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Makita DS4012

Makita DS4012 Spade Handle Drill Instruction Manual

Model: DS4012

1. Introduction

This manual provides essential instructions for the safe and effective operation, maintenance, and troubleshooting of your Makita DS4012 Spade Handle Drill. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Makita DS4012 is a robust 1/2-inch variable speed spade handle drill designed for durability and extended tool life. It features heavy-duty industrial chuck for positive bit retention and is double insulated for user safety. This tool is ideal for tasks such as mixing drywall mud, plaster, and drilling large holes.



Figure 1: Makita DS4012 Spade Handle Drill, showing the main body, chuck, D-handle, and side handle.

2. Product Overview

The Makita DS4012 Spade Handle Drill is engineered for demanding applications, offering a blend of power, control, and ergonomic design.

Key Features:

- **Powerful 8.5 AMP Motor:** Delivers robust performance for both mixing and drilling tasks.
- **Variable Speed Control:** Offers a range of 0 - 600 RPM, allowing adaptation to various materials and applications.
- **Forward and Reverse Lever:** Provides convenient directional control for the operator.
- **Balanced Design:** Weighing approximately 6.2 lbs, the tool is designed to reduce operator fatigue during extended use.
- **360-Degree Rotating D-Handle:** Features 24 detent stops for multi-position operation, enhancing control and comfort.



Figure 2: Illustration of the 8.5 AMP motor armature, highlighting the powerful internal component of the drill.



Figure 3: Diagram illustrating the 360-degree rotation capability of the D-handle, indicating its multi-position operation.

3. Setup

3.1 Attaching Handles

The DS4012 comes with a D-handle and a side handle. Ensure both are securely attached before operation.

- **D-Handle:** Position the D-handle to your preferred angle. It can rotate 360 degrees with 24 detent stops. Tighten the securing bolt firmly.
- **Side Handle:** Thread the side handle into the designated port on the drill's gear housing. Tighten it securely to provide additional stability and control.

3.2 Installing Drill Bits or Mixing Paddles

The drill features a 1/2-inch industrial chuck for bit retention.

1. Ensure the drill is unplugged from the power source.
2. Open the chuck jaws by turning the chuck key counter-clockwise.
3. Insert the drill bit or mixing paddle shank into the chuck, ensuring it is centered and fully seated.
4. Tighten the chuck jaws by turning the chuck key clockwise. Ensure all three chuck key holes are tightened for maximum grip.
5. Remove the chuck key and store it in the onboard chuck key holder to prevent loss and accidental activation during operation.

4. Operating Instructions

4.1 Power Connection

Connect the drill to a suitable 127-volt power outlet. Ensure the power cord is free from damage and positioned to avoid tripping hazards.



Figure 4: The Makita DS4012 Spade Handle Drill resting on a wooden surface, with its power cord neatly coiled beside it.

4.2 Variable Speed Control

The drill features a variable speed trigger. The speed can be adjusted by the amount of pressure applied to the trigger. For precise control, especially when starting a hole or mixing, begin with light pressure for lower speeds and increase pressure for higher speeds, up to 600 RPM.

4.3 Forward and Reverse Operation

A lever located near the trigger controls the direction of rotation. Push the lever to the left for forward rotation (drilling/mixing) and to the right for reverse rotation (removing bits, backing out screws). Always ensure the drill has come to a complete stop before changing direction.

4.4 Drilling Applications

When drilling, apply steady, even pressure. Allow the drill to do the work. For larger holes, consider starting with a smaller pilot hole. Ensure the workpiece is securely clamped.



Figure 5: A user operating the Makita DS4012 drill to bore a hole into a wooden beam, demonstrating its drilling function.

4.5 Mixing Applications

For mixing tasks such as drywall mud or plaster, attach an appropriate mixing paddle. Start at a low speed to prevent splashing and gradually increase speed as the material begins to mix. Maintain a firm grip on both handles to control the torque.



Figure 6: A user kneeling and operating the Makita DS4012 drill with a mixing paddle in a bucket, demonstrating its use for mixing materials.



Figure 7: A user standing and operating the Makita DS4012 drill with a mixing paddle in a bucket, showcasing an ergonomic mixing posture.



Figure 8: Close-up view of the Makita DS4012 drill with a mixing paddle submerged in a bucket of material, illustrating the mixing process.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DS4012 drill.

- **Cleaning:** After each use, wipe down the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure ventilation openings are clear of dust and debris.
- **Chuck Inspection:** Periodically inspect the chuck jaws for wear or damage. Ensure they open and close smoothly.
- **Cord Inspection:** Regularly check the power cord for cuts, fraying, or other damage. Replace damaged cords immediately to prevent electrical hazards.
- **Storage:** Store the drill in a dry, secure location, out of reach of children and away from direct sunlight or extreme temperatures.

- **Carbon Brushes:** The motor uses carbon brushes. If the motor power decreases or sparks excessively, the carbon brushes may need replacement. This should be performed by a qualified service technician.

6. 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; Faulty switch	Check power outlet and cord; Consult a qualified technician for switch replacement.
Loss of power during operation	Overload; Worn carbon brushes	Reduce load; Have carbon brushes inspected and replaced by a technician.
Excessive sparking from motor	Worn carbon brushes; Dirty commutator	Have carbon brushes and commutator inspected by a technician.
Bit slips in chuck	Chuck not tightened sufficiently; Worn chuck jaws; Damaged bit shank	Ensure chuck is tightened using all three key holes; Replace worn chuck or bit.

7. Specifications

Feature	Specification
Model Number	DS4012
Power Source	Corded Electric
Voltage	127 Volts
Amperage	8.5 Amps
Maximum Rotational Speed	600 RPM
Maximum Chuck Size	13 Millimeters (1/2-inch)
Item Weight	7 Pounds (approximately 3.17 kg)
Product Dimensions	14"L x 4"W x 13"H (approximately 35.5cm x 10cm x 33cm)
Drilling Capacity (Wood)	1.5 Inches
Special Feature	Variable Speed

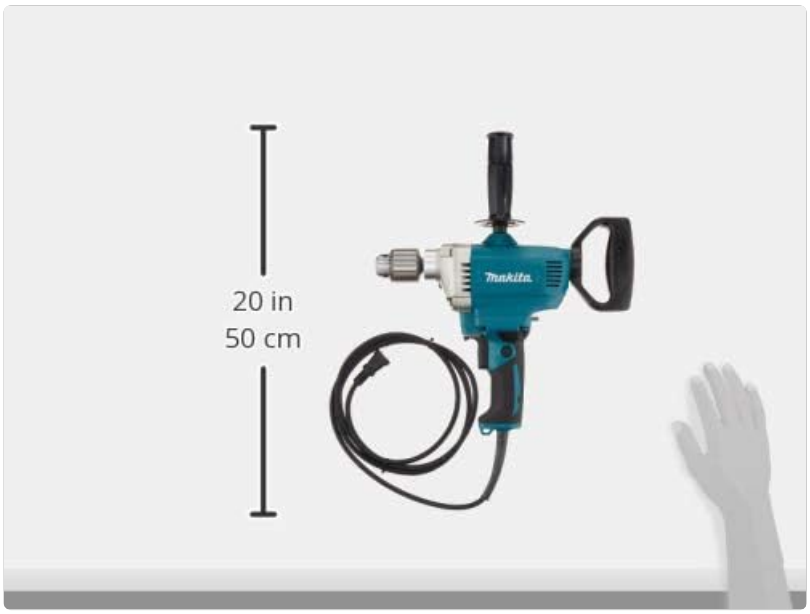


Figure 9: Diagram showing the approximate dimensions of the Makita DS4012 drill, indicating its length and height.

8. Warranty Information

The Makita DS4012 Spade Handle Drill is covered by a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship. For specific terms and conditions, please refer to the warranty card included with your product or contact Makita customer service.

9. Support and Contact

For further assistance, technical support, or to locate an authorized service center, please visit the official Makita website or contact their customer service department. Always provide your model number (DS4012) when seeking support.

Makita Official Website: www.makitatools.com

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