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LEZYNE 1-FP-MAFL-V147

LEZYNE Macro Floor Drive High Pressure Bicycle Floor Pump

Model: 1-FP-MAFL-V147

INTRODUCTION

The LEZYNE Macro Floor Drive is a high-quality, durable floor pump designed for efficient and accurate inflation of bicycle tires, particularly for road and track bikes. Its robust construction and precise analog gauge ensure reliable performance for years to come. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your pump to ensure optimal performance and longevity.





Figure 1: The LEZYNE Macro Floor Drive High Pressure Bicycle Floor Pump, showcasing its sleek design and integrated gauge.

PRODUCT FEATURES

The Macro Floor Drive pump is engineered with several key features to enhance your tire inflation experience:

- **Reliable High Pressure Floor Pump:** Built with a composite matrix base for stability and durability.
- **Durable Steel Barrel and Piston:** Ensures long-term reliability and consistent performance.
- **Ergonomic Composite Matrix Handle:** Provides a comfortable and secure grip during use.
- **Extra-Long, High-Strength Hose:** Offers extended reach for convenient inflation, even when the bike is on a stand or rack.
- **Highly Accurate 2.5" Analog Gauge:** Calibrated in-house for precise pressure readings up to 220 PSI (15.2 bar).
- **ABS Flip Chuck or Dual Valve Pump Head:** Compatible with both Presta and Schrader valves, with an air bleed system for fine pressure adjustments.
- **Optimized for Road and Track Bikes:** Designed to achieve high pressures with minimal pumping effort.

MACRO FLOOR DRIVE

- Reliable high pressure bike floor pump
- Composite matrix base
- Durable steel barrel and piston
- Ergonomic composite matrix handle
- Extra-long, high-strength hose
- Highly accurate 2.5" Analog Gauge (220psi/15.2bar)
- ABS Flip Chuck: Presta/Schrader compatible



Figure 2: Key features of the Macro Floor Drive pump, highlighting its robust construction and user-friendly design.

COMPONENTS OVERVIEW

Familiarize yourself with the main components of your LEZYNE Macro Floor Drive pump:

- **Handle:** Ergonomically designed for comfortable pumping.
- **Barrel:** The main body of the pump containing the piston.
- **Hose:** Connects the pump to the tire valve.
- **Gauge:** Displays the current tire pressure.
- **Base:** Provides stability during operation.
- **ABS Flip Chuck:** The valve connector, compatible with Presta and Schrader valves.





Figure 3: A side view of the pump, illustrating the hose and gauge placement.

SETUP

Your LEZYNE Macro Floor Drive pump comes ready for use with minimal setup required.

Unpacking

Carefully remove the pump from its packaging. Inspect for any visible damage. The pump is designed for immediate use out of the box.

Understanding the ABS Flip Chuck

The ABS (Air Bleed System) Flip Chuck is a versatile connector designed for both Presta and Schrader valves. It features a threaded connection for secure attachment and a bleed button for precise pressure adjustments.



Figure 4: Close-up of the ABS Flip Chuck, showing the Presta and Schrader ends.

ABS FLIP CHUCK

PRESTA COMPATIBLE

Easy fit and removal

AIR BLEED SYSTEM

Allows for fine adjustments to tire pressure

SECURE ATTACHMENT

Simple, secure, and airtight threaded connection

SCHRADER COMPATIBLE

Easy fit and removal



Figure 5: Diagram illustrating the features of the ABS Flip Chuck, including Presta/Schrader compatibility, secure attachment, and air bleed system.

- **Presta Compatible:** The narrower end of the chuck is designed for Presta valves.
- **Schrader Compatible:** The wider end of the chuck is designed for Schrader valves.
- **Air Bleed System:** A small button on the chuck allows you to release air for fine-tuning tire pressure.
- **Secure Attachment:** The threaded design ensures an airtight connection to the valve.

OPERATING INSTRUCTIONS

Follow these steps to effectively inflate your bicycle tires using the LEZYNE Macro Floor Drive pump.

1. Preparing the Tire Valve

1. For **Presta valves**, unscrew the valve core locknut counter-clockwise until it is loose. Press down briefly on the valve stem to release a small amount of air and ensure it is not stuck.
2. For **Schrader valves**, no special preparation is usually needed, but ensure the valve cap is removed.

2. Connecting the ABS Flip Chuck

1. Identify the correct end of the ABS Flip Chuck for your valve type (Presta or Schrader).
2. Thread the appropriate end of the chuck onto the tire valve by turning it clockwise until it is securely attached and airtight. Do not overtighten.



Figure 6: The ABS Flip Chuck securely connected to a bicycle tire valve, ready for inflation.

3. Inflating the Tire

1. Place the pump's base firmly on the ground and hold the handle with both hands.
2. Use smooth, full strokes to pump air into the tire. Push the handle down completely and pull it up fully for maximum efficiency.

4. Monitoring Pressure with the Analog Gauge

1. Observe the analog gauge located at the base of the pump. It will display the current tire pressure as you inflate.
2. Inflate the tire to the recommended PSI (Pounds per Square Inch) or BAR (Barometric Pressure) as specified on your tire's sidewall.
3. If you overinflate, press the air bleed button on the ABS Flip Chuck to release small amounts of air until the desired pressure is reached.

5. Disconnecting the Chuck

1. Once the desired pressure is achieved, unscrew the ABS Flip Chuck from the tire valve by turning it counter-clockwise.
2. For Presta valves, remember to tighten the valve core locknut clockwise after disconnecting the pump.
3. Replace the valve cap if applicable.

MAINTENANCE

Proper maintenance will extend the life and performance of your LEZYNE Macro Floor Drive pump.

- **Cleaning:** Wipe down the pump's barrel and hose with a damp cloth after use to remove dirt and grime. Avoid using harsh chemicals.
- **Storage:** Store the pump in a dry, clean environment, away from extreme temperatures and direct sunlight. Ensure the hose is neatly stored in its designated clip.
- **Lubrication:** Periodically, a small amount of silicone-based lubricant can be applied to the piston shaft (inside the barrel) to ensure smooth operation. Consult LEZYNE's official support for specific recommendations.
- **Check for Wear:** Regularly inspect the hose and chuck for any signs of cracks, fraying, or damage. Replace components if necessary.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Pump not inflating tire / No air coming out.	Chuck not securely attached; Valve core stuck (Presta); Damaged pump seal/piston.	Ensure chuck is fully threaded onto valve. For Presta, briefly depress valve core. Check pump for internal damage; contact support if needed.
Air leaks from chuck connection.	Chuck not fully tightened; Worn O-rings in chuck.	Tighten chuck more securely. Inspect and replace O-rings if worn.
Gauge not reading pressure.	Chuck not properly connected; Gauge malfunction.	Ensure chuck is securely attached. If problem persists, contact LEZYNE support.
Difficulty pumping / Stiff operation.	Lack of lubrication; Internal debris.	Apply silicone-based lubricant to piston shaft. Inspect for and remove any debris.

SPECIFICATIONS

Detailed technical specifications for the LEZYNE Macro Floor Drive High Pressure Bicycle Floor Pump:

Attribute	Value
Model Number	1-FP-MAFL-V147
Brand	LEZYNE
Pump Type	High Pressure Floor Pump
Maximum Pressure	220 PSI (15.2 bar)

Attribute	Value
Gauge Type	2.5" Analog
Chuck Type	ABS Flip Chuck or Dual Valve
Valve Compatibility	Presta, Schrader (and Dunlop for Dual Valve option)
Base Material	Composite Matrix
Handle Material	Composite Matrix
Barrel Material	Steel
Piston Material	Steel
Weight	1225g (2.7 lbs)
Dimensions (H x W x D)	646mm x 248.3mm x 195.9mm (approx. 25.4 x 9.8 x 7.7 inches)

WARRANTY AND SUPPORT


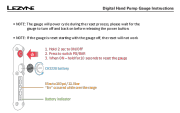
LEZYNE products are manufactured to the highest quality standards. For detailed warranty information, product registration, or technical support, please visit the official LEZYNE website or contact their customer service directly. Keep your proof of purchase for warranty claims.


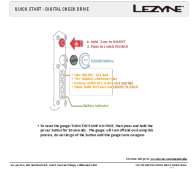
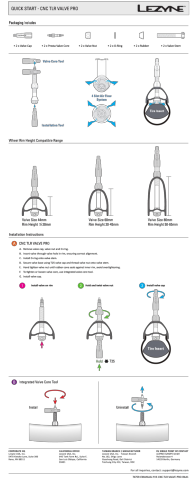

For further assistance, you may visit the [LEZYNE Store on Amazon](#).

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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - 1-FP-MAFL-V147

	<p>Lezyne Gauge Drive Series Quick Start Guide: Inflate Tires Easily</p> <p>Concise instructions for using the Lezyne Gauge Drive Series bicycle pump with Presta and Schrader valves. Learn how to attach the hose, inflate tires, and use the ABS button for pressure release and adjustment.</p>
	<p>Lezyne Digital Hand Pump Gauge Instructions</p> <p>Concise instructions for operating and resetting the Lezyne Digital Hand Pump Gauge, detailing button functions, pressure limits, and error indicators.</p>

	<p>Lezyne Year 7 Catalog: High-Performance Cycling Accessories</p> <p>Explore the comprehensive 2014 Lezyne Year 7 catalog, featuring innovative LED lights, high-performance floor pumps, hand pumps, CO2 inflators, bottle cages, shop tools, multi-tools, tire repair kits, and organizers designed for cyclists.</p>
	<p>Lezyne Digital Check Drive Quick Start Guide</p> <p>Concise quick start guide for the Lezyne Digital Check Drive tire pressure gauge, detailing operation, battery information, and reset procedures.</p>
	<p>Lezyne CNC TLR Valve Pro Quick Start Guide</p> <p>Installation and usage guide for the Lezyne CNC TLR Valve Pro tubeless valve stems, detailing packaging, compatibility, and step-by-step installation instructions.</p>
	<p>Lezyne LED Bike Lights User Manual: Macro Drive, Lite Drive, Micro Drive</p> <p>Comprehensive user manual for Lezyne Macro Drive 1300XXL, Lite Drive 1000XL, and Micro Drive Pro 800XL LED bike lights. Covers operation, charging, battery status, run times, modes, mounting, warnings, and warranty.</p>