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Bosch Professional GBM 1600 RE

Bosch Professional GBM 1600 RE Rotary Drill and Mixer Instruction Manual

Model: GBM 1600 RE

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective operation, maintenance, and care of your Bosch Professional GBM 1600 RE Rotary Drill and Mixer. Please read this manual thoroughly before using the tool and keep it for future reference. Understanding and following these instructions will help prevent accidents and ensure optimal performance of your tool.

2. GENERAL SAFETY INSTRUCTIONS

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.

2.1 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.

2.2 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.

2.3 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.
- 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, picking up or carrying the tool.
- 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 jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

3. PRODUCT OVERVIEW AND COMPONENTS

The Bosch Professional GBM 1600 RE is a powerful and durable 2-in-1 mixer and rotary drill designed for heavy-duty use. It features an 850W motor and high torque output for reliable performance in drilling and mixing applications.

3.1 Included Components

The standard package for the GBM 1600 RE includes the following items:

- 1 x Bosch Professional GBM 1600 RE Heavy Duty Mixer & Rotary Drill
- 1 x Auxiliary Handle
- 1 x 360° Rotating D-Handle
- 1 x Drill Attachment (Chuck Key if applicable, though not explicitly stated for this model, it's common for keyed chucks)



Image: The Bosch GBM 1600 RE Rotary Drill and Mixer with its primary accessories.

4. SETUP AND ASSEMBLY

4.1 Attaching the Auxiliary Handle

The auxiliary handle provides additional control and stability during operation. It can be adjusted to various positions for optimal

comfort and leverage.

1. Unscrew the auxiliary handle counter-clockwise until it can be slid over the chuck collar.
2. Position the handle to your desired angle.
3. Tighten the handle by screwing it clockwise until it is securely fastened.

4.2 Attaching the 360° Rotating D-Handle

The D-handle offers enhanced grip and control, especially for mixing tasks or when high torque is applied.

1. Align the D-handle with the mounting points on the rear of the tool.
2. Secure the D-handle using the provided fasteners (if any, typically screws or a clamping mechanism). Ensure it is firmly attached.
3. The D-handle can be rotated 360 degrees to suit different working positions. Loosen the fastening mechanism, adjust, and re-tighten.

4.3 Installing Drill Bits or Mixer Paddles

The GBM 1600 RE is equipped with a chuck that can accommodate drill bits up to 16mm (0.65 inches) or mixer paddles.

1. Ensure the tool is unplugged from the power source before changing accessories.
2. Open the chuck jaws by rotating the chuck key (if applicable) or by hand.
3. Insert the drill bit or mixer paddle shank fully into the chuck.
4. Tighten the chuck jaws firmly using the chuck key or by hand. For keyed chucks, ensure all three holes are tightened for maximum grip.
5. Verify that the accessory is securely fastened before connecting to power.

5. OPERATION

Always wear appropriate personal protective equipment, including eye protection and hearing protection, during operation.

5.1 Powering On and Off

- To start the tool, press the ON/OFF switch.
- To stop the tool, release the ON/OFF switch.
- For continuous operation, press the ON/OFF switch and then press the lock-on button (special feature: Lock Speed Button). To release, press the ON/OFF switch again.

5.2 Speed Control

The GBM 1600 RE features a low rotational speed of up to 630 RPM, making it suitable for tasks requiring high torque, such as drilling in steel or mixing viscous materials.

- The tool's speed is typically controlled by the pressure applied to the ON/OFF switch (variable speed trigger).
- For consistent speed, use the lock-on button once the desired speed is reached.

5.3 Drilling Applications

This tool is suitable for drilling in various materials including wood, metal, and plastic.



Image: Drilling into a metal stud using the Bosch GBM 1600 RE.

- Select the appropriate drill bit for the material and desired hole size.
- Mark the drilling point.
- Hold the tool firmly with both hands, utilizing the auxiliary and D-handles for stability.
- Start drilling at a low speed to prevent the bit from wandering, then increase speed as needed.
- Apply steady, even pressure. Do not force the tool.
- For deep holes, periodically withdraw the drill bit to clear chips and allow the bit to cool.



Image: Drilling into a wooden beam with the Bosch GBM 1600 RE.

5.4 Mixing Applications

The high torque and low RPM of the GBM 1600 RE make it ideal for mixing paint, mortar, plaster, and other viscous materials.



Image: Mixing material in a bucket using the Bosch GBM 1600 RE.

- Attach an appropriate mixer paddle securely into the chuck.
- Place the material to be mixed in a sturdy bucket or container.
- Immerse the mixer paddle into the material before starting the tool to prevent splashing.
- Start the tool at a low speed and gradually increase as needed.
- Move the mixer paddle through the material to ensure thorough mixing.
- Maintain a firm grip on the tool, using both the auxiliary and D-handles.
- Always switch off the tool before removing the mixer paddle from the material.

6. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and safe operation of your Bosch Professional GBM 1600 RE.

6.1 Cleaning

- Always unplug the tool before cleaning.
- Keep the ventilation openings clean to prevent motor overheating. Use a soft brush or compressed air.
- Clean the tool casing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove any debris or material residue from the chuck and around the spindle.

6.2 Storage

- Store the tool in a dry, secure place out of reach of children.
- Protect the power cord from damage during storage.

6.3 Carbon Brushes

The carbon brushes are wear parts. Have them checked and replaced by an authorized Bosch service center when necessary to ensure optimal motor performance and tool longevity.

7. TROUBLESHOOTING

Before attempting any troubleshooting, ensure the tool is unplugged from the power source.

Problem	Possible Cause	Solution
Tool does not start	No power supply Faulty power cord/plug Defective switch	Check power outlet and circuit breaker Inspect cord and plug for damage; replace if necessary Contact an authorized service center
Loss of power during operation	Overload Worn carbon brushes	Reduce load on the tool Have carbon brushes checked/replaced by service center
Excessive sparking at motor vents	Worn carbon brushes Dirty commutator	Have carbon brushes checked/replaced by service center Contact an authorized service center for inspection
Chuck not holding bit securely	Improper tightening Damaged chuck jaws	Ensure chuck is tightened firmly using all three key holes (if applicable) Replace chuck if jaws are damaged

For issues not listed here or if solutions do not resolve the problem, please contact an authorized Bosch Professional service center.

8. TECHNICAL SPECIFICATIONS

The following are the key technical specifications for the Bosch Professional GBM 1600 RE Rotary Drill and Mixer:

Feature	Specification
Model	GBM 1600 RE
Power Source	Corded Electric
Rated Input Power	850 Watts
Voltage	220 Volts
Amperage	16 Amps
No-Load Speed (1st Gear)	0 - 630 RPM
Rated Torque	11 Newton Meters
Chuck Capacity (Min./Max.)	3 - 16 mm (0.12 - 0.65 Inches)
Drill Type	Rotary Drill / Mixer
Special Feature	Lock Speed Button
Material	Plastic (housing)
Item Dimensions (LxWxH)	41 x 31 x 12 Centimeters
Net Quantity	1 Count
Country of Origin	India

TECHNICAL DATA

NO-LOAD SPEED, 1ST GEAR 0 - 630 rpm

RATED INPUT POWER 850 W

RATED TORQUE 11.0 Nm

CHUCK CAPACITY, MIN./MAX. 3 - 16 mm



Image: Visual representation of the Bosch GBM 1600 RE with its key technical specifications.

9. WARRANTY AND CUSTOMER SUPPORT

9.1 Warranty Information

The Bosch Professional GBM 1600 RE comes with a **1-year warranty** from the date of invoice. To claim warranty service, please provide a copy of your purchase invoice.

For extended warranty benefits and rewards, you may register your product through the Bosch BeConnected app. This app also provides genuine product information, loyalty benefits, and a service locator.

9.2 Customer Service

For any queries, technical assistance, or service requests, please contact Bosch Power Tools India Customer Service:

- **Toll-Free Number:** 18004258665
- **Manufacturer/Packer/Importer Address:** Bosch Ltd., Post Box No: 3000, Hosur Road, Adugodi, Bangalore - 560030, India.

You can also visit the official [Bosch Professional store on Amazon](#) for more information and to locate authorized service centers.

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