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Adding a generic USB Printer to the Torqo model 1600 Rev 2.0 3-Apr-2014

The addition of a generic USB interface printer to the Torqo Model 1600 can be accomplished in several steps.

Step 1. Disable Write Protection on the C: Drive of the Torqo model 1600 Touchpanel

If this is not done all changes to the C: drive will be lost at the next power cycle or reboot.

See Appendix A below for the procedure.

Step 2. Load your printer driver onto the C: Drive and test that it works with Windows.

The printer driver must be compatible with the Windows XP Operating system.

A basic driver installation is preferred over the application installation which may load unwanted applications onto the touchpanel.

Set the newly loaded printer to be the Default Windows printer.

Use Print Test Page to confirm Windows can print to your printer. Do not proceed until the test page prints properly.

Step 3. Enable Write Protection on the C: Drive of the Torqo model 1600 Touchpanel.

If this is not done there is a risk that cycling power will corrupt the Windows image on the C: drive. Enabling write protection on C: is essential for long term stability of the touchpanel.

See Appendix B below for the procedure.

Step 4. Edit the PrinterConfig.txt settings in the folder D:\Torqo\SYSTEM

The PrinterConfig.txt file should look similar to this text below to use the default USB printer.

[PRINTER]

Printer Type = OTHER This tells the Torqo application to use the Default Windows printer

Top Margin = 0.5 Set the margins inside the printable area for your printer

Bottom Margin = 0.5 Set the margins inside the printable area for your printer

Left Margin = 0.75 Set the margins inside the printable area for your printer

Right Margin = 0.75 Set the margins inside the printable area for your printer

Units = US Set the units to US (inches), alternately could be Metric (mm)

Font Charset = -1

Font Weight = -1

Font Name =

Font Size = 10

Logo File = mesa logo small.bmp

Change this to your logo bitmap file in D:\Torqo\SYSTEM folder

Time Format = %l:%M %p

Change this in the System Options not here

Date Format = %m/%d/%y

Change this in the System Options not here

Printer Name = Other

Change Other to be the name of your printer from Windows with the same spelling, spaces and capitalization.



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APPENDIX A: EWF DISABLE FOR MAINTENANCE

It may rarely be necessary to complete some Windows configuration steps on a write-protected C: drive. Here are the steps to turn off EWF temporarily. Always remember to reenable EWF as described in Appendix B.

1. Reboot the machine and let it finish starting up Windows.
2. Exit the Torqo application.
3. Click Start-> All Programs -> Accessories -> Command Prompt
4. Type the following command

```
ewfmgr c: -disable
```

5. Type the following command

```
ewfmgr c: -commit
```

6. Reboot the machine and let it finish starting up Windows.
7. Exit the Torqo application.
8. The C: Drive is writable at this point and any needed changes may be made. Use caution to prevent the machine power from being shutdown improperly while the C: drive is writable. Don't shutdown the power with Windows or the Torqo application running. As soon as practical, reenable the write protection by following the steps in Appendix B below.



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APPENDIX B: EWF ENABLE FOR OPERATION

Run the Enhanced Write Filter (EWF) to write-protect the C: Drive as follows:

1. Reboot the machine using Start -> Turn Off Computer then click Restart and let it finish starting up Windows.
2. Exit the Torqo application.
3. Click Start
4. Click All Programs
5. Click Accessories
6. Click Command Prompt to open a command prompt window
7. Type the following command:

```
ewfmgr c: -enable
```

8. Press return.
9. Type the following command:

```
shutdown -r -t 1
```

10. Press Return. The touchpanel will reboot.

The C: drive is now write protected, any changes you make to the Windows configuration settings will be lost at the next power cycle.

Changes can still be made to the D:\Torqo programs and settings and the D:\Torqo\System folder and the D:\TorqoFactory Defaults folder. All files for Torqo appear on the D: drive.

The USB Flash drive will appear as the E: drive.