

Draussenfuchs Antenna



Anzahl	Beschreibung
1	Measurement Tape
400 mm	Irrigation Hose
3	4-Way-Splitter
100 mm	Heat Shrink Tubing 12 mm with Glue
1 m	Heat Shrink Tubing 12 mm without Glue
300 mm	Threaded Rod M3
1	Yagi-PCB
1	SMA-Connector

Difficulty: ●●○○○ Build-Time: 30 – 50 Minutes

Manual v2.0 CC BY-SA 4.0 Binary Kitchen e.V.
Building Kit v1.0 MIT License [Harm, DK4HAA, draussenfuchs.de]

Safety Information

- ATTENTION: Not suitable for children under 3 years, choking hazard due to small parts that may be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these operating instructions in a safe place for later use! It contains important information.
- If the battery is empty, replace it only with a new battery with the same values.
- When soldering, the soldering iron, the solder and also the components being soldered become very hot.
- Always wear safety glasses when soldering and assembling the kit.
- Always use a fire proof soldering pad when soldering! This prevents the components from slipping away.
- To keep the soldering iron safe during assembly, always use a suitable soldering stand.
- The kit is designed for battery operation only.
- CAUTION: Never connect the kit to 230 V mains voltage! There is an absolute danger to life!
- Please take the device to appropriately certified disposal companies at the end of its service life. This is good for the environment and ensures correct disposal.
- Subject to changes and errors.

Disposal

This appliance is labelled in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The directive provides the legal framework for the take-back and recycling of waste equipment throughout the EU.

- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer or a recycling centre for reuse. Please ask your retailer or your local authority for the current disposal routes.

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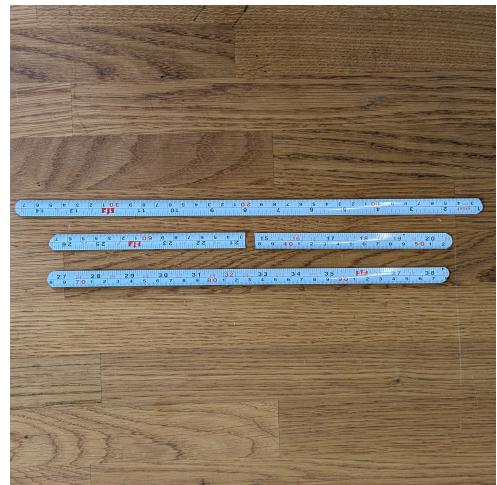
Step 1

- a) Check that all parts are present.



Step 2

- a) Pull the tape measure completely out of the dispenser and unhook it at the end.
- b) Allow the spring to spring back into the dispenser.
- c) Cut off the metal plate at the end of the tape measure.
- d) Cut 4 pieces of the following lengths: 1x355 mm, 2x150 mm, 1x304 mm
- e) Round the corners of the pieces slightly
- f) Mark the middle of the two long pieces with a pencil.



Step 3

- a) Grind off the paint at the non-rounded end of the two short pieces of measuring tape to a length of about 2 cm.



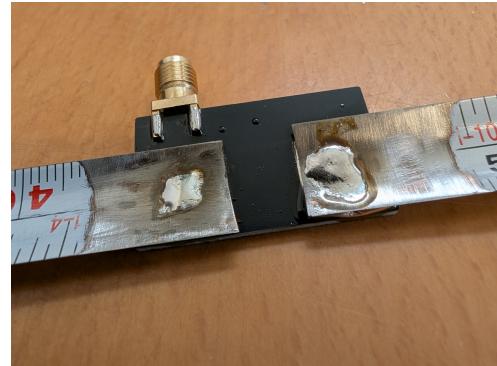
Step 4

- a) Take the circuit board and the SMA socket
- b) Solder the SMA socket to the circuit board
- c) Make sure that all solder joints are clean and firmly soldered.



Step 5

- a) Apply a generous amount of solder to the large solder pads on the board
- b) Apply sufficient solder to the side of the measuring tapes that is bent outwards
- c) Then solder the measuring tapes to the board
- d) Tip: Use a little extra solder to improve the heat transfer between the soldering iron and the measuring tape
- e) Make sure that the measuring tapes are aligned parallel to each other.



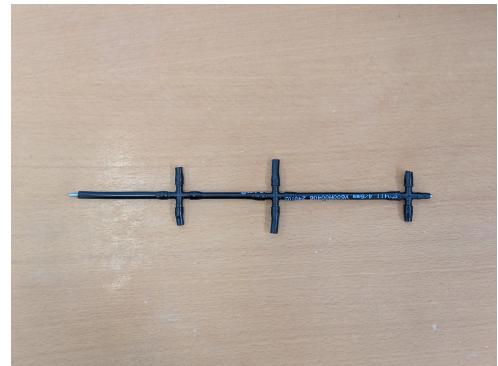
Step 6

- a) Now take the irrigation hose
- b) Cut the hose into 9 pieces with the following lengths: 4x15 mm, 2x25 mm, 1x100 mm, 1x65 mm, 1x75 mm.



Step 7

- a) Attach one end of the 75 mm hose to a 4-way manifold
- b) Insert a piece of 15 mm hose into each of the two side connections (at a 90° angle)
- c) Attach the 65 mm hose to the free end
- d) Attach the next 4-way manifold to the end of this hose. Attach two 25 mm-long hose sections to its side connections. Attach the 100 mm hose to the remaining free end. Attach another 4-way manifold to the side connections. Attach the two remaining 15 mm hose sections to its side connections. Now push the threaded rod through the long hose sections.



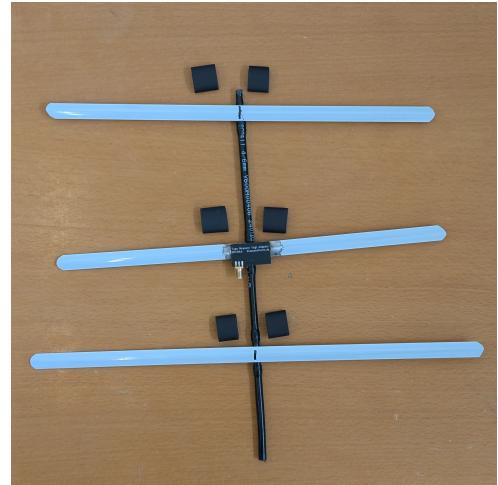
Step 8

- a) Push the threaded rod on one side into the tube, so that it is flush with its end
- b) Cut off the excess on the opposite side
- c) Glue both ends with a little hot glue.



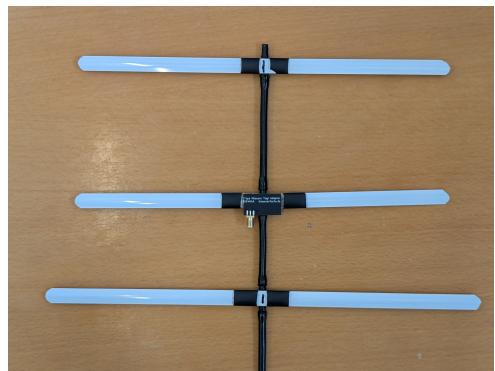
Step 9

- a) Cut the short heat-shrink tubing with adhesive into equal pieces
- b) place the tape measure sections on the distributors of the tubing construction: the strip with the circuit board belongs in the middle, the long strip on the side with the protruding tubing and the medium-length strip on the side with the short end.



Step 10

- a) Now slide the shrink tubes over the measuring tapes from the outside
- b) once they are positioned over the distributors, shrink them tight
- c) make sure that the measuring tapes are centered - use the markings as a guide.



Step 11

- a) Cut the long shrink tubing into 6 pieces
- b) these should be long enough to reach from the center of the antenna to just above the ends of the measuring tapes.



Step 12

- a) Now shrink the long shrink tubes onto the measuring tapes
- b) Make sure that the ends of the measuring tapes do not protrude, as they can be very sharp.

