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JOVANT PTJ-016

JOVANT 20V Max Cordless Hammer Drill

Model: PTJ-016

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your JOVANT 20V Max Cordless Hammer Drill, Model PTJ-016. Please read all instructions carefully before use to ensure proper handling and to prevent injury or damage.



Figure 1: JOVANT 20V Max Cordless Hammer Drill and included accessories.

2. Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

General Power Tool Safety

- **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 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 the hammer drill. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.

- **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

Verify that all items are present upon unpacking:

- 1 x Cordless Hammer Drill (Model PTJ-016)
- 2 x 20V 2.0Ah Lithium-Ion Batteries
- 1 x Battery Charger
- 1 x User Manual
- 1 x Tool Bag
- 1 x Flexible Extension Piece

4. Product Features and Components

The JOVANT 20V Max Cordless Hammer Drill is designed for versatility and efficiency, featuring a brushless motor and multiple operating modes.

Key Features:

- **Brushless Motor:** Provides increased power, efficiency, and longer tool life.
- **1/2-inch Keyless All-Metal Chuck:** Ensures quick and secure bit changes and enhanced durability.
- **Variable 2-Speed Control:** Offers precise control for various applications (0-500 RPM and 0-1800 RPM).
- **20+2 Torque Settings:** Allows for optimal performance in drilling, driving, and hammer tasks.
- **3-in-1 Functionality:** Supports drilling, impact drilling, and screwdriving modes.
- **Built-in LED Work Light:** Illuminates the work area for improved visibility.
- **Forward/Reverse Button:** For easy screw tightening and loosening.
- **Ergonomic Design:** Provides comfort during extended use.



Figure 2: Internal components and key features of the drill.



Figure 3: The durable 1/2-inch keyless all-metal chuck.

5. Setup

5.1 Battery Charging

1. Ensure the battery is clean and dry before charging.
2. Connect the charger to a standard power outlet.
3. Slide the battery pack onto the charger until it clicks into place.
4. The charging indicator light on the charger will show the charging status. A full charge typically takes one hour.
5. Once fully charged, remove the battery from the charger.



Figure 4: Battery charging process.

5.2 Installing and Removing the Battery

1. To install: Align the battery pack with the base of the drill handle and slide it in until it locks securely.
2. To remove: Press the battery release button (usually located on the front or sides of the battery) and slide the battery pack out.

5.3 Installing and Removing Drill Bits

1. **To install:** Rotate the chuck counter-clockwise to open the jaws. Insert the drill bit or accessory fully into the chuck. Rotate the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly held.
2. **To remove:** Rotate the chuck counter-clockwise to loosen the jaws and pull the bit out.

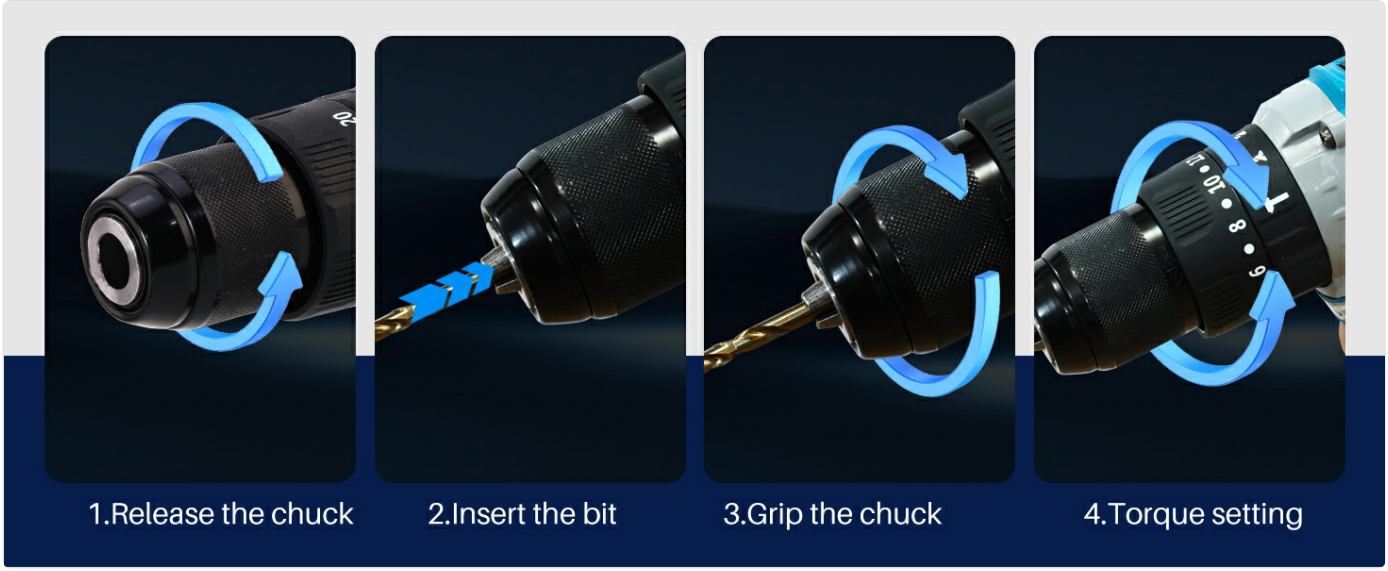


Figure 5: Steps for chuck operation and bit installation.

6. Operating Instructions

6.1 Selecting Speed

The drill features a 2-speed gearbox. Use the speed selector switch located on top of the drill:

- **Position 1 (Low Speed, 0-500 RPM):** Ideal for screwdriving and drilling large diameter holes in softer materials.
- **Position 2 (High Speed, 0-1800 RPM):** Suitable for drilling small diameter holes and for hammer drilling applications.



Figure 6: Speed and torque adjustment.

6.2 Adjusting Torque

The torque adjustment ring allows you to select from 20 torque settings for screwdriving, plus a drilling mode and a hammer drilling mode. Rotate the ring to the desired setting:

- **Settings 1-20:** For driving screws. Lower numbers are for smaller screws or softer materials; higher numbers are for larger screws or harder materials.
- **Drill Symbol:** For general drilling without torque limitation.
- **Hammer Symbol:** For hammer drilling into masonry or concrete.

6.3 Selecting Operating Mode (3-in-1 Functionality)

The drill offers three primary modes:

- **Drilling Mode:** For drilling into wood, metal, plastic, etc.
- **Screwdriving Mode:** For driving and removing screws.
- **Impact Drilling Mode:** For drilling into hard materials like concrete or masonry.



Figure 7: The three operating modes: Drilling, Impact Drilling, and Screwdriving.

6.4 Forward/Reverse Rotation

The forward/reverse selector switch is located above the trigger. Push it to the left for forward rotation (tightening screws, drilling) and to the right for reverse rotation (loosening screws, removing bits).



Figure 8: Forward and reverse rotation for screwdriving.

6.5 Using the LED Work Light

The integrated LED work light automatically illuminates when the trigger is pressed, providing visibility in dimly lit work areas.



Figure 9: LED work light in operation.

6.6 Using the Flexible Extension Piece

The flexible extension piece allows access to screws or drilling locations in tight or awkward spaces. Attach it to the chuck as you would a regular drill bit.



Figure 10: Using the flexible extension piece for confined spaces.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your drill.

- **Cleaning:** Keep the ventilation slots of the tool clean to prevent overheating. Use a soft, damp cloth to clean the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Storage:** When not in use, store the drill and accessories in the provided tool bag in a dry, secure location out of reach of children.

8. Troubleshooting

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Loss of power during operation	Battery charge is low.	Recharge the battery.
Bit slips in chuck	Chuck not tightened sufficiently or bit shank is dirty/damaged.	Tighten chuck firmly. Clean or replace the bit if necessary.
Excessive vibration	Bent drill bit or improper bit installation.	Check and replace bent bits. Reinstall bit correctly.

9. Specifications

Feature	Specification
Brand	JOVANT
Model Number	PTJ-016
Power Source	Battery Powered
Voltage	20 Volts
Battery Capacity	2.0 Ah (Lithium Ion)
Maximum Rotational Speed	1800 RPM
No-Load Speed (Gear 1)	0-500 RPM
No-Load Speed (Gear 2)	0-1800 RPM
Maximum Chuck Size	0.5 Inches (1/2")
Torque Settings	20 + Drill Mode + Hammer Mode
Maximum Torque	110 Newton Meters
Drill Type	Hammer Drill
Product Dimensions	6.3"L x 2.75"W x 9"H
Item Weight	9.02 pounds (with batteries)
Material	Metal, Plastic

10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official JOVANT website. Keep your purchase receipt as proof of purchase.

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