



POWERPLUS 20V ANGLE GRINDER (SKIN ONLY)

CT20VGRNDRA

SAFETY & WARNINGS

Save all warnings and instructions for future reference. The term “power tool” refers to your mains operated (corded) power tool or battery-operated (cordless) power tool.

Work area

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

Electrical safety

1. 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 the risk of electric shock.
2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use to reduce the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply to reduce the risk of electric shock.

Personal safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. Use personal protective equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
3. Prevent unintentional starting. Ensure the switch is in the off position before connecting to a 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.
4. 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.
5. Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
6. Do not overreach. Always keep proper footing and balance. This enables better control of the power tool in unexpected situations.
7. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

Power tool use and care

1. Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
2. Do not use the tool if the switch does not turn it on or off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
4. Store idle power tools out of the reach of children and other untrained persons. Power tools are dangerous in the hands of untrained users.
5. Maintain tools with care. 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.
6. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

Battery use and care

1. Ensure the switch is in the off position before inserting the battery pack. Inserting the battery pack into power tools that have the switch on invites accidents.
2. 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.
3. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
4. When the 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.
5. If the appliance is misused or damaged, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, seek medical help as well. Liquid ejected from the battery may cause irritation or burns.
6. If the battery is damaged, vapours may be emitted which can irritate the respiratory system. Provide fresh air and seek medical help in case of inhalation.
7. Do not open the battery. Keep the battery away from sources of heat, such as fire or continuous direct sunlight, to avoid the danger of explosion.

Grinder use and safety

- This tool is intended to function as a grinder or cut-off. Read all safety instructions, warnings and specifications provided with this power tool. Failure to follow all instructions may result in electric shock, fire, or injury.
- Operations such as sanding, wire brushing or polishing are not recommended with this power tool. Operations for which the power tool was not designed for may create a hazard and result in injury.
- Do not use accessories that are not specifically designed and recommended by Kogan.com. Just because an accessory can be attached to the tool does not assure safe operation.
- The rated speed of the accessory tool must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break apart and fly away.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
- The arbour size of wheels, flanges, backing pads or other accessories must properly fit the spindle of the power tool. Accessories with arbour holes that do not match the power tool will run out of balance, vibrate excessively, and may cause loss of control.
- Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or

part of a broken accessory may fly away and cause injury beyond the immediate area of operation.

- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- Never run the power tool while carrying it by your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Never cut, drill or saw in concealed areas where there may be electric, gas or water lines. Use a suitable detector to locate such lines.

Even when the tool is used as intended, it is not possible to eliminate all residual risk factors. The following hazards may still arise:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Health defects resulting from vibration emission.

WARNING: This machine produces an electromagnetic field during operation. This field may interfere with active or passive medical implants. Users with such implants should consult with their doctor before using this device.

OVERVIEW



- 1 Spindle Lock
- 2 Adjustable Safety Guard
- 3 Auxiliary Handle
- 4 Switch
- 5 Main Handle
- 6 Battery Pack (Not Included)
- 7 Battery Charger (Not Included)
- 8 Push Lock Button

OPERATION

Charging the battery pack (not included)

1. Remove the battery pack (6) from the handle, pressing the push lock button (8) downwards to unlock it.
2. Check that your mains voltage is the same as that marked on the rating plate of the battery charger. Plug the mains plug of the charger (7) into the mains socket.
3. The temperature of the battery pack may rise slightly during the charging operation. This is normal.

If the battery pack fails to charge, please check the following.

- Whether there is the voltage at the socket outlet.
- Whether there is proper contact at the charging contacts on the charger.

If the battery is still failing to charge after checking these issues, please contact the Kogan.com customer support team.

To ensure that the battery pack provides a long service life, you should take care to keep it charged. Never fully discharge the battery pack, as this will greatly reduce the battery lifetime.

Changing the tool

Before performing any changes to the power tool (including maintenance and tool changes), as well as during storage or transport, set the rotation direction switch to the centre position. Unintentional switching of the On/Off button may lead to injuries.

Attaching the auxiliary handle

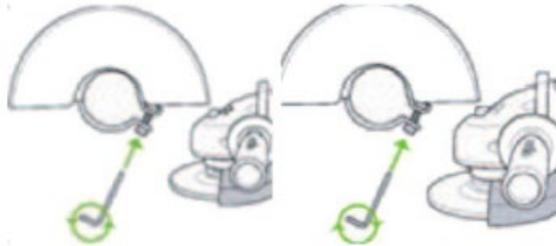
For safety reasons, the auxiliary handle must be assembled when using this tool.

1. Screw the auxiliary handle into one of the attachment points on the tool head.
2. Make sure the handle is securely fastened.



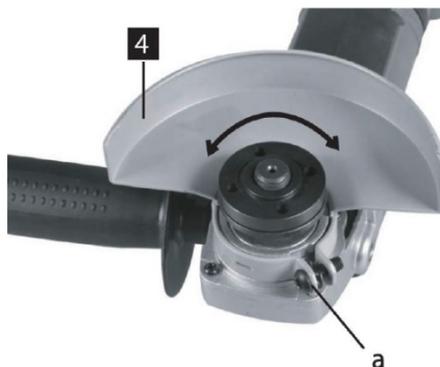
Adjusting the grinding guard

1. Loosen the screw on the guard with a suitable screwdriver. Do not undo until the screw is removed completely.
2. Adjust the guard to a position that still protects you from flying sparks.
3. Fasten the screw.

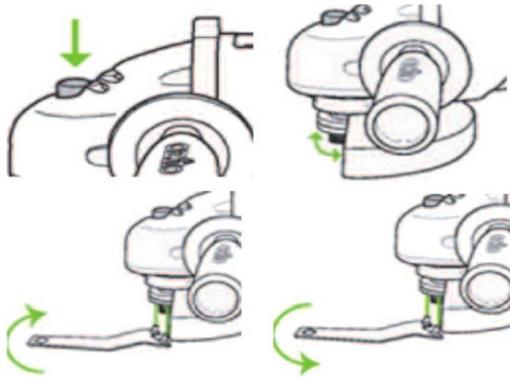


Installing the grinding disc

1. Make sure the guard is securely in place.
2. Place the inner flange on the spindle. Ensure it is aligned on the two flats.
3. Check the rated speed on the grinding disc. Do not use a disc with a rated speed lower than the speed shown on the tool label.
4. Fit the disc onto the spindle over the inner flange.
5. Press the spindle lock button to prevent movement of the spindle.
6. Keep the lock button pressed in and tighten the threaded outer flange by turning the lock nut wrench.



Removing the grinding disc



1. Press the spindle lock button (1).
2. Loosen the spindle lock nut (a) by turning the nut counter clockwise with the wrench.
3. Remove the threaded outer flange.
4. Remove the grinding disc from the spindle.

Switch

1. To turn the grinder on, hold the rear of the switch, then push forward until the switch won't move any further.
2. Press the switch down.

Grinding

1. Grip the grinder securely with two hands so that you always have full control. Starting the grinder will create a sudden jerk in your hands due to the torque.
2. After starting the tool, apply the grinding wheel to the workpiece.
Note: Do not turn the switch on or off while the grinder is in contact with the workpiece. It will decrease the switch life and could cause damage to the workpiece.
3. Tilt the grinder at a 10° to 15° angle for easy handling and smooth grinding.
4. Apply the grinding disc to the work surface with a light, steady pressure for maximum grinding efficiency. It should never be necessary to force the tool. The weight of the tool applies adequate pressure.
5. The grinding discs are for moderate metal removal on flat or contoured surfaces. Do not put excessive pressure on the grinding disc. Excessive or sudden pressure will overload the motor, slow the grinding action, put dangerous stress on the disc and cause breakage.

Note:

The continued use of a worn-out disc may result in disc explosion and serious injury.

Cutting-off

WARNING: Always use the closed guard for cutting-off operations on metal. While cutting-off, do not press the tool, do not twist, and do not turn.

- Begin work with the grinding wheel at a 90° angle to the workpiece.
- Work with moderation. Do not force the wheel.
- Do not attempt to stop the wheel with lateral pressure.

Symbols

The following symbols or initials may be used on the tool. Please see below to learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Name	Designation/explanation
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
Kg	Kilograms	Weight
Min	Minutes	Time
s	Seconds	Time
Φ	Diameter	Size of bits, grinding wheel etc.
n°	No load speed	Rotational speed at no load
.../min	Revolutions per minute	Revolutions, strokes, surface speed, orbits etc. per minute
0	Off position	Zero speed, zero torque
	Arrow	Action in the direction of the arrow
	Direct current	Type or a characteristic of current
	Read manual symbol	Alerts user to refer to the manual
	Wear eye protection	Alerts user to wear eye protection
	Class II construction	Double insulated construction tools

CARE & MAINTENANCE

Cleaning

Keep all safety devices, air vents and the motor housing free of dirt and dust as much as possible. Wipe the equipment down with a clean cloth or blow it clean with compressed air at low pressure.

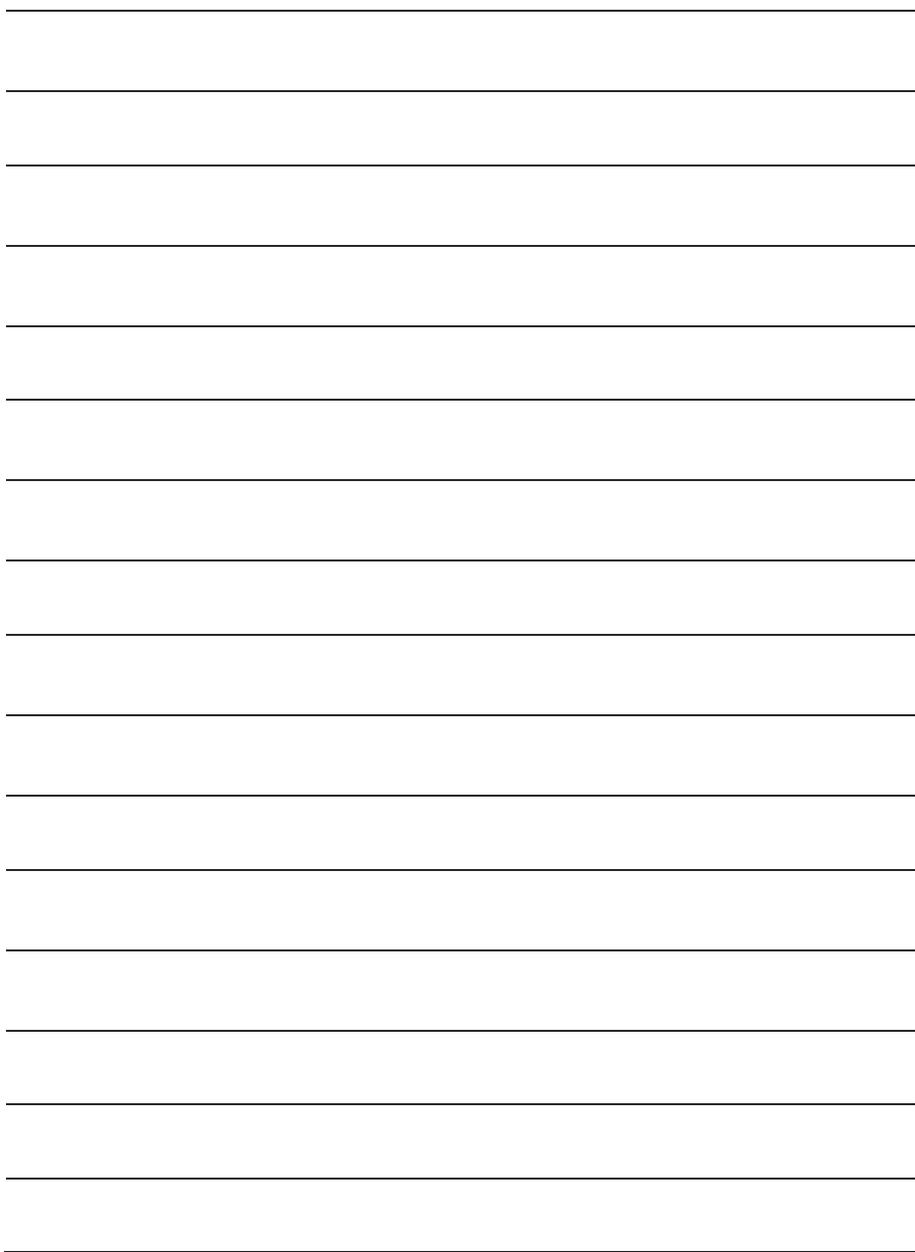
It is recommended that you clean the product immediately after each use.

Maintenance

Please charge the battery pack completely at least once every 6 months.

SPECIFICATIONS

Rechargeable battery	20V/2.0Ah Li-ion
No-load speed	9000rpm
Disc diameter	115mm
Frequency	50/60Hz
Charging time	~1 hour



Need more information?

We hope that this guide has given you the assistance needed for a simple set-up. For the most up-to-date guide for your product, as well as any additional assistance you may require, head online to **help.kogan.com**

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