

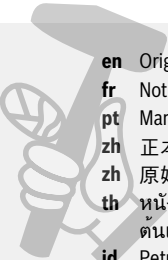


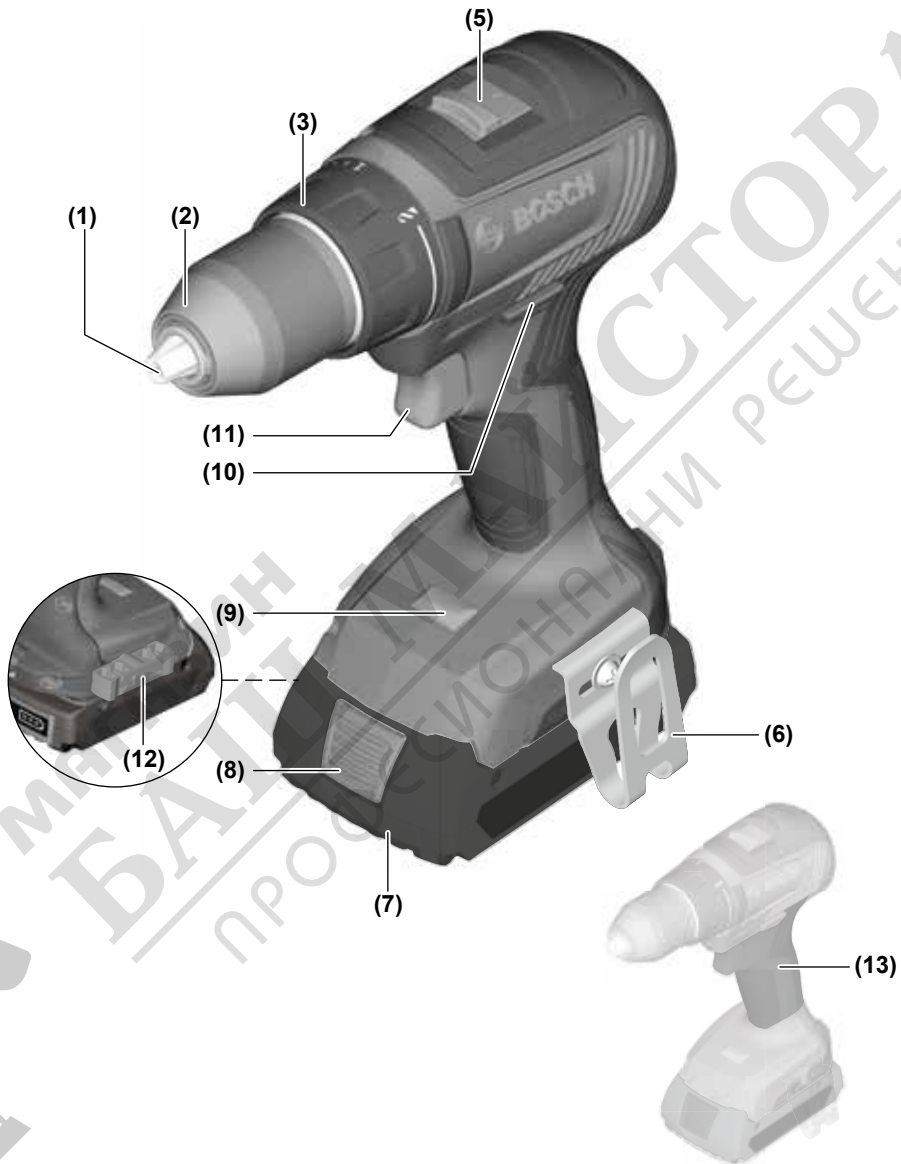
# GSR | GSB Professional

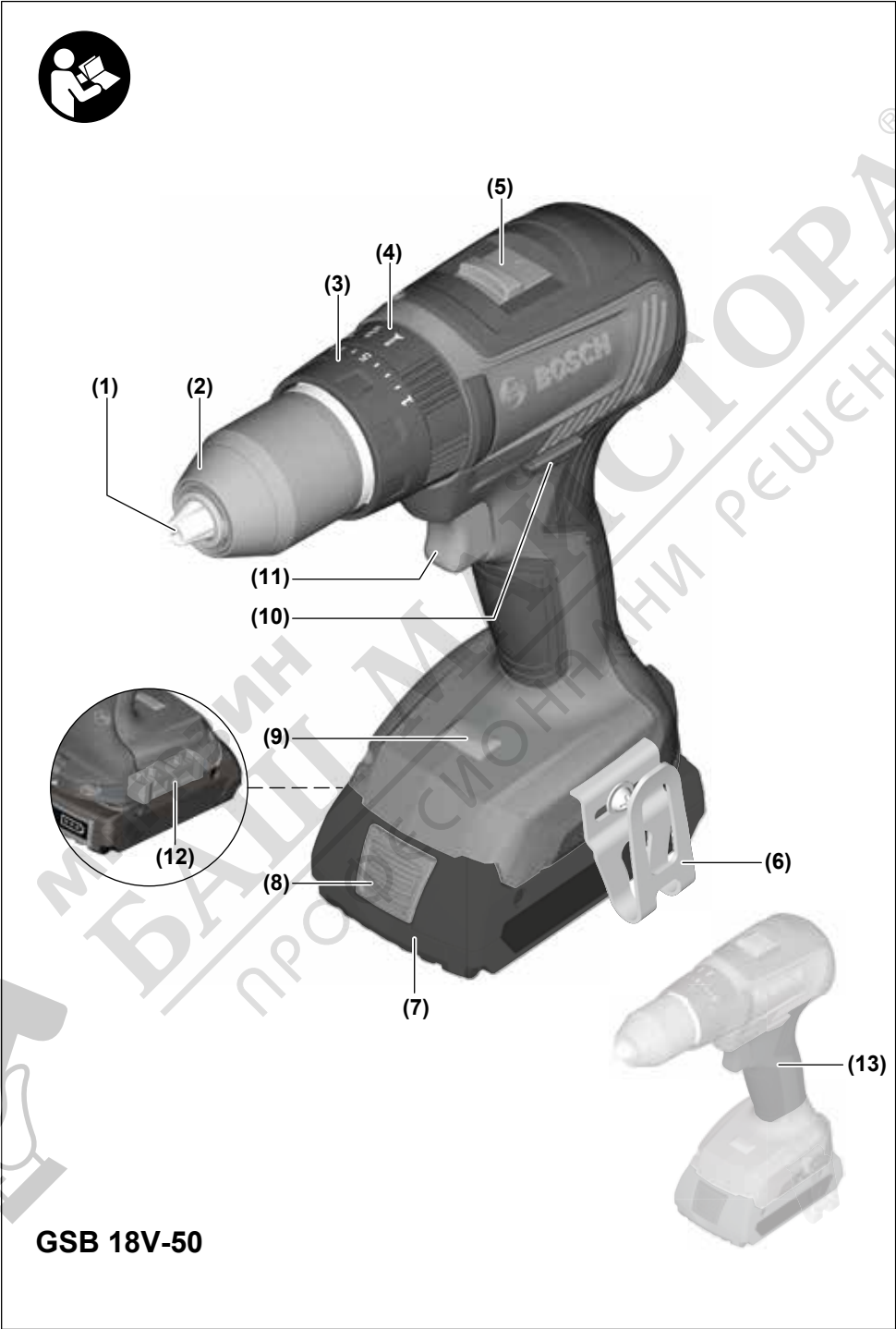
GSR | GSB 18V-50



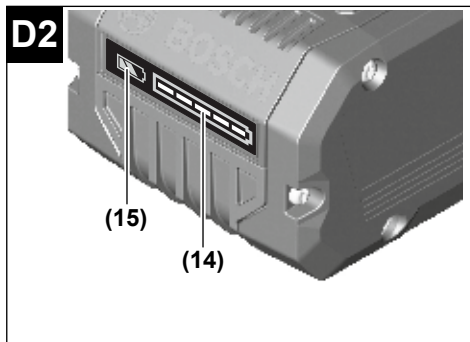
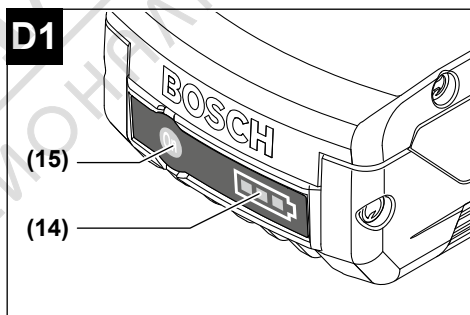
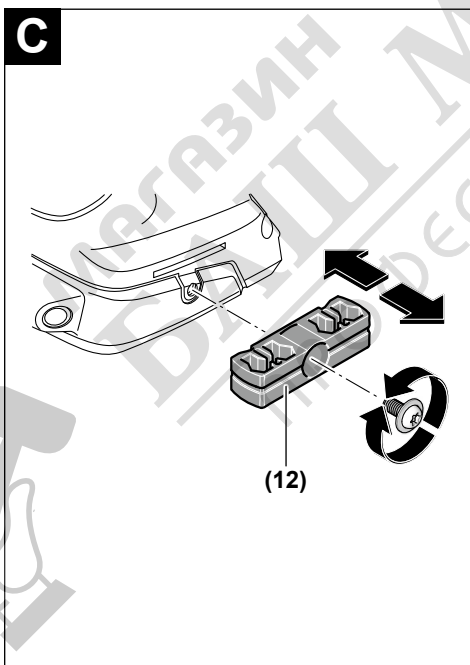
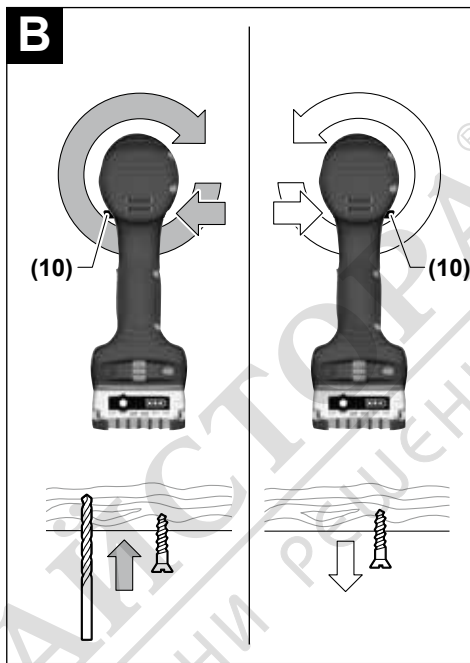
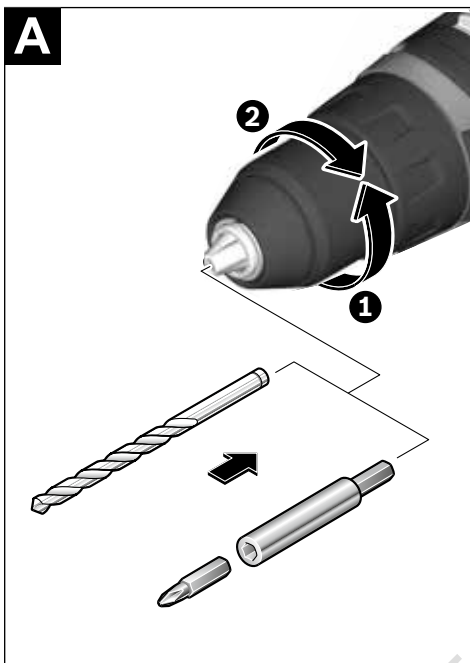
**BOSCH**

- 
- en** Original instructions
  - fr** Notice originale
  - pt** Manual original
  - zh** 正本使用说明书
  - zh** 原始使用說明書
  - th** หนังสือคู่มือการใช้งานฉบับต้นแบบ
  - id** Petunjuk-Petunjuk untuk Penggunaan Orisinal
  - vi** Bản gốc hướng dẫn sử dụng
  - ar** دليل التشغيل الأصلي
  - fa** دفترچه راهنمای اصلی

**GSR 18V-50**



**GSB 18V-50**



# 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

- ▶ **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 inatten-

tion 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 information for drills and screwdrivers

#### Safety instructions for all operations

##### GSB

- ▶ **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.

#### GSB / GSR

- ▶ **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring.** Cutting accessory or fasteners 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

- ▶ **Hold the power tool securely.** When tightening and loosening screws be prepared for temporarily high torque reactions.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **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 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 with products from the manufacturer.** 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.

- **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.

## 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 driving and loosening screws and for drilling in wood, metal, ceramic and plastic. The GSB is also designed for impact drilling in brick, masonry and stone.

## Product features

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

- (1) Tool holder
- (2) Keyless chuck
- (3) Torque presetting ring
- (4) Mode selector switch (GSB)
- (5) Gear selector switch
- (6) Belt clip
- (7) Battery<sup>A)</sup>
- (8) Battery release button<sup>A)</sup>
- (9) Worklight (LED)
- (10) Rotational direction switch
- (11) On/off switch
- (12) Bit holder<sup>A)</sup>
- (13) Handle (insulated gripping surface)
- (14) Battery charge indicator<sup>A)</sup>
- (15) Button for battery charge indicator<sup>A)</sup>

A) **Accessories shown or described are not included with the product as standard. You can find the complete selection of accessories in our accessories range.**

## Technical data

Cordless Drill/Driver Combination Cordless Drill		GSR 18V-50	GSB 18V-50
Article number		<b>3 601 JH5 0..</b>	<b>3 601 JH5 1..</b>
Rated voltage	V=	18	18
No-load speed <sup>A)</sup>			
– First gear	min <sup>-1</sup>	0–460	0–460
– Second gear	min <sup>-1</sup>	0–1 800	0–1 800
Impact rate <sup>A)</sup>	min <sup>-1</sup>	–	0–27 000
Max. torque hard/soft screwdriving applications <sup>A)</sup>	Nm	50/28	50/28
Max. drilling diameter (first/second gear)			
– Wood	mm	35	35
– Steel	mm	13	13
– Masonry	mm	–	13
Chuck capacity	mm	1.5–13	1.5–13
Screw diameter max	mm	10	10
Weight according to EPTA-Procedure 01:2014 <sup>A)</sup>	kg	1.4–2.4	1.4–2.5
Permitted ambient temperature			
– during charging	°C	0 ... +35	0 ... +35
– during operation <sup>B)</sup> and during storage	°C	-20 ... +50	-20 ... +50
Recommended batteries		GBA 18V... ProCORE18V...	GBA 18V... ProCORE18V...

Cordless Drill/Driver Combination Cordless Drill	GSR 18V-50	GSB 18V-50
Recommended chargers	GAL 18... GAX 18... GAL 36...	GAL 18... GAX 18... GAL 36...

- A) Depends on battery in use  
B) Limited performance at temperatures <0 °C

## Noise/Vibration Information

		GSR 18V-50	GSB 18V-50
Noise emission values determined according to <b>EN 62841-2-1</b> .			
Typically, the A-weighted noise level of the power tool is			
Sound pressure level	dB(A)	<b>72.5</b>	<b>88</b>
Sound power level	dB(A)	<b>83.5</b>	<b>99</b>
Uncertainty K	dB	<b>5</b>	<b>5</b>
<b>Wear hearing protection</b>			
Vibration total values $a_h$ (triax vector sum) and uncertainty K determined according to <b>EN 62841-2-1</b> .			
Drilling in metal:			
$a_h$	$m/s^2$	<b>2</b>	<b>1</b>
K	$m/s^2$	<b>1.5</b>	<b>1.5</b>
Impact drilling into concrete:			
$a_h$	$m/s^2$	–	<b>11</b>
K	$m/s^2$	–	<b>1.5</b>

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 application tools 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 application tools, keeping their hands warm, and organising workflows correctly.

## Assembly

- **Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be re-**

**moved for transport and storage.** There is risk of injury from unintentionally pressing the on/off switch.

## 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:** The battery is supplied partially charged. To ensure full battery capacity, fully charge the battery in the charger before using your power tool for the first time.

The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging process does not damage the battery.

The lithium-ion battery is protected against deep discharge by the "Electronic Cell Protection (ECP)". When the battery is discharged, the power tool is switched off by means of a protective circuit: The application tool no longer rotates.

Follow the instructions on correct disposal.

## Removing the Battery

The battery (7) is equipped with two locking levels to prevent the battery from falling out when pushing the battery release button (8) unintentionally. As long as the battery is inserted in the power tool, it is held in position by means of a spring.

To remove the battery (7), press the release button (8) and pull the battery out of the power tool. **Do not use force to do this.**



## Battery Charge Indicator

The green LEDs on the battery charge indicator **(14)** indicate the state of charge of the battery **(7)**. For safety reasons, it is only possible to check the state of charge when the power tool has been stopped.

Press the battery charge indicator button **(15)** to show the state of charge. This is also possible when the battery is removed.

If no LED lights up after pressing the battery charge indicator button **(15)**, the battery is defective and must be replaced.

### Battery Model GBA 18V... (see figure D1)

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

### Battery Model ProCORE18V... (see figure D2)

LEDs	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 %

## Changing the tool (see figure A)

- **Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be removed for transport and storage.** There is risk of injury from unintentionally pressing the on/off switch.

The drill spindle is locked when the on/off switch **(11)** is not pressed. This makes it possible to change the application tool in the drill chuck quickly, conveniently and easily.

Open the keyless chuck **(2)** by turning it in the direction of rotation **⌚** until the tool can be inserted. Insert the tool.

Firmly tighten the keyless chuck **(2)** by turning it by hand in the direction of rotation **⌚**. This will automatically lock the drill chuck.

## 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.

## Operation

### Starting Operation

#### Inserting the battery

**Note:** The use of batteries unsuitable for your power tool can lead to malfunctions or damage to the power tool.

Push the charged battery **(7)** into the base of the power tool from the front until the battery is securely locked.

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

The rotational direction switch **(10)** is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch **(11)** is being pressed.

**Right rotation:** To drill and to drive in screws, press the rotational direction switch **(10)** through to the left stop.

**Left Rotation:** To loosen and unscrew screws and nuts, press the rotational direction switch **(10)** through to the right stop.

#### Setting the Operating Mode



#### Drilling

##### GSR

Set the torque presetting ring **(3)** to the "drilling" symbol.

##### GSB

Set the mode selector switch **(4)** to the "drilling" symbol.



#### Screwdriving

##### GSR

Set the torque presetting ring **(3)** to the required torque.

##### GSB

Set the mode selector switch **(4)** to the "screw-driving" symbol.



#### Impact drilling (GSB)

Set the mode selector switch **(4)** to the "impact drilling" symbol.

#### Switching on/off

To **start** the power tool, press and hold the on/off switch **(11)**.

The LED **(9)** lights up when the on/off switch **(11)** 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 **(11)**.

#### Adjusting the Speed

You can adjust the speed of the power tool when it is on by pressing in the on/off switch **(11)** to varying extents.

A light pressure on the on/off switch (11) results in a low rotational speed. Increased pressure on the switch causes an increase in speed.

#### Preselecting torque (applies to screwdriving mode)

The torque presetting ring (3) can be used to pre-select the required torque in 20 stages. Once the set torque has been reached, the application tool will be stopped.

#### Mechanical gear selection

- ▶ **Only operate the gear selector (5) when the power tool is not in use.**

##### First gear:

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

##### Second gear:

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

- ▶ **Always push the gear selector switch as far as it will go.** Otherwise, the power tool may become damaged.

#### Temperature-dependent overload protection

When used as intended, the power tool cannot be overloaded. In the event of overloading or the temperature rising/falling outside the permitted operating temperature range, the speed will be reduced. The power tool will not run at full speed again until the permitted operating temperature has been reached.

#### Fully automatic spindle lock (Auto-Lock)

The drill spindle, and therefore the tool holder, are locked when the on/off switch (11) is not pressed.

This allows screws to be driven in even when the battery is discharged and enables the power tool to be used as a screwdriver.

#### Practical advice

- ▶ **Only apply the power tool to the screw when the tool is switched off.** Rotating application tools can slip off.

Before screwing larger, longer screws into hard materials, it is advisable to pre-drill a pilot hole with the core diameter of the thread to approx. 2/3 of the screw length.

An auxiliary tool can be used to remove the screwdriver bit or universal bit holder.

## Maintenance and Service

### Maintenance and Cleaning

- ▶ **Remove the battery from the power tool before carrying out work on the power tool (e.g. maintenance, changing tool, etc.). The battery should also be removed for transport and storage.** 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

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. You can find explosion drawings and information on spare parts at: [www.bosch-pt.com](http://www.bosch-pt.com)

The Bosch product use advice team will be happy to help you with any questions about our products and their accessories.

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

#### Great Britain

Robert Bosch Ltd. (B.S.C.)  
P.O. Box 98  
Broadwater Park  
North Orbital Road  
Denham Uxbridge  
UB 9 5HJ

At [www.bosch-pt.co.uk](http://www.bosch-pt.co.uk) you can order spare parts or arrange the collection of a product in need of servicing or repair.

Tel. Service: (0344) 7360109

E-Mail: [boschservicecentre@bosch.com](mailto:boschservicecentre@bosch.com)

#### Ireland

Origo Ltd.  
Unit 23 Magna Drive  
Magna Business Park  
City West  
Dublin 24  
Tel. Service: (01) 4666700  
Fax: (01) 4666888

#### Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd.

Power Tools  
Locked Bag 66  
Clayton South VIC 3169  
Customer Contact Center  
Inside Australia:  
Phone: (01300) 307044  
Fax: (01300) 307045

Inside New Zealand:  
Phone: (0800) 543353  
Fax: (0800) 428570

Outside AU and NZ:  
Phone: +61 3 95415555  
[www.bosch-pt.com.au](http://www.bosch-pt.com.au)  
[www.bosch-pt.co.nz](http://www.bosch-pt.co.nz)

#### Republic of South Africa Customer service

Hotline: (011) 6519600

#### Gauteng – BSC Service Centre

35 Roper Street, New Centre  
Johannesburg  
Tel.: (011) 4939375  
Fax: (011) 4930126  
E-Mail: [bsctools@icon.co.za](mailto:bsctools@icon.co.za)

**KZN – BSC Service Centre**

Unit E, Almar Centre  
143 Crompton Street  
Pinetown  
Tel.: (031) 7012120  
Fax: (031) 7012446

E-Mail: bsc.dur@za.bosch.com

**Western Cape – BSC Service Centre**

Democracy Way, Prosperity Park  
Milnerton  
Tel.: (021) 5512577  
Fax: (021) 5513223  
E-Mail: bsc@zsd.co.za

**Bosch Headquarters**

Midrand, Gauteng  
Tel.: (011) 6519600  
Fax: (011) 6519880  
E-Mail: rbsa-hq.pts@za.bosch.com

**Transport**

The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements. The batteries are suitable for road-transport by the user without further restrictions.

When shipping by third parties (e.g.: by air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.

Dispatch battery packs only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Please also observe the possibility of more detailed national regulations.

**Disposal**

The machine, 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!

**Battery packs/batteries:****Li-ion:**

Please observe the notes in the section on transport (see "Transport", page 12).

**Français****Consignes de sécurité****Avertissements de sécurité généraux pour l'outil électrique****AVERTISSEMENT**

**Lire tous les avertissements de sécurité, les instructions, les illustrations et les spécifications fournis**

**avec cet outil électrique.** Ne pas suivre les instructions énumérées ci-dessous peut provoquer un choc électrique, un incendie et/ou une blessure sérieuse.

**Conservé tous les avertissements et toutes les instructions pour pouvoir s'y reporter ultérieurement.**

Le terme "outil électrique" dans les avertissements fait référence à votre outil électrique alimenté par le secteur (avec cordon d'alimentation) ou votre outil électrique fonctionnant sur batterie (sans cordon d'alimentation).

**Sécurité de la zone de travail**▶ **Conservé la zone de travail propre et bien éclairée.**

Les zones en désordre ou sombres sont propices aux accidents.

▶ **Ne pas faire fonctionner les outils électriques en atmosphère explosive, par exemple en présence de liquides inflammables, de gaz ou de poussières.** Les outils électriques produisent des étincelles qui peuvent enflammer les poussières ou les fumées.▶ **Maintenir les enfants et les personnes présentes à l'écart pendant l'utilisation de l'outil électrique.** Les distractions peuvent vous faire perdre le contrôle de l'outil.**Sécurité électrique**▶ **Il faut que les fiches de l'outil électrique soient adaptées au socle. Ne jamais modifier la fiche de quelque façon que ce soit. Ne pas utiliser d'adaptateurs avec des outils électriques à branchement de terre.** Des fiches non modifiées et des socles adaptés réduisent le risque de choc électrique.▶ **Éviter tout contact du corps avec des surfaces reliées à la terre telles que les tuyaux, les radiateurs, les cuisinières et les réfrigérateurs.** Il existe un risque accru de choc électrique si votre corps est relié à la terre.▶ **Ne pas exposer les outils électriques à la pluie ou à des conditions humides.** La pénétration d'eau à l'intérieur d'un outil électrique augmente le risque de choc électrique.▶ **Ne pas maltraiter le cordon. Ne jamais utiliser le cordon pour porter, tirer ou débrancher l'outil électrique. Maintenir le cordon à l'écart de la chaleur, du lubrifiant, des arêtes vives ou des parties en mouvement.** Des cordons endommagés ou emmêlés augmentent le risque de choc électrique.▶ **Lorsqu'on utilise un outil électrique à l'extérieur, utiliser un prolongateur adapté à l'utilisation extérieure.**

**Robert Bosch Power Tools GmbH**  
70538 Stuttgart  
GERMANY

[www.bosch-pt.com](http://www.bosch-pt.com)

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