

Another Simple 1200 MHz Mobile Antenna

Kent Britain WA5VJB

This is a vertical collinear antenna similar to many of the common cellular phone antennas. I built mine out of welding rod, but any wire about 1/16" diameter could be used.

The mount can be any magnet mount that does not contain a matching network for the antenna. This could be a problem with some CB magnet mounts. Bet you're not used to having to allow for the thickness of your magnet - welcome to 1200 MHz!

Mount the rod such that the phasing section (yeah, it looks like a coil but it's really a phase delay like those stubs sticking out the side of a Ringo Ranger) will start 3.5" above your roof. Willing to drill holes in your car? Just start the phasing section at 3.5 inches.

If you can measure SWR at 1200 MHz, tweak for lowest SWR not by trimming the end, but by expanding or compressing phase delay section. Carefully built to the dimensions, the SWR is typically 1.5 to 2.0, gain is about 6.0 dBi.

See, 1200 MHz is EASY!!

