

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Bosch](#) /
- › [Bosch PSB 650 RE Impact Drill User Manual](#)

Bosch 0603128070

Bosch PSB 650 RE Impact Drill User Manual

Model: 0603128070

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Bosch PSB 650 RE Impact Drill. Please read this manual thoroughly before using the tool for the first time and keep it for future reference. This powerful 650W impact drill is designed for drilling in wood, metal, ceramics, and plastic, as well as for impact drilling in brick, concrete, and stone.



Figure 1: Bosch PSB 650 RE Impact Drill, showing its main components.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent electric shock, fire, and serious 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 hearing protection when operating impact drills. Wear a dust mask if drilling is dusty. Dress properly; avoid loose clothing or jewelry.
- **Power 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.
- **Kickback and Related Warnings:** Always hold the tool firmly with both hands and position your body and arm to allow you to resist kickback forces.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your Bosch PSB 650 RE Impact Drill:

- **Keyless Chuck:** For quick and easy bit changes.
- **Auxiliary Handle:** Provides additional grip and control, especially during impact drilling.
- **Depth Stop:** Allows for precise control over drilling depth.
- **Speed Preselection Wheel:** Adjusts the maximum rotational speed.
- **Trigger Switch:** Activates the drill and controls the speed.
- **Forward/Reverse Switch:** Changes the direction of rotation.
- **Drilling Mode Selector:** Switches between drilling and impact drilling modes.



Figure 2: Close-up view of the ergonomic grip and trigger switch.

4. SETUP

Before operating the drill, ensure it is properly set up.

4.1 Attaching the Auxiliary Handle and Depth Stop

1. Loosen the auxiliary handle by turning it counter-clockwise.
2. Slide the auxiliary handle onto the drill collar to the desired position.
3. Insert the depth stop into the hole on the auxiliary handle.
4. Tighten the auxiliary handle by turning it clockwise until secure.

4.2 Inserting Drill Bits

1. Ensure the drill is unplugged from the power source.
2. Twist the front part of the keyless chuck counter-clockwise to open the jaws.
3. Insert the drill bit fully into the chuck.
4. Twist the front part of the keyless chuck clockwise firmly to secure the bit. The Bosch Press+Lock feature allows for easy tool changes by locking the drill spindle with a push of a button.



Figure 3: Inserting a drill bit into the keyless chuck.

5. OPERATING THE DRILL

The Bosch PSB 650 RE offers versatile operation for various materials.

5.1 Powering On/Off and Speed Control

- Plug the drill into a suitable 220V power outlet.
- To start the drill, press the trigger switch. The speed is variable depending on how far you press the trigger.
- Use the speed preselection wheel to set the maximum desired speed for your application. This allows for material-specific working and precise control, especially when starting to drill on smooth surfaces or driving screws.
- For continuous operation, press the lock-on button while the trigger is pressed. To release, press the trigger again.
- To turn off, release the trigger switch.

5.2 Forward/Reverse Operation

The forward/reverse switch is located above the trigger. Push it to the left for forward rotation (drilling/screwdriving) and to the right for reverse rotation (removing screws or freeing jammed bits).

5.3 Selecting Drilling Mode

Use the red selector switch on top of the drill to choose between:

- **Drilling Mode (Drill Bit Symbol):** For drilling in wood, metal, plastic, and ceramics.
- **Impact Drilling Mode (Hammer Symbol):** For drilling in concrete, masonry, and stone.

5.4 Drilling Applications

- **Drilling in Concrete/Masonry:** Use impact drilling mode and appropriate masonry drill bits. The maximum drilling diameter in concrete is 14 mm.
- **Drilling in Steel:** Use drilling mode and HSS drill bits. The maximum drilling diameter in steel is 12 mm.
- **Drilling in Wood:** Use drilling mode and wood drill bits. The maximum drilling diameter in wood is 30 mm.



Figure 4: User demonstrating drilling into a wall.



Figure 5: User drilling into a tiled surface.



Figure 6: User drilling into a wooden ceiling.

6. MAINTENANCE

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

- **Cleaning:** Always unplug the tool before cleaning. Keep the ventilation slots clean to prevent motor overheating. Use a soft brush or compressed air to clean dust and debris from the tool. The dust extraction port can be used with an optional accessory for cleaner operation.
- **Chuck Maintenance:** Periodically clean the keyless chuck to prevent grit from embedding in the mechanism, which can affect its grip.
- **Storage:** Store the drill in its original plastic case in a dry, secure place, out of reach of children. The new cable guide with hanging hook also allows for practical storage.



Figure 7: The durable plastic carrying case for convenient storage and transport.

7. TROUBLESHOOTING

Here are some common issues and their solutions:

Problem	Possible Cause	Solution
Drill does not start	No power supply; Faulty power cord/plug	Check power outlet; Inspect cord for damage; Consult qualified electrician if needed
Reduced power/speed	Incorrect speed setting; Overload; Worn carbon brushes (unlikely for new tool)	Adjust speed preselection; Reduce pressure; Contact service center
Drill bit slips in chuck	Chuck not tightened sufficiently; Dirty chuck jaws	Retighten chuck firmly; Clean chuck jaws
Excessive vibration/noise	Damaged drill bit; Loose components	Replace drill bit; Check for loose parts; Contact service center

8. SPECIFICATIONS

Key technical data for the Bosch PSB 650 RE Impact Drill:

Feature	Specification
Power Input	650 W
Power Output	338 W
Max. Torque	9 Nm
No-load Speed	50 - 3000 rpm
Impact Rate	48000 bpm
Machine Weight	1.7 kg
Max. Drilling Diameter in Concrete	14 mm
Max. Drilling Diameter in Steel	12 mm
Max. Drilling Diameter in Wood	30 mm
Voltage	220 Volts
Chuck Type	Single-sleeve Bosch Press+Lock keyless chuck
Special Features	Hammer function, variable speed, reverse gear

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Bosch website for your region. Bosch provides comprehensive customer support for its products.

If you require technical assistance, spare parts, or have questions regarding your Bosch PSB 650 RE Impact Drill, please contact Bosch customer service or an authorized service center. Contact details can typically be found on the Bosch website or in your product packaging.