

BOSCH GSB18V-490B12

Bosch GSB18V-490B12 18V EC Brushless 1/2 Inch Hammer Drill/Driver Kit User Manual

Model: GSB18V-490B12

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your Bosch GSB18V-490B12 18V EC Brushless 1/2 Inch Hammer Drill/Driver Kit. Please read this manual thoroughly before using the tool to ensure proper function and safety.

Product Overview

The Bosch GSB18V-490B12 is a powerful 18V hammer drill/driver designed for demanding drilling and driving applications in various materials, including metal, wood, and masonry. It features an efficient EC Brushless motor for extended runtime and motor life, rapid mode selection, and a durable all-metal chuck.

Key Features

- **EC Brushless Motor:** Delivers 490 in.-lbs. of torque and optimized runtime.
- **Rapid Mode Selection:** Allows quick switching between hammer, drilling, and driving modes.
- **20 Precision Torque Settings:** Engages a clutch for reduced fastener damage during driving.
- **All-Metal Chuck:** Provides enhanced durability and bit retention.
- **Two-Speed Gearbox:** Offers settings for high-torque driving (0-460 rpm) or high-speed drilling (0-1,800 rpm).
- **Electronic Motor and Cell Protection:** Safeguards the tool and battery from overload, overheating, and deep discharge, contributing to longer battery life.
- **Ergonomic Grip Zone:** Designed for comfortable handling and improved control.
- **Integrated LED Light:** Illuminates the work area in low-light conditions.
- **Belt Clip:** Provides convenient portability.

2. SAFETY INFORMATION

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

General Power Tool Safety Warnings

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating hammer drills. 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. Use power tools only with specifically designated battery packs.

3. PACKAGE CONTENTS

Your Bosch GSB18V-490B12 Kit includes the following items:

- Bosch GSB18V-490 Hammer Drill/Driver
- (1) 18V 2 Ah Standard Power Battery
- 18V Charger
- Carrying Bag



Figure 3.1: The Bosch GSB18V-490B12 kit, showing the hammer drill/driver, one 18V 2 Ah battery, an 18V charger, and a carrying bag.

4. SETUP

4.1 Charging the Battery

Before first use, fully charge the 18V 2 Ah Lithium-Ion battery. Insert the battery into the provided 18V charger. The charger's indicator lights will show the charging status. Ensure the charger is connected to a compatible power outlet (120V for US models).

4.2 Installing/Removing the Battery

1. To install, align the battery with the base of the drill handle and slide it in until it clicks securely into place.
2. To remove, press the release button on the battery pack and slide the battery out of the tool.



Figure 4.1: The Bosch GSB18V-490 hammer drill with an 18V battery securely attached to its base.

4.3 Installing/Removing Drill Bits or Accessories

1. Ensure the tool is off and the battery is removed before changing accessories.
2. Rotate the chuck counter-clockwise to open the jaws.
3. Insert the drill bit or accessory fully into the chuck.
4. Rotate the chuck clockwise to tighten the jaws securely around the bit. The all-metal chuck will click when sufficiently tightened.
5. To remove, rotate the chuck counter-clockwise to loosen and pull the bit out.



Figure 4.2: Front view of the drill, highlighting the all-metal chuck for bit installation.

5. OPERATING INSTRUCTIONS

5.1 Understanding Drill Components



Figure 5.1: Diagram of the Bosch GSB18V-490 hammer drill, indicating key features such as the all-metal chuck, electronic motor protection, EC brushless motor, ergonomic grip zone, LED light, and belt clip.

5.2 Mode Selection

The drill features a rapid mode selection collar located behind the chuck. Rotate this collar to choose between three operating modes:

- **Drilling Mode (Drill Icon):** For general drilling in wood, metal, and plastic.
- **Hammer Drilling Mode (Hammer Icon):** For drilling into masonry and concrete.
- **Driving Mode (Screw Icon):** For driving screws, utilizing the clutch settings.

5.3 Torque Settings (Driving Mode Only)

When in driving mode, adjust the torque collar (numbered 1-20) to select the desired torque level. Lower numbers provide less torque, suitable for smaller fasteners or softer materials, preventing overtightening or stripping. Higher numbers provide more torque for larger fasteners or harder materials.

5.4 Speed Selection

The drill has a two-speed gearbox. Use the speed selector switch, typically located on top of the drill, to choose between:

- **Speed 1 (Low Speed):** 0-460 rpm, ideal for high-torque driving applications and larger drilling diameters.

- **Speed 2 (High Speed):** 0-1,800 rpm, suitable for high-speed drilling and smaller drilling diameters.

5.5 Operating the Trigger and Direction Switch

- **Trigger:** Squeeze the trigger to start the drill. The variable speed trigger allows for precise speed control; press lightly for slower speeds and harder for faster speeds.
- **Direction Switch:** Located above the trigger, this switch controls the rotation direction (forward/reverse) and locks the trigger when in the center position.



Figure 5.2: The drill in use, demonstrating its application for driving screws into a door hinge.



Figure 5.3: The drill being used to create a pilot hole in a wooden box, showcasing its drilling capability.

5.6 Integrated LED Light

The LED light automatically illuminates the work area when the trigger is pressed, improving visibility in dimly lit spaces.

5.7 Belt Clip

Attach the included belt clip to either side of the drill for convenient temporary storage while working.

6. MAINTENANCE

6.1 General Cleaning

Regularly clean the ventilation openings of the tool to prevent dust accumulation. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.

6.2 Battery Care and Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically if not in

use.

- The Electronic Motor and Cell Protection system helps protect the battery from overload, overheating, and deep discharge, contributing to longer battery life.

Included battery is part of the AMPShare™ 18V Battery System

2Ah



Powered by



18V kit with (1) 2 Ah 18V battery included.

Figure 6.1: The Bosch 18V 2Ah battery, part of the AMPShare 18V Battery System, designed for durability and performance.



Powered by



BOSCH

Multi-brand Compatible 18V Battery System



Figure 6.2: An illustration of the Bosch AMPShare Multi-brand Compatible 18V Battery System, highlighting its versatility across various tools.

7. TROUBLESHOOTING

If you encounter issues with your Bosch GSB18V-490B12, refer to the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
|---------------------------------|--|---|
| Tool does not start. | Battery not charged or improperly installed. | Ensure battery is fully charged and correctly seated. |
| Reduced power or performance. | Low battery charge; incorrect speed or torque setting. | Recharge battery. Adjust speed and torque settings for the application. |
| Chuck not holding bit securely. | Bit not inserted fully; chuck not tightened enough. | Ensure bit is fully inserted and chuck is tightened until it clicks. |
| Overheating during use. | Tool overloaded; blocked ventilation openings. | Reduce load. Clean ventilation openings. Allow tool to cool. |

If the problem persists after attempting these solutions, please contact Bosch customer support.

8. SPECIFICATIONS

| Feature | Detail |
|--------------------------|-----------------------------|
| Brand | BOSCH |
| Model Number | GSB18V-490B12 |
| Power Source | Battery Powered |
| Voltage | 18 Volts |
| Amperage | 2 Amps |
| Battery Capacity | 2 Amp Hours (Lithium Ion) |
| Maximum Rotational Speed | 1900 RPM |
| Number of Speeds | 2 (0-460 rpm / 0-1,800 rpm) |
| Maximum Torque | 490 Inch Pounds |
| Maximum Chuck Size | 13 Millimeters (1/2 Inch) |
| Drill Type | Hammer Drill |
| Item Weight | 6.07 pounds (with battery) |
| Product Dimensions | 7.44"L x 3"W x 8.1"H |
| Material | Plastic |
| Special Feature | Variable Speed |

9. WARRANTY INFORMATION

Bosch provides a limited warranty for its power tools and batteries:

- **Bosch 18V Cordless Power Tools and 18V Chargers:** Covered by a five-year limited warranty.
- **Bosch 18V Batteries:** Covered by a three-year limited warranty.

For detailed warranty terms and conditions, please visit the official Bosch website or contact customer support. The warranty is effective from June 1, 2023, for all 18V products.



BOSCH

18V-Tool-Charger/Battery Kit



18V
LIMITED
WARRANTY

5 YEAR
Tool/Charger

3 YEAR
Battery

Effective 6/1/23, all 18V products are covered by this updated warranty.
For updated terms, visit <https://rb-pt.io/PowerToolWarranty>
or call 1-877-BOSCH99

Figure 9.1: Bosch 18V Limited Warranty information, detailing 5 years for the tool/charger and 3 years for the battery.

You can find more information at rb-pt.io/PowerToolWarranty or by calling 1-877-BOSCH99.

10. SUPPORT

For further assistance, technical support, or service inquiries, please contact Bosch customer service:

- **Phone:** 1-877-BOSCH99
- **Online:** Visit the official Bosch website for support resources and contact options.

An official User Manual (PDF) for this product may also be available for download at

<https://manuals.plus/m/a2554f95bd2ca98933cddb01d84baa9c34181a289376c8b9c2268631bf8143c>.