Makita DRV150Z

Makita DRV150Z 18V Li-ion LXT Brushless Rivet Gun User Manual

Model: DRV150Z

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DRV150Z 18V Li-ion LXT Brushless Rivet Gun. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.
The Makita DRV150Z is a powerful cordless rivet gun designed for professional use, offering high-speed tightening and compatibility with various blind rivet sizes.

2. Safety Information

Always observe basic safety precautions when using power tools 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.
- **Electrical Safety:** 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 the tool for extended periods. Dress properly; avoid loose clothing or jewelry.
- **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 Compatibility:** This tool is powered by 18V Li-ion LXT slide type batteries. It is **not compatible with G-Series batteries**. Use of non-genuine or incompatible batteries and chargers will invalidate the Makita guarantee.

3. Components and Features

Familiarize yourself with the main components and features of your Makita DRV150Z Rivet Gun.



Figure 3.1: Makita DRV150Z Rivet Gun with an 18V LXT battery attached. This image shows the overall design of the tool, including the handle, trigger, and the transparent mandrel container at the rear.



Figure 3.2: Makita DRV150Z Rivet Gun being used to install a rivet into a metal sheet. This demonstrates the tool's compact design and ease of handling during operation.

- **Brushless Motor:** Provides increased power, efficiency, and longer tool life.
- **Rivet Holding Mechanism:** Holds the rivet in place after installation, preventing it from dropping out.
- **Transparent Mandrel Container:** Allows for easy monitoring of spent mandrel accumulation.
- **Compact Design:** Short center height enables close-to-wall riveting and confined space operation.
- **Compatibility:** Supports blind rivets with diameters ranging from 2.4mm to 4.8mm.

4. Setup

Before operating the rivet gun, ensure it is properly set up.

1. **Battery Installation:**

Insert a charged 18V Li-ion LXT slide type battery into the battery receptacle until it clicks into place. Ensure the battery is securely latched. (Batteries and charger are not included with the tool.)

2. **Nose Piece Selection and Installation:**

   Select the appropriate nose piece for the diameter of the blind rivet you intend to use (2.4mm, 3.2mm, 4mm, or 4.8mm). Screw the selected nose piece firmly onto the tool's front end. A wide range of nose pieces and jaw pushers are available to accommodate various rivet sizes.

3. **Mandrel Container Check:**

   Verify that the transparent mandrel container is securely attached and empty before starting work. This container collects spent mandrels during operation.

5. Operation

Follow these steps for effective and safe operation of the Makita DRV150Z Rivet Gun.

1. **Insert Rivet:**

   Insert the blind rivet into the nose piece of the tool. The rivet holding mechanism will secure the rivet in place, preventing it from falling out even if the tool is pointed downwards.

2. **Position Tool:**

   Place the nose piece firmly against the workpiece, ensuring the rivet is properly aligned with the hole.

3. **Activate Tool:**

   Pull the trigger to activate the tool. The tool will pull the rivet mandrel, deforming the rivet and securing it in the workpiece. Continue holding the trigger until the rivet is fully set and the mandrel breaks off.

4. **Release Mandrel:**

   After the rivet is set and the mandrel breaks, release the trigger. The tool will automatically eject the broken mandrel into the transparent container.

5. **Repeat:**

   Repeat the process for subsequent rivets. Periodically check the mandrel container and empty it when full.

The tool delivers a pulling force of up to 10 kN and has a stroke of 25mm, ensuring efficient rivet installation.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your rivet gun.

- **Cleaning:** Regularly clean the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Mandrel Container:** Empty the transparent mandrel container frequently to prevent accumulation and ensure proper operation.
- **Nose Piece and Jaws:** Inspect the nose piece and internal jaws for wear or damage. Replace them as needed to maintain consistent riveting performance. Refer to the included accessory set for replacement parts.
- **Lubrication:** Apply a small amount of the included grease to moving parts as indicated in the detailed service manual (not provided here) or by a qualified service technician.
- **Storage:** Store the tool in a dry, secure place, out of reach of children. Remove the battery pack before storage.

7. Troubleshooting

This section addresses common issues you might encounter with your Makita DRV150Z Rivet Gun.

Problem	Possible Cause	Solution
Tool does not operate.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Rivet not setting properly.	Incorrect nose piece size; Worn jaws; Rivet too large for tool capacity.	Verify nose piece matches rivet diameter. Inspect and replace jaws if worn. Ensure rivet diameter is within 2.4mm-4.8mm range.
Mandrel not ejecting.	Mandrel container full; Obstruction in ejection path.	Empty mandrel container. Check for and remove any obstructions.
Tool overheating.	Continuous heavy use.	Allow the tool to cool down. Avoid prolonged continuous operation.

If problems persist, contact Makita customer support or an authorized service center.

8. Specifications

Key technical specifications for the Makita DRV150Z Rivet Gun.

- **Model:** DRV150Z
- **Power Source:** 18V Li-ion LXT Battery (not included)
- **Pulling Force:** 10 kN (Newton Meters)
- **Stroke:** 25mm
- **Compatible Rivet Diameters:** 2.4mm, 3.2mm, 4mm, 4.8mm
- **Item Weight:** 2.75 pounds
- **Product Dimensions:** 3.94"L x 3.94"W x 3.94"H
- **Special Feature:** Brushless Motor
- **Included Components:** 1 x Hook, 1 x Accessory set, 1 x Maktia DRV150Z, 1 x Grease
- **UPC:** 088381876445

9. Warranty and Support

Makita provides a manufacturer warranty for this product.

- **Manufacturer Warranty:** A 1-year manufacturer warranty is provided, with a further 2 years available when registered within 30 days of purchase.
- **Warranty Exclusions:** This guarantee does not apply where non-genuine or recommended parts or accessories are fitted to the tool. The use of non-genuine or compatible batteries and chargers with Makita tools will invalidate the Makita guarantee for our tools.
- **Customer Support:** For technical assistance, service, or warranty claims, please contact your local authorized Makita service center or visit the official Makita website.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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