



Professional HEAVY DUTY

GFF 18V-22

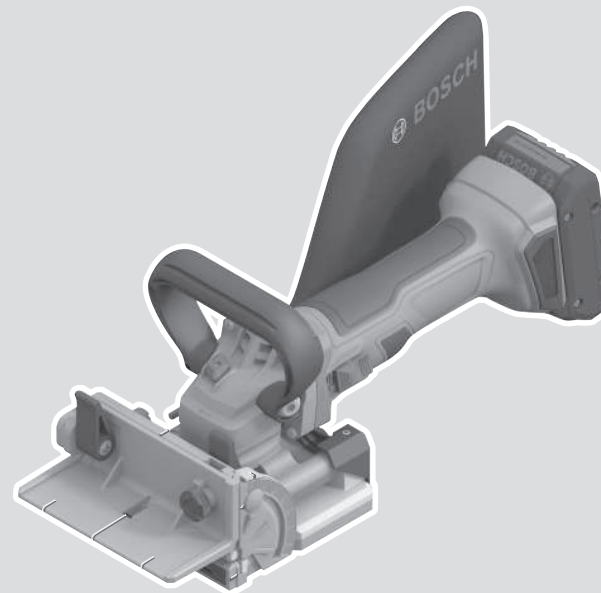
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en Original instructions



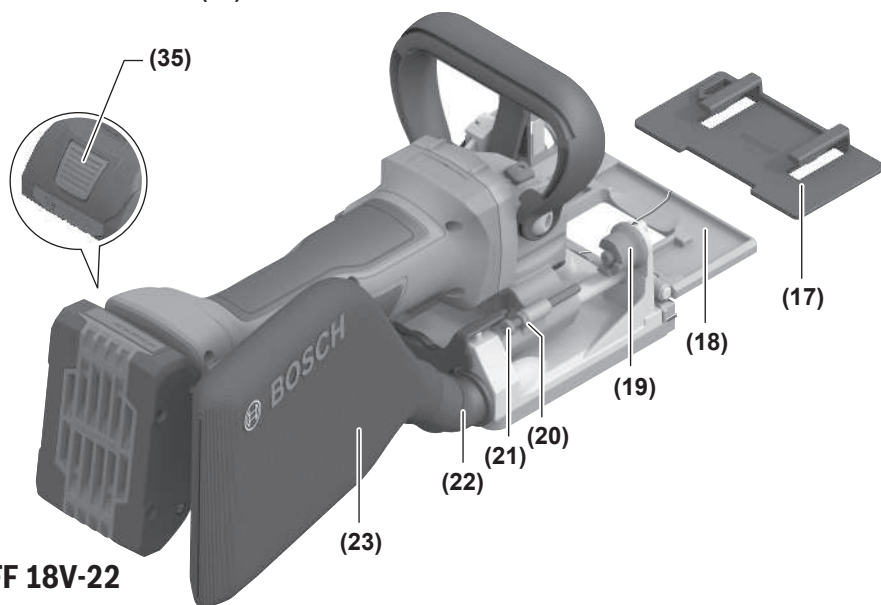
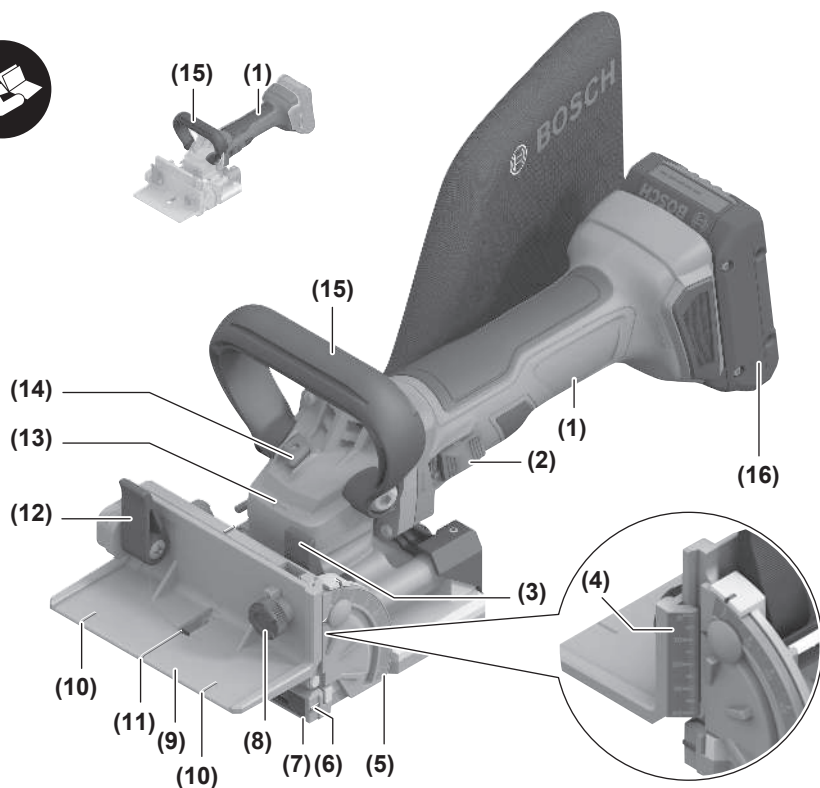
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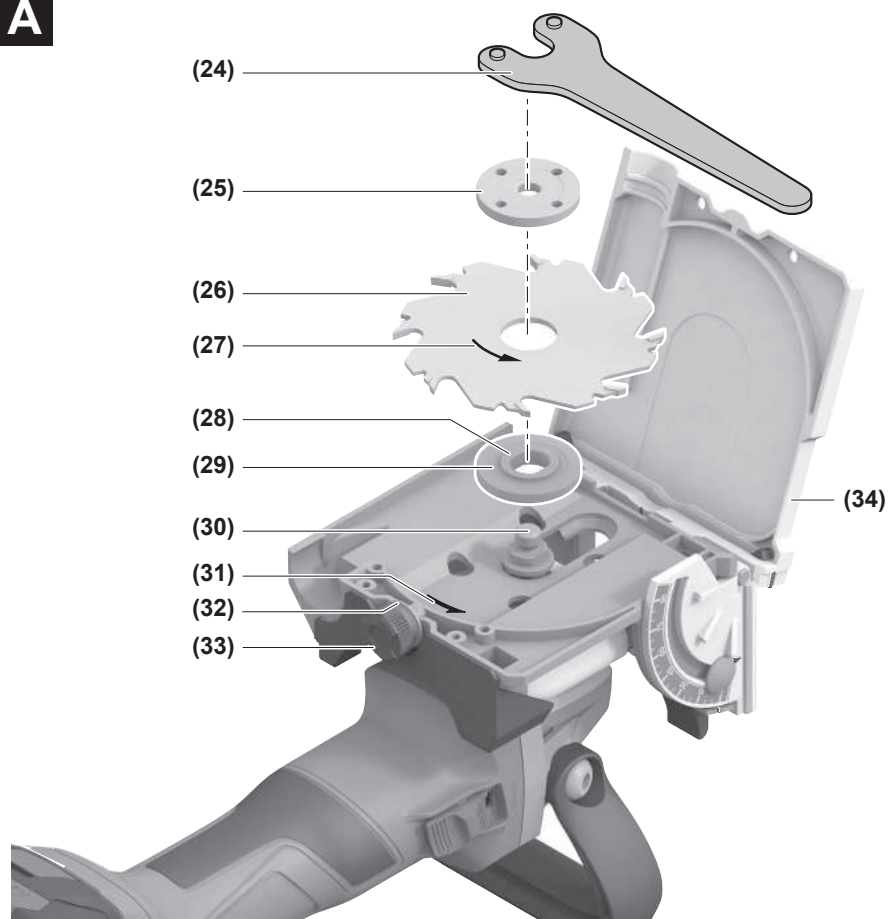
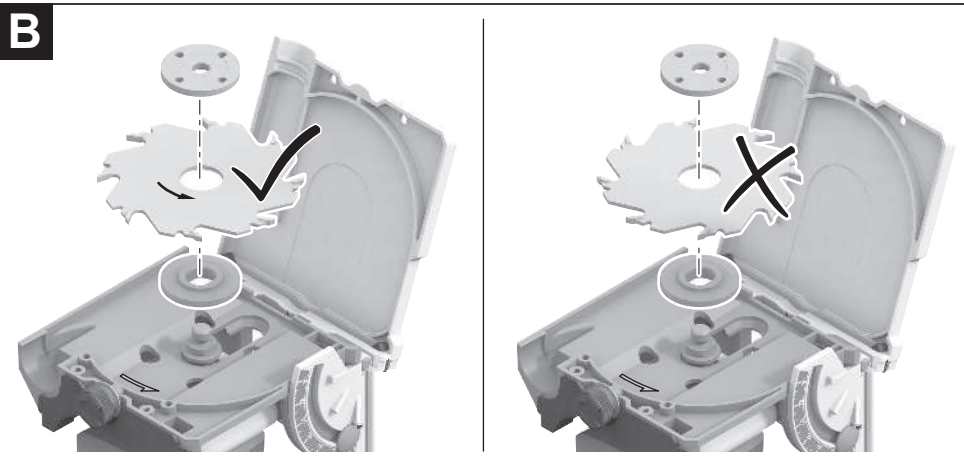
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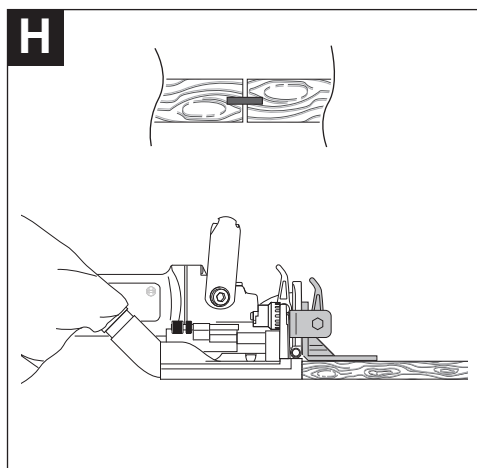
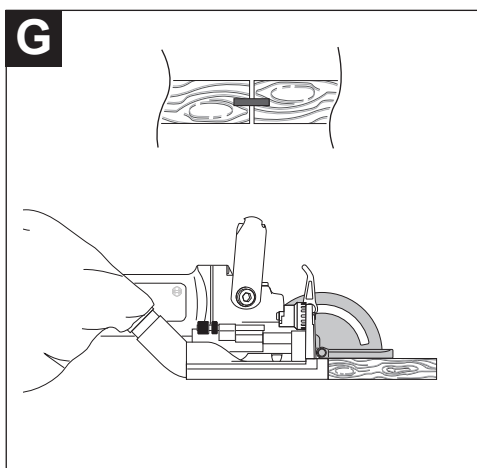
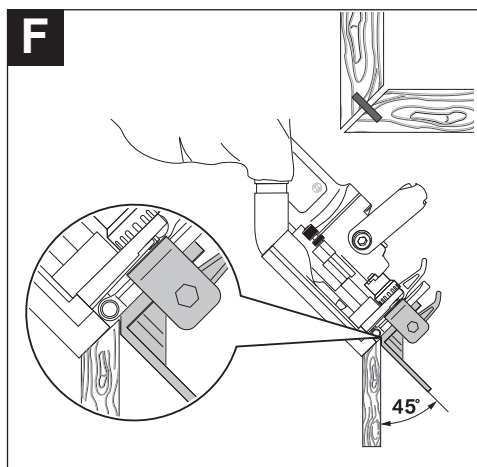
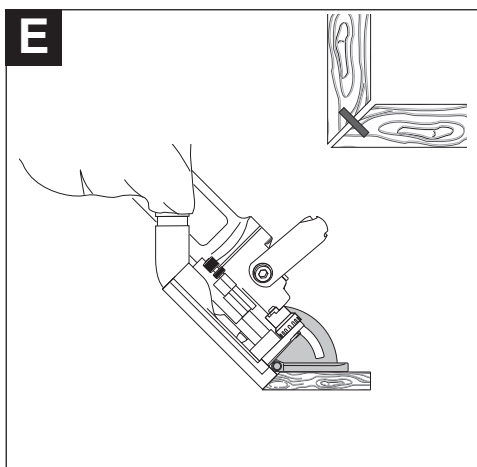
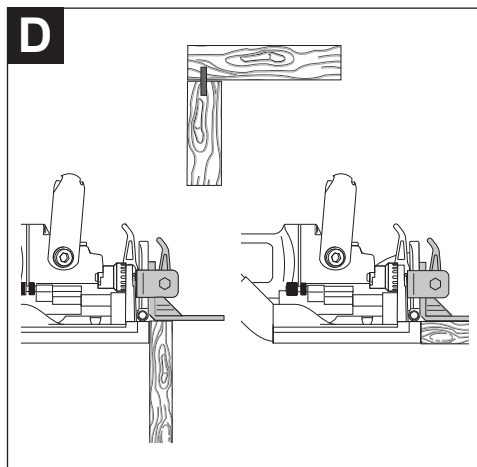
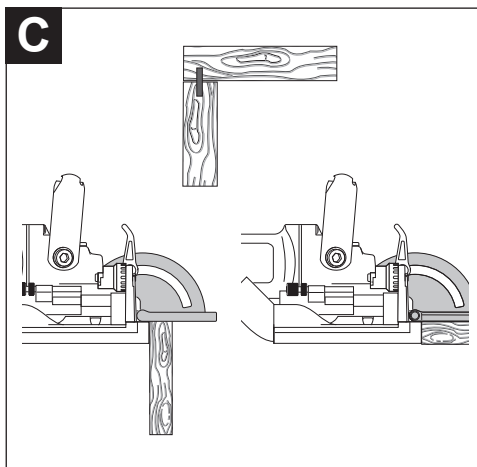


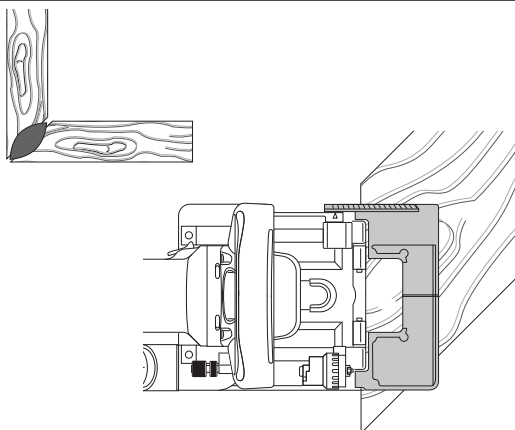
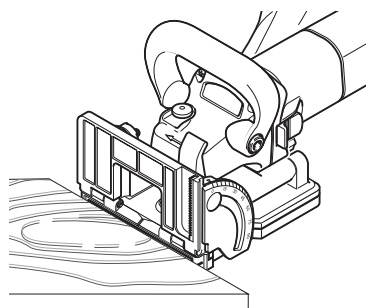
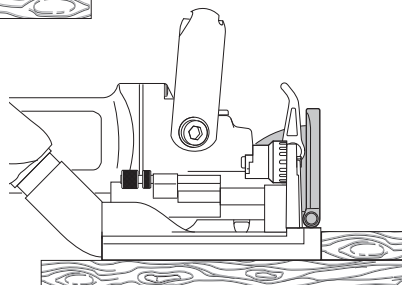
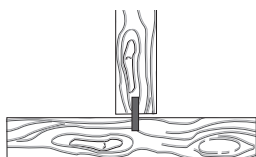
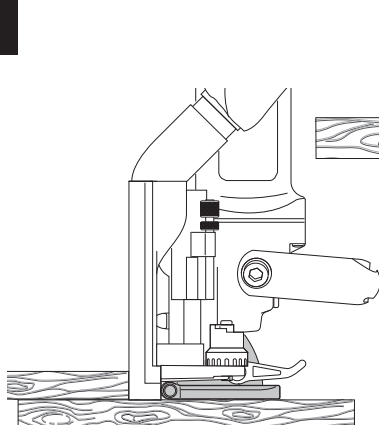
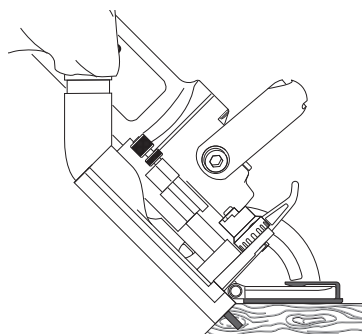
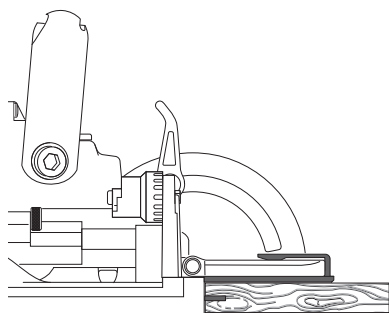
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GFF 18V-22

A**B**



I**J****K**

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.

Jointer safety warnings

- ▶ **Disc cutters must be rated for at least the speed marked on the tool.** Disc cutters running over rated speed can fly apart and cause injury.
- ▶ **Always use the guard.** The guard protects the operator from broken disc cutter fragments and unintentional contact with the disc cutter.
- ▶ **Always use side milling cutters of the correct size and shape and with the correct locating bore.** Side milling cutters that do not match the mounting hardware of the router will run eccentrically, causing loss of control.
- ▶ **Only bring the power tool into contact with the workpiece when switched on.** Otherwise there is danger of kickback if the cutting tool jams in the workpiece.
- ▶ **Do not put your hands in the routing area or close to the router. Grip the auxiliary handle with your other hand.** Holding the router with both hands avoids injury.
- ▶ **Never rout over metal objects, nails or screws.** The router could become damaged and cause increased vibration.

- ▶ **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.
- ▶ **Do not use blunt or damaged routers.** Blunt or damaged routers cause increased friction, create imbalances and may become jammed.
- ▶ **When working with the tool, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **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.
- ▶ **Always use the auxiliary handle supplied with the power tool.** Loss of control can cause personal injury.
- ▶ **Only use the application tools listed in this operating manual. Do not use cutting discs or circular saw blades.**
- ▶ **Check that the side milling cutter is firmly secured before starting operation.**
- ▶ **Only press the spindle lock button when the power tool is at a standstill.** Otherwise, the power tool may become damaged.
- ▶ **Only use the power tool when the anti-slip protection is fitted.** This ensures that precise work can be carried out with 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 designed to create slots for biscuit joints in chipboard, hardwood, softwood, plywood and fibreboard.

Product Features

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

- (1) Handle (insulated gripping surface)
- (2) On/off switch
- (3) Angle guide clamping lever
- (4) Height scale
- (5) Angle scale
- (6) Horizontal centre mark
- (7) Anti-slip protection
- (8) Adjustment knob for the height-adjustable stop
- (9) Height-adjustable stop
- (10) Routing width mark
- (11) Vertical centre mark
- (12) Clamping lever for the height-adjustable stop
- (13) Direction of rotation arrow on housing
- (14) Spindle lock button
- (15) Auxiliary handle (insulated gripping surface)
- (16) Rechargeable battery^{a)}
- (17) Clip-on plate
- (18) Angle guide
- (19) Adjustment knob for routing depth
- (20) Locking nut for routing depth adjustment
- (21) Adjusting screw for routing depth adjustment
- (22) Extraction outlet
- (23) Dust bag
- (24) Two-hole spanner
- (25) Clamping nut
- (26) Side milling cutter
- (27) Direction of rotation arrow for side milling cutter
- (28) Centring collar on the mounting flange
- (29) Mounting flange
- (30) Routing spindle
- (31) Direction of rotation arrow for routing spindle
- (32) Lock washer for the base plate
- (33) Clamping screw for the base plate
- (34) Base plate
- (35) Rechargeable battery release button^{a)}

a) **This accessory described here is not included with the product as standard. The items included are indicated on the packaging.**

Technical Data

Biscuit Joiner		GFF 18V-22
Article number		3 601 F20 1..
Rated voltage	V=	18
Rated no-load speed ^{A)}	min ⁻¹	11000
Max. routing depth ^{B)}	mm	22
Spindle thread	mm	M10 x 1.25
Side milling cutter drilling diameter	mm	22
Max. diameter of side milling cutter	mm	105
Max. thickness of side milling cutter	mm	4
Weight ^{C)}	kg	2.6
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation ^{D)} and during storage	°C	-15 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended rechargeable batteries		ProCORE18V... ≥ 4.0 Ah EXPERT18V...
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) The actual no-load speed must not exceed the rated no-load speed and is therefore lower.

B) achieved with a side milling cutter with a 105 mm diameter

C) With mounting flange (29) and clamping nut (25), without rechargeable battery (you can find the battery weight at www.bosch-professional.com)

D) 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 62841-2-19**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **85** dB(A); sound power level **93** dB(A). Uncertainty K = **3** dB.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_F (repeated shock vibrations) and uncertainty K determined according to **EN IEC 62841-2-19**:

$a_h = 1.2 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_F = 61 \text{ m/s}^2$ ($K = 2.1 \text{ m/s}^2$)

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and can be used to compare power tools. They can 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 can differ. This can 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 can 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.

During the charging process, the handle of the power tool will become warm. This is normal.

If you are not planning to use the power tool again soon, disconnect the charger from the mains.

The power tool cannot be used during the charging process. It is not defective if it does not work during the charging process.

- **Protect the charger against moisture.**

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.

Fitting

Inserting/Replacing the Side Milling Cutter (see figures A-B)

- **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.
- **Wearing protective gloves is recommended for inserting and replacing side milling cutters.**
- **Protect the side milling cutter from shock and impact.**

The power tool can be operated with the **Bosch** side milling cutter **3 608 641 013** (105 mm diameter) or a commercially available side milling cutter with the same or a smaller diameter (< 105 mm).

- If necessary, set the angle guide **(18)** to 0° (see "Setting the Routing Angle", page 12) and set the height-adjustable stop **(9)** to the maximum height (see "Setting the Height-Adjustable Stop", page 12).

- Turn the power tool so that the base plate **(34)** faces upward.
- Loosen the clamping screw **(33)** by approx. three turns.
- Open up the base plate **(34)**. Hold the power tool in such a way that the base plate does not fold back down.
- Press and hold the spindle lock button **(14)**.
- Loosen the clamping nut **(25)** with the supplied two-pin spanner **(24)** and remove the nut.
- If necessary, remove the inserted side milling cutter **(26)** and clean it.
- If necessary, remove the inserted mounting flange **(29)** and clean it.
- Place the mounting flange **(29)** on the routing spindle **(30)** so that the centring collar **(28)** (diameter 22 mm) is on the top. The mounting flange must lock into the flats of the routing spindle (anti-twist protection).
- Place the clean side milling cutter **(26)** on the mounting flange **(29)** as shown in the figure, so that the direction of rotation arrow **(27)** is visible on the side milling cutter and matches the direction of rotation arrow on the routing spindle **(31)**. The locating bore of the side milling cutter must lock into the centring collar **(28)** of the mounting flange.
- Screw the clamping nut **(25)** onto the routing spindle **(30)**. Using the two-hole spanner **(24)**, firmly tighten the clamping nut while pressing the spindle lock button **(14)**.
- **Check that the side milling cutter is correctly attached and can turn freely.**
- Close the base plate **(34)**. Ensure that the lock washer **(32)** is positioned above the base plate.
- Tighten the clamping screw **(33)**.
- **Check that the base plate (34) is locked firmly in place.**

Dust/Chip Extraction

Do not perform work without taking dust-reducing measures.

Using a suitable dust extraction attachment or a dust box/ dust bag will reduce exposure to harmful dust. Provide good ventilation at the workplace. Always use suitable breathing protection. If you are using a dust box, empty it in good time and clean the filter element regularly to ensure optimal dust extraction.

If you are using a dust extractor, refer to the requirements listed below. The regulations on the material being machined that apply in the country of use must be observed.

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

Requirements for the Dust Extractor

Recommended hose nominal diameter	mm	28
Required vacuum pressure ^{A)}	mbar	≥ 140
	hPa	≥ 140

Requirements for the Dust Extractor

Required flow rate ^{A)}	l/s m ³ /h	≥ 23 ≥ 82.8
Recommended filter efficiency	Dust class M ^{B)}	

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

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

Clean the extraction outlet (22) if necessary. To do this, open the base plate (34) (see "Inserting/Replacing the Side Milling Cutter (see figures A-B)", page 11) and pull out the extraction outlet.

External Dust Extraction (see accessories page)

Insert the connector of an extraction hose (accessory) onto the extraction outlet (22), turning slightly. Connect the extraction hose to a vacuum cleaner.

The dust extractor must be suitable for the material being worked.

When extracting dry dust or dust that is especially detrimental to health or carcinogenic, use a special dust extractor.

Self-generated dust extraction with dust bag (see accessories page)

For smaller routing jobs, you can use the dust bag (23).

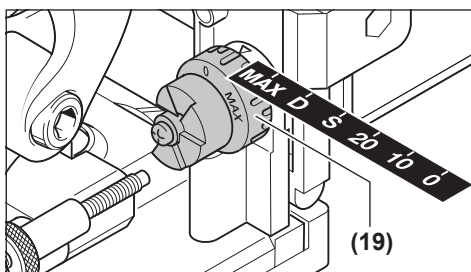
Insert the connector of the dust bag (23) onto the extraction outlet (22), turning slightly.

Empty the dust bag (23) at regular intervals to maintain optimum dust collection.

Do this by pulling off the dust bag (23), opening the zip and emptying the contents.

Operation

Setting the Routing Depth



Use the adjustment knob (19) to set the routing depth. The adjustment knob has lock-in heights for six sizes of jointing biscuit.

Assigning the lock-in heights to jointing biscuits and routing depths:

Lock-in height	Jointing biscuit	Routing depth in mm ^{A)}
0	No. 0	8
10	No. 10	10

Lock-in height	Jointing biscuit	Routing depth in mm ^{A)}
20	No. 20	12.3
S	Simplex	13
D	Duplex	14.7
MAX	–	22

A) achieved with a side milling cutter with a 105 mm diameter

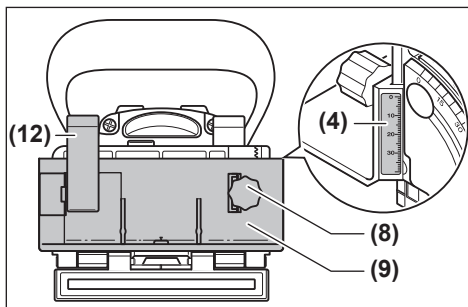
The limit stop for the routing depth is set to an average. According to tolerances, when using resharpened side milling cutters or side milling cutters with a smaller diameter (< 105 mm), it may be necessary to readjust the routing depth. Do this by loosening the locking nut (20). Turn the adjusting screw (21) clockwise to reduce the routing depth or anticlockwise to increase it. Perform a test run to check the routing depth adjustment. Then retighten the locking nut (20) firmly.

Setting the Height-Adjustable Stop

Using the height-adjustable stop (9), you can specify the distance between the top of the workpiece and the slot being routed.

To attach the height-adjustable stop (9), place it on the angle guide (18) and turn it into the guide groove of the angle guide using the adjustment knob (8).

Note: Do not apply force to attach it. If correctly positioned, the stop (9) runs smoothly.



Using the adjustment knob (8), set the required distance on the height scale (4). Then tighten the clamping lever (12).

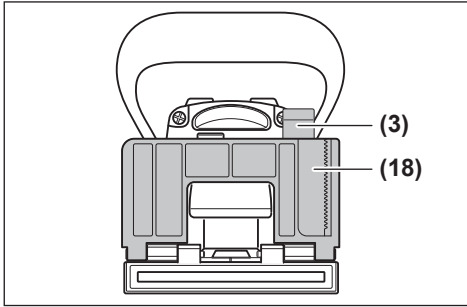
To ensure the slot is positioned in the centre of a workpiece, you must set the height-adjustable stop at half the workpiece thickness.

Example: For an 18 mm thick workpiece, set the height scale at 9 mm.

To remove the height-adjustable stop (9), loosen the clamping lever (12) and unscrew the stop, with the adjustment knob (8) facing upwards, all the way out of the angle guide (18).

Setting the Routing Angle

The angle guide (18) makes routing on mitres/bevels easier.



To adjust the angle guide (18), loosen the clamping lever (3). Tilt the angle guide until the required angle is set on the angle scale (5) (there are lock-in points at 0°, 30°, 45°, 60° and 90°). Then tighten the clamping lever (3).

- ▶ **Take care to ensure that neither the height-adjustable stop (9) nor the clip-on plate (17) are located in the exit area of the side milling cutter once the routing angle has been set.** To check, switch the power tool off and push the router exit against the edge of a table, for instance, until the side milling cutter is visible. The most extended side milling cutter must not make contact with the height-adjustable stop (9) or the clip-on plate (17).

Start-Up

- ▶ **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.
- ▶ **Before the power tool can be switched on, the base plate (34) must be locked firmly in place by the clamping screw (33) and the lock washer (32).**
- ▶ **Before switching on, check whether the automatic reset function on the motor unit is working correctly.** Push the router exit against the edge of a table, for instance, until the side milling cutter is visible. When the pressure is released, the side milling cutter must be fully withdrawn into the base plate.

Switching On and Off

To **switch on** the power tool, push the on/off switch (2) forward and push it forwards and down to **lock** it.

To **switch off** the power tool, push the on/off switch (2) backwards so that it jumps back into the off position.

Restart protection

The restart protection feature prevents the power tool from uncontrolled starting after the power supply to it has been interrupted.

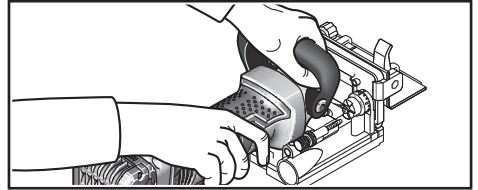
To restart the tool, set the on/off switch (2) to the off position and then switch the power tool on again.

Soft start

The electronic soft start limits the torque when the power tool is switched on and increases the service life of the motor.

Working Advice

- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **Do not put your hands in the routing area or close to the side milling cutter.**



When working, hold the handle (1) in one hand, and the auxiliary handle (15) in the other hand.

- ▶ **Only bring the power tool into contact with the workpiece when switched on.** Otherwise there is danger of kickback if the cutting tool jams in the workpiece.

Carry out the routing process with a uniform feed.

Establishing the Routing Position

The vertical centre mark (11) on the angle guide and height guide indicates the centre of the slot (perpendicular to the side milling cutter). The maximum width of the slot is indicated by both marks (10) on the height-adjustable stop (9).

When positioning the height, the horizontal centre mark (6) on the base plate is useful, because it indicates the horizontal centre of the side milling cutter.

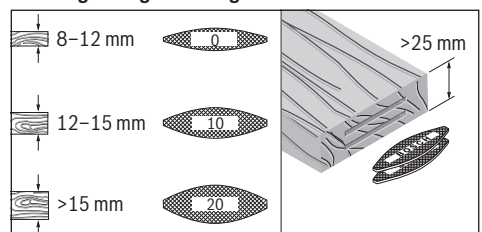
The arrow (13) on the power tool housing indicates the rotational direction of the side milling cutter.

Routing Tongue-and-Groove Joints

Examples of the following types of joint can be found on the graphics pages:

- **Corner joints:** with angle guide see figure C, with height-adjustable stop see figure D
- **Mitre/bevel joints:** with angle guide see figure E, with height-adjustable stop see figure F
- **Longitudinal and transverse joints:** with angle guide see figure G, with height-adjustable stop see figure H
- **Frame joints:** see figure I
- **Mid-wall joints:** see figure J

Selecting the Right Jointing Biscuit



For a solid connection, use the largest possible jointing biscuits (slats). The Bosch range of accessories includes suit-

able jointing biscuits (see accessories page at the end of the operating instructions).

Routing Thin Workpieces (see figure K)

To rout workpieces less than 16 mm in thickness, place the clip-on plate **(17)** on the angle guide **(18)**. This ensures that the slot is not too close to the top of the workpiece. When calculating the horizontal routing position, take into account the thickness of the clip-on plate.

Use the clip-on plate **(17)** to ensure the slot is not too deep, including on mitre/bevel joints on thin workpieces.

Routing Narrow Workpieces

When routing narrow workpieces, use the height-adjustable stop **(9)** if possible. Make sure that the maximum routing width marks **(10)** on it do not exceed the workpiece.

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.**

If necessary, clean and grease the guides. Use only non-resinous oil for this purpose (e.g. sewing machine oil).

Retightening the Clamping Lever

You can readjust the clamping force of the clamping levers **(3)** and **(12)** as required. To do this, loosen the clamping levers and unscrew them. Position the clamping lever, offset at least 30° anticlockwise, and retighten it.

After-Sales Service and Application Service



<https://www.bosch-pt.com/serviceaddresses>

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!

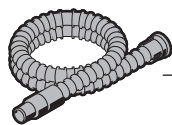
Only for EU countries and United Kingdom:

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.

Manufacturer's warranty



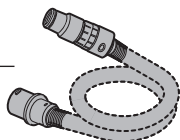
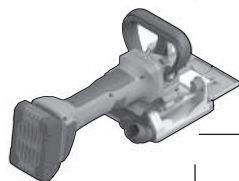
<https://www.bosch-pt.com/guarantee/202601>



Ø 28 mm:
2 608 000 772 (3 m)



GAS 18V-12 MC



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



GAS 35 M AFC

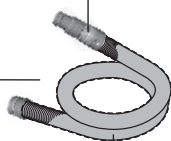


Ø 35 mm:
2 608 000 570 (3 m)
2 608 000 566 (5 m)



GAS 55 M AFC

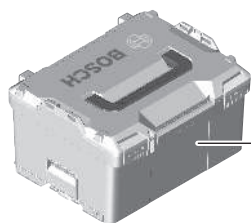
2 608 000 886



Ø 28 mm:
2 608 000 885 (4 m)



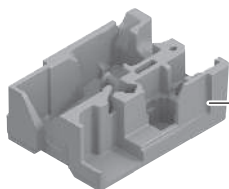
GAS 12-40 MA



L-Boxx 238
1 600 A01 2G2



3 605 700 154



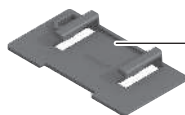
1 600 A02 WZ9



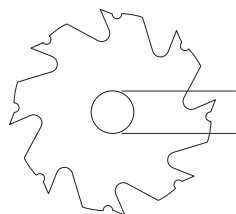
1 600 A02 7JS



1 607 950 043



1 600 A02 LR1



3 608 641 013

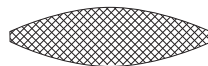


3,9 mm

Ø 22 mm



8x



0 (45 mm x 15 mm x 4 mm):
2 607 000 147 (1000x)
2 607 000 796 (50x)



10 (55 mm x 19 mm x 4 mm):
2 607 000 148 (1000x)
2 607 000 797 (50x)



20 (60 mm x 23 mm x 4 mm):
2 607 000 149 (1000x)
2 607 000 103 (50x)

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