

**epson400**

**COLLABORATORS**

	<i>TITLE :</i> epson400		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		August 9, 2022	

**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

# Contents

<b>1</b>	<b>epson400</b>	<b>1</b>
1.1	main . . . . .	1
1.2	intro . . . . .	1
1.3	req . . . . .	2
1.4	feat . . . . .	2
1.5	install . . . . .	3
1.6	pref . . . . .	3
1.7	hist . . . . .	4
1.8	auth . . . . .	5

---

# Chapter 1

## epson400

### 1.1 main

Epson Stylus Colour 400/440/500 driver  
By Peter Hutchison  
26/10/00 40.20

Introduction

Requirements

Features

Installation

Preferences

History

Author

### 1.2 intro

Introduction

This is my sixth driver to be released . This is a colour printer driver for the 400 series of the Epson Stylus Colour printers. It should also work with the older Stylus 500.

Please note that the 400 has limited text capabilities.

Important Note

According to the brochure, the 400 is 'Designed exclusively for Windows using Epson printer driver technology'. I have used ESC/P2 commands to drive this printer but may not work in some cases or give unexpected results. No details of emulation modes are listed.

---

The Epson Stylus 300 has limited text features and will only print in Upper Case only. Please use a graphical Word Processor for upper and lower case printing. TurboPrint has a feature to print in upper/lower case to overcome this limitation.

## 1.3 req

### Requirements

Computer: Any Amiga

Workbench: WB 1.3 or better

Printer: Epson Stylus 300, 400, 440,460, 500.

Photo printers require 24 bit drivers such as TurboPrint or Studio.

EpsonPrefs program requires Workbench 2 or higher for GadTools interface.

NB: Please note that new printers use ESC/P2 Raster and Remote with new commands eg.ESC(r, ESC(k, ESC(\, ESC(S, ESC(R which are not supported yet as they are not documented.

NB: Printer enhancement packages such as Turboprint/Studio should not be used with this driver.

## 1.4 feat

### Features

Colour: CMYK (Colour AND Black)

Resolution: 180 to 720 dpi.

Supports Microweave in Letter Quality mode.

Aspect: Portrait and Landscape

Output: B&W and Colour Text,  
B&W, greyscale and colour graphics

Print Method: Uncompressed data

Typefaces: Roman, Sans Serif, Courier, Prestige, Script,  
Roman T, Sans serif H.

Optimised for Speed

Compiled with SAS C 6.58

Now includes version for 68000 and 68020.

Densities

---

0 180 x 180  
1 180 x 180  
2 360 x 360  
3 360 x 360  
4 360 x 360  
5 720 x 720  
6 720 x 720  
7 720 x 720

Paper: 10in for most sizes, 14in for US LEGAL  
Recommend densities 0-4 for Word Processing output.

## 1.5 install

Installation

Run Install\_Driver and follow instructions, select printer that matches your Amiga (68000 or 68020) and Printer model. If installing a new driver run the Preferences to select the correct driver and set it up (see below).

## 1.6 pref

Preferences

### 1. Printer

Printer Type - select appropriate printer from list  
Printer Port - usually Parallel  
Printer Pitch - Pica, Elite or Fine (choose one that suits you)  
Print Spacing - 6 or 8 lpi (I use 6)  
Print Quality - Use Letter for max quality  
Paper Type - Use Single for paper such as A4  
Paper Format - Use US Letter, US Legal or DIN A4 for standard single sheet paper ↔  
Paper Length - Set this for CUSTOM sized paper (no. of lines)  
Margins - Use 2 and 80 characters

### 2. PrinterGfx

Dithering - Floyd Steinburg for best quality  
Scaling - Integer for line gfx or text.  
Use Fraction for shaded pics.  
Image - Positive (Neg is rarely used)  
Aspect - Horizontal  
Shade - Color (NB: Use BW if using Multiview with Text)  
Threshold - Around 8 (use a smaller figure if too dark)  
Density - Use whatever you fancy (use a small figure for speed and less ink)  
Color Correction - Don't set, use all 4096 (12 bit) colours

---

Limits - Set to ignore  
 Smoothing - Used to smooth out lines esp. in graphic dumps of text  
 Centre Picture - Tick this if you want centralised pics

### 3. EpsonPrefs (WB2+)

Microweave - Turns on Microweave mode for reduced banding.  
 Dot Control - Enable/disable smaller print dots for higher density graphics  
 Gamma Control - Gamma correction for graphics (0, 1.1 to 2.5)  
 Typeface - Select a typeface for ASCII text printing  
 Character Set - International character set selection

Further information is in your Workbench Users Guide (Ch 9) or see my web page for info on preferences.

If you are experiencing problems with this driver send me email (see below). The latest version can be downloaded from Aminet or my Web page below, it also appears on Amiga Format's CD.

## 1.7 hist

### History

- 1.0 First release (developed from 600 driver).
- 1.1 Removed ESC P command from end of gfx mode string.
- 1.2 Rewrote init strings. Used ESC! instead of a load of text formatting commands, Removed ESC P command from render.c as well.
- 1.3 Removed ESC p 0 command from dospecial.c. Added missing comma in data.c
- 1.4 Updated init strings in Dospecial.c and Render.c  
 Added ESC! to render.c and replaced m & n with real values.  
 In Dospecial.c added ESCr0 to set colour to black.
- 1.5 In Render.c, changed margins to use 0 and 255 (max) instead of 1 and 80.  
 The 'P' could be coming from the Right margin command which is repeated during a print esp in FW. Added LF to end of every graphics row.  
 Also added page lenght command to Render.c.
- 1.6 Combined init strings in Render.c. Removed extra LF at end of gfx row.
- 1.7 Removed left/right margin commands in Render.c
- 1.8 Removed Wide\_Tractor code from density function. Updated docs (prefs).  
 Reinserted page length command.
- 1.9 Added, support for typefaces.
- 1.10 Added support for Paper format preference. Added 300 to driver list plus warning about text modes.
- 40.11 Dospecial.c - Added ESC@ to init printer. Added default char set.  
 Changed version string to match OS versions.  
 Render.c - Added ESC@ to init printer.
- 40.12 DoSpecial.c - Inserted missing command in init string. Was printing As in Mutliview. Oops.
- 40.13 Render.c - Changed init string to use new ESC(C and ESC(c commands
- 40.14 Render.c - Changed init string back to older string.
- 40.20 Included new EpsonPrefs program for Epson specific features and included

support in the driver. Added Gamma Control to driver.  
68040 version added.

## 1.8 auth

Author

This driver is Giftware, you are not obliged to send anything but if you want to contribute to further driver development for this printer and others then send me either money (5UKP) or old software (Send me a list first and they must be originals):

Email: [pjhutch@blizzard.u-net.com](mailto:pjhutch@blizzard.u-net.com)  
Web: <http://www.blizzard.u-net.com>

or  
Peter Hutchison  
75 Lower Skircoat Green  
Copley Lane  
Halifax  
W Yorks  
England  
HX3 0TG

---