

JOVANT PTJ-021

JOVANT Cordless Angle Grinder PTJ-021 User Manual

Model: PTJ-021

1. INTRODUCTION

This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your JOVANT Cordless Angle Grinder PTJ-021. Please read this manual thoroughly before using the tool to ensure proper and safe usage. Keep this manual for future reference.

2. GENERAL SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Failure to follow these instructions may result in serious injury.

- **Work Area Safety:** 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.
- **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, such as safety goggles or a face shield. Use hearing protection when operating the tool for extended periods. Wear appropriate clothing; avoid loose clothing or jewelry. Secure long hair.
- **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. PRODUCT OVERVIEW

The JOVANT Cordless Angle Grinder PTJ-021 is a versatile tool designed for grinding, metal cutting, sharpening, and rust removal. It features a brushless motor, four-speed settings, and a universal 7/8" arbor for compatibility with various accessories.



Figure 1: Product Analysis of the JOVANT Cordless Angle Grinder, highlighting key components such as the Battery Release Button, On/Off Switch, Spindle Lock Button, Wheel Guard, Air Vent, Battery, Spindle, Guard Adjusting Lever, and Side Handle.

Key Features:

- **Brushless Motor:** Provides enhanced performance and extended tool life.
- **High Speed:** Up to 9000 RPM for efficient material removal.
- **Variable Speed Settings:** Four-speed settings for precise control.
- **Cordless Design:** Offers portability and convenience for indoor and outdoor use.
- **Universal Arbor:** 7/8" arbor compatible with a wide range of accessories.
- **Electric Clutch:** Provides kickback protection for user safety.
- **Ergonomic Handle:** Can be mounted on both sides for comfort and control.

4. SETUP

Before operating the angle grinder, ensure all components are correctly assembled and the battery is charged.

4.1 Unpacking and Inspection

Carefully remove all items from the packaging. Inspect the tool and accessories for any damage that may have occurred during shipping. Do not operate the tool if any parts are damaged.

Your browser does not support the video tag.

Video 1: This video demonstrates the contents included in the JOVANT 5" angle grinder tool bag, showing the grinder, various accessories, and how they are organized.

4.2 Attaching the Wheel Guard

1. Ensure the grinder is switched off and the battery is removed.
2. Align the wheel guard with the grinder head.
3. Slide the guard into position and secure it using the guard adjusting lever. Ensure it is firmly in place and provides maximum protection for your application.

4.3 Installing/Changing Grinding/Cutting Discs

1. Ensure the grinder is switched off and the battery is removed.
2. Press and hold the spindle lock button.
3. Use the provided wrench to loosen the outer flange nut counter-clockwise.
4. Remove the outer flange nut and the old disc (if applicable).
5. Place the new grinding or cutting disc onto the spindle, ensuring it sits flush against the inner flange.
6. Replace the outer flange nut and tighten it clockwise with the wrench while holding the spindle lock button. Do not overtighten.

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Video 2: This video provides a step-by-step guide on how to install and use the cordless angle grinder, including attaching the wheel guard, installing discs, and operating the tool.

4.4 Attaching the Side Handle

The ergonomic side handle can be screwed into either side of the grinder head, depending on user preference and application. Ensure it is securely tightened before use.

4.5 Installing the Battery

Align the battery pack with the battery slot on the tool handle and slide it in until it clicks securely into place. To remove, press the battery release button and slide the battery out.

5. OPERATING INSTRUCTIONS

Always ensure you are wearing appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves before operating the grinder.

5.1 Powering On/Off

1. To turn on the grinder, slide the On/Off switch to the 'On' position.
2. To turn off the grinder, slide the On/Off switch to the 'Off' position.

5.2 Adjusting Speed Settings

The grinder features four-speed settings. Refer to the tool's interface for specific speed adjustment controls. Select a lower speed for delicate tasks and higher speeds for aggressive material removal.

5.3 Applications

The JOVANT Cordless Angle Grinder is suitable for:

- **Grinding:** Use appropriate grinding discs for smoothing rough surfaces or removing excess material from metal, wood, or concrete.
- **Cutting:** Attach a cutting disc for precise cuts in metal pipes, rebar, or other materials.
- **Polishing:** With suitable polishing pads, the grinder can be used to achieve a smooth finish on various surfaces.
- **Rust Removal:** Wire brushes or abrasive discs can be used to effectively remove rust and corrosion.



Figure 2: The JOVANT Cordless Angle Grinder demonstrating its cutting capability on a metal piece, producing sparks.

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Video 3: This video showcases the performance of the JOVANT 5" Angle Grinder in various applications, including cutting and grinding different materials, demonstrating its power and efficiency.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder.

- **Cleaning:** Keep the tool's ventilation openings clean to prevent overheating. Regularly clean dust and debris from the tool using a soft brush or compressed air.
- **Disc Replacement:** Replace worn or damaged grinding/cutting discs immediately. Refer to section 4.3 for instructions.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries. Charge them periodically if not in use for extended periods.
- **Inspection:** Periodically check all screws and fasteners for tightness. Ensure the wheel guard is not damaged and functions correctly.

7. TROUBLESHOOTING

If you encounter issues with your JOVANT Cordless Angle Grinder, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Grinder does not start	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Reduced power or speed	Low battery charge. Worn or incorrect disc.	Recharge battery. Replace disc if worn or use appropriate disc for task.
Excessive vibration	Damaged or improperly installed disc. Loose components.	Inspect and replace disc if damaged. Ensure disc and handle are securely fastened.
Tool overheats	Blocked air vents. Overloading the tool.	Clean air vents. Reduce pressure on the tool during operation.

8. SPECIFICATIONS

Feature	Detail
Brand	JOVANT
Model Number	PTJ-021
Power Source	Battery Powered (20V Lithium Ion)
Maximum Rotational Speed	9000 RPM
Arbor Size	7/8 inches
Compatible Disc Diameter	4-1/2 inches to 5 inches
Motor Type	Brushless
Product Dimensions	3.74"L x 3.15"W x 12.2"H
Item Weight	3 Pounds
Color	Teal and Black
Included Components (No Battery Style)	1*cordless angle grinder, 1*bag, 1*6.3" wheel guard, 1* wrench, 1* screwdriver, 1* non-slip handle, and a pair of pressure plates

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official JOVANT website. Customer service is available to assist with any questions or concerns regarding your power tool.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question