Mini Kobo/GPS/XCSoar

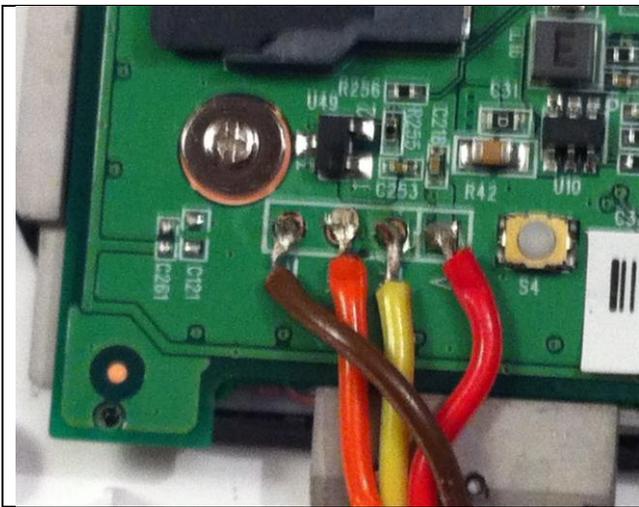**Construction Guide**

You will need:

1. Mini Kobo Unit
2. GPS Module
3. 4 strand ribbon cable
4. Jewellers Screwdrivers
5. Fine tip soldering iron
6. Solder
7. Glue gun or non-conductive adhesive eg Sugru http://sugru.com/
8. Cover for GPS - **keep the plastic cover it comes in**
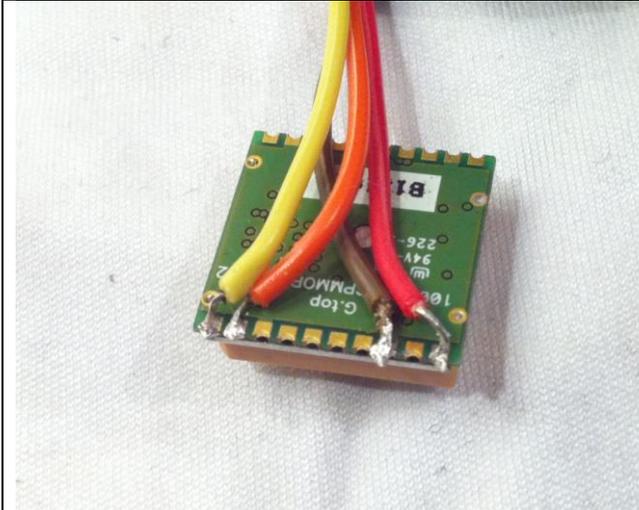
	Gently pull open the back cover of the Mini Kobo
	Using jewellers screwdrivers, undo the retaining screws from the back cover and place them in a safe place

	Cut some ribbon cable about 5cm long, pull the strands apart, and then solder on to Kobo unit as in the picture (these pictures are from first build showing ribbon in one piece, but it is better to pull the strands apart). The length of the cable should be long enough to mount the GPS unit on the outside of the Kobo without too much excess cable.
	Solder the GPS unit as per the diagram IMPORTANT: use a non-conductive adhesive to fix the cables and protect the solder points from being pulled.
	Cut the Kobo housing neatly so that the cable run out of the housing form the corner to where the GPS will be mounted
	Afix the GPS unit to the outside of the Kobo using the plastic housing it came in. I have used insulating tape to hold the GPS cover in place, and to provide extra bonding between the Kobo back cover and the main Kobo unit. The Kobo can be either attached via Velcro to the base bare of HG, or mounted in close form Styrofoam along with an additional powerpack. PGS can mount in instrument pouches.

To Install XCSoar Software

1. Download the XCSoar files from
   https://www.dropbox.com/sh/soer574yx5cyosc/AAD3KxR9krwwanC_QBwKEn6ta
2. Plug Kobo in to computer
3. Turn Kobo on
4. Kobo should show up as a drive in Windows Explorer
5. Copy the .tgz file from the XCSoar file the .kobo folder in the Kobo directory (note the dot before the word "kobo"
6. Copy the whole XCSoar file in to the root directory alongside the .kobo and adobe folders
7. Turn off Kobo
8. Turn on Kobo – unit will boot up in XCSoar mode
9. Select "Fly"
10. Select "Continue"
11. Et volia! Now read the XCSoar manual!!