

Instructions for Replacing the Anemometer

Outdoor Sensor Array (WH24) for Weather Ranger and Weather Sleuth Stations

Tools

- 1x Allen key (came with the original weather station)
- 1x small Phillips screwdriver
- 1x tweezers

Method

Step 1: Dismount the WH24 sensor array and remove the batteries

Step 2: Remove the wind direction vane with the Allen key (see Figure 1)



Figure 1: Removing the wind direction vane

Step 3: Carefully remove the circlip from the shaft using tweezers (see Figures 2 and 3).



Figure 2: Removing the circlip

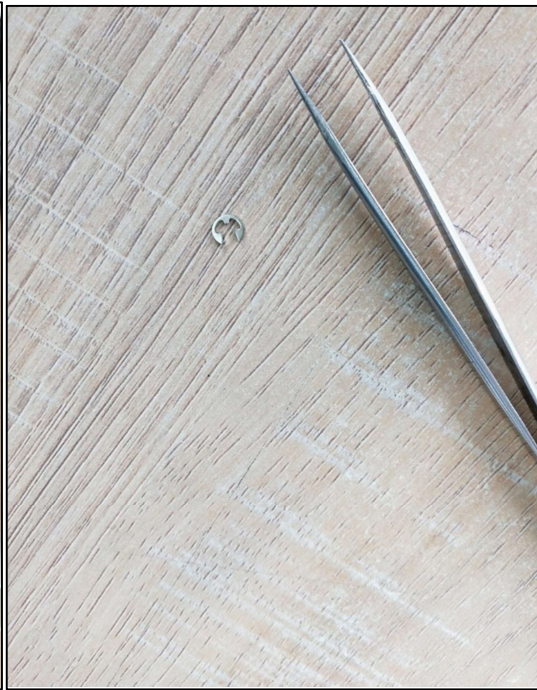


Figure 3: Circlip

Step 4: Unscrew the two screws on the spacing sheath above the anemometer. These may be quite tight, so take care not to damage the screw head (see Figures 4 to 6).



Figure 4: Carefully unscrew retaining screws



Figure 5



Figure 6: Remove sheath from above anemometer

Step 5: Use Allen key to remove the grub-screw on the wind shaft sleeve (See Figure 7). You can half-remove this and note that it is prone to sliding (see Figure 7).



Figure 7: Removing the grub screw from the shaft

Step 6: Use the flat end of the tweezers to lever the sleeve enabling removal. (See Figures 8 and 9)



Figure 8: Lever the sleeve



Figure 9: Remove sleeve

Step 7: Carefully remove the circlip from the shaft using tweezers (see Figures 10 and 11).



Figure 10: Removing second circlip



Figure 11

Step 8: Remove the anemometer assembly (see Figure 12).



Figure 12: Remove anemometer

Assembly is the opposite of removal and take care to install replacement circlips to the notches on the wind shaft (see Figures 13 and 14).



Figure 13: Notches on wind shaft



Figure 14: Notches on wind shaft