REZ ANTENNA SYSTEMS
PRECISION MADE RELIABILITY

OWNER'S MANUAL

Complete Antenna System

XFORM 9:1 Scout Field Kit

Portable Random-Wire Antenna System



DOCUMENT
REZ-SXF-91-SFK

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

Kit contents, Scout XF assembly, and wire system installation.

1.1
Product Overview

1.2
Scout XF Assembly

1.3
Kit Contents & Wire System

1.1

PRODUCT OVERVIEW

XFORM 9:1 SCOUT FIELD KIT

The REZ XFORM 9:1 Scout Field Kit combines the XFORM 9:1 matching unit, Scout XF mounting base, and portable radiator and counterpoise system into a modular HF wire antenna package. The Scout XF provides a mounting platform for ground-supported and elevated antenna arrangements. Suitable operator-supplied supports and an antenna tuner are required for the selected deployment.



COMPLETE	**2**	**MULTI-BAND**
ANTENNA SYSTEM	DEPLOYMENT CONFIGURATIONS	TUNER-ASSISTED OPERATION

CHARACTERISTIC	SPECIFICATION
Radiator Assembly	58 ft wire radiator with integrated support hardware
Counterpoise Assembly	17 ft wire counterpoise
Mounting Platform	Scout XF (included); compatible support or mount operator supplied
Deployment Options	Sloper and Inverted-L Sloper
Tuning	Antenna tuner is required for multiband operation
XFORM 9:1 Power Rating	200 W SSB / 75 W digital

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

1.2

SCOUT XF ASSEMBLY

Before operating, install the included Scout XF mounting base.

01 INSTALL THE FEED POINT



Thread the Scout XF 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 against the top of the Scout XF.

02 COMPLETED XFORM ASSEMBLY



Once assembled, inspect the connection to ensure there is no gap between the Scout XF and the XFORM 9:1.

1.3

KIT CONTENTS & WIRE SYSTEM

Kit contents and installation

INCLUDED COMPONENTS

ITEM	DESCRIPTION	QTY
01	XFORM 9:1 Matching Unit	1
02	XFORM 9:1 Wire Kit (radiator, counterpoise, tent stake, wire winder, extension rope, tensioner, 4x S-Biners, carry pouch)	1
03	Scout XF (XFORM Ready)	1



Figure 1.3.1 REZ-SXF-91-SFK 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.

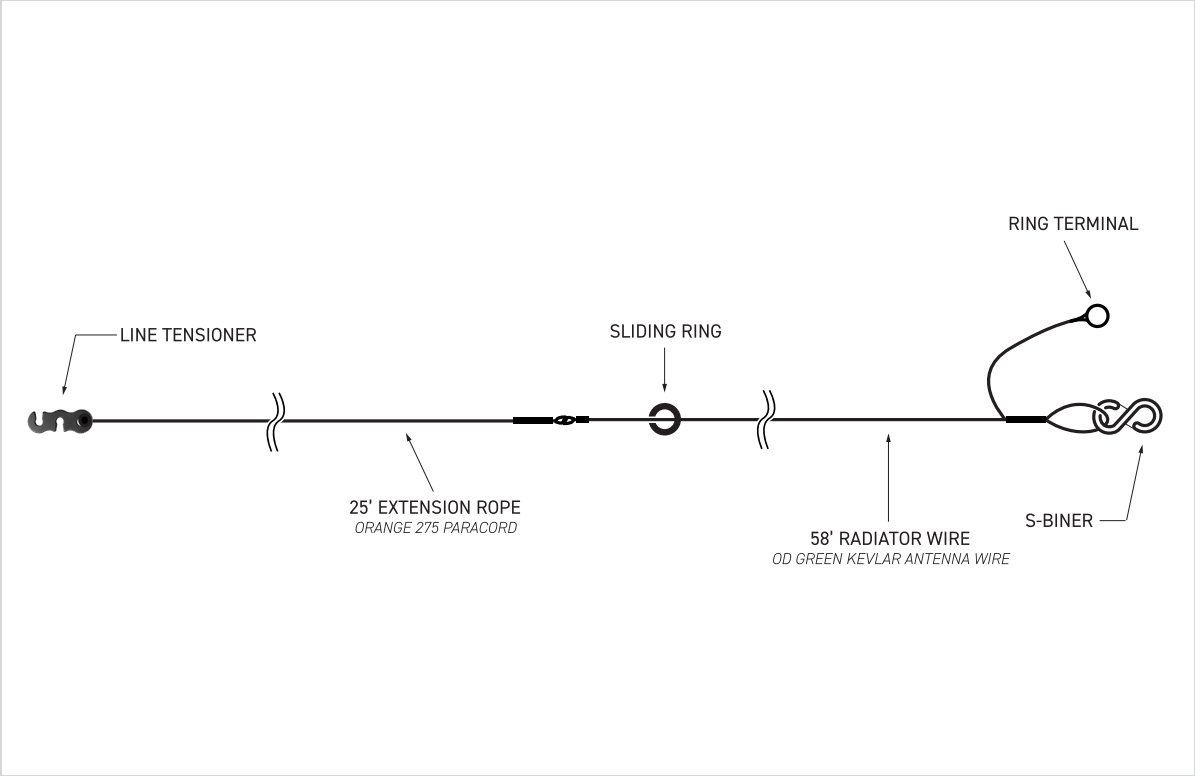


Figure 1.3.2 XFORM 9:1 Radiator Wire Diagram

> **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. Its 4 mm banana plug may be connected to either the XFORM 9:1 counterpoise port or a Scout XF radial port. Both provide the same electrical connection; use whichever is most convenient for the deployment. Route the wire along the ground as shown in the deployment configurations.

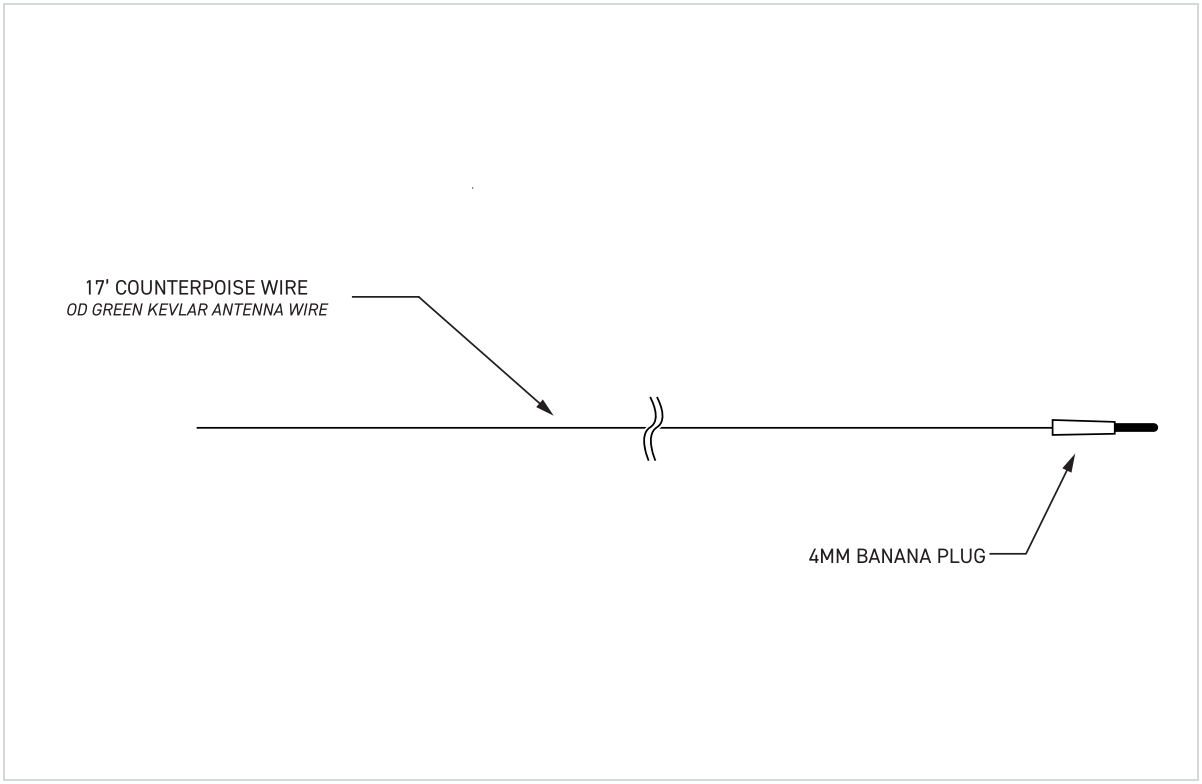


Figure 1.3.3 XFORM 9:1 Counterpoise Wire Diagram

WIRE RADIATOR INSTALLATION

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

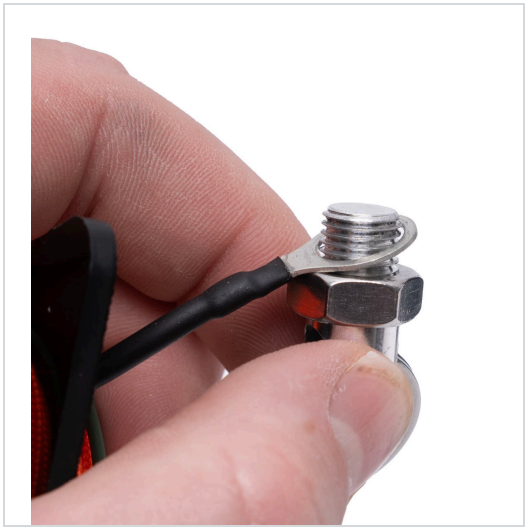
01 INSTALL THE COUPLING NUT



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

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 is 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

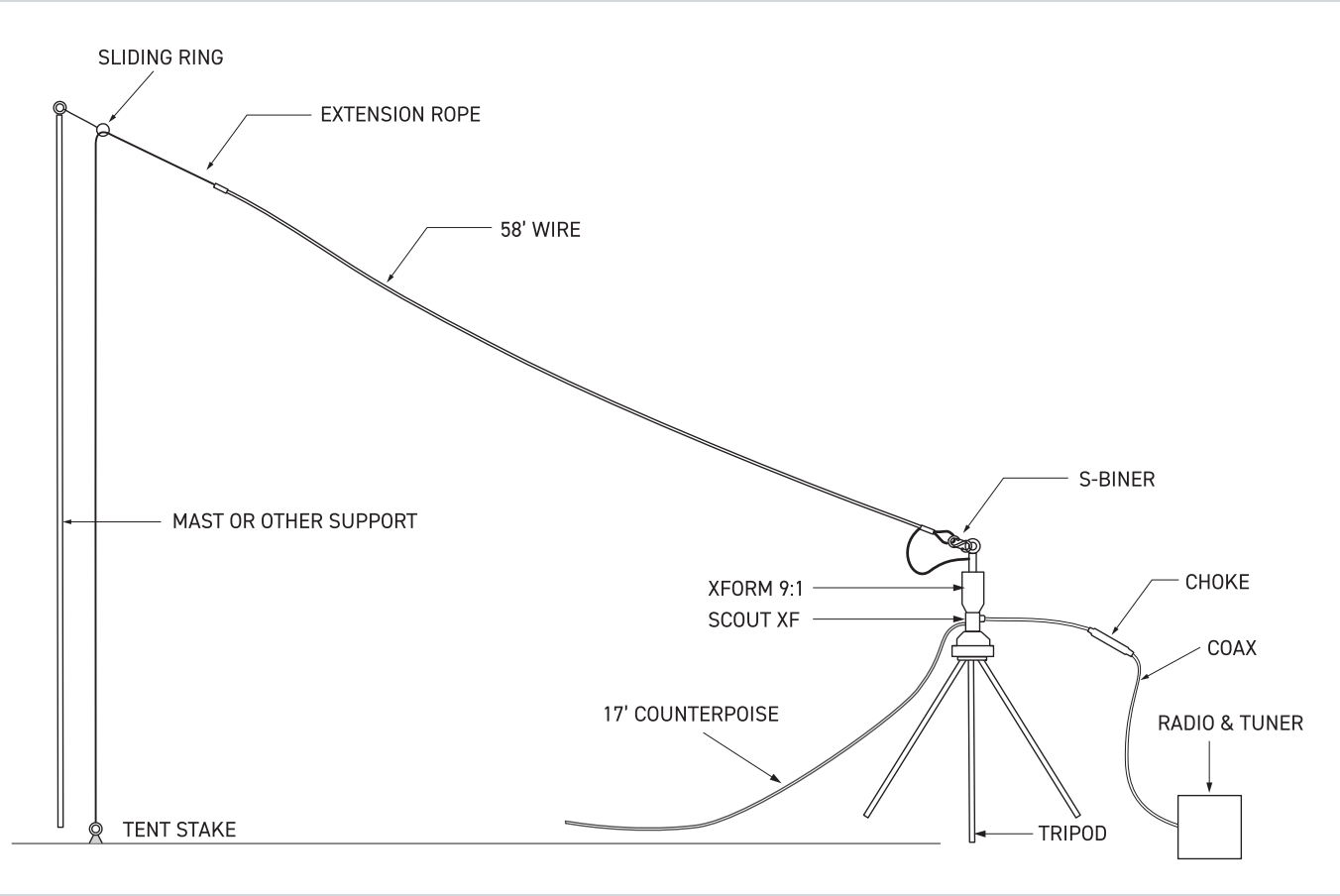
Scout-mounted deployments for portable operating environments.

2.1
Sloper

2.2
Inverted-L Sloper

2.1

SLOPER



Sloper Configuration

DEPLOYMENT

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

OPERATING CHARACTERISTICS

- Rapid Setup
- Deployment-dependent radiation characteristics.
- Requires tuner.
- Multiband operation with tuner; usable bands depend on installation.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	XFORM 9:1 and Scout XF (included)	1
02	Radiator and counterpoise assemblies (included)	1
03	Scout-compatible mount or support (operator supplied)	1
04	Elevated radiator support and hoisting line (operator supplied)	1
05	Common-mode choke and coax (operator supplied)	1

SETUP

01 DEPLOY THE FAR END OF THE RADIATOR WIRE



- Attach an operator-supplied hoisting line to the Sliding Ring.
- Hoist the ring and radiator to approximately 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.

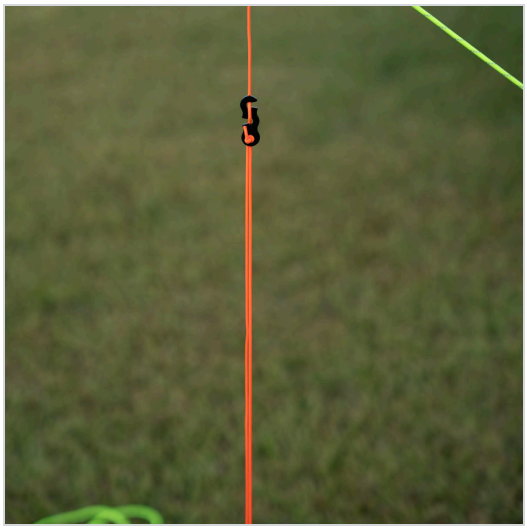
02 SECURE EXTENSION ROPE

After hoisting the Sliding Ring, secure the Extension 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



- Position a compatible mount where the radiator can reach with appropriate tension.
- Secure the assembled XFORM 9:1 and Scout XF to a compatible mount.
- Connect the radiator as described in Section 1.3.
- Connect the 17 ft counterpoise to either the XFORM 9:1 counterpoise port or a Scout XF radial port, then route it away from the radiator.
- Connect a common-mode choke and coaxial feed line to the Scout XF feedpoint.

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.

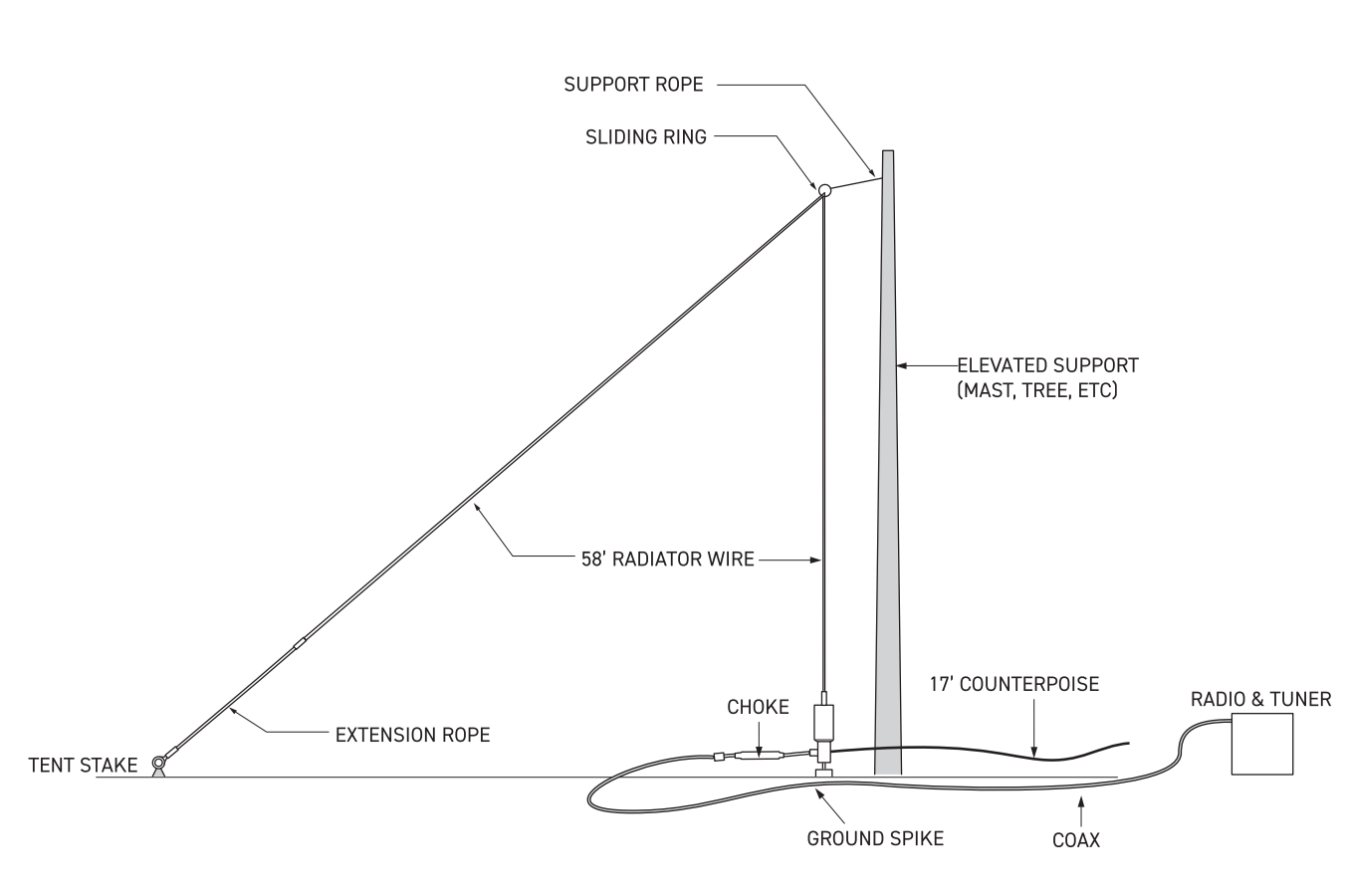
WARNING
Ensure the mount is secured well enough to resist tipping. When using a tripod, point one leg of the tripod in the direction of the wire. A tripod weight is recommended.

04 TUNE AND OPERATE

Follow the tuning procedure on your tuner and begin operating.

2.2

INVERTED-L SLOPER



Inverted-L Sloper Configuration

DEPLOYMENT

- Mount the assembled XFORM and Scout XF on an operator-supplied ground spike.
- Connect radiator and counterpoise.
- Hoist Sliding Ring near elevated support.
- Anchor and tension Extension Rope.
- Connect choke and coax.
- Tune and operate.

OPERATING CHARACTERISTICS

- Mix of low angle and high angle radiation.
- Single support.
- Requires tuner.
- Multiband operation with tuner; usable bands depend on installation.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	Assembled XFORM and Scout XF	1
02	XFORM 9:1 Wire Kit	1
03	Scout-compatible ground spike (operator supplied)	1
04	Elevated support and hoisting line (operator supplied)	1
05	Common-mode choke and coax (operator supplied)	1

SETUP

01 DEPLOY THE XFORM FEED POINT



- Insert the operator-supplied ground spike into the 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.
- Connect the radiator wire to the XFORM as described in Section 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 overtension 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 either the XFORM 9:1 counterpoise port or a Scout XF radial port, then route it away from the 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.

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