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## Bosch GSR14.4V-LIN

# Bosch Professional 14.4V Battery Driver Drill User Manual

Model: GSR14.4V-LIN

## INTRODUCTION

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Thank you for choosing the Bosch Professional 14.4V Battery Driver Drill. This powerful and versatile tool is designed for a wide range of drilling and driving applications in wood, metal, and other materials. This manual provides essential information for safe operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.



Figure 1: Bosch Professional 14.4V Battery Driver Drill. This image displays the blue and black drill with an orange battery pack attached at the base, and a silver chuck at the front.

## SAFETY INSTRUCTIONS

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Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Keep this instruction manual for future reference.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.

- **Electrical Safety:** Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Pack Safety:** Recharge only with the charger specified by the manufacturer. Do not disassemble, open, or shred battery packs.

## PRODUCT OVERVIEW

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The Bosch Professional 14.4V Battery Driver Drill is a robust tool featuring a durable polyamide housing and a powerful motor. Key components include:

- **Keyless Chuck:** For quick and easy bit changes.
- **Torque Setting Ring:** To adjust the torque for various applications.
- **Gear Selector:** For high-speed drilling or high-torque driving.
- **Variable Speed Trigger:** For precise control over rotational speed.
- **Forward/Reverse Switch:** To change the direction of rotation.
- **Battery Pack:** 14.4V Lithium-Ion battery for cordless operation.

## SETUP

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### 1. Battery Installation and Charging

1. **Charging the Battery:** Connect the battery charger to a power outlet. Slide the 14.4V Lithium-Ion battery pack into the charger. The charging indicator light will show the charging status. Ensure the battery is fully charged before first use.
2. **Installing the Battery:** Align the battery pack with the base of the drill handle. Slide the battery into place until it clicks securely.
3. **Removing the Battery:** Press the battery release button (if present) and slide the battery pack out of the handle.

### 2. Inserting and Removing Drill Bits/Driver Bits

1. **Opening the Chuck:** Rotate the front part of the keyless chuck counter-clockwise until the chuck jaws are open wide enough to accept the bit.
2. **Inserting the Bit:** Insert the drill bit or driver bit fully into the chuck jaws. Ensure the bit is centered.
3. **Tightening the Chuck:** Rotate the front part of the chuck clockwise until the bit is firmly secured. For best grip, give it an extra twist by hand.
4. **Removing the Bit:** Rotate the front part of the chuck counter-clockwise to loosen the jaws and remove the bit.

## OPERATING

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### 1. Speed Selection (Gear-type 2 speed shifter)

The drill features a 2-speed mechanical gearbox for optimal performance in different applications:

- **Gear 1 (Low Speed, High Torque):** Ideal for driving screws and drilling large diameter holes in wood or metal (Rotational Speed: 0 - 450 rpm).

- **Gear 2 (High Speed, Low Torque):** Suitable for fast drilling of small diameter holes (Rotational Speed: 0 - 1,450 rpm).

To change gears, slide the gear selector switch located on top of the drill. Ensure the drill is stopped before changing gears to prevent damage.

## 2. Torque Setting (Maximum Torque: 50 Nm)

The torque setting ring allows you to adjust the amount of torque applied, preventing overtightening of screws or damage to the workpiece. Rotate the ring to select the desired torque setting. For drilling, set the ring to the drill symbol for maximum torque.

## 3. Variable Speed Control (Electronic stepless speed shifter)

The trigger switch provides variable speed control. Press the trigger gently for lower speeds and increase pressure for higher speeds. This allows for precise control, especially when starting a hole or driving screws.

## 4. Forward/Reverse Operation

The forward/reverse switch, located above the trigger, controls the direction of rotation. Push it to the left for forward (clockwise) rotation for drilling and driving. Push it to the right for reverse (counter-clockwise) rotation for removing screws or freeing jammed bits. Center position locks the trigger for safety.

## 5. Drilling and Driving Applications

- **Woodwork:** Max. 1.3 inches (32 mm) drilling capacity. Use appropriate wood drill bits. Start with a low speed and increase as needed.
- **Ironwork:** Max. 0.5 inch (13 mm) drilling capacity. Use HSS drill bits for metal. Apply steady pressure and use cutting fluid if necessary.
- **Ironworking Hole Saw:** Max. 1.7 inches (42 mm) capacity. Ensure the hole saw is securely attached and use appropriate speed.
- **Screw Tightening:** Max. 0.3 inch (7 mm) screw tightening capacity. Select a lower gear and adjust the torque setting to prevent stripping screw heads or damaging the material.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Bosch Professional 14.4V Battery Driver Drill.

- **Cleaning:** Keep the ventilation openings of the tool clean to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store battery packs in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods.
- **Storage:** When not in use, store the drill and its accessories in a secure, dry place, out of reach of children.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Drill does not start.	Battery not charged or not properly inserted. Forward/reverse switch in center (locked) position.	Ensure battery is fully charged and securely inserted. Move forward/reverse switch to desired operating position.
Loss of power during operation.	Battery charge is low. Tool is overloaded.	Recharge the battery. Reduce pressure on the tool or use a larger drill bit/lower speed setting.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Retighten the chuck firmly. Clean or replace the bit.
Overheating.	Blocked ventilation openings. Continuous heavy use.	Clean ventilation openings. Allow the tool to cool down. Avoid continuous heavy loads.

## SPECIFICATIONS

Feature	Detail
Model Number	GSR14.4V-LIN
Power Source	Battery Powered
Voltage	14.4 Volts
Battery Type	Lithium Ion
Maximum Torque	50 Newton Meters
Rotational Speed (Gear 1)	0 - 450 RPM
Rotational Speed (Gear 2)	0 - 1,450 RPM
Number of Speeds	2 (Mechanical Gearbox)
Chuck Grasp Range	1.5 - 13 mm (0.06 - 0.5 inches)
Drilling Capacity (Wood)	32 mm (1.3 inches)
Drilling Capacity (Ironwork)	13 mm (0.5 inches)
Ironworking Hole Saw Capacity	42 mm (1.7 inches)
Screw Tightening Capacity	7 mm (0.3 inches)
Item Weight	1.7 Kilograms (3.74 pounds)
Material	Polyamide
Special Feature	Variable Speed

## WARRANTY AND SUPPORT

Bosch power tools are manufactured with high-quality materials and undergo strict quality control. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or

visit the official Bosch website for your region. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact Bosch customer service through their official channels. Always provide your model number (GSR14.4V-LIN) and serial number (if applicable) when seeking support.