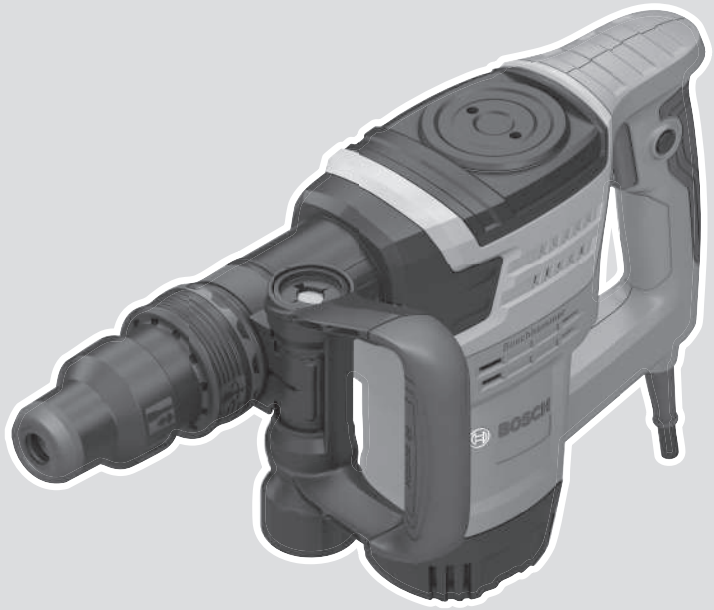
BOSCH

PRO

GSH5MX



Robert Bosch Power Tools GmbH
70538 Stuttgart
GERMANY

www.bosch-pt.com

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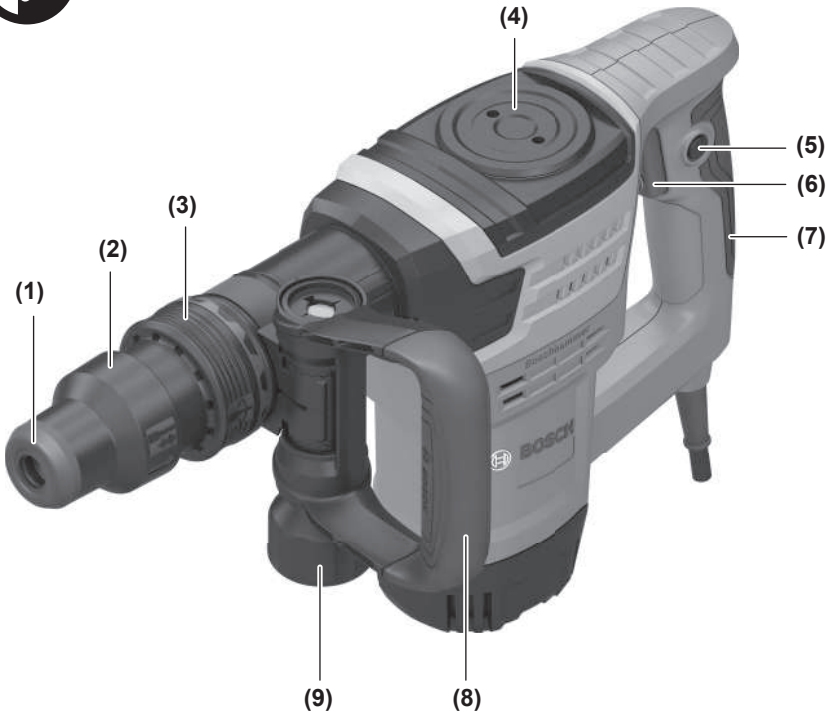
en Original instructions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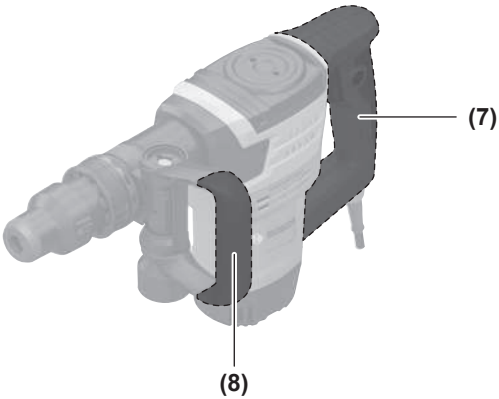
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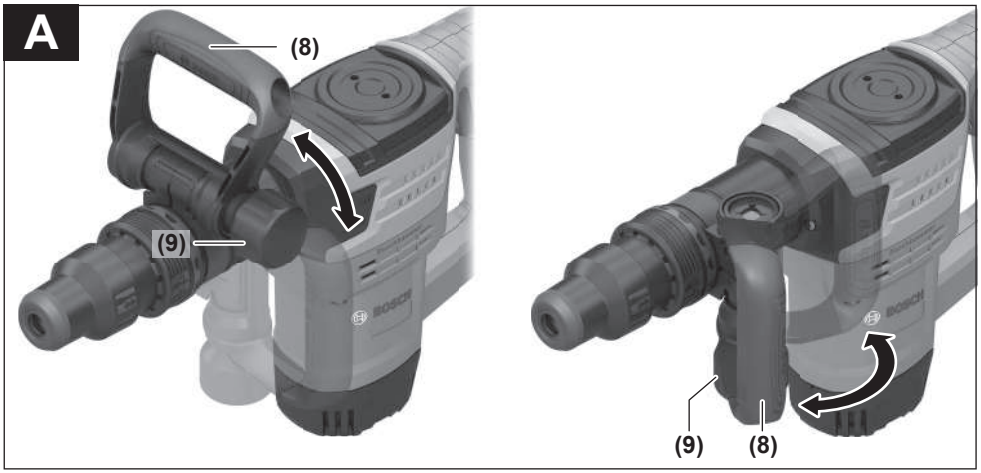
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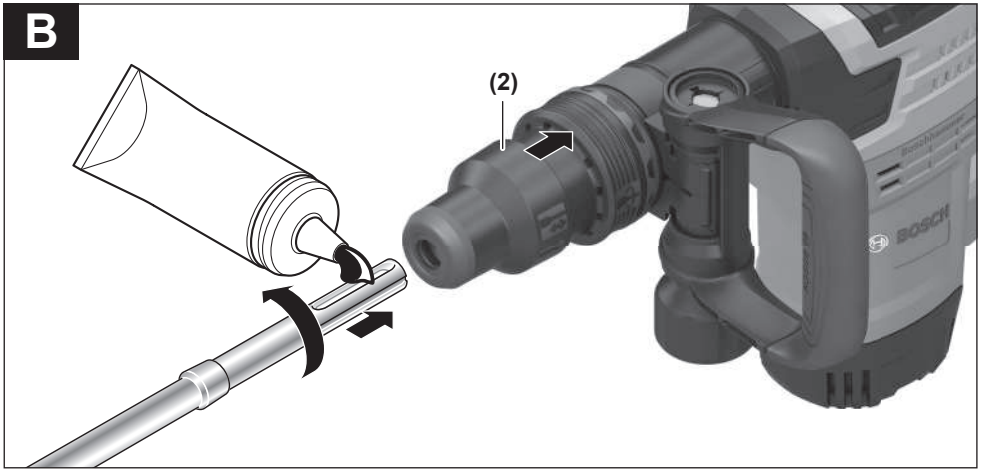
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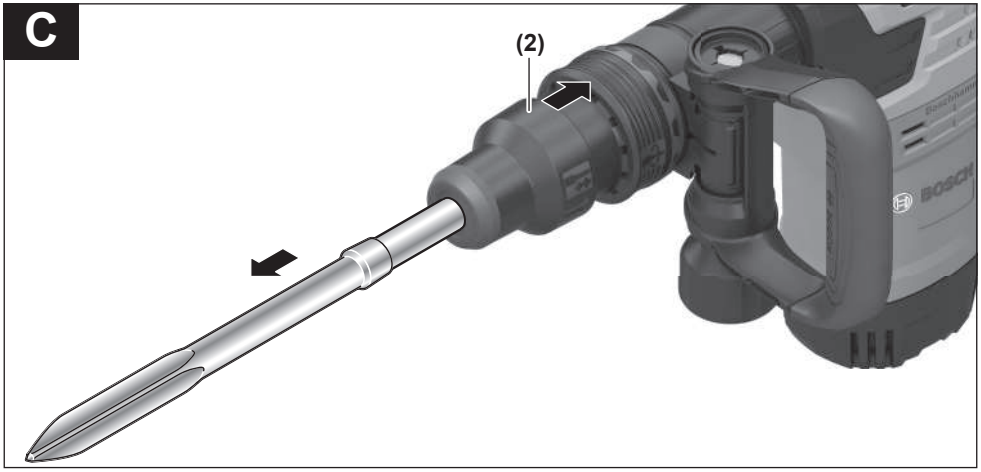
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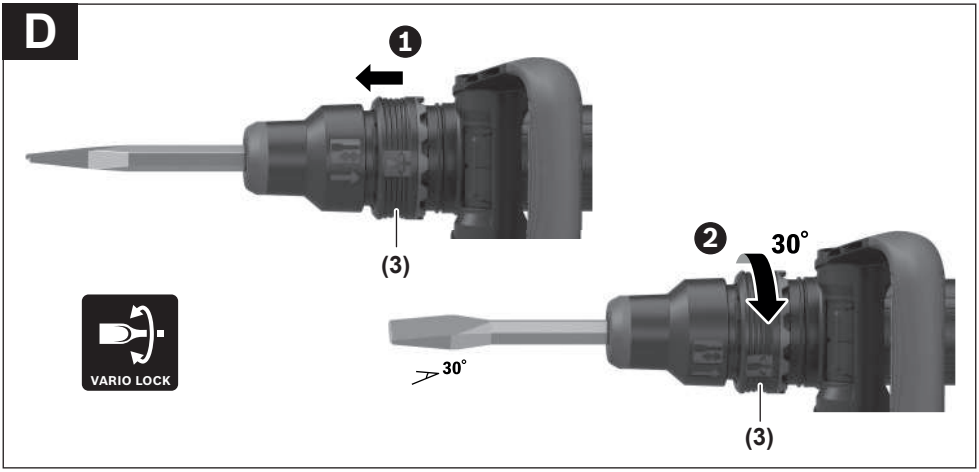

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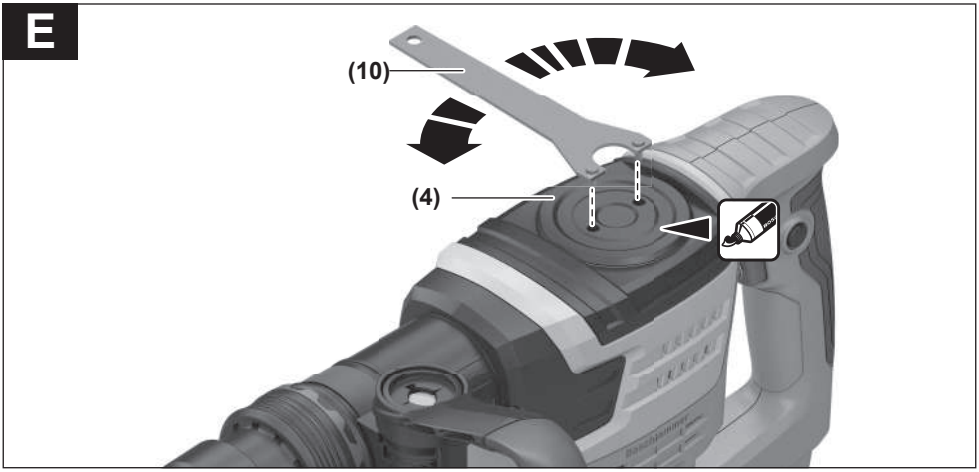


English

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 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.

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.

Hammer Safety Warnings

Safety instructions for all operations

- ▶ **Wear ear protectors.** Exposure to noise can cause hearing loss.
- ▶ **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- ▶ **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Additional Safety Instructions

- ▶ **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.
- ▶ **Always wait until the power tool has come to a complete stop before placing it down.** The application tool can jam and cause you to lose control of the power tool.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Do not touch any application tools or adjacent housing components shortly after operation.** These can become very hot during operation and cause burns.
- ▶ **Take care when carrying out demolition work using the chisel.** Falling fragments of the demolition material could injure you or any bystanders.
- ▶ **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.
- ▶ **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.

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 chiselling work in concrete, brick, stone and asphalt, as well as for driving in and compressing with the appropriate accessories.

Product Features

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

- **(1)** Dust protection cap
- **(2)** Locking sleeve
- **(3)** Chisel adjustment ring (Vario-Lock)
- **(4)** Lubricating grease cover
- **(5)** Lock-on button for on/off switch
- **(6)** On/off switch
- **(7)** Handle (insulated gripping surface)
- **(8)** Auxiliary handle (insulated gripping surface)
- **(9)** Knurled nut for auxiliary handle
- **(10)** Hook spanner[a)]

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

Technical Data

Demolition hammer		GSH5MX
Article number		**3 611 C38 9..**
Rated power input	W	1100
Impact rate	min^{-1}	2900
Tool holder		SDS max
Lubrication		Grease lubrication
Weight[A)]	kg	5.7
Protection class		⧈ / II

A) With auxiliary handle **(8)**, without mains connection cable

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit www.bosch-professional.com/wac.

Noise/Vibration Information

Noise emission values determined according to **EN IEC 62841-2-6**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **93** dB(A); sound power level **101** 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 62841-2-6**:

Chiselling: $a_{h,\,CHeq}$ = **14.4** m/s² (K = **1.5** m/s²), $p_{F,\,CHeq}$ = **365** m/s² (K = **29** m/s²)

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and may be used to compare power tools. They may also be used for a preliminary estimation of vibration and noise emissions.

The stated vibration level and noise emission value represent the main applications of the power tool. However, if the power tool is used for other applications, with different accessories or is poorly maintained, the vibration level and noise emission value may differ. This may significantly increase the vibration and noise emissions over the total working period.

To estimate vibration and noise emissions accurately, the times when the tool is switched off or when it is running but not actually being used should also be taken into account. This may significantly reduce vibration and noise emissions over the total working period.

Implement additional safety measures to protect the operator from the effects of vibration, such as servicing the power tool and accessories, keeping their hands warm, and organising workflows correctly.

Assembly

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

Auxiliary handle (see figure A)

▶ **Do not operate your power tool without the auxiliary handle (8)**.

You can swivel the auxiliary handle **(8)** to any angle for a safe work posture that minimises fatigue.

– Loosen the knurled nut **(9)**, rotate the auxiliary handle **(8)** to the required position and retighten the knurled nut **(9)**.

Changing the Tool

With the SDS max tool holder, you can change the application tool simply and easily without additional aids.

The dust protection cap **(1)** largely prevents the penetration of dust into the tool holder during operation. When inserting the tool, make sure that the dust protection cap **(1)** does not become damaged.

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

Inserting the application tool (see figure B)

– Clean and lightly grease the shank of the application tool.
– Push the locking sleeve **(2)** back and insert the application tool by turning it into the tool holder. Release the locking sleeve **(2)** to lock the application tool.
– Check the latching by pulling the tool.

Removing the application tool (see figure C)

– Push the locking sleeve **(2)** back and remove the application tool.

Dust Reduction

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

Always use suitable breathing protection. The regulations on the materials being machined that apply in the country of use must be observed.

Requirements for the Dust Extractor		
Recommended hose nominal diameter	mm	**28**
Required vacuum pressure[A)]	mbar hPa	≥ **140** ≥ **140**
Required flow rate[A)]	l/s m³/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

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

Operation

▶ **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.

Starting Operation

▶ **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.

Switching On and Off

– To **start** the power tool, press and hold the on/off switch **(6)**.
– Press the lock 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 with the lock button **(5)**, briefly press the on/off switch **(6)** and then release it.

At low temperatures, the power tool will take a certain amount of time to reach its full impact performance. You can

shorten this warm-up time by tapping the power tool's inserted application tool on the ground once.

Changing the chiselling position (Vario-Lock) (see figure D)

You can lock the chisel in **12** different positions, allowing you to select the optimum working position for each task.

– Insert the chisel into the tool holder.
– Push the chisel adjustment ring **(3)** forwards and turn the chisel to the required position with the chisel adjustment ring **(3)**.
– Release the chisel adjustment ring **(3)** and turn the chisel until it audibly clicks into place.

Working Advice

For the highest possible impact damping, work only with moderate pressure.

Sharpening Chisels

Only sharp chiselling tools will produce good results, therefore sharpen your chiselling tools in good time before use. This will ensure a long service life for the tools and good work results.

Re-sharpening

Grind chiselling tools against sanding discs, e.g. aluminium oxide, under a steady stream of water. Make sure that the cutting edges show no annealing colours; this will impair the hardness of the chiselling tools.
To **forge** a chisel, heat it to 850–1050 °C (pale red to yellow).
To **harden** a chisel, heat it to approx. 900 °C and quench in oil. Then, leave it in an oven for approx. one hour at 320 °C (annealing colour: pale blue).

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 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.

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

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.

Lubricating the Power Tool (see figure E)

The power tool is lubricated with grease and is ready for immediate use.

The lubricating grease must be changed every time the carbon brushes are replaced and may only be changed during maintenance carried out by an after-sales service centre authorised to work with **Bosch** power tools.

The lubricating grease specified by **Bosch** must be used.

If you do not use Bosch lubricating grease or improper maintenance is carried out on your power tool, your warranty may be compromised.

If, however, under certain circumstances, you need to change the lubricating grease yourself, proceed as follows:

– Switch the power tool on to warm up for a few minutes. Switch the power tool off and pull the mains plug out of the plug socket.
– Open the lubricating grease cover **(4)** with a **Bosch** hook spanner **(10)** (not supplied).

The old lubricating grease must be removed before new lubricating grease is poured in.

– Remove the old lubricating grease and fill with approx. 30 g (1 oz) of new lubricating grease.
Only fill with the specified amount of lubricating grease to ensure that the power tool can be used safely and without causing damage.
– Put the lubricating grease cover **(4)** back on and **carefully** retighten it with a **Bosch** hook spanner **(10)**.

After-Sales Service and Application Service

Great Britain
Tel. Service: (0344) 7360109

GB Importer:
Robert Bosch Ltd.
Broadwater Park
North Orbital Road
Uxbridge
UB9 5HJ

You can find the link to our service addresses and warranty conditions on the last page.

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

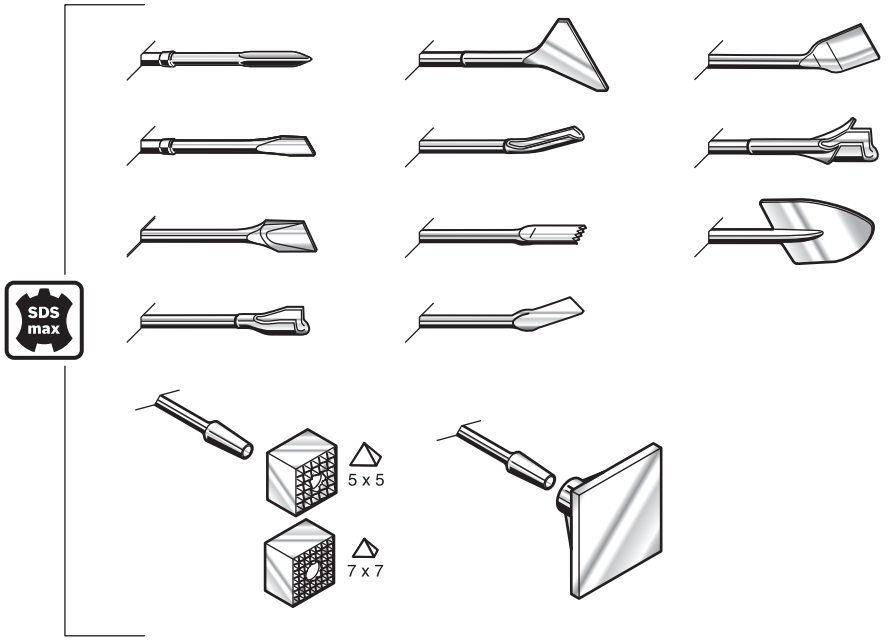
Disposal

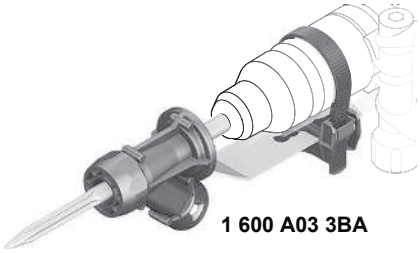
The power tool, accessories and packaging should be recycled in an environmentally friendly manner.

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.





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Servicekontakte
Service Contacts
Contacts de Service
Contactos de Servicio

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

Garantiebedingungen
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