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Bosch GSB 450

BOSCH GSB 450 Professional Impact Drill User Manual

Model: GSB 450

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your BOSCH GSB 450 Professional Impact Drill. Please read these instructions carefully before using the tool and keep them for future reference.



Image 1: BOSCH GSB 450 Professional Impact Drill. This image shows the complete drill unit, highlighting its blue plastic

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep your 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. 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.
- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Wear hearing protection when operating noisy power tools. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, contact your retailer.

- 1-Piece BOSCH GSB 450 Professional Impact Drill
- User Manual (this document)

4. PRODUCT FEATURES

The BOSCH GSB 450 Professional Impact Drill is designed for versatile drilling applications with a focus on performance and user comfort.

- **Powerful Motor:** Equipped with a 450W rated input power and 250W output, providing efficient drilling.
- **Compact and Lightweight:** Weighing just 1.5 kg, it is designed for reduced fatigue during extended use and for working in tight or overhead spaces.
- **Variable Speed Control:** Allows for precise control over drilling speed, adapting to different materials and tasks.
- **Forward/Reverse Operation:** Features a reversible brush plate for easy switching between forward and reverse drilling, useful for driving and removing screws.
- **Impact Function:** Suitable for drilling into masonry and other hard materials.
- **Lock Speed Button:** For continuous operation without holding the trigger.



Image 2: Close-up view of the BOSCH GSB 450 Impact Drill, highlighting the chuck, branding, and ventilation slots on the blue plastic housing.

5. SETUP

1. **Unpacking:** Carefully remove the drill and all accessories from the packaging. Inspect for any damage.
2. **Selecting a Drill Bit:** Choose the appropriate drill bit for your material and desired hole size. Ensure the drill bit shank fits securely into the chuck.
3. **Inserting the Drill Bit:**
 - Ensure the drill is unplugged from the power source.
 - Open the chuck jaws by turning the chuck key (if applicable) or by hand for keyless chucks.
 - Insert the drill bit into the chuck as far as it will go, ensuring it is centered.
 - Tighten the chuck jaws firmly around the drill bit. For keyed chucks, use the chuck key to ensure a secure grip.
4. **Power Connection:** Plug the drill into a suitable 220V AC power outlet.

6. OPERATING INSTRUCTIONS

Familiarize yourself with the controls before beginning any drilling task.

1. **Starting and Stopping:**
 - To start the drill, press the trigger switch.
 - To stop the drill, release the trigger switch.
2. **Variable Speed Control:** The trigger switch allows for variable speed. Pressing the trigger further

increases the speed.

3. **Lock-on Button:** For continuous operation, press the trigger switch fully and then press the lock-on button. To release, press the trigger switch again.
4. **Forward/Reverse Switch:** Located near the trigger, this switch changes the direction of rotation. Ensure the drill has come to a complete stop before changing direction.
5. **Impact/Drill Mode Selector:** A switch or knob on the side of the drill allows you to select between standard rotary drilling and impact drilling. Use impact mode for masonry and hard materials, and rotary mode for wood, metal, and plastics.
6. **Drilling Technique:**
 - Mark the drilling spot accurately.
 - Hold the drill firmly with both hands if possible.
 - 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 drill.
 - Withdraw the drill bit periodically to clear debris, especially when drilling deep holes.

Your browser does not support the video tag.

Video 1: Demonstration of the BOSCH GSB 450 Impact Drill's features, including its durable plastic construction, 450-watt motor, variable speed control, and forward/reverse operation. This video provides a visual guide to the drill's basic functions and ergonomic design.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drill.

- **Cleaning:** After each use, clean the ventilation openings and the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper grip on drill bits.
- **Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. Replace damaged cords immediately.
- **Storage:** Store the drill in a dry, secure place, out of reach of children.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start.	No power supply; faulty switch; damaged cord.	Check power outlet and cord. If problem persists, contact service.
Drill bit slips in chuck.	Chuck not tightened sufficiently; worn chuck jaws; incorrect drill bit shank.	Ensure chuck is tightened firmly. Use correct drill bit. Clean chuck jaws.
Excessive vibration or noise.	Bent drill bit; loose components; internal damage.	Replace bent drill bit. Check for loose parts. If severe, seek professional service.
Overheating.	Overloading the tool; blocked ventilation slots.	Reduce load. Clear ventilation slots. Allow tool to cool down.

9. SPECIFICATIONS

Brand	Bosch
Model Number	GSB 450
Power Source	AC
Maximum Power	450 Watts
Voltage	220 Volts
Maximum Rotational Speed	22000 RPM
Speed	2800 RPM
Maximum Chuck Size	4 Inches
Drill Type	Impact Driver
Drilling Capacity Wood	20 Millimetres
Drilling Capacity Metal	10 Millimetres
Item Weight	1.5 Kilograms
Product Dimensions	20L x 20W x 20H Centimeters
Material	Plastic
Color	Blue
Special Feature	Lock Speed Button

10. WARRANTY AND SUPPORT

The BOSCH GSB 450 Professional Impact Drill comes with a 6-month warranty from the date of purchase.

- **Warranty Coverage:** This warranty covers manufacturing defects and material faults under normal use. It does not cover damage caused by misuse, abuse, unauthorized repairs, or normal wear and tear.
- **Extended Warranty:** An optional 1-Year Extended Warranty by Onsitego is available for purchase.
- **Customer Support:** For warranty claims, technical assistance, or service, please contact Bosch customer care.
- **Manufacturer Contact:** Bosch Limited, Post box No. 3000, Hosur Road Adugodi Bangalore-560030, India. Customer care #18004258665.