

N4UJW



"TRY IT...YOU'LL LIKE IT!"

**FELL FREE TO COPY
ANY OR ALL
THE INFO ON THIS
PAGE AND LET US
KNOW HOW IT
PERFORMED!
LISTENING FOR YOU
ON 2 SSB**

AF4AR/W6ARQ KC5BBP "modified" 2 METER SQUARE LOOP

*GET ON 2 SSB IN STYLE WITH THIS NEEEEET AND STURDY PLUMBER'S
DELIGHT RF PROJECTOR !
LOOK DOWN BELOW FOR ALL THE GOODIES!*

THE FRUIT OF THEIR EFFORTS



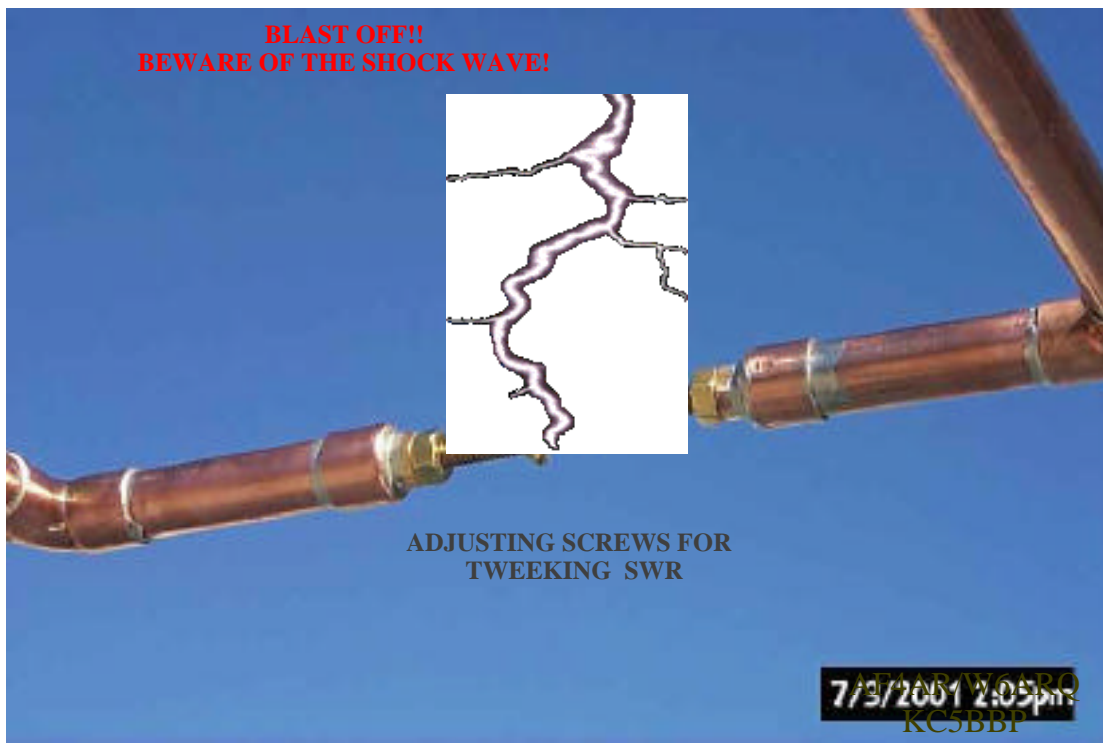
AF4AR USES
THIS ANTENNA
MOBILE ON A
18 WHEELER
FILM AT
ELEVEN!

AF4AR/W6ARQ
KC5BBP

VIEW FROM THE EARTH



GAMMA MATCH



**MIKE (AF4AR)
RICK (KC5BBP)
JOHN (W6ARQ)**
CAN BE FOUND ON THE 146.67MHZ
NASHVILLE, TN AREA
MACHINE MUMBLING SOMETHING
ABOUT GRID SQUARES AND DX IN
THEIR SPARE TIME!

**EMAIL THEM
FOR QUESTIONS**



**THESE INSTRUCTIONS WILL GET YOU ON YOUR WAY
TO 2 METER SSB EXCITEMENT!.**

Here are the building instructions on the 2 meter square loop.

Credit is given to K0FF for most of this design.

We have added modifications that proved useful in the design.

The mods will be presented under modifications in the design instructions. Special thanks to **W6ARQ** and, **KC5BBP** for their input on this Antenna.

2 Meter Square Dipole by K0FF

Here is the parts list and dim. sheet for the 2 meter square dipole, made of copper water pipe.

Parts List

1/2 Inch Copper Water Pipe
 Long Sides 9 1/2 inches
 Open Ends 3 1/4
 2 Short Pieces on each side of "T" 4 7/16
 4-90 Degree Elbows
 2-Copper Caps
 1 Copper Tee
 Brass Plate for SO239
 Gamma Tube 4 3/4 of 3/8 Copper Tubing
 RG8 is 5 1/2 inches long
 Copper or Brass Gamma Tube Bracket
 SO239

Modification Parts (DO NOT USE STAINLESS STEEL)

6 Brass Nuts-Note Any size
 2 Brass Screws at least 1 1/2 long

Instructions The mounting array to be affixed to a standard mobile mast that presents 3/8 X 24 threads.

Run coaxial cable right to the antenna and connect it to the built in SO-239.

There are two adjustments on the Antenna to match the coax Imp.

Adjust the Gamma Match Tube for Lowest SWR, then the tuneable stubs move in or out for lower swr.

Do not use Stainless Steel Screws, Soldering them to the end caps is almost impossible.

The 2 meter square loop is a folded Dipole around itself.

The shape is 11" X 11".

Solder the antenna parts together using 90 degree elbows at the corner open ends and mind the gap.

All measurements are critical. The brass plate to hold them form an "L" 1-3/4" tall with a 1/2" lip.

A 5/8" hole is provided 1-1/4 inch from the bend, and attached using stainless steel or brass hardware.

Two small holes are drilled in the lip and mounted to the copper TEE with #6 self tapping screws.

Solder the 5 1/2 inch piece of RG8 to the SO-239.

When using the RG8 discard the outer shield and use only the Dielectric. Slip the RG8 inside the 4-3/4 Gamma Tube.

The Gamma bracket should be at least 1 1/2" long brass or copper.

Secure with stainless steel screws right before the 90 degree elbow.

Either side doesn't matter.

The Gap between the Open Ends is 2-3/8".

Adjustments to the gap in or out can be made with the modification of installing the brass screws on the end caps.

The Antenna is more or less Omni Directional and horizontally polarized.

It presents a high takeoff angle and is intended for use in the 144.200mhz area.

The Antenna can handle 100 Watts and has proved useful in working some satellites such as AO-27.

The Antenna provides excellent SSB results while mobile and have talked with other stations 200 miles with similarly equipped Antennas.

For further Information on assembly or instruction details Email the following hams below.

Af4ar@att.net

W6arq@edge.net

Kc5bbp lives too far back in the hills of Tennessee to get daylight...much less email!!!!

I have [Email Me](#) na works very well and, is a solid performer.
Best of luck with your Antenna.

EXPERIMENT! EXPERIMENT! EXPERIMENT!

73
Mike Gunter/Af4ar
Murfreesboro, Tn

***MODIFICATIONS TO MODIFICATIONS
BY W6ARQ IN THE WORKS...
STAY TUNED!***

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STAY TUNED!***

[AF4AR WEB SITE](#)

***PLEASE DON'T EMAIL ME FOR
QUESTIONS PERTAINING TO THIS
ANTENNA..GO TO THE EXPERTS
ABOVE!!***

[N4UJW](#)

CREDITS

***PHOTOS>>>>>W6ARQ
HARD WORK>>>>AF4AR W6ARQ KC5BBP
PAGE "MASTER">>>>N4UJW
(from an article by KOFF on EHAM.NET)***

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