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- › [M-Wave](#) /
- › [M-Wave SP-C3 Spring-Loaded Seat Post Instruction Manual](#)

M-Wave Sp-c3

M-Wave SP-C3 Spring-Loaded Seat Post Instruction Manual

Model: Sp-c3 (CVR1191)

[Overview](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

PRODUCT OVERVIEW

The M-Wave SP-C3 Spring-Loaded Seat Post is designed to enhance riding comfort by absorbing shocks and vibrations from the terrain. This black aluminum seat post features a 40 mm spring travel and includes a scale for precise height adjustments, making it suitable for various cycling applications, particularly city bikes.

Key Features:

- Spring-loaded design for enhanced comfort.
- Dimensions: 30.9 mm diameter x 350 mm length.
- Integrated scale for accurate height adjustments.
- 40 mm of suspension travel.
- Durable aluminum construction.



Figure 1: M-Wave SP-C3 Spring-Loaded Seat Post. This image displays the black aluminum seat post, highlighting its suspension mechanism at the top and the main shaft with height markings.

SETUP AND INSTALLATION

Proper installation of your M-Wave SP-C3 seat post is crucial for safety and performance. If you are unsure about any step, consult a professional bicycle mechanic.

Tools Required:

- Hex key set (typically 5mm or 6mm for seat post clamp, and potentially smaller for saddle clamp bolts).
- Grease (for seat post insertion).
- Torque wrench (recommended for precise tightening).

Installation Steps:

1. **Check Compatibility:** Ensure your bicycle frame's seat tube inner diameter matches the seat post's diameter (30.9 mm).

Using an incorrect size can damage the frame or seat post.

2. **Clean Seat Tube:** Thoroughly clean the inside of the bicycle's seat tube to remove any dirt or debris.
3. **Apply Grease:** Apply a thin layer of bicycle-specific grease to the lower portion of the seat post that will be inserted into the frame. This prevents seizing and creaking.
4. **Insert Seat Post:** Carefully slide the M-Wave SP-C3 seat post into the bicycle's seat tube. Do not force it. Ensure the minimum insertion mark on the seat post is always inside the frame.
5. **Adjust Height:** Adjust the seat post to your desired riding height. Use the integrated scale markings on the seat post for consistent adjustments.
6. **Tighten Seat Clamp:** Secure the seat post by tightening the bicycle's seat post clamp bolt. Refer to your bicycle frame manufacturer's recommended torque specifications. Overtightening can damage the seat post or frame; undertightening can lead to the seat post slipping.
7. **Install Saddle:** Attach your bicycle saddle to the top clamp mechanism of the M-Wave SP-C3 seat post. Adjust the saddle's angle and fore/aft position for optimal comfort and pedaling efficiency. Tighten the saddle clamp bolts securely, adhering to recommended torque values.

Note: Always ensure the seat post is inserted beyond its minimum insertion line for safety.

OPERATION AND ADJUSTMENT

The M-Wave SP-C3 seat post is designed to provide suspension for a smoother ride. Its operation is largely automatic, reacting to road imperfections.

Suspension Function:

- The internal spring mechanism provides 40 mm of vertical travel, absorbing impacts from bumps and uneven surfaces.
- The suspension activates automatically under rider weight and road conditions.

Height Adjustment:

To adjust the seat post height:

1. Loosen the bicycle's seat post clamp.
2. Carefully slide the seat post up or down to the desired height. Use the etched scale markings for precise and repeatable adjustments.
3. Ensure the minimum insertion line remains within the frame.
4. Tighten the seat post clamp to the manufacturer's recommended torque.

MAINTENANCE

Regular maintenance will prolong the life and ensure optimal performance of your M-Wave SP-C3 seat post.

Cleaning:

- Wipe down the exposed portion of the seat post and the suspension boot regularly with a clean, damp cloth.
- Avoid using harsh chemicals or abrasive cleaners, which can damage the finish or seals.

Lubrication:

- Periodically inspect the suspension boot for cracks or damage.
- If the suspension action feels stiff or noisy, a small amount of silicone-based lubricant can be applied to the exposed stanchion (the moving part of the suspension) just above the boot. Do not use petroleum-based lubricants, as they can

degrade rubber seals.

Inspection:

- Regularly check all bolts (saddle clamp bolts, seat post clamp bolt) for proper tightness.
- Inspect the seat post for any signs of cracks, bends, or damage, especially after a fall or impact. Replace immediately if damage is found.
- Ensure the seat post does not slip down into the frame during riding. If it does, re-tighten the seat clamp to the correct torque.

TROUBLESHOOTING

This section addresses common issues you might encounter with your M-Wave SP-C3 seat post.

Problem	Possible Cause	Solution
Seat post slips down into frame.	Seat post clamp is not tight enough. Incorrect seat post diameter. Grease on seat tube/post is excessive or incorrect type.	Tighten seat clamp to recommended torque. Verify seat post diameter (30.9 mm). Clean seat tube and post, apply thin layer of appropriate grease or carbon paste if frame is carbon.
Creaking noise from seat post area.	Insufficient grease on seat post. Loose saddle clamp bolts. Loose seat post clamp.	Remove, clean, and re-grease seat post. Check and tighten saddle clamp bolts. Check and tighten seat post clamp.
Suspension feels stiff or unresponsive.	Dirt or debris on stanchion. Lack of lubrication.	Clean exposed stanchion. Apply a small amount of silicone-based lubricant to the stanchion.
Suspension feels too soft or bottoms out easily.	This model has a fixed spring rate.	The M-Wave SP-C3 does not offer adjustable spring preload. If the suspension is consistently too soft for your weight, consider a seat post designed for heavier riders or with adjustable spring rates.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact M-Wave customer support.

PRODUCT SPECIFICATIONS

Brand	M-Wave
Model Name	Sp-c3
Part Number	CVR1191
UPC	887539032852
Color	Black
Material	Aluminum
Size	ø 30.9 x 350 mm
Product Dimensions (W x H)	1.22"W x 13.78"H (approx. 30.9mm x 350mm)
Item Dimensions (L x W x H)	1.22 x 1.22 x 13.78 inches

Item Weight	0.6 Kilograms
Package Weight	0.62 Kilograms
Spring Travel	40 mm
Included Components	1 seat post
Suggested Users	Unisex
Bike Type Compatibility	City Bike

WARRANTY AND SUPPORT

Manufacturer's Warranty:

The M-Wave SP-C3 Spring-Loaded Seat Post comes with a **2 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage resulting from improper installation, misuse, neglect, accidents, modifications, or normal wear and tear.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your M-Wave SP-C3 seat post, please contact M-Wave customer support. Refer to the official M-Wave website or your purchase documentation for the most current contact information.

When contacting support, please have your product model name (Sp-c3) and part number (CVR1191) ready.



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