DEWALT DWD112

DEWALT DWD112 8A 3/8" VSR Pistol-Grip Drill Instruction Manual

Model: DWD112

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DEWALT DWD112 8A 3/8" VSR Pistol-Grip Drill. Please read all instructions carefully before use to ensure proper handling and to prevent injury or damage.

General Safety Information

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Work Area Safety

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- 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 safety glasses or goggles.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

Product Components

Familiarize yourself with the main parts of your DEWALT DWD112 drill:

- **Keyless Chuck:** For quick and secure bit changes.
- **Variable Speed Trigger:** Controls the drilling speed.
- **Forward/Reverse Switch:** Changes the rotation direction.
- **Soft Grip Handle:** Provides comfort and control during operation.
- **Cord:** Power supply for the corded electric drill.



Figure 1: Front view of the DEWALT DWD112 Pistol-Grip Drill, highlighting the chuck and handle.



Figure 2: A user demonstrating the drill in operation, showing proper grip and positioning.

Setup and Bit Installation

Installing a Drill Bit

1. Ensure the drill is unplugged from the power source before installing or removing bits.
2. Grasp the rear half of the keyless chuck and rotate the front half counter-clockwise until the chuck jaws are open wide enough to accept the drill bit.
3. Insert the drill bit into the chuck jaws as far as it will go, ensuring it is centered.
4. Rotate the front half of the chuck clockwise while holding the rear half firmly. The chuck will ratchet to indicate the bit is securely tightened.
5. Pull on the bit to ensure it is firmly seated and will not slip during operation.

Operating Instructions

Powering On and Off

To start the drill, depress the variable speed trigger. To stop, release the trigger. The drill features a variable speed trigger allowing for precise control from 0 to 2,500 RPM.

Variable Speed Control

The speed of the drill is controlled by the amount of pressure applied to the trigger. A lighter press results in lower RPM, while a full press achieves maximum RPM (2,500 RPM). This allows for versatility in various drilling and fastening applications.

Forward/Reverse Operation

The forward/reverse switch, typically located above the trigger, allows you to change the direction of rotation. Push the switch to the left for forward rotation (drilling) and to the right for reverse rotation (removing screws or freeing a stuck bit). Always ensure the drill has come to a complete stop before changing direction.

Drilling Techniques

- **Material Compatibility:** This drill is suitable for drilling in wood (up to 1-1/8 inch with hole saw, 1 inch with spade bit) and steel (up to 3/8 inch).
- **Starting a Hole:** Begin drilling at a low speed to prevent the bit from wandering. Once the bit has started to penetrate the material, increase speed as needed.
- **Applying Pressure:** Apply steady, even pressure. Excessive pressure can cause the motor to overheat or the bit to break.
- **Cooling:** For prolonged drilling, especially in metal, periodically withdraw the bit to allow chips to clear and the bit to cool.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your DEWALT DWD112 drill.

Cleaning

- Keep the ventilation slots clean to prevent overheating. Use a dry cloth or soft brush to remove dust and debris.
- Do not use water or chemical cleaning agents.

Inspection

- Periodically inspect the power cord for damage. If damaged, have it repaired by a qualified service technician.
- Check the chuck for wear or damage. Replace if necessary.
- Ensure all external screws are tight.

Storage

Store the drill in a dry, secure location out of reach of children when not in use.

Troubleshooting

This section addresses common issues you might encounter with your drill.

Problem	Possible Cause	Solution
Drill does not start	No power supply; Damaged cord/plug; Faulty switch	Check power outlet; Inspect cord/plug for damage; Contact service center if switch is faulty.
Bit slips in chuck	Chuck not tightened sufficiently; Worn chuck jaws; Bit shank is dirty or damaged	Retighten chuck firmly; Clean bit shank; Replace chuck if worn.
Loss of power/Overheating	Overloading the drill; Blocked ventilation slots; Prolonged heavy use	Reduce pressure; Clear ventilation slots; Allow drill to cool down.
Excessive vibration	Bent drill bit; Loose chuck; Internal damage	Replace bent bit; Ensure chuck is tight; Contact service center.

Specifications

Key technical specifications for the DEWALT DWD112 drill:

Feature	Specification
Model Number	DWD112
Power Source	Corded Electric
Voltage	120 Volts
Amperage	8 Amps
Maximum Rotational Speed	2500 RPM
Chuck Size	3/8 inch (9.53 mm)
Chuck Type	Keyless, All-Metal, Ratcheting
Drilling Capacity (Wood)	1-1/8 inches (hole saw), 1 inch (spade bit)
Drilling Capacity (Metal)	3/8 inch (9.53 mm)
Item Weight	4.1 Pounds
Product Dimensions	10.81"L x 9.63"W x 3"H
Material	Metal

Warranty Information

The DEWALT DWD112 8A 3/8" VSR Pistol-Grip Drill is backed by a limited three-year warranty. Additionally, it includes a 90-day money-back guarantee and a one-year free service contract. For specific terms and conditions, please refer to the warranty card included with your product or visit the official DEWALT website.

Support and Service

For technical assistance, service, or to order replacement parts, please contact DEWALT customer service. You can find contact information on the official DEWALT website or in the documentation provided with your tool. When contacting support, please have your model number (DWD112) and serial number ready.

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