



# Professional HEAVY DUTY

## GCS 18V-230

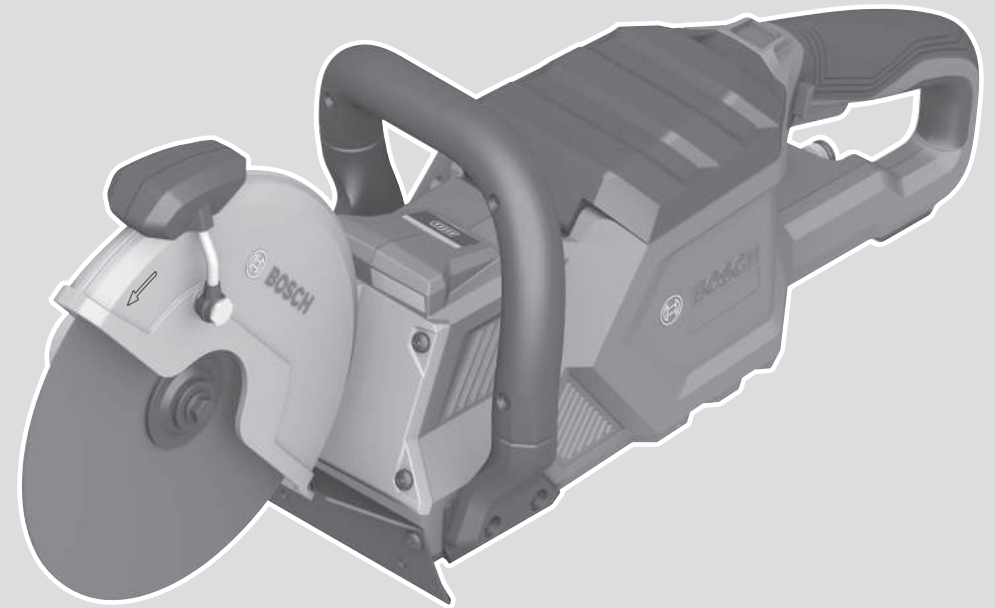
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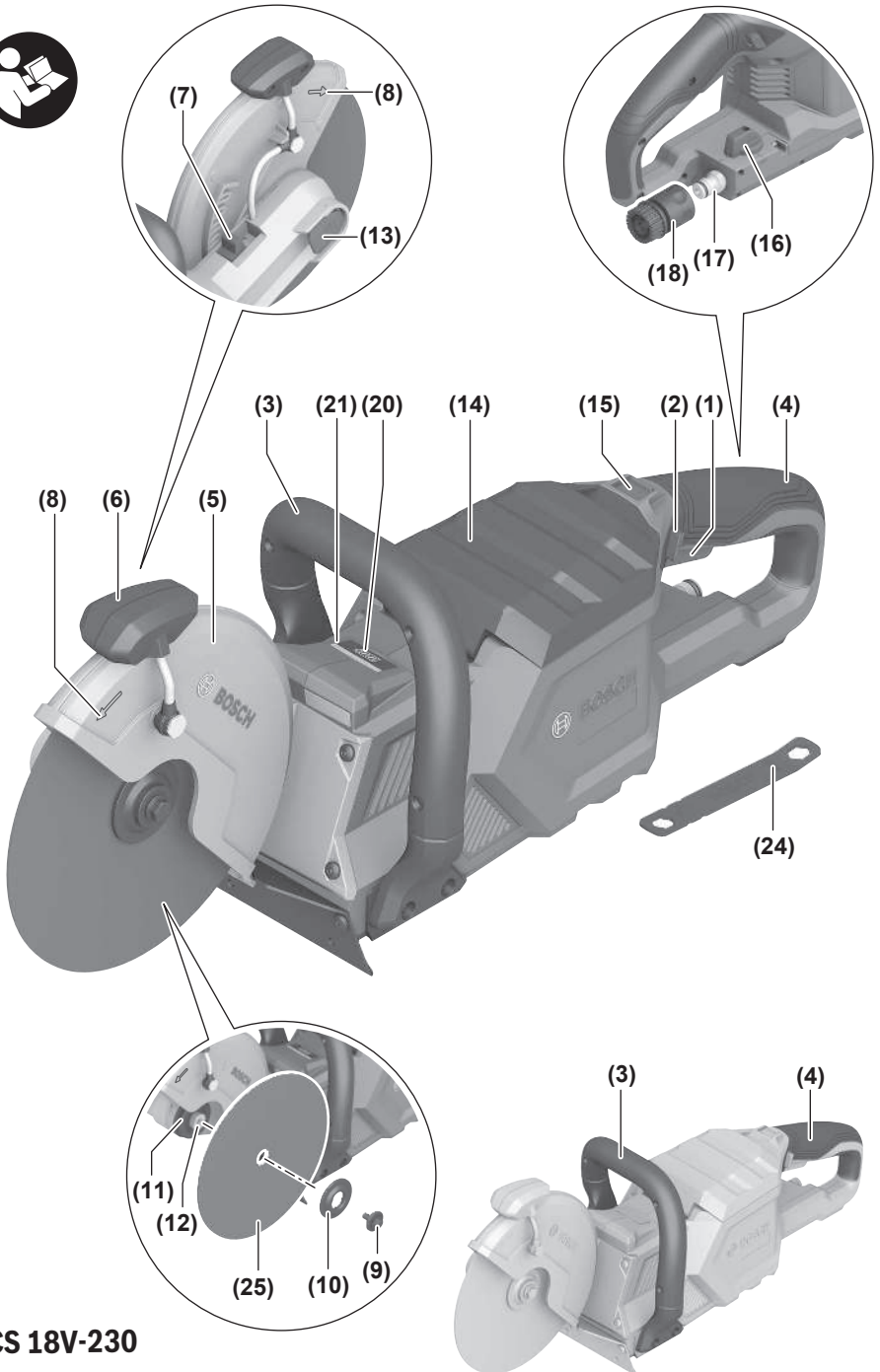
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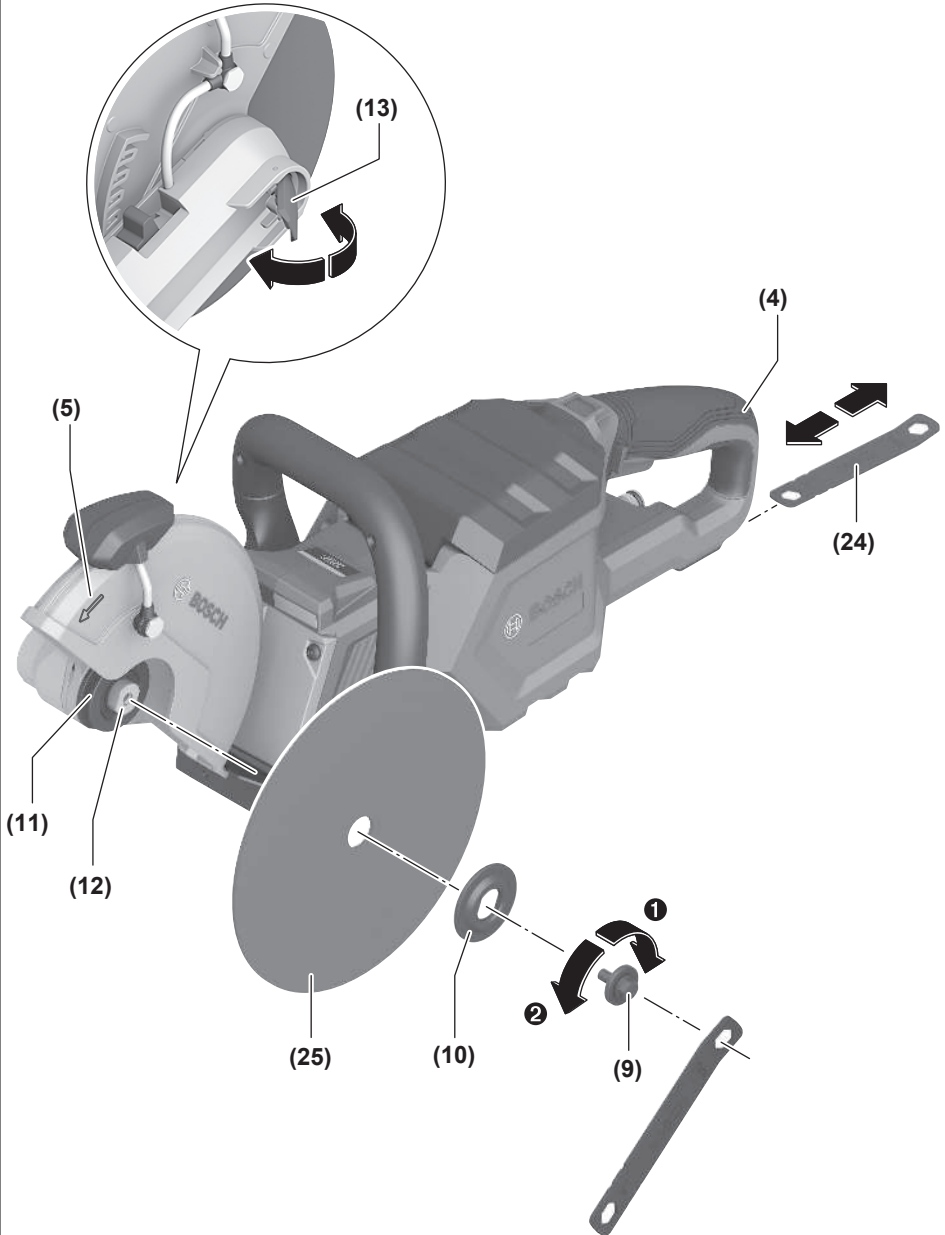
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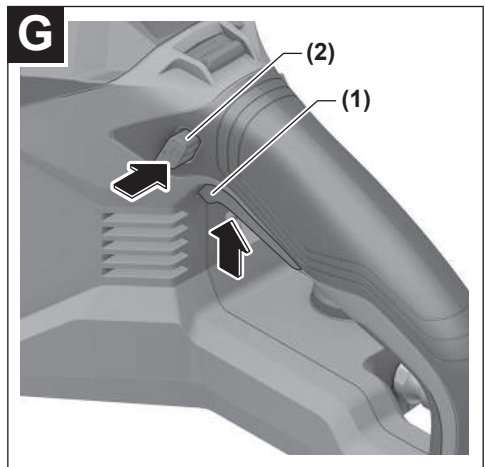
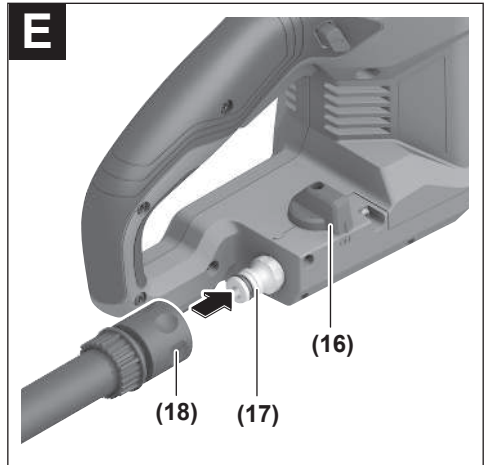


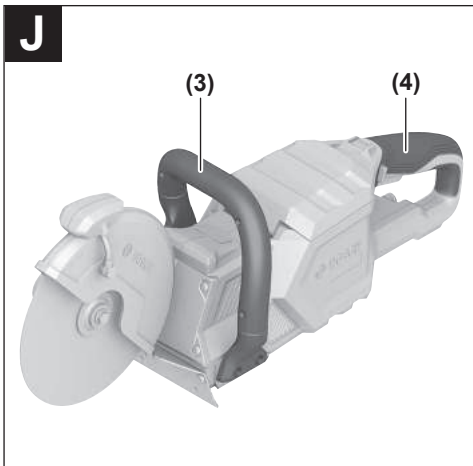
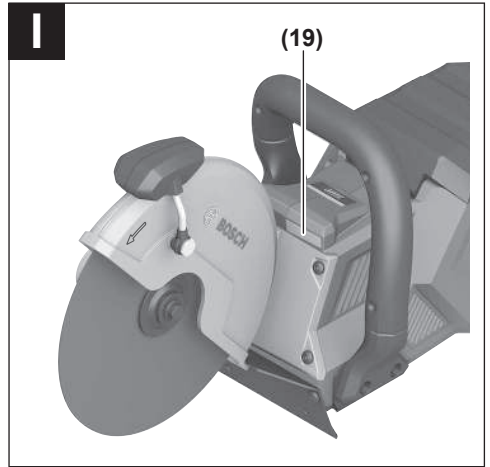
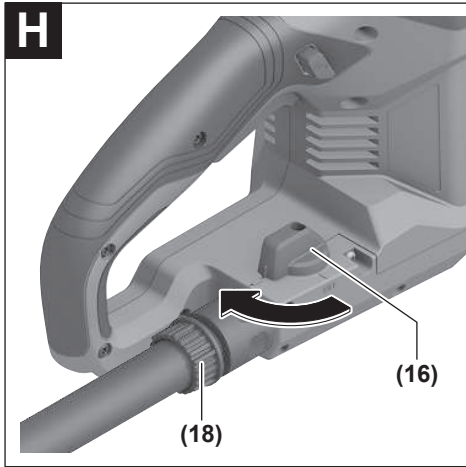




**GCS 18V-230**

**A**





# English

## Safety Instructions

### 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 mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 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.

#### 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 or 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.

#### 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 moment of inattention while operating power tools may result in serious personal injury.

- ▶ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- ▶ **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 engaging 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 overreach. 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.

#### 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 per-**

**formed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

#### 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 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.

#### 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.

#### Cut-off machine safety warnings

- ▶ **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- ▶ **Use only bonded reinforced or diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.
- ▶ **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- ▶ **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- ▶ **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
- ▶ **Do not use worn down reinforced wheels from larger power tools.** Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.

- ▶ **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 and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- ▶ **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.
- ▶ **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- ▶ **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.
- ▶ **Hold the power tool by insulated gripping surfaces only, 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.
- ▶ **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.
- ▶ **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- ▶ **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- ▶ **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

#### Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power

tool to be forced in the direction opposite of the wheel's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- ▶ **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- ▶ **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- ▶ **Do not position your body in line with the rotating wheel.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- ▶ **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- ▶ **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** Such blades create frequent kickback and loss of control.
- ▶ **Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- ▶ **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- ▶ **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- ▶ **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- ▶ **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel

may cut gas or water pipes, electrical wiring or objects that can cause kickback.

### Additional Safety Information



**Wear hearing protection, protective goggles, a dust mask and gloves. Use at least an FFP 2 protection class particle-filtering half mask.**

**ter ing half mask.**

- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Do not touch the cutting disc after use before it has cooled.** The cutting disc becomes very hot during use.
- ▶ **Hold the power tool firmly with both hands and make sure you have a stable footing.** The power tool can be more securely guided with both hands.
- ▶ **In case of damage and improper use of the battery, vapours may be emitted. The battery can set alight or explode.** Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The vapours may irritate the respiratory system.
- ▶ **Do not modify or open the battery.** There is a risk of short-circuiting.
- ▶ **The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally.** An internal short circuit may occur, causing the battery to burn, smoke, explode or overheat.
- ▶ **Only use the battery in the manufacturer's products.** This is the only way in which you can protect the battery against dangerous overload.



**Protect the battery against heat, e.g. against continuous intense sunlight, fire, dirt, water and moisture.** There is a risk of explosion and short-circuiting.



## Product Description and Specifications



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

Please observe the illustrations at the beginning of this operating manual.

### Intended Use

The power tool is intended for dry cutting in metal materials with bonded cutting discs or diamond cutting discs.

The power tool is intended for wet cutting in concrete, masonry and stone solely with the use of diamond cutting discs.

### Product Features

The numbering of the product features refers to the diagram of the power tool on the graphics page.

- (1) On/off switch

- (2) Lock-off function for on/off switch
- (3) Auxiliary handle
- (4) Handle (insulated gripping surface)
- (5) Protective guard
- (6) Protective guard knob
- (7) Adjusting lever for protective guard
- (8) Direction of rotation arrow
- (9) Clamping bolt with washer
- (10) Clamping flange
- (11) Mounting flange
- (12) Drive spindle
- (13) Spindle locking lever
- (14) Battery compartment cover
- (15) Release button for battery compartment cover
- (16) Valve for water connection
- (17) Connector for water connection
- (18) Adapter for water connection
- (19) Worklight
- (20) Battery charge indicator
- (21) Power tool status indicator
- (22) Rechargeable battery
- (23) Battery release button
- (24) Ring spanner
- (25) Diamond cutting disc<sup>a)</sup>

a) **This accessory is not part of the standard scope of delivery.**

## Technical Data

Cut-off saw		GCS 18V-230
Article number		<b>3 601 CB0 0..</b>
Rated voltage	V=	18
No-load speed <sup>A)</sup>	min <sup>-1</sup>	6200
Max. diameter of the cutting disc/diamond cutting disc <sup>B)</sup>	mm	230
Locating bore	mm	22.2
Max. cutting disc thickness (metal)	mm	1.9
Max. cutting disc thickness (diamond)	mm	2.6
Max. permissible water pressure	bar	6.2
Weight <sup>C)</sup>	kg	6.6 (8.0 Ah) – 7.0 (12.0 Ah)
Recommended ambient temperature during charging	°C	0 to +35

Cut-off saw		GCS 18V-230
Permitted ambient temperature during operation <sup>D)</sup> and during storage	°C	-20 to +50
Compatible rechargeable batteries		GBA 18V... ProCORE18V...
Recommended rechargeable batteries for maximum performance		ProCORE18V... ≥ 8.0 Ah
Recommended battery chargers		GAL 18... GAX 18... GAL 36...

A) Measured at 20–25 °C with rechargeable battery **ProCORE18V 12.0Ah**

B) Straight disc shape

C) Depending on battery in use

D) Limited performance at temperatures < 0 °C

Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit [www.bosch-professional.com/wac](http://www.bosch-professional.com/wac).

## Noise/Vibration Information

Noise emission values determined according to **EN 60745-2-22**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **95 dB(A)**; sound power level **106 dB(A)**. Uncertainty K = **3 dB**.

### Wear hearing protection!

Vibration total values  $a_{hv}$  (triaz vector sum) and uncertainty K determined according to **EN 60745-2-22**:

Cutting:  $a_{hv} < 2.5 \text{ m/s}^2$ , K = **1.5 m/s<sup>2</sup>**,

The vibration level given in these instructions has been measured in accordance with a standardised measuring procedure and may be used to compare power tools. It can also be used for a preliminary estimation of exposure to vibration.

The stated vibration level applies to the main applications of the power tool. However, if the power tool is used for different applications, with different application tools or poorly maintained, the vibration level may differ. This can significantly increase the exposure to vibration over the total working period.

To estimate the exposure to vibration accurately, the times when the tool is switched off or when it is running but not actually being used should also be taken into account. This can significantly reduce the exposure to vibration over the total working period.

Implement additional safety measures to protect the operator from the effects of vibration, such as servicing the power tool and application tools, keeping the hands warm, and organising workflows correctly.

## Rechargeable battery

**Bosch** sells some cordless power tools without a rechargeable battery. You can tell whether a rechargeable bat-

tery is included with the power tool by looking at the packaging.

## Charging the battery

► **Use only the chargers listed in the technical data.** Only these chargers are matched to the lithium-ion battery of your power tool.

**Note:** Lithium-ion rechargeable batteries are supplied partially charged according to international transport regulations. To ensure full rechargeable battery capacity, fully charge the rechargeable battery before using your tool for the first time.

## Inserting the Battery (see figure B)

Pull back the release button (15). The cover (14) opens.

Push the charged battery into the battery holder until it clicks into place.

Press the cover (14) down until you hear it click into place. Ensure that the battery the locking catch of the battery compartment cover is fully closed.

## Removing the Battery (see figure C)



Pull back the release button (15). The cover (14) opens.

To remove the rechargeable battery, press the battery release button and then pull the battery out of the housing. **Do not use force to do this.**

Press the cover (14) down until you hear it click into place. Ensure that the battery the locking catch of the battery compartment cover is fully closed.

## Battery Charge Indicator on the Rechargeable Battery

**Note:** Not all battery types have a battery charge indicator. The green LEDs on the battery charge indicator indicate the state of charge of the battery. For safety reasons, it is only possible to check the state of charge when the power tool is not in operation.

Press the button for the battery charge indicator  or  to show the state of charge. This is also possible when the battery is removed.

If no LED lights up after pressing the button for the battery charge indicator, then the battery is defective and must be replaced.

### Rechargeable battery type GBA 18V... | GBA18V...



LED	Capacity
3 × continuous green light	60–100 %
2 × continuous green light	30–60 %
1 × continuous green light	5–30 %
1 × flashing green light	0–5 %

## Battery model ProCORE18V...



LED	Capacity
5 × continuous green light	80–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous green light	5–20 %
1 × flashing green light	0–5 %

## Battery Charge Indicator on the Power Tool (see figure D)

The battery charge indicator on the power tool indicates the state of charge of the battery or an overload for a few seconds when the power tool is switched on.

LED	State of charge
5 × continuous green light	0–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous yellow light	1–20 %
1 × continuous red light	0–1 %

## Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water.

Only store the battery within a temperature range of –20 to 50 °C. Do not leave the battery in your car in the summer, for example.

Occasionally clean the ventilation slots on the battery using a soft brush that is clean and dry.

A significantly reduced operating time after charging indicates that the battery has deteriorated and must be replaced. Follow the instructions on correct disposal.

## Assembly

### Dust/Chip Extraction

Dust from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dust can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dust, such as oak or beech dust, is considered carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filter-class respirator.

Observe the relevant regulations in your country for the materials to be worked.

- ▶ **Avoid dust accumulation at the workplace.** Dust can easily ignite.

### Mounting/Changing the Diamond Cutting Disc (see figure A)

- ▶ **Wearing protective gloves while inserting and replacing diamond cutting discs is recommended.**
- ▶ **Diamond cutting discs become very hot while working; do not touch them until they have cooled.**
- ▶ **Always use a diamond cutting disc of the correct size and with the correct locating bore as specified in the technical data.**
- ▶ **Use only diamond-tipped cutting discs. Segmented diamond cutting discs may only exhibit negative cutting angles and max. 10 mm slots between the segments.**

#### Mounting the diamond cutting disc

- Clean the diamond cutting disc (25) and all the parts to be fitted.
- Remove the ring spanner (24) from the bottom of the handle (4).
- Place the diamond cutting disc (25) on the drive spindle (12). The direction of the arrow on the diamond cutting disc (25) must match the direction-of-rotation arrow (8) on the protective guard (5).
- Screw the clamping bolt with washer (9) into the spindle until the bolt is hand-tight.
- Pull the spindle locking lever (13), hold it in position and rotate the diamond cutting disc (25) until you hear the spindle lock click into place.
- Tighten the clamping bolt (9) in the drive spindle (12) using the ring spanner (24).
- Let go of the spindle locking lever (13).
- Insert the ring spanner (24) back into the bottom of the handle (4).

#### Removing the Diamond Cutting Disc

- Remove the ring spanner (24) from the bottom of the handle (4).
- Pull the spindle locking lever (13) and hold it in position.
- Use the ring spanner (24) to undo the clamping bolt (9).
- Undo and remove the clamping bolt with washer (9), the clamping flange (10) and the diamond cutting disc (25) from the drive spindle (12).
- Fit a new diamond cutting disc (25) (see "Mounting the diamond cutting disc", page 12).
- Insert the ring spanner (24) back into the bottom of the handle (4).

### Mounting/Changing the Cutting Disc

**Note:** Water cooling must not be used when working with bonded abrasives.

#### Mounting the Cutting Disc

A cutting disc is mounted in the same way as a diamond cutting disc is installed. The rotational direction of the cutting disc does not have to be taken into account.

#### Removing the Cutting Disc

A cutting disc is removed in the same way as a diamond cutting disc is removed.

### Fitting the Water Connection (see figure E)

**Note:** Only use water cooling when working with diamond cutting discs. Do not use water cooling when working with bonded abrasives.

- Make sure that the water supply is turned off and the valve (16) is closed.
- Remove the nut from the adapter (18).
- Insert the hose through the nut and into the adapter (18) and hand-tighten the nut.
- Push the adapter (18) onto the hose connector (17) until you hear it click into place

**Note:** Maximum permissible water pressure: 6.2 bar

### Removing the Water Connection

- Pull back the sleeve of the adapter (18) and remove the hose with the adapter.
- The adapter (18) can be fitted on the hose connector (18) for storage.

### Aligning the Protective Guard (see figure F)

Press and hold the adjusting lever (7) for the protective guard.

- ▶ Using the knob (6), rotate the protective guard (5) to the required position.

**Adjust the protective guard (5) such that sparking in the direction of the operator is prevented.**

Release the adjusting lever (7) for the protective guard.

Push the knob (6) in both directions in order to check or ensure that the protective guard (5) is engaged.

- ▶ **The protective guard (5) must only be able to be rotated in the direction of the accessory while the adjusting lever (7) is actuated. Otherwise, the power tool must not be used any more under any circumstances and must be sent to the after-sales service.**

## Operation

### Starting Operation

#### Switching On and Off (see figure G)

To **start** the power tool, first press the lock-off switch (2), then press and hold the on/off switch (1).

To **switch off** the power tool, release the on/off switch (1).

**Note:** For safety reasons, the on/off switch (1) cannot be locked; it must remain pressed during the entire operation.

### Opening/Closing the Water Supply (see figure )

To **open** the water supply, put the valve **(16)** into position **I**: Water will flow continuously over the diamond cutting disc.

To **close** the water supply, put the valve **(16)** into the **OFF** position.

### Switching On the Worklight (see figure I)

The worklight **(19)** will light up when the on/off switch **(1)** is fully pressed. The worklight will remain lit for approx.

5 seconds after the on/off switch **(1)** has been released.

### Status indicator

#### (see figure D)

The status indicator **(21)** indicates the status of the power tool according to the table below.

Status indicator (21)	Cause	Solution
Green	Power tool is ready for operation	–
Yellow	Battery is almost empty	Replace or charge battery
	Power tool and/or battery are exceeding the permissible operating temperature	Run the power tool at no load and allow it to cool down; allow the battery to cool down (see "Technical Data", page 10)
Red (continuous) and LED worklight flashing	Power tool and/or battery have exceeded the permissible operating temperature	Run the power tool at no load and allow it to cool down; allow the battery to cool down (see "Technical Data", page 10)
	Power tool is being overloaded	Replace the battery End the overload state and, if necessary, switch the power tool back on. Remove the battery and reinsert it. Then turn the power tool on again
Red (continuous)	Internal error	Remove the battery and reinsert it. Then turn the power tool on again Send the power tool to an authorised after-sales service centre for Bosch power tools
	Battery is empty	Replace or charge battery
	Cutting disc is jammed	Release the on/off switch, remove the cutting disc from the workpiece and restart the application.
Flashing red, LED worklight flashing and the power tool does not start up	On/off switch was pressed while the battery was being inserted	Release the on/off switch and continue inserting the battery. Once the battery is fully inserted, close the cover of the battery compartment. Release the on/off switch (by pressing the lock-off switch) and then press the on/off switch if you would like to put the power tool into operation.

### Practical Advice

- ▶ Exercise caution when cutting slots in structural walls; see the "Information on structural design" section.
- ▶ Do not load the power tool so heavily that it comes to a stop.
- ▶ If the power tool has been subjected to a heavy load, continue to run it at no-load for several minutes to cool down the accessory.

### Overload protection

The power tool is equipped with an overload protection system. In the event of overloading, the power tool automatically shuts off the electronics and the worklight **(19)** and the status indicator **(21)** flash.

**To switch the tool back on:** Release the on/off switch **(1)**.

As soon as the worklight **(19)** is no longer flashing and the status indicator **(21)** lights up green, you can switch the power tool back on.

- ▶ Work with cutting depths greater than 20 mm in hard materials, e.g. concrete, over several work operations, so as not to overload the motor.
- ▶ Clamp the workpiece if it is not secure under its own weight.
- ▶ Diamond cutting discs become very hot while working; do not touch them until they have cooled.

Protect the cutting disc against impact, shock and grease. Do not subject the cutting disc to lateral pressure.

Do not attempt to reduce the speed of a diamond cutting disc coming to a stop by applying pressure from the side.

For cutting especially hard material, e.g., concrete with high pebble content, the diamond cutting disc can overheat and become damaged as a result. This is clearly indicated by circular sparking, rotating with the diamond cutting disc.

If this happens, stop cutting and allow the diamond cutting disc to cool down by running the power tool for a short time at maximum speed with no load.

- ▶ The cutting discs sharpen themselves. A noticeably decreasing work rate and sparking all around the rim of the disc are indications of a cutting disc that has become blunt. In this case, sharpen the cutting disc by making short cuts in abrasive material (e.g. sandstone). Sporadic sparking is normal when working on stone and is therefore not a problem.

### Cutting Process (see figure J)

Hold the power tool by the auxiliary handle (3) and the handle (4).

**When cutting metal, make sure that the valve (16) is closed.**

Always use water cooling when cutting into concrete (see figure H).

- Attach the adapter (18), together with the water hose, firmly to the hose connector (17).
- Set the water flow using the valve (16) when the power tool is **switched off**.

**Note:** Maximum permissible water pressure: 6.2 bar

### Troubleshooting

Error	Cause	Solution
Power tool cannot be switched on	Battery is not inserted or is discharged	Replace or charge battery
	Power tool and battery are outside the permissible operating temperature	Establish the permissible operating temperature (see "Technical Data", page 10)
Power tool working, but with interruptions	Battery is almost empty	Replace or charge battery
	Internal error	Send the power tool to an authorised after-sales service centre for Bosch power tools
Power tool only working for a short time	Battery is almost empty	Replace or charge battery
Strong vibrations	Cutting disc is worn or is out of balance	Replace the cutting disc
	Cutting disc is damaged	
	Cutting disc is not fitted correctly	Correctly fit the cutting disc (see "Mounting/Changing the Diamond Cutting Disc (see figure A)", page 12), (see "Mounting/Changing the Cutting Disc", page 12)
Cutting disc jams, rough cuts or poor cutting performance	Internal error	Send the power tool to an authorised after-sales service centre for Bosch power tools
	Cutting disc is damaged	Replace the cutting disc
No water during cutting	Incorrect cutting process	Correct the cutting process (see "Cutting Process (see figure J)", page 14)
	Water supply is interrupted	Open the water supply
	Valve for the water supply is closed	Open the valve for the water supply

- ▶ **Check the components of the water connection (17) before you use the power tool. Never use damaged parts.**

- ▶ **Prevent water from penetrating into the power tool and keep it away from persons in the work environment.**

- Open the water supply and the valve (16) on the power tool.
- Ensure that the protective guard (5) is in the correct position (see "Aligning the Protective Guard (see figure F)", page 12).
- Switch the power tool on (see "Switching On and Off (see figure G)", page 12).
- Slowly and carefully plunge the cutting disc into the workpiece.
- Switch the power tool off once you have finished the cut.
- Close the valve (16) and the water supply.

### Cutting Direction

The power tool must always work in an up-grinding motion. Otherwise there is a risk that it will be pushed **uncontrolled** out of the cut.

### Information on structural design

Recesses in load-bearing walls are subject to country-specific regulations. These regulations must be observed under all circumstances. Seek advice from the responsible structural engineer, architect or construction supervisor before starting work.

Error	Cause	Solution
	Adapter for water connection is not fitted correctly	(see "Fitting the Water Connection (see figure E)", page 12)

## Maintenance and Service

### Maintenance and Cleaning

- ▶ **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.
- ▶ **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**

Store and handle the accessories carefully.

### After-Sales Service and Application Service

#### Great Britain

Tel. Service: (0344) 7360109

#### GB Importer:

Robert Bosch Ltd.  
Broadwater Park  
North Orbital Road  
Uxbridge  
UB9 5HJ

You can find the link to our service addresses and warranty conditions on the last page.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

### Disposal

Power tools, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.



Do not dispose of power tools and batteries/rechargeable batteries into household waste!

#### Only for EU countries and United Kingdom:

Electrical and electronic equipment or used batteries that are no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems. Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.

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