

## Crappie Pole Antenna

- \* 13 foot Walmart Crappie Pole
    - B'n'M 13' Black Widow Crappie Rig \$8.96 (4/3/2012)
  - \* Swivel snap
  - \* 52" #22 stranded insulated wire
  - \* 104" #22 stranded insulated wire (Try #12)
  - \* 2" of 1/2" schedule 40 electrical conduit
  - \* 14 turns tight wound on 2" form
    - (3.8-4uH) the wire is from CAT5 cable
    - Wind the coil at one end of the form
  - \* 2 6-32 screws
  - \* 2 6-32 nuts
  - \* 2 ground lugs # to secure coil winding ends
- ==> To assemble
- # Extend the pole
  - # Loop the 52" wire through the snap on the swivel snap where the swivel is connected. Solder the loop.
  - # Solder or clip the non swivel snap end of the wire to the short end of the coil
  - # Solder or clip the 104" wire to the long end of the coil
  - # Clip the swivel snap to the pole top loop
  - # stretch out the antenna and masking tape the coil to the pole
  - # stretch out the 104" wire masking taping it to the pole

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## MMANA Script

### 20m Pedestrian Mobile Whip

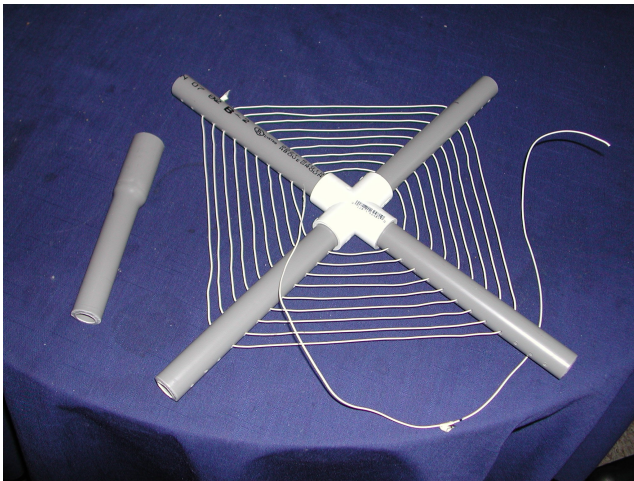
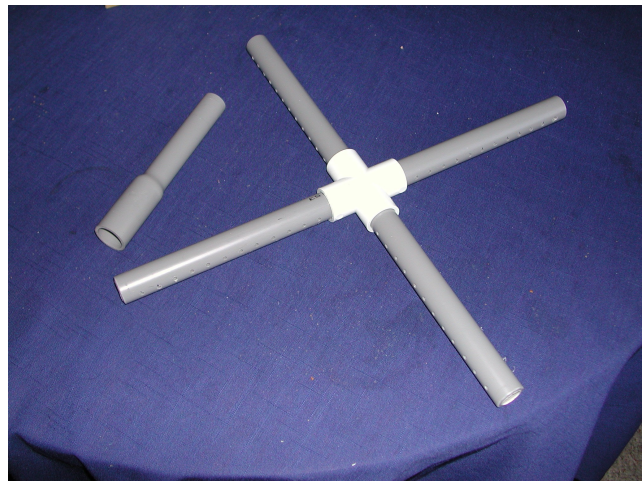
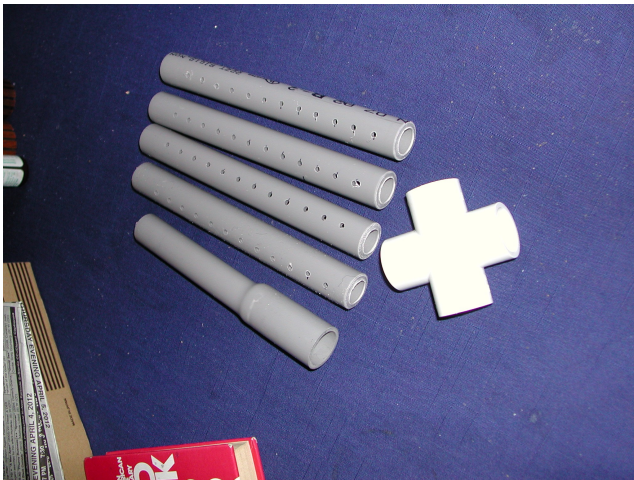
```
*
14.174
***Wires***
4
0.0, 0.0, 0.0, 0.0, 1.867, 1.867, 2.020e-04, -1
0.0, 1.937, 1.937, 0.0, 2.8, 2.8, 2.020e-04, -1
0.0, 0.0, 0.0, 5.03, 0.0, 0.0, 2.020e-04, -1
0.0, 1.867, 1.867, 0.0, 1.937, 1.937, 2.020e-04, -1
***Source***
1, 1
w1b, 0.0, 1.0
***Load***
1, 1
w4b, 0, 8.4087, 0.0, 100.0
***Segmentation***
800, 80, 2.0, 1
***G/H/M/R/AzEl/X***
2, 3.3, 1, 50.0, 120, 60, 0.0
###Comment###
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Mod by Tom Berger, K1TRB 3/25/2012 11:57:09 AM  
Created by Tom Berger, K1TRB 3/21/2012 3:08:33 PM

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## Spiral coil

- \* 202" wire for coil
- 190" wire on coil (#22 stranded insulated wire)
- 12" more for connection from center
- \* 4 7" lengths of 1/2" schedule 40 electrical conduit
- drill 12 1/8" holes along each pipe beginning at 1"
- Spaced 1/2" apart
- The 1" end goes into the fitting
- \* 1 + fitting 1/2" schedule 40 pipe
- ==> Winding coil
- # The frame is built just by pushing parts together, no need to glue
- # Wind from center outward
- # Leave 12" of wire free to begin (for connection to coil)
- # The coil will be pruned to resonance



## Pole stand

- \* 7 16" lengths 1/2" schedule 40 electrical conduit
- \* 4 end caps 1/2" schedule 40
- \* 3 Tee fitting 1/2" schedule 40 (threaded at T base)
- \* 3 end adapters 1/2" schedule 40 to threads
- \* PVC pipe glue

==> Making the stand

Glue 2 lengths to each of the 3 Tee's

Glue 4 end caps on 2 of the 3 pipe-Tee-pipe lengths

Glue 2 end adapters on 1 of the 3 pipe-Tee-pipe lengths

Glue 1 end adapter on the extra pipe length

==> To assemble

# Screw the 2 end capped lengths to the ends of the adapter pipe

# Screw the extra pipe to the center of the adapter pipe

