

## How to recover from a dead battery situation with the ESP and Eagle Handheld PCs

The TouchPC handhelds can get corrupted if their batteries run down. This paper offers some suggestions to help bring them back to working condition.

There are 5 'disk drives' on the TouchPC.

|         |  |
|---------|--|
| C drive | System Flash ROM 512K                          |
| D drive | User Battery backed RAM 1024K                  |
| E drive | User Flash ROM 512K                            |
| F drive | removable PCMCIA memory card #1 (if installed) |
| G drive | removable PCMCIA memory card #2 (if installed) |

The program files (e.g. ESP\*.EXE and the polars) live on drive E, and usually survive battery discharge. The volatile files (such as the configuration files \*.ESP) are located on the D drive which will become unreadable when the backup battery becomes discharged.

### Recovery procedure

- 1 Turn on the backup battery (see <http://www.ockam.com/ESP2man.pdf>).
- 2 Charge the ESP or Eagle for 24 hours.
- 3 From the DOS prompt, press SYS, BATTERY OPTIONS, GAS GAUGE. If the backup battery is dead, it will say so. In this case, you will have to send the TouchPC in to get its backup battery replaced. Otherwise, EXIT, EXIT, EXIT.
- 4 Check the D drive.  
From the DOS prompt, type  
**DIR D:**  
Check the volume name, filenames and disk size.  
If you get garbage or an invalid disk size, then you must format D.

Type

**FORMAT D:**

WARNING, ALL DATA ON ... WILL BE LOST! Proceed with Format (Y/N)?

Press Y

Be patient, formatting takes about 30 seconds.

**DIR D:**

should show

Volume in drive D is <8 digits/letters>

Directory of D:\

File not found

This indicates a successful reformat of drive D.

- 5 Once you have a good drive D, check drive E.

Type

**DIR E: /P**

Press SPC to continue the listing. You should get a list of files including but not limited to the following

|          |  |
|----------|--|
| OK.ESP   | Backup configuration file                    |
| ESP*.EXE | OckamSoft program (ESP1, ESP2,...)           |
| *.TPO    | Polar file(s) (User supplied, may not exist) |

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If you don't have these files, you will have to reload them from the original disk.

- 6 Restore the default configuration file to drive D:

Type

**COPY E:OK.ESP D:**

1 File(s) copied

- 7 Run OckamSoft

Type

**E:ESP1** (or ESP2 or whatever your program is actually called; see step 5)

Select the (only) configuration file.

After the software initializes, press **Setup**, **Load Polar**, then pick your polar (if any).

Then save the configuration (**Main**, **Quit**, **Save & Quit**).