

BJC6000

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REVISION HISTORY

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Chapter 1

BJC6000

1.1 main

BJC6000 Guide

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    Installation

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    Text printing

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1.2 about

This is a Workbench 3.5 printer driver for Canons BJC6000 printer.

I wrote this because Canon have dropped development of printer drivers for the Amiga. Unfortunately I already had the printer by the time I discovered this.

When I got the ADCD 2.1 I decided to try writing my own, using the deskjet code supplied on the CD.

Here is the result. It is far from finished, but hopefully there is someone out there who will have use for it.

Note that Canon have removed one of the emulation modes from this printer,

as it is primarily a Windows printer. This means that the printers text mode is extremely limited.

Supported printers:

Canon BJC6000 (tested - mine)

Probably supported: (Not tested)

Canon BJC6100, BJC6200, BJC6500 (A4 only)

Canon BJC3000

Canon S400/S450.

Other Canon printers might work... try at your own risk!

(e.g. BJC80's will print OK with density 2 or 3)

Important!!!!

Please note that while I have tested this printer driver to the best of my ability, there are NO WARRANTIES implied or otherwise. You use it at your OWN RISK!

Also note neither Canon UK, Amiga Inc or any affiliated companies are involved in any way with this printer driver, If you have problems, contact me.

This driver is based on the Deskjet880C code on ADCD2.1 by Olaf Barthel, and is released With permission of Olaf Barthel and Amiga Inc. Copyright Amiga Inc 2002

1.3 installation

Installation is easy, just drag the CanonBJC6000 Icon to your devs/printers drawer.

Select 'CanonBJC6000' from the printer prefs program.

1.4 usage

Usage? For a printer driver?

Yes, there are some features you should be aware of.

For Ordered and Halftone dithering methods only CMYK printing is supported, even with a photo printhead installed. Photo black will be used as black.

For Floyd-Stenberg the same applies to densities 1-4.

However Floyd-Steinberg with density >4 uses special dithering routines

5 gives DMT (Drop Modulation Technology) - variable size drops at 360x360 (CMYK only at present)

6 & 7 use single drop size photo printing - therefore you will need a BC32 installed in the left cartridge slot. Printout will still happen if you don't but the printer will use Magenta for Photo Magenta and Cyan for Photo

Cyan. (This will not look very good)

On the printer/settings page the Threshold setting can be used to adjust the gamma value of the printed image.

Threshold 1 is uncorrected - use this with programs that perform their own colour & gamma corrections (Like Canon Studio - but see bugs)

Threshold 8 is 2.1 - the windows default, and a good starting point for 360x360 printouts.

Higher values = lighter picture.
(Affects all dither modes)

1.5 text

The Canon BJC6000 has a very limited text mode compared to other printers, but it can be used by most AmigaOS programs.

Some things to note:

Text font is Courier 10 cpi/6 lpi only.
Maximum page length is 66 lines (printer limitation)
Printer preferences right margin is supported, but not left or top.

Right margin can be anything up to 80 (8" at 10cpi)

Text and graphics on the same page is not possible.

This text mode is different to the one on other Canon printers, and it probably won't work on older BJC series printers.

1.6 bugs

I've found most bugs, but some almost certainly still exist.

Firstly the driver is very slow, I hope to make it faster in the future.

Colour correction isn't very good. (There isn't any yet..)

Canon Studio thinks the printer is B&W only. (Well my version does)
This may also be a problem with other programs.

Problems you might find are:

Printout the wrong size.

Nothing being printed.

REPORT THESE TO ME!

I need to know: Program you are printing from, and some system details.

A print dump might help. (use a printspooler or CMD)

The 'Centre picture' option is not supported yet - I don't find this a problem, let me know if you do.

Future:

Preferences editor with:

Printhead selection

Paper type selection

Printhead cleaning/aligning

1440x720 printouts (low priority)

1.7 history

History:

- 44.1 24/6/00 - First working version. Mostly code from ADCD 2.1, but prints from Multiview. Strip printing e.g. from (Final Copy/Canon Studio) not working Yet.
- 28/6/00 - Final Copy prints OK now. Canon Studio doesn't (and still in black also) Added first attempt at DMT.
- 4/7/00 - Fixed DMT mode, wasn't valid with Transparencies!
- 5/7/00 - Fixed strip printing
- 44.2 13/7/00 - Added a workaround for PPaint which seems to send LF's before a printout. Can now printout from OK from CS/PP/FC. [well - CS still thinks the printer is B & W.]
- 44.3 16/9/00 - (Back after doing other projects..) - Overhaul some of the code, removed 1440 x 720 mode to add a 720 x 720 photo mode. Set paper margins during printer initialization. (I was forcing A4 size)
Investigated adding a prefs window, this will be delayed as I'm having troubles with StormC and reactor.
- 26/9/00 - Update gamma tables so 2.1 is threshold 8.
removed 15th gamma table - saving 256 bytes.
reordered densities.
- 44.4 17/01/01 - New docs from Canon UK. Added 1st attempt at text printing!
25/01/01 - Text printing now works properly. but I have to leave the printer in text mode, or some text gets lost.
11/02/01 - Decided to remove the left margin code as it was causing problems at the top of some pages. I'll fix this in the future.
Printer now returns to neutral mode after text and graphics ↔ printouts
= no more flashing power light. (Hopefully)
- 44.5 27/08/02 - Fixed '2nd page not printing' bug when printing from Final Copy. 1st Aminet release.

1.8 author

This printer driver was written by:

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Send all enquiries to me and not to Canon or Amiga Inc

Comments (good/bad) welcome.

email me if you are using this printer driver.

Code based on Deskjet 880 code on ADCD2.1, with lots of modifications.

Compiled with StormC 3.0

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Printer commands supplied by Canon UK.
