BOSCH

Professional HEAVY DUTY

GSR 10.8V-32 FC



Robert Bosch Power Tools GmbH
70538 Stuttgart
GERMANY

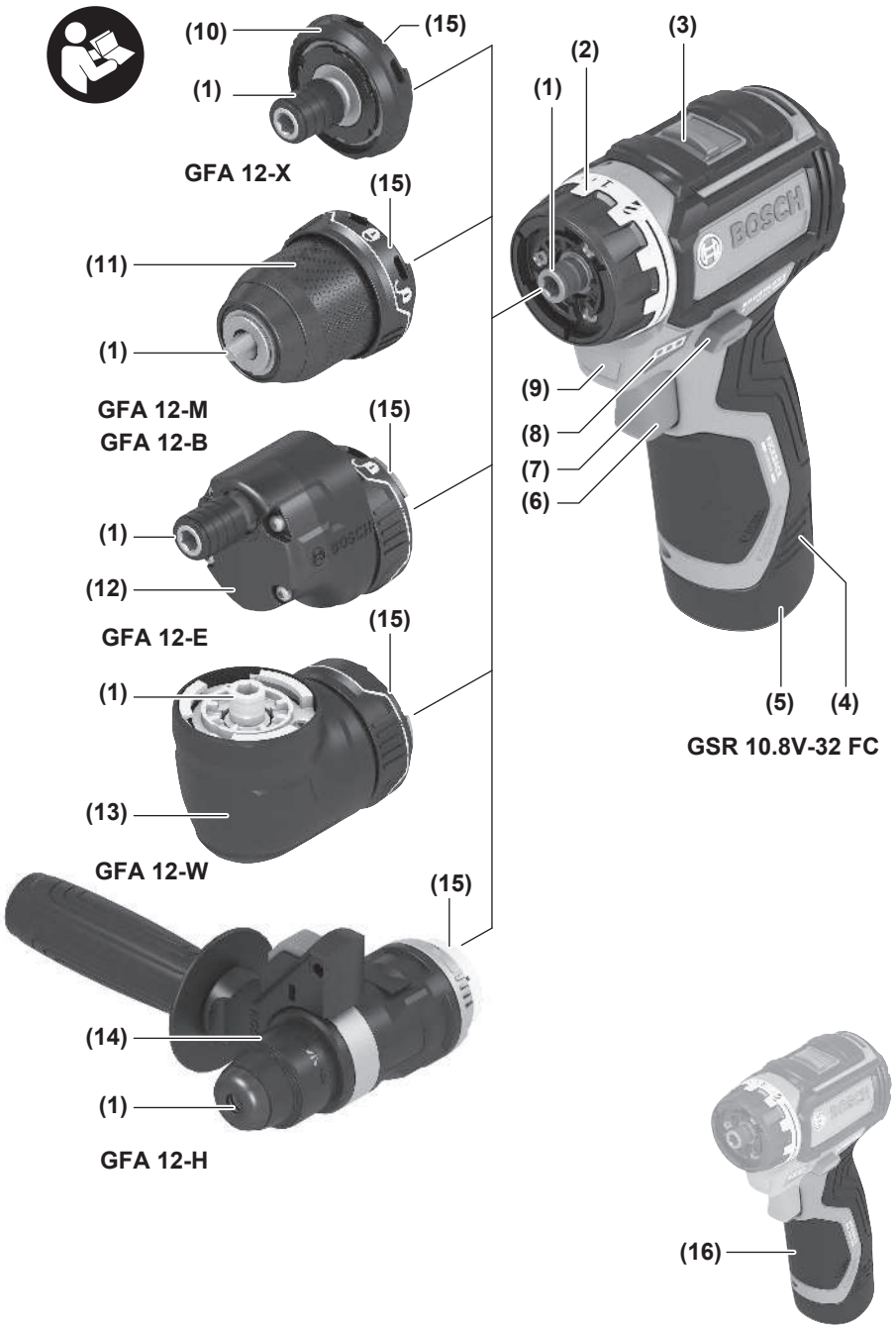
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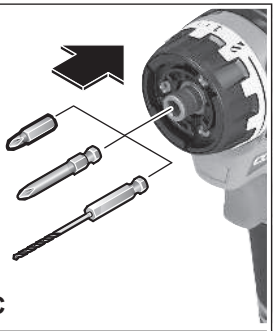
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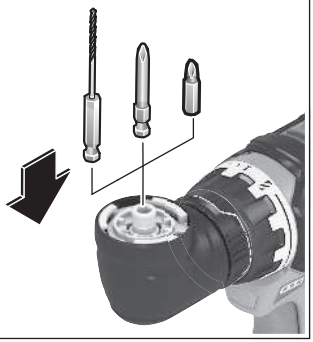
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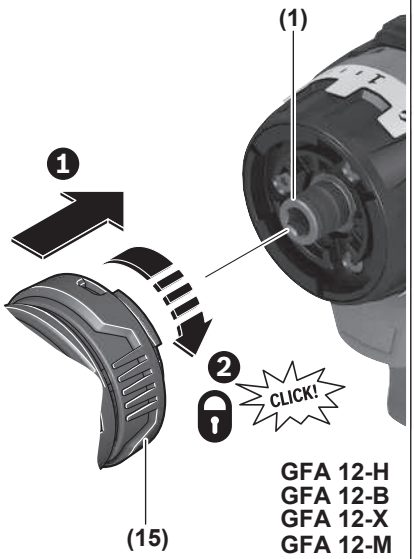


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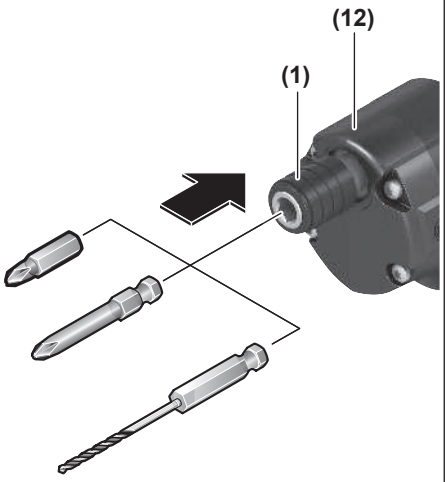
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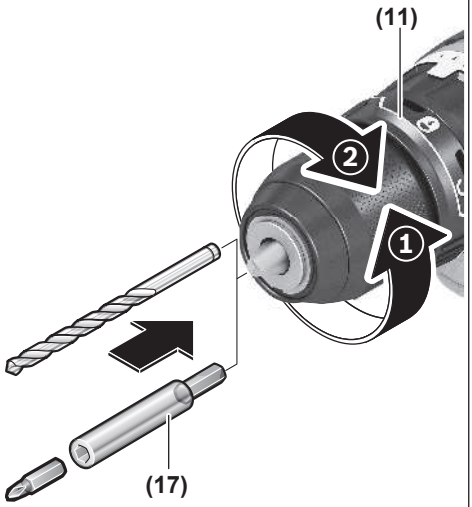
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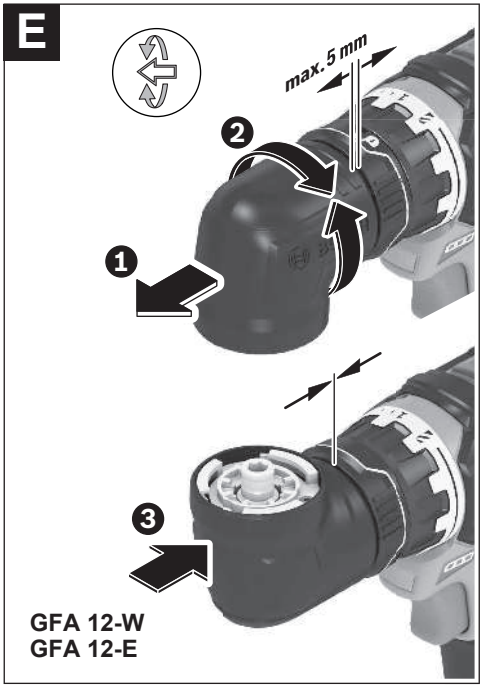
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GFA 12-X

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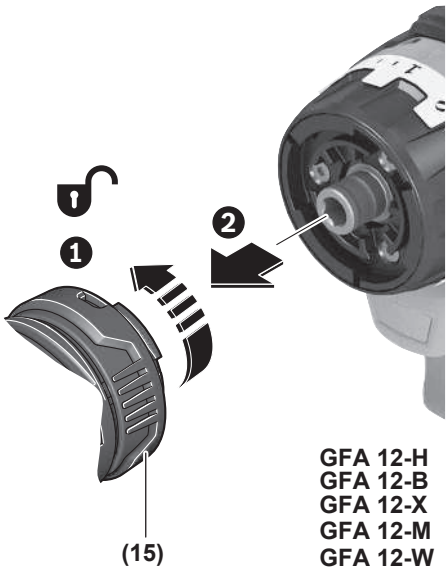
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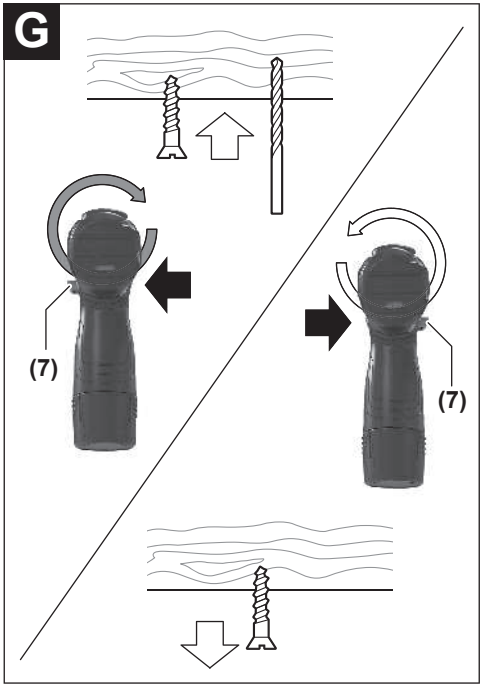
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GFA 12-H
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G



H



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 information for screwdrivers

Safety instructions for all operations

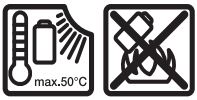
- ▶ **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring.** Cutting accessory or fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric 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 information

- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **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.
- ▶ **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.
- ▶ **Hold the power tool securely.** When tightening and loosening screws be prepared for temporarily high torque reactions.
- ▶ **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 intended for driving and loosening screws and for drilling in wood, metal, ceramic and plastic.

The power tool can be used with a right angle attachment (GFA 12-W), an excenter attachment (GFA 12-E), a bit

holder attachment (GFA 12-X), a (metal) drill chuck attachment (GFA 12-M/GFA 12-B) or a rotary hammer attachment (GFA 12-H).

Product Features

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

- **(1)** Tool holder
- **(2)** Torque presetting ring
- **(3)** Gear selector switch
- **(4)** Battery release button (2 x)[a)]
- **(5)** Rechargeable battery[a)]
- **(6)** On/off switch
- **(7)** Rotational direction switch
- **(8)** Battery charge indicator
- **(9)** Worklight
- **(10)** Bit holder attachment GFA 12-X[a)]
- **(11)** (Metal) drill chuck attachment (GFA 12-M/GFA 12-B)[a)]
- **(12)** Excenter attachment GFA 12-E[a)]
- **(13)** Right angle attachment GFA 12-W[a)]
- **(14)** Rotary hammer attachment GFA 12-H[a)]
- **(15)** Locking ring
- **(16)** Handle (insulated gripping surface)
- **(17)** Universal bit holder[a)]
- **(18)** Belt clip[a)]

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

Technical Data

Cordless Drill/Driver		GSR 10.8V-32 FC	GFA 12-X	GFA 12-M	GFA 12-E	GFA 12-W	GFA 12-B
Article number		**1 601 JN7 1..**	–	–	–	–	–
Rated voltage	V=	10.8	–	–	–	–	–
No-load speed[A)]							
– First gear	min^{-1}	0–475	–	–	–	–	–
– Second gear	min^{-1}	0–1800	–	–	–	–	–
Max. torque, hard/soft screw-driving application according to ISO 5393[A)]	Nm	32/21	–	–	–	–	–
Max. drilling diameter (1st/2nd gear)							
– Steel	mm	10	–	–	–	–	–
– Wood	mm	35	–	–	–	–	–
Max. screw diameter	mm	8	–	–	–	–	–
Tool holder	mm	6.35 (¼")	6.35 (¼")	0.8–10	6.35 (¼")	6.35 (¼")	0.8–10
Weight	kg	0.6[B)]	0.10	0.20	0.30	0.30	0.20
Recommended ambient temperature during charging	°C	0 to +35	–	–	–	–	–
Permitted ambient temperature during operation and during storage	°C	–20 to +50	–	–	–	–	–
Recommended rechargeable batteries		GBA 10.8V...	–	–	–	–	–
Recommended battery chargers		GAL 12... GAX 18...	–	–	–	–	–

A) Measured at 20–25 °C with battery **GBA 10.8V 6.0Ah** and attachment **GFA 12-M**

B) Without rechargeable battery (you can find the battery weight at 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.

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 buttons and pull the battery out. **Do not use force to do this.**

Battery charge indicator

The three green LEDs on the battery charge indicator indicate the state of charge of the rechargeable battery.

LED	Capacity
3 × continuous green light	68–100 %
2 × continuous green light	22–68 %
1 × continuous green light	2–22 %
1 × flashing green light	0–2 %

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.

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.

Changing the tool

Inserting the application tool (see figure A)

Insert the application tool all the way into the tool holder **(1)**.

Fitting the attachment (see figure B)

Remove the application tool.

Insert the attachment into the tool holder **(1)**. Turn the locking ring **(15)** until it audibly clicks into place.

Inserting the application tool into the attachment

GFA 12-W (see figure A)

Insert the application tool all the way into the tool holder **(1)**.

GFA 12-E, GFA 12-X (see figure C)

Push back the locking sleeve , guide the application tool into the tool holder **(1)** as far as it will go and release the locking sleeve to lock the application tool.

GFA 12-M/GFA 12-B (see figure D)

Open the (metal) drill chuck attachment **(11)** by turning it in the direction of rotation ❶ until the application tool can be inserted. Insert the application tool.

Firmly tighten the sleeve of the (metal) drill chuck attachment **(11)** by turning it by hand in the direction of rotation ❷. This will automatically lock the (metal) drill chuck.

To release the locking mechanism and remove the tool, turn the sleeve of the (metal) drill chuck attachment **(11)** in the direction of rotation ❶.

Turning the attachment GFA 12-E, GFA 12-W (see figure E)

Pull the attachment forwards. Turn the attachment. The attachment clicks into place in 16 positions around a 360° axis. Choose a position that is suitable for the work being carried out.

Let go of the attachment again to lock it.

Removing the attachment (see figure F)

Remove the application tool.

Unlock the attachment in direction  and pull it off the tool holder **(1)**.

Combining attachments

The right angle attachment **(13)** can be combined with any of the other attachments.

To do this, insert the right angle attachment **(13)** into the tool holder **(1)**. Turn the locking ring **(15)** until it audibly clicks into place. Then attach one of the other attachments to the right angle attachment **(13)**.

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

Setting the rotational direction (see figure G)

- ▶ **Only operate the rotational direction switch (7) when the power tool is not in use.**

The rotational direction switch **(7)** 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.

Right rotation: To drill and to drive in screws, press the rotational direction switch **(7)** through to the left stop.

Left Rotation: To loosen and unscrew screws and nuts, press the rotational direction switch **(7)** through to the right stop.

Preselecting the Torque

The torque presetting ring **(2)** can be used to pre-select the required torque in 20 stages. When the correct setting is used, the application tool will be stopped when the screw is driven flush into the material or once the set torque has been reached. In position ◥◤ the overload clutch is deactivated, e.g. for drilling.

When unscrewing screws, it may be advisable to select a higher setting or the ◥◤ symbol.

In position ◥◤, the maximum torque for drilling and screwdriving is achieved.

Mechanical gear selection

- ▶ **Only operate the gear selector (3) when the power tool is not in use.**
- ▶ **Always push the gear selector switch as far as it will go.** Otherwise, the power tool may become damaged.

You can preselect two speed ranges with the gear selector **(3)**.

Gear selector switch (3) position	Speed	Torque	Application range
1	Low	High	For heavy-duty applications: e.g. drilling and screwdriving with large diameters
2	High	Low	For light-duty applications: e.g. drilling and screwdriving with small diameters

Setting the Operating Mode



Drilling
Set the torque presetting ring **(2)** to the "drilling" symbol to achieve the maximum torque for drilling and screwdriving.



Screwdriving
Set the torque presetting ring **(2)** to the required torque setting.

Switching on/off

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

The worklight **(9)** lights up when the on/off switch **(6)** is lightly or fully pressed, allowing the work area to be 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.

Emergency switch-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.

Rapid shut-off is indicated by flashing of the worklight on the power tool.

To **switch the 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.**

Temperature-dependent overload protection

In normal conditions of use, the power tool cannot be overloaded. If there is an extreme overload, the power tool switches off until the optimal operating temperature range is reached again.

This status is indicated by the three battery charge indicator LEDs flashing in a chase sequence. The LEDs turn off if the power tool has reached the optimum operating temperature again.

Practical advice

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

After working at a low speed for an extended period, you should operate the power tool at the maximum speed for approximately three minutes without load to cool it down.

When drilling into metal, only use sharpened HSS drills (HSS = high-speed steel) which are in perfect condition. The **Bosch** accessory range guarantees appropriate quality.

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.

Belt clip (see figure H)

You can use the belt clip **(18)** to hang the power tool on a belt, for example. You then have both hands free and the power tool is always within easy reach.

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

Malaysia
Tel.: (03) 79663194

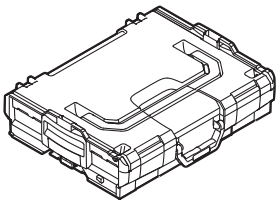
In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

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!



L-BOXX 102
2 608 438 691



1 600 A00 F5J (GFA 12-X)



1 600 A03 7MD (GFA 12-M)
1 600 A00 F5H (GFA 12-B)



1 600 A00 F5L (GFA 12-E)



1 600 A00 F5K (GFA 12-W)



1 600 A02 4LN (GFA 12-H)

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Apache-2.0

CMSIS_5, v5.7.0

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Zlib

NanoPb, v0.3.9.9

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