insert the rechargeable battery in a power tool, simply slide the battery with correct orientation into the corresponding battery intake of the power tool until it engages with a click. Do not use any force.

The charger does not have an engaging function, the rechargeable battery can simply be pulled out of the charger.

OPERATING INSTRUCTIONS



Fig. 1



Fig. 2

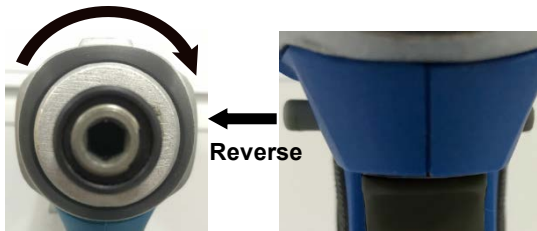


Fig. 3

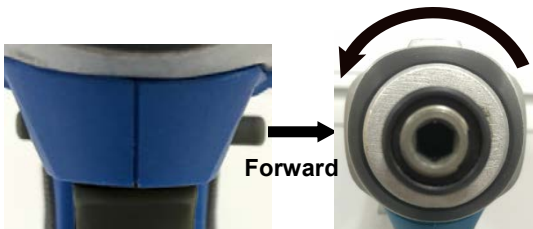


Fig. 4

Inserting socket or screwdriver bit (Fig. 1)

Pull the locking sleeve (2) forward. Fully insert the desired bit into the tool holder and release the locking sleeve (2). Pull bit forward to ensure correct fitting.

To remove, pull the locking sleeve (2) forward.

On/off Switch (Fig. 2)

Depress the on/off switch (4) to start and release it to stop your driver.

The on/ off switch is fitted with a brake function which stops the spindle immediately when you quickly release the switch.

It is also a variable speed switch that delivers higher speed and torque with increased trigger pressure.

⚠ WARNING

Do not operate for long periods at low speed because excess heat will be produced internally,

Switch Lock

The switch trigger can be locked in the OFF position. This helps to reduce the possibility of accidental starting when not in use.

To lock the switch trigger, place the forward/reverse rotation and lock control (3) in the center position.

Forward/reverse Adjustment (Fig. 3-4)

⚠ WARNING

Only change the rotational direction when the product is switched off and has come to a complete stop! Shifting during rotation of the spindle can cause damage to the tool.

Move the forward/reverse rotation and lock control (3) to the left in order to use the product in a clockwise rotational mode.

Move forward/reverse rotation and lock control (3) to the right in order to use the product in anticlockwise rotational mode.



Fig.5



Fig.6

LED light (Fig. 5)

A LED light source is integrated in the housing. The light is activated as soon as the on/off switch is pressed.

Belt clip (Fig. 6)

Screw the belt clip (7) on the tool with the screw. The Belt clip can be hooked on your belt or pocket, etc.

Overload protection

When the tool/battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indication. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

When the tool/battery is overheated, the tool stops automatically. In this situation, let the tool/battery cool before turning the tool on again.

Over discharge protection

When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

OPERATION

Hold the tool firmly with one hand on the grip and the other hand on the bottom of the battery pack to control the twisting action. The proper fastening torque may differ depending upon the kind or size of the screw/bolt, the material of the work piece to be fastened, etc. The relation between fastening torque and fastening time is shown in the figures.

NOTE: Use the proper bit for the head of the screw/ bolt that you wish to use.

NOTE: When fastening M8 or smaller screw, choose a proper impact force and carefully adjust pressure on the switch trigger so that the screw is not damaged.

NOTE: Hold the tool pointed straight at the screw.

NOTE: If the impact force is too strong or you tighten the screw for a time longer than shown in the figures, the screw or the point of the driver bit may be overstressed, stripped, damaged, etc. Before starting your job, always perform a test operation to determine the proper fastening time for your screw.

1. The fastening torque is affected by a wide variety of factors including the following. After fastening, always check the torque with a torque wrench.
2. When the battery cartridge is discharged almost completely, voltage will drop and the fastening torque will be reduced.
Driver bit or socket bit - Failure to use the correct size driver bit or socket bit will cause a reduction in the fastening torque.
Bolt - Even though the torque coefficient and the class of bolt are the same, the proper fastening torque will differ according to the diameter of bolt.
3. Even though the diameters of bolts are the same, the proper fastening torque will differ according to the torque coefficient, the class of bolt and the bolt length.
4. The manner of holding the tool or the material of driving position to be fastened will affect the torque.
5. Operating the tool at low speed will cause a reduction in the fastening torque.

CLEANING AND MAINTENANCE

Keep the ventilation openings clear and clean the product regularly. This machine requires no special mechanical maintenance such as greasing the bearings.

If something unusual occurs during use, switch off the supply and remove the battery pack. Inspect and repair the tool before using it again. The repairs must be carried out by a qualified technician.

Repair of the tool must only be carried out by a qualified repair technician.

Repair or maintenance by unqualified personnel can lead to a risk of injury.

CORDLESS LITHIUM ION DRILL COMPONENTS AND SPECIFICATIONS

1. Keyless chuck
2. Hi/Low Speed Selector
3. LED work light
4. Speed Trigger Switch
5. Forward/Reverse Selector
6. Battery release button
7. Belt clip
8. Charger
9. Torque adjuster



Voltage 20V
No-load Speed 0-400 / 0-1100 RPM

Speed Trigger Switch

Turn the drill on by depressing the trigger switch.

Depressing the switch further will produce more speed and torque.

Side-Mounted Forward/Reverse Selector

Use side mounted Forward/Reverse Selector to change the direction of rotation of the drill.

The side mounted Forward/Reverse Selector has three positions: Forward (pushed to the left), Off (middle) and Reverse (pushed to the right).

Always check the rotation before beginning your work. Reverse can be used to back out of material or loosen screws.

Top-Mounted Two-Speed Gear Selector

Slide the Top-mounted Two-Speed Gear Selector to choose between position 1 for low speed range (0-400 RPM) and position 2 for high speed range (0-1100 RPM).

The low-speed range has more power and torque and should be used for high torque applications.

The high-speed range is for fast drilling or driving applications.

LED Work Light

Your tool has a built-in, trigger-switch-activated LED work light to illuminate the work area.

Keyless Chuck

Your drill is equipped with keyless chuck, so you change bits with no extra tools required.

To install bits:

Place the reversing switch in the Off (middle) position.

Rotate the chuck body counter-clockwise to open the chuck jaws to a point where the opening is slightly larger than the bit size you intend to use.

To insert the bit, tighten the chuck jaws by rotating the chuck body clockwise to lock the jaws.

To remove bits, place the reversing switch in the Off (middle) position. Loosen the chuck jaws by rotating the chuck body counter-clockwise.

NOTE: Always make sure that bits are seated firmly between the chuck jaws. Never attempt to operate a bit that is wobbly, unstable, or broken.

General Screwdriving Instructions

Clamp your work piece.

Drill pilot holes for larger screws or when driving screws into hardwoods.

Exert just enough pressure to start the screw and keep it turning.

Do not force the screw. Let the tool do the work.

Use a speed that will not strip the screw head or break the screw.

Maintain your balance.

General Drilling Instructions

Clamp your work piece. Use torque setting then exert enough pressure to start the drill bit and keep drilling. Do not force or stall the bit. Don't bend or twist the bit. Let the tool and the drill bit do the work.

Maintain your balance and be prepared for binding and for bit breakthrough.

WARNING: Forcing a drill bit, bending or twisting the bit, or failure to maintain balance in case of binding and breakthrough can result in serious personal injury.

Chattering or vibration may indicate you need a finer bit or higher speed. If the bit overheats or clogs, it may indicate you need a coarser bit or slower speed setting. Replace bits when they become dull. Dull bits will produce poor results and may overheat the drill.

Use a coating of light oil when drilling into metal to help cool the bit, increase drilling action and extend drill bit life.

Maintenance and Storage

Always put the Forward/Reverse switch in the middle position prior to maintenance!

Always keep the tool and the ventilation slots (if present) cleaned. Regular cleaning and maintenance of the appliance will ensure efficiency and prolong the life of your tool.

If the tool should fail despite the rigorous manufacturing and testing procedures, the repair should be carried out by an authorized customer service.

Keep all nuts, bolts, and screws tight, to be sure the tool is in safe working condition.

Replace worn or damaged parts for safety.

Use only original spare parts. Parts not produced by manufacturer may cause poor fit and possible injury.

Store the tool in a dry room out of reach of children and away from any flammable material.

Never wet the device or spray water on it!

Remove any packing material and loose parts from unit.

Check the accessories before use. They should fit with the machine and your purpose.

If the battery is new it should be fully charged before use. Batteries are shipped with only a partial charge.

NOTE: Extended periods of storage without charge/discharge cycles will reduce the battery capacity.

A new battery or one which has not been used for an extended period achieves full performance only after charging and discharging cycles. A substantial drop in operating period per charge indicates that the battery is worn out and must be replaced.

USE OF BATTERY CHARGER

The lithium-ion battery can be charged at any time and will not develop a “memory” when charged after only a partial discharge. It is not necessary to run down the battery pack charge before recharging. Remove the battery pack from the tool when convenient for you and your job. You can “top-off” your battery pack’s charge before starting a big job or long period of use.

Charging the battery

This lithium-ion battery pack is shipped partially charged. Before using it the first time, it must be fully charged. A fully discharged battery pack with a temperature between 32 degrees F and 104 degrees F will charge in about 1 hour.

Plug the charger adapter into power source. The green light on the charger stand will illuminate, indicating the charger is powered.

Slide the battery all the way into the charger until it locks in place with a click. The red light on the charger will illuminate, indicating that the battery is charging.

When charging is complete the red light will be replaced by a green light.

NOTE: Batteries may become warm while charging. This is normal. If it is hot after continuous use in the tool, allow it to cool down to room temperature before charging. This will extend the life of your batteries.



⚠ WARNING

Always disconnect the battery pack from the tool before any adjustments or changing accessories.

Inserting and removing rechargeable battery

Hold the tool with one hand and the battery pack with the other.

To install: push and slide battery pack into battery port, make sure the release latch on the rear side of the battery snaps into place and battery is secure before beginning operation.

To remove: Press the battery release latch and pull the battery pack out at the same time.

