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Makita TD022DSE

Makita TD022DSE 7.2V Lithium-Ion Cordless 1/4" Hex Impact Driver Kit

Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita TD022DSE 7.2V Lithium-Ion Cordless 1/4" Hex Impact Driver Kit. Please read this manual thoroughly before using the tool and retain it for future reference.

The Makita TD022DSE is a compact and versatile 7.2V Lithium-Ion cordless 1/4" hex impact driver kit designed for precision fastening applications. It features two speed settings, variable speed control (0-2,450 RPM & 0-3,000 IPM), and a maximum torque of 220 in.Lbs. The tool can operate in both straight and pistol grip positions, offering flexibility for various tasks. Its lightweight design (1.2 lbs) and soft-grip handle enhance user comfort and control.



Figure 1: Makita TD022DSE Kit Contents
This image displays the complete Makita TD022DSE kit, including the impact driver, battery charger, two 7.2V Lithium-Ion 1.5Ah batteries, and a soft carrying case.

2. General Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

2.1 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. 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.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric

shock.

2.3 Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

2.4 Power 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.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.

2.5 Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

3. Package Contents

Your Makita TD022DSE kit includes the following items:

- Makita TD022DSE 7.2V Cordless 1/4" Hex Impact Driver
- Two (2) 7.2V Lithium-Ion 1.5Ah Batteries (BL0715)
- One (1) 7.2V - 12V max Lithium-Ion Charger (DC10WB)
- One (1) Tool Case (824842-6)
- Instruction Manual

4. Components Overview

Familiarize yourself with the main components of the Makita TD022DSE impact driver:

- **1/4" Hex Chuck:** For quick bit changes.
- **Trigger Switch:** Activates the tool and controls variable speed.

- **Forward/Reverse Switch:** Changes the direction of rotation.
- **LED Work Light:** Illuminates the work area.
- **Battery Pack:** Provides power to the tool.
- **Battery Release Button:** For removing the battery.
- **Handle:** Can be adjusted between pistol and straight grip positions.



Figure 2: Impact Driver in Pistol Grip
This image shows the Makita TD022DSE impact driver configured in the pistol grip position, highlighting its compact design.



Figure 3: Impact Driver in Straight Grip

This image illustrates the Makita TD022DSE impact driver extended into the straight grip position, suitable for different working angles.

5. Setup

5.1 Charging the Battery

1. Connect the charger (DC10WB) to a standard power outlet.
2. Insert the battery pack (BL0715) into the charger. Ensure it is fully seated.
3. The charging indicator light on the charger will show the charging status. Refer to the charger manual for specific light patterns.
4. Once charging is complete, remove the battery pack from the charger.

5.2 Installing and Removing the Battery

5.2.1 Installing the Battery

1. Align the battery pack with the battery port on the tool handle.
2. Slide the battery pack into the handle until it clicks securely into place. Ensure it is fully engaged to prevent it from falling out during operation.

5.2.2 Removing the Battery

1. Press the battery release button located on the side of the battery pack.
2. Slide the battery pack out of the tool handle.

5.3 Installing and Removing Bits

5.3.1 Installing a Bit

1. Pull the chuck sleeve forward.
2. Insert the 1/4" hex shank bit into the chuck as far as it will go.
3. Release the chuck sleeve. The bit should be securely locked in place. Tug on the bit to ensure it is properly seated.

5.3.2 Removing a Bit

1. Pull the chuck sleeve forward.
2. Remove the bit from the chuck.
3. Release the chuck sleeve.

6. Operating Instructions

6.1 Powering On/Off and Variable Speed Control

- To start the tool, pull the trigger switch.
- The tool's speed is variable; the further the trigger is pulled, the faster the tool operates.
- To stop the tool, release the trigger switch. The electric brake will engage, stopping the rotation quickly.

6.2 Forward/Reverse Switch

- The forward/reverse switch is located above the trigger.
- Push the switch to the left for forward rotation (for tightening screws).
- Push the switch to the right for reverse rotation (for loosening screws).
- When the switch is in the center position, the trigger is locked, preventing accidental startup. Always set the switch to the center position when not in use or when changing bits.

6.3 Operating Positions

The TD022DSE can be used in two main positions:

- **Pistol Grip:** Standard configuration for general driving tasks.
- **Straight Grip:** Extend the handle for screwdriver-like operation, ideal for tight spaces or when more linear force is desired. To change the grip, simply rotate the handle section until it locks into the desired position.



Figure 4: Adjustable Grip Positions

This image demonstrates the Makita TD022DSE's ability to switch between pistol and straight grip configurations for enhanced versatility.

6.4 Impact Mechanism

The impact mechanism engages automatically when resistance is met, providing additional torque to drive fasteners. This feature helps prevent cam-out and reduces user fatigue.

6.5 LED Work Light

The integrated LED work light illuminates the work area when the trigger is pulled, improving visibility in dimly lit conditions.



Figure 5: LED Work Light

A close-up view of the Makita TD022DSE's front, showing the integrated LED work light illuminating the area around the chuck.



Figure 6: Tool in Use (Electrical Box)
This image shows the Makita TD022DSE impact driver being used to fasten a screw into an electrical box, demonstrating its utility in confined spaces.



Figure 7: Tool in Use (Overhead)
The image depicts the Makita TD022DSE impact driver being used for an overhead fastening task, showcasing its ergonomic design for various applications.

7. Maintenance

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

7.1 Cleaning

- Always disconnect the battery pack before cleaning.
- Wipe the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.

7.2 Storage

- Store the tool and battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the battery is partially charged (around 50%) before long-term storage.
- Store the tool in its original carrying case to protect it from damage.

7.3 Battery Care

- Do not store battery packs in a discharged state. Recharge them promptly after use.
- Avoid exposing battery packs to water or high humidity.
- If a battery pack is damaged or no longer holds a charge, dispose of it properly according to local regulations. Do not incinerate battery packs.

8. Troubleshooting

If you encounter issues with your Makita TD022DSE, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged Battery not properly installed Forward/Reverse switch in center (lock) position	Charge the battery Reinstall battery securely Move switch to forward or reverse position
Reduced power/torque	Battery low on charge Incorrect bit for application Tool overheating	Recharge battery Use appropriate bit Allow tool to cool down; ensure ventilation is clear
Bit not holding securely	Chuck sleeve not fully released Incorrect bit type (not 1/4" hex)	Ensure chuck sleeve snaps back into place Use only 1/4" hex shank bits
Tool stops during operation	Battery protection activated (overload/overheat)	Release trigger, remove battery, allow tool and battery to cool. Reinsert battery and resume operation. If problem persists, contact service.

If the problem persists after attempting these solutions, contact Makita authorized service center for assistance.

9. Specifications

Technical specifications for the Makita TD022DSE 7.2V Lithium-Ion Cordless 1/4" Hex Impact Driver Kit:

Feature	Specification
Model Number	TD022DSE
Voltage	7.2 Volts
Battery Type	Lithium-Ion

Feature	Specification
Chuck Size	1/4" Hex
Maximum Rotational Speed	0-2,450 RPM
Impacts Per Minute (IPM)	0-3,000 IPM
Maximum Torque	220 Inch Pounds
Number of Speeds	2 (Variable)
Item Weight	2.2 pounds (1 Kilogram)
Product Dimensions (L x W x H)	12.09" x 3.82" x 9.61"
Power Source	Battery Powered
Special Feature	Variable Speed, Electric Brake, LED Work Light, Adjustable Grip

10. Warranty and Support

10.1 Warranty Information

The Makita TD022DSE Impact Driver Kit comes with a**3-year limited warranty** on the tool, battery, and charger. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
For full warranty details and conditions, please refer to the warranty card included with your product or visit the official Makita website.

10.2 Customer Support

For technical assistance, service, or to locate an authorized service center, please contact Makita customer support or visit their official website:

- **Makita Official Website:** www.makitatools.com
- Refer to the contact information provided in your product packaging for regional support details.

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