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## Bosch GSR 14.4-2

# Bosch GSR 14.4-2 Professional Cordless Drill/Driver Instruction Manual

Model: GSR 14.4-2 Professional

## 1. INTRODUCTION

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The Bosch GSR 14.4-2 Professional Cordless Drill/Driver is a compact and durable power tool designed for a wide range of drilling and screwdriving applications. It features a 2-speed gearbox, 25 torque settings plus a drill setting, and is powered by a 14.4V NiMH battery. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your device.



Figure 1: Bosch GSR 14.4-2 Professional Cordless Drill/Driver. This image displays the main unit of the drill/driver, highlighting its ergonomic design and key components such as the chuck, speed selector, and battery pack.

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions when operating the Bosch GSR 14.4-2 Professional Cordless Drill/Driver:

- **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:** 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.

- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Wear a dust mask if drilling or driving in dusty conditions. 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 Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

### 3. PACKAGE CONTENTS

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Verify that all items listed below are present in your package:

- Bosch GSR 14.4-2 Professional Cordless Drill/Driver
- Charger AL 2450 DV
- 2 x 2.6 Ah NiMH batteries
- Carrying case

### 4. PRODUCT OVERVIEW

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The Bosch GSR 14.4-2 Professional is engineered for versatility and durability. Its compact design ensures excellent handling, making it suitable for overhead work and tight spaces. The tool features a robust "Dura Shield" housing for enhanced resilience.



Figure 2: The drill/driver held in hand, demonstrating its compact size and ergonomic grip for comfortable operation.

### 5. SETUP

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#### 5.1. Charging the Battery

1. Connect the Charger AL 2450 DV to a suitable power outlet.
2. Insert the 14.4V NiMH battery pack into the charger.
3. Allow approximately 60 minutes for a full charge. The charger's indicator light will signal when charging is complete.

#### 5.2. Inserting the Battery Pack

1. Ensure the drill/driver is switched off.
2. Slide the charged battery pack into the base of the tool until it clicks securely into place.

#### 5.3. Attaching Accessories (Drill Bits/Screwdriver Bits)

1. Rotate the chuck counter-clockwise to open the jaws.
2. Insert the desired drill bit or screwdriver bit into the chuck. The chuck clamping range is 1-10 mm.

3. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Powering On/Off

To power on the tool, press the trigger switch. The tool will start operating. To power off, release the trigger switch.

### 6.2. Selecting Speed

The GSR 14.4-2 features a 2-speed gearbox:

- **Gear 1 (0-400 RPM):** For high torque applications, such as driving large screws or drilling large diameter holes.
- **Gear 2 (0-1400 RPM):** For high-speed drilling in smaller diameters or light screwdriving.

Use the speed selector switch located on top of the tool to choose between Gear 1 and Gear 2. Change speeds only when the tool is stationary.

### 6.3. Adjusting Torque Settings

The tool offers 20 torque settings plus a drill setting. Rotate the torque adjustment ring behind the chuck to select the desired setting. Lower settings are for smaller screws and softer materials, while higher settings are for larger screws and harder materials. The drill symbol bypasses the clutch for maximum power when drilling.

### 6.4. Forward/Reverse Operation

The forward/reverse switch, located above the trigger, controls the direction of rotation. Push it to the left for forward rotation (screwdriving in, drilling) and to the right for reverse rotation (screwdriving out). Position the switch in the center to lock the trigger and prevent accidental startup.

### 6.5. Drilling and Screwdriving

For drilling, select the drill symbol on the torque ring. For screwdriving, select an appropriate torque setting. Apply steady, even pressure. The maximum drilling capacity is 35 mm in wood and 13 mm in steel. The maximum screw diameter is 8 mm.



Figure 3: The drill/driver being used for overhead drilling, showcasing its capability in various working positions.

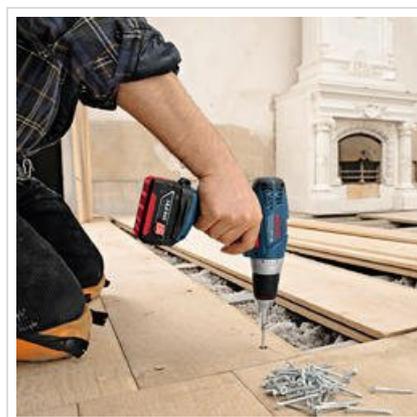


Figure 4: The drill/driver in action, driving screws into a wooden floor, demonstrating its application in screwdriving tasks.

## 7. MAINTENANCE

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## 7.1. Cleaning

Regularly clean the ventilation slots of the power tool to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaning agents.

## 7.2. Battery Care

To prolong the life of your NiMH batteries:

- Store batteries in a cool, dry place away from direct sunlight.
- Do not store fully discharged batteries for extended periods. Recharge them periodically.
- Avoid exposing batteries to extreme temperatures.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery discharged; Battery not inserted correctly; Forward/reverse switch in center (locked) position	Charge battery; Reinsert battery securely; Move forward/reverse switch to forward or reverse position
Reduced power/performance	Battery low; Incorrect torque setting for task	Recharge battery; Adjust torque setting higher or switch to drill mode
Chuck not holding bit securely	Chuck not tightened enough; Bit shank dirty or damaged	Tighten chuck firmly; Clean or replace bit
Overheating	Ventilation slots blocked; Continuous heavy use	Clean ventilation slots; Allow tool to cool down during heavy use

## 9. SPECIFICATIONS

Feature	Specification
Model	GSR 14.4-2 Professional
Battery Voltage	14.4 V
Battery Type	NiMH
Battery Capacity	1.5 Ah (2 x 2.6 Ah NiMH batteries included)
No-load Speed (1st Gear)	0 - 400 RPM
No-load Speed (2nd Gear)	0 - 1400 RPM
Max. Torque (Hard)	30 Nm
Max. Torque (Soft)	11 Nm
Torque Settings	20 + 1 (Drill)
Chuck Clamping Range	1 - 10 mm
Max. Drilling Diameter (Wood)	35 mm

Feature	Specification
Max. Drilling Diameter (Steel)	13 mm
Max. Screw Diameter	8 mm
Weight (incl. battery)	1.7 kg
Charging Time (approx.)	60 mins
Included Components	Charger AL 2450 DV, 2 x 2.6 Ah NiMH batteries, Carrying case

## 10. WARRANTY AND SUPPORT

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For warranty information, service, or technical support, please refer to the official Bosch documentation included with your product or visit the official Bosch website. Contact details for customer service can typically be found on the product packaging or on the manufacturer's website.