



BOSCH

Professional
GPO 14-180 S

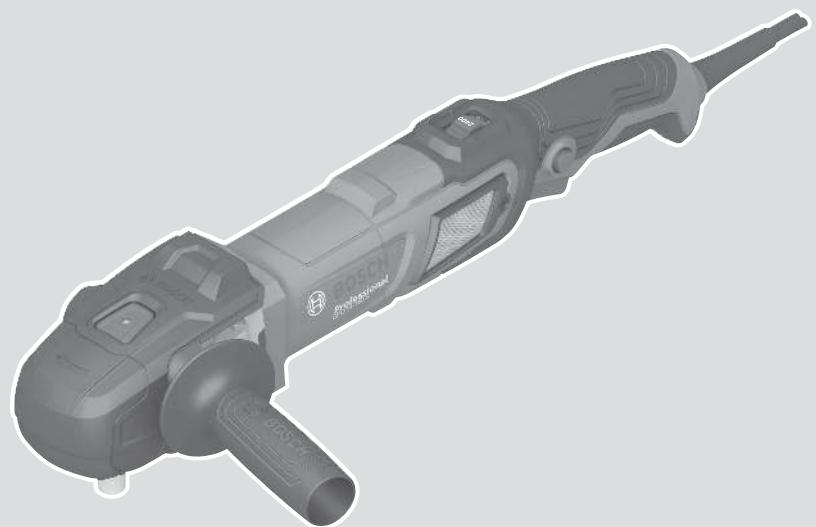
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GERMANY

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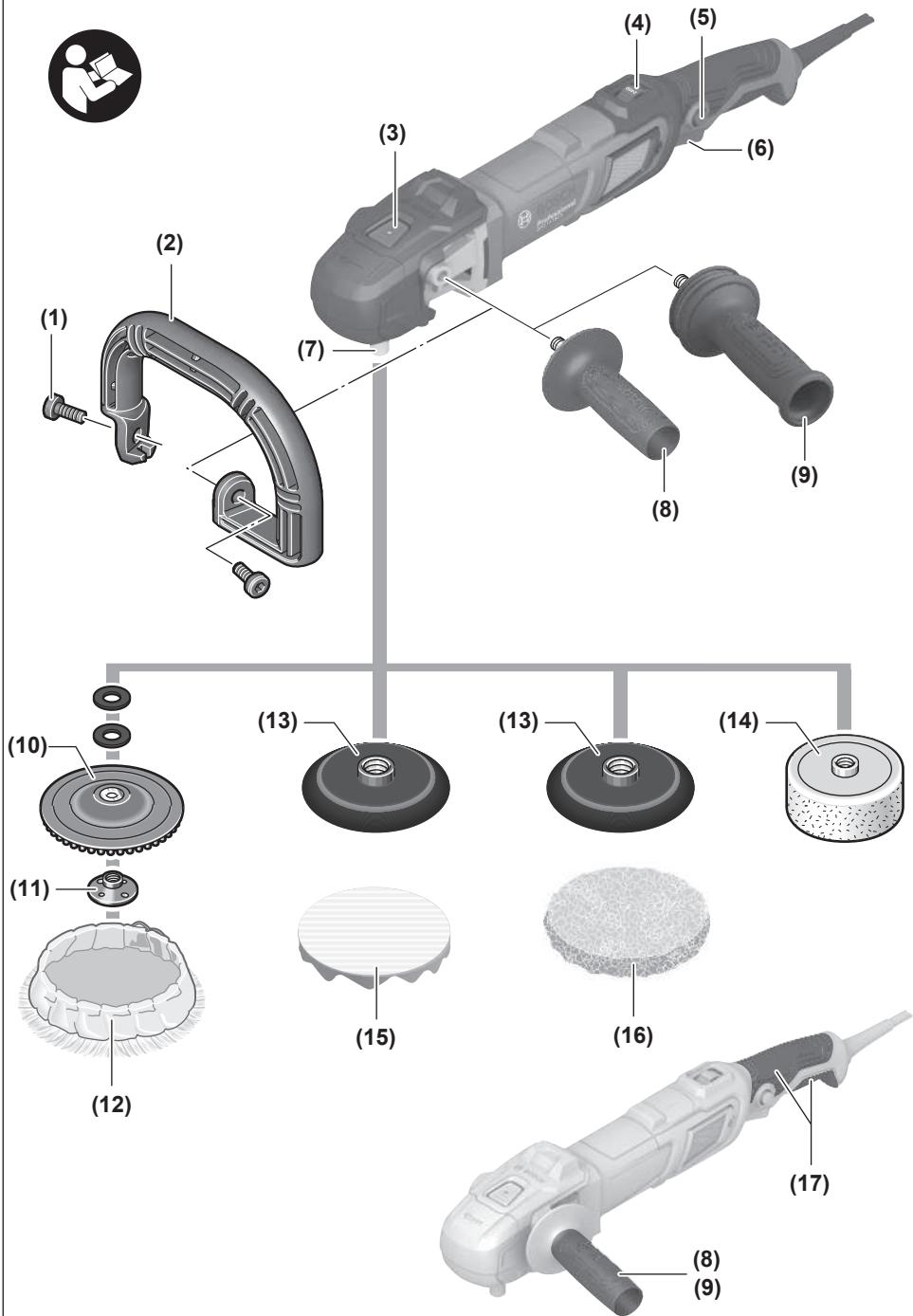


en Original instructions



CE

UK
CA



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

- ▶ **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 or 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 inatten-

tion 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.

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.

Safety Instructions for Polisher

Safety warnings common for polishing operations:

- ▶ **This power tool is intended to function as a polisher. 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.
- ▶ **Operations such as grinding, sanding, wire brushing, hole cutting or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- ▶ **Do not convert this power tool to operate in a way which is not specifically designed and specified by the tool manufacturer.** Such a conversion may result in a loss of control and cause serious personal injury.
- ▶ **Do not use accessories which are not specifically designed and specified by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- ▶ **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- ▶ **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- ▶ **The dimensions of the accessory mounting must fit the dimensions of the mounting hardware of the power tool.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- ▶ **Do not use a damaged accessory.** Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and

installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.

- ▶ **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various applications. The dust mask or respirator must be capable of filtrating particles generated by the particular application. Prolonged exposure to high intensity noise may cause hearing loss.
- ▶ **Keep bystanders a safe distance away from work area.** Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- ▶ **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- ▶ **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- ▶ **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- ▶ **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- ▶ **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- ▶ **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

Kickback and related warnings:

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip with both hands on the power tool and position your body and arms to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- **Do not attach a saw chain woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** Such blades create frequent kickback and loss of control.

Safety warnings specific for polishing operations:

- **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

Additional safety information

Wear safety goggles.



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.

- **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.
- **Release the On/Off switch and set it to the off position when the power supply is interrupted, e. g., in case of a power failure or when the mains plug is pulled.** This prevents uncontrolled restarting.

► Products sold in GB only:

Your product is fitted with an 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.

- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- **Do not hold the gearbox without the gearbox cover (plastic cover).**

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 polishing metal and coated surfaces as well as for polishing stone without the use of water.

Product Features

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

- (1) Fastening screw for bow handle^{a)}
- (2) Bow handle^{a)}
- (3) Spindle lock on button
- (4) Speed preselection thumbwheel
- (5) On/off switch locking mechanism
- (6) On/off switch
- (7) Spindle
- (8) Standard auxiliary handle (insulated gripping surface)
- (9) Vibration-damping auxiliary handle (insulated gripping surface)^{a)}
- (10) Polishing disc^{a)}
- (11) Round nut^{a)}
- (12) Lambswool bonnet for polishing disc^{a)}
- (13) Backing pad with hook-and-loop fastening^{a)}
- (14) Polishing sponge^{a)}
- (15) Polishing sponge with hook-and-loop fastening^{a)}
- (16) Polishing wool pad^{a)}
- (17) Handle (insulated gripping surface)

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

Technical Data

Polisher	GPO 14-180 S	
Article number		3 601 C89 2..
Rated power input	W	1400

Polisher	GPO 14-180 S	
Speed adjustment range	min ⁻¹	600–3500
Max. polishing disc diameter	mm	180
Spindle thread		M 14 / 5/8"
Max. spindle length	mm	21
Weight ^{A)}	kg	2.3
Protection class	□ / II	

A) With auxiliary handle, without mains connection cable
The values given are valid for a nominal voltage [U] of 240V. For different voltages and models for specific countries, these values can vary.

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 62841-2-3**.

Typically, the A-weighted noise level of the power tool is:

Sound pressure level **91** dB(A); sound power

level **99** 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 62841-2-3**:

Polishing:

$a_{h,p} = 2.4$ m/s² (K = **1.5** m/s²),

$p_{f,p} = 97$ m/s² (K = **3** m/s²)

Grinding thin metal sheets or other materials that tend to easily vibrate with a large surface area can cause the noise emission value to increase by up to 15 dB. Suitable, heavy damping mats can reduce the increased noise emissions. Increased noise emissions must be taken into consideration, both for the risk assessment of the noise output and for selecting suitable hearing protection.

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.

Fitting

Fitting Protective Equipment

- ▶ Pull the plug out of the socket before carrying out any work on the power tool.

Side handle

Screw the auxiliary handle (8)/(9) on the right or left of the machine head depending on the working method.

Bow handle

Attach the bow handle (2) to the machine head as shown in the figure.

Fitting the Polishing Tools

- ▶ Pull the plug out of the socket before carrying out any work on the power tool.

Clean the spindle (7) and all the parts to be fitted.

Lock the spindle with the spindle lock on button (3) before clamping and releasing the polishing tools.

- ▶ **Do not press the spindle lock on button while the spindle is moving.** The power tool may become damaged if you do this.

See the graphics page for fitting instructions.

Backing pad with hook-and-loop fastening

Firmly screw the backing pad with hook-and-loop fastening (13) onto the spindle (7).

Press the polishing sponge pad with hook-and-loop fastening (15) or the polishing wool pad with hook-and-loop fastening (16) firmly against the underside of the backing pad with hook-and-loop fastening (13).

Polishing disc

Screw on the round nut (11) and tighten it with the two-pin spanner. Pull the lambswool bonnet (12) over the polishing disc (10) and tighten the fastening cords.

Approved polishing tools

You can use all the polishing tools mentioned in these operating instructions.

The permissible speed [min⁻¹] or the circumferential speed [m/s] of the polishing tools used must at least match the values given in the following table.

It is therefore important to observe the permissible **rotational/circumferential speed** on the label of the polishing tool.

	max. [mm]	[mm]	[min ⁻¹]
	D	b	d
	180	–	– ≥ 3500

Dust/Chip Extraction

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

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

- Provide for good ventilation of the working place.

- It is recommended to wear a P2 filter-class respirator.

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

► **Avoid dust accumulation at the workplace.** Dust can easily ignite.

Operation

Start-Up

► **Pay attention to the mains voltage.** The voltage of the power source must match the voltage specified on the rating plate of the power tool.

► **Products that are only sold in AUS and NZ:** Use a residual current device (RCD) with a nominal residual current of 30 mA or less.

When operating the power tool using a mobile generator that does not have sufficient reserve capacity or an adequate voltage control system with inrush current boost converter, loss of performance or atypical behaviour may occur upon switch-on.

Please check the suitability of the power generator you are using, particularly with regard to the mains voltage and frequency.

Switching on/off

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

Press the lock-on button (5) to **lock** the on/off switch (6) in this position.

To **switch off** the power tool, release the on/off switch (6); or, if the switch is locked, briefly press the on/off switch (6) and then release it.

► **Always check polishing tools before using them. The polishing tools must be fitted properly and be able to move freely. Carry out a test run for at least one minute with no load. Do not use polishing tools that are damaged, run untrue or vibrate during use.** Damaged polishing tools can burst apart and cause injuries.

Speed preselection

You can preselect the required speed using the thumbwheel for speed preselection (4), even during operation. The required speed depends on the material and the working conditions; it can be ascertained through practical tests.

Thumbwheel position	No-load speed (min ⁻¹)
1	600

Thumbwheel position	No-load speed (min ⁻¹)
2	1200
3	1800
4	2400
5	3000
6	3500

► **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.

Working advice

- **Pull the plug out of the socket before carrying out any work on the power tool.**
- **Clamp the workpiece if it is not secure under its own weight.**
- **Do not load the power tool so heavily that it comes to a stop.**
- **If the power tool has been subjected to a heavy load, continue to run it at no-load for several minutes to cool down the accessory.**

Polishing

For polishing weathered lacquers and redressing scratches (e.g. acrylic glass), the power tool can be fitted with an appropriate polishing tool, e.g. lambswool bonnet, polishing felt or polishing sponge (accessory).

Select a low speed when polishing in order to avoid heating up the surface excessively.

Apply the polish to an area slightly smaller than the area which you intend to polish. Using the appropriate polishing tool, work in the polish using side-to-side or circular motions and applying moderate pressure.

Do not allow the polish to dry out on the surface; this may damage the surface. Do not expose the surface which you intend to polish to direct sunlight. Clean the polishing tools regularly to ensure good polishing results. Wash the polishing tools with mild detergent and warm water; do not use thinning agents.

Maintenance and Service

Maintenance and Cleaning

- **Pull the plug out of the socket before carrying out any work on the power tool.**
- **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**
- **In extreme conditions, always use a dust extractor if possible. Blow out ventilation slots frequently and install a residual current device (RCD) upstream.** When machining metals, conductive dust can settle inside the power tool, which can affect its protective insulation.

Store and handle the accessories carefully.

In order to avoid safety hazards, if the power supply cord needs to be replaced, this must be done by **Bosch** or by an after-sales service centre that is authorised to repair **Bosch** power tools.

After-Sales Service and Application Service

Australia

Phone: (01300) 307044

Great Britain

Tel. Service: (0344) 7360109

GB Importer:

Robert Bosch Ltd.

Broadwater Park

North Orbital Road

Uxbridge

UB9 5HJ

India

Phone: (044) 64561816

Israel

Tel. 03-9630050

Korea

Tel.: 080-955-0909 (Hotline)

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

The power tool, accessories and packaging should be recycled in an environmentally friendly manner.



Do not dispose of power tools along with household waste.

Only for EU countries and United Kingdom:

Electrical and electronic equipment that is 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.



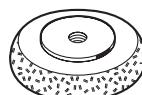
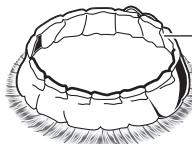
1 619 P16 111



1 602 025 0A0



1 607 950 048

Ø 180 mm
2 608 601 209 (M14)
1 619 PS5 957 (5/8")Ø 160 mm
1 608 613 0131 603 345 004 (M14)
1 619 PS5 958 (5/8")Ø 140 mm
2 608 608 305
Ø 180 mm
1 608 612 002Ø 180 mm
1 608 610 000

Ø 150 mm 2 608 612 027

Ø 170 mm 2 608 612 023 Hard
Ø 170 mm 2 608 612 024 Medium
Ø 170 mm 2 608 612 025 Soft

2 608 612 026



1 619 P07 614 (M16)

Servicekontakte
Service Contacts
Contacts de Service
Contactos de Servicio



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

Garantiebedingungen
Guarantee Conditions
Conditions de Garantie
Condiciones de Garantía



<https://www.bosch-pt.com/guarantee/202507>