

# SUMAKE®

*Professional & Industrial*

## INSTRUCTION MANUAL

ITEM NO.: **BT-B4181241**  
**18V CORDLESS BRUSHLESS**  
**1/2"(13MM) IMPACT DRILL**



BT-B4181241-I-2004A-J5

## GENERAL SAFETY RULES

### Thank You For Buying A tool

Manufactured to high standard for dependability, properly cared for, it will give you years of trouble free performance.

#### Important:

Carefully read through this entire owner's manual before using your new tool. Pay close attention to the Rules for Safe Operation. Warnings and Cautions. Use your tool properly and only for what it is intended.

The use of safety symbols in this manual is to attract your attention to possible dangers. The safety symbols, and the explanations with them, require your full understanding. The safety warnings do not by themselves eliminate any danger, nor are they substitutes for proper accident prevention measures.



**SYMBOL:** This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock always follow the safety precautions

### KNOW YOUR TOOL

Safe operation of this tool requires that you read and fully understand this owner's manual and all labels affixed to the tool.

Learn its applications and limitations as well as the potential hazards peculiar to a power tool. Keep this manual readily available for future reference.

### IMPORTANT

Servicing of a tool requires extreme care and knowledge and should be performed only by a qualified service technician. For service or repair contact and Authorize Service Center.



**CAUTION:** Do not attempt to operate this tool until you have thoroughly read and completely understood all instructions, safety rules, etc., contained in this manual. Failure to comply can result in accidents involving fire, electric shock, or serious personal injury. Save the Owner's Manual and review frequently for continuing safe operation and for instructing others who may use this tool.



**WARNING:** When using power tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the precautions following.



**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.

## GENERAL POWER TOOL SAFETY WARNINGS

Save all warnings and instructions for future reference

The term "power tool" in the warnings refer to your mains operated (corded) power tool or battery operated (cord- less) power tool.

### 1. SAFETY

- (1) Keep 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.
- (2) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### 2. Electrical safety

- (1) 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.
- (2) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

### 3. Personal safety

- (1) 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.
- (2) 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.
- (3) 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.

- (4) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- (5) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- (6) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust- related hazards.

#### 4. Power tool use and care

- (1) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- (2) **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.
- (3) **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.
- (4) **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.
- (5) **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 intended could result in a hazardous situation.

#### 5. Battery tool use and care

- (1) **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.
- (2) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- (3) **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.
- (4) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

#### 6. Service

- (1) **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.



**WARNING:** The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before operating power tool, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields

### IMPORTANT SAFETY INSTRUCTIONS FOR CHARGER

#### Save These Instructions

Input: Only use the rated voltage marked in charger.

##### 1. Charging voltage: 20V

Quick charge current :  $3A \pm 0.3A$  Maintaining charge :  $200mA \pm 50mA$

Battery charging time at 20°C

3.0Ah ..... Approx  $\leq 60$  min.

4.0Ah ..... Approx  $\leq 90$  min.

5.0Ah ..... Approx  $\leq 100$  min.

**NOTE:** The charging time may vary according to an ambient temperature and power source voltage.



2. Before charging, study the instruction sheet;
3. Disconnect the supply before making or breaking connections to the battery;
4. For indoor use or do not expose to rain (for ordinary battery chargers).
5. Correct use: Universal fast chargers are to be used exclusively for charging 18V serious recharge-able battery packs. Any other may result in risk of fire, electric shock or electrocution. The user bears sole responsibility for any damage caused by inappropriate use. The generally recognized accident prevention regulations and the safety instructions which accompany them must be adhered to.

Battery Charger Model No.	Battery Pack	
	Model	Volt
BC20S21	BP2030S21	18V, 3.0Ah
	BP2050S21	18V, 4.0Ah
	BP2050S21	18V, 5.0Ah
● Do not try to charge non-chargeable batteries with this charger.		

6. SAVE THESE INSTRUCTIONS. This manual contains important safety and operating instructions for battery charger.
7. Before using the battery charger, read all instructions and cautionary markings on (1) the charger, (2) the battery, and (3) the product using battery.
8. The charger is specifically designed to charge the Talon battery as listed in the preceding table. Do not attempt to charge any other battery with this charger.
9. CAUTION: Danger of explosion may happen if battery is incorrectly replaced. Replace only with the same or equivalent type.
10. Do not expose charger to rain or snow. Do not use in damp or wet locations.
11. 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.
12. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
13. Make sure cord is appropriately located so that it will not be stepped on, tripped over, or otherwise subject to damage or stress.
14. Do not operate charger with damaged cord or plug. Please replace them immediately should any damage found.
15. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to an authorized Service Station.
16. Do not disassemble charger; take it to an authorized Service Station when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
17. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
18. Charging must only be performed when the battery temperature is between 32°F (0°C) and 113°F (45°C).
19. The charger vents shall be strictly prohibited to be covered or clogged by any foreign object.
20. The charger is designed to operate on standard household electrical power. Do not attempt to use it on any other voltage!
21. WARNING: The parts inside the charger are live and can create a shock hazard! Do not stick anything in the battery charger terminal slots!
22. Unplug the charger immediately if there is any sign of smoke or flame!
23. Do not drill into the housing of the charger or battery!
24. Keep the charger away from children!

## SAFETY PRECAUTIONS WHEN USING CHARGER AND BATTERY

1. Do not charge battery when temperature is below 32°F (0°C) or above 113°F (45°C). The most suitable temperature for charging is that of 20~25°C(68~77°F).
2. Never attempt to connect two chargers together.
3. The charger is designed to operate on standard household electrical power. Do not attempt to use it on any other voltage.
4. Do not insert foreign matter into the hole reserved for the battery in charger stand.
5. Do not charge by means of an engine generator or DC power source.
6. Do not disassemble the battery and charger by yourself. Incorrect reassembly may result in a risk of electric shock, electrocution or fire. Having the battery and charger repaired by professional engineer.
7. Do not store the tool and battery in locations where the temperature may reach or exceed 140°F (60°C), such as outside sheds or metal buildings in summer.
8. Do not incinerate the battery, even if it is severely damaged or completely worn out. The battery may explode in fire.
9. Battery leakage may occur under conditions of extreme usage or temperature. If liquid comes in contact with skin, wash quickly with soap and water, then lemon juice or vinegar. If liquid gets in your eyes, wash with a strong solution of boric acid and seek medical advice immediately.

10. Never short-circuit the rechargeable battery. Short circuiting the battery will cause a great electric current and over heat. It results in burn or damage the battery.
11. Charge battery only with the charger provided.
12. The battery for this tool has been shipped in a low charge condition, therefore, you should charge it prior to use.
13. Do not insert foreign object into the air ventilation slots of the charger. Inserting metal objects or inflammable into the slots will result in electrical shock hazard or damaged charger.
14. This appliance 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 appliance by a person responsible for their safety.
15. Children should be supervised to ensure that they do not play with the appliance.
16. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
17. Contact your local government for information regarding the collection systems available.
18. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
19. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.
20. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
21. Dispose of batteries properly according to federal, state and local laws. Do not throw battery into a fire! Do not immerse batteries in water! Do not dispose of in landfills!



**WARNING:** If any parts are missing, do not operate tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

## ● DISPOSAL OF THE EXHAUSTED BATTERY



**WARNING:** Do not attempt to disassemble the battery pack. Fire or injury may result.

For safety and to preserve natural resources, please recycle or dispose of properly. This Product Contains Lithium Ion Battery. Must Be Disposed Of Properly. Local, state, or federal laws may prohibit disposal of Lithium Ion batteries in or daily trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

## ● BATTERY PACK PREPARATION FOR RECYCLING






**WARNING:** Upon removal, cover the battery pack's terminals with heavy duty adhesive tape. Do not attempt to destroy or disassemble the battery pack or remove any of its components. Do not touch both terminals with metal objects and body parts, as short-circuit may result. Keep away from children. Failure to comply with these warnings could result in fire and/or serious injury.

This product contains Lithium Ion batteries which must be disposed of properly.

1. Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet.
2. Fully charge the battery for better operation.
3. Be sure the battery is snapped in place.
4. When not in use, lock the switch.
5. When operating at a high place, be aware of things below and around you.
6. Before drilling into walls, ceilings, or floors, ensure that there are no concealed power cables inside.
7. This unit features the overload protection design. When the unit overload or stall, the power would be cut-off automatically. This will protect the motor, switch and battery.
8. This unit features a battery temperature detective sensor. If the battery exceeds the safety working temperature, the unit would shut-off automatically. Once the temperature dropped back to the safe temperature zone, the unit would function normally again.
9. This unit features a battery over-discharge protection system which can prolong the battery's lifespan.

**SPECIFICATIONS**

Model No.	<b>BT-B4181241</b>	
Chuck Capacity	1/2" (13mm)	
Motor	18V No Load Speed	(1) High: 0~2,000/min. (2) Low: 0~500/min.
	Speed adjustment range	1. High: 600~2,000/min. (Speed adjustment is 100 rpm) 2. Low: 250~500/min. (Speed adjustment is 25 rpm)
Max. torque	125 Nm (1,275 kgf-cm)	
Toque clutch adjustment	21 (Screwdriver)	
Action adjustment mode	 Hammer mode  Screwdriver mode  Drill mode	
Blow per minute	0~30,000 BPM Drill capacity	
Drill capacity	in wood: 38mm in steel: 13mm in Masonry: 13mm	
Net weight (w/o battery)	1.66 kg	

**Charger**

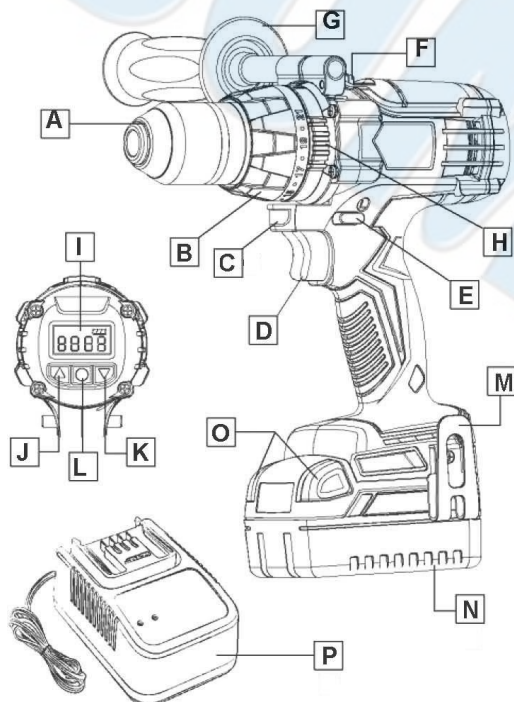
Model No	<b>BC20S21</b>
Input	100V~240V, 50-60Hz, 80W
Charging voltage	20V

**Battery**

Model No	BP2030S21 (3.0Ah) BP2040S21 (4.0Ah) BP2050S21 (5.0Ah)
----------	---

**OPERATION**


**WARNING:** Before attempting to use any tool, make sure your are familiar with all operating features and safety requirements.



- A. Keyless Chuck
- B. Torque Control
- C. LED Light
- D. Trigger
- E. Forward/Reverse Level
- F. 2-Speed Level
- G. Auxiliary Handle
- H. Action Mode Changing Ring
- I. LCD Display
- J. RPM Button "+"
- K. RPM Button "-"
- L. LED Light Button
- M. Belt Hook
- N. Battery Pack
- O. Battery Clip
- P. Charger



## ● INSTALLING OR REMOVING BATTERY PACK

1. Hold the tool and the battery pack firmly when installing or removing battery pack. Failure to hold the tool and the battery pack firmly may cause them to slip off your hands and result in damage to the tool and battery pack and a personal injury.
2. Always switch off the tool before installing or removing of the battery pack
3. To remove battery pack, press the battery clip, and pull out. To install the battery pack, align the tongue on the battery pack with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you. (Fig. 1)

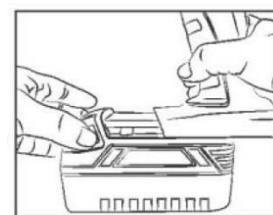
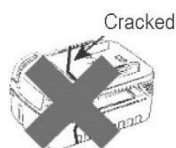


Fig. 1

**NOTE:** Do not use force when installing the battery pack. If the cartridge does not slide in easily, it is not being inserted correctly.

## ● CHARGING THE BATTERY PACK



### **DANGER:**

If battery pack case is cracked or damaged, do not insert into charger. Danger of electric shock or electrocution.

1. The battery pack for this tool is supplied in a low charge condition to prevent possible problems, therefore, you have to charge the battery before first use.
2. Charge battery pack only with the charger provided.
3. Using an other charger can cause severe damage or even cause battery to explode from the work piece and determine the reason for jamming.
4. Connect the charger to a power outlet. Place the battery pack in the charger aligning raised rib on the battery pack with the groove in the charger. (Fig. 2)

### **NOTE:**

- Lithium battery does not have memory effect, therefore to prolong the battery life please fully charged the battery before storage. This will reduce battery self discharging characteristics. If the voltage of the battery is too low, it'll automatically lock itself. If the tool feels lack of power, please stop the operation and charge the battery immediately. If the battery is stored more than 3 months, please charge the battery first before operation.
- If the tool does not function, please clear all debris and restart again. If malfunction continues malfunctions, please remove the battery immediately and contact the local service dealers for assistance.
- The battery pack will become slightly warmer while charging. This is normal and does not indicate a problem.
- Do not place charger in an environment either extreme hot or cold. It will work best at normal room temperature.
- When the battery is fully-charged, unplug your charger from the power supply and remove the battery pack from the charger.



**CAUTION:** To prevent damage to the battery pack, remove the battery pack immediately from the charger when no charger LED lights Return battery pack and charger to your dealer for checking or replacing. Do not insert a battery pack into a damaged charger, it may damage your battery pack.

## ● BATTERY CAPACITY INDICATOR

1. The tool is applied with the battery capacity indicator (A) for easy view. (Fig. 3)
2. Press the trigger to indicator lights will then light. The indicate the battery remaining capacity.
3. Either the indicator light blinks or none indicator lights, the battery capacity has run out, so the tool does not operate. In these cases, charge the battery or replace the dead battery by a fully-charged on.
4. When two or more indicator lights do not light even after charging is complete, the battery has reached the end of its service life.

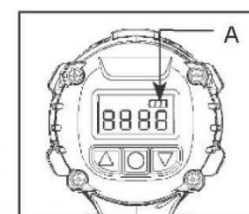


Fig. 3

INDICATOR LIGHTS				Remaining Capacity
Lighted	OFF	Blinking		
F	■	■	E	≥ 75%
■	■	□		≥ 50%
■	□	□		≥ 25%
□	□	■		≤10% (Charge the battery)

**NOTE:**

- The indicated capacity may be lower than the actual level during use of the tool.
- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

● **CHARGER LED INDICATION**

<b>CHARGER STANDBY</b>	Red light steady on	● ○	—	Stand by
<b>WHILE CHARGING</b>	Red and green light steady on	● ●	—	Charging
	Red light blinking	● ○	—	Battery too hot Battery too cold
<b>CHARGING COMPLETE</b>	Red light steady on green light blinking	● ●	—	Full charged
<b>MALFUNCTION BATTERY</b>	Red and Green lights blink alternately	● ●	—	Replace the battery

NOTE: The battery will not reach full charge after the first charge. Allow several cycles (drilling followed by recharging) for them to become fully charged.

● **INSTALLING AND REMOVING THE AUXILIARY HANDLE**

1. When installing the handle bar into the tool assembly, please make sure that it's place in the design slotted area. After the handle bar set is in position, please turn the handle bar set clock-wise to tighten and counter clock-wise to loosen the handle bar set. Please make sure that the handle bar set is properly secured before operation. (Fig. 4)
2. If you need to use the handle bar set, you can rotate the handle bar set to your desire location to improve safety and comfort.

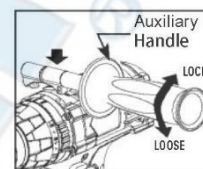


Fig. 4

● **INSTALLING AND REMOVING BITS**



**WARNING:** Before installing or removing bits, place the direction of rotation in center position. This will turn off the power to your drill.

Push in the drill bit as far as possible. Turn the sleeve in the rotation "Grip" until you hear a click. The drill bit is not sufficiently firmly chucked after you have continued turning applying some considerable force-until it any more. (Fig. 5)

Re-chucking maybe necessary if the drill bit shank is rather soft.

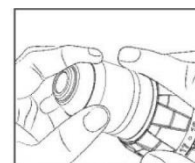


Fig. 5

● **INSTALLING AND REMOVING THE BELT HOOK**



**CAUTION:** When installing the hook, tighten the screw firmly. Failure to do so may cause the breakage of the tool or personal injury.

1. The belt hook is convenient for temporarily hanging the tool. This can be installed on either side of the tool.
2. To install the belt hook, insert it into a groove in the tool housing on either side and then secure it with a screw. To remove, loosen the screw and then take it out. (Fig. 6A & Fig. 6B)
3. After installing the belt hook, make sure that it is screwed firmly.

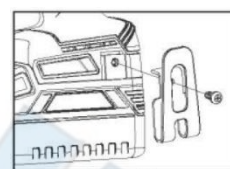


Fig. 6A

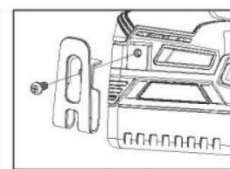


Fig. 6B

● **SPINDLE LOCK**



**WARNING:** Excessive tightening by hand may damage the screw.

The automatic spindle lock enable bits to be changed quickly and easily in the keyless chuck.

The drill spindle id locked when the switch is not pressed or when it is released, so that projecting screws can be screwed in flush by manually rotating the machine.



## ● FORWARD/REVERSE LEVEL



**WARNING:** Do not change the direction of rotation until the chuck comes to a complete stop.

This determines the direction of rotation of the chuck, ie. clockwise or anti-clockwise.

To alter the direction of rotation stop the drill then push the selection lever to the left or right. When the lever is in the "Forward" position the chuck will rotate clockwise. When the lever is in the "Reverse" position the chuck will rotate anti-clockwise. Before operation check that the level is set in the required position. (Fig. 7)

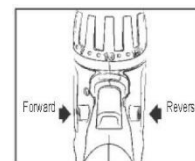


Fig. 7



**WARNING:** Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool. When not operating the tool, always set the reversing switch lever to the neutral position.

## ● TRIGGER

1. To start the tool, simply press the trigger. Tool speed is increased by increasing pressure on the trigger. Release the trigger to stop. (Fig. 8)
2. When the trigger is depressed the chuck will rotate (provided the forward/reverse level is set in the forward or reverse position). The trigger can be locked in the OFF position. This helps reduce the possibility of accidental starting when not in use. To lock trigger, place selection lever in the centre position.

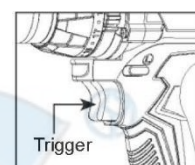


Fig. 8

## ● TWO-SPEED LEVEL



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

The drill has a two-speed level designed for drilling or driving at "High (1)" or "Low (2)" speeds. A slide level is located on top of the drill to select either "High (1)" or "Low (2)" speed. When using drill in the "Low (2)" speed range, speed will decrease and unit will have more power and torque. When using drill in the "High (1)" speed range, speed will increase and unit will have less power and torque. Use "Low (2)" speed for high power and torque applications and "High (1)" speed for fast drilling or driving applications. (Fig. 9)

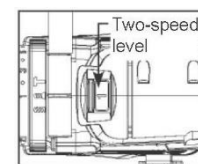


Fig. 9

## ● LED LIGHT



**WARNING:** Don't stare at the LED light, nor put the light illuminates people eyes. If eyes focus on the light for a while, may cause pains.

1. Equipped with a LED light indicated the front of bits.
2. Light can be on with slightly pressing the trigger. (Fig. 10A)
3. To keep the LED light steady, press the middle button (A). The LED will automatically turn off 15 seconds after the tool is stopped. (Fig. 10B)

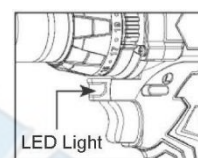


Fig. 10A

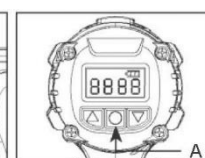


Fig. 10B

## ● SPEED FUNCTION SELECTION

1. Speed "▲" button and speed "▼" Button is used to adjust the motor speed (RPM), which can be applied to different applications, motor speed (RPM) will be wrong due to battery or workload, and the value will be lower than the set value.  
NOTE!! The speed cannot be switched while the tool is running.
2. Before selecting the speed you need, please press the switch trigger to start the tool power.
3. Press the speed "▲" button (A), the speed will increase, press the speed "▼" Button (B), the speed is reduced, positive and negative / high and low speed independent adjustment, The speed adjustment is 100 RPM, and the speed adjustment of the low speed is once by 25 RPM. (Fig. 11)

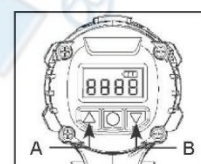


Fig. 11

## ● ACTION ADJUSTMENT MODE



**CAUTION:** Always set the ring correctly to your desired mode mark. If you operate the tool with the ring positioned halfway between the mode marks, the tool may be damaged

1. This tool has three action modes.

- ➔ Hammer mode
- ⚙️ Screwdriver mode
- ⚙️ Drill mode

2. Select one mode suitable for your work. Turn the action mode changing ring and align the mark that you selected with the arrow on the tool body. (Fig. 12)

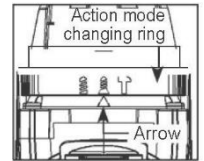


Fig. 12

## ● TORQUE CONTROL

1. Torque adjustment is limited to screw mode, drilling mode and impact mode, it has no effect.
2. By turning the torque adjustment, it is possible to adjust the amount of torque. The torque control prevents the heads of smaller diameter screws being twisted off when correctly set.
3. Fastening torque is greater as the numerals are larger and when set to the drill position the driver/drill has full torque. Overloading and stalling the drill at any time can lead to motor burnout and also dramatically reduces battery life. (Fig. 13)

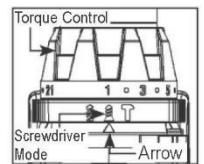


Fig. 13

## ● SCREWDRIVER OPERATION

1. Turn the action mode changing ring so that the arrow on the tool body points to the "⚙️" marking. (Fig. 14)
2. Place the point of the driver bit in the screw head and apply pressure to the tool. Start the tool slowly and then increase the speed gradually. Release the switch trigger as soon as the clutch cuts in.

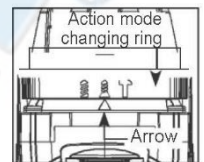


Fig. 14

**NOTE:** When driving wood screw, pre-drill a pilot hole 2/3 the diameter of the screw. It makes driving easier and prevents splitting of the workpiece.

## ● HAMMER DRILLING OPERATION

1. To drill into concrete and masonry, turn the torque adjustment dial to Hammer mode.
2. Turn the action mode changing ring so that the arrow on the tool body points to the "T" marking. (Fig. 15)
3. Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the drill bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

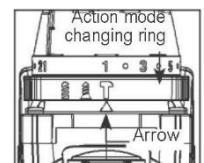


Fig. 15



**CAUTION:** There is a tremendous and sudden twisting force exerted on the tool/drill bit at the time of hole breakthrough, when the hole becomes clogged with chips and particles, or when striking reinforcing rods embedded in the concrete.

## ● DRILLING OPERATION

1. Turn the action mode changing the tool body points to the "⚙️" marking. (Fig. 16)
2. When drilling hard, smooth surfaces, use a center punch to mark the desired hole location. This will prevent the drill bit from slipping off center as the hole is started. However, the lower speed feature allows starting holes without punching if desired.
3. The material to be drilled should be secured in a vise or with clamps to keep it from turning as the drill bit rotates. Hold tool firmly and place the bit at the point to be drilled.
4. Depress the switch trigger to start tool. Move the drill bit into the work piece, applying only enough pressure to keep the bit cutting. Do not force or apply side pressure to elongate a hole. When drilling metals, use a light oil on the drill bit to keep it from overheating. The oil will prolong the life of the bit and improve the drilling action.
5. If the bit jams in the work piece or if the drill stalls, release the switch trigger immediately. Remove the bit from the work piece and determine the reason for jamming.

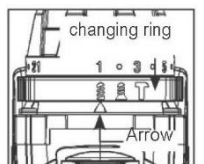


Fig. 16



**WARNING:** Be prepared for binding or breakthrough. When these situations occur, the drill has a tendency to grab and kick in the opposite direction, and could cause loss of control. If you are not prepared, this loss of control can result in possible serious injury.

## MAINTENANCE INFORMATION



**WARNING:** Always be sure that the tool is switched off and battery is removed before attempting to perform inspection or maintenance on the tool. Failure to switch off and remove the battery may result in serious personal injury from accidental start-up.

### ● CLEANING

Remove the battery

1. Keep the air vents free of obstructions. Do not spray, wash, or immerse the air vents in water
2. Wipe off the housing and the plastic components using a moist, soft cloth. Do not use strong solvents or detergents on the plastic housing or plastic components. Certain household cleaners may cause damage, and may cause a shock hazard.

### ● MAINTENANCE

1. Place switch in OFF position and remove the battery before the appliance is serviced, cleaned, or maintenance is performed.
2. Check if device loose, parts damaged such.
3. Please storage locked tools in dry location where the children cannot touch when you didn't use tool.
4. Only use recommended spare parts and accessories from manufacturer for replacement.
5. Before and after using, check and maintain tools regularly. Fix tool via our authorized center.
6. Keep hands dry, clean and no greasiness and lubricant.
7. Please don't install battery pack into tool when storage.





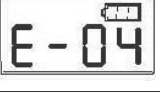




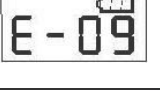

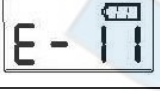

**WARNING:** Always wear safety goggles or safety glasses with side shields when operating tool. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.



**WARNING:** Read all instructions Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cord-less) power tool.

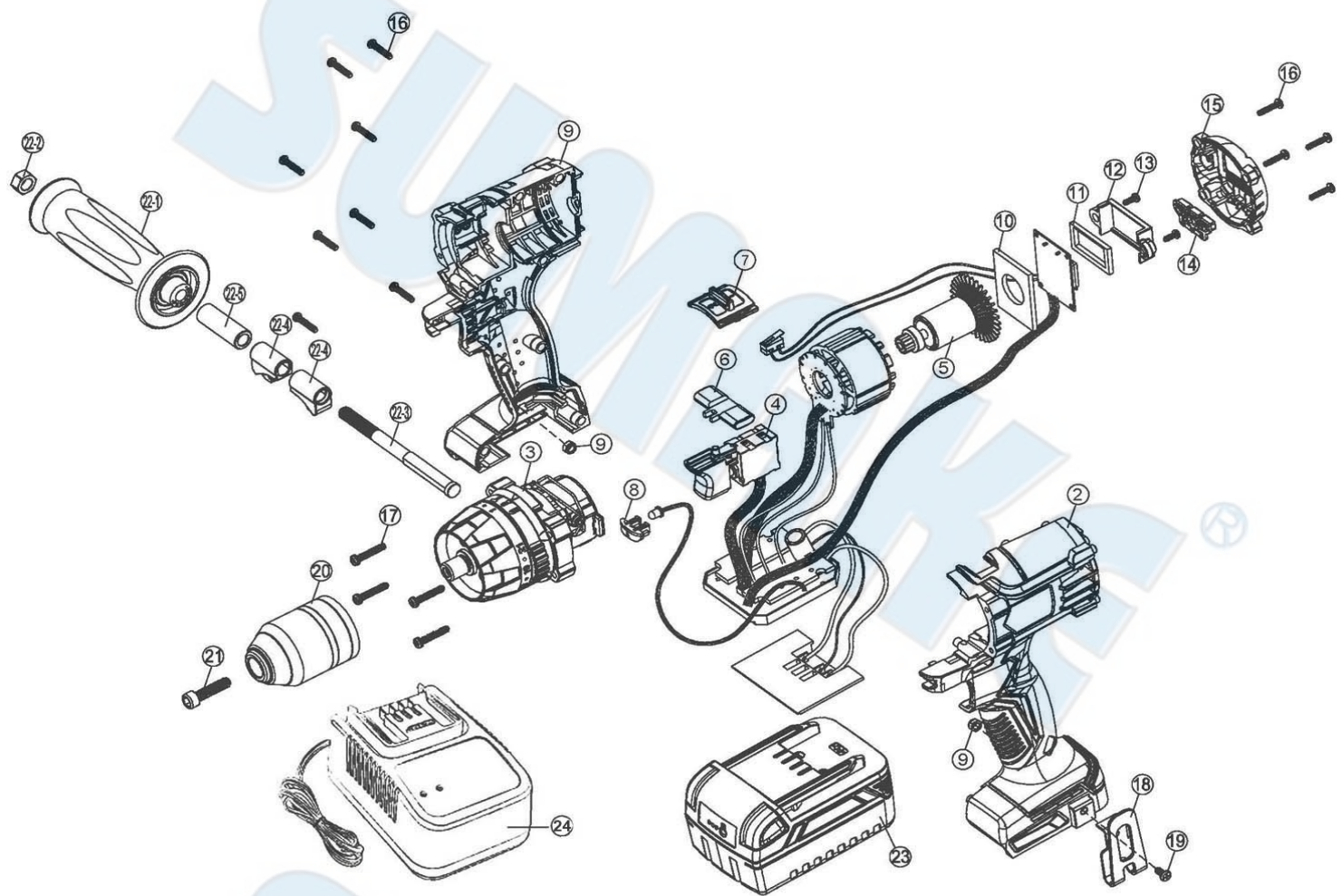


## TROUBLESHOOTING

FAULT STATU	CAUSE	MEASURE
	Low voltage when the motor	Check the battery indicator. Please charge if there is insufficient power.
	Low voltage when the motor	Check the battery indicator. Please charge if there is insufficient power.
	Overvoltage when the motor	Check the battery indicator. Charge if there is insufficient power.
	When the motor starts, the battery is	Replace the battery and let the battery cool down.
	Battery over heat when the motor	Replace the battery and let the battery cool down.
	Motor overcurrent.	Replace the battery and restart.
	Battery low temperature or temperature detector disconnected.	Please send it to your local authorized service center for repair.
	MOS over heat when the motor	Restart after cooling down.
	MOS over heat when the motor starts.	Restart after cooling down.
	MOS low temperature or temperature detector disconnected.	Please send it to your local authorized service center for repair.
	When the motor is running, the control IC detects an abnormality.	If the restart is still abnormal, please send it to your local authorized service center for repair.

# BT-B4181241

## 18V CORDLESS BRUSHLESS 1/2"(13MM) IMPACT DRILL



### PARTS LIST

No.	Parts No.	Description	Q'ty	No.	Parts No.	Description	Q'ty
1	BTB4181241-01	Housing (R)-Blue	1	16	BTB4181241-16	Screw	12
2	BTB4181241-02	Housing (L)-Blue	1	17	BTB4181241-17	Screw	4
3	BTB4181241-03	Gear Box Ass'y	1	18	BTB4181241-18	Belt Hook	1
4	BTB4181241-04	Motor & Controller Ass'y	1	19	BTB4181241-19	Screw	1
5	BTB4181241-05	Armature Ass'y	1	20	BTB4181241-20	Chuck	1
6	BTB4181241-06	R/L Knob	1	21	BTB4181241-21	Chuck Screw	1
7	BTB4181241-07	H/L Speed Knob	1	22	BTB4181241-22	Handle Ass'y	1
8	BTB4181241-08	Led Holder	1	22-1	BTB4181241-23	Handle	1
9	BTB4181241-09	Nut	2	22-2	BTB4181241-24	Nut	1
10	BTB4181241-10	Sponge	1	22-3	BTB4181241-25	Screw	1
11	BTB4181241-11	Sponge	1	22-4	BTB4181241-26	Hook	2
12	BTB4181241-12	Cover	1	22-5	BTB4181241-27	Thrust Plate	1
13	BTB4181241-13	Screw	2	23	BP2040S21	20V 4.0Ah Battery Pack	1
14	BTB4181241-14	Button	1		BP2050S21	20V 5.0Ah Battery Pack	1
15	BTB4181241-15	Rear Cover	1	24	BC20S21	20V Battery Charger	1

# EU Declaration of Conformity (DOC)

We: **SUMAKE INDUSTRIAL CO., LTD.**

**4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan**

declare in sole responsibility that the equipment

Equipment : **BATTERY CHARGER**

Model/ Serial No. : **BC20S21**

The object of the declaration described above is in conformity with the relevant union harmonization legislation:

- Electromagnetic Compatibility 2014/30/EU
- Low Voltage Directive 2014/35/EU
- RoHS 2011/65/EU

The following harmonised standards and technical specifications have been applied:

- EN 55014-1:2017
- EN 55014-2:2015
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 62233:2008

Name and Signature/Position



Mike Su – Managing Director

Date and Place

2020/3/31

Taipei, Taiwan

BC20S21-D-2004A-J5F





## EC DECLARATION OF CONFORMITY

We: **SUMAKE INDUSTRIAL CO., LTD.**

**4F, No. 351, Yangguang St., Neihu District, Taipei City, Taiwan**

declare in sole responsibility that the equipment

Equipment : **CORDLESS BRUSHLESS 1/2"(13MM) IMPACT DRILL**

Model/ Serial No. : **BT-B4181241**

to which this declaration applies, complies with these normative documents:

- **Machinery Directive 2006/42/EC**
- **Electromagnetic Compatibility 2014/30/EU**
- **RoHS 2011/65/EU**

Applicable harmonized standard(s):

- **EN 62841-1:2015+AC:2015**
- **EN 62841-2-1:2018**
- **EN 55014-1:2017**
- **EN 55014-2:2015**

Data:

**Noise level:**

Sound pressure level: No Load 80 dB(A)

Sound power level: No load: 91 dB(A)

**Vibration level:**

Load < 2.5 m/s<sup>2</sup>

Name and Signature/Position

**Mike Su – Managing Director**

Date and Place

**2020/3/31**

**Taipei, Taiwan**

**NOTE**

SUMAKE®

SUMAKE®