BOSCH

Professional HEAVY DUTY

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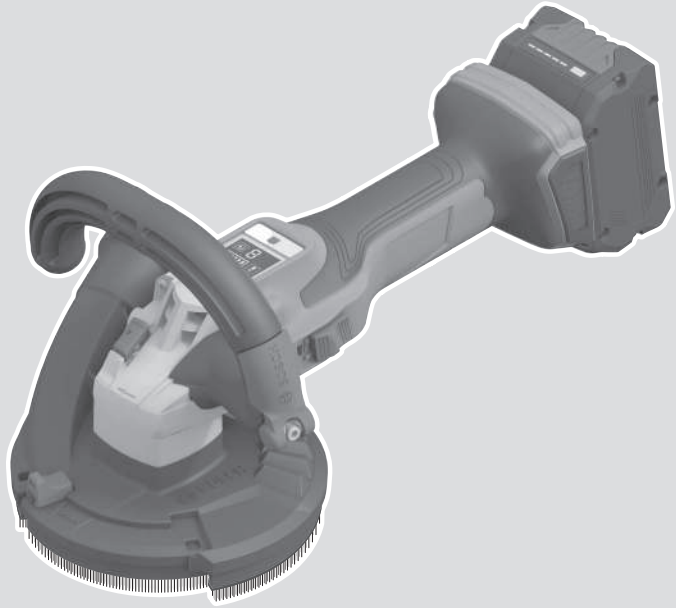

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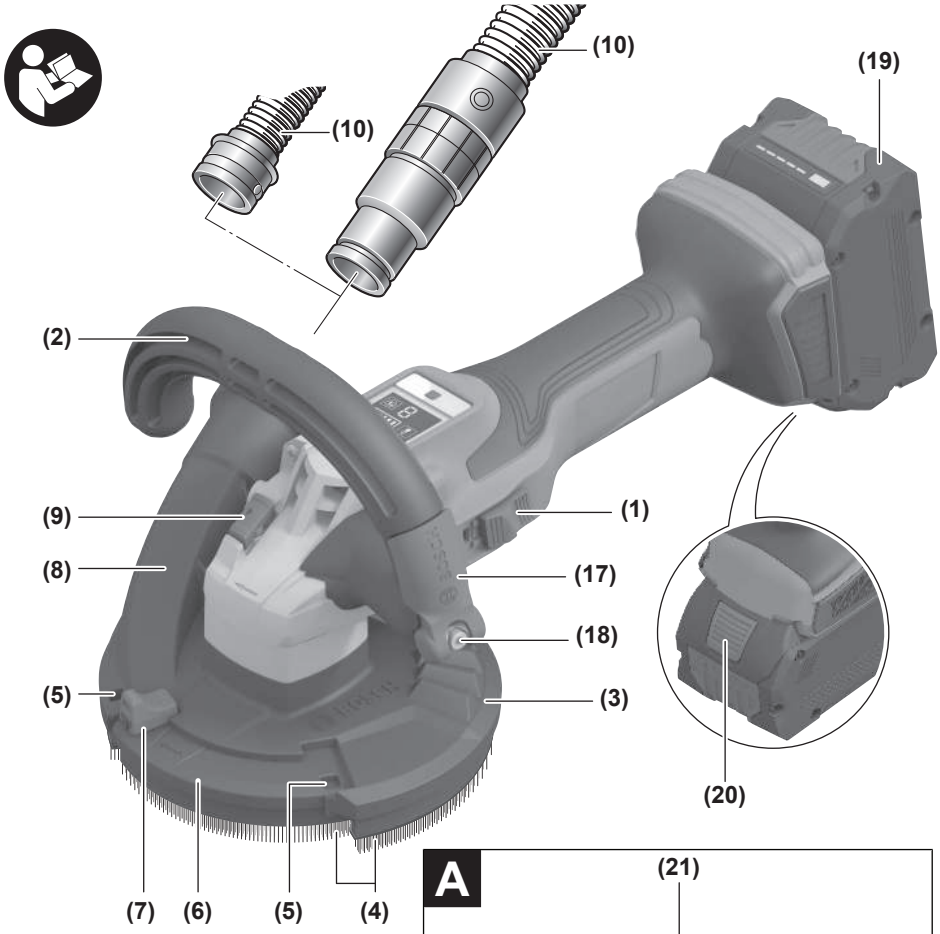
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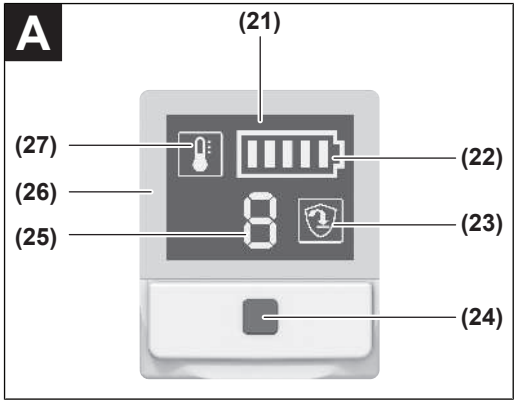
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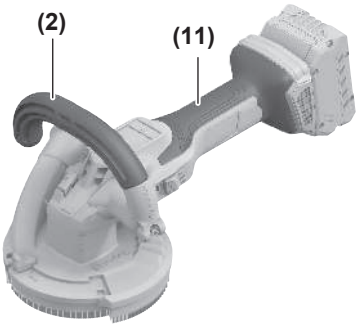
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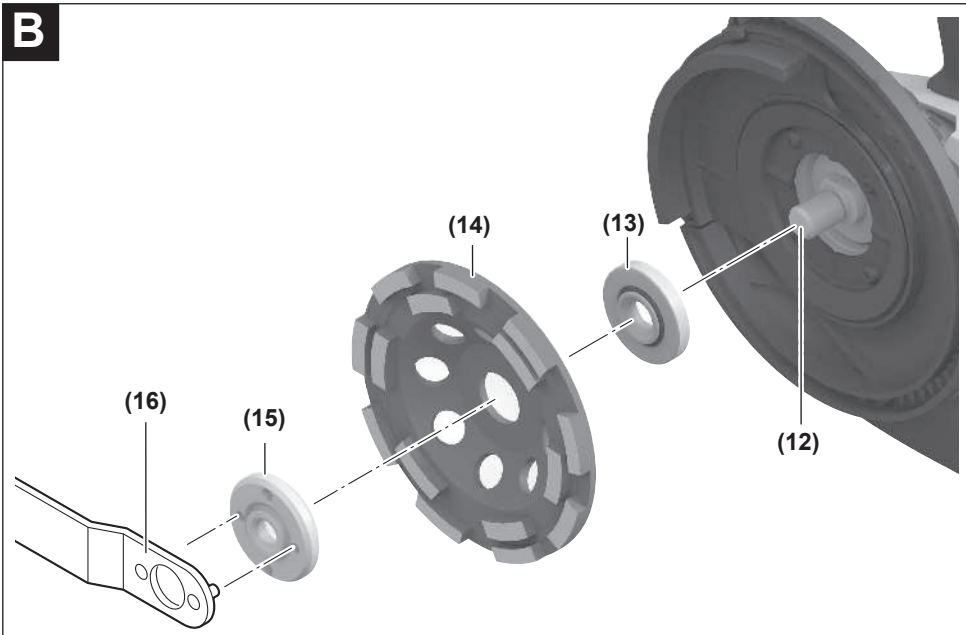

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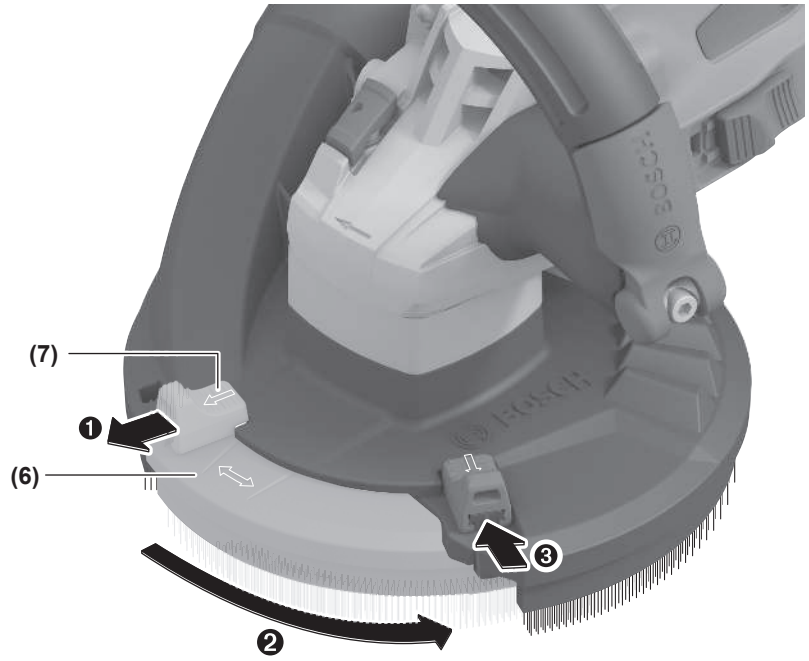

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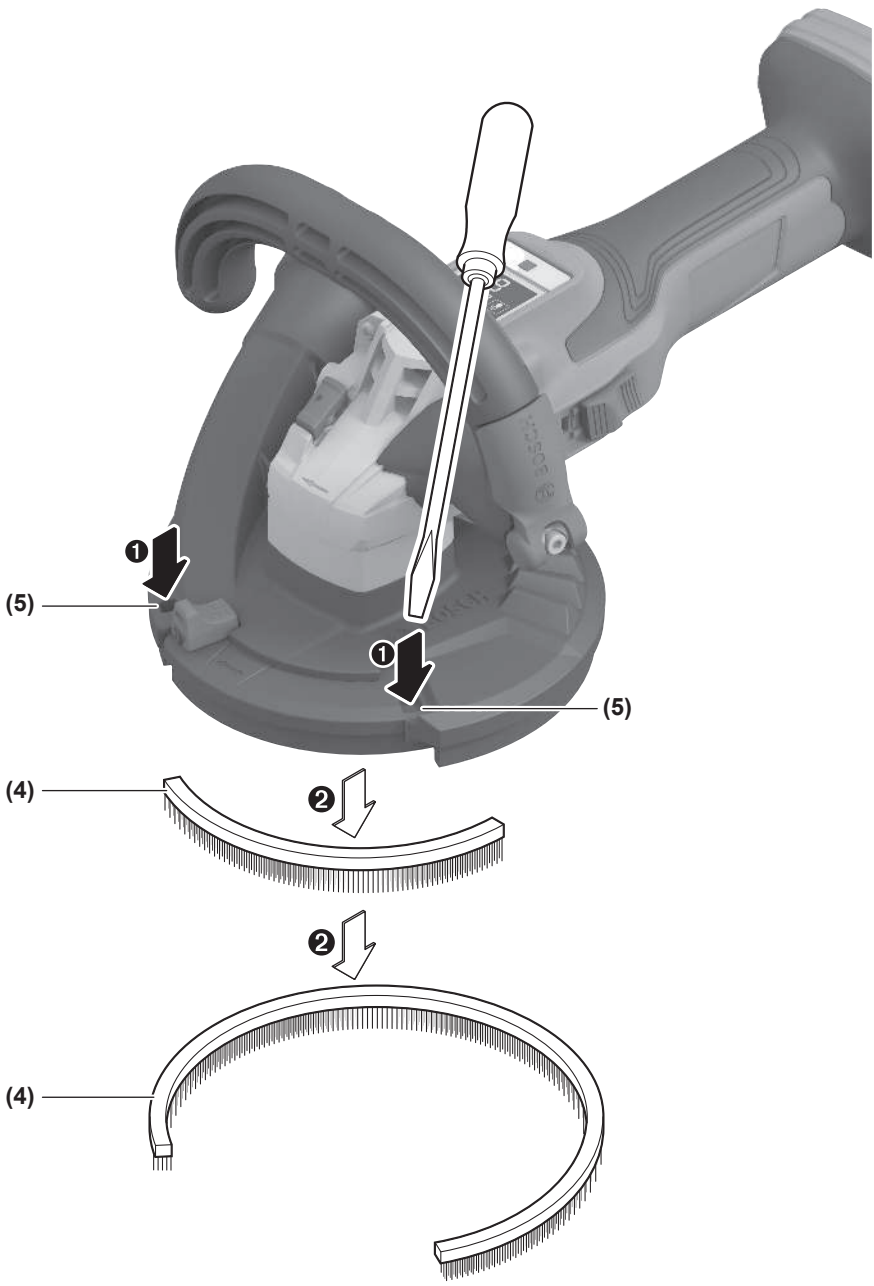


English

Safety Instructions

General Power Tool Safety Warnings

⚠ WARNING **Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

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

- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase 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 a 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 energising 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 and clothing 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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

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 remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **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 and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **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.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130°C may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Safety Warnings for Concrete grinders

Safety warnings common for grinding operations:

- **This power tool is intended to function as a grinder. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- **Operations such as sanding, wire brushing, polishing, hole cutting or cutting-off are not to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- **Do not convert this power tool to operate in a way which is not specifically designed and specified by the tool manufacturer.** Such a conversion may result in a loss of control and cause serious personal injury.
- **Do not use accessories which are not specifically designed and specified by the tool manufacturer.** Just because the 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.
- **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 dimensions of the accessory mounting must fit the dimensions of the mounting hardware of the power tool.** Accessories 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 a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories 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 workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various applications. The dust mask or respirator must be capable of filtrating particles generated by the particular application. 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 accessory 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 tool may contact hidden wiring.** Contact with a "live" wire will also 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 accessory 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.
- ▶ **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

Kickback and related warnings:

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory'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 with both hands on the power tool and position your body and arms 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 the area where power tool will move if kickback occurs.** 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.

Safety warnings specific for grinding operations:

- ▶ **Use only wheel types that are specified for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- ▶ **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- ▶ **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
- ▶ **Wheels must be used only for specified 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 size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- ▶ **Do not use worn down wheels from larger power tools.** A wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.
- ▶ **When using dual purpose wheels always use the correct guard for the application being performed.** Failure to use the correct guard may not provide the desired level of guarding, which could lead to serious injury.

Additional safety information

Wear safety goggles.

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.

- ▶ **Use suitable detectors to determine if there are hidden supply lines or contact the local utility company for assistance.** Contact with electric cables can cause fire and electric shock. Damaging gas lines can lead to explosion. Breaking water pipes causes property damage.
- ▶ **Release the On/Off switch and set it to the Off position when the power supply is interrupted, e.g. when the battery pack is removed.** This prevents uncontrolled restarting.
- ▶ **Do not touch grinding discs until they have cooled down.** The discs can become very hot while working.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **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 rechargeable battery against heat, e.g. including prolonged sun exposure, fire, water, and moisture. There is a risk of explosion and short circuit.

- ▶ **Use a dust extractor when working with stone. The dust extractor must be approved for extracting stone dust.** Use of this equipment can reduce the risks posed by dust.

Safety instructions for diamond grinding heads

- ▶ **Please strictly observe the safety instructions for the power tool used.**
- ▶ **Work only with the dust extraction guard suitable for the power tool used and ensure that it is connected to a suitable vacuum cleaner.**
- ▶ **Diamond grinding heads may only be used for dry applications.**
- ▶ **Choose a diamond grinding head suitable for the material to be worked. Please take note of the instructions regarding materials on the packaging.**
- ▶ **Before assembly, clean the clamping set, spindle and diamond grinding head.**
- ▶ **Pay attention to the dimensions of the diamond grinding head. The diameter of the hole must match that of the mounting flange. Do not use reducers or adapters. The bore in the diamond grinding head must not be extended.**
- ▶ **The permitted maximum speed of the diamond grinding head must match at least the maximum speed of the power tool.**
- ▶ **Check the diamond grinding head before using it. The diamond grinding head must be fitted properly and be able to rotate freely. Carry out a test run for at least one minute with no load. Do not use diamond grinding heads which are damaged, run untrue or vibrate during use.**
- ▶ **Always wear protective goggles, hearing protection, a dust mask, protective gloves and sturdy shoes while working. If necessary, also wear an apron.**
- ▶ **Remove the diamond grinding head before transporting the power tool to avoid damage.**
- ▶ **To obtain the best working results, grind only with low pressure; do not tilt, knock, or penetrate the material.**
- ▶ **Diamond grinding heads can get very hot during work; do not touch them until they have cooled down.**
- ▶ **Only place the power tool down when the diamond grinding head has come to a complete stop.**
- ▶ **Use the two-hole spanner to tighten and loosen the clamping nut 3 607 950 016.**
- ▶ **Observe valid national and international standards.**

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 grinding, deburring and smoothing mainly mineral materials (such as concrete, stone, marble and screed). It is also suitable for removing protective coating and adhesive residue. The power tool may be used only in conjunction with a diamond cup wheel and a dust extractor of dust category M.

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) Adjustable auxiliary handle (insulated gripping surface)
(3) Protective guard and extraction hood
(4) Two-part brush collar
(5) Recess
(6) Movable part of the protective guard
(7) Locking mechanism
(8) Extraction outlet
(9) Spindle lock button
(10) Extraction hose[a)]
(11) Handle (insulated gripping surface)
(12) Grinding spindle
(13) Mounting flange with O-ring
(14) Diamond cup wheel
(15) Clamping nut
(16) Two-pin spanner for clamping nut
(17) Clamping lever on auxiliary handle
(18) Screw on the clamping lever on the auxiliary handle
(19) Rechargeable battery[a)]
(20) Battery release button[a)]
(21) User interface
(22) Battery charge indicator (user interface)
(23) Kickback shutdown indicator (user interface)
(24) Speed preselection button (user interface)
(25) Speed setting/mode indicator (user interface)
(26) Power tool status indicator (user interface)
(27) Temperature indicator (user interface)

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

Technical Data

Concrete grinder		GBR 18V-15 S
Article number		**3 601 G76 2..**
Rated voltage	V=	18
Rated no-load speed[A)]	min^{-1}	8500
Speed adjustment range	min^{-1}	2600–8500
Diamond cup wheel diameter	mm	125
Grinding spindle thread		M 14
Kickback stop		●
Drop control		●
Restart protection		●
Soft start		●
Overload protection		●
Run-out brake		●
Grinding close to edges		●
Speed preselection		●
Weight[B)]	kg	2.6
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation[C)] and during storage	°C	–20 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended rechargeable batteries for maximum performance		ProCORE18V... ≥ 5.5 Ah EXPERT18V... ≥ 5.5 Ah
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) Rated no-load speed for the selection of appropriate accessory in accordance with EN IEC 62841-2-3. The actual no-load speed must not exceed the rated no-load speed and is therefore lower.

B) with mounting flange **(13)** and clamping nut **(15)**, without battery (you can find the battery weight on www.bosch-professional.com)

C) 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.

Noise/Vibration Information

Noise emission values determined according to **EN IEC 62841-2-3**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **82** dB(A); sound power level **90** dB(A). Uncertainty K = **3** dB.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_F (repeated shock vibrations) and uncertainty K determined according to **EN IEC 62841-2-3**:

$a_{h,\,CG}$ = **5.2** m/s^2, K = **1.5** m/s^2,

$p_{F,\,CG}$ = **151** m/s^2 (K = **29** m/s^2).

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and may be used to compare power tools. They may also be used for a preliminary estimation of vibration and noise emissions.

The stated vibration level and noise emission value represent the main applications of the power tool. However, if the power tool is used for other applications, with different accessories or is poorly maintained, the vibration level and noise emission value may differ. This may significantly increase the vibration and noise emissions over the total working period.

To estimate vibration and noise emissions 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 may significantly reduce vibration and noise emissions 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 accessories, keeping their hands warm, and organising workflows correctly.

Kickback control

If there is a sudden kickback in the power tool, e.g. jamming in a grinding process, the power supply to the motor will be interrupted electronically. The kickback control indicator **(23)** then lights up. When kickback control is activated, the status indicator **(26)** flashes red.

To **restart** the tool, set the on/off switch**(1)** to the off position and then switch the power tool on again.

Drop control

The integrated drop control switches the power tool off as soon as it hits the floor. The status indicator **(26)** then flashes red.

To **restart** the tool, set the on/off switch **(1)** to the "off" position and then switch the power tool on again.

Restart protection

The restart protection feature prevents the power tool from uncontrolled starting after the power supply to it has been interrupted. When restart protection is activated, the status indicator **(26)** flashes red.

To **restart** the tool, set the on/off switch **(1)** to the "off" position and then switch the power tool on again.

Soft start

The electronic soft start limits the torque when the power tool is switched on and enables a smooth start-up.

Note: If the power tool runs at full speed immediately after being switched on, this means that the soft start and restart protection mechanisms have failed. The power tool must be sent to the after-sales service immediately; see the "After-Sales Service and Application Service" section for addresses.

Overload protection

When overloaded, the motor comes to a stop. Allow the power tool to cool down unloaded at its maximum no-load speed for approx. 1 minute.

Run-out brake

The power tool is fitted with the electronic Bosch Brake System. When it is switched off, the abrasive tool is brought to a complete stop within a few seconds. This means that the run-out time is significantly shorter than for concrete grinders without a run-out brake and enables the power tool to be set down sooner.

Grinding close to edges (see figure C)

For grinding close to edges, push the lock **(7)** forwards (❶) and swivel the movable part of the protective guard **(6)** sideways (❷). Engage the lock **(7)** (❸).

User interface (see figure A)

The user interface **(21)** is used to preselect the speed and to indicate the status of the power tool.

Speed preselection

There are three selectable preset speed settings. You can use the button for speed preselection **(24)** to preselect the required speed, even during operation. The figures in the table below are recommended values.

Material	Application	Speed preselection level	[min^{-1}]
Soft substrates	For removal of e.g. protective paint and adhesive residues on mineral-based substrates	1	2600
Medium-hard substrates	For removal of e.g. screed, tile adhesive	2	5000
Hard substrates	For removal of e.g. concrete, stone, marble	3	8500

The specified speed setting values depend on the rechargeable battery in use, the battery's state of charge and the power tool's operating temperature.

▶ **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.

Status indications

Battery charge indicator (user interface) (22)	Meaning/cause	Solution
Green	Battery charged	–
Yellow	Battery almost empty	Replace or charge battery soon
Red	Battery empty	Replace or charge battery

Temperature indicator (27)	Meaning/cause	Solution
Yellow	Critical temperature has been reached (motor, electronics, battery)	Run the power tool at no load and allow it to cool down
Red	Power tool is overheated and will switch off	Leave the power tool to cool down

Power tool status indicator (26)	Meaning/cause	Solution
Green	Status OK	–

Power tool status indicator (26)	Meaning/cause	Solution
Yellow	Critical temperature has been reached or rechargeable battery is almost empty	Run the power tool at no load and allow it to cool down, or replace or charge the battery soon
Illuminated red	Power tool has overheated or rechargeable battery is empty	Allow the power tool to cool down, or replace or charge the battery
Flashing red	Kickback shutdown, impact shutdown or restart protection has been triggered	Switch the power tool off and on again

Rechargeable battery

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

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

Removing the Battery

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

The rechargeable battery has two locking levels to prevent the battery from falling out if the battery release button is pressed unintentionally. The rechargeable battery is held in place by a spring when fitted in the power tool.

Battery charge indicator

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 On 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.

The state of charge of the battery is also displayed on the user interface (see "Status indications", page 11).

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... | EXPERT18V... | EXBA18V... | CORE18V...

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 defect risk detection

EXPERT18V... | EXBA18V...

In addition to the state of charge of the rechargeable battery, the LEDs on the battery charge indicator can also indicate the risk of a battery defect.

To activate the function, press and hold the button for the battery charge indicator for 3 seconds. The analysis of the battery is signalled by a moving light on the battery charge indicator. The result of is shown on the battery charge indicator.

1 LED: The rechargeable battery has a high defect risk. Performance and runtime may already be reduced. Replacing the rechargeable battery is recommended.

5 LEDs: The rechargeable battery is in good condition and has a low defect risk.

Please note: The rechargeable battery defect risk assessment works in a binary manner and offers a simplified status assessment, indicating either that the rechargeable battery is in good condition or that the rechargeable battery has an

increased defect risk. A percentage of the battery status is not shown.

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

▶ **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.

Mounting/changing the diamond cup wheel (see figure B)

Permissible grinding tool

All diamond cup wheels mentioned in these operating instructions can be used.

Pay attention to the dimensions of the diamond cup wheel. The diameter of the hole must match that of the mounting flange. The mounting hole of the diamond cup wheel may not be enlarged. Do not use an adapter or reducer.

The permissible speed [min^{-1}] or the circumferential speed [m/s] of the diamond cup wheels used must at least match the values given in the following table.

Therefore, observe the permissible **rotational/circumferential speed** on the label of the diamond cup wheel.

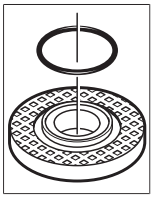
	max. [mm]	[mm]		
	D	d	[min^{-1}]	[m/s]
	125	22.2	8500	80

Mounting the diamond cup wheel

Choose a diamond cup wheel suitable for the material to be worked. Please also observe the material information on the packaging of the diamond cup wheel.

Clean the grinding spindle **(12)** and all parts to be mounted.

Place the mounting flange **(13)** on the grinding spindle **(12)** so that the centring collar is on the outside. The mounting flange **(13)** must engage on the flats of the grinding spindle **(12)** (anti-twist protection).



A plastic part (O-ring) is fitted around the centring collar in the mounting flange **(13)**. **If the O-ring is missing or damaged,** the mounting flange **(13)** must be replaced before operation can resume.

Place the diamond cup wheel **(14)** on the mounting flange **(13)**.

Press the spindle lock button **(9)** to lock the grinding spindle.

Screw on the clamping nut **(15)** and tighten it with the two-pin spanner **(16)**.

Ensure that the collar of the clamping nut **(15)** faces outwards, as shown in the figure.

▶ **After mounting the diamond cup wheel and before switching on, check that the diamond cup wheel is correctly mounted and that it can turn freely. Make sure that the diamond cup wheel does not graze against the protective guard and extraction hood or other parts.**

Changing the diamond cup wheel

When transporting the power tool, the diamond cup wheel **(14)** should be removed to avoid damage to it.

▶ **Do not touch the diamond cup wheel until it has cooled down.** Diamond cup wheels become very hot whilst working.

Press the spindle lock button **(9)** to lock the grinding spindle.

▶ **Do not press the spindle lock button while the grinding spindle is moving.** The power tool may become damaged if you do this.

Loosen the clamping nut **(15)** with the two-pin spanner **(16)** and unscrew the clamping nut **(15)**. Remove the diamond cup wheel **(14)**.

Adjusting the Auxiliary Handle

Open the clamping lever **(17)**. Swivel the adjustable auxiliary handle **(2)** forwards or backwards to the required set-up position. Close the clamping lever **(17)**.

If the pre-tensioning force of the clamping lever **(17)** is too low, it can be tightened using the screw on the clamping lever **(18)**.

Dust/Chip Extraction

Do not perform work without taking dust-reducing measures. Using a suitable dust extraction attachment will reduce exposure to harmful dust. Provide good ventilation at the workplace. Always use suitable breathing protection. Use a dust extraction system that is suitable for the material wherever possible. The regulations on the materials being machined that apply in the country of use must be observed.

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

Requirements for the Dust Extractor		
Recommended hose nominal diameter	mm	**28**
Required vacuum pressure[A)]	mbar hPa	≥ **140** ≥ **140**
Required flow rate[A)]	l/s m^3/h	≥ **23** ≥ **82.8**
Recommended filter efficiency		Dust class M[B)]

A) Power value at the power tool's dust extractor connection

B) According to IEC/EN 60335-2-69

Refer to the dust extractor's instructions. If there is reduced suction power, stop working and eliminate the cause.

External dust extraction

The dust extractor must be approved for extracting stone dust. Suitable dust extractors are available from Bosch.

To achieve a high level of dust extraction, use the GAS 35 M AFC or GAS 55 M AFC dust extractor for mineral dust together with this power tool.

Connect an extraction hose **(10)** (accessory) to the extraction outlet **(8)**. Connect the dust extraction hose **(10)** to a dust extractor (accessory). You will find an overview of how to connect to a dust extractor at the end of these operating instructions.

We recommend using anti-static hoses and dust extractors.Whilst it is possible to use standard hoses and dust extractors, this is not recommended due to a potential static charge accumulation.

Notes for the use of concrete grinders

Please observe the following notes in order to reduce the dust emissions occurring while working.

- Only use combinations of diamond cup wheels, concrete grinders with mounted protective guard and extraction hood as well as dust category M dust extractors that are recommended by Bosch. Other combinations may lead to worse collection and separation of dust.
- Observe the operating instructions of the for maintenance and cleaning of the dust extractor, including the filter. Empty dust collection containers immediately once full. Clean the dust extractor filters regularly and always insert the filters completely into the dust extractor.
- Only use the extraction hoses intended by Bosch. Do not manipulate the extraction hose. If pieces of rock are drawn into the extraction hose, stop working and clean the extraction hose immediately. Prevent the extraction hose from being bent or creased.
- Use the concrete grinder only as intended.
- Observe the general requirements for construction site workplaces.
- Ensure good ventilation.
- Ensure that the working area is free of obstructions. For longer jobs, the dust extractor must be guided along in time, without obstructions in the path.
- Wear hearing protection, protective goggles, dust mask and gloves as required. Use at least an FFP 2 protection class particle-filtering half mask.
- Use a suitable vacuum cleaner for cleaning the workplace. Prevent settled dust from being swirled up by sweeping.

Operation

Starting Operation

Switching On and Off

To **start** the power tool, slide the on/off switch **(1)** forwards.

To **lock** the on/off switch **(1)** in position, press the on/off switch **(1)** down at the front until it clicks into place.

To **switch off** the power tool, release the on/off switch **(1)** or, if the switch is locked, briefly press the on/off switch **(1)** down at the back and then release it.

▶ **Always check abrasive tools before using them. The abrasive tool must be fitted properly and be able to move freely. Carry out a test run for at least one minute with no load. Do not use abrasive tools that are damaged, run untrue or vibrate during use.** Damaged abrasive tools can burst apart and cause injuries.

Working Advice

▶ **Clamp the workpiece if it is not secure under its own weight.**

▶ **Do not load the power tool so heavily that it comes to a stop.**

▶ **Do not touch the diamond cup wheel until it has cooled down.** Diamond cup wheels become very hot whilst working.

Apply the power tool to the workpiece only when switched on.

Move the power tool using moderate pressure flat on the workpiece in a circular motion or alternately along and across it. For removal of coatings, the power tool can also be guided at a small angle to the workpiece surface without a reduction of the dust extraction capacity.

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.**

A blunt diamond cup wheel **(14)** can be resharpened by briefly grinding abrasive material (e.g. lime-sand brick).

Store and handle the accessories carefully.

Replacing the Brush Collar

To ensure optimal dust extraction, change a worn brush collar in good time.

Press (for example with a screwdriver) into both openings **(5)** in the protective guard. You can remove both parts of the brush collar **(4)** from under the power tool. (see figure **D**)

Carefully push the two new parts of the brush collar **(4)** into the brush guide as far as they will go. When inserting the new brush collar, ensure that the ends of the brush collar are not positioned in one of the openings of the brush guide.

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

Malaysia
Tel.: (03) 79663194

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.

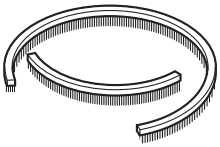
Disposal

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:

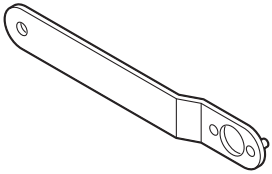
Electrical and electronic equipment or used batteries that are no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems. Incorrect disposal may cause harmful effects on the environment and human health, due to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



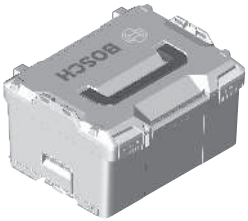
2 608 620 692

1 605 703 099

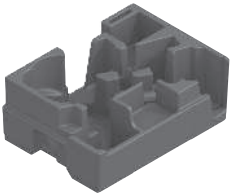
1 603 340 040



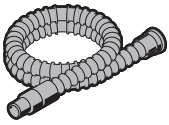
3 607 950 016



1 600 A01 2G2

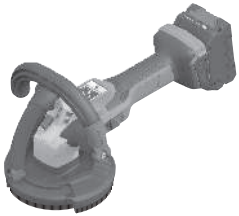


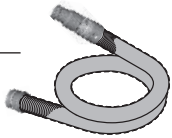
1 600 A03 94P



Ø 28 mm:
2 608 000 772 (3 m)

GAS 18V-12 MC

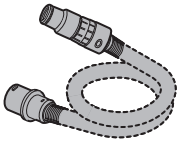




Ø 28 mm:
2 608 000 885 (4 m)

GAS 12-40 MA

GAS 35 M AFC



Ø 35 mm:
2 608 000 569 (3 m)
2 608 000 565 (5 m)

GAS 55 M AFC

Ø 35 mm:
2 608 000 570 (3 m)
2 608 000 566 (5 m)

Legal Information and Licenses

Warranty Disclaimer
This product contains Open Source Software components which underly Open Source Software Licenses. Please note that Open Source Licenses contain disclaimer clauses. The text of the Open Source Licenses that apply are included in this manual under "Legal Information and Licenses".

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Contactos de Servicio

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