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LMFLXOFD Mini Angle Grinder

LMFLXOFD Mini Angle Grinder 16.8V User Manual

Model: Mini Angle Grinder | Brand: LMFLXOFD

1. INTRODUCTION

Thank you for choosing the LMFLXOFD Mini Angle Grinder. This cordless tool is designed for various applications including cutting, grinding, and polishing of metal and stone. Featuring a powerful 16.8V motor and an ergonomic design, it offers efficient and comfortable operation. Please read this manual thoroughly before use to ensure safe and optimal performance of your angle grinder.



Figure 1: LMFLXOFD Mini Angle Grinder and included accessories.

2. SAFETY INSTRUCTIONS

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

- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Wear Hearing Protection:** Use earplugs or earmuffs during operation.
- **Wear Gloves:** Protective gloves are recommended, especially when handling materials that produce sparks.
- **Secure Workpiece:** Always clamp or secure the workpiece to prevent movement during operation.
- **Maintain a Clean Work Area:** Cluttered areas invite accidents.
- **Avoid Dangerous Environments:** Do not use power tools in damp or wet locations, or expose them to rain.
- **Keep Children Away:** All visitors should be kept at a safe distance from the work area.
- **Dress Properly:** Do not wear loose clothing or jewelry. Contain long hair.
- **Use the Right Tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Disconnect Power:** Always remove the battery pack before making any adjustments, changing

accessories, or storing the tool.

- **Inspect Tool:** Before each use, check for damaged parts. Do not use if the switch does not turn it on and off.
- **Use Proper Accessories:** Consult the instruction manual for recommended accessories.
- **Never Touch Rotating Parts:** Keep hands and fingers away from the cutting disc during operation.



Figure 2: Always wear appropriate personal protective equipment when operating the angle grinder.

3. PACKAGE CONTENTS

Upon opening the package, verify that all items listed below are present and undamaged:

- Mini Angle Grinder Unit
- 16.8V Lithium Battery (1 or 2 depending on variant)
- Battery Charger
- Screwdriver (for disc changes)
- Cutting Disc (1 included)



Figure 3: Included components of the Mini Angle Grinder kit.

4. PRODUCT FEATURES

The LMFLXOFD Mini Angle Grinder is engineered with the following key features:

- **Powerful Brushless Motor:** Delivers up to 19500 RPM for efficient material removal.
- **Ergonomic Design:** Compact body and soft rubber handle for comfortable, single-handed operation and reduced fatigue.
- **Quick Disc Replacement:** Humanized spindle lock for easy and fast changing of grinding discs.
- **Side Toggle Switch:** Features an automatic locking start switch for convenient operation.
- **Versatile Applications:** Suitable for cutting, polishing, and grinding various materials like metal and stone.
- **Safety Cover:** Rotating protective cover for user safety during operation.

SPECIFICATIONS

**Sawblade
diameter=76mm, bore=10mm**

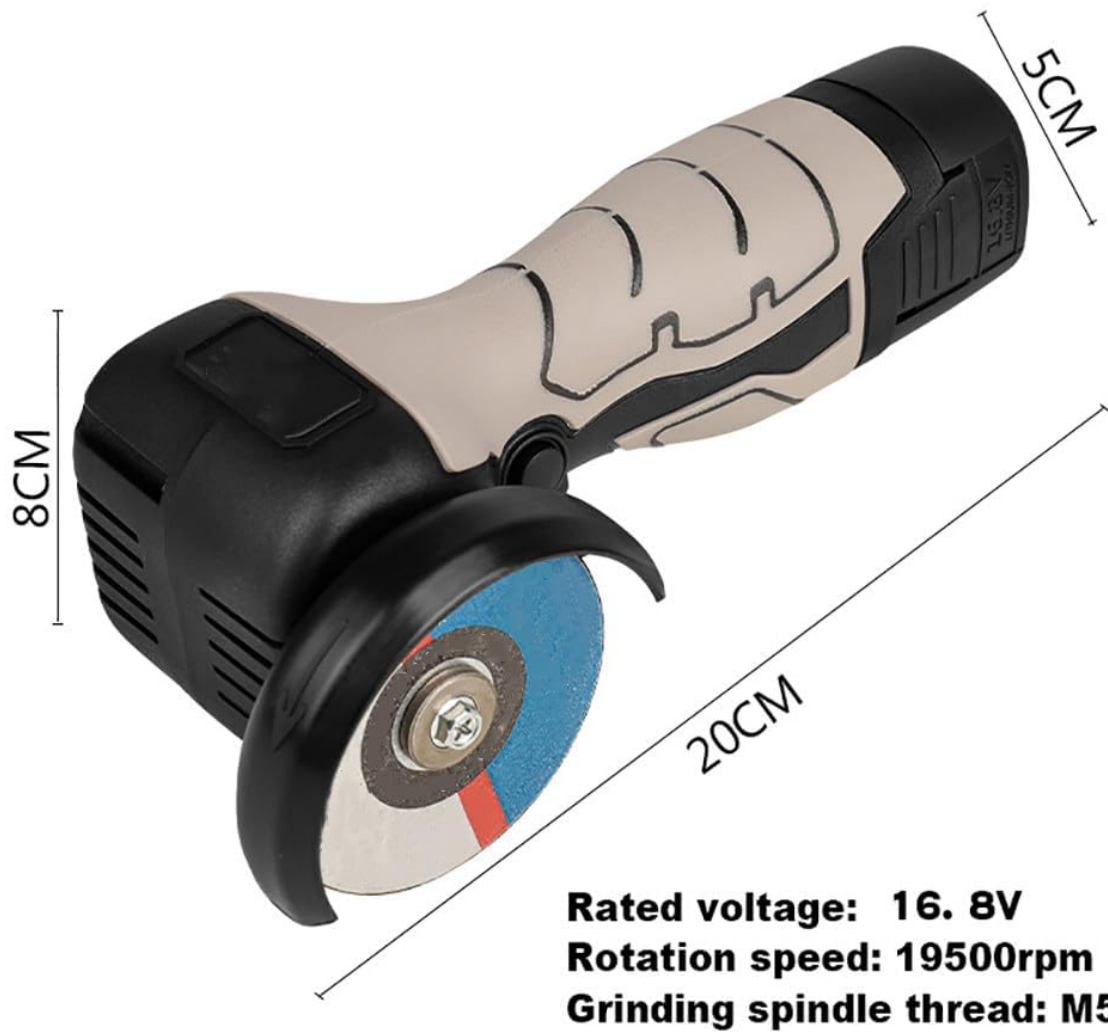


Figure 4: Key components and features of the angle grinder.

BRUSH MOTOR

quick starts, timely braking

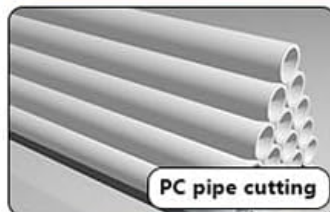


HIGH ROTATIONAL 19500RPM

WHICH CAN PROVIDES MORE
STRONG POWER

METAL PROTECTIONS COVER

IT CAN BE USED WITH DIFFERENT ACCESSORIES



PC pipe cutting



Cutting wooden blocks



Wood polishing



Iron pipe cutting

Figure 5: Brushless motor and examples of material applications.

5. SETUP

5.1 Charging the Battery

1. Connect the charger to a standard power outlet.
2. Insert the battery pack into the charger. Ensure it is seated correctly.
3. Allow the battery to charge fully before first use. The charger indicator light will typically change color or turn off when charging is complete.

5.2 Installing/Replacing the Cutting Disc

Always ensure the battery is removed from the grinder before changing discs.

1. Press and hold the spindle lock button located on the grinder head.
2. Using the provided screwdriver or wrench, loosen and remove the saw blade fastening bolt.
3. Carefully remove the old cutting disc (if applicable).
4. Place the new cutting disc onto the spindle, ensuring it is centered and flush.
5. Re-attach and tighten the saw blade fastening bolt while holding the spindle lock button. Ensure the disc is securely fastened but do not overtighten.

19500RPM

ELECTRIC GRINDING TOOL



DOUBLE REDUCTION

ROTATING PROTECTIVE COVER TO PROTECT ONESELF



Figure 6: Steps for replacing the cutting disc.

5.3 Attaching the Battery

1. Align the battery pack with the base of the grinder handle.
2. Slide the battery into place until it clicks securely.
3. To remove, press the battery release button (if present) and slide the battery out.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

1. Ensure the battery is fully charged and securely attached.
2. To start the grinder, press the side toggle switch forward until it locks into the "ON" position.
3. To stop the grinder, press the side toggle switch backward to the "OFF" position.

19500RPM

ELECTRIC GRINDING TOOL



DOUBLE REDUCTION

ROTATING PROTECTIVE COVER TO PROTECT ONESELF



Figure 7: Operating the side toggle switch.

6.2 General Operation Tips

- Allow the grinder to reach full speed before contacting the workpiece.
- Apply light, even pressure. Do not force the tool, as this can lead to overheating and reduced performance.
- For cutting, make shallow passes rather than attempting to cut through thick material in one go.
- For grinding and polishing, move the tool consistently across the surface to achieve an even finish.
- Always direct sparks away from yourself and flammable materials.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder.

- **Cleaning:** After each use, disconnect the battery and use a dry cloth or soft brush to remove dust and debris from the tool's vents and housing. Do not use water or chemical cleaners.
- **Disc Inspection:** Regularly inspect cutting and grinding discs for wear, cracks, or damage. Replace worn or damaged discs immediately.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods. Charge them periodically if not in use.
- **Storage:** Store the grinder and accessories in a dry, secure location, out of reach of children.

8. TROUBLESHOOTING

If you encounter issues with your angle grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Grinder does not start.	Battery not charged or not properly inserted.	Ensure battery is fully charged and securely attached.
Reduced power or speed.	Low battery charge; excessive pressure applied.	Recharge battery; reduce pressure on workpiece.
Excessive vibration.	Disc improperly installed or damaged.	Check disc installation; replace damaged disc.
Tool overheats.	Continuous heavy use; blocked ventilation.	Allow tool to cool; clear ventilation openings.

If the problem persists after attempting these solutions, please contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model	Mini Angle Grinder
Power	550W
Battery Voltage	16.8V Lithium
Rotation Speed	19500 RPM
Saw Blade Diameter	76mm
Spindle Thread	M5

Feature	Specification
Dimensions (approx.)	28 x 8 x 5 cm (11.02 x 3.15 x 1.97 inches)
Item Weight	3.52 pounds (approx.)

CONVENIENCE SIDE TOGGLE SWITCH

ERGONOMIC HANDLE DESIGN, SINGLE HANDED OPERATION. SIDE SELF-LOCKING START SWITCH FOR EASY GRASPING AND USE



PRESS AND HOLD
SELF-LOCKING



START SWITCH



REPLACING THE GRINDING DISC

EASY TO SWAP GRINDING DISCS WITH
THE HUMANIZED DESIGN SPINDLE LOCK



Figure 8: Detailed product specifications and dimensions.

10. WARRANTY AND SUPPORT

For any questions regarding your LMFLXOFD Mini Angle Grinder, including operational issues, missing parts, or warranty claims, please contact the seller directly. Our team is committed to providing support and will respond to inquiries within 24 hours to assist in resolving any concerns you may have.