REZ ANTENNA SYSTEMS
PRECISION MADE RELIABILITY

OWNER'S MANUAL

Portable Antenna Platform

XFORM 9:1

Modular Impedance Matching System



DOCUMENT
REZ-SXF-91

REVISION
V1.0

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IMPORTANT SAFETY INFORMATION

READ BEFORE USE

Read and understand all warnings and instructions before installing or operating this product.

WARNING — ELECTRICAL SHOCK HAZARD

Never install, raise, lower, or operate this antenna where any part of the antenna, mast, wire, guy line, or support could contact an overhead power line. Contact with electrical power lines can result in serious injury or death.

WARNING — TIPPING / FALLING HAZARD

Properly secure all antenna supports and keep the deployment area clear of people and property. Wind, unstable ground, improper assembly, or inadequate support can cause the antenna or supporting structure to fall, resulting in serious injury or property damage.

WARNING — FIRE / EQUIPMENT DAMAGE HAZARD

Do not exceed the power limits specified for this product in this manual. Excessive RF power, excessive mismatch, or improper operation can cause overheating, equipment damage, or fire.

WARNING — RF EXPOSURE

Radio-frequency energy can present a health hazard at sufficiently high exposure levels. Install and operate the antenna so that applicable RF exposure limits are satisfied. Maintain appropriate separation between the radiating elements and people during transmission.

WARNING — LIGHTNING HAZARD

Do not install, adjust, or operate this antenna during thunderstorms or when lightning is possible. Disconnect antenna systems when appropriate and follow accepted lightning-safety practices.

01

GETTING STARTED

Product orientation, specifications and initial setup.

1.1
Product Overview

1.2
Initial Setup Procedure

1.3
Wire System

1.1

PRODUCT OVERVIEW

XFORM 9:1

The REZ XFORM 9:1 is a compact broadband transformer designed for portable, non-resonant wire antenna systems. It can be configured with the REZ Scout XF platform or Direct Feed to support a variety of field deployment options.

Used with an appropriate radiator, counterpoise or radial system, and antenna tuner, the XFORM 9:1 provides a simple and flexible way to operate across multiple HF bands from a single antenna system.



9:1	3/8–24	1.8-50 MHz
IMPEDANCE TRANSFORMATION RATIO	RADIATOR INTERFACE	FREQUENCY COVERAGE

CHARACTERISTIC	SPECIFICATION
Power Rating	200 Watts PEP, 75 Watts Digital (50% Duty Cycle)
Frequency Coverage	1.8-50 MHz (Deployment Dependent)
Radiator Interface	3/8–24 Thread
Feed Connection	Scout XF or XFORM Direct Feed
Counterpoise/Jumper Port	4mm Banana Plug
Construction	CNC Machined Acetal & 6061 Aluminum, All Stainless Hardware

WARNING
Never exceed the stated power ratings. Always de-rate for high duty cycle modes.

1.2

INITIAL SETUP PROCEDURE

Due to it's modular design, the XFORM 9:1 has no integrated coax feed point. Before operating you must install either the Scout XF or the Direct Feed.

SCOUT XF

01 INSTALL THE FEED POINT



Thread the Scout XF or the Direct Feed onto the bottom feed port of the XFORM.

- Confirm the mounting surface is clean.
- Engage threads by hand.
- Stop if the connection binds.
- Fully seat the XFORM agaisnt the top of the Scout XF



CORRECT

Full metal to metal contact with the feed point.



INCORRECT

Gap left between XFORM and the feed point.

LEGACY SCOUT

01 INSTALL THE FEED POINT



Thread the Scout onto the bottom feed port of the XFORM.

- Confirm the mounting surface is clean.
- Engage threads by hand.
- Stop if the connection binds.
- Fully seat the XFORM agaisnt the top of the Scout

02 INSTALL THE JUMPER



Insert the jumper into one of the radial ports on the Scout. Insert the other end into the counterpoise/jumper port on the XFORM.

> **NOTE**
> The jumper is not included and will have to built by the user. You can build your own with 14 AWG stranded wire and 4MM banana plugs. Contact REZ support if you have any questions.

DIRECT FEED

01 INSTALL THE DIRECT FEED



Thread the Direct Feed onto the XFORM.

- Confirm the mounting surface is clean.
- Engage threads by hand.
- Stop if the connection binds.



CORRECT

Full metal to metal contact with the feed point.



INCORRECT

Gap left between XFORM and the feed point.

WARNING

If poor contact is made between the XFORM and it's installed feed point, the system will not function properly. This will cause high SWR and may damage the antenna system and or radio.

1.3

WIRE SYSTEM

XFORM 9:1 WIRE KIT (SOLD SEPARATELY)

INCLUDED COMPONENTS

ITEM	DESCRIPTION	QTY
01	58' Radiator Assembly	1
02	17' Counterpoise Assembly	1
03	Tent Stake	1
04	Wire Winder	1
05	Carry Pouch	1



Figure 1.3.1 REZ-XSF-91-WK Kit Contents

RADIATOR WIRE

The XFORM 9:1 Wire Kit combines the 58 ft radiator with an integrated non-conductive support system for deployment and tensioning. Familiarize yourself with the components shown below before proceeding to the deployment configurations.

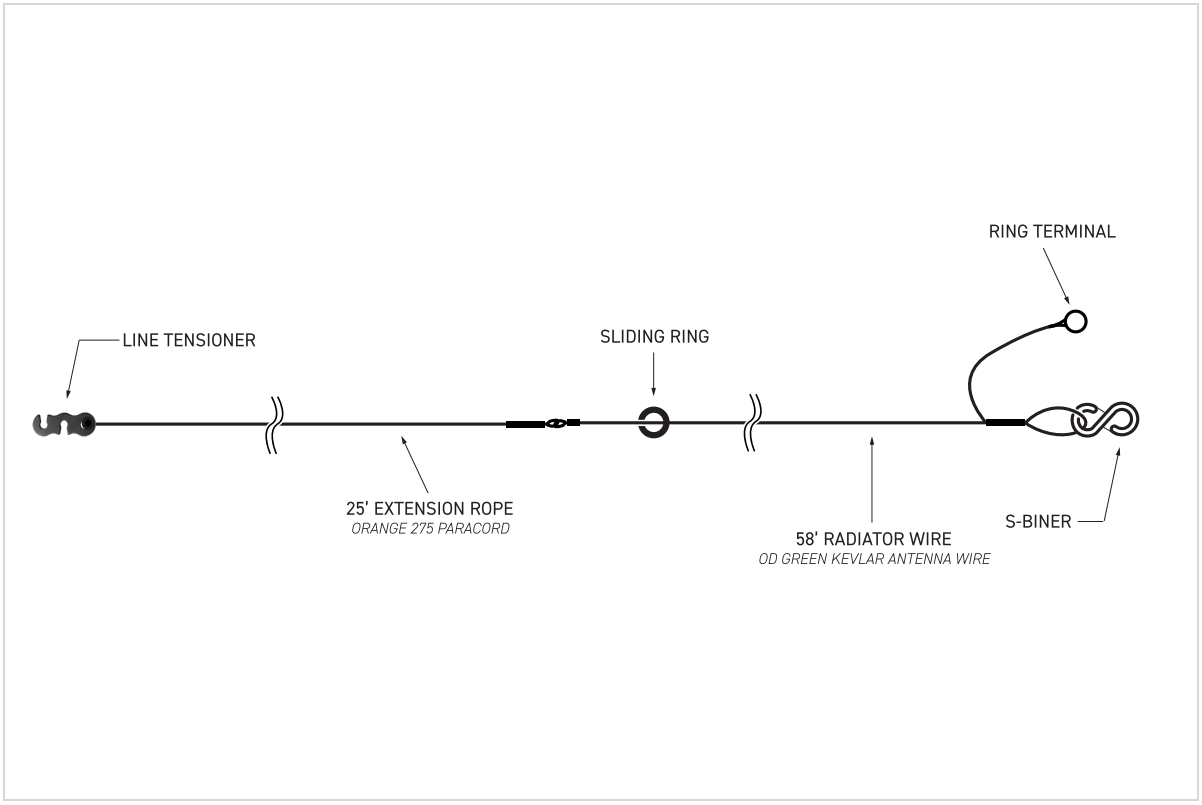


Figure 1.3.2 XFORM 9:1 Radiator Wire Diagram

> **NOTE**
> The Extension Rope and support hardware are non-conductive and do not contribute to the electrical length of the radiator.

SLIDING RING

The Sliding Ring moves freely along the radiator wire and provides an adjustable support point for hoisting and positioning the radiator.

COUNTERPOISE WIRE

The included 17 ft counterpoise wire provides the return path for the antenna system. It is terminated with a 4 mm banana plug for direct connection to the XFORM 9:1 counterpoise port and can be deployed along the ground as shown in the deployment configurations.

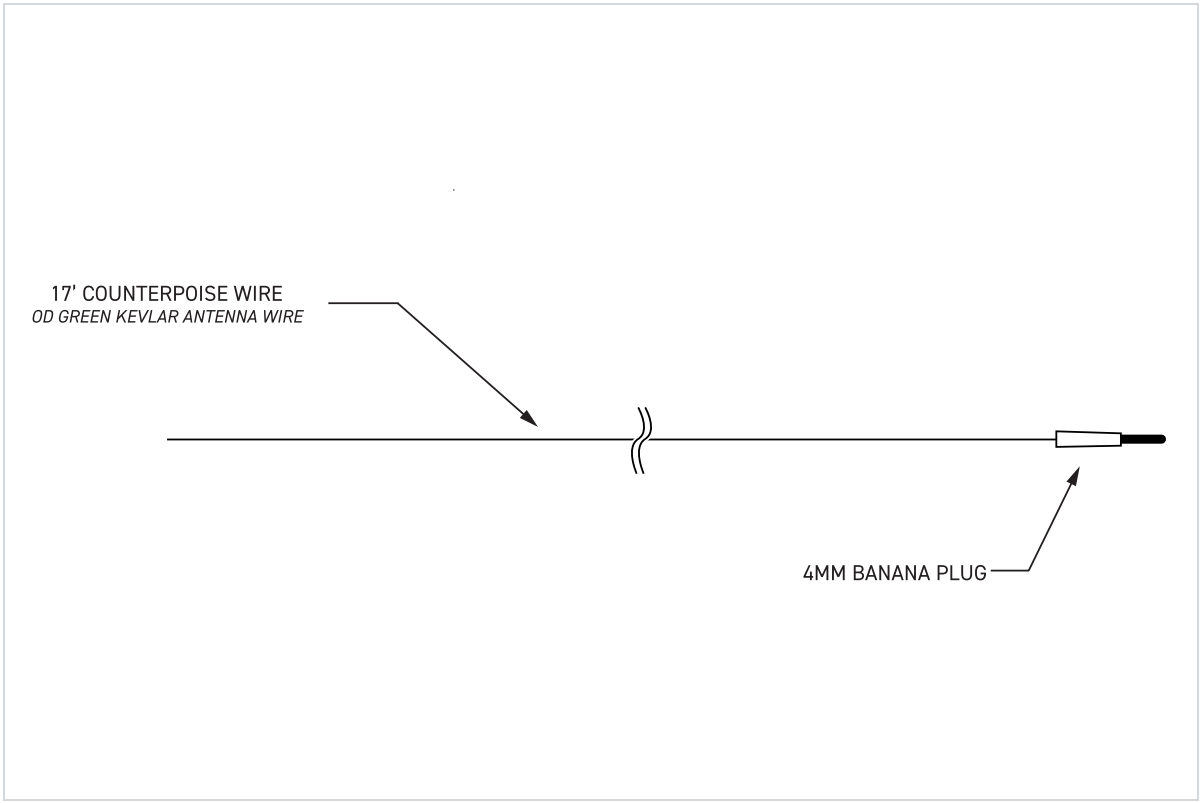


Figure 1.3.3 XFORM 9:1 Counterpoise Wire Diagram

WIRE RADIATOR INSTALLATION

This wire installation applies to all wire configurations for the XFORM 9:1.

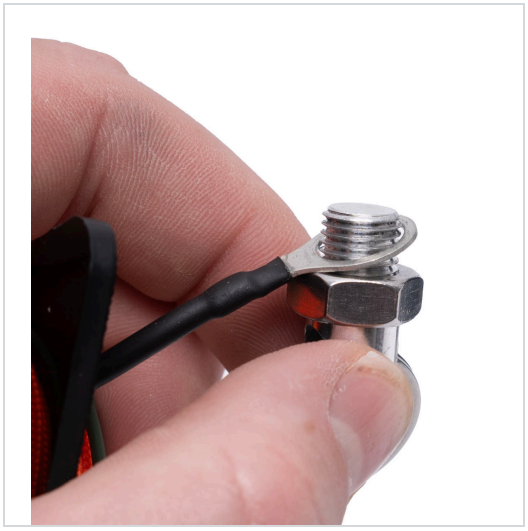
01 INSTALL THE COUPLING NUT



Thread the included coupling nut onto the top stud of the XFORM eclosure.

02 CONNECT THE RADIATOR RING TERMINAL

While holding the wire tension with one hand, slip the ring terminal over the ring screw. Attach the ring screw with ring terminal until it's fully seated. Then clip the S-Biner to the ring loop. It is now safe to release the wire tension.





The XFORM 9:1 Wire Kit supports several deployment configurations using the same radiator and counterpoise system. Refer to the following section for recommended setups and deployment methods.

02

DEPLOYMENT CONFIGURATIONS

Flexible setups for a variety of operating environments.

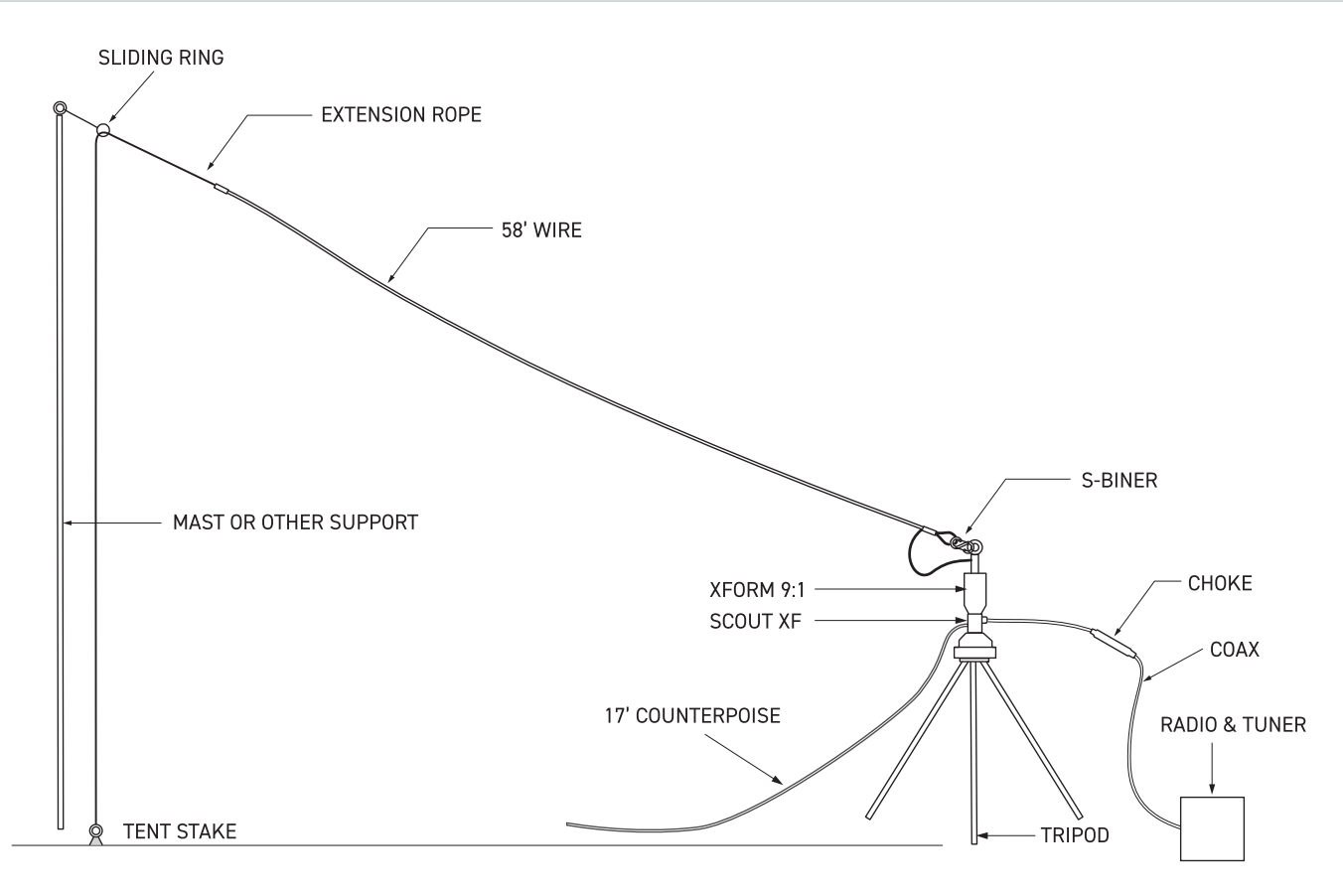
2.1 **Sloper**

2.2 **Inverted-L Sloper**

2.3 **Flat Top Random Wire**

2.1

SLOPER



Sloper Configuration

DEPLOYMENT

- Hoist & secure 58' radiator wire.
- Deploy XFORM on mount.
- Connect radiator wire and counterpoise to XFORM.
- Connect coax and choke.
- Tune and operate.

OPERATING CHARACTERISTICS

- Rapid Setup
- General & NVIS Coverage
- Requires tuner.
- 40-10 M band coverage.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	Assembled XFORM and Scout XF	1
02	XFORM 9:1 Wire Kit	1
03	Tripod or Ground Spike Mount	1
04	Elevated support (mast or tree)	1
05	Common Mode Choke	1

SETUP

01 DEPLOY THE FAR END OF THE RADIATOR WIRE



- Attach the Sliding Ring to the elevated support
- Hoist the ring and wire to ~20 feet.

TIP
Deploying the radiator first from the fixed elevated position helps easily position the XFORM in the correct spot for the required wire tension.

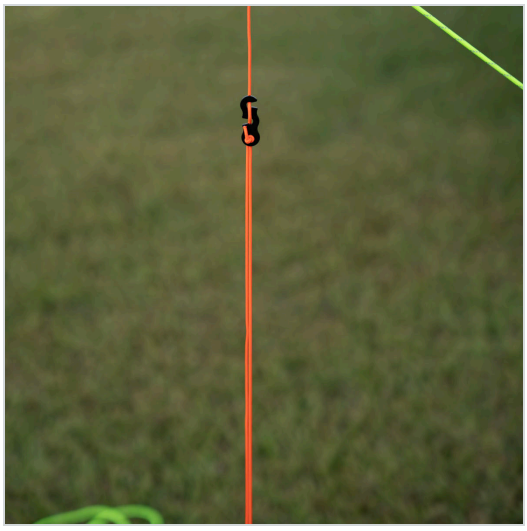
02 SECURE EXTENSION ROPE

After hoisting the Sliding Ring, secure the end of the support rope at ground level.

- Using the included ground stake, thread the Extension Rope through the cord loop.
- Attach the included rope tensioner back to the Extension Rope.
- Leave some slack for tension adjustment after the XFORM is deployed.

> **TIP**
> Leave enough slack for tension adjustment but ensure the rope can't accidentally come loose and slip up and out of the elevated Sliding Ring.





03 DEPLOY THE XFORM FEED POINT



- Stretch the radiator wire until it's taught. This marks the approximate location where you will need to mount the XFORM.
- Deploy the mount.
- Thread the Scout XF base onto the mount.
- Install the radiator wire as described in chapter 1.3.
- Connect the counterpoise wire and route 180 degrees away from radiator wire.
- Connect the common mode choke at the feed point of the antenna. Connect the choke to your coax and radio.

IMPORTANT
This antenna is designed to be used with a common mode choke. Without one you may experience "RF in the shack", erratic tuning behaviors and unpredictable radiation patterns.

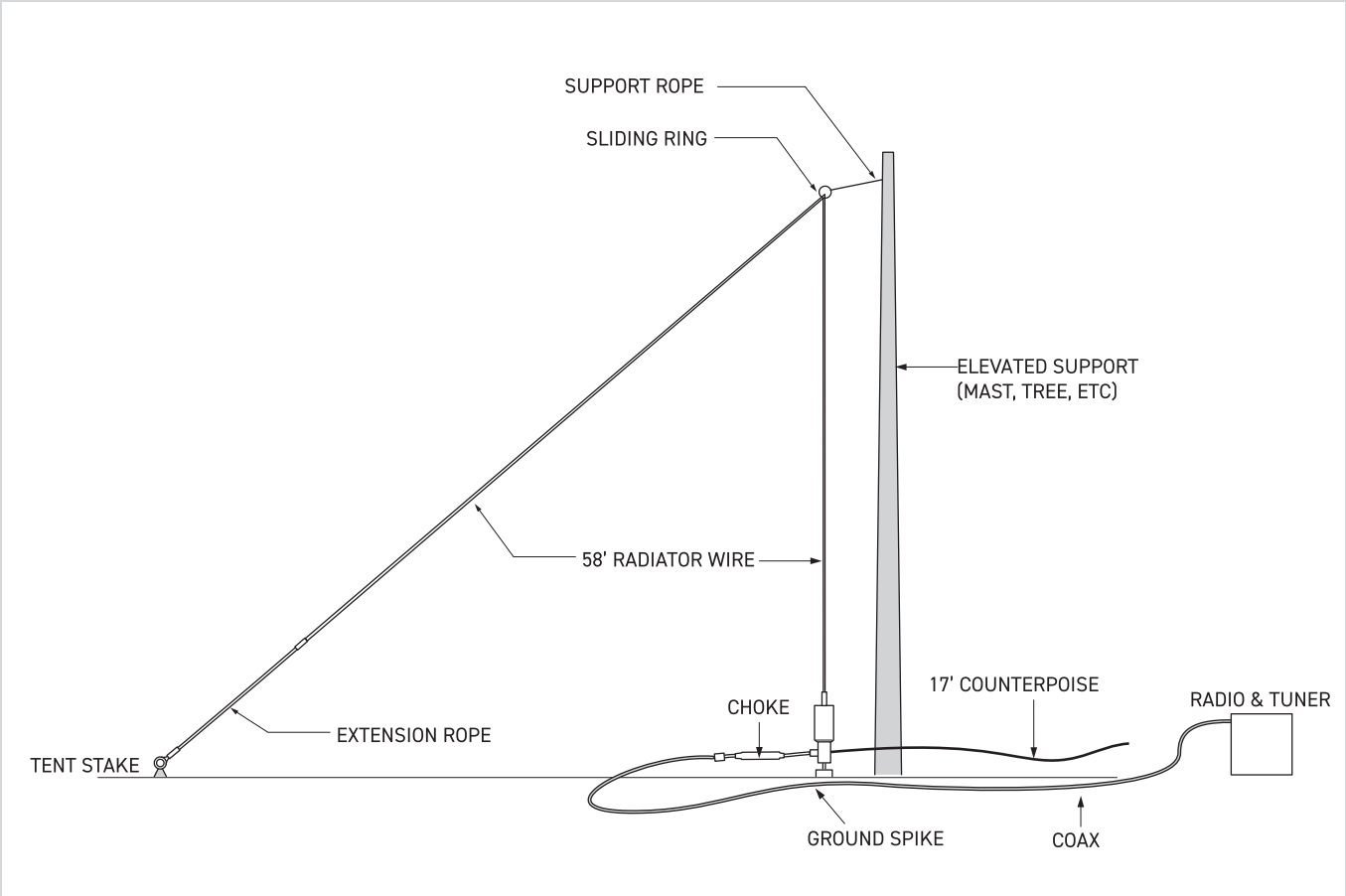
WARNING
Ensure the mount is secured well enough to resist tipping. When using a tripod, point one leg of the tripod in the direction of the wire. A tripod weight is recommended.

04 TUNE AND OPERATE

Follow the tuning procedure on your tuner and begin operating.

2.2

INVERTED-L SLOPER



Inverted-L Sloper Configuration

DEPLOYMENT

- Deploy XFORM on ground spike.
- Connect counterpoise.
- Connect and hoist 58' radiator wire.
- Secure far end to tent stake.
- Connect choke & coax
- Tune & operate.

OPERATING CHARACTERISTICS

- Mix of low angle and high angle radiation.
- Single support.
- Requires tuner.
- 40-10M band coverage.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	Assembled XFORM and Scout XF	1
02	XFORM 9:1 Wire Kit	1
03	Ground Spike Mount	1
04	Elevated support (mast or tree)	1
05	Common Mode Choke	1

SETUP

01 DEPLOY THE XFORM FEED POINT



- Insert ground spike into ground.
- Thread XFORM and Scout XF onto the ground spike.

02 PREPARE & HOIST THE RADIATOR

- Unfurl the radiator wire starting at the far end (away from the support & XFORM) and work your way back toward the XFORM.
- Install the radiator wire to the XFORM as described in chapter 1.3.
- Position the Sliding Ring in line with the support rope and attach the rope to the ring.
- Hoist Sliding Ring to desired operating height.

03 SECURE & TENSION THE EXTENSION ROPE

Secure the Extension Rope using the included tent stake. Tension the radiator wire using the line tensioner.

- Choose a spot for the ground stake that will allow the Extension Rope to fold back on itself 2-3'.
- Insert the ground stake.
- Loop Extension Rope through the cord loop on the stake.
- Attach the line tensioner back to the Extension Rope.
- Tension the radiator wire to an appropriate tension.

> **IMPORTANT**
> Do not over tension the wire. Some sag in the antenna wire is to be expected.





04 CONNECT THE FEED LINE & COUNTERPOISE

- Connect the common mode choke at the feed point of the antenna. Connect the choke to your coax and radio.
- Connect the counterpoise to the Scout XF and route 180 degrees away from radiator.

> ✓ **TIP**
> Route the coax away from the radiator and counterpoise to avoid any unwanted RF on the feedline.

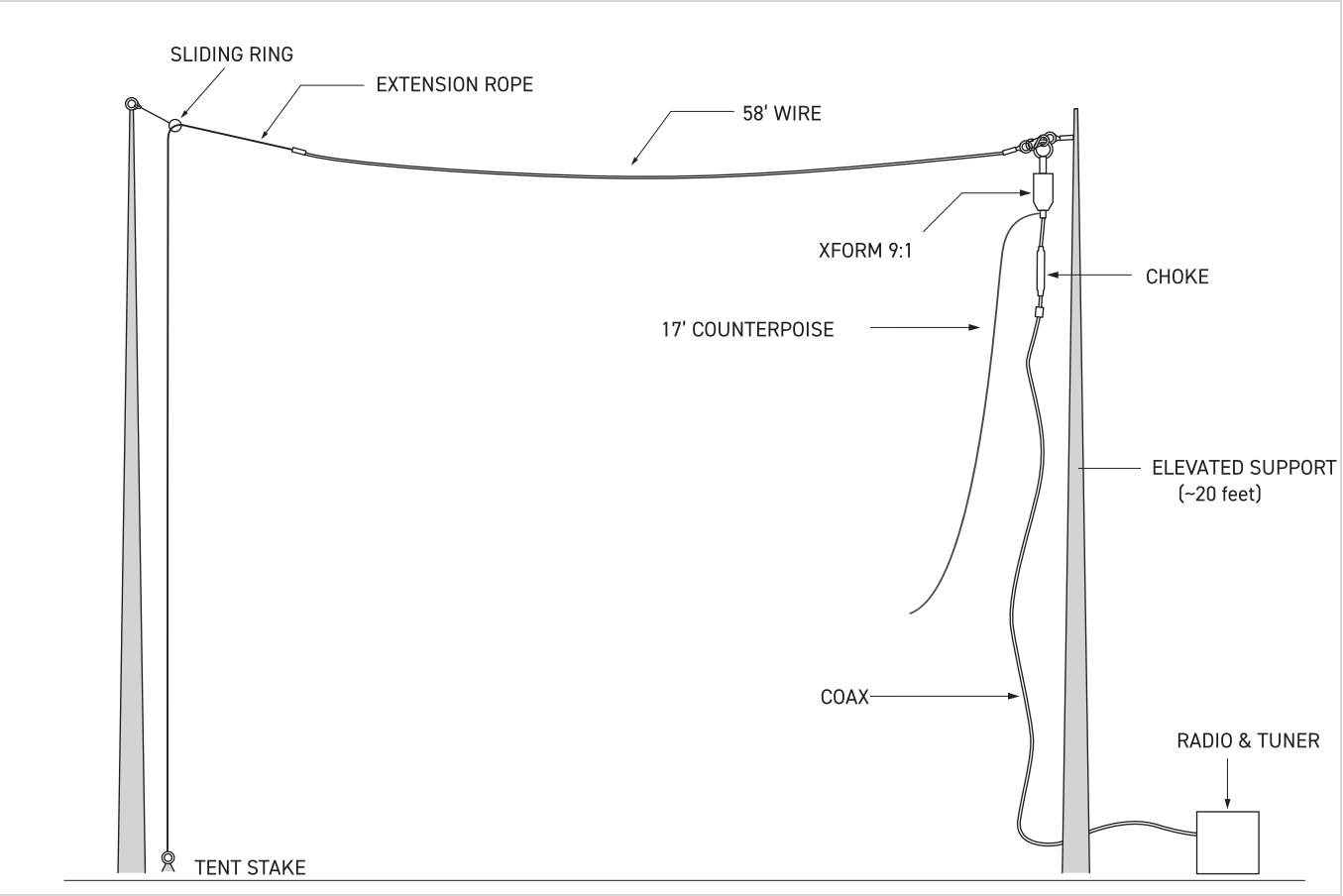
> ! **IMPORTANT**
> This antenna is designed to be used with a common mode choke. Without one you may experience "RF in the shack", erratic tuning behaviors and unpredictable radiation patterns.

05 TUNE AND OPERATE

Follow the tuning procedure on your tuner and begin operating.

2.3

FLAT TOP RANDOM WIRE



Flat Top Random Wire Deployment

DEPLOYMENT

- Deploy Hoisting Rope.
- Attach XFORM to Hoisting Rope.
- Connect choke, coax, counterpoise & 58' radiator.
- Hoist XFORM then Sliding Ring.
- Secure Extension Rope to tent stake and tension radiator.
- Tune & operate.

OPERATING CHARACTERISTICS

- Broad regional & NVIS coverage.
- Double supports required.
- Requires tuner.
- 40-10M band coverage.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	Assembled XFORM and Direct Feed	1
02	XFORM 9:1 Wire Kit	1
03	Hoisting Rope	1
04	Elevated support (mast or tree)	2
05	Common Mode Choke	1

SETUP

01 DEPLOY THE XFORM FEED POINT

Once the Hoisting Rope has been deployed you will need to prepare the XFORM & Direct feed to be hoisted to full operating height.

- Attach the radiator wire to the XFORM as described in chapter 1.2.
- Attach the XFORM to the Hoisting Rope and position it at a comfortable working height.
- Attach the counterpoise using the port on the XFORM housing.
- Attach common mode choke & coax.
- Hoist to the desired operating height.



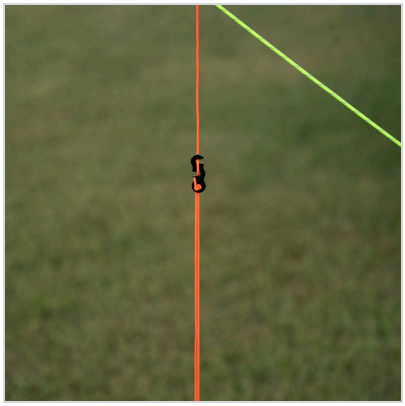


02 HOIST FAR END OF RADIATOR WIRE

Once the XFORM feed point has been deployed, raise the far end of the radiator wire to ~20 feet.

- Align the tent stake with the Hoisting Rope.
- Slide the Extension Rope through the cord ring on the tent stake and secure the line tensioner back to the Extension Rope.
- Attach the Sliding Ring to the Hoisting Rope.
- Hoist the wire to ~20 feet.
- Tension the radiator wire with the line tensioner.







03 TUNE AND OPERATE

Follow the tuning procedure on your tuner and begin operating.

REZ ANTENNA SYSTEMS

SUPPORT & WARRANTY

NEED HELP?

For product support, troubleshooting assistance, or warranty service, contact REZ Antenna Systems before returning a product.

support@rezantenna.com **rezantenna.com**

ONE-YEAR LIMITED WARRANTY

REZ Antenna Systems warrants this product to the original purchaser against defects in materials and workmanship for a period of one year from the date of purchase.

During the warranty period, REZ Antenna Systems will, at its option, repair or replace a product determined to be defective in materials or workmanship.

This warranty does not cover damage resulting from misuse, abuse, accident, improper installation, unauthorized modification or repair, operation outside the product's published specifications or ratings, normal wear, or damage caused by external events or environmental conditions beyond those for which the product was designed.

Consumable items and components subject to normal wear are not covered except where a failure results from a defect in materials or workmanship.

Warranty service requires proof of purchase. Before returning a product, contact REZ Antenna Systems for support and return authorization.

Complete and current warranty terms:
rezantenna.com/warranty