

Down Loading a True Type Font and printing it as part of a Label - using Dos

Before sending a file to the printer

1. Unlike the HP style font used on CLP 1, 2 & 6000 series printers, True Type (TT) Font download does not require a command to prepare the printer to accept a font and a second to send the font. The TT download function works with just one command, sending the TT font to the printer.

2. Use the Dos Edit option wherever possible

3. To produce an STX code type the following at the DOS prompt

```
C:> COPY CON STX-L.PRN enter
```

Then holding the Ctrl key press B, release Ctrl, press shift and then L. Need a space and the Ctrl Z followed by the enter key.

In the Dos box on the screen you should see:

```
C:> Copy Con STX-L.PRN
```

```
^BL ^Z
```

```
1 file(s) copied
```

You have effectively produced a PRN file, which contains the STX command (^B or Control +B), which, in the DOS editor looks like a smiley face. Any problems here, copy a similar file, edit it to show just the smiley face, save it and then add the additional codes you need.

The actual command which downloads and stores the True Type Font in the printer is STX i Details on Page 1-27 of our Command Reference Manual (the memory locations differ depending on the model, details in the current manual refer to the CLP 6401 only).

CLP 6401 printer will accept True Type fonts but does not have a built in Flash ram, Flash card only. Printers with on board Flash ram are shown below along with the Flash Ram memory location:

Flash Ram Memory location depends on emulation used, some models have more than one Datamax emulation.

CLP 521 and 621 – DM I – “G”, DM 4 – “B” (default)

CLP 7201e – D

CLP 8301 – DM W – “G”, DM 8 – A or B (see above)

CLP 9000 series – DM I – “G”, DM 4 – A or B (see above)

The STX i command as it appears in the manual is made up as follows:

```
STX i m T nn name <CR>, xxxxxxxx data
```

Where

m = Memory location in the printer where the font is stored – in this case location B

T = T fixed (True type)

nn = Two digit font ID The manual gives examples of the valid values you can use.

name = Font name (Max 16 character)

<CR> This indicates the end of the font name to the printer.

xxxxxxx = True type font data size, number of bytes assigned by 8 digits (HEX format)

data = True Type font data

Therefore STXiBT52Tree Frog <CR>000087C2 data

This line of code sends the command to download the 34754 bytes of a True Type font called "Tree Frog" to the printer, giving it a Font ID of 52. The file is being sent in this case to the B module, which is the Ram card. The Command Ref. Manual explains the different memory locations and what they do

To send this file to the printer, go to the DOS prompt and type "Copy Treefrog.ttf LPT1 /b, (the /b just forces the file to the printer in it's complete format).

This file is effectively telling the printer to receive the TT font and it will be sent to the memory location B in the printer (in this case the Flash Ram Card).

The printer will report, "ooooo___" and then go back On-line once the Font file has been received, providing all has gone correctly.

The actual command, to select the downloaded font and use it to produce TT font text on a label is shown on Page 1-77 of our Command Reference Manual

Therefore, all that remains is to send down the command for the printer to find and then print the individual characters of the Font, usually as part of the whole label. The Font will be stored in the Flash Ram, this can be a memory card (Location B) or the Flash Ram built into the mother board (location D - CLP 7201e, location G - CLP 8 and 9000 series) until it is deleted, if it is sent to any other memory location which is not "flash memory" (location C) it will be lost when the printer is turned off (CLP 1,2 and 6000 series printers do not have flash memory on board, they use a Flash Card). CLP 521/621, CLP 7201e, CLP 8301 and 9000 series have flash memory as standard.

The command line required to print a stored (on the printer) True Type font is similar to any other font being printed. The line should print the word "big" using the True type font (ID=54) with 24pt height and width. The Command reference manual explains the line of code shown below.

There is an additional line in the command, which sets the symbol set for UK, explanation of this can be found on page 1-44 & 1-67. The example below selects the UK Symbol set as part of the file.

```
"STX"L  
n  
D11  
ySUK  
1911S5401000100P024P024big  
E
```

L = Starts Label command

n = sets units to inches

D11 = sets pixel size

ySUK = sets Symbol set for UK

S54 = font ID