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## Ruitutedianzi 500418376

# Ruitutedianzi QRP 5M/16.4FT HF Antenna Instruction Manual

Model: 500418376

## 1. PRODUCT OVERVIEW

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The Ruitutedianzi QRP 5M/16.4FT HF Antenna is a versatile and portable antenna designed for amateur radio enthusiasts. It operates within the 14-30MHz frequency range, offering efficient performance, particularly at 14.270MHz. Constructed from durable stainless steel, this 1/4 wavelength antenna can handle up to 300W (with peak values reaching 600W) and is designed for easy installation and portability.

## 2. PACKAGE CONTENTS

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Verify that all components are present in your package:

- 1 x Antenna Base Unit (Unun)
- 1 x Radiating Wire (approx. 5m/16.4ft)
- 1 x 80-meter Coil
- 1 x Egg Insulator
- 1 x Dacron Type Rope
- 1 x Instruction Sheet



Figure 1: Overview of the antenna components. Includes the main base unit, the coiled radiating wire, and an egg insulator.

### 3. SETUP AND INSTALLATION

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Follow these steps to set up your Ruitutedianzi HF Antenna:

#### 3.1. Antenna Base Unit (Unun)

The antenna base unit features a 64:1 unun housed in a weatherproof case. It includes an SO-239 connector for your coaxial cable and threaded inserts for connecting the radiating wire and optional counterpoise.



Figure 2: Close-up of the antenna base unit, showing the SO-239 connector and attachment points.

### **3.2. Connecting the Radiating Wire**

The radiating wire attaches to the threaded insert on the right side of the unun. The wire is looped through a strain relief point and secured with a zip tie. The far end of the radiating wire has an egg insulator for tying off.



Figure 3: Detail of the radiating wire connection to the unun, showing the strain relief.

### 3.3. Optional Counterpoise Connection

A Phillips head screw near the SO-239 connector is provided for attaching an optional counterpoise wire. This can help optimize performance, especially in portable setups.

### 3.4. Deployment

The antenna can be deployed in various configurations, such as a sloper or horizontal wire. Ensure the radiating wire is clear of obstructions. For optimal performance, avoid hanging the unun more than 20 degrees from the vertical to prevent water ingress at the connection point.

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Video 1: GOOZEEZOO JPC-12 HF Antenna Installation. This video demonstrates the assembly and deployment of a similar HF antenna, providing visual guidance for setting up the radiating elements and base unit.

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Video 2: GOOZEEZOO JPC-12 HF Antenna Unboxing. This video provides a detailed look at the components included in a similar antenna kit, which can help in identifying parts and understanding their function.

## 4. OPERATING INSTRUCTIONS

This antenna is designed for multi-band operation across 80, 40, 30, 20, 17, 15, 12, and 10 meters. The 64:1 unun helps match the antenna to your transceiver.

### 4.1. Power Limits

- SSB (Single Sideband): < 150W
- CW (Continuous Wave): < 120W

- Digital Modes: < 80W

Exceeding these power limits may cause damage to the antenna or transceiver.

## 4.2. Tuning and SWR

The antenna is designed to provide low SWR across its operating bands. Minor adjustments to the length of the radiating wire may be necessary for optimal SWR on specific frequencies. The wire includes a strain relief mechanism to facilitate these adjustments.

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Video 3: 2PCS 18.4FT GP Whip Telescopic Antenna. This video demonstrates the adjustability of telescopic whip antennas, which can be relevant for understanding how to tune the radiating element length for optimal SWR.

## 5. MAINTENANCE

The antenna is constructed with durable materials for longevity. To ensure continued performance:

- Regularly inspect the radiating wire for any signs of wear or damage.
- Ensure all connections, especially the SO-239 and radiating wire attachment, are secure and free from corrosion.
- The unun case is weatherproof; however, avoid prolonged exposure to extreme weather conditions when possible.

## 6. TROUBLESHOOTING

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

- **High SWR:** Check all connections for tightness. Ensure the radiating wire is fully extended and clear of obstructions. Adjust the length of the radiating wire slightly to find a better match. Consider adding a counterpoise wire if not already in use.
- **Poor Reception/Transmission:** Verify all cables are connected correctly. Check the power settings on your transceiver. Ensure the antenna is deployed at an adequate height and clear of nearby structures that could interfere with its performance.
- **Water Ingress:** Ensure the unun is not hung at an angle greater than 20 degrees from the vertical to prevent water from entering the connector.

## 7. SPECIFICATIONS

Feature	Specification
Frequency Range	14-30MHz (Efficient at 14.270MHz)
Withstand Voltage Power	300W (Value can reach 600W)
Antenna Length	Can be extended to 5m/16.4 feet
Material	Stainless Steel (1/4 Wavelength)
Unun Ratio	64:1
Power (SSB)	< 150W

Power (CW)	< 120W
Power (Digital Modes)	< 80W
Product Dimensions	19.69 x 3.54 x 1.57 inches
Item Weight	1.25 pounds
Item Model Number	500418376

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support, please contact Ruitutedianzi customer service through your purchase platform. Keep your proof of purchase for any warranty claims.