

# W8AMZ

## Amateur Radio Products

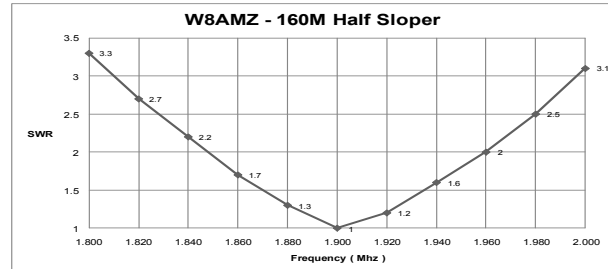
www.w8amz.com

231-855-0281

# 160M Reduced 1/2 Sloper KIT

### Common Specifications:

- Ideal for up to 1kw SSB maximum
- #14 stranded copper wire per NEC code
- All black wire for easy concealment
- High quality SO-239 connector for direct coax



### INSTALLATION CONSIDERATIONS

If you have 45' of space and have the ability to hang an antenna from a tower or tree around 40-45' high, then you can be operating on 160M in no time flat.

The reduced 1/2 Sloper is for 160M operation where space is limited. While a full size 160M dipole requires a minimum of at least 260' this antenna can be installed in as little as 45'. It provides a good compromise and makes it possible for hams with limited space to get on 160M with good results.

The 160M 1/2 Sloper needs to be mounted on a tower or tree at least 40'—45' high with a ground wire attached directly to the tower. If mounted in a tree it will be necessary to run a wire down to a suitable ground rod. The radiating element runs to the ground at approximately 45°. Each antenna includes 70' of wire to allow for fine tuning to achieve best SWR, usually approximately 68'.

**W8AMZ 160M 1/2 Sloper Kits** are designed to meet NEC code and are made of high quality components, including black insulated 14-gauge stranded copper wire. National Electrical Code requires a minimum of 14 gauge wiring for permanent residential installation.

**W8AMZ 160M 1/2 Sloper Kits** are rugged, and designed to withstand high winds and rough weather. The included light weight, high quality, PVC dog-bone insulator is 100% UV-stable unlike Nylon insulators.

**W8AMZ 160M 1/2 Sloper Kits** are designed to handle up to 1kw SSB maximum.

**W8AMZ 160M 1/2 Sloper Kits** require fine tuning to achieve best SWR.

The W8AMZ Dipole Antenna Kit is proudly made in the USA

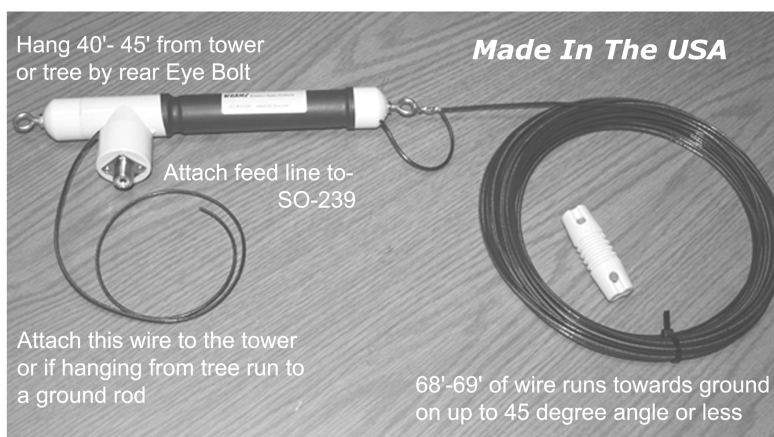
Even more so, all except two components of this antenna are USA manufactured

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### INSTALLATION

1. Cut the main antenna element to length plus about 6 inches. Approximately 68.5' is a good starting point.
2. Insert cut end of wire through end of insulator.
3. Strip approximately 6 inches of insulation off of the wire going through the insulator and secure the end by wrapping about 2 to 3 turns back on the bare section of wire.
4. Cut off excess wire and solder wrapped portion. Use care not to melt the insulator.
5. Connect rear eyelet securely to a tower or tree. Optimum height should be between 40' - 45'
6. Strip the end of the ground wire (short wire) and bond directly to the tower to create a good ground connection. If mounting in a tree or other non-conducting structure it will be necessary to run a wire directly down to a ground rod. Regardless of whether mounted directly to a tower or using a ground wire, connecting this ground lead is not **optional**, it is absolutely **required** as this forms the counterpoise. The addition of radials is not necessary but will improve operation.
7. Attach a 50-75 ohm coax to the SO239 connector on the bottom of the center insulator.
8. Weatherproof adequately with Self Sealing Coax Heat Shrink Tubing w/internal sealer, available from **W8AMZ Amateur Radio Products** or a coax sealing type of product, or line contamination will occur.
9. Attach rope to the end insulator of the antenna and tie off so that the radiating element is at approximately 45°.

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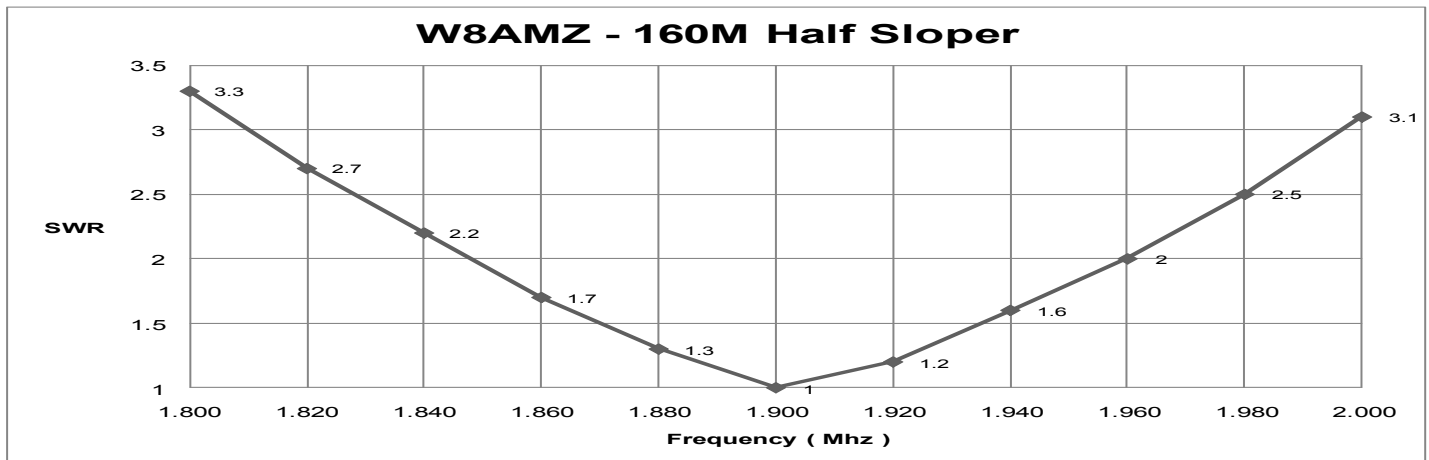
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## 160M Reduced 1/2 Sloper KIT

The connection to tower or to ground rod provides a ground for radio frequencies only. This ground is NOT intended to protect against lightning strikes. Always disconnect the antenna system during electrical storms.



There are two common methods for tuning a reduced 1/2 sloper antenna. Feel free to use one or the other or even a combination of both, depending on your installation considerations.

**Method 1**— Fix the antenna wire at 45° and trim the end, or add a tuning stub to the end to achieve best SWR.

**Method 2** — Cut the wire to length (approx 68.5') and raise or lower the end to vary the downward angle.

If properly tuned for best SWR an antenna tuner should not be necessary.

## CAUTION

**ERECT ALL ANTENNA PARTS OUT OF REACH OF PEOPLE AND ANIMALS  
POWER LINES ARE DEADLY! STAY AWAY FROM POWER LINES!  
STAY AWAY FROM ANTENNA WHEN TRANSMITTING  
MARK ALL ANTENNAS AND FEEDLINES AS DANGEROUS**

**CAUTION – High Voltage will be present  
on antenna when transmitting  
so locate accordingly.**

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