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## BOSCH PS31-2A

# BOSCH PS31-2A 12V Max 3/8 Inch Drill/Driver Kit User Manual

Model: PS31-2A | Brand: BOSCH

## INTRODUCTION

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The BOSCH PS31-2A 12V Max 3/8 Inch Drill/Driver is a compact and powerful tool designed for a wide range of drilling and driving applications. Its lightweight design and advanced features make it suitable for both professional tasks and home improvement projects. This manual provides essential information on the setup, operation, maintenance, and specifications of your new drill/driver kit.

## WHAT'S IN THE BOX

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Image: The complete BOSCH PS31-2A kit, including the drill/driver, two batteries, a charger, and a carrying bag.

Your BOSCH PS31-2A 12V Max 3/8 Inch Drill/Driver Kit includes the following components:

- (1) PS31 12V Max 3/8 In. Drill/Driver
- (2) 12V Max Lithium-Ion 2.0 Ah Batteries
- (1) 12V Max Charger
- (2) Screwdriver Bits
- (1) Carrying Bag

## KEY FEATURES

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Image: Close-up view of the BOSCH PS31-2A drill/driver highlighting its key features such as the 20+1 clutch settings, compact design, LED light, and battery fuel gauge.

- **Lightweight Design:** Weighs only 1.80 lbs for comfortable use during extended tasks, reducing user fatigue.
- **Compact Power:** Offers the best performance-to-size ratio in its class, making it ideal for working in tight spaces and hard-to-reach areas. Features a 7-inch head length for enhanced maneuverability.
- **High Torque Output:** Delivers a maximum torque of 265 In.-Lbs. for powerful performance across various applications.
- **Variable Speed Settings:** Equipped with two speed settings (0-350 RPM and 0-1,300 RPM) allowing users to precisely match the speed to the specific task.
- **Precision Torque Control:** Features 20+1 clutch settings for accurate torque adjustments, which helps prevent over-driving screws and damaging materials.
- **Secure Bit Holding:** The 3/8-inch single-sleeve three-jaw chuck securely holds bits for reliable and consistent performance.
- **Integrated LED Light:** A built-in LED light illuminates dark workspaces, improving visibility and accuracy during operation.
- **Battery Fuel Gauge:** An integrated fuel gauge on the side of the tool provides real-time battery status for efficient power management.

## SETUP

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### 1. Charging the Battery

Before first use, fully charge both 12V Max Lithium-Ion batteries. Insert the battery into the charger, ensuring it clicks into place. The charger's indicator light will show the charging status. A full charge typically takes approximately 30 minutes.

### 2. Installing the Battery

To install a charged battery, align the battery with the base of the drill/driver handle and slide it in until it clicks securely into place. To remove the battery, press the release tabs on the sides of the battery and pull it out.

### 3. Installing/Changing Bits





Image: The front view of the BOSCH PS31-2A drill/driver, showing the chuck and an installed screwdriver bit.

1. Ensure the drill/driver is turned off and the forward/reverse switch is in the neutral (locked) position.
2. Twist the chuck counter-clockwise to open the jaws.
3. Insert the desired drill bit or screwdriver bit into the chuck. Ensure the bit is inserted as far as possible for maximum grip.
4. Twist the chuck clockwise to tighten the jaws firmly around the bit. The 3/8-inch single-sleeve chuck allows for easy, keyless bit changes.

## OPERATING INSTRUCTIONS

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### 1. Powering On/Off and Speed Control

The drill/driver is activated by pressing the variable speed trigger. The further the trigger is pressed, the faster the drill rotates. Release the trigger to turn off the tool.

### 2. Forward/Reverse Switch

The forward/reverse switch is located above the trigger. Push it to the left for forward rotation (for drilling and driving screws) and to the right for reverse rotation (for removing screws). When the switch is in the center position, the trigger is locked, preventing accidental activation.

### 3. Gear Selection (Speed)

The drill/driver features two mechanical speed settings:

- **Gear 1 (Low Speed):** 0-350 RPM. Ideal for high-torque applications such as driving large screws or drilling into tough materials.

- **Gear 2 (High Speed):** 0-1,300 RPM. Suitable for faster drilling and driving smaller screws.

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

#### 4. Torque Adjustment (Clutch Settings)

The torque adjustment collar allows you to set the amount of torque applied before the clutch disengages. This prevents over-tightening screws and damaging the workpiece or screw head. There are 20 torque settings plus a drill mode:

- **Settings 1-20:** Lower numbers provide less torque, suitable for smaller screws or softer materials. Higher numbers provide more torque for larger screws or harder materials.
- **Drill Mode (Drill Bit Icon):** Provides maximum torque for drilling applications, bypassing the clutch mechanism.

Rotate the collar to select the desired setting. Start with a lower setting and increase it as needed to achieve the desired tightness without stripping the screw or damaging the material.



Image: A person using the compact BOSCH PS31-2A drill/driver for overhead work, demonstrating its maneuverability.



Image: A person using the BOSCH PS31-2A drill/driver to drill into a wooden surface, showcasing its application in woodworking.

## MAINTENANCE

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- **Cleaning:** Regularly clean the ventilation openings on the tool to prevent dust and debris buildup, which can affect performance and motor life. Use a soft, dry cloth. Do not use water or chemical cleaners.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not expose batteries to extreme temperatures. For long-term storage, charge batteries to about 50% capacity.
- **Chuck Maintenance:** Periodically inspect the chuck jaws for wear or damage. Clean any debris from the chuck mechanism.
- **Electronic Cell Protection (ECP):** This Bosch feature protects the battery against overload, overheating, and deep discharge, extending its lifespan.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Tool does not start.	Battery not inserted correctly or discharged. Forward/reverse switch in locked position.	Ensure battery is fully inserted and charged. Move forward/reverse switch out of the center (locked) position.
Reduced power or short runtime.	Battery is low or nearing end of life.	Recharge the battery. If problem persists with fully charged batteries, consider replacing the battery.
Bit slips in chuck.	Chuck not tightened sufficiently or bit shank is dirty/damaged.	Ensure chuck is tightened firmly. Clean or replace the bit if necessary.
Over-tightening screws.	Torque setting is too high.	Adjust the torque collar to a lower setting.

## SPECIFICATIONS

Feature	Detail
Brand	BOSCH
Model Number	PS31-2A
Power Source	Battery Powered (12V Lithium-Ion)
Maximum Rotational Speed (Gear 1)	350 RPM
Maximum Rotational Speed (Gear 2)	1300 RPM
Maximum Torque	265 Inch Pounds
Chuck Size	3/8 Inches
Clutch Settings	20+1 (Drill Mode)
Item Weight	1.80 lbs (tool only) / 3 lbs (with battery)
Product Dimensions	4.5"L x 3"W x 8.6"H
Battery Capacity	2.0 Ah
Color	Blue

## WARRANTY INFORMATION



Image: BOSCH 12V Max Limited Warranty graphic, indicating 3-year coverage for tool, battery, and charger.

The BOSCH PS31-2A 12V Max 3/8 Inch Drill/Driver is backed by Bosch's ProVantage warranty. This warranty includes:

- **First Year:** Tool replacement guarantee.
- **Second and Third Year:** Free tool repair pledge.

The tool itself is covered for three years, and the included batteries are covered for two years. Additionally, a 30-Day Money Back Guarantee is provided.

For updated terms and full warranty details, please refer to the official Bosch website or contact Bosch customer support.

## SUPPORT

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For further assistance, technical support, or to inquire about service and parts, please contact Bosch customer service:

- **Online Support:** Visit the official Bosch website for FAQs, product registration, and service center locations.
- **Phone Support:** Call 1-877-BOSCH99 (1-877-267-2499) for direct assistance.

Please have your model number (PS31-2A) and serial number ready when contacting support.