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M-Wave 252147

M-Wave SP110-ADJ Adjustable Seatpost User Manual

Model: 252147

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your M-Wave SP110-ADJ Adjustable Seatpost. Please read this manual thoroughly before use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The M-Wave SP110-ADJ adjustable seatpost is designed for bicycles, offering quick and easy height adjustment via a handlebar-mounted lever. Constructed from durable aluminum, it provides three distinct height levels: 0mm, 45mm, and 110mm, allowing riders to optimize their seating position for various terrains and riding styles.





Image 2.1: M-Wave SP110-ADJ Adjustable Seatpost. This image shows the full seatpost assembly, including the main shaft, the adjustable mechanism, and the cable connection point.

3. FEATURES

- **Adjustable Height:** Easily adjust seatpost height with a handlebar-mounted lever.
- **Three Height Levels:** Offers 0mm, 45mm, and 110mm adjustment options.
- **Durable Material:** Made from high-quality aluminum for strength and longevity.
- **Standard Diameter:** 27.2mm diameter for compatibility with many bicycle frames.
- **Integrated Cable System:** Features an internal cable routing for a clean look and reliable operation.



MIN INSERT
Ø31.6
18L4
AL6066



Image 3.1: Seatpost with measurement markings. This image highlights the lower section of the seatpost, showing the "MIN INSERT" line and numerical markings for depth.

4. SPECIFICATIONS

Specification	Value
Brand	M-Wave
Model Number	252147
Material	Aluminum
Color	Black
Length	445 mm
Diameter	27.2 mm
Adjustable Height Levels	0mm, 45mm, 110mm
Product Dimensions (L x W x H)	2.72 x 2.72 x 44.5 cm
Weight	640 grams
Included Components	1 Seatpost
UPC	887539030896

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your adjustable seatpost. If you are unsure about any step, consult a professional bicycle mechanic.

5.1. Tools Required

- Hex key set (typically 4mm, 5mm, 6mm)
- Torque wrench (recommended for precise tightening)
- Grease (for seatpost insertion)
- Cable cutters (for trimming excess cable)

5.2. Installation Steps

1. **Prepare the Frame:** Ensure the bicycle's seat tube is clean and free of debris. Apply a thin layer of grease to the inside of the seat tube and the lower portion of the seatpost.
2. **Insert Seatpost:** Carefully slide the M-Wave SP110-ADJ seatpost into the bicycle's seat tube. Ensure the

"MIN INSERT" line on the seatpost is fully inside the frame. *Failure to do so can result in damage to the seatpost or frame.*

3. **Secure Seatpost:** Tighten the seatpost clamp bolt to the manufacturer's recommended torque specifications. Do not overtighten.
4. **Install Handlebar Lever:** Mount the remote lever onto your bicycle's handlebar in a comfortable and accessible position. Use the appropriate hex key to secure it.



Image 5.1: Handlebar lever for seatpost adjustment. This image shows the remote lever that mounts on the handlebar, used to actuate the seatpost's height adjustment.

5. **Connect Cable:** Route the control cable from the handlebar lever to the seatpost mechanism. Ensure the cable path is free from kinks and does not interfere with steering or other bike components. Connect the cable securely to both the lever and the seatpost.
6. **Adjust Cable Tension:** Adjust the cable tension at the lever or seatpost barrel adjuster until the seatpost operates smoothly through its three height settings. There should be no slack in the cable when the lever is not actuated.
7. **Trim Excess Cable:** Once tension is set, trim any excess cable, leaving enough slack for full handlebar movement without pulling the cable. Install a cable end cap to prevent fraying.

6. OPERATING INSTRUCTIONS

The M-Wave SP110-ADJ seatpost offers three distinct height positions for optimal riding comfort and performance.

6.1. Adjusting Seatpost Height

- **To Lower the Seatpost:** While seated on the bicycle, press and hold the handlebar lever. Apply downward pressure to the saddle. The seatpost will descend to the next available lower position (110mm to 45mm, or 45mm to 0mm). Release the lever once the desired height is reached.
- **To Raise the Seatpost:** While standing off the saddle, press and hold the handlebar lever. The seatpost will extend upwards to the next available higher position (0mm to 45mm, or 45mm to 110mm). Release the lever once the desired height is reached.
- **Intermediate Positions:** The seatpost is designed to lock at specific intervals (0mm, 45mm, 110mm). It is not

intended for infinite adjustment between these points.





Image 6.1: Seatpost in extended position. This image shows the seatpost fully extended, ready for riding.

7. MAINTENANCE

Regular maintenance will prolong the life and ensure the smooth operation of your M-Wave SP110-ADJ seatpost.

- **Cleaning:** Wipe down the exposed portion of the seatpost with a clean, damp cloth after each ride, especially in dirty or wet conditions. Avoid using harsh chemicals or abrasive cleaners.
- **Lubrication:** Periodically apply a small amount of silicone-based lubricant to the exposed shaft of the seatpost, particularly where it enters the main body. This helps maintain smooth operation and protects seals.
- **Cable Inspection:** Regularly inspect the control cable for fraying, kinks, or corrosion. Replace the cable if any damage is observed.
- **Bolt Torque:** Check the torque of the seatpost clamp bolt and saddle clamp bolts periodically to ensure they are tightened to the manufacturer's specifications.
- **Storage:** When storing the bicycle for extended periods, it is recommended to leave the seatpost in its fully extended position to reduce pressure on internal components.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your adjustable seatpost.

Problem	Possible Cause	Solution
Seatpost does not extend or retract smoothly.	Insufficient lubrication, cable tension too loose/tight, dirty shaft.	Clean and lubricate the exposed shaft. Adjust cable tension. Check for cable kinks.
Seatpost sags or loses height during riding.	Seatpost clamp not tight enough, internal mechanism issue.	Ensure seatpost clamp is tightened to correct torque. If issue persists, professional inspection may be required.
Handlebar lever feels stiff or unresponsive.	Cable friction, damaged cable housing.	Lubricate the cable. Inspect cable and housing for damage and replace if necessary.
Seatpost makes creaking noises.	Lack of grease, loose saddle rails, loose seatpost clamp.	Apply grease to seatpost and seat tube. Check saddle rail bolts and seatpost clamp for proper torque.

9. WARRANTY INFORMATION

M-Wave products are manufactured to high standards and are covered by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official M-Wave website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, spare parts, or any questions not covered in this manual, please contact M-Wave customer support. Contact information can typically be found on the M-Wave official website or on the product packaging.

Website: www.m-wave.com *(Note: This is a placeholder URL, please refer to official product documentation for actual support contact.)*

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