



Thank you for buying a Mountain Tuner from SOTABEAMS. it has been designed to make your portable adventures even more fun. Like all our products, it's the result of a lot of experience and thought which we aim to bring together into our designs. It will give you great performance on 40-30-20-17m.

The half-wave end fed is a popular antenna for portable operating. It can be made into a very lightweight system that is ideal for mountain adventures. Although, we describe the tuner as a half-wave tuner, in many cases you will be able to tune it to two bands giving you a little extra flexibility.

Take a look at the tuner, it has some interesting design features. The three holes at each end have been included to give you some flexibility in how you use your tuner. Pegging the tuner down can be useful in some situations while an elevated feed system is preferred by some users. Whatever suits you, the Mountain Tuner has it covered.

Your half-wave should be connected to the red terminal and the counterpoise to the black terminal. The counterpoise does not need to be very long. 2 metres (6 feet) will be fine in most cases. It's not critical where the counterpoise is placed either, just make sure that it is laid out as straight as possible. Attach a coaxial cable from the Mountain Tuner goes straight into your radio. Using the tuner is really simple. Just tune for maximum noise on the band you are using and you're good to go. Half-wave tuners are very frequency selective so the correct match is easy to find by ear. No SWR indicator is needed! If your radio does have an SWR meter you will soon see just how easy the tuning is. If you move from one end of the band to the other, you may need to re-adjust the tuner.

The Mountain Tuner is designed for low power use only. Don't exceed 6 Watts as you may destroy the tuning capacitor.

The unit is sealed to keep water out. It is not suitable for use underwater but it will be fine in the rain.

Along with the tuner we provide 4mm plugs. We have also included a few of our special insulators these make constructing you own antenna easy!

Recommended antenna lengths

Band	Length
40m	20.3 m
30m	14.2 m
20m	10.1 m
17m	7.9 m

Counterpoise: use 2m on 40/30m and 1m on the other bands. The length is not at all critical.

Precautions

If pegging the Mountain Tuner be careful not to put any strain on the plastic casing as it can crack.

Do not use your Mountain Tuner where lightning is possible.

More

For more information on half-wave end-fed antennas, read our article at:

<http://www.sotabeams.co.uk/efhw/>