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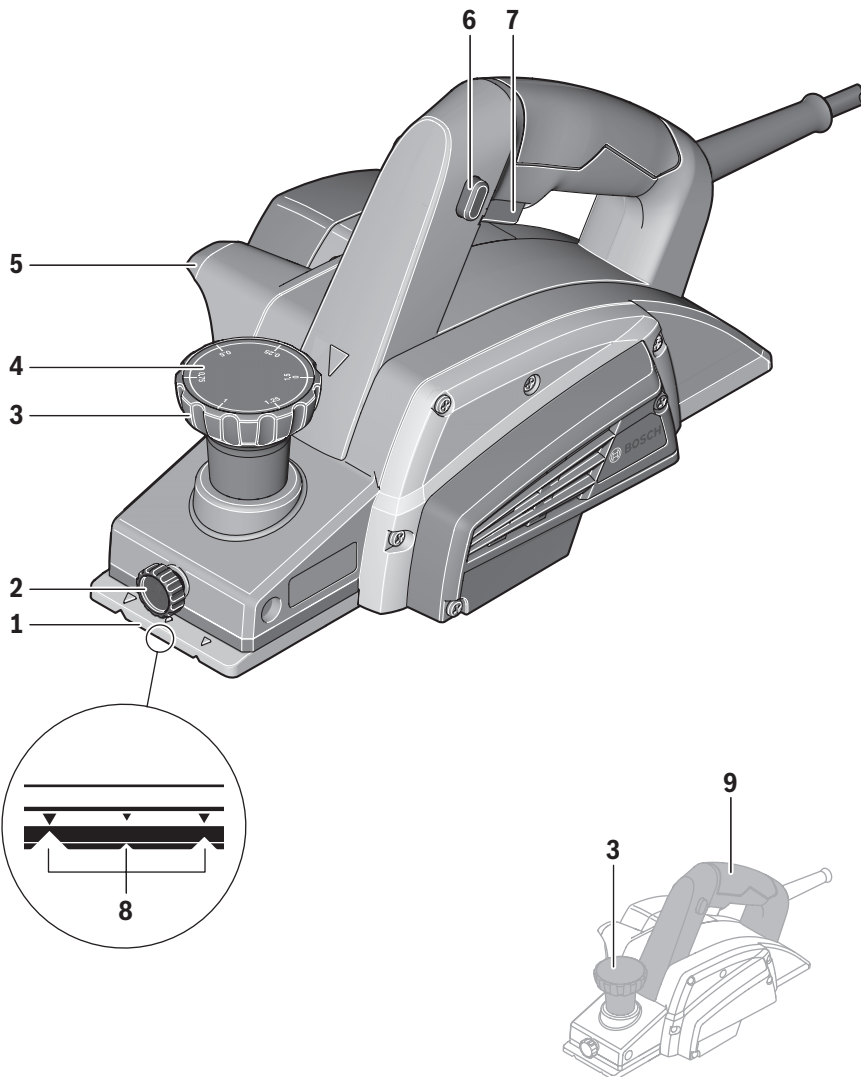
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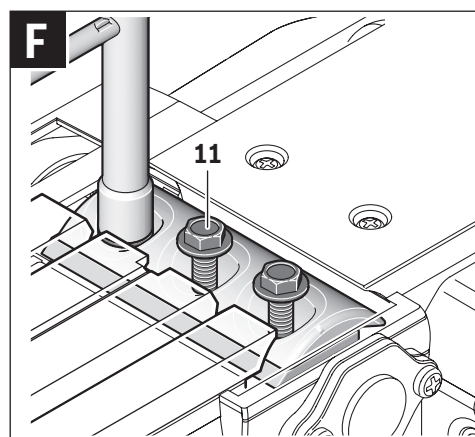
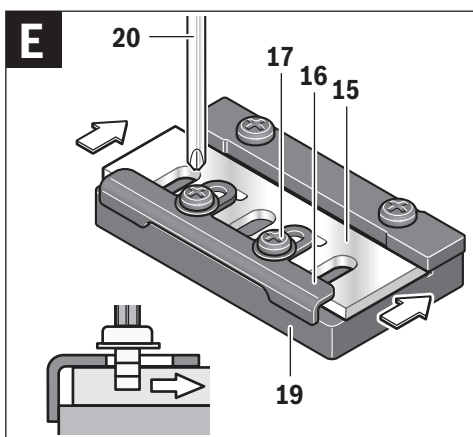
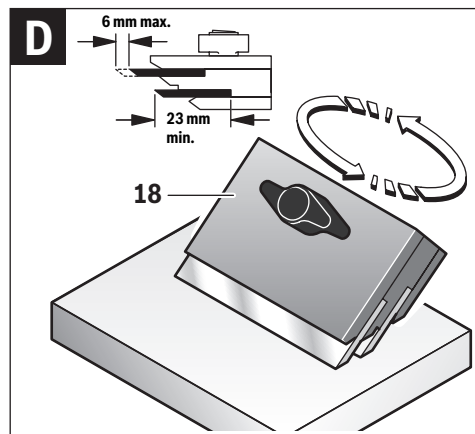
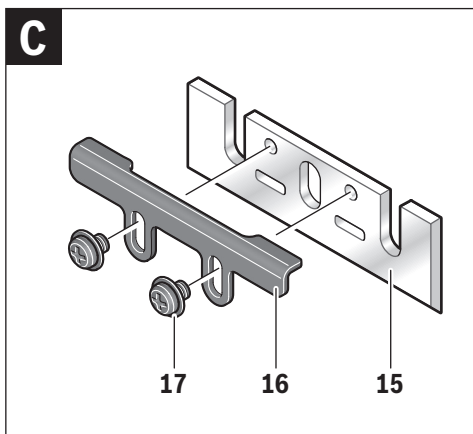
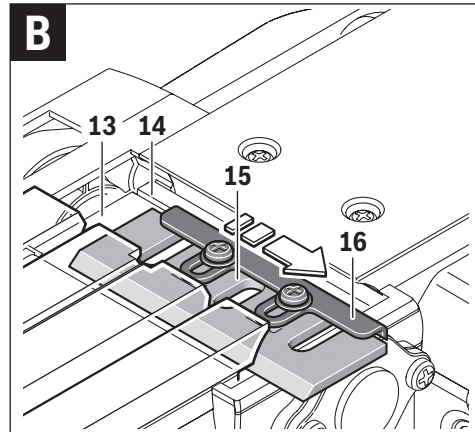
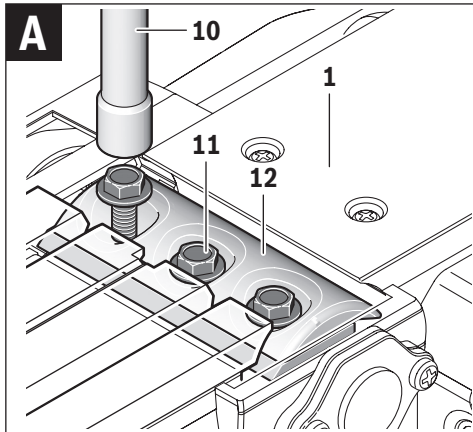


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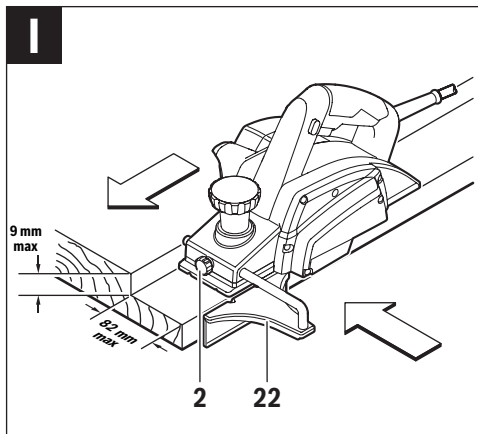
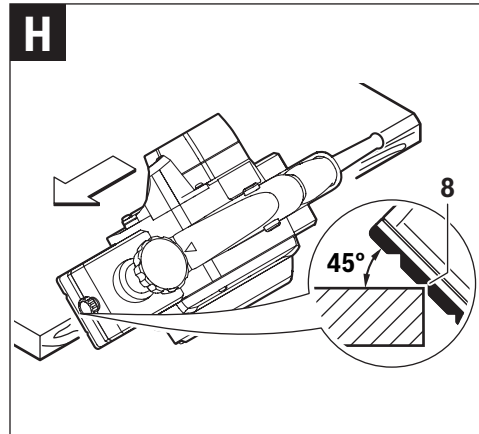
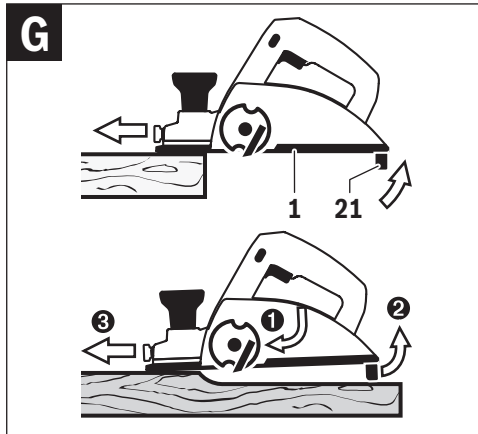


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Safety Notes

General Power Tool Safety Warnings

⚠ WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- ▶ **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- ▶ **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- ▶ **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- ▶ **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- ▶ **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- ▶ **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
- ▶ **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- ▶ **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

Personal safety

- ▶ **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- ▶ **Use personal protective equipment. Always wear eye protection.** Protective equipment such as 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, clothing and gloves 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.

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 the battery pack 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. 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.

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.

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Planer Safety Rules

- ▶ **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.
- ▶ **Hold the power tool by insulated gripping surfaces only, because the cutter may contact its own cord.** Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ▶ **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
- ▶ **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- ▶ **Do not reach into the saw dust ejector with your hands.** They could be injured by rotating parts.
- ▶ **Apply the machine to the workpiece only when switched on.** Otherwise there is danger of kickback when the cutting tool jams in the workpiece.
- ▶ **When working, always hold the planer in such a manner that the planer base plate faces flat on the workpiece.** Otherwise the planer can become wedged and lead to injuries.
- ▶ **Never plane over metal objects, nails or screws.** The planer blade and the blade shaft can become damaged and lead to increased vibrations.

Products sold in GB only: Your product is fitted with a BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

Products sold in AUS and NZ only: Use a residual current device (RCD) with a rated residual current of 30 mA or less.

Product Description and Specifications

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Intended Use

The machine is intended for planing of firmly supported wooden materials, such as beams and boards. It is also suitable for beveling edges and rebating.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

- 1 Planer base plate
- 2 Fastening bolt for parallel guide
- 3 Depth adjustment knob (insulated gripping surface)
- 4 Planing depth scale
- 5 Sawdust ejector
- 6 Lock-on button for On/Off switch
- 7 On/Off switch
- 8 V-grooves
- 9 Handle (insulated gripping surface)
- 10 T-handle wrench
- 11 Fastening screw for clamping jaw
- 12 Clamping jaw
- 13 Blade drum
- 14 Guide groove for planer blade
- 15 HSS planer blade
- 16 HSS planer-blade retainer
- 17 Fastening screw for HSS planer-blade retainer
- 18 Sharpening device for HSS planer blade*
- 19 Setting gauge for HSS planer blade*
- 20 Screwdriver*
- 21 Park rest
- 22 Parallel guide*

*Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.

Technical Data

Planer	PHO 2-82	
Article number		3 603 B10 0..
Rated power input	W	710
Output power	W	400
No-load speed	min ⁻¹	16000
Planing depth	mm	0 – 2.0
Rebating depth	mm	0 – 7
Planing width, max.	mm	82
Weight according to EPTA-Procedure 01/2003	kg	2.9

Protection class

□/II

The values given are valid for a nominal voltage [U] of 230 V. For different voltages and models for specific countries, these values can vary.

Please observe the article number on the type plate of your machine.

The trade names of the individual machines may vary.

Assembly

- ▶ **Before any work on the machine itself, pull the mains plug.**

Planer Blade Selection

When replacing planer blades, always replace both blades; otherwise an imbalance can generate vibrations, which can reduce the service life of the power tool.

Changing HSS Planer Blades

► **Be cautious when replacing the planer blades. Do not grasp the planer blades by the cutting edges.** Possible danger of injury due to the sharp cutting edges of the planer blades.

Disassembling the Planer Blade(s) (see figures A – C)

- To reverse the planer blades, rotate the blade drum **13** until the clamping jaw **12** is parallel to the planer base plate **1**.
- Unscrew the 3 fastening screws **11** with the t-handle wrench **10** and remove the clamping jaw **12**.
- Slide the planer-blade retainer **16** together with the planer blade **15** out of the guide groove **14** of the blade drum **13**.
- Turn the blade drum by 180° and disassemble the 2nd planer blade.

Note: Before replacing or resharpening the planer blades, remove the HSS planer-blade retainer **16** by loosening the fastening screws **17**.

Resharpening HSS Planer Blades (see figure D)

Worn or dull HSS planer blades can be resharpened with the sharpening device **18** (accessory) and a commercially available whetstone.

Insert both planer blades into the sharpening device and clamp them by tightening the wing bolt. Make sure that both planer blades are completely inserted to the stop.

Move the sharpening device with the inserted planer blades uniformly and with light pressure across the whetstone.

Note: Never regrind the planer blades by more than 6 mm, based on a minimum width of 23 mm. Thereafter, both planer blades must be replaced.

Assembling the Planer Blade(s) (see figures E – F)

Before reinserting new or resharpened planer blades, clean the blade drum **13** and the planer blades **15**, if required, as well as the HSS planer-blade retainer **16**. Clean heavily gummed planer blades with spirits or petroleum.

Note: Before assembling new or resharpened planer blades, their correct height setting must be adjusted first.

The setting gauge **19** (accessory) is used for adjusting the height of the planer blades. Place the planer blade **15** and the blade retainer **16** on the setting gauge. Make sure that the blade retainer **16** engages in the groove intended for this purpose. Press the planer blade **15** against the stop and lock the blade retainer **16** in this position with the fastening screws **17**. This will automatically adjust the correct height.

Each planer blade must be assembled and aligned **centered to the planer base plate 1**. Afterwards, tighten the three fastening screws **11** with the t-handle wrench **10**.

Note: Before starting operation, check the fastening screws **11** for tight seating. Rotate the blade head **13** manually and ensure that the planer blades do not graze.

Dust/Chip Extraction

► Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- As far as possible, use a dust extraction system suitable for the material.
- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filter-class respirator.

Observe the relevant regulations in your country for the materials to be worked.

Clean the chip ejector **5** regularly. Use a suitable tool (e.g., a piece of wood, compressed air, etc.) to clean a clogged chip ejector.

► **Do not reach into the saw dust ejector with your hands.** They could be injured by rotating parts.

Operation

Operating Modes

Adjusting the Planing Depth

With the adjustment knob **3**, the planing depth can be adjusted variably from 0 – 2.0 mm using the planing depth scale **4** (scale graduation = 0.25 mm).

Park Rest (see figure G)

The park rest **21** allows the machine to be set down directly after operation, without danger of damaging the working surface or the planer blade. While planing, the park rest **21** is tilted upwards thus enabling full contact of the rear part of the planer base plate **1**.

Starting Operation

► **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

Switching On and Off

To **start** the machine, press the On/Off switch **7** and keep it pressed.

To lock the **pressed** On/Off switch **7**, press the lock-on button **6**.

To **switch off** the machine, release the On/Off switch **7** or when it is locked with the lock-on button **6**, briefly press the On/Off switch **7** and then release it.

Working Advice

Planing (see figure G)

Set the required planing depth and place the front part of the planer base plate **1** against the workpiece.

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- **Apply the machine to the workpiece only when switched on.** Otherwise there is danger of kickback when the cutting tool jams in the workpiece.

Switch the machine on and guide the machine with even feed over the surface to be planed.

To achieve high-grade surfaces, work only with low feed and apply pressure on the centre of the planer base plate.

When machining hard materials (e. g. hardwood) as well as when utilising the maximum planer width, set only low planing depths and reduce planer feed, as required.

Excessive feed reduces the surface quality and can lead to rapid clogging of the chip ejector.

Only sharp blades achieve good cutting capacity and give the machine longer life.

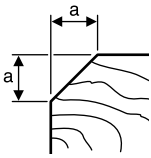
The integrated park rest **21** also allows for continued planing at any given location on the workpiece after an interruption:

- With the park rest folded down, place the machine on the location of the workpiece where the planing is to be continued.
- Switch on the machine.
- Apply the supporting pressure onto the front part of the planer base plate and slowly push the machine forward (➊). This tilts the park rest upward (➋) so that the rear part of the planer base plate faces on the workpiece again.
- Guide the machine over the surface to be planed (➌) with even feed.

Beveling Edges (see figure H)

The V-grooves in the front planer base plate allow quick and easy beveling of workpiece edges. Depending on required bevel width, use the corresponding V-groove. For this, place the planer with the V-groove onto the edge of the workpiece and guide it along the edge.

Groove to be used	Dimension a (mm)
none	0 - 4
small	2 - 6
medium	4 - 9
large	6 - 10



Planing with Parallel/Beveling Guide (see figure I)

Mount the parallel guide **22** to the machine using the fastening bolt **2**.

Carry out the planing procedure several times until the requested rebating depth is reached. Guide the planer applying sideward supporting pressure.

Maintenance and Service

Maintenance and Cleaning

- **Before any work on the machine itself, pull the mains plug.**
- **For safe and proper working, always keep the machine and ventilation slots clean.**

Ensure easy operation of the park rest **21** and clean it regularly.

When the carbon brushes wear below acceptable service tolerances, the machine will automatically cut out. The machine must be sent to customer service for maintenance (for address, see the "After-sales Service and Customer Assistance" section).

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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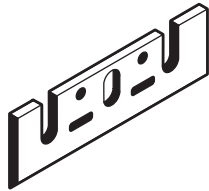
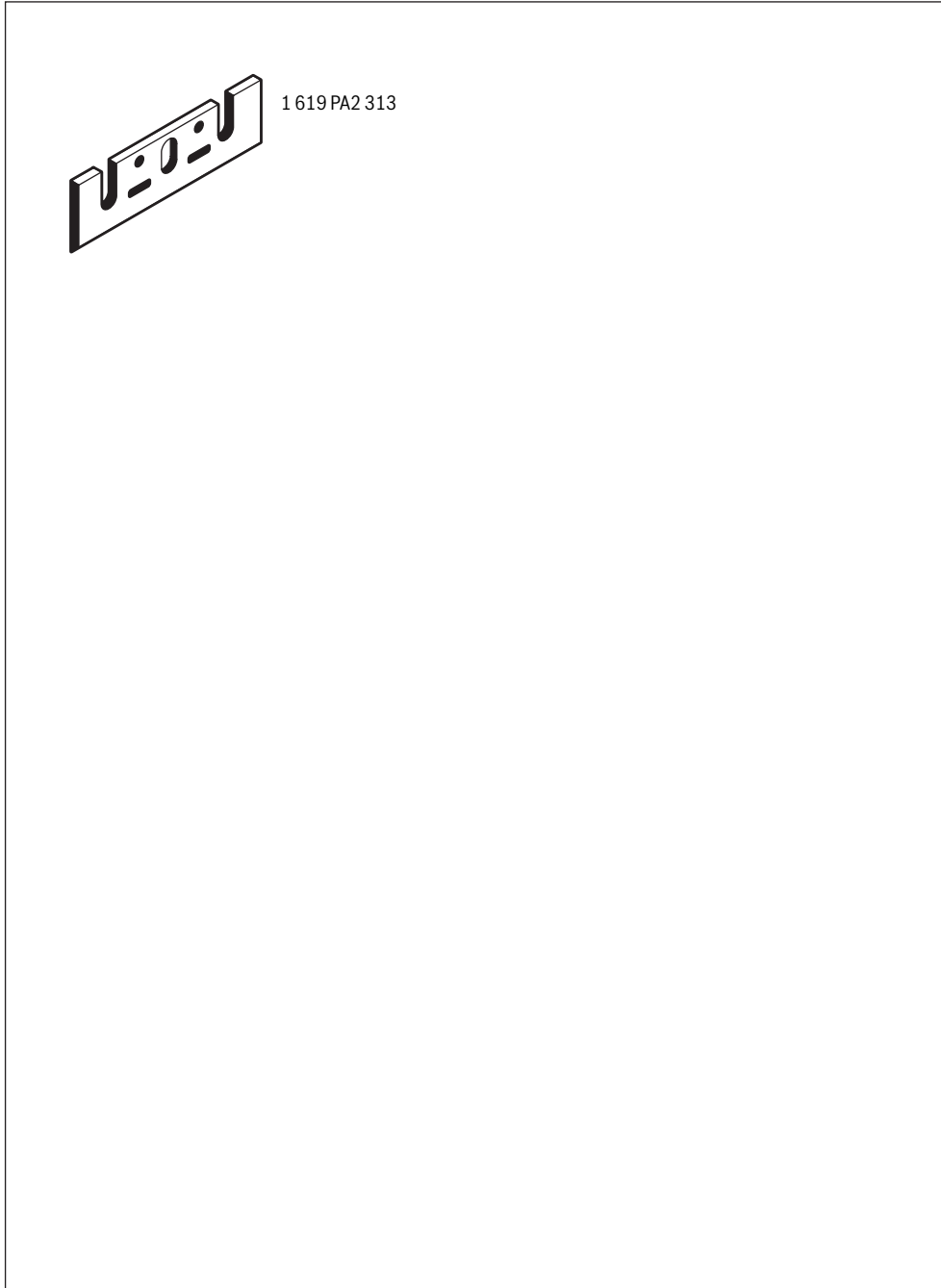
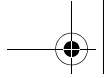
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Disposal

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of power tools into household waste!

Subject to change without notice.



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