Craden Driver Installation Instructions

NOTES:

- If the printer is connecting via a USB interface, install the USB drivers per the Section D instructions before installing the printer driver.

- Craden STRONGLY suggests watching our driver installation videos before performing these tasks. http://craden.com/cpc89drivertut.htm and/or http://craden.com/cpcusbdrivertut.htm will be of assistance to ease installation. If your network administrator prohibits video, use your smartphone.

- Before loading the printer driver, create a folder on the "C" drive and label it cpcdrv.   Copy the cpcdrv.zip file from http://craden.com/drivers.htm and extract the driver files.

Contents of this instruction file:

LEGAL NOTICE

A. **TO INSTALL CRADEN PRINTER DRIVERS ON WINDOWS XP:**

If the printer is connecting via a USB interface, install the USB drivers per Section D instructions before installing the printer driver.

1. Click START
        a. Click on Control Panel
        b. Click Printers
        c. Double click Add Printer
        d. Click NEXT.

2. Select local or network printer (local unless the printer is not connected to this PC)
        a. Click NEXT.

3. Select the port where the printer is connected.
        a. Click NEXT.

4. Click "HAVE DISK".

5. In "Copy manufacturer's files from:" box, enter c:/cpcdrv
       a. Click BROWSE.
       b. Double Click on XP Folder
     c. Click OPEN
       d. Click OK

6. Highlight printer DP8 or DP9
       a. Click NEXT

7. Select Replace Existing Driver
       a. Click NEXT

8. Select Yes if you want the Craden printer to be the Default Print (prints all Windows output
       a. Click NEXT.

9. Select a Share Name if the Craden printer is to be used over your network, otherwise select DO NOT SHARE
       a. Click NEXT.

10. Select NO to not print a test page
       a. Click NEXT
       b. Click FINISH to install the driver.
       c. On Windows XP a message warns that the files do not have a Microsoft digital signature. All Craden specific files are data files that will be used by a standard Microsoft universal printer driver and will not affect system integrity.
       d. Click CONTINUE ANYWAY to continue loading.

11. Insert an 8.5" by 11" page in a DP9 or at least a 5.8" wide by 6" high page in a DP8.

12. Right click on the printer icon just installed.
       a. Left Click on Properties
       b. Left click Ports
       c. Left click on Configure Port. Insure that the configuration matches the printer's 9 3 FUNCT parameters. Recommended port settings are 38400 baud, 8 data bits, no parity, 1 stop bit, and hardware flow control. Corresponding 9 3 FUNCT values are DTR, 38400, 8, NONE, 1, MULT, emulation I and auto CR on feed.
       d. Click OK
       e. Click General
       f. Click on Print Test Page to print on the installed printer.

B. **TO INSTALL CRADEN DP8 OR DP9 PRINTER DRIVERS ON WINDOWS VISTA, or WINDOWS 7, WINDOWS 8 or WINDOWS 8.1 32-bit:**

If the printer is connecting via a USB interface, install the USB drivers per Section D instructions before installing the printer driver.

1. Click START,
       a. Click Control Panel
       b. Click on Printers
       c. Double Click on Add a Printer in the tool bar

2. Highlight add local or network printer (local unless the printer is not connected to this PC)
       a. Click NEXT.

3. Select the port where the printer is connected.
    a. Click NEXT.

4. Click on HAVE DISK.

5. In "Copy manufacturer's files from:" box, enter C:\cpcdrv\
    a. Click OK.

6. Select "Craden DP8" or "Craden DP9"
    a. Click NEXT.

7. Select Replace the Current Driver
    a. Click NEXT.

8. A "Windows needs your permission to continue" message will appear.
    a. Click CONTINUE

9. Click FINISH

11. Insert an 8.5" by 11" page in a DP9 or at least a 5.8" wide by 6" high page in a DP8.

12. Right click on the printer icon just installed.
    a. Left Click on PROPERTIES
    b. Left click PORTS
    c. Left click on CONFIGURE PORTS. Insure that the configuration matches the printer's 9 3 FUNCT
    parameters. Recommended port settings are 38400 baud, 8 data bits, no parity, 1 stop bit, and
    hardware flow control. Corresponding 9 3 FUNCT values are DTR, 38400, 8, NONE, 1, MULT,
    emulation I and auto CR on feed.
    d. Click APPLY
    e. Click General Tab
    f. Click on Print Test Page to print on the installed printer.

C. **TO INSTALL CRADEN DP8 OR DP9 PRINTER DRIVERS ON WINDOWS 7, WINDOWS 8 or
WINDOWS 8.1 64-bit:**

If the printer is connecting via a USB interface, install the USB drivers per Section D instructions before
installing the printer driver.

1. Click START,
    a. Click Devices and Printers
    b. Click on Add a Printer in the tool bar

2. Click on add local (local unless the printer is not connected to this PC)

3. Select the port where the printer is connected.
    a. Click NEXT.

4. Click on HAVE DISK.

5. In "Copy manufacturer's files from:" box, enter C:\cpcdrv\
    a. Click OK.

6. Select "Craden DP8" or "Craden DP9"
    a. Click NEXT.

7. Select Replace the Current Driver
    a. Click NEXT.

8. Enter a printer name (such as Craden DP9)
    a. Click CONTINUE

9. Printer Sharing – Select Do not share this printer (unless printer is being installed on a network)
    a. Click NEXT

10. Click FINISH

11. Insert an 8.5" by 11" page in a DP9 or at least a 5.8" wide by 6" high page in a DP8.

12. Right click on the printer icon just installed.
    a. Left Click on PRINTER PROPERTIES
    b. Left click PORTS
    c. Left click on CONFIGURE PORTS. Insure that the configuration matches the printer's 9 3 FUNCT parameters. Recommended port settings are 38400 baud, 8 data bits, no parity, 1 stop bit, and hardware flow control. Corresponding 9 3 FUNCT values are DTR, 38400, 8, NONE, 1, MULT, emulation I and auto CR on feed.
    d. Click APPLY
    e. Click General Tab
    f. Click on Print Test Page to print on the installed printer.

D. **TO INSTALL CRADEN USB DRIVERS ON WINDOWS**:

NOTES:

- Craden STRONGLY suggests watching our driver installation video before performing these tasks. http://craden.com/cpcusbdrivertut.htm will be of assistance to ease installation, especially for the USB driver. If your network administrator prohibits video, use your smartphone.

- Before loading the USB driver, create a folder on the "C" drive and label it cpcusb. Copy the cpcusb.zip file from http://craden.com/drivers.htm and extract the files.

1. Connect the printer to a PC USB port with a USB A-B cable. Turn on printer power. The New Hardware Found Wizard screen will then display.

2. Select NO to Windows Update Question.
    a. Click NEXT

3. Select "Install from a specific Location".
    a. Click NEXT.

4. Select "Search for best drivers in these locations and check Include this location box. Type c:/cpcusb in file box.
    a. Click NEXT

5. On Windows XP, a message warns that the files do not have a Microsoft digital signature.
    a. Click Continue Anyway

6. Click No to the language overwrite question.

7. A message "Completing the found new hardware wizard will appear.
    a. Click Finish

8. The New Hardware Found Wizard will reappear.   Repeat steps 1 through 6 again. This will install
   additional drivers.

9. Click Start
            a. Click on Control Panel
            b. Double click System
            c. Click on Hardware
            d. Click on Device Manager.
            e. Double click Ports
            f. Click on USB Serial Port

10. Click Port Settings TAB and select 38400 baud for DP8 or DP9 or 19200 baud for DP7, 8 data bits, no
    parity, 1 stop bit and hardware flow control.

11. Click Advanced to display which unused COM port will be used for all communication with the printer
    USB interface by any program or driver capable of driving a COM port. This port number may be
    changed to any other unused COM port if desired.   NOTE: Verify the Serial Printer box is the only box
    checked in the lower right corner of the advanced settings.
            a. Click OK
            b. Click OK

12. Close all open Control Panel windows.

13. To use the Craden Printer Driver, install it now per the preceding installation section and connect it to the
    COM port selected in step 11.

E. **USING PRINTER RESIDENT DEVICE FONTS**

Printer resident device fonts should be used whenever possible because they print faster than TrueType
fonts that Windows prints as raster graphics. Device fonts include letter quality Courier 10cpi and 12cpi,
lower quality but faster printing Courier 5cpi, 6cpi, 17cpi, 20cpi, NLQII 10cpi and 12cpi and, in the DP8 and
DP9 with Rev. E1 and later firmware, lowest quality and fastest printing Draft 10cpi and 12cpi. A font size
setting of 10 is recommended, if using a printer resident font.

These fonts can be selected like any other font after loading the driver and selecting the printer as the
default printer. They will print and display correctly in WYSIWIG programs like MS Word only if a font size is
selected that displays characters at their correct spacing. A font size selection that displays characters at a
smaller spacing will print slowly as the printhead repositions to print each character closer than its nominal
spacing. MS Word curiously decreases character spacing as larger font sizes are selected.
FONTTEST.DOC can be opened in MS Word or Wordpad and printed to demonstrate the resident fonts.
Insure that the left margin is set to 0.2" for the fonts and display to read correctly.

F. **WRITING TO THE PRINTER LCD DISPLAY**

The driver includes 4 pseudo-fonts which write to the printer LCD display rather than print. The action, that selects one of these fonts, must be immediately followed by EXACTLY 16 characters to be displayed. There must be no page positioning commands between the font selection action and the characters to be displayed. All data following the 16 characters will be printed in the font that was selected before the pseudo-font selection. FONTTEST.DOC includes display writes using all 4 pseudo-fonts.

Pseudo-fonts LCD TOP DLY and LCD BOT DLY write to the top and bottom display lines only after all previous data has been printed. Pseudo-fonts LCD TOP IMM and LCD BOT IMM write to the top and bottom display lines as soon as they are sent to the printer, even if all previous data has not yet been printed. The standard Craden display commands, ESC BEL, ESC FS, ESC DC3 and ESC GS, can still be used by applications able to write control characters to the printer.

G. **POSSIBLE FIRMWARE UPGRADE REQUIREMENTS WHEN USING VISTA**

On DP8 and DP9 Printers, a firmware upgrade may be required to run with the Vista Driver, if the application will be

1.) writing messages to the display using the technique described in Section F above, or

2.) the application will be changing fonts during the printing of the form. Contact Craden for details.

Updated July 2014