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GFA 12-H

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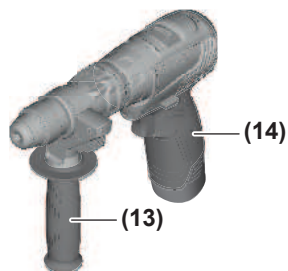
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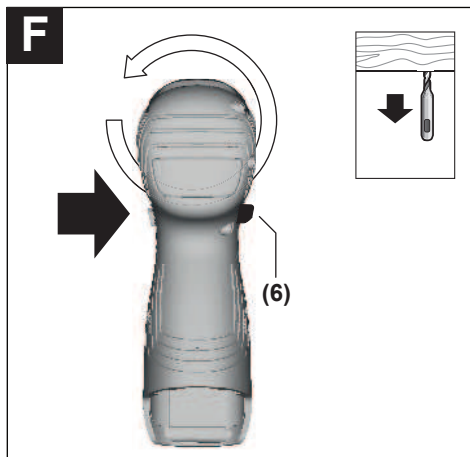
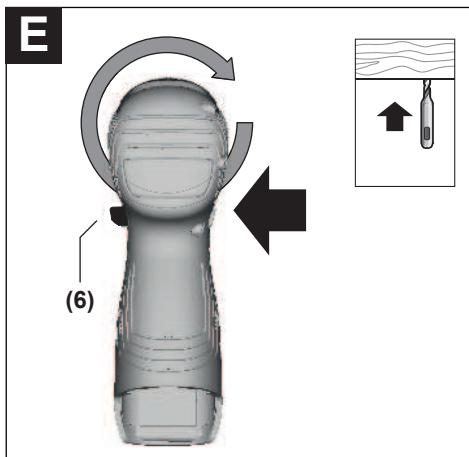
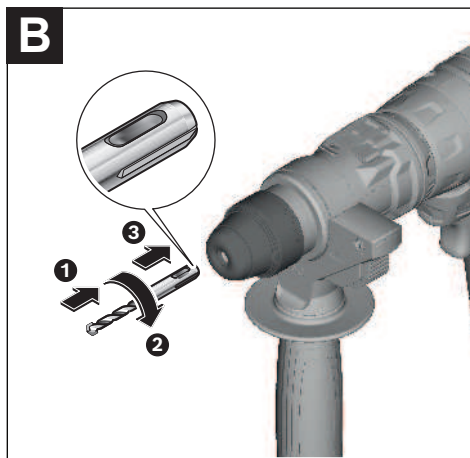
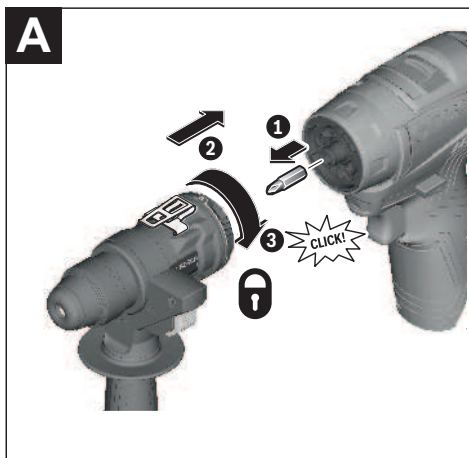




GFA 12-H



**GSR 12V-15 FC
GSR 12V-32 FC
GSR 12V-35 FC**





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.

Hammer Safety Warnings

Safety instructions for all operations

- ▶ **Wear ear protectors.** Exposure to noise can cause hearing loss.
- ▶ **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- ▶ **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 with rotary hammers

- ▶ **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

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



- ▶ **Do not touch any application tools or adjacent housing components shortly after operation.** These can become very hot during operation and cause burns.
- ▶ **The application tool may jam during drilling. Make sure you have a stable footing and hold the power tool firmly with both hands.** Otherwise you could lose control of the power tool.
- ▶ **Take care when carrying out demolition work using the chisel.** Falling fragments of the demolition material could injure you or any bystanders.

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 (**GSR 12V-15 FC/GSR 12V-32 FC/GSR 12V-35 FC** with rotary hammer adapter **GFA 12-H**) is intended for hammer drilling in concrete, brick and stone. The rotary hammer adapter **GFA 12-H** must only be used with cordless drill/drivers **GSR 12V-15 FC, GSR 12V-32 FC** and **GSR 12V-35 FC**.

Product Features

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

- (1) Holder^{a)}
- (2) Torque presetting ring^{a)}
- (3) Gear selector switch^{a)}
- (4) Battery release button^{a)}
- (5) Rechargeable battery^{a)}
- (6) Rotational direction switch^{a)}

- (7) On/off switch^{a)}
- (8) Battery charge indicator^{a)}
- (9) Worklight^{a)}
- (10) Locking ring
- (11) Belt clip
- (12) Rotary hammer attachment **GFA 12-H**
- (13) Auxiliary handle with depth stop
- (14) Handle (insulated gripping surface)^{a)}
- (15) Snap-in pin

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

Items included

Hammer adapter **(12)**, auxiliary handle with depth stop **(13)** and belt clip **(11)**. Application tools and other accessories shown or described are not part of the standard delivery scope. You can find the complete selection of accessories in our accessories range.

Technical Data

Hammer adapter with auxiliary handle		GFA 12-H	GFA 12-H	GFA 12-H
Article number		1 600 A01 L1N	1 600 A01 L1N	1 600 A01 L1N
Cordless screwdriver		GSR 12V-15 FC	GSR 12V-32 FC	GSR 12V-35 FC
Article number		3 601 JF6 0..	3 601 JN7 1..	3 601 JH3 0..
Rated speed ^{A)}	min ⁻¹	0–1300	0–1800	0–1750
Impact rate ^{A)}	min ⁻¹	0–2600	0–3500	0–3700
Rated voltage	V=	12	12	12
Tool holder		SDS plus	SDS plus	SDS plus
Max. drilling diameter				
– Concrete	mm	10	10	10
– Masonry	mm	16	16	16
Weight ^{B)}	kg	1.4	1.3	1.4
Recommended ambient temperature during charging	°C	0 to +35	0 to +35	0 to +35
Permitted ambient temperature during operation ^{C)} and during storage	°C	–20 to +50	–20 to +50	–20 to +50

A) Measured at 20–25 °C with rechargeable battery **GBA 12V 6.0Ah**
B) With auxiliary handle, without rechargeable battery (you can find the battery weight at 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 62841-2-6**.
GSR 12V-15 FC:

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 = **3 dB**.

Wear hearing protection!

GSR 12V-32 FC | GSR 12V-35 FC:

Typically, the A-weighted noise level of the power tool is: Sound pressure level **90 dB(A)**; sound power level **98 dB(A)**. Uncertainty K = **3 dB**.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_r (repeated shock vibrations) and uncertainty K determined according to **EN IEC 62841-2-6**:

GSR 12V-15 FC:

Hammer drilling in concrete: $a_{h,HD} = 13.9 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_{F,HD} = 877 \text{ m/s}^2$ ($K = 222 \text{ m/s}^2$)

GSR 12V-32 FC:

Hammer drilling in concrete: $a_{h,HD} = 16.5 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_{F,HD} = 1067 \text{ m/s}^2$ ($K = 7 \text{ m/s}^2$)

GSR 12V-35 FC:

Hammer drilling in concrete: $a_{h,HD} = 15.4 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_{F,HD} = 935 \text{ m/s}^2$ ($K = 113 \text{ m/s}^2$)

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.

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

The dust protection cap largely prevents the penetration of drilling dust into the tool holder during operation. When inserting the tool, make sure that the dust protection cap does not become damaged.

- **Replace a damaged dust protection cap immediately. It is recommended that you have use an after-sales service for this.**

Fitting the attachment (see figure A)

Remove the application tool.

Insert the attachment into the holder (1). Turn the locking ring (10) until it audibly engages.

Inserting the SDS plus Application Tool into the Adapter (see figure B)

The SDS plus drill chuck enables you to change the application tool easily and conveniently without needing to use additional tools.

- Insert the application tool all the way into the holder of the locking sleeve.

- Check that it is locked by pulling on the tool.

Removing the Application Tool (see figure C)

Pull back the locking sleeve and remove the application tool.

Swivelling the Auxiliary Handle (see figure H)

You can swivel the auxiliary handle (13) to any angle for a safe work posture that minimises fatigue.

- Turn the lower gripping end of the auxiliary handle (13) anticlockwise and swivel the auxiliary handle (13) into the required position. Then, turn the lower gripping end of the auxiliary handle (13) clockwise to retighten.

Make sure that the retaining strap of the auxiliary handle slots into the corresponding groove of the housing.

Setting the Drilling Depth (see figure I)

You can use the depth stop to set the required drilling depth X.

Press the button for depth stop adjustment and insert the depth stop into the auxiliary handle (13).

The fluting on the depth stop must face upwards or downwards.

- Push the SDS plus application tool into the SDS plus tool holder as far as it will go. Otherwise, the movability of the SDS plus drilling tool can lead to incorrect adjustment of the drilling depth.
- Pull out the depth stop until the distance between the tip of the drill bit and the tip of the depth stop corresponds with the desired drilling depth X.

Removing the attachment (see figure J)

Remove the application tool.

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

Dust Reduction

Do not carry out drilling without taking dust-reducing measures. Depending on the intended application, the power tool can be combined with a dust-reducing accessory together with a dust extractor.

Always use suitable breathing protection. 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	35
Required vacuum pressure ^{A)}	mbar	≥ 230
	hPa	≥ 230
Required flow rate ^{A)}	l/s	≥ 36
	m³/h	≥ 129.6
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.

Operation

Starting Operation

Selecting the Drilling or Hammer Drilling Operating Mode (see figure D)

Set the torque presetting ring (2) to the "drilling" symbol.

Adjusting the rotational direction (see figures E–F)

- ▶ **Only operate the rotational direction switch (6) when the power tool is not in use.**

The rotational direction switch (6) is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch (7) is being pressed.

Right rotation: To drill and to drive in screws, press the rotational direction switch (6) through to the left stop.

Left Rotation: To loosen and unscrew screws and nuts, press the rotational direction switch (6) through to the right stop.

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. hammer drilling with large diameters
2	High	Low	For light-duty applications: e.g. hammer drilling with small diameters

Switching on/off

To **start** the power tool, press and hold the on/off switch (7).

The worklight (9) lights up when the on/off switch (7) is lightly or fully pressed, allowing the work area to be illuminated in poor lighting conditions.

The worklight (9) will remain lit for approximately ten seconds after the on/off switch (7) has been released.

Adjusting the speed

You can adjust the speed of the power tool when it is on by pressing in the on/off switch (7) to varying extents.

A light pressure on the on/off switch (7) results in a low rotational speed. Increased pressure on the switch causes an increase in speed.

Practical advice

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.

Belt clip (see figures K–L)

You can use the belt clip (11) to hang the adapter on a belt, for example. You then have both hands free and the adapter is always at hand.

- When fitting it, ensure that the snap-in pin (15) on the belt clip engages in the recess of the adapter housing.
- To remove the belt clip, lift the snap-in pin (15) using a sharp object and pull off the belt clip.

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 each use, clean the application tool, the rotary hammer adapter **GFA 12-H** with tool holder, and the ventilation slots of the power tool.

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

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

Disposal

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



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

Only for EU countries and United Kingdom:

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

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