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› Makita DF333DZ 12V Max CXT 3/8" Driver Drill User Manual

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Brand: Makita | Model: DF333DZ

PRODUCT OVERVIEW

The Makita DF333DZ is a 12V max CXT Lithium-Ion 3/8" Driver-Drill designed for efficient drilling, driving, and fastening tasks. This tool-only model provides power and speed in a compact form factor, making it suitable for various applications, especially in tight spaces. It is part of the Makita 12V max CXT series, known for its superior ergonomics and compact size.



Front view of the Makita DF333DZ 12V Max CXT 3/8" Driver Drill.

Key Features

- **Improved Ball Bearing Anvil Holder:** Reduces bit wobbling and vibration for cleaner, more accurate drilling and fastening.
- **Variable 2-Speed Design:** Offers speeds of 0-450 RPM and 0-1,700 RPM, suitable for a wide range of drilling and driving applications.
- **High Torque Output:** Makita-built motor delivers up to 250 in. lbs. of Max Torque.
- **20 Clutch Settings + Drill Mode:** Provides precise control for various fastening tasks.
- **Variable Speed Trigger:** Allows operators to adjust speed based on the material or application.
- **LED Job Light:** Features pre-glow and after-glow to illuminate the work area.

IMPORTANT SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating this tool.

- **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 such as pipes, radiators, ranges, and refrigerators. Do not expose power tools to rain or wet conditions.
- **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 Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SETUP AND ASSEMBLY

Unpacking

Carefully remove the driver drill from its packaging. Inspect the tool for any damage that may have occurred during shipping. If any damage is found, do not operate the tool and contact your supplier immediately.

Battery Installation (Battery Sold Separately)

The Makita DF333DZ is a "tool only" product and requires a 12V max CXT Lithium-Ion battery (e.g., BL1041B) and a compatible charger, both sold separately. Ensure the battery is fully charged before first use.

1. Align the battery pack with the battery port on the bottom of the drill handle.
2. Slide the battery pack into the port until it clicks securely into place. Ensure it is fully seated to prevent accidental dislodgement during operation.
3. To remove the battery, press the release button(s) on the sides of the battery pack and slide it out of the tool.



The 12V max Lithium-Ion battery system, compatible with the DF333DZ driver drill.

Installing/Removing Drill Bits or Driver Bits

1. Ensure the tool is switched off and the battery pack is removed for safety.
2. Rotate the chuck counter-clockwise to open the chuck jaws.
3. Insert the drill bit or driver bit into the chuck as far as it will go.
4. Rotate the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped.
5. To remove, rotate the chuck counter-clockwise to loosen the jaws and pull the bit out.

OPERATING INSTRUCTIONS

Powering On/Off and Variable Speed Control

The tool is activated by pressing the trigger switch. The speed of the tool increases as you increase pressure on the trigger switch. To turn off the tool, release the trigger switch.

Adjusting Speed and Torque (Clutch Settings)

The DF333DZ features a 2-speed mechanical gear selection and 20 clutch settings plus a drill mode. The clutch settings allow you to adjust the torque for various fastening applications, preventing over-tightening or stripping screws. The drill mode provides maximum torque for drilling into materials.

- **Speed Selection:** Use the speed change lever located on top of the tool to select between high speed (2) for drilling and low speed (1) for heavy-duty driving or larger drilling diameters. Ensure the tool is stopped before changing speeds.
- **Clutch Ring:** Rotate the clutch ring to select the desired torque setting from 1 to 20. For drilling, rotate the ring to the drill symbol.



Close-up view of the 2-speed selector switch on the Makita DF333DZ.

Using the LED Job Light

The integrated LED job light illuminates the work area for improved visibility, especially in dimly lit conditions. It activates when the trigger switch is pressed and features a pre-glow and after-glow function.



The LED job light illuminates the work area for better visibility.

Drilling and Driving Applications

Always select the appropriate drill bit or driver bit for the material and application. Apply steady, even pressure when drilling or driving. For drilling into hard materials, start with a pilot hole if necessary.

12V max LITHIUM-ION

The DF333DZ being used to drill into a wooden surface.



The driver drill in action, drilling into a metal stud.

MAINTENANCE AND CARE

Regular maintenance ensures the longevity and optimal performance of your Makita driver drill. Always disconnect the battery pack before performing any maintenance.

Cleaning

- Wipe the tool body with a clean, damp cloth. Do not use strong solvents or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- Clean the chuck jaws regularly to ensure proper gripping of bits.

Storage

- Store the tool and battery pack in a cool, dry place, away from direct sunlight and moisture.
- Keep out of reach of children.
- If storing for extended periods, remove the battery pack from the tool.

TROUBLESHOOTING

If you encounter issues with your Makita DF333DZ, refer to the table below for common problems and their solutions. If the problem persists, contact a qualified service center.

Problem	Possible Cause	Solution
Tool does not start.	Battery not installed correctly or discharged.	Ensure battery is fully inserted. Charge battery if necessary.
Reduced power or speed.	Low battery charge; incorrect speed setting for task.	Recharge battery. Select appropriate speed (1 for high torque, 2 for high speed).
Bit wobbles in chuck.	Bit not inserted fully or chuck not tightened.	Re-insert bit fully and tighten chuck securely.
Tool overheats.	Overloading the tool; blocked ventilation.	Reduce load. Clear ventilation openings. Allow tool to cool.

PRODUCT SPECIFICATIONS

Feature	Value
Brand	Makita
Model Number	DF333DZ
Power Source	Battery Powered (12V Max CXT Lithium-Ion)
Maximum Rotational Speed	1,700 RPM (High Speed) / 450 RPM (Low Speed)
Maximum Chuck Size	3/8 inches (10 mm)
Maximum Torque	250 Inch Pounds

Feature	Value
Number of Speeds	2 (Mechanical)
Clutch Settings	20 + Drill Mode
Item Weight	2.38 pounds (without battery)
Product Dimensions	8.03"L x 2.91"W x 8.07"H
Material	Metal, Plastic
Included Components	12V MAX CXT 3/8" Driver Drill (Tool Only)
Drilling Capacity (Wood)	0.83 Inches
Drilling Capacity (Metal)	9.53 Millimeters

WARRANTY AND SUPPORT

Makita products are manufactured under strict quality control and inspection standards. This product is covered by Makita's standard warranty, which typically covers defects in materials and workmanship for a specified period from the date of purchase. Please refer to the warranty card included with your product or visit the official Makita website for detailed warranty terms and conditions.

For technical support, service, or to locate an authorized service center, please visit the official Makita website or contact their customer service department. When contacting support, please have your model number (DF333DZ) and purchase information ready.

You can find more information and products from Makita by visiting the [Makita Store on Amazon](#).