

## Sirio P-2000

# SIRIO P-2000 Performer 27-30 MHz Antenna Instruction Manual

Model: P-2000 Performer

## 1. PRODUCT OVERVIEW

The SIRIO P-2000 Performer antenna is designed for 27-30 MHz frequency bands, suitable for CB 27 MHz and 10m-HAM systems. This antenna is built for high performance with a maximum power handling of 2000 Watts. It features a robust construction for durability and reliable operation.

### Key Features:

- Frequency Band: 27 to 30 MHz (Tunable)
- Systems: CB 27 MHz, 10m-HAM
- Maximum Power: 2000 Watts (Duty Cycle 5' ON / 5' OFF)
- Polarization: Linear Vertical
- Radiation: Omnidirectional
- Height: Approximately 1920 mm (6.3 ft)
- Mounting: Plug-on type (for P2000 PL variant)

## 2. SPECIFICATIONS

### Electrical Data:

- Type: Base loaded
- Radiation: Omnidirectional
- Polarization: Linear Vertical
- Frequency Band: 27 - 30 MHz (Tunable)
- Systems: CB 27 MHz, 10m-HAM Band
- Bandwidth:  $\geq 1.8$  MHz @ SWR  $\leq 2$
- Maximum Power: 2000 Watts (Duty Cycle 5' ON / 5' OFF)

- Grounding Protection: Short-circuit protection
- Cable Length / Type (P2000 variant): 4 m (13.12 ft) / RG58
- Connection (P2000 PL variant): UHF-male (PL-259)

## Mechanical Data:

- Materials: Copper, Chromed Brass, 17/7 pH Stainless Steel, UV-stabilized Thermoplastic, Zamak
- Height (approx.): 1920 mm (6.3 ft)
- Weight (approx.): 730 g (1.61 lb)
- Mounting Type (P2000 PL variant): On plug



**Figure 2.1:** High-Power Matching Coil. This image shows the internal structure of the antenna's matching coil, featuring low-loss dielectric support, air-wound big section copper wire with a diameter of 2.5mm (AWG 10).

## 3. SETUP AND INSTALLATION

Proper installation is crucial for optimal antenna performance and safety. Follow these guidelines carefully.

### 3.1 Mounting the Antenna

The P-2000 PL variant is designed for plug-on mounting. Ensure the mounting surface is sturdy and provides a good ground connection for best performance.

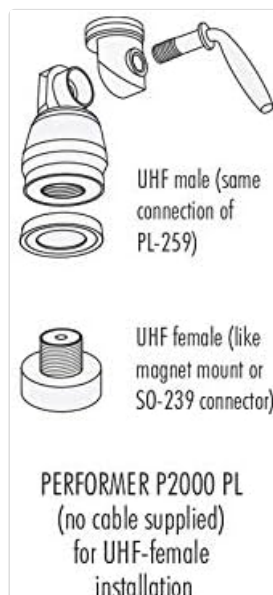


**Figure 3.1:** UHF Male and Female Connection Diagram. This diagram illustrates the UHF male connector (PL-259 type) and the UHF female connector (SO-239 type, often found on magnet mounts) for the P-2000 PL antenna, which does not include a cable.

For the P-2000 PL model, connect the antenna to a UHF-female (SO-239) base or mount. Ensure the connection is secure and weatherproof.

### 3.2 Tilting Mechanism Adjustment

The antenna features a tilting mechanism allowing for angle adjustments up to  $\pm 90$  degrees. This is useful for clearing obstacles or adjusting the radiation pattern.



**Figure 3.2:** Antenna Tilting Mechanism. This image demonstrates the lever used to adjust the antenna's tilt angle. The lever can be moved to 'LOCK' or 'UNLOCK' positions, allowing for approximately 45° and 90° inclination adjustments.

1. Locate the lever on the antenna base.
2. Move the lever to the 'UNLOCK' position to adjust the tilt.
3. Adjust the antenna to the desired angle (e.g., 45° or 90° inclination).
4. Move the lever to the 'LOCK' position to secure the antenna in place.

### 3.3 Tuning (Tunable)

The antenna is tunable across the 27-30 MHz band. Fine-tuning is essential to achieve the lowest Standing Wave Ratio (SWR) for optimal performance and to prevent damage to your radio equipment. Consult your radio's manual for specific tuning procedures and use an SWR meter.

## 4. OPERATING INSTRUCTIONS

Once installed and tuned, the SIRIO P-2000 Performer antenna is ready for operation. Ensure your radio equipment is correctly connected and powered on.

- **Frequency Range:** Operate within the 27-30 MHz frequency band for which the antenna is designed.
- **Power Limit:** Do not exceed the maximum power rating of 2000 Watts (with a duty cycle of 5 minutes ON / 5 minutes OFF) to prevent antenna damage.

- **SWR Monitoring:** Regularly check your SWR to ensure it remains low (ideally below 1.5:1, and certainly below 2:1) for efficient power transfer and equipment protection.
- **Environmental Considerations:** Avoid operating the antenna near large metal structures or power lines that could interfere with its performance or pose a safety hazard.

## 5. MAINTENANCE

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To ensure the longevity and optimal performance of your SIRIO P-2000 Performer antenna, periodic maintenance is recommended.

- **Regular Inspection:** Periodically inspect the antenna for any signs of physical damage, corrosion, or loose connections.
- **Connection Check:** Ensure all electrical connections, especially the UHF connector, are tight and free from moisture. Apply dielectric grease if necessary to prevent corrosion.
- **Cleaning:** Clean the antenna elements with a mild detergent and water to remove dirt, grime, and salt buildup, especially in coastal environments. Rinse thoroughly and dry.
- **Mounting Security:** Verify that the antenna mount is securely fastened and stable.

## 6. TROUBLESHOOTING

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If you experience issues with your antenna, consider the following common troubleshooting steps:

- **High SWR:**
  - Check all cable connections for tightness and proper seating.
  - Inspect the coaxial cable for damage (kinks, cuts, shorts).
  - Verify the antenna is properly tuned for your operating frequency.
  - Ensure a good ground connection for the antenna mount.
- **Poor Reception/Transmission:**
  - Confirm the antenna is correctly installed and oriented.
  - Check for obstructions around the antenna that might block the signal.
  - Ensure the radio is functioning correctly and set to the appropriate mode and frequency.
- **Physical Damage:**
  - If any part of the antenna is bent, broken, or corroded, it may need repair or replacement.
  - Do not attempt to operate a damaged antenna as it could harm your radio.

## 7. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided at the point of purchase or contact your authorized SIRIO dealer. Keep your proof of purchase for warranty claims.

SIRIO products are manufactured to high standards. In the unlikely event of a defect, please contact customer service for assistance.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

**Name**

Anonymous

**Email**

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

**Submit question**