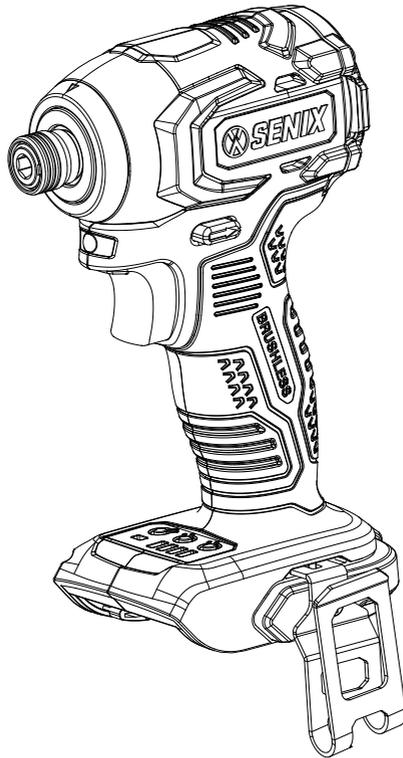




X2 **18V** **Li-ion** **BRUSHLESS**[™]
LITHIUM-ION

CORDLESS IMPACT DRIVER



CAUTION: Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

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SAFETY & INTERNATIONAL SYMBOLS

Explanation of Safety & international symbols describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.



Caution / Warning.



To reduce the risk of injury, user must read instruction manual.



Wear eye protection.



Wear a dust mask.



Wear safety footwear.



Wear protective gloves.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.



Use the battery in a maximum temperature of 50°C (122°F).



Do not disassemble, crush, heat above 100°C (212°F); Never expose the battery to microwaves or high pressures.



Keep bystanders a safe distance away from the work area.



Indoor use only. Only use battery charger indoors.



RCM Mark

SAFETY INSTRUCTIONS

GENERAL POWER TOOL SAFETY WARNINGS



WARNING!

Read all safety warnings, instructions, illustrations and specifications, provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

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

2) Electrical safety

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

shock.

- f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*
- #### 3) Personal safety
- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
 - b. **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.*
 - c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
 - d. **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
 - e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
 - f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*
 - g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*
 - h. **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.*

4) Power tool use and care

- a. **Do not force the power tool. Use the**

correct power tool for your application.

The correct power tool will do the job better and safer at the rate for which it was designed.

- b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
 - c. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
 - d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
 - e. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
 - f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
 - g. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
 - 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.*
- 5) Battery Tool Use And Care**
- a. **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*
 - b. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
 - c. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*
 - d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** *If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.*
 - e. **Do not use a battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour 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 130 °C 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.*
- 6) Service**
- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*
 - b. **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers.*

SAFETY RULES FOR IMPACT DRIVER

- a. Hold power tools by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire will make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- b. Maintain labels and nameplates on the tool. These carry important safety information.
- c. Avoid unintentional starting. Prepare to begin work before turning on the tool.

- d. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- e. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- f. Do not leave the tool unattended when the battery pack is connected. Turn off the tool, and remove the battery pack before leaving.
- g. This product is not a toy. Keep it out of reach of children.

SAFETY WARNING FOR BATTERY PACK AND BATTERY CHARGER

- 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 appliances only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.



WARNING!

Only use following batteries: B20X2/B25X2/B40X2/B50X2/B60X2/B80X2 and chargers: CHX2/CHQX2/CHQX2-M-EU/CHDX2-M-EU.

- 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.
- 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. (This advice is considered correct for conventional NiMH, NiCd, lead acid and lithium-ion cell types. If this advice is incorrect for a cell design that differs from these, then the correct advice may be substituted.)
- Do not use a battery pack or appliance that is damaged or modified. Damaged

or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

- Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or appliance outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.

VIBRATION + NOISE REDUCTION

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account to minimise the vibration and noise exposure risks.

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well maintained.
- Use correct attachments for the product and ensure they are in good condition.
- Keep tight grip on the handles/grip surface.
- Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
- Plan your work schedule to spread any high vibration tool use across a longer period of time.

EMERGENCY

Familiarize yourself with the use of this product by means of this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

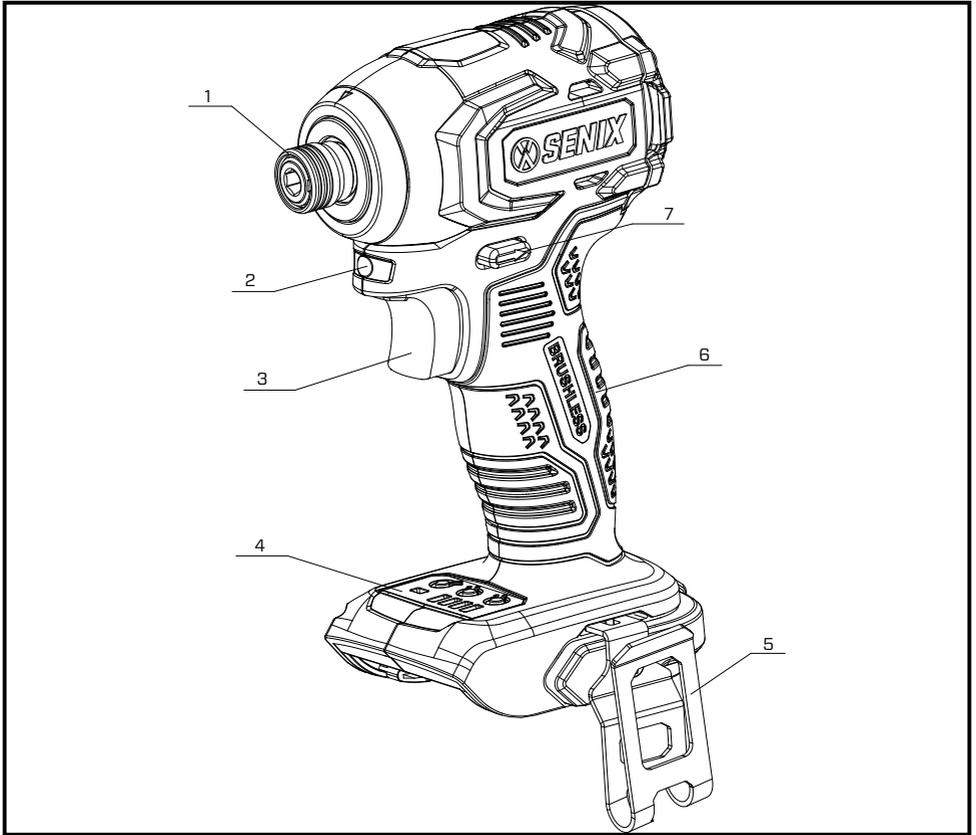
- Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
- Switch off the product and remove the

battery pack if there are malfunctions.
Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

INTENDED USE

This 18V product is intended for drilling in wood and metal materials with drill bits and driving screws into wood and drywall with scwdriver bits. Do not use it for other purposes.

KNOW YOUR UNIT



APPLICATIONS

Model: PDIX2-M2-EU

As a cordless impact driver:

Driving in or loosening screws and bolts.

1	Auto-Load Hex Collet
2	Work Light
3	Variable Switch Trigger
4	Control Panel
5	Belt Clip

6	Handle
7	Direction Selector

SPECIFICATIONS*

Model	PDIX2-M2-EU
Rated Voltage	18 V \approx (20 V \approx Max*)
No Load Speed	0-1100/0-2100/ 0-3000/0-3300 RPM
Impact per minute	0-1100/0-2600/ 0-3600/0-3800 IPM
Max. Torque	180 Nm
Driving Size	6.35 mm
Fastening Capacities	
Machine Screw	M4-M8
Standard Bolt	M5-M16
High Tensile Bolt	M5-M12
Weight (Tool Only)	0.9 kg

*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.

ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant:
Model of PDIX2-M2-EU
 - Impact Driver x1
 - Belt clip x1
 - Instruction manual x1
4. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.



WARNING:



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling. Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product! Do not insert the battery pack before the power tool is completely assembled or adjusted!

BELT CLIP

Secure the belt clip on the tool by a screw.

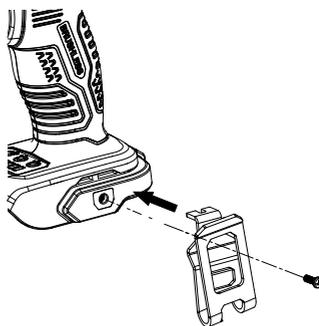


Fig. 1

DRIVER BIT



WARNING:

Observe the technical requirements of this product (see section "SPECIFICATIONS") when purchasing and using application tools (e.g. adapter for wrench socket or screwdriver bits).

Always use suitable application tool according to the intended use.

Always hold the product firmly in the hand while assembling application tool.

To install:

Insert a suitable bit as far as possible into the collet. Pulling the collar forward is not necessary for the bit to be accepted. Pull the bit outward to make sure it is secured.

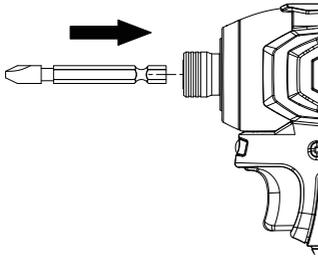


Fig. 2

To remove:
Pull the collar forward, remove the bit from collet then release the collar.

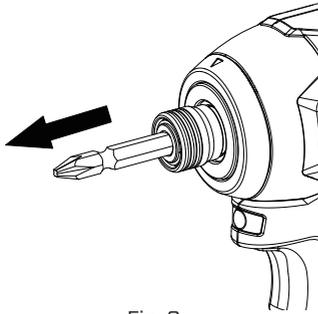


Fig. 3



NOTE:

Make sure the bit is fixed firmly and will never comes out before use.

BATTERY PACK



NOTE:

Prior to installation, lock the trigger by trigger lock to avoid unintentional start.

To install:
Align and slide the battery pack to the docking port until it is locked in place.

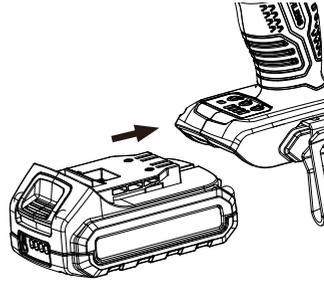


Fig. 4

To remove:
Press the release button on battery pack and slide the battery pack out.

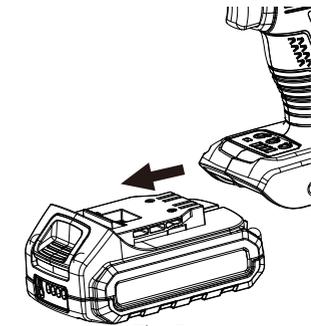


Fig. 5

OPERATION



WARNING:

Always wear eye, hearing, hand protection to reduce the risk of injury when operating the tool. Keep all parts of your body away from the rotating bit.

RUNNING DIRECTION

The tool is designed to loosen or tighten fasteners. Press the direction selector to achieve different using purposes.



WARNING:

Do not change direction of rotation while collet is rotating.

Mode	Setting	Application
Forward	Shift to left side	Drilling/ fastening
Reverse	Shift to right side	Loosening jammed fasteners
Center Lock	Shift to middle position	Locking the trigger

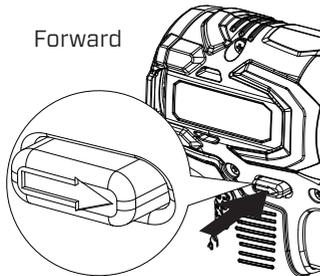


Fig. 6

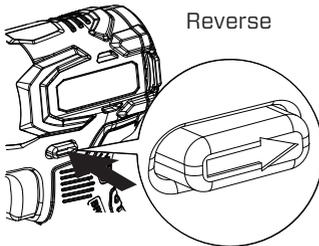


Fig. 7



NOTE:

When changing bits or when the tool is not in use, the direction selector shall be kept in "locked" position to avoid unintended start.

VARIABLE SWITCH TRIGGER

Press the remove trigger to start tool. The further you press, the higher the speed the tool with reach.

ROTATION SPEED

Different rotation speeds can be achieved by pressing button 1 on the control panel. Find details in the below table.

Press	Indicator	Speed
Once		0-1100 RPM
Twice		0-2100 RPM
Three times		0-3000 RPM
Four times		0-3300 RPM



NOTE:

The tool will keep the latest setting after restarting or battery reinstallation.

WORK LIGHT

The driver is designed with a work light controlled by button 2 for providing sufficient brightness around driving bit.

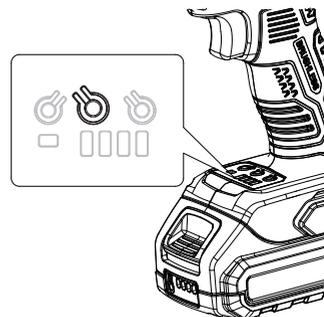


Fig. 8

REVERSAL AUTO-STOP

Press button 3 to enable or disable auto-stop while in reverse mode. The indicator shows

green when it is activated and the tool stops automatically after the fasteners get enough loosened for preventing fasteners from falling off.

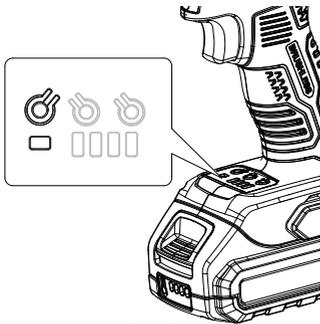


Fig. 9



NOTE:

Reversal Auto-Stop can only be engaged when the tool is set to reverse mode.

OVERHEAT PROTECTION

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

OVERDISCHARGE PROTECTION

When the battery capacity is below a safe level, the tool stops automatically. If this occurs, remove the battery from the tool and charge the battery.

WORK AREA SET UP

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Secure loose pieces using a vise or clamps (not included) to prevent movement while working.
3. There must not be objects, such as utility lines, nearby that will present a hazard while working.

PRACTICAL ADVICE

1. Ensure the correct tool is being used for

the application and that all controls are set in the correct position.

2. Always hold the product perpendicular to the work area. Holding it at an angle may cause slipping, jamming, or damage to the tool, fastener, or work area.
3. Always place the tool in position before switching the product on.
4. Start with low speed until the screw penetrates the work area perpendicularly or the bolt is properly fitted along the thread.
5. Before screwing larger, longer screws into hard materials, it is advisable to pre-drill a pilot hole with the core diameter of the thread to the entire screw length.
6. Apply proper feeding force to keep the fastener connected. Excessive feeding force will not increase working effectiveness and can increase the risk of loss of control.
7. If the fastener gets stuck in the work area, switch the power tool off, switch to reverse rotation mode, and press the trigger slightly to loosen the fastener.
8. Check the tool regularly during work. Refit or replace it if necessary.



WARNING:

Do not use the power tool like a hand screw driver or wrench, this could damage the spindle lock in the power tool.

MAINTENANCE



WARNING:

Only perform cleaning and maintenance work according to these instructions! All further works must be performed by a qualified specialist!



WARNING:

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure the trigger is locked and battery pack is removed before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipments. If abnormal noise or vibration occurs, have the problem corrected before further use.

There are no user-serviceable parts in your power tool.

If any of following condition are found, stop using it and send it to the authorized service center for repair.

- leaking, swollen, or cracked battery pack
- loose hardware
- misalignment or binding of accessories.
- cracked or broken parts.
- any other condition that may affect its safe operation.

CLEANING

1. Clean dust and debris from air vents.
2. Keep handle clean, dry and free of oil or grease.
3. Make sure the collet is not clogged with debris.
4. Remove stubborn dirt from housing with high pressure air (max. 3 bar).



NOTE:

Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

TRANSPORTATION

1. Only carry by its handle.
2. Protect from any heavy impact or strong vibrations which may occur during transportation in vehicles.
3. Secure to prevent it from slipping or falling over.

STORAGE

1. Clean thoroughly as described above.
2. Store in a dark, dry, frost-free and well-ventilated area that is inaccessible to children. Store the battery within a temperature range of 0°C - 25°C.
3. Use original package for storage or cover with a suitable cloth to protect it against dust.



NOTE:

To prolong battery life, store the battery pack separately from the tool in a 30%-50% charged condition. It's recommended to have your battery pack charged at least every 6 months.

DISPOSAL

Waste product should not be disposed of with household waste. Please recycle where facilities exist.

Check with your local authority or retailer for recycling advice.

Debris or dust may produced by the tool during operation, users should clean these objects to protect environment.



Electrical products should not be discarded with household products. Used electrical products must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Product does not start	Direction selector at center lock position	Push direction selector to proper side
	Battery pack is not properly attached	Attach properly
	Battery pack is completely discharged	Charge the battery pack
Product does not reach full power	Battery pack power is too low	Charge the battery pack
	Battery pack reaches its life cycle	Replace with new battery pack
Unsatisfactory result	Drill/driver bit is dull/damaged	Replace with new one
	Driver bit/ socket bit is not suitable for intended operation	Use proper one

