

Mellif MFSS03-12

Mellif MFSS03-12 12-inch Cordless Brushless Snow Shovel User Manual

Model: MFSS03-12

Brand: Mellif

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Mellif MFSS03-12 12-inch Cordless Brushless Snow Shovel. Please read all instructions carefully before use and retain this manual for future reference. This electric snow shovel is designed for clearing snow from driveways, sidewalks, and patios.

2. IMPORTANT SAFETY INFORMATION

WARNING: Always handle the machine with care, especially on slippery surfaces. Wear appropriate protective gear, including gloves and eye protection, during operation.

- Read and understand all instructions before operating the snow shovel.
- Keep hands, feet, and clothing away from moving parts.
- Ensure the work area is clear of debris, rocks, and other objects that could be thrown by the machine.
- Do not operate the snow shovel on gravel surfaces, as this can damage the unit and throw debris.
- Always maintain a firm grip on the handles.
- Do not overreach. Maintain proper footing and balance at all times.
- Do not allow children or untrained individuals to operate the snow shovel.
- Store the snow shovel in a dry, secure location away from children.
- Use only Mellif-approved batteries and chargers.

3. PRODUCT FEATURES

- **12-inch Clearing Width:** Efficiently clears snow up to 12 inches wide and 6 inches deep in a single

pass.

- **Brushless Motor:** Features a 2400 RPM brushless motor with 14.4V low voltage protection, enhancing battery life and machine service time.
- **Makita 18V Battery Compatibility:** Designed to be compatible with Makita 18V batteries. Includes a Mellif 4.0 Ah battery and rapid charger.
- **Adjustable Snow Deflector:** Easily adjust the snow deflector with a range of $\pm 30^\circ$ to direct snow.
- **Ergonomic Design:** Equipped with an ergonomically designed assist handle for better balance and comfort.
- **Low-Temperature Reliability:** The Mellif 18V battery is tested to remain functional at -4°F (-20°C).
- **Lightweight and Detachable:** Weighs only 9.6 lbs (tool only) and features a detachable design for easy storage.

4. PACKAGE CONTENTS

- Mellif MFSS03-12 Brushless Snow Shovel Unit
- Adjustable Front Handle
- Mellif 4.0 Ah 18V Battery (10C/40Amps high output)
- Mellif 4.0 Rapid Charger
- User Manual

5. SETUP AND ASSEMBLY

5.1 Assembly

The Mellif snow shovel is designed for quick and easy assembly. Simply connect the handle pieces and tighten them by hand. Ensure all connections are secure before use.

17ft

Throws up to
Aim snow where you want

4°

Adjustable Snow Discharge Direction -/+ 30°



Figure 1: Mellif Snow Shovel components ready for assembly. The main unit, handle, and battery are shown.

Gift

Make Winter Easier for the
Ideal gift for parents & Friends



Ideal gift for parents & Friends - Ones You Love



Figure 2: Fully assembled Mellif Snow Shovel, ready for use. The ergonomic handle and main clearing unit are connected.

5.2 Battery Installation and Charging

Insert the Mellif 4.0 Ah battery into the designated slot on the handle unit until it clicks into place. To charge the battery, connect it to the provided Mellif 4.0 Rapid Charger. The charger will indicate when the battery is fully charged.

-20 °C

Works Reliably in Extreme

Cold - 20°C / -4°F

Stable motor output in freezing temps



Figure 3: Mellif 18V battery and rapid charger. The battery slides into the charger for power replenishment.

The Mellif snow shovel is compatible with Makita 18V batteries. If using a Makita battery, ensure it is fully charged using a Makita-compatible charger. Note that the included Mellif battery may not be compatible with Makita chargers.

5.3 Handle and Deflector Adjustment

Adjust the assist handle to a comfortable position for optimal balance and reduced strain during operation. The snow deflector can be adjusted $\pm 30^\circ$ to control the direction of snow discharge. This adjustment is typically made via a lever or knob on the deflector unit.

COMPATIBLE WITH MAKITA 18V BATTERY



Low Voltage Protection



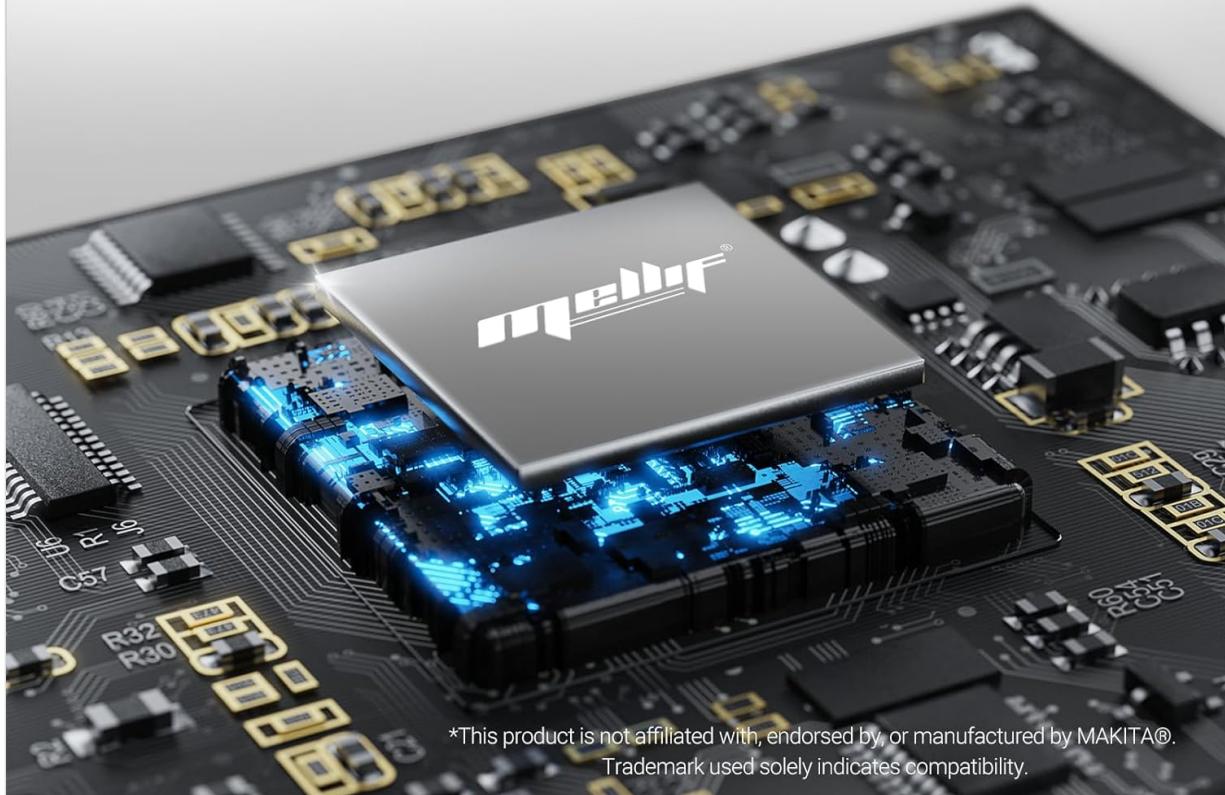
Overcurrent Protection



Overheat Protection



Overload Protection



*This product is not affiliated with, endorsed by, or manufactured by MAKITA®.
Trademark used solely indicates compatibility.

Figure 4: Close-up of the adjustable snow deflector. The red lever allows users to change the snow throwing direction.

6. OPERATING INSTRUCTIONS

6.1 Starting and Stopping

To start the snow shovel, ensure the battery is installed and fully charged. Press the safety button (usually located on the main handle) and then squeeze the trigger. To stop, release the trigger.



Figure 5: User operating the Mellif Snow Shovel, demonstrating the ergonomic handle and trigger mechanism.

6.2 Snow Clearing Techniques

- For optimal performance, clear snow in passes up to 12 inches wide and 6 inches deep.
- For deeper or wet, heavy snow, it may be necessary to make multiple passes or reduce the width of each pass.
- Adjust the deflector to throw snow away from cleared areas or desired locations.
- Avoid pushing the unit too hard into deep snow, as this can reduce efficiency and strain the motor.
- Be mindful of the throwing distance (up to 17 feet) to avoid throwing snow onto unwanted areas.

30%

Brushless Motor

Longer Runtime



Work longer with less fatigue-Reduce working hours by 25%



Figure 6: Visual representation of the snow shovel's 12-inch clearing width and 6-inch clearing depth capabilities.

17ft

Throws up to
Aim snow where you want

4°

Adjustable Snow Discharge Direction -/+ 30°



Figure 7: The snow shovel in action, demonstrating its ability to throw snow up to 17 feet away from the clearing path.

6.3 Official Product Videos

Watch these official videos for a visual guide on assembly and operation:

Mellif Snow Blower Shovel Quick Demo in Action!

Your browser does not support the video tag.

This video provides a quick demonstration of the Mellif Snow Blower Shovel in action, showcasing its snow-clearing capabilities.

12in battery powered snow shovel

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A short video demonstrating the 12-inch battery-powered snow shovel's operation and effectiveness.

12in brushless snow blower

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This video highlights the brushless motor of the 12-inch snow blower and its performance.

First Look and Set Up For Winter!! Quick Overview!!

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A comprehensive first look and setup guide for the Mellif Snow Shovel, preparing it for winter use.

Mellif Snow Blower Demo in Heavy Wet Snow! Quick Overview!

Your browser does not support the video tag.

Demonstration of the Mellif Snow Blower's performance in challenging heavy, wet snow conditions.

Brushless Snow Shovel with battery 18v

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A brief video showcasing the 18V brushless snow shovel and its battery power.

Brushless Snow Shovel with battery

Your browser does not support the video tag.

Another demonstration of the brushless snow shovel's battery-powered operation.

7. MAINTENANCE

- **Cleaning:** After each use, remove any snow, ice, or debris from the unit. Use a damp cloth to wipe down surfaces. Do not use harsh chemicals.
- **Storage:** Store the snow shovel in a dry, protected area. The detachable design allows for compact storage. Remove the battery before storing for extended periods.
- **Battery Care:** Keep batteries charged, especially during off-season storage. Store batteries in a cool, dry place.

8. TROUBLESHOOTING

- **Unit not starting:**
 - Ensure the battery is fully charged and properly inserted.
 - Verify the safety button is pressed before squeezing the trigger.
 - Check for any obstructions in the auger.
- **Reduced performance:**
 - Battery may be low on charge.
 - Snow may be too deep or wet for a single pass; try reducing pass width.
 - Check for debris or ice buildup in the auger or chute.
- **Unusual noise or vibration:**

- Immediately stop the unit and inspect for loose parts or damage.
- Check for foreign objects caught in the auger.

9. SPECIFICATIONS

Feature	Specification
Brand	Mellif
Model Number	MFSS03-12
Power Source	Battery Powered (18V DC)
Motor Type	Brushless
Clearing Width	12 Inches
Ideal Snow Depth	6 Inches
Throwing Distance	Up to 17 feet
Item Weight (Tool Only)	9.6 lbs (5.6 Kilograms)
Product Dimensions	7.5"D x 12.8"W x 55"H
Battery Compatibility	Makita 18V Batteries
Low Temperature Operation	Functional at -4°F (-20°C)
UPC	739608069651

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product or contact Mellif customer service directly. Keep your purchase receipt as proof of purchase.