



BOSCH

PRO

GHO18V-20

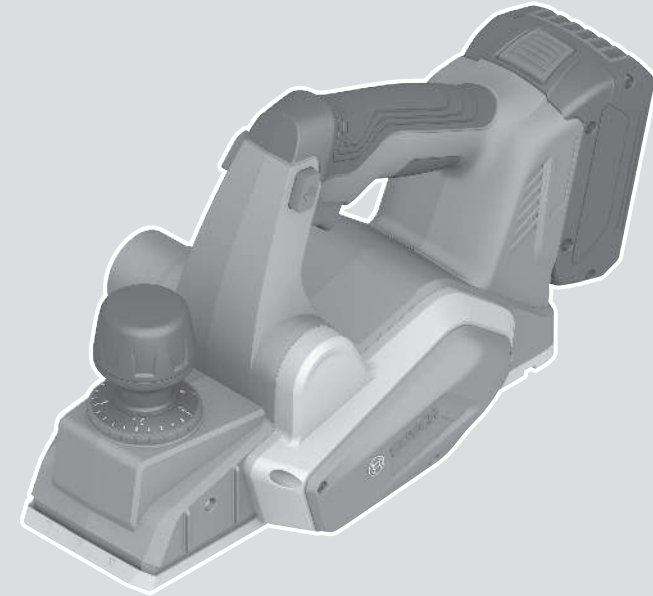
Robert Bosch Power Tools GmbH
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GERMANY

www.bosch-pt.com

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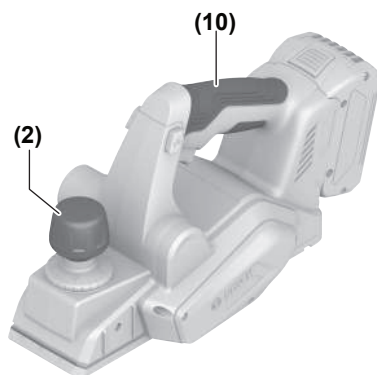
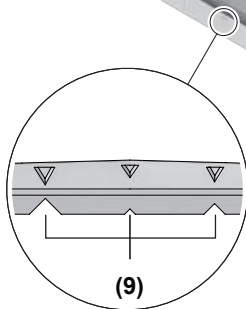
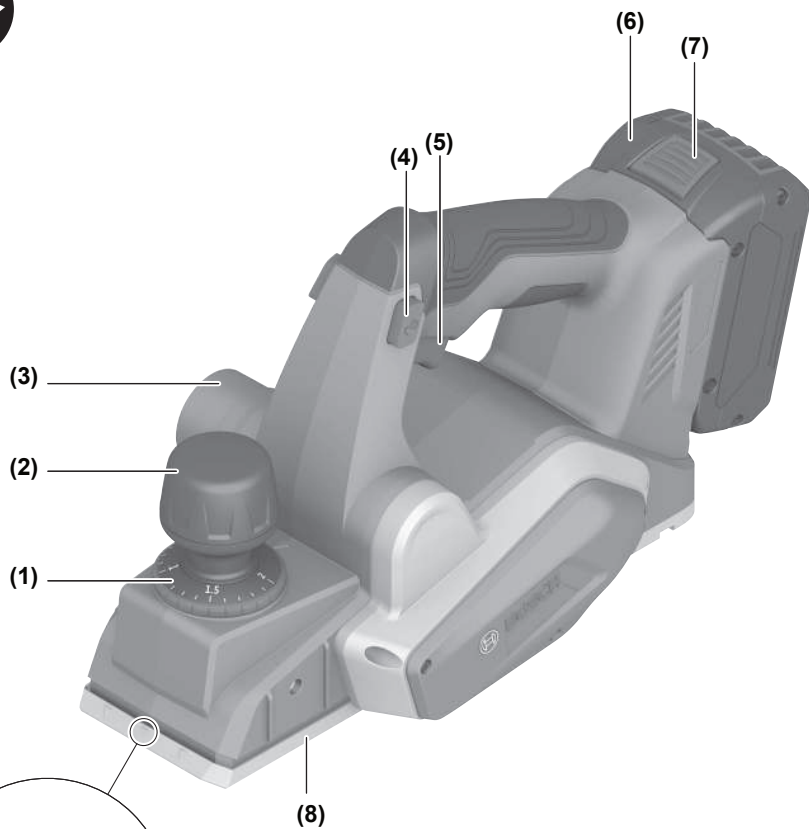


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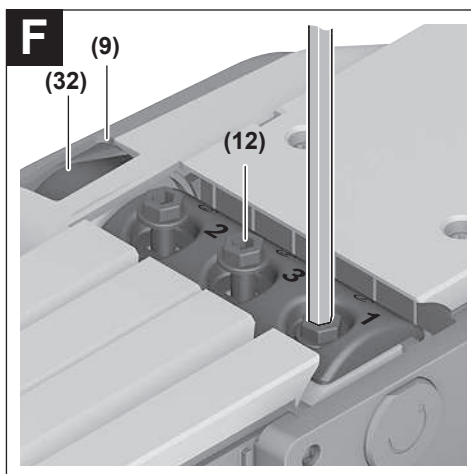
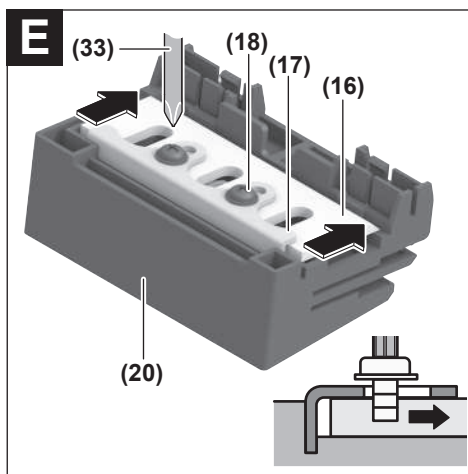
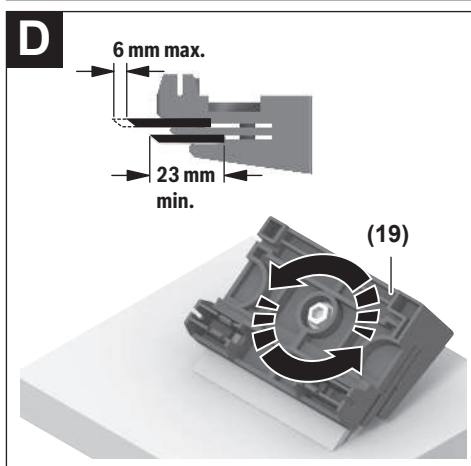
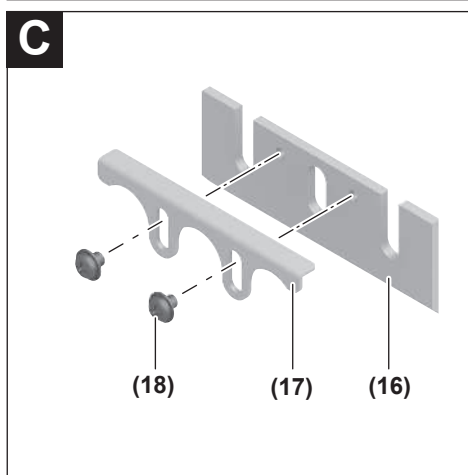
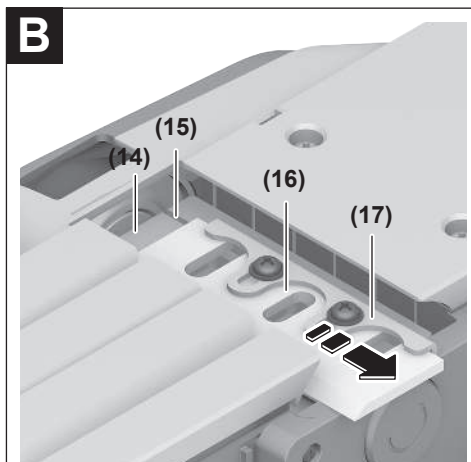
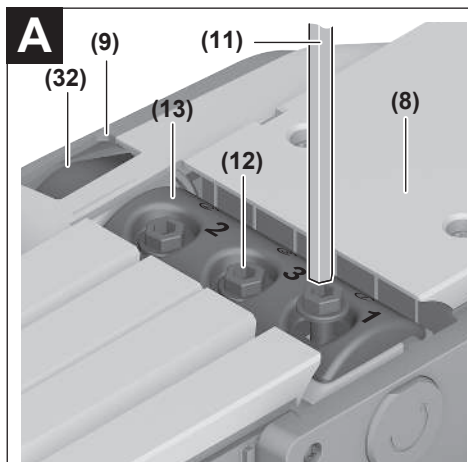


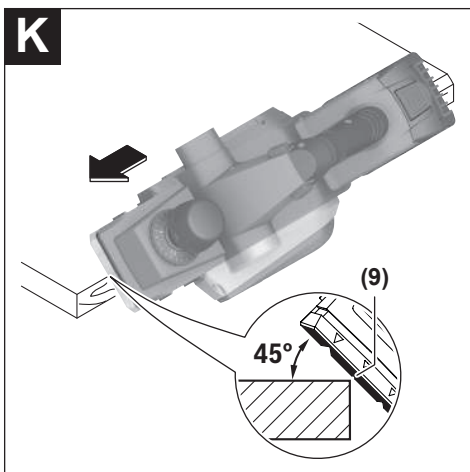
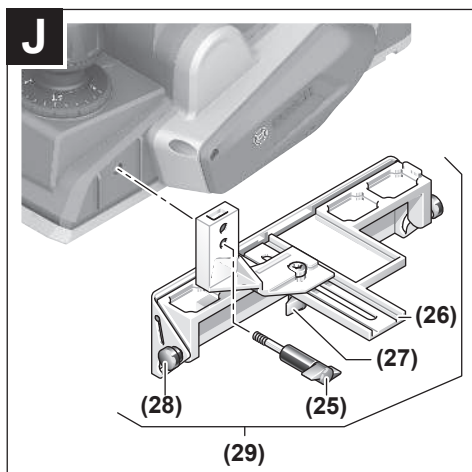
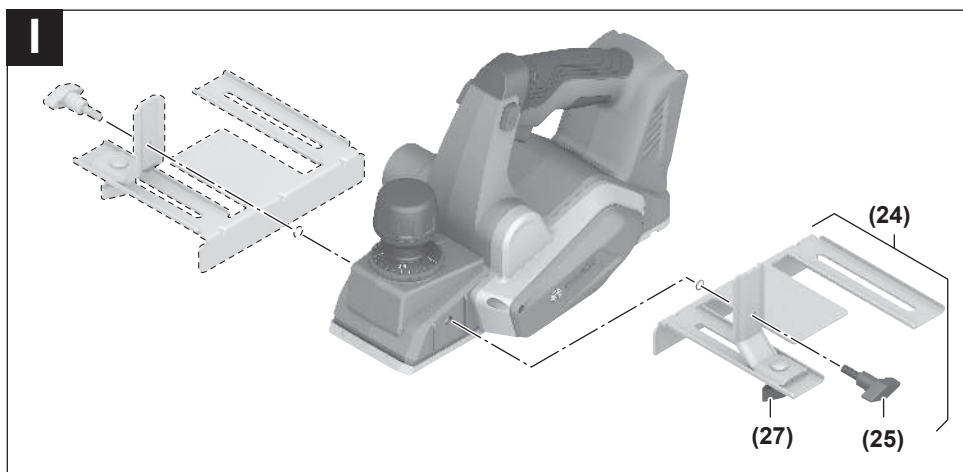
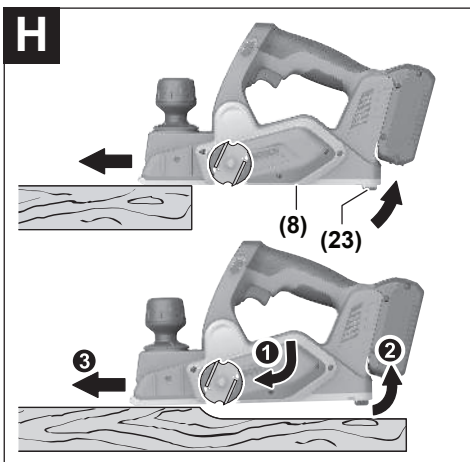
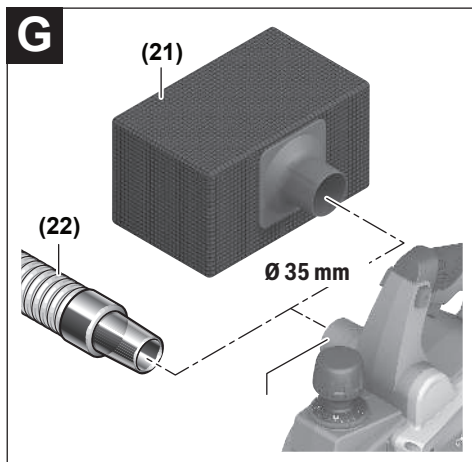
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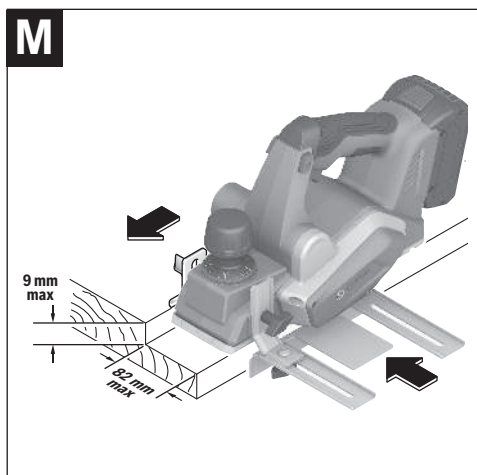
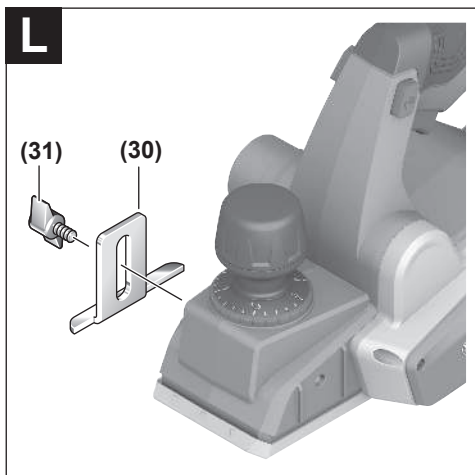




GH018V-20







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 instructions for planers

- ▶ **Wait for the cutter to stop before setting the tool down.** An exposed rotating cutter may engage the surface leading to possible loss of control and serious injury.
- ▶ **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the workpiece by your hand or against the body leaves it unstable and may lead to 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 allow the chip ejector to come into contact with your hands.** You may be injured by rotating parts.
- ▶ **Never plane over metal objects, nails or screws.** Cutters and cutter shafts 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.

- ▶ **While working, always hold the planer in such a way that the planer base plate lies flat against the workpiece.** Otherwise the planer could slip and cause injury.
- ▶ **Hold the power tool firmly with both hands and make sure you have a stable footing.** The power tool can be more securely guided with both hands.
- ▶ **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.



max. 50°C



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 planing wood-based materials such as beams and boards while resting firmly on the workpiece. It is also suitable for chamfering edges and for rebating.

Product features

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

- (1) Cutting depth scale
- (2) Knob for setting the cutting depth (insulated gripping surface)
- (3) Chip ejector
- (4) Lock-off function for on/off switch
- (5) On/off switch
- (6) Rechargeable battery^{a)}
- (7) Battery release button^{a)}
- (8) Planer base plate

- (9) V-grooves
- (10) Handle (insulated gripping surface)
- (11) Hex key^{a)}
- (12) Fastening screw for clamping jaw
- (13) Clamping jaw
- (14) Blade head
- (15) Guide groove for planer blade
- (16) HSS planer blade
- (17) HSS planer blade retaining clip
- (18) Fastening screw for HSS planer blade retaining clip
- (19) Sharpening aid for HSS planer blades
- (20) Setting gauge for HSS planer blades
- (21) Chip/dust bag
- (22) Extraction hose (dia. 35 mm)^{a)}
- (23) Parking rest
- (24) Parallel guide
- (25) Fastening screw for parallel/angle guide
- (26) Scale for rebate width^{a)}
- (27) Fastening screw for rebate width setting
- (28) Locking nut for angle setting^{a)}
- (29) Angle guide^{a)}
- (30) Rebate depth guide^{a)}
- (31) Fastening screw for rebate depth guide^{a)}
- (32) Drive belt (for turning the blade head)
- (33) Cross-headed screwdriver^{a)}

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

Technical data

Planer	GHO18V-20	
Article number	3 601 EB5 2..	
Rated voltage	V---	18
No-load speed ^{A)}	min ⁻¹	14000
Cutting depth	mm	0–2.0
Rebate depth	mm	0–9
Max. planing width	mm	82
Weight ^{B)}	kg	2.3
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation ^{C)} and during storage	°C	–20 to +50
Recommended rechargeable batteries	GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...	

Planer	GHO18V-20
Recommended battery chargers	GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

A) Measured at 20–25 °C with rechargeable battery **GBA 18V 4.0Ah**

B) With planer blade, 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.

Rechargeable battery

Bosch sells some cordless power tools without a rechargeable battery. You can tell whether a rechargeable battery is included with the power tool by looking at the packaging.

Charging the battery

► **Use only the chargers listed in the technical data.** Only these chargers are matched to the lithium-ion battery of your power tool.

Note: Lithium-ion rechargeable batteries are supplied partially charged according to international transport regulations. To ensure full rechargeable battery capacity, fully charge the rechargeable battery before using your tool for the first time.

Inserting the Battery

Push the charged battery into the battery holder until it clicks into place.

Removing the Battery

To remove the rechargeable battery, press the battery release button and pull the battery out. **Do not use force to do this.**

The rechargeable battery has two locking levels to prevent the battery from falling out if the battery release button is pressed unintentionally. The rechargeable battery is held in place by a spring when fitted in the power tool.

Battery charge indicator

Note: Not all battery types have a battery charge indicator.

The green LEDs on the battery charge indicator indicate the state of charge of the battery. For safety reasons, it is only possible to check the state of charge when the power tool is not in operation.

Press the button for the battery charge indicator  or  to show the state of charge. This is also possible when the battery is removed.

If no LED lights up after pressing the button for the battery charge indicator, then the battery is defective and must be replaced.

Rechargeable battery type GBA 18V... | GBA18V...



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

Battery model ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Capacity
5 × continuous green light	80–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous green light	5–20 %
1 × flashing green light	0–5 %

Battery defect risk detection

EXPERT18V... | EXBA18V...

In addition to the state of charge of the rechargeable battery, the LEDs on the battery charge indicator can also indicate the risk of a battery defect.

To activate the function, press and hold the button for the battery charge indicator  for 3 seconds. The analysis of the battery is signalled by a moving light on the battery charge indicator. The result of is shown on the battery charge indicator.

 **1 LED:** The rechargeable battery has a high defect risk. Performance and runtime may already be reduced. Replacing the rechargeable battery is recommended.

 **5 LEDs:** The rechargeable battery is in good condition and has a low defect risk.

Please note: The rechargeable battery defect risk assessment works in a binary manner and offers a simplified status assessment, indicating either that the rechargeable battery is in good condition or that the rechargeable battery has an increased defect risk. A percentage of the battery status is not shown.

Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water.

Only store the battery within a temperature range of –20 to 50 °C. Do not leave the battery in your car in the summer, for example.

Occasionally clean the ventilation slots on the battery using a soft brush that is clean and dry.

A significantly reduced operating time after charging indicates that the battery has deteriorated and must be replaced. Follow the instructions on correct disposal.

Fitting

► **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.

Planer Blade

Always change both planer blades – replacing just one blade will create an imbalance that could cause vibrations and shorten the service life of the power tool.

Changing the HSS Planer Blades

► **Take care when changing the planer blade. Do not pick up the planer blade by the cutting edges.** You may be injured by the sharp cutting edges.

Removing the Planer Blades (see figures A–C)

- To replace the planer blades turn the drive belt **(32)** at the opening until the clamping jaw **(13)** is parallel with the planer base plate **(8)**.
- Unscrew the three fastening screws **(12)** with the hex key **(11)** and remove the clamping jaw **(13)**.
- Push the retaining clip **(17)** together with the planer blade **(16)** out of the blade head **(14)** and/or the guide groove **(15)**.
- Turn the blade head 180° and remove the second planer blade.

Note: Before changing or sharpening the planer blades, remove the retaining clip **(17)** by undoing the fastening screw **(18)**.

Resharpener HSS Planer Blades (see figure D)

Worn or blunt **HSS** planer blades can be sharpened using the sharpening aid **(19)** (accessory) and a commercially available grinding stone.

Place both planer blades in the sharpening aid and clamp them firmly with the wing bolt. Make sure that both planer blades are pushed in fully.

Move the planer blades placed in the sharpening aid steadily across the grinding stone, applying light pressure.

Note: The planer blades must not be sharpened by more than 6 mm (i.e. to a minimum width of 23 mm). Both planer blades must be replaced when they reach this size.

Fitting the Planer Blades (see figures E–F)

Before (re)inserting new or sharpened planer blades, clean the blade head **(14)** and, if necessary, the planer

blade (16) and the retaining clip (17). Clean heavily gummed planer blades with spirits or petroleum.

Note: New and resharpened planer blades must always be set to the correct height before fitting.

The setting gauge (20) (accessory) is used to adjust the height of the planer blades. Place the planer blade (16) and the retaining clip (17) on the setting gauge. Make sure that the blade retainer (17) engages in the groove intended for this purpose. Press the planer blade (16) against the guide and fix the retaining clip (17) in this position with the fastening screw (18). This will automatically adjust the correct height.

The planer blade must be fitted and aligned with the **centre of the planer base plate (8)**. Then tighten the three fastening screws (12) with the hex key (11). Ensure that the tightening sequence (① ② ③) on the clamping jaw (13) is followed correctly.

Note: Check that the fastening screws (12)/(18) are firmly tightened before starting operation. Turn the blade head (14) on the drive belt (32) by hand and ensure that the planer blade is not brushing at any point.

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.

Requirements for the Dust Extractor

Recommended hose nominal diameter	mm	28
Required vacuum pressure ^{A)}	mbar hPa	≥ 220 ≥ 220
Required flow rate ^{A)}	l/s m³/h	≥ 28 ≥ 100.8
Recommended filter efficiency	HEPA or 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.

External Dust Extraction (see figure G)

An extraction hose (dia. 35 mm) (22) can be connected to the chip ejector.

Connect the dust extraction hose (22) to a dust extractor (accessory). You will find an overview of how to connect to various dust extractors at the end of these operating instructions.

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 (see figure G)

A chip/dust bag (21) can be used for smaller jobs. Insert the dust bag nozzle of the chip/dust bag firmly into the chip ejector (3). Empty the chip/dust bag (21) at regular intervals to maintain optimum dust collection.

Clean the chip ejector (3) regularly. Clean a clogged chip ejector using a suitable tool, e.g. a piece of wood, compressed air, etc.

► **Do not allow the chip ejector to come into contact with your hands.** You may be injured by rotating parts.

Always use an external dust extraction device or chip/dust bag to guarantee optimum suction.

Operation

Start-up

Setting the cutting depth

Using the knob (2), the cutting depth can be continuously adjusted between **0–2.0 mm** with the aid of the cutting depth scale (1) (scale division = **0.1 mm**).

Switching on/off

► **Make sure that you are able to press the On/Off switch without releasing the handle.**

To **start** the power tool, first press the lock-off switch (4), then press and hold the on/off switch (5).

To **switch off** the power tool, release the on/off switch (5).

Note: For safety reasons, the on/off switch (5) cannot be locked; it must remain pressed during the entire operation.

Practical advice

► **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.

Servicestation

The service station in the case can be used as a mounting fixture for the planer, e.g. for changing the blade.

► **Do not use the service station for stationary operation of the planer.**

Parking rest (see figure H)

The parking rest (23) makes it possible to put down the power tool directly after working, without any danger of damaging the workpiece or planer blade. During the work process, the parking rest (23) is highly pivoted and the rear section of the planer base plate (8) is released.

Note: The parking rest (23) must not be removed.

Planing Procedure (see figure H)

Set the required cutting depth and position the power tool with the front section of the planer base plate (8) on the workpiece.

► **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.

Switch on the power tool and guide it over the surface of the workpiece, applying uniform feed.

To achieve high-quality surfaces, apply only a low feed rate and exert pressure on the middle of the planer base plate.

For the processing of hard materials, such as hardwood, and also when utilising the maximum planing width, set only a low cutting depth and reduce the planer feed as appropriate.

Excessive feed reduces the quality of the surface finish and can lead to the chip ejector quickly becoming blocked.

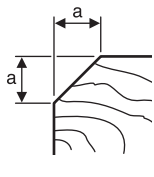
Only sharp planer blades achieve good cutting performance and make the power tool last longer.

The integrated parking rest (23) also enables a continuation of the planing procedure following interruption at any point on the workpiece:

- Place the power tool – with parking rest folded down – onto the area of the workpiece that you will continue to work on.
- Switch the power tool on.
- Shift the contact pressure onto the front of the planer base plate and slowly slide the power tool forward (➡). In doing so, the parking rest will swivel upwards and out of the way (⬅), meaning that the rear section of the planer base plate is in contact with the workpiece again.
- Guide the power tool over the surface of the workpiece, applying uniform feed (➡).

Chamfering edges (see figure K)

The V-grooves in the front of the planer base plate enable quick and easy chamfering of workpiece edges. Select the V-groove that corresponds to your chamfering width. Then position the planer with the V-groove onto the edge of the workpiece and guide it along.

	Groove used	Dimension a (mm)
	None	0–2.5
	Small	1.5–4.0
	Medium	2.0–4.5
	Large	3.0–5.5

Planing with the Parallel/Angle Guide (see figures I–M)

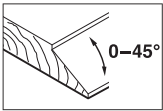
Attach the parallel guide (24) or the angle guide (29) to the power tool with the fastening screw (25). Depending on the application, attach the rebate depth guide (30) to the power tool with the fastening screw (31).

Loosen the locking nut (27) and set the desired rebate width on the scale (26). Retighten the locking nut (27).

Set the desired rebate depth accordingly using the rebate depth guide (30).

Carry out the planing procedure several times until the desired rebate depth has been achieved. Guide the planer with sideways contact pressure.

Chamfering with angle guide



Use the angle setting (28) to set the necessary helix angle when chamfering grooves and surfaces.

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.**

Keep the parking rest (23) clear and clean it regularly.

When the carbon brushes are worn out, the power tool switches itself off. The power tool must be sent to the after-sales service for maintenance; see the "After-Sales Service and Application Service" section for addresses.

Keep the parking rest (23) clear and clean it regularly.

After-Sales Service and Application Service

Malaysia

Tel.: (03) 79663194

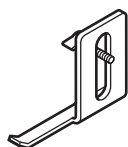
In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

Disposal

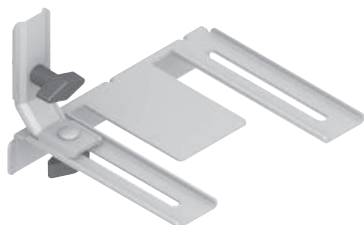
Power tools, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.



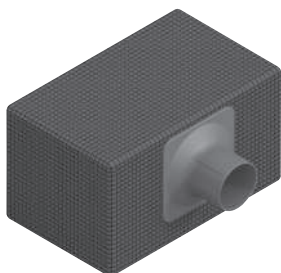
Do not dispose of power tools and batteries/rechargeable batteries into household waste!



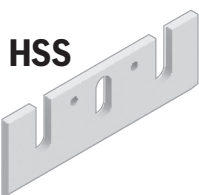
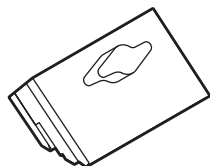
2 607 000 073



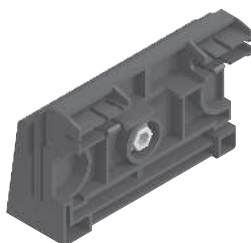
2 607 000 102



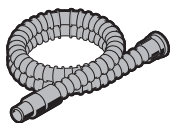
2 605 411 035

**HSS**2 607 00 193
(2x)

2 608 133 002



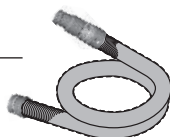
1 619 PC5 011



Ø 28 mm:
2 608 000 772 (3.2 m)



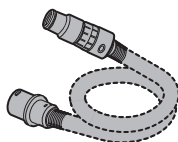
GAS 18V-12 MC



Ø 28 mm:
2 608 000 885 (4 m)



GAS 12-40 MA



Ø 22 mm:
2 608 000 567 (5 m)
Ø 35 mm:
2 608 000 565 (5 m)



GAS 35 M AFC



GAS 55 M AFC



Ø 22 mm:
2 608 000 568 (5 m)
Ø 35 mm:
2 608 000 566 (5 m)

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1.6 - picolibc 1.8.8

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