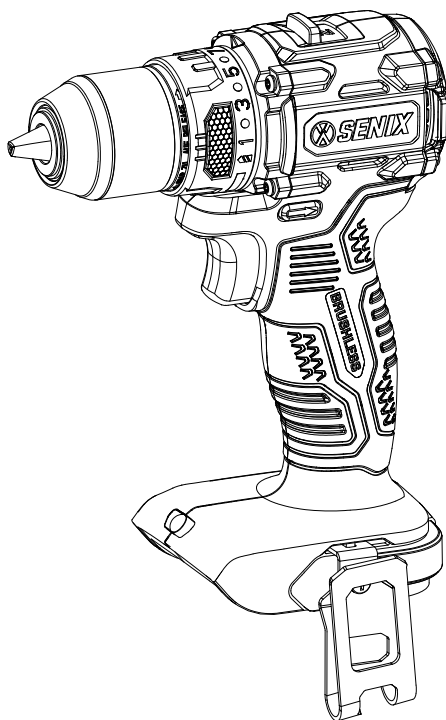




X2 **18V** **Li-ion** **BRUSHLESS**
LITHIUM-ION

CORDLESS 60NM COMPACT DRILL/DRIVER



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

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

Senix Australia Pty Ltd. 32/3 Westside Avenue, #Port Melbourne, Victoria, 3207
For customer support, please call 1300 461 825 or email us at info@senixtool.com

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SAFETY & INTERNATIONAL SYMBOLS

The following table depicts and describes safety and international symbols and pictographs that may appear on this product. Read, understand, and follow all instructions on the machine and in the instruction manual for complete safety, assembly, operating, maintenance, and repair information before attempting to assemble and operate.



Caution / Warning.



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



Wear eye protection.



Wear a dust mask.



Wear hearing protection.



Wear protective gloves.



Do not use in rain or wet conditions.



Indoor use only. Only use battery charger indoors.



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



Crossed out dust bin. Batteries and battery packs should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



RCM Mark.

SAFETY INSTRUCTIONS

ORIGINAL 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 lose control of the tool or workpiece.

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 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 the risk of 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 energizing 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. Always keep proper footing and balance.** *This enables better control of the power tool in unexpected situations.*
- f. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** *Loose clothes, jewelry, 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, tool bits, etc. in accordance with these instructions, considering 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 such as paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, seek additional 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 212°F (100°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 an authorized service provider 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.

DRILL SAFETY WARNINGS

1. **SAFETY INSTRUCTIONS FOR ALL OPERATIONS**
 - a. **Hold the power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
2. **SAFETY INSTRUCTIONS WHEN USING LONG DRILL BITS**
 - a. **Never operate at higher speed than the maximum speed rating of the drill bit.** *The bit is likely to bend at higher speeds if allowed to rotate freely without contacting the workpiece. This can result in an increased risk of personal injury.*
 - b. **Always start drilling at low speed and with the bit tip in contact with the workpiece.** *The bit is likely to bend at higher speeds if allowed to rotate freely without contacting the workpiece. This can result in an increased risk of personal injury.*
 - c. **Apply pressure only in direct line with the bit and do not apply excessive pressure.** *Bits can bend and break, resulting in loss of control and personal injury.*

VIBRATION AND 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 minimize the vibration and noise exposure risks:

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

period of time.

7. Prolonged use of the product exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS) e.g. fingers going white; as well as specific diseases such as carpal tunnel syndrome.
 - To reduce this risk when using the product, always wear protective gloves and keep your hands warm.
 - The symptoms of HAVS include any combination of the following: Tingling and numbness in the fingers; Not being able to feel things properly; Loss of strength in the hands; Fingers going white (blanching) and becoming red and painful on recovery (particularly in the cold and wet, and probably only in the tips at first). Seek medical advice immediately if such symptoms are experienced.

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.

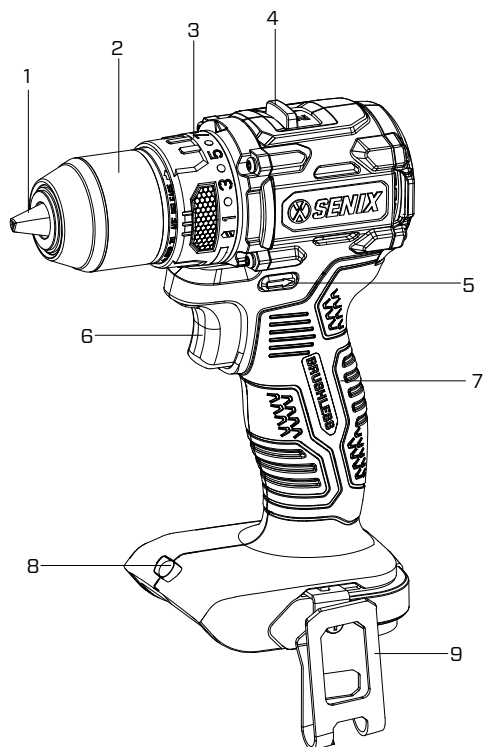
1. Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
2. Switch off the product and remove the battery pack if there are malfunctions. Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

SAVE THESE INSTRUCTIONS

INTENDED USE

This tool is intended for drilling in wood, metal, and other materials using drill bits, as well as driving fasteners into these materials using driving bits. Do not use it for other purposes.

KNOW YOUR UNIT



APPLICATIONS

Model: PDDX2-M4-EU

As a cordless drill/driver:

Drilling in all types of wood, metal, and other materials using drill bits.

Driving fasteners into wood, metal, and other materials using driving bits.

1	Chuck Jaws
2	Keyless Chuck
3	Clutch Collar
4	Gear Selector Switch
5	Direction Selector Switch

6	Variable Speed Trigger
7	Overmold Grip Area
8	LED Light
9	Belt Clip

SPECIFICATIONS*

Model	PDDX2-M4-EU
Rated Voltage	18 V $\approx$ (20 V $\approx$ Max*)
Motor Type	Brushless
No-Load Speed	0-550 RPM /0-2200 RPM
Max. Torque	60 Nm
Clutch Settings	20+1
Max. Chuck Capacity	13 mm
Drilling Capacity	Steel: 13 mm Wood: 34 mm
Recommended Operating Temperature	-20°C - 40°C
Recommended Storage Temperature	-20°C - 70°C
Weight (Tool Only)	0.99 kg
Sound Pressure Level L_{PA}	80.9 dB(A)
Sound Power Level L_{WA}	88.9 dB(A)
Uncertainty K_{WA}	5 dB(A)
Vibration Emission Value $a_{h,D}$	1.887 m/s ²
Uncertainty K	1.5 m/s ²

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



NOTE:

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

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.
 - Compact drill/driver x1
 - Phillips driving bit x1
 - Belt clip x1
 - Screw x1
 - Instruction manual x1
4. If you find that parts are missing or show damage do not use the product and 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!

INSTALLING THE BELT CLIP

Secure the belt clip on the tool using the included screw.

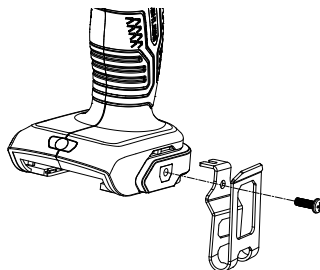


Fig. 1

INSTALLING /REMOVING THE BIT

WARNING!

Observe the technical requirements of this product (see section “SPECIFICATIONS”) when purchasing and using bits. Always use special bits according to the work to be performed. The chuck and the bit can be very hot after working. Do not assemble/disassemble them before cooling down.

To install:

Turn the chuck counterclockwise to fully open the jaws. Align and insert the bit as far as it will go into the chuck. Then, turn the chuck clockwise so that the jaws bite into the bit and it is firmly secured within the chuck.

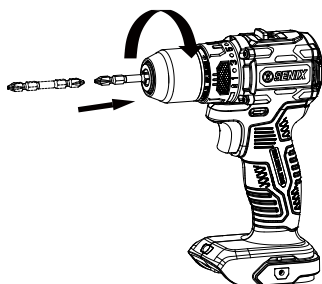


Fig. 2

To remove:

Turn the chuck counterclockwise to open the jaws and remove the bit from the chuck.

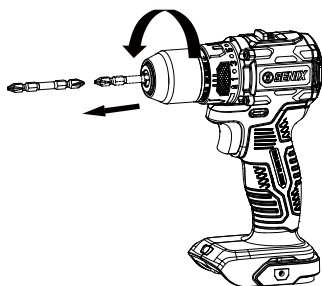


Fig. 3

WARNING!

Make sure the bit is firmly secured within the chuck before use.

INSTALLING/REMOVING THE BATTERY PACK

NOTE:

Prior to installation, lock the trigger using the direction selector switch to avoid unintentional start.

To install:

Align and slide the battery pack to the docking port of the tool until it is locked in place.

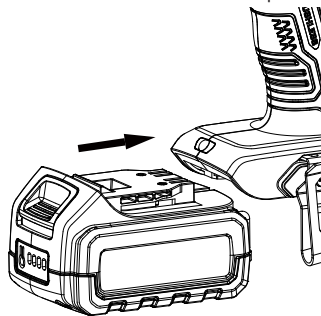


Fig. 4

To remove:

Press the battery release button on the battery pack and slide the battery pack out.

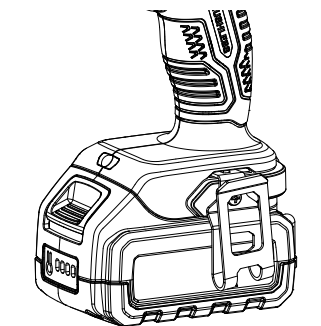


Fig. 5

NOTE:

The recommended charging temperature range for the battery pack is 4°C - 40°C.

NOTE:

Refer to the manuals for the charger and battery pack for more details.

OPERATION



WARNING!

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

DRIVING DIRECTION

The motor rotates the chuck clockwise or counterclockwise to drive the bit forward and backward into the workpiece. This is controlled by the direction selector switch.



WARNING!

Do not change driving direction while chuck is rotating.

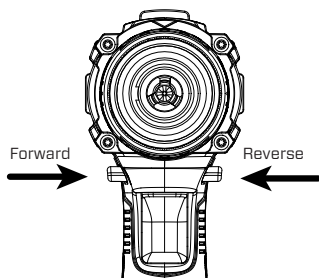


Fig. 6

Mode	Application
Forward	Driving fasteners and drill bits
Reverse	Loosening fasteners and reversing drill bits
Center Lock	Locking the trigger



NOTE:

When changing bits or when the tool is not in use, lock the trigger using the direction selector switch to avoid an unintentional start.

TORQUE CONTROL

20 clutch positions are available for precise torque control when driving fasteners. Rotate the clutch collar to the desired position as indicated by the arrow on the tool. The tool will stop driving once maximum torque is reached within the workpiece.

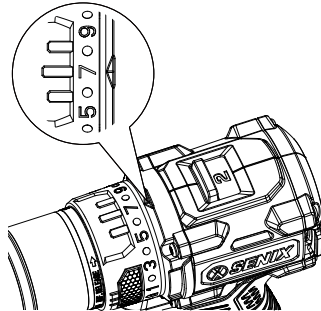


Fig. 7



NOTE:

The torque required depends on the type and size of the fastener being driven, as well as the workpiece material.

The “” position on the clutch collar is intended for drilling into wood, metal, and other materials. The tool will output maximum torque in this position and will not stop driving the bit until it binds or the trigger is released.

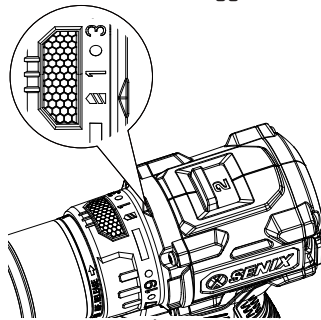


Fig. 8

SPEED CONTROL

Mode	Setting	Speed
Low	1	0-550 RPM
High	2	0-2200 RPM

The tool can achieve its maximum speed when the gear selector switch is set to the “2” position.

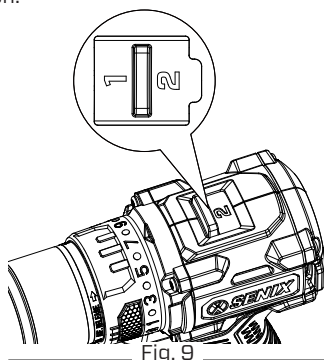


Fig. 9



WARNING!

Only engage the gear selector switch when the power tool has come to a complete stop.

SWITCHING ON/OFF

1. Push the direction selector switch left or right.
2. Pull the trigger to start the tool. The LED light will automatically turn on when the trigger is engaged. Driving speed will increase with additional pressure on the trigger.
3. Release the trigger to stop the tool. The LED light will automatically turn off a few seconds after the trigger is released.

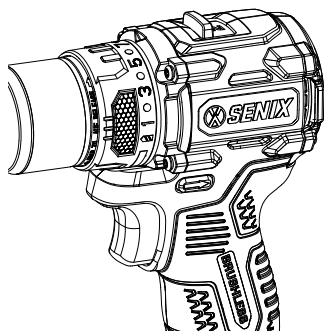


Fig. 10

WORKPIECE AND WORK AREA SETUP

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 workpieces 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) General

- a. Ensure the tool is fitted with a suitable bit for the current task and the direction selector is at center lock position before start.
- b. Always keep the drill perpendicular to the workpiece. Otherwise, bit is more likely to slip or become jammed and cause damage to the tool.
- c. Place the drill in a starting position and gradually pull the trigger until the desired speed is reached.
- d. The necessary force and running speed applied depends on tool characteristics and the workpiece material. Applying excessive force will overload the power tool and increase the risk of losing control. Ask a power tool specialist for advice if necessary.
- e. If the bit gets stuck in workpiece, switch off and try to perpendicularly draw it out with slight force to avoid damage. If this does not work, switch to reverse mode, run the tool at a slow speed and perpendicularly draw the bit out with slight force.
- f. Check the drill and its chuck regularly during work. Refit or replace it if necessary.

2) Drilling

- a. Insert a bit designed for drilling the specific workpiece material and set the chuck collar to the “” position.
- b. Pre-drill larger holes using a smaller diameter drill bit in advance for easier operation and better results.
- c. Use a punch (not included) to mark the point on the workpiece where you will begin drilling. This is especially helpful when drilling metals as it will help to prevent the bit from slipping.
- d. Begin drilling at a low speed, and gradually increase speed as the drill bit bites into the workpiece.
- e. Place a block or backstop behind the workpiece when drilling completely

through to prevent damage as the bit exits the material.

- f. If necessary, use a cooling lubricant when drilling metal.

3) Fastener Driving

- a. Insert a driving bit and select the corresponding position on the clutch collar for the torque necessary to drive the fastener into the workpiece.
- b. Pre-drill a hole using a drill bit with a slightly smaller diameter than the fastener being driven for easier operation and better results.
- c. Hold the drill perpendicular to the fastener head and keep the tip of the driving bit well fitted into the recesses of the fastener.
- d. Begin driving at a low speed, and gradually increase speed as the fastener bites into the workpiece.
- e. If a fastener becomes jammed in the workpiece, switch the drill to reverse driving mode to remove it. Adjust your method accordingly using a different technique or fastener.

MAINTENANCE



WARNING!

Only perform cleaning and maintenance according to these instructions! Any additional work must be performed by an authorized service center.



WARNING!

TO PREVENT SERIOUS INJURY FROM

ACCIDENTAL OPERATION: Make sure the battery pack is removed before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment.

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 the following conditions are found, stop using it and send it to an 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

- Clean dust and debris from air vents.
- Keep handle clean, dry and free of oil or grease.
- Make sure the chuck and the jaw are not clogged by debris.
- Remove dirt from housing with high pressure air (max. 3 bar).



WARNING!

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

- Only carry the product by its handle.
- Secure the product properly when transporting.

STORAGE

- Clean thoroughly as described above.
- Store in a dark, dry, frost-free and well-ventilated area that is inaccessible to children. The ideal storage temperature is between 50°F(10°C) and 86°F(30°C).
- Use original package for storage or cover with a suitable cloth to protect it against dust.



NOTE:

It's best to store the battery pack at the temperature of 10°C - 26°C.

DISPOSAL

Unwanted product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. Users should clean up dust generated during operation 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 users can fix themselves. Therefore, troubleshoot 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 locking position	Push the direction selector to proper side
	Battery pack not properly attached	Remove from product and reattach
	Battery pack discharged	Charge the battery pack
Product does not reach full power	Battery pack capacity too low	Charge the battery pack
	Battery pack reaches its life cycle	Replace with a new one
	Incorrect torque setting	Adjust to a proper torque setting
Unsatisfactory result	Drill/driver bit is dull or damaged	Replace with a new one.
	Drill/driver bit is not suitable for intended operation	Use a proper drill/driver bit