REZ ANTENNA SYSTEMS
PRECISION MADE RELIABILITY

OWNER'S MANUAL

Complete Antenna System

XFORM 9:1 End Fed Kit

Portable Random-Wire Antenna System





DOCUMENT
REZ-SXF-91-EFK

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, wire system components, and radiator installation.

1.1
Product Overview

1.2
Direct Feed Assembly

1.3
Kit Contents & Wire System

1.1

PRODUCT OVERVIEW

XFORM 9:1 END FED KIT

The REZ XFORM 9:1 End Fed Kit combines the XFORM 9:1 matching unit, Direct Feed mounting arrangement, and portable radiator and counterpoise system into a complete non-resonant HF wire antenna package. The radiator assembly includes integrated support hardware, and the 17 ft counterpoise provides a practical starting point for field operation.

The kit supports suspended-feedpoint sloper and flat-top deployments using suitable operator-supplied elevated supports and hoisting rope. An appropriate antenna tuner is required for multiband operation.



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
Deployment Options	Sloper and flat-top random wire; alternative arrangements with suitable supports
Compatible Feedpoint	XFORM 9:1 matching unit with Direct Feed (included)
Tuning	Antenna tuner is required for multiband operation
XFORM 9:1 Power Rating	200 W SSB / 75 W digital

WARNING

Observe the power rating of the complete antenna system, including the XFORM transformer, feed line, and tuner. Keep deployed wires clear of power lines.

1.2

DIRECT FEED ASSEMBLY

Prepare the matching unit for suspended deployment

DIRECT FEED INSTALLATION

01 INSTALL THE DIRECT FEED ADAPTER



Thread the Direct Feed onto the XFORM.

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

PREPARING THE DIRECT FEED ASSEMBLY

The Direct Feed Adapter allows the XFORM 9:1 matching unit to be used without a Scout XF mounting base, making it suitable for suspended wire antenna deployments. Install the adapter onto the XFORM before connecting the radiator and counterpoise. Ensure the connection is securely seated before proceeding with antenna deployment.

1.3

KIT CONTENTS & WIRE SYSTEM

Kit contents and installation

INCLUDED COMPONENTS

ITEM	DESCRIPTION	QTY
01	XFORM 9:1 Matching Unit	1
02	Direct Feed Adapter	1
03	XFORM 9:1 Wire Kit (radiator, counterpoise, tent stake, wire winder, extension rope, tensioner, 4x S-Biners, carry pouch)	1
04	Split Ring Loop Support	1



Figure 1.3.1 REZ-SXF-91-EFK 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.

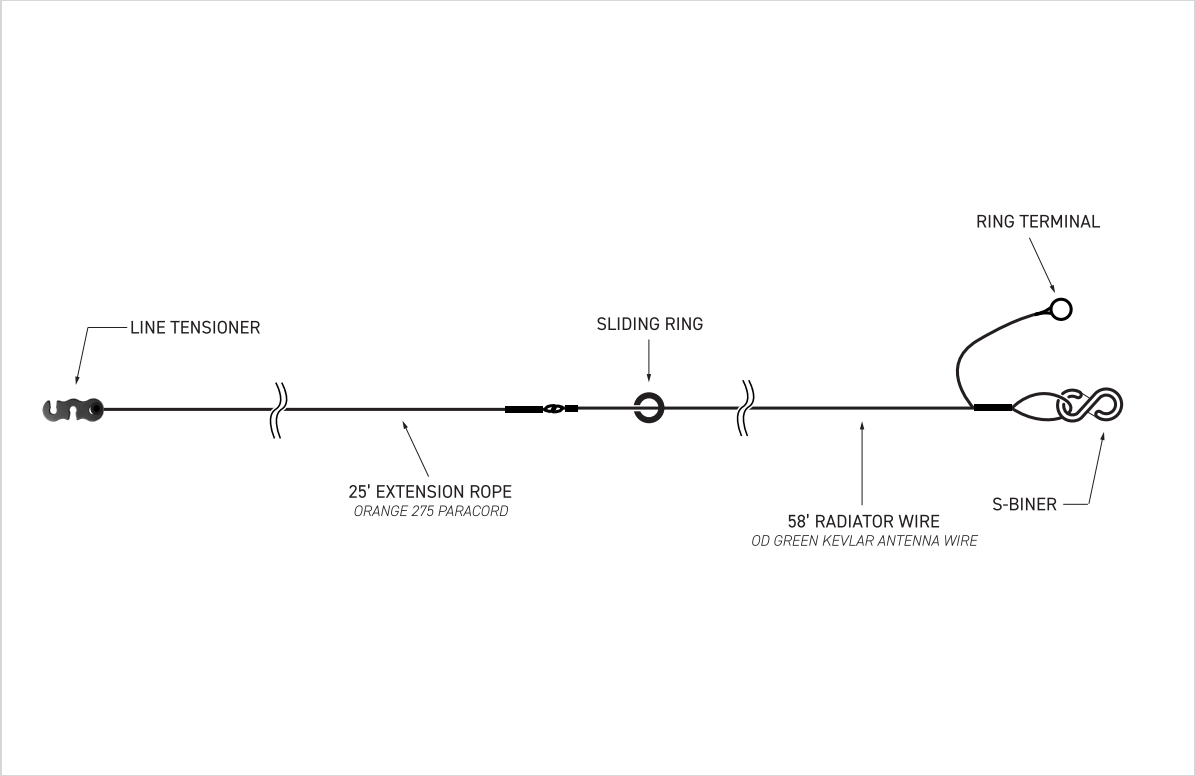


Figure 1.3.2 XFORM 9:1 Radiator Wire Diagram

> **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.

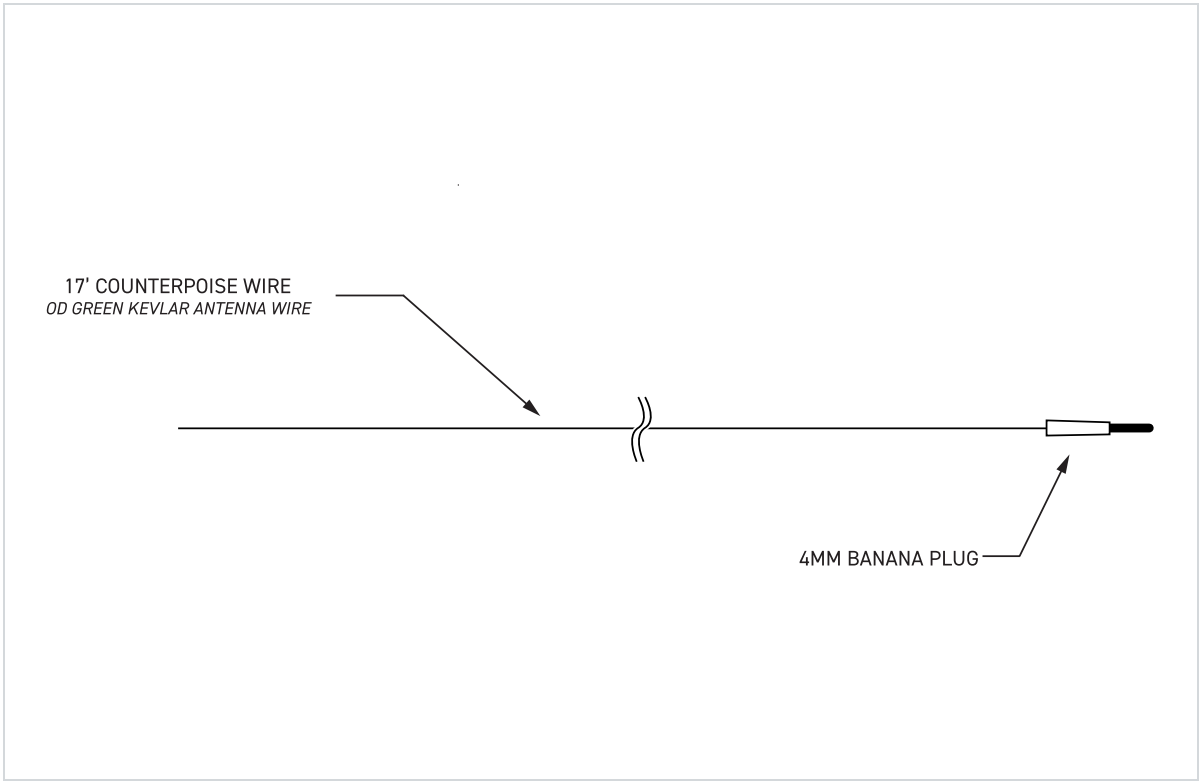


Figure 1.3.3 XFORM 9:1 Counterpoise Wire Diagram

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 enclosure.

02 CONNECT THE RADIATOR RING TERMINAL

While holding the wire tension with one hand, slip the ring terminal over the Split Ring Loop Support's screw. Thread the Split Ring Loop Support into the coupling nut until 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

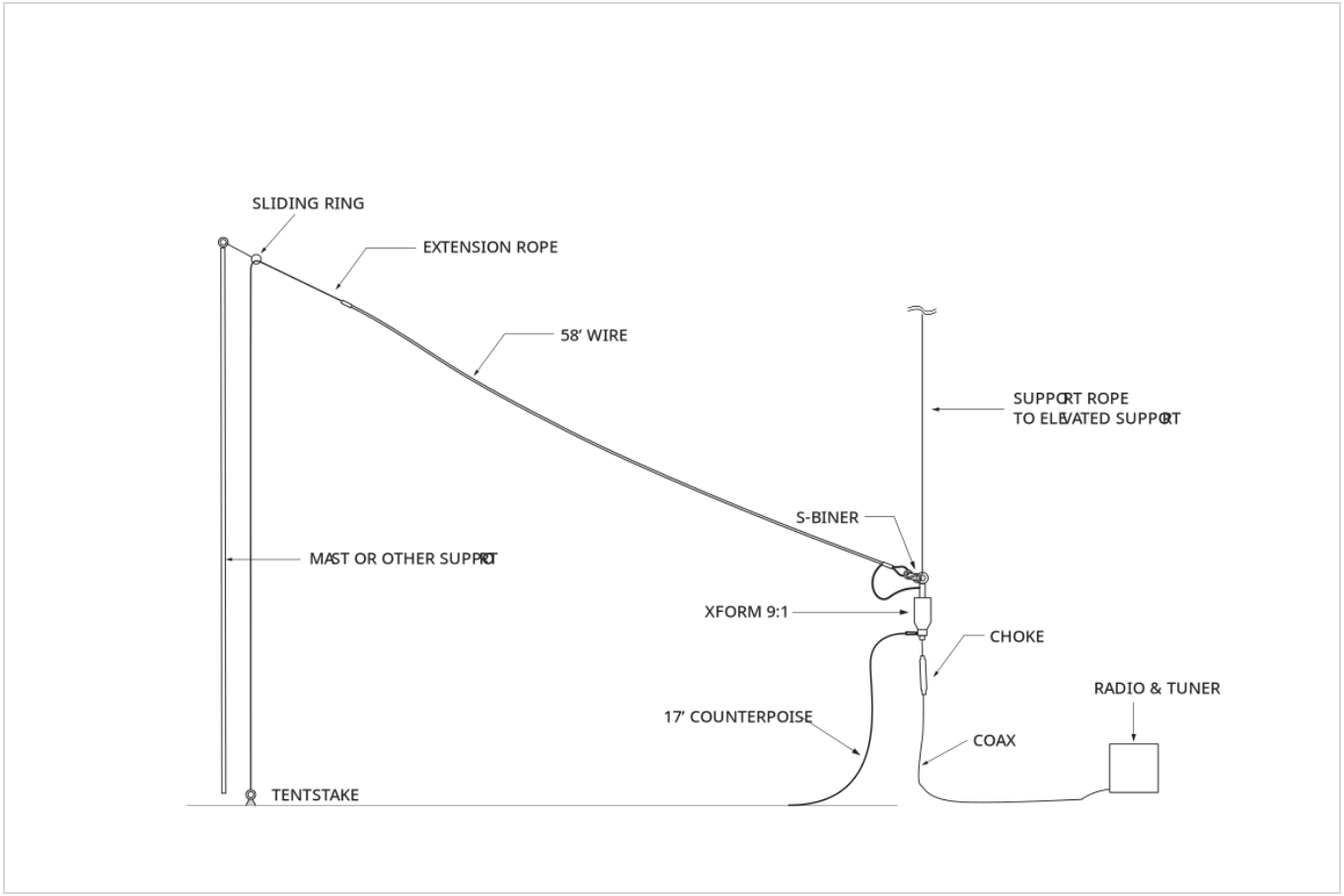
Flexible setups for a variety of operating environments.

2.1
Sloper

2.2
Flat Top Random Wire

2.1

SLOPER



Direct Feed Sloper Configuration

DEPLOYMENT

- Hoist & secure 58' radiator wire.
- Suspend XFORM from elevated support.
- 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	XFORM 9:1 with Direct Feed Adapter	1
02	Radiator and counterpoise assemblies (included)	1
03	Non-conductive Hoisting Rope (operator supplied)	1
04	Elevated support (mast or tree; operator supplied)	As needed
05	Common-mode choke and coax (operator supplied)	1

SETUP

01 DEPLOY THE FAR END OF THE RADIATOR WIRE



- Attach a hoisting line to the Sliding Ring and raise the 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.

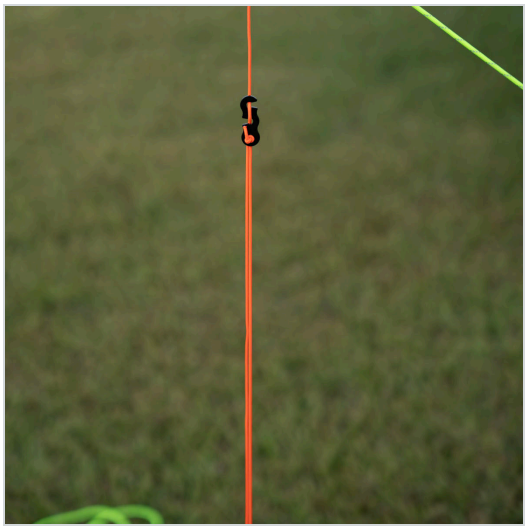
02 SECURE EXTENSION ROPE

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 SUSPEND THE XFORM FEEDPOINT

Prepare the XFORM and Direct Feed assembly at a comfortable working height before raising the feedpoint. Support the matching unit by its designated support point, not by the coaxial connector.

- Attach the radiator wire to the XFORM as described in Section 1.3.
- 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.



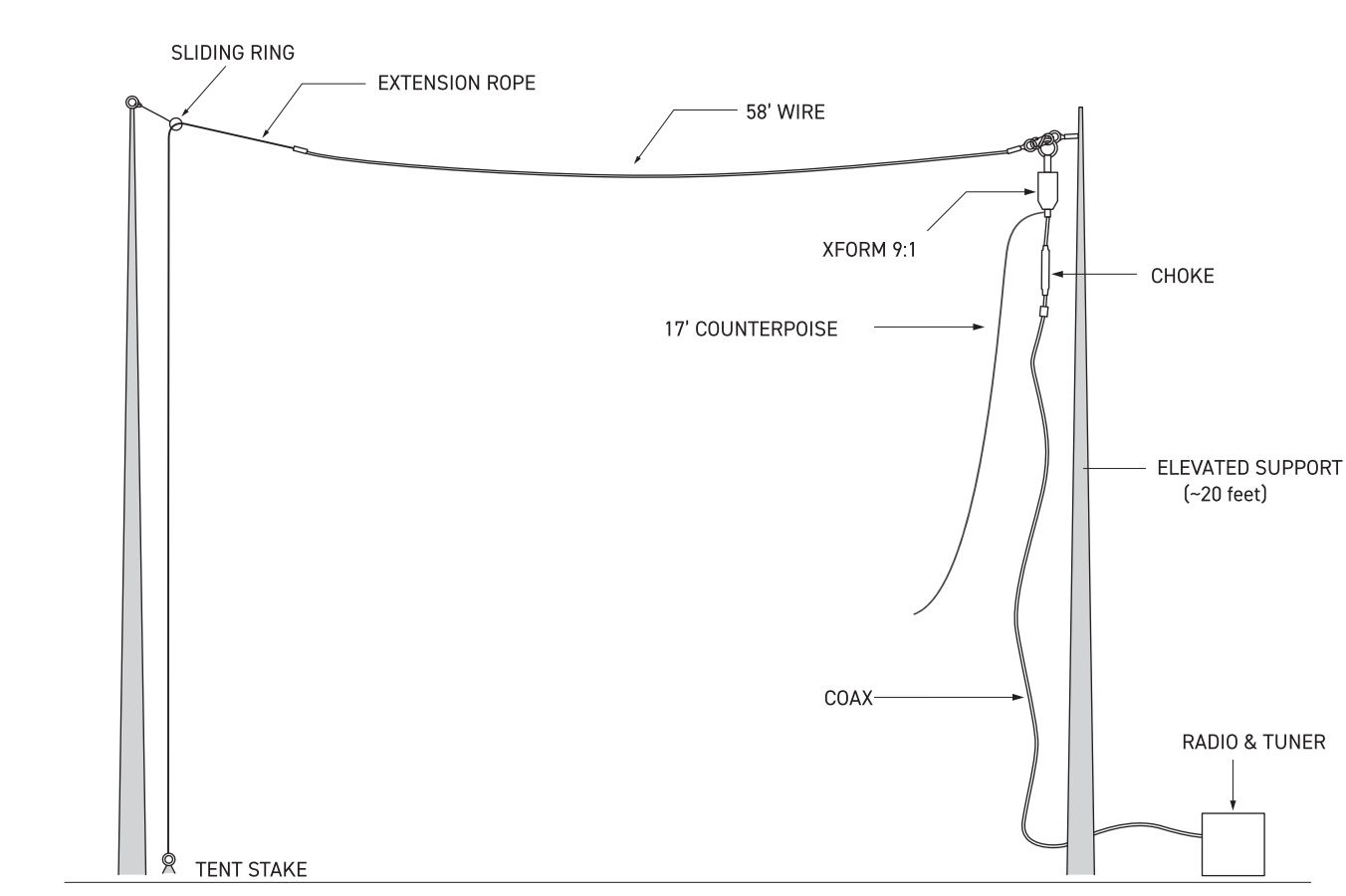


04 TUNE AND OPERATE

Follow the tuning procedure on your tuner and begin operating.

2.2

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.
- Two elevated supports required.
- Requires tuner.
- 40-10M band coverage.

REQUIRED COMPONENTS

ITEM	DESCRIPTION	QTY
01	Assembled XFORM and Direct Feed	1
02	Radiator and counterpoise assemblies (included)	1
03	Hoisting rope (operator supplied)	1
04	Elevated support (mast or tree) (operator supplied)	2
05	Common-mode choke (operator supplied)	1

SETUP

01 DEPLOY THE XFORM FEED POINT

Prepare the XFORM and Direct Feed assembly at a comfortable working height before raising the feedpoint. Support the matching unit by its designated support point, not by the coaxial connector.

- Attach the radiator wire to the XFORM as described in Section 1.3.
- 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.



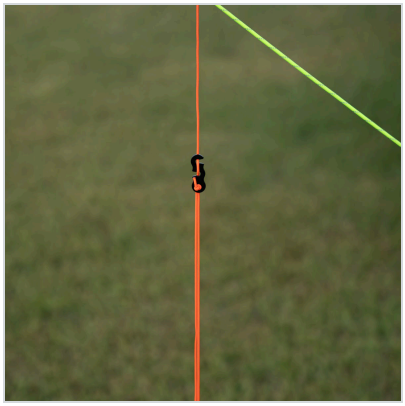


02 HOIST FAR END OF RADIATOR WIRE

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

- Position the tent stake beneath the far-end hoisting point.
- 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