



Cat. No. 20-006A



Telescoping Antenna for Portable Scanners and Walkie Talkies

You can use this telescoping antenna for either receiving or transmitting. You can use it as a *receiving* antenna from 25 MHz through the 1296 MHz Ham Band, and you can use it as a $\frac{1}{4}$ wavelength *transmitting* antenna from 130 MHz through 535 MHz.

USING THE ANTENNA FOR TRANSMITTING

For transmitting, you must set the antenna length as close as possible to the transmitting frequency's $\frac{1}{4}$ wavelength. This ensures the best possible transmission by using the proper standing wave ratio (SWR).

Cautions:

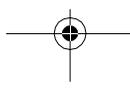
- When you use the antenna to transmit, you must always collapse the section located just above the loading coil. If you do not, you might damage the antenna and/or your radio.
- When you use the antenna to transmit, you must calculate the $\frac{1}{4}$ wavelength and adjust the antenna length accordingly. If you do not do this, you can damage your transmitting equipment due to an improper standing wave ratio (SWR).

Use this formula to calculate the proper length for a $\frac{1}{4}$ wavelength transmitting antenna:

$$\frac{2834}{\text{Freq. in MHz}} = \text{Antenna Length in Inches}$$

Example: $\frac{2834}{147 \text{ (MHz)}} = 19.3 \text{ Inches}$

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USING THE ANTENNA FOR RECEIVING

For the best reception, adjust the antenna length as shown below.

Frequency	Antenna Length
25–50 MHz (VHF Low) 50–54 MHz (Ham) 108–136 MHz (Aircraft)	Extend All Nine Sections
138–144 MHz (Government) 144–148 MHz (Ham) 148–174 MHz (VHF High)	Extend Only the Top Four Sections
220 MHz (Ham) 380–450 MHz (UHF Low) 470–512 MHz (UHF TV) 800–900 MHz 1296 MHz (Ham)	Extend Only 1 to 3 Lower Sections

RadioShack Limited Warranty

This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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