



23/06/2026 SuperSig Manual V1.01

CONSTRUCTION FOR THE SUPERSIG 4 & SLIDERBEAM

PARTS LIST

No.	Description
1	Boom section with Hub, Choke and End Cap
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4	5.6m Telescopic Whips
1	Boom joiner
1	Mast plate
1	Jumper lead
4	M6 40mm bolt
4	M6 Wing Nut & Washer Set
2	M8 Mast Clamps
1	Hex Driver
1	Whip Length Chart
1	Carry Bag with shoulder strap

Boom Assembly

Insert the joiner into the boom section holding the common mode choke, locate the far hole and push through one of the M6 40mm bolts. There should be one washer either side and loosely tighten the M6 wingnuts.



Attach the mast plate to the remaining two holes and use the M6 40mm bolts. These now can all be tightened fully using the supplied hex driver.



Attach Boom to your Mast

Place boom on mast or support of choice. For initial testing a small tripod is ideal. Tighten the clamp bolts so the boom is secure on the mast.

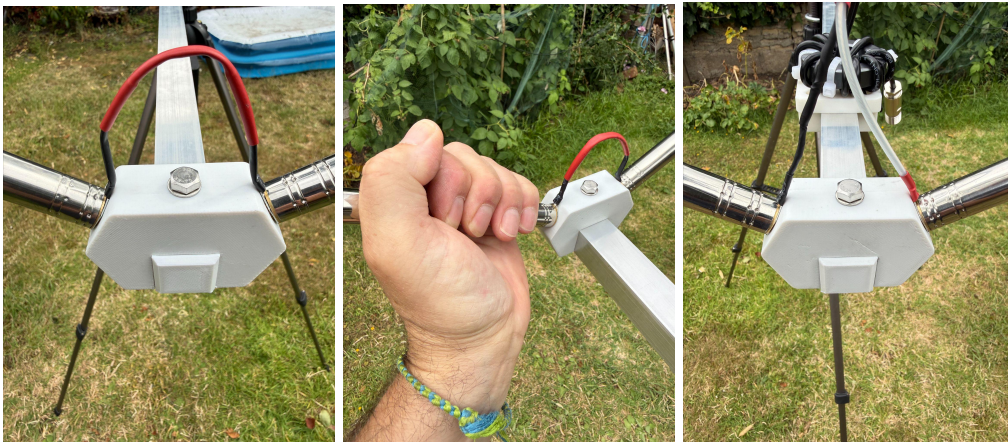


Mounting the Whips

Locate the brass threads at the end of the whip (whilst the whip is retracted) into the element hub.



Screw in until about 2mm from the hub and insert one fork of the jumper cable.



Complete tightening the whip until secure. **WARNING: HAND TIGHTEN ONLY!** No grips or wrenches should be used on the whips; doing so will result in damage.

Finally attach your coax to the female PL259 on the common mode choke. You are now ready to tune the antenna.



TUNING THE ANTENNA

It is highly recommended that before construction you mark the whips, using the chart below. A permanent marker is supplied for this. Ideally, do this on a flat surface using a long tape measure. Lay out the tape measure and carefully extend the whip from the tip making sure each section is extended fully.

Lay the whip next to the tape and adjust, again from the tip, to the correct length. For example, if we are wanting to use 10m each driven element will be 267cm long and the directors between 259-253cm. Initially, just add a small mark to the whip, as this will eliminate confusion when marking the final position.

As mentioned, these measurements will get you started*. You will most likely have to fine tune these values for your specific location. An antenna analyser is essential for this fine tuning, a [NanoVNA](#) being the most cost effective.

Install the whips for the driven element onto the hub. Connect the leads to the common mode choke to either side of each whip and check the SWR on your analyser. If the SWR dip is above the required frequency the whips are too short and will need extending. If the SWR dip is below the required frequency the whips are too long and will need shortening. You can do this incrementally depending on how far the SWR was off the required frequency. Once you are satisfied with the SWR reading mark the element.

Now measure the directors in the same way and add them to the opposite hub on the antenna. Connect each director together with the supplied jumper; you may see a slight change in SWR and impedance. **This process should only have to be done once.** When you have found the correct lengths, mark the whips, so next time you put up the antenna you can just slide whips out to the mark. You are now ready to attach your transceiver to the antenna and start making contacts!

Please also see the [accompanying video](#) on how to assemble the antenna.

* **Note:** The higher the frequency the smaller the adjustments will need to be.

BAND	DRIVEN	DIRECTOR
20M	534	506
17M	418	396
15M	356	337
12M	310	294
10M	267	253
6M	147	139
4M	101	95

SPECIFICATION

FREQUENCY	14-80MHz
GAIN	5-12dBI Depending on Frequency
SWR	1:5.1 OR BETTER
POLARISATION	HORIZONTAL
POWER HANDLING	250W CW-FT8 600W SSB
WEIGHT	2.3KG (-4 Model) 2.6KG (Sliderbeam)