BOSCH

Professional

GBM 1600 RE



Robert Bosch Power Tools GmbH
70538 Stuttgart
GERMANY

www.bosch-pt.com

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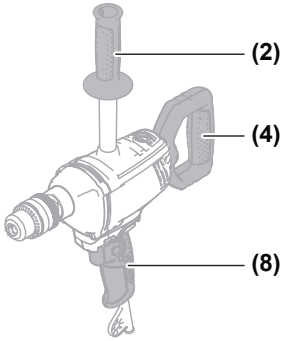
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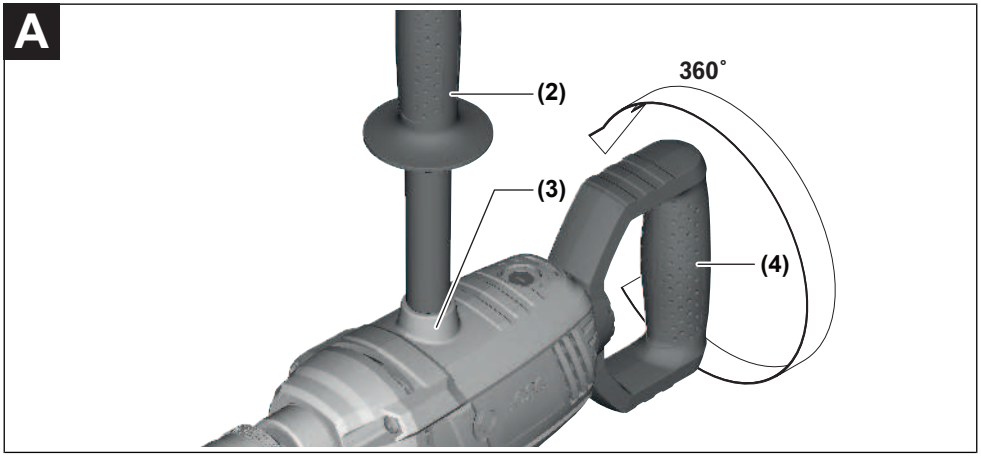
English ..... Page 5

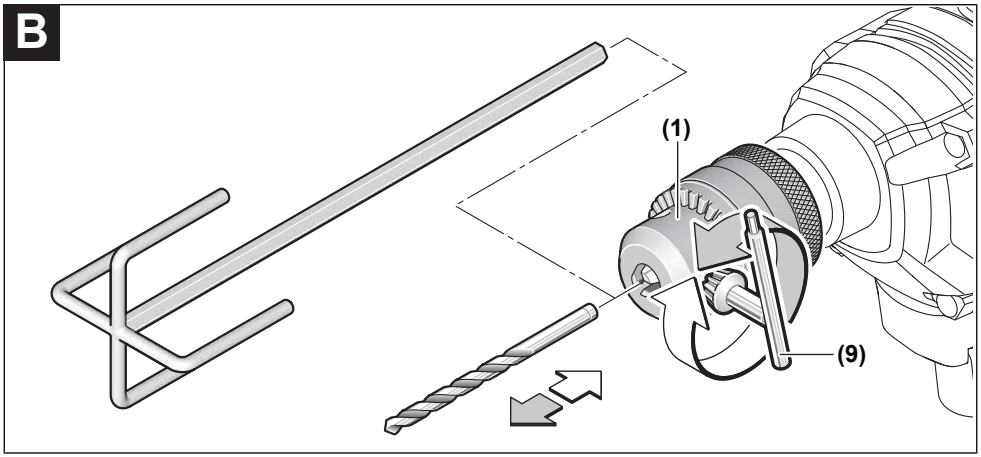
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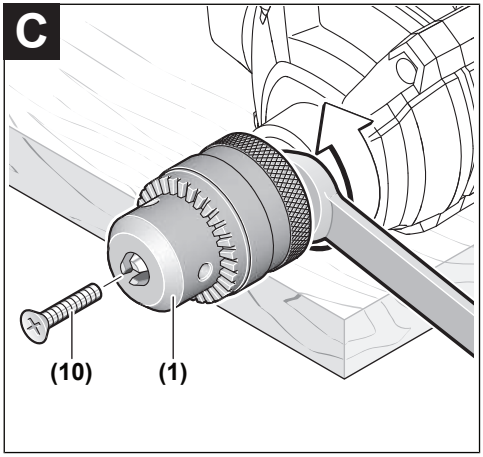


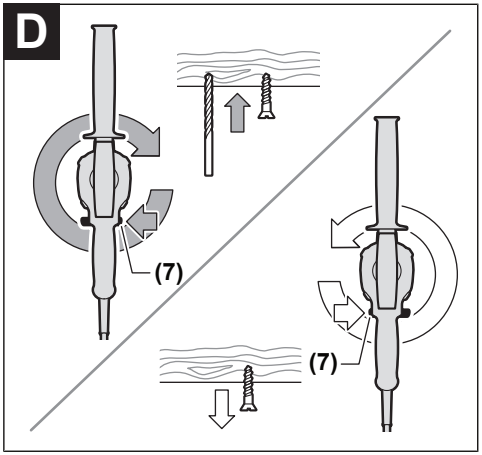
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English

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.

Safety Warnings for Drills

Safety instructions for all operations

- ▶ **Use the auxiliary handle(s).** 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.

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.
- ▶ **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.

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.

The power tool is suitable for stirring construction materials in powder form, such as mortar, plaster, adhesive and paints and varnishes which do not contain solvents, as well as similar substances.

Product Features

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

- **(1)** Keyed chuck[a)]
- **(2)** Auxiliary handle (insulated gripping surface)
- **(3)** Thread for auxiliary handle
- **(4)** Carrying handle (insulated gripping surface)
- **(5)** Lock-on button for on/off switch
- **(6)** On/off switch
- **(7)** Rotational direction switch
- **(8)** Handle (insulated gripping surface)
- **(9)** Chuck key[a)]
- **(10)** Securing screw for keyed chuck

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

Technical Data

Europe

Drill		GBM 1600 RE
Article number		**3 601 AB0 0..**
Rated power input	W	850

Drill		GBM 1600 RE
No-load speed	min^{-1}	630
Rated torque	Nm	11
Spindle collar diameter	mm	43
Max. drilling diameter		
– Steel	mm	16
– Wood	mm	40
– Aluminium	mm	16
Chuck capacity	mm	3–16
Clockwise/anticlockwise rotation		●
Maximum stirrer paddle diameter	mm	160
Weight[A)]	kg	3.0
Protection class		⧈ / II

A) 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.

The specifications apply to the specified rated voltages. 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**:

Auxiliary handle: $a_{h,D}$ = **1.2** m/s^2 (K = **1.5** m/s^2) $p_{F,D}$ = **77** m/s^2, (K = **8** 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 can be used to compare power tools. They can 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 can differ. This can 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 can 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 (2)**.

Screw the auxiliary handle **(2)** into the thread **(3)** on the motor housing.

Carrying handle (see figure A)

The carrying handle **(4)** can be continuously rotated through 360°.

Changing the Tool

▶ **Wear protective gloves when changing tools.** The drill chuck may heat up significantly when it is used for long periods.

Keyed chuck with automatic lock (see figure B)

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

Insert the tool. Insert the drill chuck key **(9)** into the corresponding holes of the keyed chuck **(1)** and clamp the tool evenly.

Changing the drill chuck (see figure C)

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

Removing the securing screw

A securing screw **(10)** protects the keyed chuck **(1)** from being accidentally separated from the drill spindle.

Open the keyed chuck **(1)** fully and unscrew the securing screw **(10)** clockwise. **Note that the securing screw has a left-hand thread.**

When the securing screw **(10)** is securely seated, place a screwdriver on the screw head and undo the securing screw by hitting the handle of the screwdriver.

Removing the drill chuck

To remove the drill chuck **(1)**, place an open-ended spanner (SW 17) onto the nut on the drive spindle.

Hold the keyed chuck firmly in one hand and use your other hand to turn the open-ended spanner anticlockwise until the drill chuck comes away from the drill spindle cone.

Installing the drill chuck (see figure B)

▶ **Keep the cone of the drill spindle and the hole of the drill chuck free of grease and dirt.**

To install the keyed chuck **(1)**, turn the nut on the drive spindle clockwise as far as it will go.

Push the keyed chuck onto the drive spindle until it is securely seated, but do not use force when doing so.

Use a rubber hammer to lightly hit the front side of the keyed chuck **(1)** in order to ensure that the keyed chuck is securely seated. When doing so, ensure that the clamping jaws of the keyed chuck do not protrude to avoid damaging the chuck.

Installing the securing screw

Screw the securing screw **(10)** anticlockwise into the open keyed chuck. Always use a new securing screw because a securing adhesive substance is applied on its thread and is rendered ineffective after repeated use.

Dust Reduction

Do not carry out drilling 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**
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

Starting 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.
- ▶ **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.

Setting the rotational direction (see figure D)

The rotational direction switch **(7)** is used to change the rotational direction of the power tool. However, this is not possible while the on/off switch **(6)** is being pressed.

Right rotation: For drilling or stirring, push the rotational direction switch **(7)** all the way to the left.

Left rotation: For loosening or stirring, push the rotational direction switch **(7)** all the way to the right.

Switching on/off

To **start** the power tool, press and hold 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 with the lock-on button **(5)**, briefly press the on/off switch **(6)** 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 **(6)** to varying extents.

A light pressure on the on/off switch **(6)** results in a low rotational speed. Increased pressure on the switch causes an increase in speed.

Work instructions for drilling

Use a drill emulsion or cutting oil for cooling and lubrication in order to prevent the drill bit from overheating or jamming.

For drilling diameters > 10 mm, pre-drill with a small drilling diameter. This allows you to reduce the contact pressure and puts less strain on the power tool.

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.

The machine vice, which is available as an accessory, enables the workpiece to be securely clamped. This prevents the workpiece from turning and any accidents this could cause.

Work instructions for stirring

- ▶ **Do not use the power tool in a stand.**
- ▶ **Avoid splashing the material**. Otherwise you could slip and lose control of the power tool.
- ▶ **Avoid continuously operating the power tool at reduced speed.** Otherwise the motor of the power tool could overheat.

To release the lock-on button **(5)**, briefly press the on/off switch **(6)** and then let it go. This will prevent the power tool from restarting unintentionally (risk of injury).

The stirrer paddle selected depends on the material that is to be stirred.

For materials with low viscosity, e.g. emulsion paint, varnishes, adhesive, grouting compound or cement slurry, use a stirrer paddle with a left-hand spiral. The material is moved from the top downwards in a stirrer paddle with a left-hand spiral. The stirrer paddle is pushed upwards. Materials with low viscosity are mixed in a way which minimises splattering.

For materials with high viscosity, e.g. ready-mixed plaster, concrete, cement, screed, filler or epoxy resin, use a stirrer paddle with right-hand spiral. The material is moved from the bottom upwards in a stirrer paddle with a right-hand spiral. The stirrer paddle works its way into the mixture. Materials with high viscosity are mixed thoroughly.

Move the power tool up and down when working. Clean the stirrer paddle after use.

- ▶ **Store the power tool in a safe place.** Ensure that it cannot fall over. The power tool may become damaged if this happens.

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

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

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.



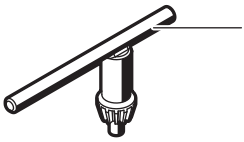
Do not dispose of power tools along with household waste.

Only for EU countries and United Kingdom:

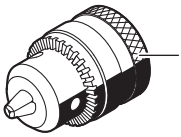
Electrical and electronic equipment that is no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems.Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.

Manufacturer's warranty

https://www.bosch-pt.com/guarantee/202601



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1 619 PA3 304

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

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Garantiebedingungen
Guarantee Conditions
Conditions de Garantie
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Условия гарантии

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