CONFIGURATION GUIDE

This booklet lists all the printers and interface cards that SIDEWAYS supports, and will tell you how to install SIDEWAYS for your hardware configuration.

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Selecting a Printer

The INSTALL program's printer selection menu will allow you to select one of the following printers:

Apple Dot Matrix Printer	Mannesmann Tally Spirit
Apple Imagewriter	Mannesmann Tally 160/180
Apple Scribe	NEC 8023
C.Itoh Prowriter	Okidata ML 82A/83A (Okigraph)
Epson MX, RX, or FX	Okidata ML 92/93
Gemini 10X/15X	Okidata ML 182/183/192/193
Hewlett-Packard ThinkJet	Okidata ML 84 Step 2
IDS Prism, Micro-Prism, 460/560	Texas Instruments 850
	Texas Instruments 855/865

Dot-Addressable Graphics

Your printer must have dot-addressable graphics capability in order to work with SIDEWAYS. Most of the printers listed above have this capability as a standard feature; for the following printers, graphics is an option available from your dealer:

- **Epson MX-80** — "Graftrax option" (standard on more recent models)
- **Okidata ML 82A/83A** — "Okigraph" option
- **IDS Prism** — "Dot Plot" option

Epson-Compatible Printers

Many printer manufacturers are making their printers software-compatible with Epson printers. In most cases, such a printer will work perfectly when installed as an Epson. However, if your printer doesn't, we've provided two additional "Epson-compatible" installation options for you to try.

DIP Switch Settings

Apple DMP, C.Itoh Prowriter, NEC 8023 — SW1-7 must be CLOSED.

IDS Prism, Dataproducts P-80/132 — Switch 7 on Function Select DIP S4 must be ON, to enable graphics.

Selecting an Interface Card

The printer interface cards supported by SIDEWAYS are listed below. Your interface may be parallel or serial; each type is listed separately.

If you have an Apple IIc, you don't need a separate printer interface card — your interface is already built into your computer. Select the "Apple IIc Serial Port" installation option.

Parallel Interfaces

Apple Parallel Interface
ALS Dispatcher
ALS Printermate
CCS 7728
Dumpling
Dumpling 64
Fingerprint
Franklin Ace 1200 Dual Interface
Grafstar
Grappler Plus
Grappler (older model)
Microbuffer II
Mountain CPS Parallel
Pkaso
Texprint Print it!
Videx Uniprint

Serial Interfaces

Apple Super Serial Card
Apple IIc Serial Port
CCS 7710/Versacard Serial
Grappler Serial
Grappler Serial Plus
Mountain CPS Serial

Most other interface cards are compatible with one of the cards listed above. If your interface card is not listed above, look for it in the chart below. The column on the left lists additional interface cards; the column on the right shows which interface card option to select when you run the INSTALL program.

If you have:	Install it as:
Epson APL	Apple Parallel Interface
Fingerprint Plus	Grappler Plus
Franklin 2000 parallel port	Apple Parallel Interface
Graphicard	Microbuffer II
Orange Interface	Apple Parallel Interface
Okidata Plug 'n Play/normal	Apple Parallel Interface
Okidata Plug 'n Play/smart	Grappler (older model)
Prometheus PRT-1	Apple Parallel Interface
RV-611C	Apple Parallel Interface
SSM (Transend) APPIC	Apple Parallel Interface
Spies Lab Super-MX	Grappler (older model)
Tymac PPC-100	Apple Parallel Interface
Tymac Tackler/normal	Apple Parallel Interface
Tymac Tackler/smart	Grappler (older model)
Versacard Parallel	Apple Parallel Interface
Wesper IP/BPO	Apple Parallel Interface

If you have a different card from any of the ones we've listed, the installation options most likely to succeed are ''Apple Parallel Interface'' if your interface is parallel, ''Apple Super Serial card'' if your interface is serial.

Selecting a Slot Number

When you run the INSTALL program, you must indicate in which slot your printer interface card is located. Typically, this would be slot number 1.

If you have an Apple IIc, you would select Slot Number 1 or 2 based on whether your printer is connected to Serial Port 1 or 2 (normally port 1).

Selecting the Number of Data Bits

Normally, your computer will send data to your printer as a series of "bytes", each of which is 8 "bits" long. However, it is possible that, due to limitations in your interface card, your cable, or your printer, only 7 of those bits will get there. If this is the case, you must inform SIDEWAYS of the fact, so that it won't send out more bits per byte than can get through to the printer.

In general, you should select 8 data bits. However, if you have one of the following interface cards, you must select 7 data bits:

- Epson APL
- Older models of the Apple Parallel Interface
- Mountain CPS Parallel

Certain printers have DIP switch settings which either enable or disable the 8th bit. You should normally set these DIP switches to enable the 8th bit; however, if you disable the 8th bit in your printer, you must also select 7 data bits when installing SIDEWAYS.

If you incorrectly select 8 data bits when you should select 7, you will notice that, periodically, all the characters in a column will be missing one print dot. Also, on Epson printers, the printout will be a jumble of rotated and non-rotated characters.

While 8 bits is preferable, SIDEWAYS will handle most printers perfectly well using 7 bits. However, for the following printers to operate at all, you must select 8 data bits:

- Mannesmann Tally Spirit
- Mannesmann Tally 160/180

Cursor Control on the Apple II+

Since the II+ does not have up- or down-arrow keys, use <CTRL> <E> and <CTRL> <X> to move the cursor between menu options in the DOS and ProDOS versions of SIDEWAYS.