

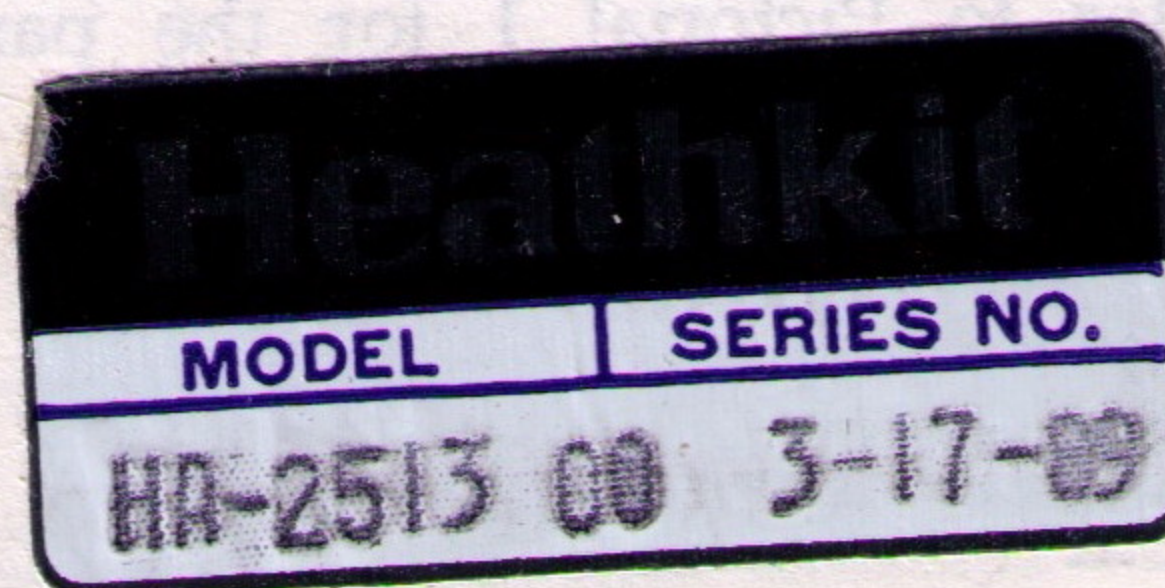
Instructions

for the

Heathkit®

DISCONE ANTENNA

Model HA-2513



INTRODUCTION

The Heathkit Model HA-2513 Discone Antenna is an ultrawideband antenna that works on the amateur radio, air traffic control, marine, public safety, and various other utility bands. You can also use the Antenna for transmitting on the amateur radio bands that are within its operating range.

All major parts of the Antenna are made of stainless steel, so they are rust resistant and durable.

The compact and lightweight design, together with its fast and easy assembly, allow you to quickly install the Antenna at any convenient location.

SPECIFICATIONS

Antenna Design	Wideband, omnidirectional discone.
Frequency Range	25 to 1300 MHz for receiving. (May be used to transmit on the 6M, 2M, 70 cm, 33 cm, 23 cm, amateur, and 900 MHz bands.)
Maximum Diameter	34" (0.86 m).
Required Mast Size	1" to 2" (25 to 52 mm).
Maximum Power Capability	200 watts within the transmittable frequency bands.
Coaxial Cable (supplied)	49' (15 m) of RG-58/U. 20 WATTS ON 6M
Overall Length	67" (1.7 m).
Weight	2.2 lbs. (1 kg).

The Heath Company reserves the right to discontinue products and to change specifications at any time without incurring any obligation to incorporate new features in products previously sold.

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HEATH COMPANY

BENTON HARBOR, MICHIGAN 49022

597-4577

PARTS LIST

Unpack the kit and check each part against the following list. Refer to Pictorial 1 for the parts identification.

To order a replacement part, always include the PART NUMBER. Use the Parts Order Form furnished with this kit.

HEATH Part No.	QTY.	DESCRIPTION	HEATH Part No.	QTY.	DESCRIPTION
230-7926	1	Top element	230-7932	8	Setscrew
230-7927	1	Loading coil	230-7933	1	Allen wrench
230-7928	1	Lockwasher	230-7934	49 ft	Coaxial cable
230-7929	8	Disk element rod (11" long)	230-7935	1	Bracket assembly set
230-7930	1	Apex assembly	230-7936	8	Nut (metric)
230-7931	8	Radial element rod (32" long)		1	Blue and white label
			597-260	1	Parts Order Form
				1	Instruction Sheet (See Page 1 for the part number.)

STEP-BY-STEP ASSEMBLY

Refer to Pictorial 1 while you perform the following steps.

- () Temporarily remove the three phillips head screws and lockwashers from the apex assembly. Then remove the support pipe from the apex assembly.
- () Route one end of the coaxial cable through the support pipe. Then screw the end of the cable onto the apex assembly connector. Be sure the plug on the end of the cable fully seats in the connector.
- () Use the three phillips head screws and lockwashers (removed earlier) to remount the support pipe to the apex assembly.

NOTE: Be careful not to damage the coaxial cable that extends from the bottom of the support pipe while you perform the remainder of the assembly.

- () Slide the bare end of one of the radial element rods (32" long) as far as possible into one of the indicated holes in the apex assembly. Then use a setscrew to secure the rod in place. Use the allen wrench to tighten the setscrew until it is just snug, then turn the wrench 1-1/2 turn more.
- () Use the same procedure to secure the seven remaining radial element rods to the apex assembly.

- () Turn a nut as far as possible onto the threaded end of each of the disk element rods (11" long).

- () Turn the threaded end of a disk element rod as far as possible into one of the indicated holes in the apex assembly. Then use a suitable wrench to tighten the nut against the apex assembly.

- () Similarly mount the seven remaining disk element rods to the apex assembly.

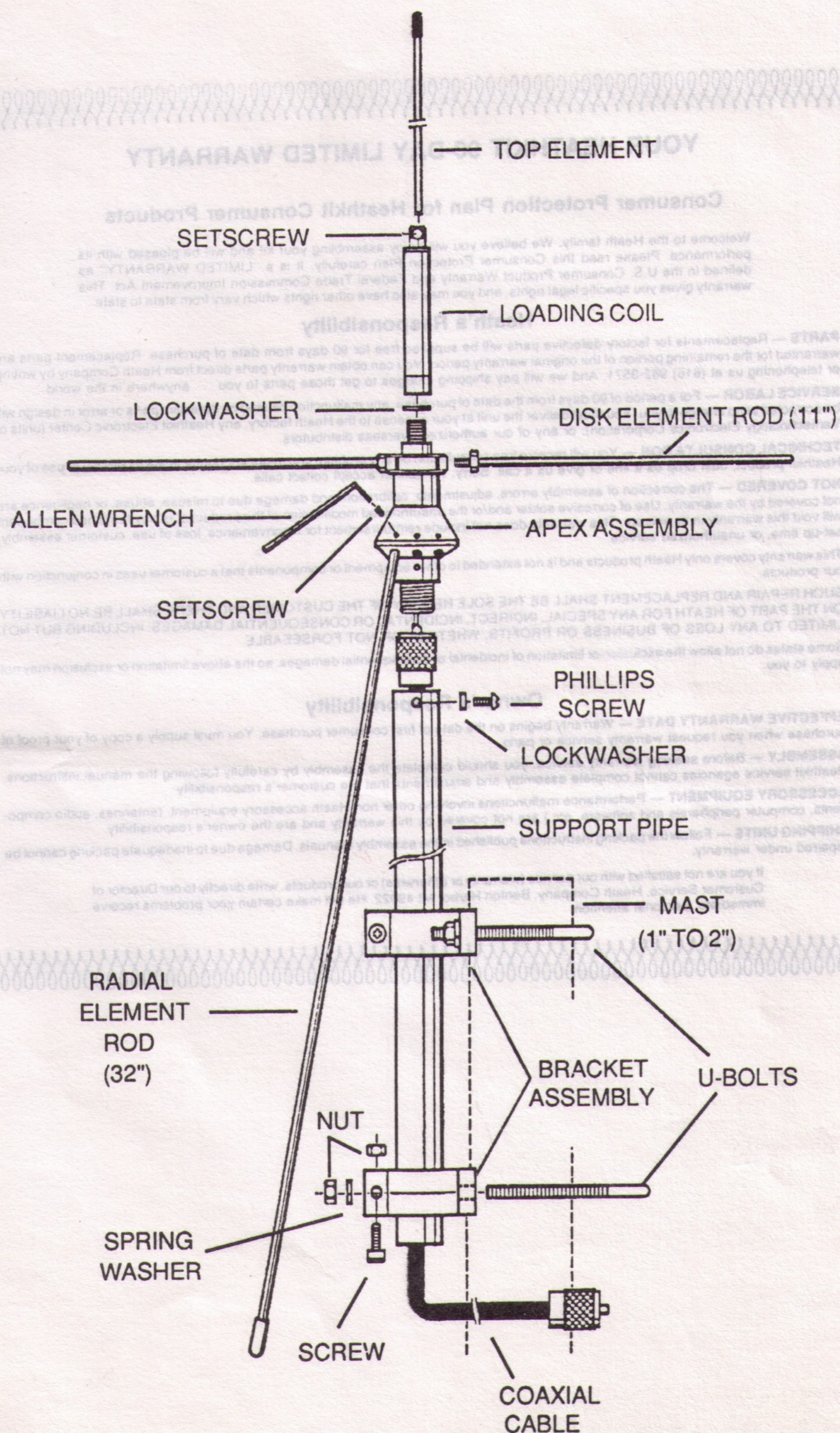
- () Slide the spring washer onto the top of the apex assembly. Then turn the loading coil onto the apex assembly until it is hand tight.

- () Use the allen wrench to loosen the setscrew in the top of the loading coil. Then slide the bare end of the top element into the loading coil and tighten the setscrew.

- () Carefully peel away the backing paper from the blue and white label. Then press the label onto the first page of these instructions. Be sure to refer to the numbers on this label in any communications you may have with the Heath Company about your kit.

- () Use the bracket assembly as shown to mount the Antenna to your support structure, and route the free end of the coaxial cable to your receiver. NOTE: You will have to slide the brackets over the free end of the cable, or you can gently spread the bracket enough to go over the cable.

Heathkit



PICTORIAL 1

YOUR HEATHKIT 90-DAY LIMITED WARRANTY

Consumer Protection Plan for Heathkit Consumer Products

Welcome to the Heath family. We believe you will enjoy assembling your kit and will be pleased with its performance. Please read this Consumer Protection Plan carefully. It is a "LIMITED WARRANTY" as defined in the U.S. Consumer Product Warranty and Federal Trade Commission Improvement Act. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Heath's Responsibility

PARTS — Replacements for factory defective parts will be supplied free for 90 days from date of purchase. Replacement parts are warranted for the remaining portion of the original warranty period. You can obtain warranty parts direct from Heath Company by writing or telephoning us at (616) 982-3571. And we will pay shipping charges to get those parts to you . . . anywhere in the world.

SERVICE LABOR — For a period of 90 days from the date of purchase, any malfunction caused by defective parts or error in design will be corrected at no charge to you. You must deliver the unit at your expense to the Heath factory, any Heathkit Electronic Center (units of Veritechnology Electronics Corporation), or any of our authorized overseas distributors.

TECHNICAL CONSULTATION — You will receive free consultation on any problem you might encounter in the assembly or use of your Heathkit product. Just drop us a line or give us a call. Sorry, we cannot accept collect calls.

NOT COVERED — The correction of assembly errors, adjustments, calibration, and damage due to misuse, abuse, or negligence are not covered by the warranty. Use of corrosive solder and/or the unauthorized modification of the product or of any furnished component will void this warranty in its entirety. This warranty does not include reimbursement for inconvenience, loss of use, customer assembly, set-up time, or unauthorized service.

This warranty covers only Heath products and is not extended to other equipment or components that a customer uses in conjunction with our products.

SUCH REPAIR AND REPLACEMENT SHALL BE THE SOLE REMEDY OF THE CUSTOMER AND THERE SHALL BE NO LIABILITY ON THE PART OF HEATH FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO ANY LOSS OF BUSINESS OR PROFITS, WHETHER OR NOT FORSEEABLE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Owner's Responsibility

EFFECTIVE WARRANTY DATE — Warranty begins on the date of first consumer purchase. You must supply a copy of your proof of purchase when you request warranty service or parts.

ASSEMBLY — Before seeking warranty service, you should complete the assembly by carefully following the manual instructions. Heathkit service agencies cannot complete assembly and adjustments that are customer's responsibility.

ACCESSORY EQUIPMENT — Performance malfunctions involving other non-Heath accessory equipment, (antennas, audio components, computer peripherals and software, etc.) are not covered by this warranty and are the owner's responsibility.

SHIPPING UNITS — Follow the packing instructions published in the assembly manuals. Damage due to inadequate packing cannot be repaired under warranty.

If you are not satisfied with our service (warranty or otherwise) or our products, write directly to our Director of Customer Service, Heath Company, Benton Harbor MI 49022. He will make certain your problems receive immediate, personal attention.