

Bosch PS21-2A

Bosch PS21-2A 12V Max Two-Speed Pocket Driver Kit Industrial User Manual

MODEL: PS21-2A | BRAND: BOSCH

1. INTRODUCTION

Thank you for choosing the Bosch PS21-2A 12V Max Two-Speed Pocket Driver Kit. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before first use and keep it for future reference.

The Bosch PS21-2A is a compact and powerful 12V Max two-speed pocket driver designed for various screw-driving and light drilling tasks. Its ergonomic design and robust features make it suitable for both professional and DIY applications.

2. GENERAL SAFETY INFORMATION

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

- Wear appropriate personal protective equipment (PPE), including eye protection, when operating the tool.
- Keep the 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Avoid unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking

into account the working conditions and the work to be performed.

3. PACKAGE CONTENTS

Your Bosch PS21-2A Kit includes the following items:

- Bosch PS21-2A 12V Max Two-Speed Pocket Driver
- Two (2) Lithium-Ion 12V Max Batteries
- 30-Minute Battery Charger
- Carrying Case



Figure 1: Bosch PS21-2A Kit Contents

4. SETUP

4.1. Charging the Battery

1. Connect the charger to a standard electrical outlet.
2. Slide the 12V Max Lithium-Ion battery into the charger until it clicks into place.
3. The charger's indicator light will show the charging status. A full charge typically takes 30 minutes.
4. Once fully charged, remove the battery from the charger.

4.2. Installing/Removing the Battery

1. To install: Align the battery with the base of the driver and slide it in until it clicks securely.
2. To remove: Press the release tabs on the sides of the battery and slide it out.

4.3. Inserting/Removing Bits

The PS21-2A features a 1/4 inch quick-change hex chuck.

1. To insert: Push the hex bit directly into the chuck until it locks.
2. To remove: Pull the chuck collar forward and pull the bit out.

4.4. Product Overview Video

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Video 1: Official Bosch PS21 Product Overview (2013). This video provides a visual guide to the features and basic operation of the Bosch PS21-2A driver.

5. OPERATING INSTRUCTIONS



Figure 2: Key Features of the Bosch PS21-2A Driver

5.1. Variable Speed Trigger

The tool features a variable-speed trigger. The speed of the tool increases as you press the trigger further. This allows for precise control over drilling and driving applications.

5.2. Speed Settings

The PS21-2A has two mechanical speed settings, selected via a switch on top of the tool:

- **Speed 1 (Low)**: 0-350 RPM. Provides higher torque for driving screws and drilling in tougher materials.
- **Speed 2 (High)**: 0-1,300 RPM. Provides faster speed for lighter drilling and quick fastening.

5.3. Torque Settings (Clutch)

The adjustable clutch allows you to set the torque for specific applications, preventing over-driving screws or damaging materials. It offers 20+1 settings:

- Settings 1-20: For driving screws. Lower numbers provide less torque, higher numbers provide more.
- Drill Mode (Drill Bit Symbol): Bypasses the clutch for maximum torque, ideal for drilling.

Rotate the collar at the front of the tool to select the desired torque setting or drill mode.

5.4. Forward/Reverse Button

A slide switch located above the trigger controls the direction of rotation:

- Push left: Forward rotation (for driving screws).
- Push right: Reverse rotation (for removing screws).
- Center position: Locks the trigger to prevent accidental operation.

5.5. Integrated LED Light

The integrated LED light illuminates the work area when the trigger is pressed, improving visibility in

dark or confined spaces.



Figure 3: Integrated LED Light



Figure 4: Driver in use in a confined area

6. MAINTENANCE

6.1. Cleaning

- Keep the tool's ventilation openings clean to prevent overheating.
- Regularly wipe down the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2. Battery Care

- 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.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted.
Reduced power/torque	Low battery charge; incorrect clutch setting.	Recharge battery; adjust clutch to a higher setting or drill mode.
Bit slips in chuck	Bit not fully inserted or chuck collar not released.	Ensure bit is fully inserted and chuck collar is released to lock it in place.

8. SPECIFICATIONS

Feature	Specification
Model Number	PS21-2A

Feature	Specification
Power Source	Battery Powered (12V Lithium-Ion)
Maximum Rotational Speed	1300 RPM
Voltage	12V
Amperage	2 Amps
Maximum Torque	265 Inch Pounds
Number of Speeds	2
Clutch Settings	20+1
Chuck Type	1/4 Inch Hex Quick-Change
Item Weight	1.4 Pounds
Product Dimensions	6.5"L x 2.5"W x 9.5"H

9. WARRANTY AND SUPPORT

The Bosch PS21-2A 12V Max Cordless Power Tools and 12V Max Chargers and Batteries are covered by a three-year limited warranty. This includes:

- Two (2) years of free battery replacements.
- Three (3) years of tool protection.
- One (1) year tool replacement.
- Free tool repair for the second and third years.

For warranty details or support, please call 1-877-BOSCH99 or visit the official Bosch Power Tools website.