



## Spare Parts for Youshiko YC1130



Adrian Hungate

[VIEW IN BROWSER](#)

updated 26. 1. 2024 | published 26. 1. 2024

### Summary

Replacement parts for the Youshiko YC1130 5-in-1 weather sensor as Youshiko do not to make the originals available

[Gadgets](#) > [Other Gadgets](#)

Tags: [sparepart](#) [weatherstation](#) [5in1](#) [anemometer](#) [youshiko](#)  
[yc1130](#)

### PLEASE NOTE I AM STILL TWEAKING THE DESIGN

Youshiko make a range of low cost WiFi weather stations based, for the 5-in-1 products, around the YC1130 5-in-1 weather sensor assembly. Unfortunately they have taken the decision not to supply spare parts for these rather vulnerable and fragile devices. Also, equally unfortunately, my hands are not as strong as they once were, and I dropped my sensor from about 8 feet up a ladder while taking it down for maintenance, cleaning and battery replacement following some very bad weather. For the most part it survived the fall well, but the anemometer and wind vane were destroyed beyond my ability to glue them back together. Hence this set of models.

## **Printing the Anemometer**

Obviously you'll want to use a weatherproof material such as ABS for anything going outside. Otherwise, I simply did a high resolution (0.1mm) print and it all seemed to fit. I used Revel Contacta modelling cement (That I use for Warhammer models) to glue the flyers into the rebates in the cap. Make sure the orient the blades the same way as the original. Mounted on the top of the YC1130 it spins clockwise when viewed from above.

See the picture for flyer orientation.

## **Removing the old Anemometer**

This paragraph is for people replacing a factory standard anemometer assembly. The original anemometer assembly is mounted on a short, keyed, axle, to which is it attached (as is the wind vane) by a centre screw. This is under a small black rubber cap. Remove the cap, undo the screw and the plastic component will come away. The cap contains the magnet which you will need to remove. I don't know of a non-destructive way of doing this!

This paragraph is for people replacing non-standard anemometer that is glued to the axel. You will need to remove the axel from the bearing so you can access the glued shaft and break it free for re-use. Remove the 10 screws holding the clamshell case of the sensor together. Open the case, and remove the plastic keeper from under the anemometer mount. This will reveal the other end of the axel (about 2mm protrudes into the unit, no more) with a circlip holding it in place. remove the circlip and the axel will pull out from above (with or without the old assembly attached). Now free the axel from the cap, and clean it as required. Replace it, retained by the circlip, put the cover back, and finally reassemble the sensor clamshell case, fastening all 10 screws.

## **Installing the Anemometer**

You have the axel, cleaned if needed, from the previous section.

You will also need to retrieve the magnet from the old cap (It's in a small circular shaft, off-centre from the axel. The magnet is a cylinder about 2mm in diameter and about 3mm long. It's a really strong magnet so be careful with screwdrivers etc around it as it will leap fairly long distances if unrestrained!

Install the magnet with some glue, in the off-center recess, add some glue to the central recess, then mount the anemometer on the sensor's axel and wait for all the glue to dry.

I friction fitted the axel and magnet but your mileage may vary. If friction isn't working, use strong glue (Superglue or Modelling Cement), and wait with the unit upside down, as gravity and physics are not your friend here, especially not for the magnet!

## **Printing the Wind Vane**

I printed the upside down, that is with the mounting pillar down, and the tail straight up. Use plenty of support (I used normal support, but trees would work too).

## **Removing the old Wind Vane**

The factory standard Wind Vane, as with the Anemometer, is fitted to a keyed axel with a center fixing screw. It's fairly loosely fitted so once the screw is removed it slides off fairly easily.

If replacing a previous one of these Wind Vanes then you'll need to apply some force to remove it, or lever it over to crack the fitting inside the piece.

## **Installing the Wind Vane**

There is very little torque or weight going on here so I found friction fitting was sufficient.

## **More parts coming**

I will also be creating other parts, watch this space.

## **Credits**

I am grateful to @Harry and his [Weather Station One](#) which gave me the ideas for this make

## **This remix is based on**



### **Weather Station One Part 5 - the Wind Vane and Anemometer**

by Harry

# Model files



## **anemometer-for-youshiko-yc1130-cap.stl**

☐ Make sure you use support as some of the gaps are too large or complex for bridging.

---



## **anemometer-for-youshiko-yc1130-flyer.stl**

☐ You need to print 3 of these.

---



## **wind-vane-for-youshiko-yc1130.stl**

☐ The balance on this is really important and I'm still not quite there.

# License ©



This work is licensed under a  
**Creative Commons (4.0 International License)**

**Attribution—Noncommercial—Share Alike**

---

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition