



**Professional** **HEAVY DUTY**

**GRD 18V-127 | GRD 18V-127 HX**

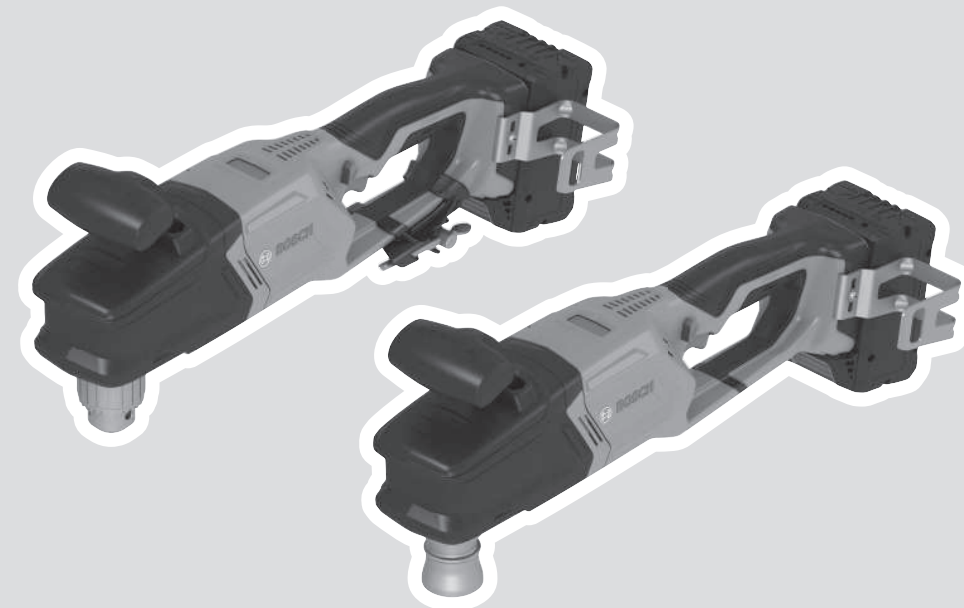
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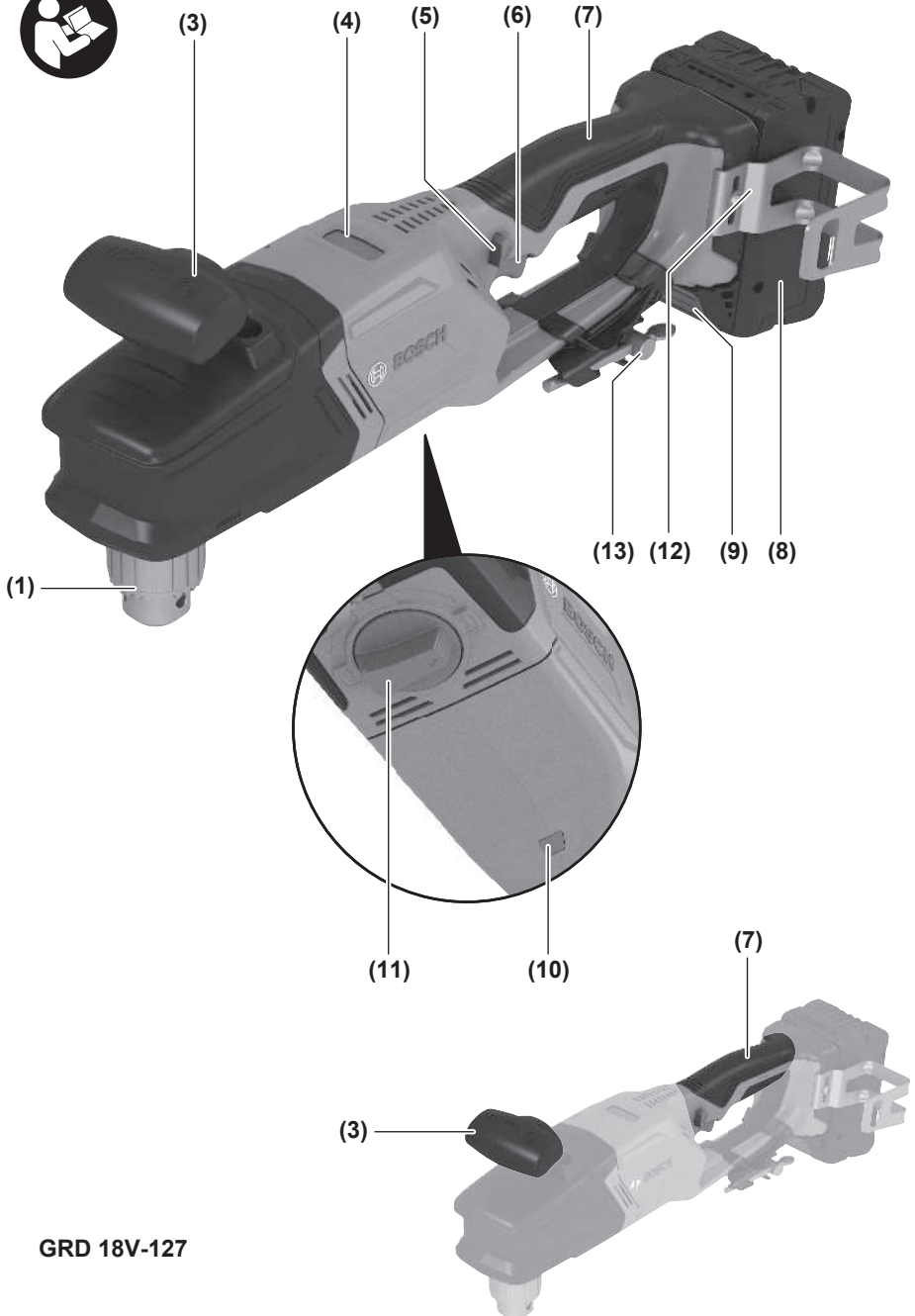
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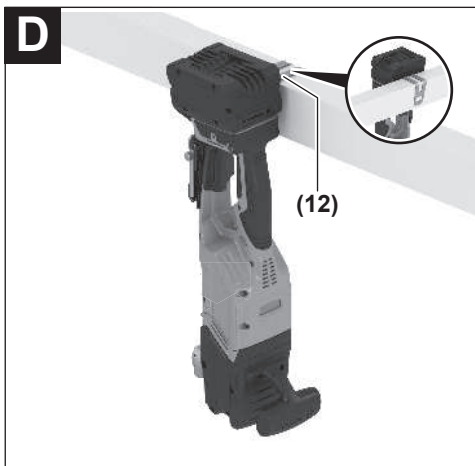
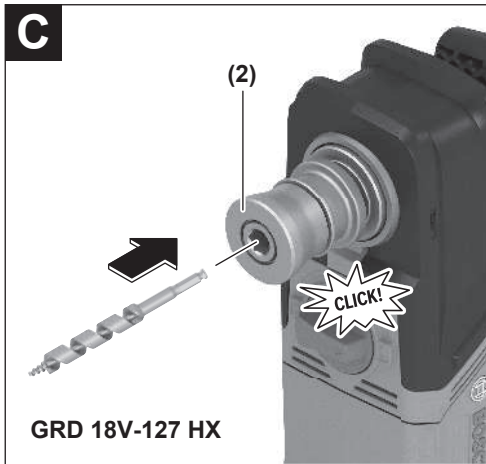
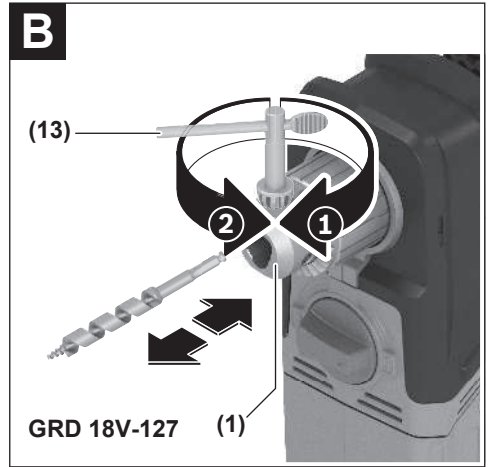
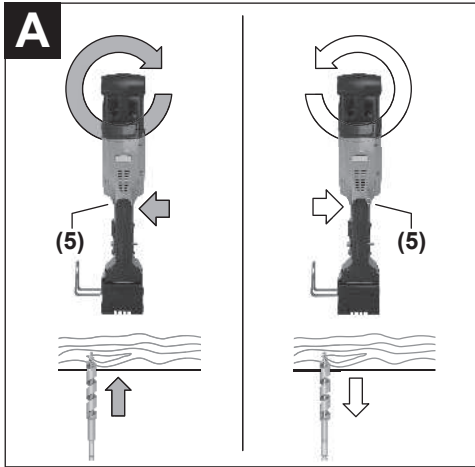




GRD 18V-127



**GRD 18V-127 HX**



# 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 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 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 Drills

### Safety instructions for all operations

- ▶ **Hold the power tool by insulated gripping surfaces, 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.

### Safety instructions when using long drill bits

- ▶ **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage or loss of control, resulting in personal injury.

### Additional safety warnings

- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Switch the power tool off immediately if the application tool becomes blocked. Be prepared for high torque reactions which cause kickback.** The application tool becomes blocked when it becomes jammed in the workpiece or when the power tool becomes overloaded.
- ▶ **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.
- ▶ **Always wait until the power tool has come to a complete stop before placing it down.** The application tool can jam and cause you to lose control of the power tool.
- ▶ **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.

## 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 suitable for drilling in wood and metal.

### Product Features

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

- (1) Keyed chuck (**GRD 18V-127**)

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>(2) Hex keyless chuck (<b>GRD 18V-127 HX</b>)</li> <li>(3) Top handle (insulated gripping surface)</li> <li>(4) Rapid shut-off (KickBack Control)</li> <li>(5) Rotational direction switch</li> <li>(6) On/off switch</li> <li>(7) Handle (insulated gripping surface)</li> </ul> | <ul style="list-style-type: none"> <li>(8) Rechargeable battery<sup>a)</sup></li> <li>(9) Battery release button</li> <li>(10) Worklight</li> <li>(11) Gear selector switch</li> <li>(12) Hook</li> <li>(13) Chuck key (<b>GRD 18V-127</b>)</li> </ul> |
|--|--|

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

## Technical Data

Cordless right angle drill		GRD 18V-127	GRD 18V-127 HX
Article number		<b>3 601 JN5 0..</b>	<b>3 601 JN5 1..</b>
Rated voltage	V	18	18
Rated no-load speed $n_0$ <sup>A)B)</sup>			
– first gear	min <sup>-1</sup>	0–550	0–550
– second gear	min <sup>-1</sup>	0–1800	0–1800
Max. drilling diameter in wood (1st/2nd gear)			
– Auger bit	mm	38/32	38/32
– Hole saw with self-feed drill bit	mm	65/51	65/51
– Hole saw	mm	127/102	127/102
Max. drilling diameter in steel (1st/2nd gear)			
– Twist drill bit	mm	13/8	13/8
Weight <sup>C)</sup>	kg	3.1	3.0
Recommended ambient temperature during charging	°C	0 to +35	0 to +35
Permitted ambient temperature during operation and during storage	°C	–20 to +50	–20 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...	
Recommended rechargeable batteries for maximum performance		ProCORE18V... ≥ 5.5 Ah EXPERT18V...	
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...	

A) Measured at 20–25 °C with rechargeable battery **ProCORE18V 8.0Ah**

B) Rated no-load speed for the selection of appropriate accessory in accordance with IEC 62841-2-1. The actual speed is lower for safety reasons.

C) Without rechargeable battery (you can find the battery weight at [www.bosch-professional.com](http://www.bosch-professional.com))

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 62841-2-1**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **87 dB(A)**; sound power level **95 dB(A)**. Uncertainty K = **5 dB**.

**Wear hearing protection!**

Vibration values  $a_{h,D}$  (continuous vibrations),  $p_f$  (repeated shock vibrations) and uncertainty  $K$  determined according to **EN 62841-2-1**:

#### Handle:

Drilling in metal:  $a_{h,D} = 1.2 \text{ m/s}^2$  ( $K = 1.5 \text{ m/s}^2$ ),  $p_{f,D} = 88 \text{ m/s}^2$ , ( $K = 3 \text{ m/s}^2$ )

#### Top handle:

Drilling in metal:  $a_{h,D} = 1.2 \text{ m/s}^2$  ( $K = 1.5 \text{ m/s}^2$ ),  $p_{f,D} = 56 \text{ m/s}^2$ , ( $K = 11 \text{ m/s}^2$ )

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.

## 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  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... | 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.
- ▶ **Wear protective gloves when changing tools.** The application tool and the drill chuck can become hot when used for long periods.

## Changing the tool

### Keyed chuck (GRD 18V-127) (see figure B)

Open the keyed chuck (1) by turning it until the tool can be inserted. Insert the tool.

Insert the drill chuck key (13) into the corresponding holes of the keyed chuck (1) and clamp the tool evenly.

### Hex keyless chuck (GRD 18V-127 HX) (see figure C)

Push the tool all the way into the tool holder of the hex keyless chuck (2). The tool is securely in place when you hear a clicking noise.

To remove the tool, pull back the ring of the hex keyless chuck (2). Take the tool out of the tool holder and release the hex keyless chuck (2).

## Changing the drill chuck

- ▶ If your power tool does not have a drill spindle locking mechanism, you must have the drill chuck changed by an authorised after-sales service centre for **Bosch** power tools.

## 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	<b>35</b>
Required vacuum pressure <sup>A)</sup>	mbar hPa	≥ <b>230</b> ≥ <b>230</b>
Required flow rate <sup>A)</sup>	l/s m <sup>3</sup> /h	≥ <b>36</b> ≥ <b>129.6</b>
Recommended filter efficiency		Dust class M <sup>B)</sup>

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.

## Hook (see figure D)

- ▶ The hook is intended solely for the purpose of hanging the power tool, including fitted accessories.
- ▶ To avoid damage or injury, the suspension device must not be attached above walkways or immediate work areas.

You can use the hook (12) to hang the power tool from a beam, for example.



**The screw of the hook must be tightened using a tightening torque of approx. 2.0–2.5 Nm.**

The hook can be fitted on either side of the power tool.

## Operation

### Setting the rotational direction (see figure A)

The rotational direction switch (5) is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch (6) is being pressed.



**Rotate clockwise:** Slide the rotational direction switch (5) on both sides until it stops in the ← position.



**Rotate anticlockwise:** Slide the rotational direction switch (5) on both sides until it stops in the → position.

### Mechanical gear selection

- ▶ **Only operate the gear selector (11) when the power tool is not in use.**
- ▶ **Always turn the gear selector switch as far as it will go.** Otherwise, the power tool may become damaged.

#### First gear:

Low speed range; for working with a large drilling diameter.

#### Second gear:

High speed range; for fast working with a small drilling diameter.

## Switching on/off

To **start** the power tool, press and hold the on/off switch **(6)**.

The LED **(10)** lights up when the on/off switch **(6)** is lightly or fully pressed, meaning that the work area is illuminated in poor lighting conditions.

To **switch off** the power tool, release the on/off switch **(6)**.

## Adjusting the speed

You can adjust the speed of the power tool when it is on by pressing in the on/off switch **(6)** to varying extents.

A light pressure on the on/off switch **(6)** results in a low rotational speed. Increased pressure on the switch causes an increase in speed.

## Rapid Shut-off (KickBack Control)



**The rapid shut-off function (KickBack Control) gives the user greater control over the power tool and offers them better protection than**

**power tools that do not have KickBack Control. The power tool will switch off if it suddenly and unforeseeably rotates around the drilling axis.**

The triggering of the rapid shut-off is indicated by the control LED for KickBack Control **(4)** flashing white and the worklight **(10)** flashing on the power tool.

To **switch the power tool back on**, release the on/off switch and then press it again.

- ▶ **It will no longer be possible to switch the power tool on if the KickBack Control function is faulty. Have the power tool serviced by a qualified repair person using only original replacement parts.**

Please note that the warning light is not visible from all directions. The warning light is difficult to see in bright sunlight.

## 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.**

### 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

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.



**1 600 A03 1N5**



**1 600 A02 3G7**

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