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FAHEFANA 20VDZ

FAHEFANA 20V Brushless Cordless Drill User Manual

Model: 20VDZ

1. INTRODUCTION

Thank you for choosing the FAHEFANA 20V Brushless Cordless Drill. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before first use and keep it for future reference.



Image 1.1: The FAHEFANA 20V Brushless Cordless Drill, including two batteries and a selection of accessories.

2. SAFETY INSTRUCTIONS

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

- **Work Area Safety:** Keep your 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. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. 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 Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with any other power tools. When the battery pack is not in use, keep it away from other metal objects.

3. PACKAGE CONTENTS

Carefully unpack all items and check against the list below. If any parts are missing or damaged, contact your retailer.

- 1 x FAHEFANA 20V Brushless Cordless Drill
- 2 x 2000mAh Lithium-ion Batteries
- 1 x Fast Charger
- 4 x Screwdriver Bits
- 3 x Helical Drill Bits
- 3 x Flat Drill Bits
- 9 x Socket Wrenches
- 1 x Socket Adapter
- 1 x Hexagonal Screw Holder
- 1 x Flexible Shaft Screwdriver
- 1 x Carrying Case



Image 3.1: Overview of the drill, two batteries, charger, and the comprehensive set of 25 accessories.

4. PRODUCT OVERVIEW

Familiarize yourself with the components of your FAHEFANA 20V Brushless Cordless Drill.



Image 4.1: Labeled diagram of the drill components, including the 10mm chuck, LED light, variable speed trigger, power indicator, belt clip, forward/reverse switch, speed selector, and 25+1 torque adjustment ring.

Brushless Motor Technology

This drill features a powerful brushless motor, offering several advantages over traditional brushed motors:

- **Increased Efficiency:** Delivers up to 60 Nm of torque, providing more power for demanding tasks.
- **Longer Lifespan:** Eliminates carbon brush wear, reducing maintenance and extending tool life.
- **Compact Design:** Allows for a more compact and lightweight tool.
- **Enhanced Safety:** Operates without sparks, making it safer in certain environments.

Puissant Moteur sans Balais



Puissant



Compact



Faible Perte



Image 4.2: An internal view illustrating the brushless motor, emphasizing its powerful, compact, and low-loss design.

5. SETUP

5.1 Battery Charging

The drill is powered by 20V Lithium-ion batteries. Ensure batteries are fully charged before first use.

1. Connect the fast charger to a standard power outlet.
2. Slide the battery pack onto the charger. The indicator light on the charger will show the charging status.
3. A full charge typically takes approximately one hour.
4. Once charged, remove the battery from the charger.



Image 5.1: The two 2000mAh Lithium-ion batteries, one connected to the fast charger and another ready for use, enabling continuous operation.

5.2 Battery Installation and Removal

- **Installation:** Align the battery pack with the base of the drill handle and slide it in until it clicks securely into place.
- **Removal:** Press the battery release buttons on the sides of the battery pack and slide the battery out of the drill.

5.3 Accessory Installation and Removal (Drill Bits, Screwdriver Bits)

The drill features a 10mm (3/8") keyless chuck for quick and easy bit changes.

1. **To Open the Chuck:** Rotate the chuck collar counter-clockwise until the jaws are wide enough to insert the desired bit.
2. **To Insert a Bit:** Insert the shank of the drill bit or screwdriver bit into the chuck jaws. Ensure the bit is centered.
3. **To Close the Chuck:** Rotate the chuck collar clockwise until the bit is firmly secured. Do not overtighten.
4. **To Remove a Bit:** Rotate the chuck collar counter-clockwise to loosen the jaws and pull the bit out.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off and Variable Speed Trigger

The drill is activated by pressing the variable speed trigger. The speed of rotation is controlled by the amount of pressure applied to the trigger. Pressing lightly results in lower speed, while pressing fully results in maximum speed.

6.2 Speed Selection

The drill has two speed settings, selected via the speed selector switch located on top of the drill.

- **Speed 1 (0-500 RPM):** For screwdriving applications and drilling larger holes in softer materials.

Provides higher torque.

- **Speed 2 (0-1850 RPM):** For drilling smaller holes and general drilling in various materials. Provides higher speed.



Image 6.1: The speed selector switch, illustrating Speed 1 (0-500 RPM) for screwdriving and Speed 2 (0-1850 RPM) for drilling.

6.3 Torque Adjustment

The torque adjustment ring allows you to select from 25 torque settings plus a drill mode. This prevents overtightening screws and damaging materials.

- **Settings 1-25:** For screwdriving. Start with a lower setting and increase as needed until the screw is driven flush without stripping.
- **Drill Mode (Drill Icon):** For drilling applications. This setting provides maximum torque for drilling.

25+1 Contrôle

Précis l'Embrayage



Image 6.2: The 25+1 precise clutch control ring, showing settings for various materials like plastic, wood, screws, and metals.

6.4 Forward/Reverse Rotation

The forward/reverse switch, located above the trigger, controls the direction of rotation.

- Pushing the switch to the left (when viewed from the rear) sets the drill to forward rotation for driving screws or drilling.
- Pushing the switch to the right sets the drill to reverse rotation for removing screws or backing out drill bits.
- When the switch is in the center position, the trigger is locked, preventing accidental startup.

6.5 LED Work Light

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



Image 6.3: The LED light feature in action, illuminating the work area for improved visibility in dark or confined spaces.

6.6 Drilling and Screwdriving Techniques

- **Drilling:** Select the appropriate drill bit and speed. Apply steady, even pressure. For hard materials, use a slower speed and apply cutting fluid if necessary.
- **Screwdriving:** Select the correct screwdriver bit and torque setting. Hold the drill firmly and apply pressure in line with the screw to prevent cam-out.

Deux 2000mAh Batteries



Image 6.4: A user operating the cordless drill to create a hole in a wooden plank, demonstrating a typical drilling application.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the ventilation slots clear and free of dust. Use a soft, damp cloth to clean the tool casing. 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 its carrying case in a dry, secure location out of reach of children.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drill does not start	Battery not charged or improperly installed. Forward/reverse switch in center (locked) position.	Charge battery and ensure it is securely installed. Move forward/reverse switch to forward or reverse position.
Loss of power during operation	Battery charge is low. Overload protection activated.	Recharge the battery. Reduce pressure on the tool or use a lower speed/torque setting.
Bit slips in chuck	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Retighten chuck firmly. Clean or replace the bit.
Excessive vibration	Bent or damaged drill bit.	Replace the drill bit.

9. SPECIFICATIONS

Feature	Specification
Model Number	20VDZ
Voltage	20 Volts
Battery Type	Lithium-polymer
Battery Capacity	2000 mAh
Max Torque	60 Nm
No-Load Speed (Speed 1)	0-500 RPM
No-Load Speed (Speed 2)	0-1850 RPM
Torque Settings	25 + 1 (Drill Mode)
Chuck Size	10mm (3/8")
Product Dimensions	29.2 x 27.3 x 8.8 cm
Product Weight	2.6 kg

10. WARRANTY AND SUPPORT

FAHEFANA products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your purchase or contact your retailer. Please have your model number (20VDZ) and purchase date available when contacting support.