Makita DUR181Z

Makita DUR181Z 18V Cordless Li-Ion Line String Trimmer Mower User Manual

Model: DUR181Z

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DUR181Z 18V Cordless Li-Ion Line String Trimmer. Please read this manual thoroughly before use and retain it for future reference.

Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This tool is designed for trimming grass and light weeds. Do not use it for any other purpose.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the tool.
- **Wear appropriate personal protective equipment (PPE):** Always wear eye protection, long pants, sturdy footwear, and hearing protection when operating the trimmer.
- **Keep area clear:** Ensure no bystanders, children, or pets are within the operating area. Maintain a safe distance from objects that could be struck by the cutting line.
- **Inspect the work area:** Before starting, remove any debris, rocks, wire, or other foreign objects that could be thrown or entangled in the cutting line.
- **Battery safety:** Use only Makita 18V Li-Ion batteries and chargers. Do not expose batteries to water, heat, or direct sunlight.
- **Avoid accidental starting:** Ensure the switch is in the OFF position before inserting the battery pack.
- **Maintain good footing and balance:** Do not overreach.
- **Do not operate in wet conditions:** Avoid using the trimmer in rain or damp environments.
- **Battery capacity warning lamp:** The lamp blinks red when battery power is nearly used up and turns solid red when battery power is fully depleted, indicating the battery protector will shut off power.

Product Components

The Makita DUR181Z string trimmer consists of several key components:

- **Motor Head:** Contains the cutting mechanism and line spool.
- **Shaft:** Telescopic pipe shaft, adjustable in length.
- **Loop Handle:** Adjustable for user comfort and posture.
- **Main Handle:** Contains the power switch and battery compartment.
- **Blade Cover/Guard:** Protects the user from debris and the cutting line.
- **Nylon Cord:** The cutting line.
- **Battery Compartment:** For 18V Li-Ion batteries (battery not included).



Figure 1: Overall view of the Makita DUR181Z Cordless String Trimmer.



Figure 2: Close-up of the adjustable loop handle and telescopic shaft.

Setup

1. Attaching the Blade Cover

Align the blade cover with the motor head and secure it using the provided fasteners. Ensure it is firmly attached before operation.

2. Installing/Removing the Battery

To install, slide the battery pack into the battery compartment until it locks into place. To remove, press the release button on the battery pack and slide it out.

3. Adjusting the Loop Handle

Loosen the knob on the loop handle and slide the handle to a comfortable position that suits your height and working posture. Tighten the knob securely.

4. Adjusting the Shaft Length

The telescopic pipe shaft is adjustable in length from 1,150mm to 1,330mm. Loosen the shaft locking mechanism, extend or retract the shaft to the desired length, and then securely tighten the mechanism.

5. Adjusting the Cutting Head Angle

The 5-position pivoting head allows adjustment of the cutting angle. Press the pivot button and adjust the head to the desired angle for trimming in various areas, including tight spaces or under benches. Release the button to lock the head in position.



Figure 3: The cutting head with protective guard.

Operating Instructions

1. Starting and Stopping

- **To Start:** Ensure the battery is installed. Press the lock-off button and then pull the switch trigger.
- **To Stop:** Release the switch trigger.

2. Trimming Operation

Hold the trimmer firmly with both hands. Maintain a comfortable and balanced stance. Swing the trimmer from side to side, cutting small amounts of grass with each pass. Avoid attempting to cut too much at once, which can strain the motor.

3. Bump and Feed Cord System

The trimmer features a single-cord bump and feed system. To advance the nylon cord, gently tap the bump feed button on the ground while the trimmer is running. The cord will automatically extend. The spool assembly is designed for easy attachment, removal, and rewinding.

4. Edging Function

The trimmer can be used for edging. Adjust the cutting head angle to a vertical position. Walk along the edge of your lawn or pathway, guiding the trimmer to create a clean, defined edge.



Figure 4: Demonstrating the edging function along a pathway.

Maintenance

1. Cleaning

After each use, remove the battery and clean the trimmer. Wipe down the exterior with a damp cloth. Remove any grass clippings or debris from the cutting head and guard. Do not use harsh chemicals or abrasive cleaners.

2. Replacing the Nylon Cord

When the nylon cord becomes too short or breaks, it needs to be replaced. Refer to the instructions provided with replacement spools for proper winding and installation. The spool assembly is designed for easy rewinding.

3. Storage

Store the trimmer in a dry, secure location out of reach of children. Remove the battery pack before storing for extended periods. Protect the tool from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Trimmer does not start	Battery not inserted correctly; Battery discharged; Lock-off button not pressed; Tool malfunction.	Ensure battery is fully seated; Charge battery; Press lock-off button before pulling trigger; Contact service center.
Cutting line does not advance	Line tangled or jammed; Insufficient line on spool; Incorrect bump technique.	Remove battery, clear obstruction; Rewind or replace line spool; Tap bump button firmly on ground while running.
Reduced cutting performance	Dull or worn line; Battery low; Cutting too much material at once.	Advance or replace line; Charge battery; Cut smaller sections.
Battery warning lamp is solid red	Battery power used up (battery protector activated).	Recharge the battery.

Specifications

Feature	Specification
Model Number	DUR181Z
Voltage	18V
No Load Speed	7,800 rpm
Cord Feed System	Bump & Feed (Single Cord)
Nylon Cord Diameter	1.65mm
Nylon Cord Length	8m
Cutting Width	260mm

Feature	Specification
Shaft Adjustable Range	180mm (1,150mm to 1,330mm total length)
Net Weight	2.5kg (5.5 lbs)
Product Dimensions	48.62 x 5.12 x 9.45 inches

Warranty and Support

For warranty information, service, or technical support, please refer to the documentation included with your purchase or visit the official Makita website. Keep your proof of purchase for warranty claims.
Makita offers various protection plans for extended coverage. Please check with your retailer or Makita's official channels for details on available plans.
For further assistance, you may contact Makita customer service through their official website or authorized service centers.

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