To manufacture the 2m/70cm portable/mobile whip antenna you need an 80cm long stainless steel rod (Welding rod with a diameter of 1.5mm V2A oder V4A).

The whip must be of one peace.

At first you should wind the one turn coil starting by 10 cm from one of the ends. Coildiameter is 30 mm. After that you must pull the end of the winding 10mm apart. The beginning and the end of the coil must be bend as shown in the picture and drawing.

The straight sections of the whip beneath and over the coil must be in line to each other. After bending and forming, cut the lower section to a length of 6.2 cm and the upper section to 39 cm, the upper section will have to be shortened to the resonant frequency for 2m (USA 146.000MHz).

File and sharpen the end to have approximately the same shape like the inner conductor of a BNC-Plug. When the whip is ready, cut a 8mm long peace of insulation from a high voltage cable, pull out the inner conductor and sleeve it over the rod to fit between the nut and the BNC plug, skew them together abt. 8mm high voltage insulation. (remove inner conductor).

This antenna works as a 1/4 wavelength on 2m and a 5/8 wavelength on 70 cm.

Have a look at the pictures on the second page!!
Enjoy homebrewing this

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