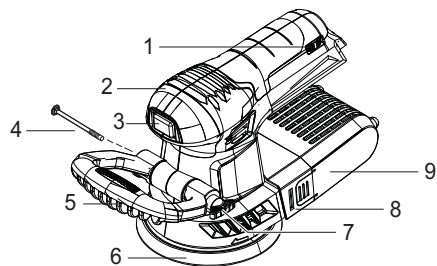
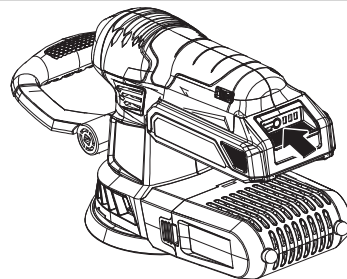


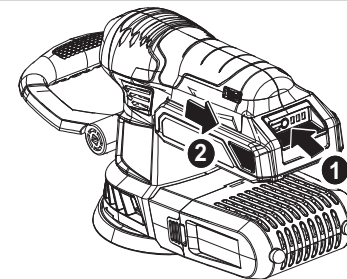
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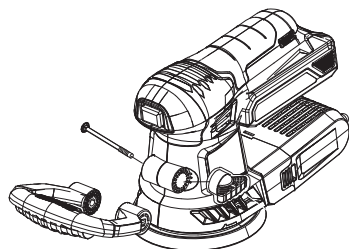
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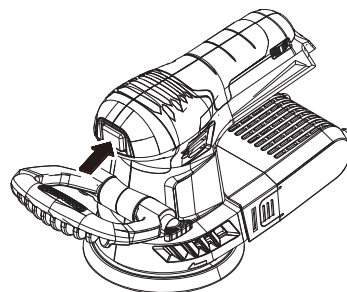
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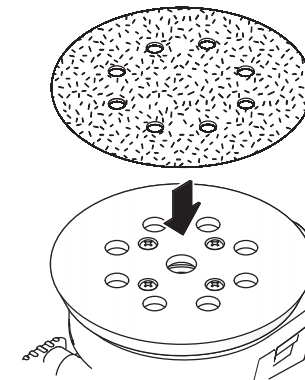
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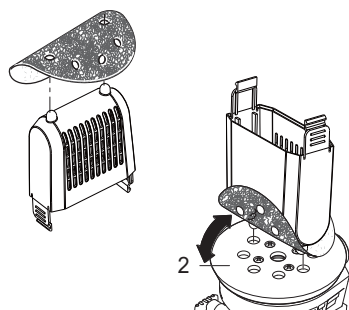
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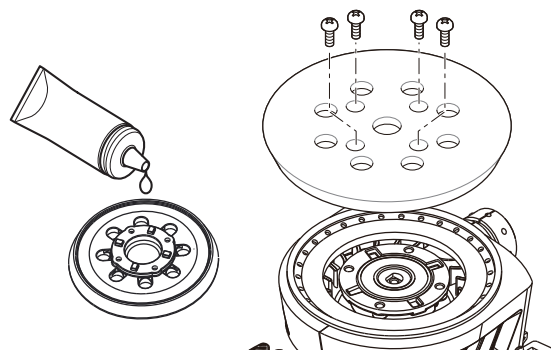
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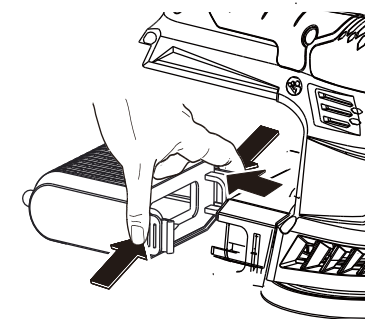
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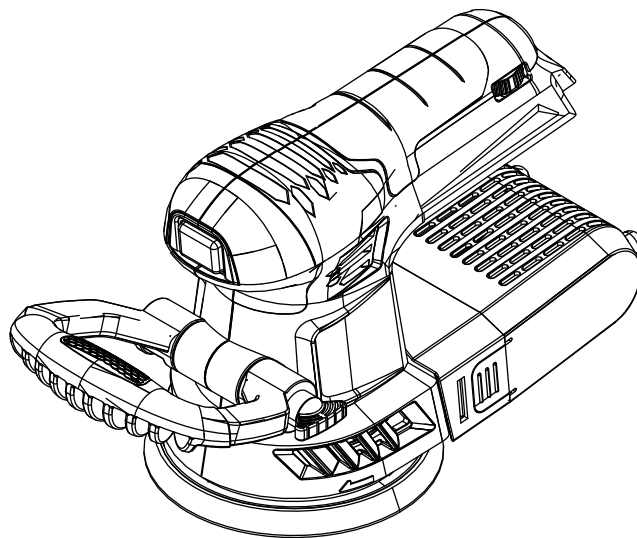
greenworks

3100107AU

EN

SANDER

OPERATOR MANUAL



E8038

3100107

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1 DESCRIPTION

1.1 PURPOSE

The machine is intended for dry sanding of wood, plastic, metal, filler as well as coated surfaces. Machines with electronic control are also suitable for polishing.

1.2 OVERVIEW

Figure 1.

1 Thumbwheel for orbit frequency preselection	5 Auxiliary handle
2 Handle	6 Sanding plate
3 Switch trigger	7 Wing nut
4 Screw for auxiliary handle	8 Cap of dust box
	9 Dust box

1.3 PACKING LIST

1 Sander	2 Manual
----------	----------

2 GENERAL POWER TOOL SAFETY WARNINGS

▲ WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your battery-operated (cordless) power tool.

2.1 WORK AREA SAFETY

- **Keep work area clean and well lit.** *Cluttered or 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.*
- **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2.2 ELECTRICAL SAFETY

- **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.*
- **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.*

- **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- **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 and moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- **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.*
- **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.*

2.3 PERSONAL SAFETY

- **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 lapse of attention while operating power tools may result in serious personal injury.*
- **Use personal protection. Always wear eye protection.** *Protective products such as dust mask, non-skid safety shoes, hard hat or hearing protection used appropriately will reduce personal injuries.*
- **Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack and when 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.*
- **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.*
- **Do not over-reach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- **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.*
- **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.*

2.4 BATTERY TOOL USE AND CARE

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

- **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 fire.*
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with plenty of soap and water. If liquid contacts eyes, immediately seek medical help.** *Liquid ejected from the battery may cause irritation or burns.*

2.5 POWER TOOL USE AND CARE

- **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.*
- **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.*
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- **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.*
- **Maintain power tools. 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.*
- **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- **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.*

2.6 SERVICE

- **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.*





3 SAFETY WARNINGS FOR SANDER


- Use the machine only for dry sanding. Penetration of water into the machine increases the risk of an electrical shock.
- Be careful that no persons are put at risk through sparking. Remove any combustible materials in the vicinity. Sparking occurs when sanding metal materials.

- **Caution, fire hazard!** Avoid overheating the object being sanded as well as the sander. Always empty the dust collector before taking breaks. In unfavourable conditions, e. g., when sparks emit from sanding metals, sanding debris in the dust bag, micro filter or paper sack (or in the filter sack or filter of the vacuum cleaner) can self-ignite. Particularly when mixed with remainders of varnish, polyurethane or other chemical materials and when the sanding debris is hot after long periods of working.
- When working with the machine, always hold it firmly with both hands and provide for a secure stance. The power tool is guided more secure with both hands.
- Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- Do not open the battery. Risk of short-circuiting.
- In case of damage and improper use of the battery, vapours may be emitted. Ventilate the area and seek medical help in case of complaints. The vapours can irritate the respiratory system.
- Use the battery only in conjunction with your power tool. This measure alone protects the battery against dangerous overload.
- The battery pack can be damaged by pointed objects such as nails or screwdrivers or by force applied externally. An internal short circuit can occur and the battery pack can burn, smoke, explode or overheat.

4 SYMBOLS ON THE PRODUCT




The following symbols are important for reading and understanding the operating instructions. Please take note of the symbols and their meanings. The correct interpretation of the symbols will help you to use the machine in a better and safer manner.

Symbol	Explanation
	Safety alert
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Wear ear protection.
	Wear eye protection
	Wear a dust mask
	Wear safety gloves



Symbol	Explanation
V	Volts
	Direct Current
min ⁻¹	No-load speed
	No-load orbital stroke rate
cm ²	Sanding sheet surface
mm	Orbit diameter
	Sanding plate diameter


5 RISK LEVELS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYM-BOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

6 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste. Make this machine available for separate collection.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.

	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a equipment that accepts lithium-ion batteries.
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7 INSTALLATION

7.1 UNPACK THE MACHINE

⚠ WARNING

Make sure that you correctly assemble the machine before use.

⚠ WARNING

- If the parts are damaged, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If the parts are damaged or missing, speak to the service center.

1. Open the package.
2. Read the documentation in the box.
3. Remove all the unassembled parts from the box.
4. Remove the machine from the box.
5. Discard the box and package in compliance with local regulations.

7.2 INSTALL THE BATTERY PACK

Figure 2.

⚠ WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and do the instructions in the battery and charger manual.

1. Align the lift ribs on the battery pack with the grooves in the battery compartment.
2. Push the battery pack into the battery compartment until the battery pack locks into place.
3. When you hear a click, the battery pack is installed.

7.3 REMOVE THE BATTERY PACK

Figure 3.

1. Push and hold the battery release button.
2. Remove the battery pack from the machine.

7.4 INSTALL THE AUXILIARY HANDLE

Figure 4

1. Move the auxiliary handle from the front onto the housing to engage the studs of the handle into the recesses of the housing.
2. Tighten the auxiliary handle with the screw and the wing nut.

8 OPERATION

⚠ WARNING

Do not use any attachments or accessories not recommended by the manufacturer of this product.

8.1 START THE MACHINE

Figure 5.

1. Push the switch trigger.

8.2 STOP THE MACHINE

Figure 5.

1. Release the switch trigger.

8.3 REPLACE THE SANDING SHEETS

Figure 6 - 7.

Remove any dust or debris from the sanding plate to attach a new sanding sheet.

1. Lift the sanding sheet from the side and pull it off of the sanding plate.
2. Put the sanding sheet with the Velcro facing up on the dust box.
3. Push the cams of the dust box into two holes of the sanding plate.
4. Roll off the sanding sheet from the dust box.
5. Push new the sanding sheet tightly against the bottom side of the sanding plate.

8.4 REPLACE THE SANDING PLATE

Figure 8.

1. Pull off the sanding sheet or the polishing accessory.
2. Loosen the four screws fully and remove the sanding plate.
3. Clean the top side of the new sanding plate. Apply a thin layer of synthetic grease to the outer ring hatched grey.
4. Attach the new sanding plate and tighten the four screws again.

i NOTE

Replace a damaged sanding plate immediately.

8.5 CLEAN THE DUST BOX

Figure 9.

1. Pull the dust box off the machine by squeezing the two sides of dust box.
2. Empty the dust box and clean the dust box with a soft brush.

i NOTE

Empty and clean the dust box in good time.

8.6 SELECT THE SANDING PLATE

The machine can be equipped with sanding plate with different hardness for different operation.

- Medium (black): used for all sanding work,
- Soft (grey, accessory): used for intermediate and fine sanding, incl. on convex surfaces.

8.7 OPERATE THE MACHINE

Surface sanding

1. Start the machine.
2. Put it with the complete sanding surface on the surface to be worked and move the machine with moderate pressure over the workpiece.

The removal capacity and the sanding pattern are mainly determined by the selection of the sanding sheet, the preselected orbital stroke rate and the applied pressure.

Use only initial sanding accessories.

Rough Sanding

1. Attach a sanding sheet with coarse grain.
2. Apply only light pressure to the machine so that it runs at a higher stroke rate and high material removal is achieved.

Fine Sanding

1. Attach a sanding sheet with fine grain.
2. By lightly varying the application pressure or changing the orbital stroke rate, the sanding plate stroke rate can be reduced whereby the orbital action is maintained.

Polishing

1. Select a low orbital stroke rate (level 1 – 4) when polishing in order to avoid heating up the surface excessively.
2. Apply the polish onto a somewhat smaller surface than you intend to polish. Work the polishing agent in with a suitable polishing tool applying it crosswise or with circular motion and moderate pressure.
3. Clean the polishing accessories regularly to ensure good polishing results. Wash out polishing accessories with a mild detergent and warm water; do not use paint thinner.

i NOTE

Do not allow the polishing agent to dry out on the surface, otherwise the surface can become damaged. Do not subject the surface to be polished to direct sunlight.

original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).

9 MAINTENANCE

9.1 GENERAL MAINTENANCE

- Before each use, examine the machine for damaged, missing, or loose parts such as screws, nuts, bolts and caps.
- Clean the machine with a dry cloth. Do not use solvents.

▲ WARNING

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

▲ CAUTION

Use only approved replacement parts.

10 TECHNICAL DATA

Voltage	24 V
No load speed	3,000 - 12,000 min ⁻¹
No load orbital stroke rate	6,000 - 24,000 min ⁻¹
Orbit diameter	3.2 mm
Sanding plate dimension	125 mm
Weight (without battery)	1.41 kg
Battery	29807 / 29837 and other BAG series
Charger	2913907(VDE & BS) / 29817(VDE) / 29827(BS) and other CAG series
Measured sound pressure level	77dB(A), K _{pA} = 3 dB(A)
Measured sound power level	80 dB(A), K _{WA} = 3 dB(A)
Vibration	4.5 m/s ² , K = 1.5 m/s ²

11 WARRANTY

(The full warranty terms and conditions can be found on webpage)

The warranty is 4 years on the product, and 2 years on batteries (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways than described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not considered as warranty. The