



**SX3000
SX4000**

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Cordless Drill / Driver SX3000 / SX4000

Technical Data

Cordless Drill/ Driver	SX3000	SX4000
Voltage	V 12	14.4
No Load Speed	RPM 0-400/0-1,300	0-400/0-1,300
Max. Torque	Nm 21	25
Drilling Capacity - Wood / Steel - Screw	mm 25/10 Ø7 mm x 80mm	25/10 Ø8mm x 80mm
Chuck Capacity	mm 1.0-10	1.0-10
Weight (excl. battery)	kg 1.0	1.1
Battery		
Voltage	V 12	14.4
Capacity	Ah 2.1	2.1
Weight	g 615	715
Charger		
Approx. Charging Time	Hour 0.5	0.5
Weight	kg 0.45	0.45

Intended Use

Your Black & Decker drill / screwdriver has been designed for screwdriving applications and for drilling wood, metal and plastics.
This tool is intended for consumer use only.
Your Black & Decker charger has been designed for charging Black & Decker batteries of the type supplied with this tool.

Safety Instructions

When using power tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock, personal injury and material damage. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place!

The following symbols are used throughout this manual:

- ⚠ Donates risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.
- ⚡ Denotes risk of electric shock.
- 🔥 Fire hazard.

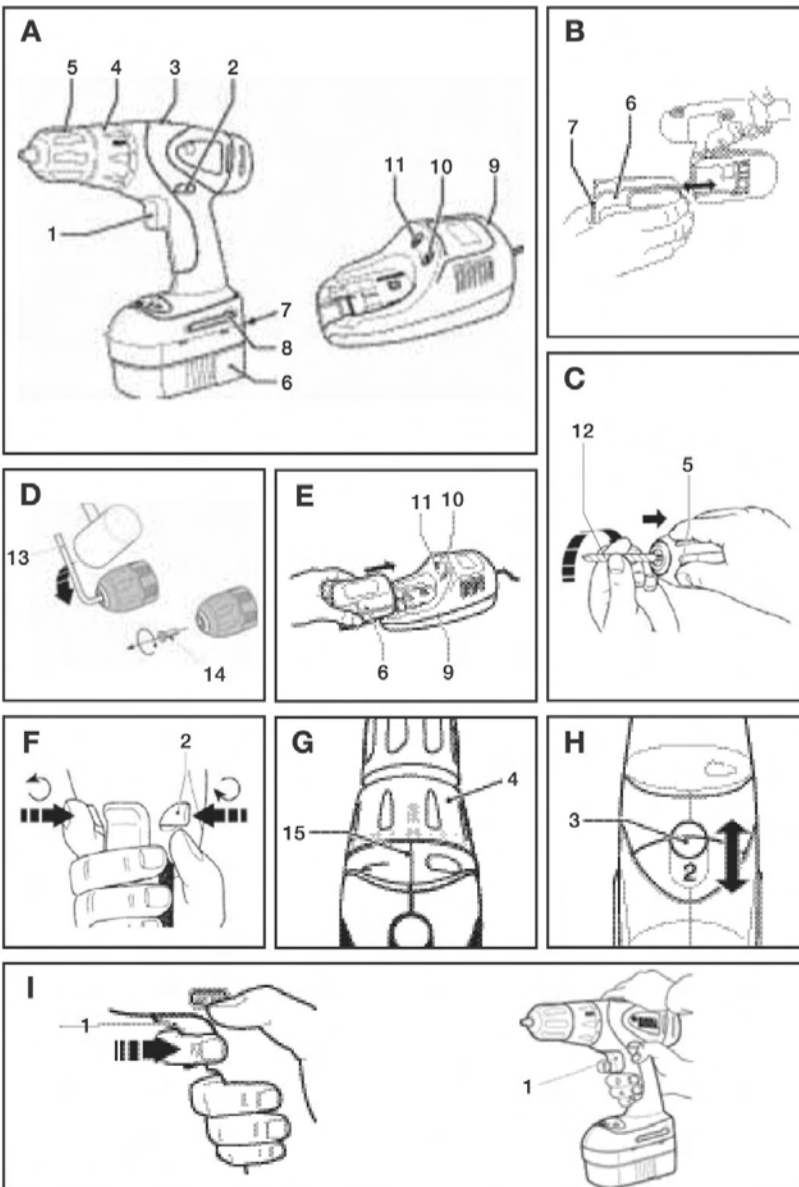
1. **Keep work area clean.** Cluttered areas and benches can cause accidents.
2. **Consider work area environment.** Do not expose power tool to humidity. Keep work area well lit (250-300 Lux). Do not use Power Tools in the presence of inflammable liquids or gases.
3. **Keep children away.** Do not let children come into contact with the tool or extension cord. Keep all people away from the work area.
4. **Dress properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Preferably wear rubber gloves and non-slip footwear when working outdoors. Wear protective hair covering to keep long hair out of the way. When working outdoors, preferably wear suitable gloves and non-slip footwear.
5. **Personal protection.** Always use safety glasses. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. Use a face or dust mask whenever the operations may produce dust or flying particles. If these particles might be considerably hot, also wear a heat-resistant apron. Wear ear protection whenever the sound level seems uncomfortable, i.e. if the sound pressure stated in this manual exceeds 85 dB(A).
6. **Do not overreach.** Keep proper footing and balance at all times.
7. **Stay alert.** Watch what you are doing. Use common sense. Do not operate the tool when you are tired.
8. **Secure workpiece.** Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.
9. **Remove adjusting keys and wrenches.** Always check that adjusting keys and wrenches are removed from the tool before switching on.
10. **Use appropriate tool.** The intended use is laid down in this instruction manual. Do not force small tools or attachments to do the job of a heavy-duty tool. The tool will do the job better and safer at the rate for which it was intended. Do not force the tool.

- ⚠ **Warning!** The use of any accessory or attachment or performance of any operation with this tool, other than those recommended in this instruction manual may present a risk of personal injury.
- 11. **Check for damaged parts.** Before using the tool, carefully check it for damage to ensure that it will operate properly and perform its intended function. Check for misalignment and seizure of moving parts, breakage of parts and any other conditions that may affect its operation. Have damaged guards or other defective parts repaired or replaced as instructed. Do not use the tool if the switch is defective. Have any damaged or defective parts replaced by an authorized repair agent. Never attempt any repairs yourself.
- 12. **Remove the battery.** Where the design permits, remove the battery when the tool is not in use, before changing any parts of the tool, accessories or attachments and before servicing.
- 13. **Avoid unintentional starting.** Do not carry the tool with a finger on the switch. Be sure that the switch is released when plugging in.
- 14. **Do not abuse cord.** Never carry the charger by its cord or yank it to disconnect from the socket. Keep the cord away from heat, oil and sharp edges.
- 15. **Store idle tools.** When not in use, power tools must be stored in a dry place and locked up securely, out of reach of children.
- 16. **Maintain tools with care.** Keep the tools in good condition and clean for better and safer performance. Follow the instructions for maintenance and changing accessories. Inspect the tool cords at regular intervals and, if damaged, have them repaired by an authorized repair agent. Inspect the extension cords periodically and replace them if damaged. Keep all controls dry, clean and free from oil and grease.
- 17. **Have your tool repaired by an authorized repair agent.** This Power Tool is in accordance with the relevant safety regulations. To avoid danger, electric appliances must only be repaired by qualified technicians using original spare parts.

18. **Never attempt to open for any reason.**
19. **Do not expose the battery to water.**
20. **Do not store in locations where the temperature may exceed 40°C.**
21. **Charge only at ambient temperatures between 4°C and 40°C.**
22. **Charge only using the charger provided with the tool.**
23. **When disposing of batteries, follow the instructions given in the section "Protecting the environment".**
24. **Leaks from battery cells can occur under extreme conditions.** The battery fluid, a 25-30% solution of potassium hydroxide, can be harmful. In case of skin contact: (a) wash quickly with soap and water; or (b) neutralize with a mild acid such as lemon juice or vinegar. If the liquid gets into the eyes, flush them immediately with clean water for a minimum of 10 minutes. Seek medical attention.
25. **Fire hazard!** Avoid short-circuiting the contacts of a detached battery (e.g. when storing the battery in a toolbox).
26. **Do not incinerate the battery.**
27. **Do not attempt to charge damaged batteries.**

Additional Safety Instructions for Batteries and Chargers

- #### Batteries
28. Use your Black & Decker charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
 29. Never attempt to charge non-rechargeable batteries.
 30. Have defective cords replaced immediately.
 31. Do not expose to water.
 32. Do not open the charger.
 33. Do not probe the charger.
 34. The charger is intended for indoor use only.
- #### Chargers
35. **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
 36. **When working on a ladder or on scaffolding be sure to lay the tool down on its side when not in use.** Some tools with large battery packs will stand upright but may be easily knocked over.
 37. Avoid touching the tip of a drill bit just after drilling, as it may be hot.
 38. When fitting and changing accessories, always use the instructions supplied with the accessory.
 39. Should your tool develop a fault, do not try to fix it yourself, but take it to one of our authorized repair agents.
 40. **Warning:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints,
 - Crystalline silica from bricks and cement and other masonry products, and
 - Arsenic and chromium from chemically-treated lumber (CCA).
 Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.



Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allowing dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

Labels on your tool

They may include the following symbols:

- V volts
- A Amperes
- Hz Hertz
- W Watts
- Min. Minutes
- ~ Alternating current
- ⎓ Direct current
- ∞ No load speed
- ⊠ Class II Construction
- ⊕ Earthing terminal
- ⚠ Safety alert symbol
- .../min Revolutions or reciprocation per minute
- .../bpm Beats per minute

Labels on Charger and Battery Pack

In addition to the pictographs used in this manual, the labels on the charger and the battery pack may show the following pictographs:

- ⏻ Battery charging
- ⏻ Battery charged
- ⏻ Replace Pack
- ⏻ Problem Powerline
- ⏻ Do not charge damaged battery packs
- 📖 Read instruction manual before use

Save these instructions!

Electrical safety

- ⚡ Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

Using an Extension Cable

An extension cable should not be used unless absolutely necessary. Use of an improper extension cable could result in a risk of fire and electric shock. If an extension cable must be used, use only those that are approved by the country's Electrical Authority. Make sure that extension cord is in good condition before using. Always use the cord that is suitable for the power input of your charger (see technical data on name plate).

When using a cable reel, always unwind the cable completely.

Features (fig. A)

1. Variable on / off switch
2. Forward / reverse slider
3. Two Gear Selector
4. Mode selector/ torque adjustment collar
5. Keyless chuck
6. Battery
7. Battery release button
8. Bit storage slot
9. Charger
10. Charging Indicator (Red)
11. End of Charge Indicator (Green)

Assembly and Adjustment

- ⚠ Prior to assembly and adjustment always remove the battery from the tool.
- ⚠ Always switch off the tool before inserting or removing the battery pack.

Fitting and Removing the Battery (Fig. B)

- To fit the battery (6), line it up with the receptacle on the tool. Slide the battery into the receptacle and push until the battery snaps into place.
- To remove the battery, push the release button (7) when at the same time pulling the battery out of the receptacle.

Fitting and Removing a Drill Bit or Screwdriver Bit (Fig. A & C)

N.B. Accessories mentioned in this manual may not necessarily be included in your pack. The tool is equipped with a keyless chuck to allow for easy exchange of bits.

- ⚠ **Warning:** First remove the battery from the tool.
- Lock the tool by setting the forward/ reverse slide (2) to the center position (fig. A).
- Open the chuck jaw (5) until it is sufficiently open. Insert the bit shank (12) into the chuck. Firmly tighten the chuck by turning it to the direction of "Grip" as marked on the chuck.
- To remove the bit, proceed in reverse order.

This tool is supplied with a double-ended screwdriver bit in the bit holder (8) (fig. A).

- To remove the screwdriver bit from the bit holder, lift the bit from the recess.
- To store the screwdriver bit, firmly push it into the holder.

Removing and Refitting the Chuck (Fig. D)

- Open the chuck jaws as far as possible.
- Insert a screwdriver into the chuck and remove the chuck retaining screw (14) by turning clockwise as shown.
- Tighten an Allen key (13) (not supplied) into the chuck and strike it with a hammer as shown.
- Remove the chuck by turning it counterclockwise.
- To refit the chuck, screw it onto the spindle and secure it with the chuck retaining screw.

Instruction for Use

- ⚠ Always observe the safety instructions and applicable regulations.
- ⚠ Let the tool work at its own pace. Do not overload.
- ⚠ Use only Black & Decker battery packs and chargers.

Charging the Battery (Fig. E)

- The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before.
- A new battery, or a battery that has not been used for an extended period of time, achieves full performance only after approximately 5 charging and discharging cycles.
- The battery may become warm while charging; this is normal and does not indicate a problem.
- ⚠ Do not charge the battery at ambient temperatures below 4°C or above 40°C. Recommended charging temperature is approximately 24°C.
- ⚠ No not use the charger supplied with this tool to charge any other tool or battery.
- To charge the battery, plug the charger (9) into an appropriate power outlet.
- Insert the battery pack (6) into the charger making sure the pack is fully seated in the charger. The red (charging) light (10) will lit permanently and the charging process has started.
- The battery pack will be fully charged in about 30 minutes. The completion of charge will be indicated by the green light (11) remaining ON continuously. The pack is fully charged and may be used at this time or left in the charger.
- If the red charging light blinks, the battery is defective.
- If the green light of the charger blinks, the battery is too hot. Charging will start once the battery has cooled down.
- Your power pack was sent from the factory in an uncharged condition. Before attempting to use it, it must be charged for at least 1 hours.
- After normal usage, your power pack should be fully charged in 30 minutes. If the power pack is run-down completely, it may take up to 1 hours to become fully charged.
- If the power pack does not charge properly – (i) Check current at receptacle by plugging in a lamp or other appliance. (ii) Check to see if receptacle is connected to a light switch that turns power off when you turn out the lights. (iii) Move charger and power pack to a surrounding air temperature of 4°C to 40°C. (iv) If the receptacle and temperature are OK, and you do not get proper charging, take or send the power pack and charger to your local Black & Decker service center.
- To prolong power pack life, avoid leaving the power pack on charge for extended periods of time (over 30 days without use). Although overcharging is not a safety concern, it can significantly reduce overall power pack life.
- Before using the tool, unplug the charger and disconnect the tool from the charger.
- ⚠ When disconnecting the tool from the charger, be sure to unplug the charger from the outlet first then disconnect the charger cord from the tool.
- ⚠ Do not use the tool while it is connected to the charger.

Selecting the Direction of Rotation (Fig. F)

- A forward / reverse control slider (2) determines the direction of the tool and also serves as a lock off. For drilling and for tightening screws, use forward (clockwise) rotation. For loosening screws or removing a jammed drill bit, use reverse (counterclockwise) rotation.
- To select forward rotation, push the forward / reverse slider (2) to the left.
- To select reverse rotation, push the forward / reverse slider to the right.
- To lock the tool, set the forward / reverse slider into the center position.

Selecting the Operating Mode or Torque (Fig. G & H)

This tool is fitted with a collar to select the operating mode and to set the torque for tightening screws. Large screws and hard work piece materials require a higher torque setting than small screws and soft work piece materials. The collar has a wide range of settings to suit your application.

- For drilling in wood, metal and plastics, set the collar (4) to the drilling position by aligning the symbol 1 with the marking (15).
 - For screwdriving, set the collar to the desired setting.
- If you do not yet know the appropriate setting, proceed as follows:
- Set the collar (4) to the lowest torque setting.
 - Tighten the first screw.
 - If the clutch ratchets before the desired result is achieved, increase the collar setting and continue tightening the screw. Repeat until you reach the correct setting. Use this setting for the remaining screws.

Two Gear Selector (Fig. H)

- For drilling in steel and for screwdriving applications, slide the two-gear selector (3) towards the back of the tool, exposing the number 1 (1st gear – high torque).
- For drilling in materials other than steel, slide the two-gear selector (3) towards the rear of the tool, exposing the number 2 (2nd gear – high speed).

Switching On and Off (Fig. I)

- To switch the tool on, press the on/off switch (1). When slightly pressing the switch, the tool will run at low speed. When pressing the switch further, the tool will run at high speed.
- To switch the tool off, release the variable speed switch.

Handy Hints

Drilling

- ⚠ **WARNING:** Drill may stall (if overloaded or improperly used) causing a twist. Always expect the stall. Grip the drill firmly to control the twisting action (see Fig. F) and prevent loss of control that could cause personal injury. If a stall does occur, release the trigger immediately and determine the reason for the stall before re-starting. Do not click the trigger of a stalled drill off and on in an attempt to start it. Damage to the drill can result.
- Always apply a light pressure in a straight line with the drill bit.
- Run the drill very slowly, using light pressure, until the hole is started enough to keep the drill bit from slipping out of it.
- Use a block of wood to back up work pieces that may splinter.
- Use spade bits when drilling large diameter holes in wood.
- Use HSS drill bits when drilling in metal.
- Use a lubricant when drilling metals other than cast iron and brass.
- Make an indentation using a center punch at the center of the hole to be drilled in order to improve accuracy.
- Keep the motor running while pulling the bit out of a drilled hole. This will help reduce jamming.
- When using twist drill bits to drill holes in wood, it will be necessary to pull the bits out frequently to clear chips from the flutes.

Screwdriving

- Always use the correct type and size of screwdriver bit.
- If screws are difficult to tighten, try applying a small amount of washing liquid or soap as a lubricant.
- Always hold the tool and screwdriver bit in a straight line with the screw.

Maintenance

Your Black & Decker power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

- Regularly clean the ventilation slots in your tool using a soft brush or dry cloth.
- Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.
- Regularly open the chuck and tap it to remove any dust from the interior.

This tool is not user-serviceable. Take it to an authorized Black & Decker repair agent for service. Your charger does not require any maintenance apart from regular cleaning.

⚠ Unplug the charger before cleaning it.

Important

To ensure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or other qualified organizations, always using identical replacement parts. Unit contains no user serviceable parts inside.

Accessories

The performance of any power tool is dependent upon the accessory used. Black & Decker accessories are engineered to high quality standards and are designed to enhance the performance of your power tool. By using Black & Decker accessories you will get the very best from your tool.

The following accessories should be used only in the sizes specified below:

	SX3000	SX4000
Bits for metal drilling	≤ 10 mm	≤ 10 mm
Bits for wood drilling	≤ 16 mm	≤ 25 mm
Screws for wood screwdriving	≤ Ø7 mm x 80 mm	≤ Ø8 mm x 80 mm

Black & Decker offers a large selection of accessories available at our local dealer or authorized service center at extra cost.

⚠ **CAUTION:** The use of any non-recommended accessories may be hazardous.

Protecting The Environment

Rechargeable Batteries

- ⚠ This product uses nickel-cadmium (NiCd) rechargeable and recyclable batteries, which can be charged many times to give long life and repeatedly full power.
- ⚠ This symbol indicates the NiCd batteries contained within this unit must be disposed of properly and not discarded in everyday household waste, which may be disposed of in an incinerator or landfill site. NiCd batteries can be harmful to the environment and can explode when exposed to fire. Do NOT incinerate or composted.

Please think of the protection of our environment. Therefore, when the batteries no longer hold a charge, they should be removed from the tool and recycled. Black & Decker recommends the following:

- Discharge batteries completely by running the unit until the energy is completely discharged and then remove from the tool. Place the battery in suitable packaging to ensure that the terminals cannot be short circuited.
- Take the battery pack to your local recycling station. If necessary, contact your local municipality for proper disposal instructions in your city/town. The collected batteries will be disposed of properly and/or used for recycling purposes whilst protecting the environment.

Note: you as a customer are responsible for proper disposal or recycling of the battery pack.

Unwanted Tools

- ♻ Should you find one day that your tool needs replacement, or if it is of no further use to you, think of the protection of the environment. Black & Decker recommends you to contact your local council for disposal information.

Service Information

Black & Decker offers a full network of company-owned and authorized service locations throughout Asia. All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair, or genuine factory replacement parts, contact the Black & Decker location nearest to you.

Notes

- Black & Decker's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- Standard equipment and accessories may vary by country.
- Product specifications may differ by country.
- Complete product range may not be available in all countries. Contact your local Black & Decker dealers for range availability.

