

ALL DIMENSIONS SUBJECT TO CHANGE VARIES DEPENDING ON MFG

3 ELEMENT TAPE MEASURE YAGI

changes by KUZY

Parts List

- Approx 3ft 1/2" Sched 40 PVC Pipe (**pre cut**)
- ~~2~~ **PVC NON-Threaded Caps (1/2")**
- ~~3~~ **PVC Cross Tee 2x and 1x Tee**
- 1" Wide Tape Measure (At least 10' Long)
- Variable Length of RG-58 Coax Cable
- ~~6~~ **Stainless Steel Hose Clamps (Adjustable from 7/8 - 1-1/4" or Near) 2x**
- 5" of #14 or ~~#12~~ **AWG Solid (Non-Stranded) Wire**

Tools List

- ~~Solder~~
- Sand Paper (Between 60-120 Grit)
- ~~(Optional) Dremel/Rotary Tool with Sanding/Grinding Bit~~
- Electrical Tape
- ~~PVC Primer / PVC Glue (Optional)~~
- ~~zip ties~~
- ~~PVC Cutter / Saw~~
- Marking device (Sharpie)
- Tin Snips (Aviation Snips) or Shear
- ~~Soldering Iron~~
- Screwdriver (Flat Head)

Cutting / Assembly Instructions

(Refer to Page 2 and 3)

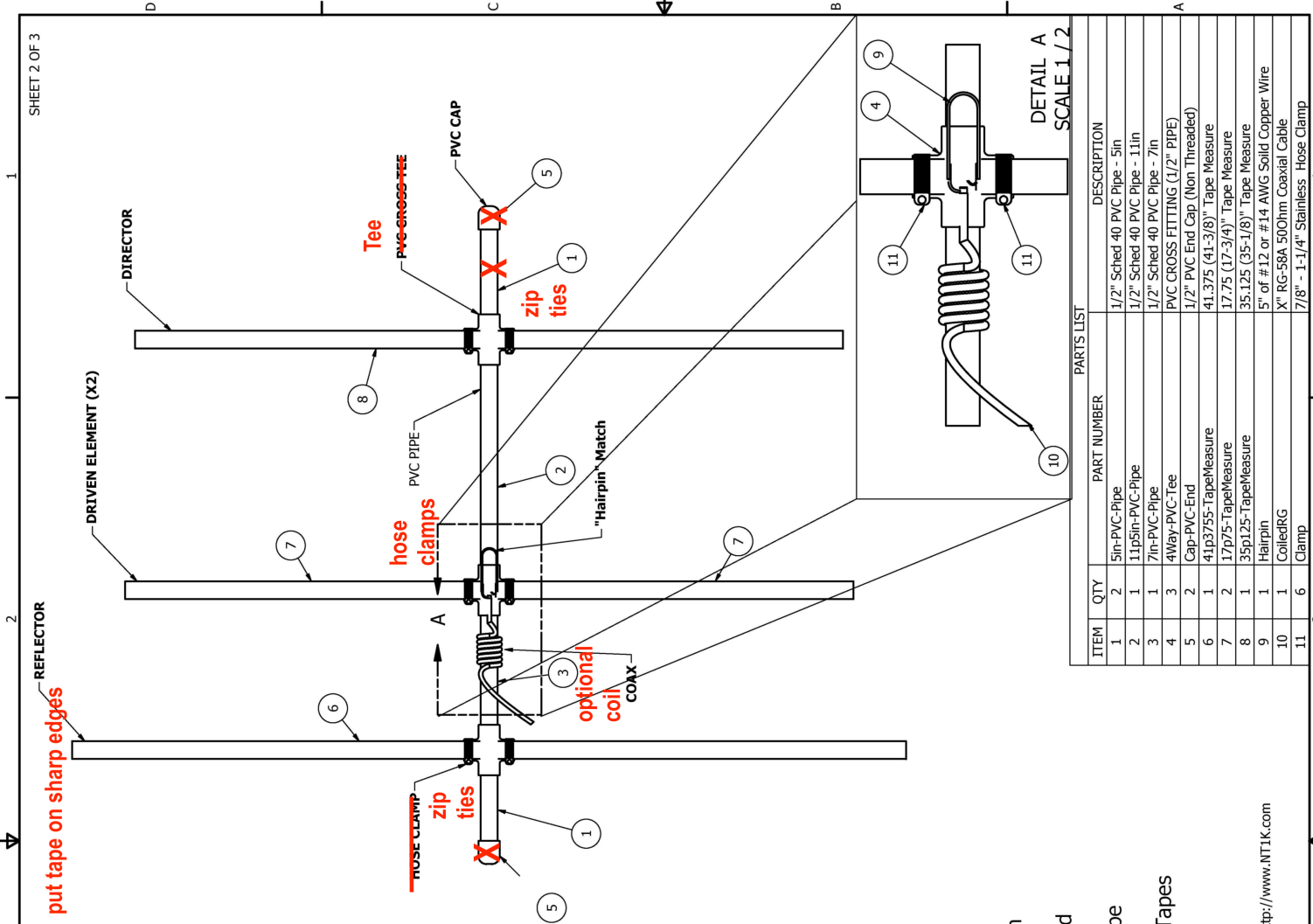
1. ~~Mark and Cut PVC Pipe to proper lengths~~
2. Deburr cut PVC pieces with sand paper
3. Using a flat hard surface, assemble PVC pipe, with caps and Cross Tees as shown on this print
4. ~~(Optional) Un-assemble, prime and glue PVC back together.~~
5. Mark and cut tape measure using tin snips to the proper lengths as shown on blue print **and put electrical tape over sharp edges**
6. On the 17.75" tapes, use sandpaper/dremel to remove plastic and painted coating about 3/8" in diameter to expose the bare metal.
7. Bend wire into "U" shape having approx .75" Gap
8. Assemble Yagi using the tape measure and clamps.
9. ~~On the Driven Element, Solder Hairpin wire match~~
10. Strip Coax to expose about 3/16" of the center conductor, Make wire from braided shield
11. ~~Solder~~ the center conductor to the bare spot of one of the 17.75" tape and solder the shield to the other 17.75 tape **and hairpin wire with clamps**
12. Wind Coax 6 turns around the 1/2" PVC Pipe and secure with electrical tape **optional - only needed for transmit**

ALL DONE! Adjust SWR by adjusting the spacing between to the two 17.75 Tapes

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ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	5in-PVC-Pipe	1/2" Sched 40 PVC Pipe - 5in
2	1	11p5in-PVC-Pipe	1/2" Sched 40 PVC Pipe - 11in
3	1	7in-PVC-Pipe	1/2" Sched 40 PVC Pipe - 7in
4	3	4Way-PVC-Tee	PVC CROSS FITTING (1/2" PIPE)
5	2	Cap-PVC-End	1/2" PVC End Cap (Non Threaded)
6	1	41p3755-TapeMeasure	41.375 (41-3/8)" Tape Measure
7	2	17p75-TapeMeasure	17.75 (17-3/4)" Tape Measure
8	1	35p125-TapeMeasure	35.125 (35-1/8)" Tape Measure
9	1	Hairpin	5" of #12 or #14 AWG Solid Copper Wire
10	1	CoiledRG	X' RG-58A 50Ohm Coaxial Cable
11	6	Clamp	7/8" - 1-1/4" Stainless Hose Clamp