

### Erect ENVIS 40/80M Dipole @ 1.8m above ground

### W2IK ENVIS Dipole

- 1 Find clear area (decide centre/base) position Dipole requires 20M distance for 40M dipole [35M for 80M Dipole]
- 2 Place centre peg in ground Attach stringline labelled: '**40M stringline**' to centre peg
- 3 Run stringline out 9.9M - first in one direction Place Peg  
Pull string reasonably tight [not slack on ground] : Midway between extreme tension & Slack - is the correct tension/length
- 4 Spin stringline on centre pole - to opposite direction - run out 9.9M Place Peg

*Ensure 3 pegs form a straight line*

- 5 If setting up for 80M band - using the 80M extension Kit continue with:-

Attach stringline labeled '**80M stringline**' onto an outer pole/peg

Run stringline out 7.9M from an outer pole - in one direction Place Peg

Remove stringline and attach to the other outer (40M) pole/peg [opposite end]

Run stringline out 7.9M from the other outer (40M) pole in the opposite direction & Place Peg

*Should now have 3 [or 5] pegs in straight line - position determined by stringline(s)*

- 6 At each ground peg lay out:- 1 Yellow pole : 1 guy rope spool: 2 tent pegs

**Working with Yellow Poles - First: Loosen black knob so inner pole is able to rise unrestricted**

**Centre Pole** i.e. Pole to be used at the Centre of Dipole is **unique**

Has bolt/wingnut assembly to secure the PVC Elbow/antenna wire to centre pole

Other poles are interchangeable

i.e. other poles have timber tops - with grooves to secure tensioning ropes

- 7 Fit 3 (or 5) Poles over the Pegs -

**Do not** extend poles upward - keep at comfortable working height

Allow inner pole to rise upwards (100mm) as Pole is lowered onto the Peg

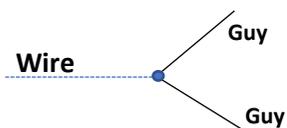
For ease of construction keep the jacking handles in the same line as the antenna wire.

Near top of each pole: Locate metal tab with a hole either side

The holes will take the "S" hooks to attach guy ropes

- 8 Fit 2 white nylon guy ropes to each Yellow pole:

Guy ropes have an "S" hook on one end - to attach to metal tab



Fit one guy 'S' hook to each hole in metal tab

Position guy [see sample Left - antenna wire forms 3rd tension point ]

Keep Guy/tent pegs close to Pole - approx. 500mm out

Don't tension guy ropes yet [tension after antenna raised to required height]

- 9 Unfurl 40M Dipole antenna wire -

TWO equal lengths - connected at centre in PVC Elbow with coax fitting

- 10 Fit PVC Elbow to top of centre pole

Fit PVC elbow to rod using bolt/wingnut assembly. Tighten [finger tight]

Tensioning ropes are attached to outer ends of the dipole wires

### ***Erect ENVIS Dipole... Continued***

- 11** Attach the tensioning rope to the outer poles - on the lower groove of timber top  
Outer end of antenna wire has spade connector to form a "jumper" if 80M extension Kit is used
- 12** If setting up for 80M Band continue with:-  
Unfurl TWO separate 7.6M lengths of antenna wire: labelled "80M Extension"  
Inner end has Spade Connector & Nylon loop to fit TOP timber groove on pole  
Outer end has nylon rope for tensioning & is fitted to timber groove on outer pole  
The inner end with Spade connector forms a "jumper" to the end of 40M dipole wire
- 13** Wire Jumper on 80M extension wire is 300mm long. Ensure it reaches the Spade connector on the 40M antenna wire
- 14** Attach 40M antenna jumper to 80M extension: Tension outer end of 80M antenna extension  
*Should now have Antenna Wire strung between 3 (or 5) poles and tensioned.*
- 15** Raise each pole individually - a little at a time if necessary, until at the required height  
**1.8Metre (6ft)** is recommended Height for W2IK ENVIS Dipole
- 16** Tension & tie off guy ropes to secure all poles
- 17** Adjust antenna tension and guy rope tension as required until all poles are vertical and antenna wire is reasonably taut.  
Don't overtension the antenna wire - a little line droop is acceptable.  
*40M dipole is now ready for operation*
- 18** If reflector [counterpoise] is required - us wire labelled "40M Dipole reflector [counterpoise]"  
Run out Wire on ground - underneath & full length of the Dipole to act as reflector.  
Ends of the Reflector Wire have Spade connectors to attach 80M extension [if being used]
- 19** If setting up for 80M band Unfurl TWO Reflector [counterpoise] Wires - labelled "80M extension reflector"  
Lay reflector on ground under the 80M extension antenna  
Spade Connector [male] at Inner end - connects to the outer end of the 40M dipole reflector wire  
connect only if/when the 40/80M antenna jumper is connected on Dipole above
- 20 SAFETY:** Yellow/Black warning tape Unfurl & Fix as required along full length  
yellow 'fluttering' tape is tied midway between each pole span to warn public of Orange antenna wire  
"Non Ionizing Radiation" sign should be displayed EITHER END of antenna wire [Dipole is 'HOT' at both ends]  
*Consider safe working distance from Antenna* Portable station has 40M coax available  
*Ensure the public do not linger near the antenna when station is Transmitting*