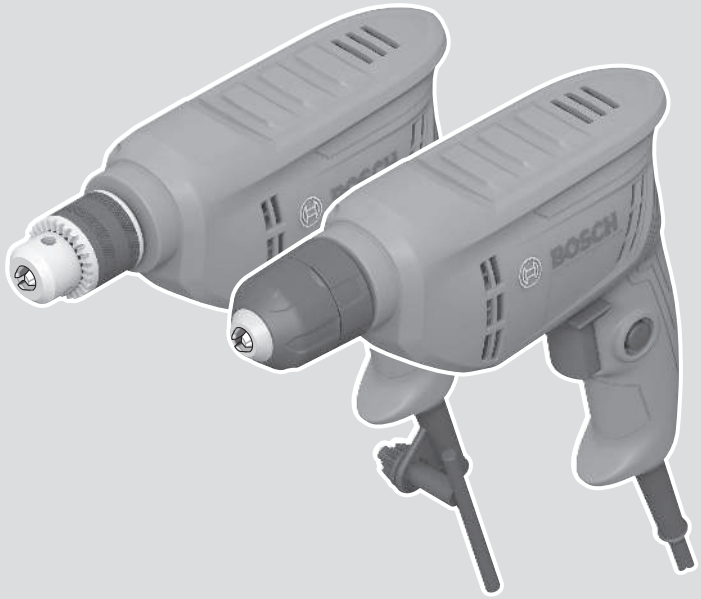
BOSCH

Professional

GBM 400



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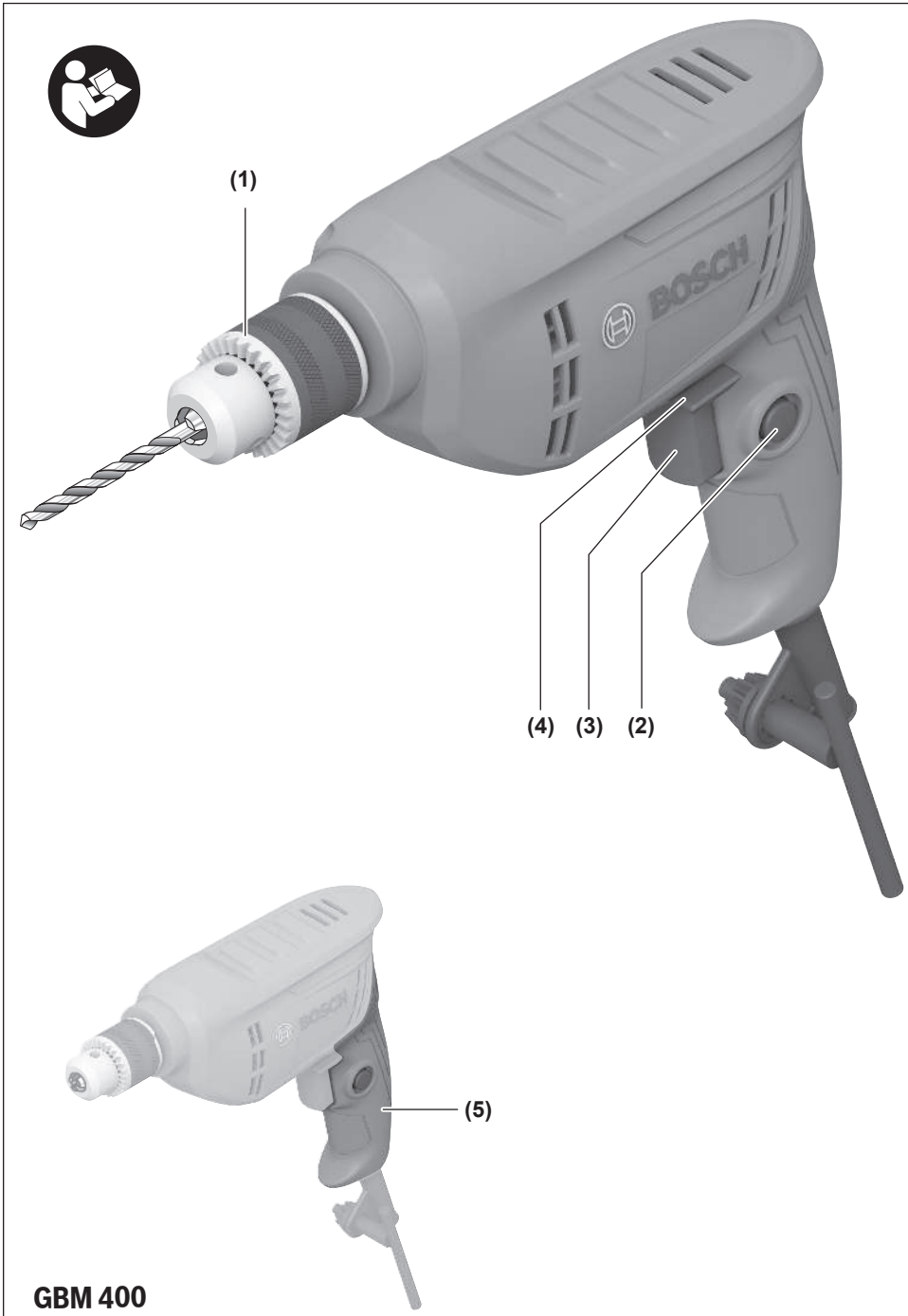
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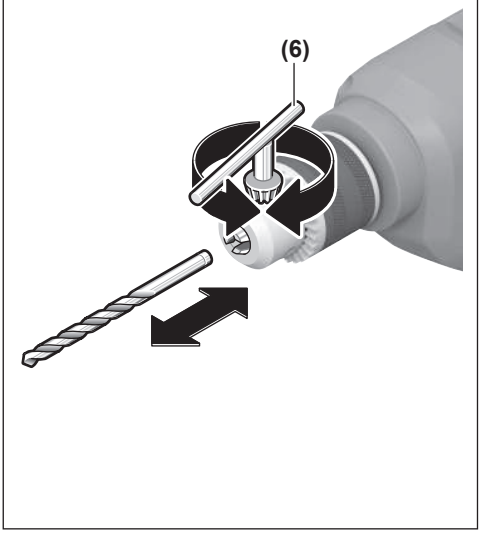
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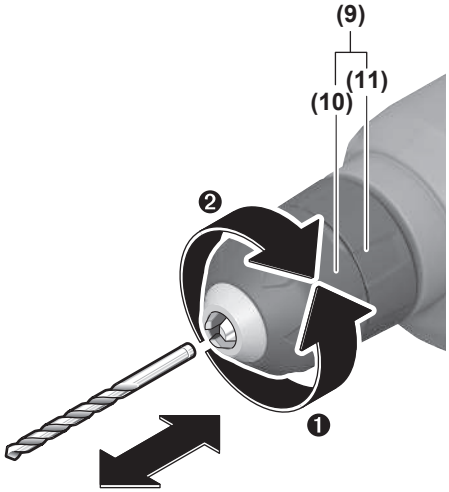



(1)
(4)
(3)
(2)
(5)
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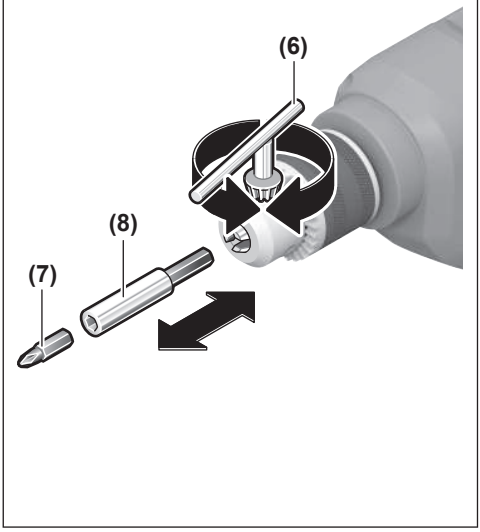
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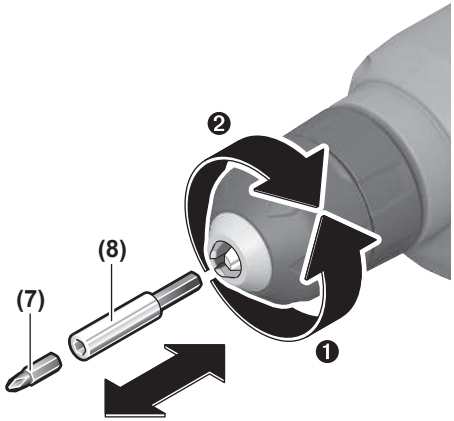
B



C



D



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.

Safety Warnings for Drills

Safety instructions for all operations

- ▶ **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.

Safety instructions when using long drill bits

- ▶ **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- ▶ **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage or loss of control, resulting in personal injury.

Additional safety warnings

- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Switch the power tool off immediately if the application tool becomes blocked. Be prepared for high torque reactions which cause kickback.** The application tool becomes blocked when it becomes jammed in the workpiece or when the power tool becomes overloaded.
- ▶ **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.

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 suitable for drilling in wood, metal, ceramic and plastic. Power tools with electronic control and clockwise/anti-clockwise rotation are also suitable for screwdriving.

Product Features

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

(1) Keyed chuck
(2) Lock-on button for on/off switch
(3) On/off switch
(4) Rotational direction switch
(5) Handle
(6) Chuck key
(7) Screwdriver bit[a)]
(8) Universal bit holder[a)]
(9) Keyless chuck
(10) Front sleeve
(11) Rear sleeve

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

Technical Data

Drill		GBM 400
Article number		**3 601 AC1 0..**
Rated power input	W	400
Power output	W	180
Rated no-load speed n_0 [A)]	min^{-1}	0–2800
Speed control		●
Clockwise/anticlockwise rotation		●
Keyed chuck		●
Keyless chuck		●
Chuck capacity		
– Keyed chuck	mm	1–10
– Keyless chuck	mm	0.8–10

Drill		GBM 400
Max. drilling diameter		
– Steel	mm	10
– Wood	mm	20
– Aluminium	mm	13
Weight[B)]	kg	1.3
Protection class		⧈ / II

A) Rated no-load speed for the selection of appropriate accessory in accordance with IEC 62841-2-1. The actual speed is lower for safety reasons.

B) 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 62841-2-1**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **88** dB(A); sound power level **96** dB(A). Uncertainty K = **5** dB.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_F (repeated shock vibrations) and uncertainty K determined according to **EN 62841-2-1**:

Drilling in metal: $a_{h,D}$ = **1.4** m/s^2 (K = **1.5** m/s^2), $p_{F,D}$ = **60** m/s^2, (K = **17** m/s^2)

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and 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.**

▶ **Wear protective gloves when changing tools.** The application tool and the drill chuck can become hot when used for long periods.

Changing the tool

Keyed chuck (see figure A)

Open the keyed chuck **(1)** by turning it until the tool can be inserted. Insert the tool.

Insert the drill chuck key **(6)** into the corresponding holes of the keyed chuck **(1)** and clamp the tool evenly.

Keyless chuck (see figure B)

Hold the rear sleeve **(11)** of the keyless chuck **(9)** firmly and turn the front sleeve **(10)** in the rotational direction ❶ until the tool can be inserted. Insert the tool.

Hold the rear sleeve **(11)** of the keyless chuck **(9)** and firmly tighten the front sleeve **(10)** by hand in the rotational direction ❷ until it stops clicking. This will automatically lock the drill chuck.

The lock will disengage again if you turn the front sleeve **(10)** in the opposite direction to remove the tool.

Screwdriving tools (see figures C–D)

You should always use a universal bit holder **(8)** when using screwdriver bits **(7)**. Only use screwdriver bits that fit the screw head.

For screwdriving, make sure the "drilling/impact drilling" selector switch is always set to the "drilling" symbol.

Changing the drill chuck

▶ If your power tool does not have a drill spindle locking mechanism, you must have the drill chuck changed by an authorised after-sales service centre for **Bosch** power tools.

The drill chuck must be tightened using a tightening torque of approx. 25–30 Nm.

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.

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

Requirements for the Dust Extractor		
Recommended hose nominal diameter	mm	**35**
Required vacuum pressure[A)]	mbar hPa	≥ **230** ≥ **230**
Required flow rate[A)]	l/s m^3/h	≥ **36** ≥ **129.6**

Requirements for the Dust Extractor	
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

- ▶ **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.

Setting the rotational direction

- ▶ **Only operate the rotational direction switch (4) when the power tool is not in use. Otherwise it may become damaged.**

The rotational direction switch **(4)** is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch **(3)** is being pressed.

Right rotation: To drill and to drive in screws, press the rotational direction switch **(4)** through to the left stop.

Left Rotation: To loosen and unscrew screws and nuts, press the rotational direction switch **(4)** through to the right stop.

Switching on/off

To **start** the power tool, press and hold the on/off switch **(3)**.

Press the lock-on button **(2)** to **lock** the on/off switch **(3)** in this position.

To **switch off** the power tool, release the on/off switch **(3)**; or, if the switch is locked with the lock-on button **(2)**, briefly press the on/off switch **(3)** and then release it.

Adjusting the speed

You can adjust the speed of the power tool when it is on by pressing in the on/off switch **(3)** to varying extents.

A light pressure on the on/off switch **(3)** results in a low rotational speed. Increased pressure on the switch causes an increase in speed.

Practical advice

- ▶ **Pull the plug out of the socket before carrying out any work on the power tool.**
- ▶ **Only apply the power tool to the screw/nut when the tool is switched off.** Rotating tool inserts can slip off.

Before screwing larger, longer screws into hard materials, it is advisable to pre-drill a pilot hole with the core diameter of the thread to approx. 2/3 of the screw length.

When drilling into metal, only use sharpened HSS drills (HSS = high-speed steel) which are in perfect condition. The **Bosch** accessory range guarantees appropriate quality.

After working at a low speed for an extended period, you should operate the power tool at the maximum speed for approximately three minutes without load to cool it down.

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.

After-Sales Service and Application Service

Australia
Phone: (01300) 307044

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.



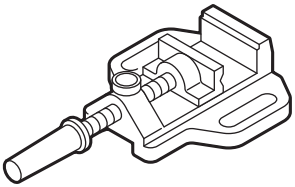
Do not dispose of power tools along with household waste.



1 608 571 079



1 619 PB8 910



2 608 030 053 (MS 65)
2 608 030 054 (MS 75)
2 608 030 055 (MS 80)

Servicekontakte
Service Contacts
Contacts de Service
Contactos de Servicio
Контакты сервисных центров

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

Garantiebedingungen
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Условия гарантии

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