

THE PORTABLE

MASS
STORAGE

COMPATIBLE DISC DRIVES

CS 80 Drives*

9114

9122

79xx

9133D

9134D

.

.

.

Amigo Drives

8290x

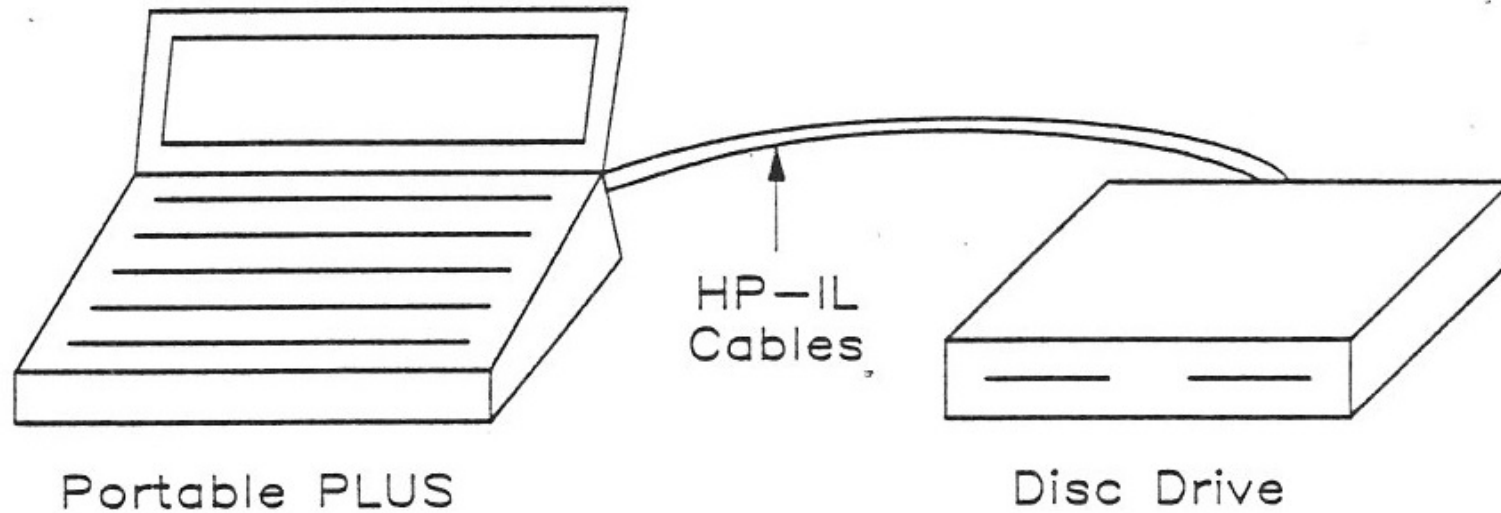
9121

9895

913x

CS 80 stands for Command Set 80

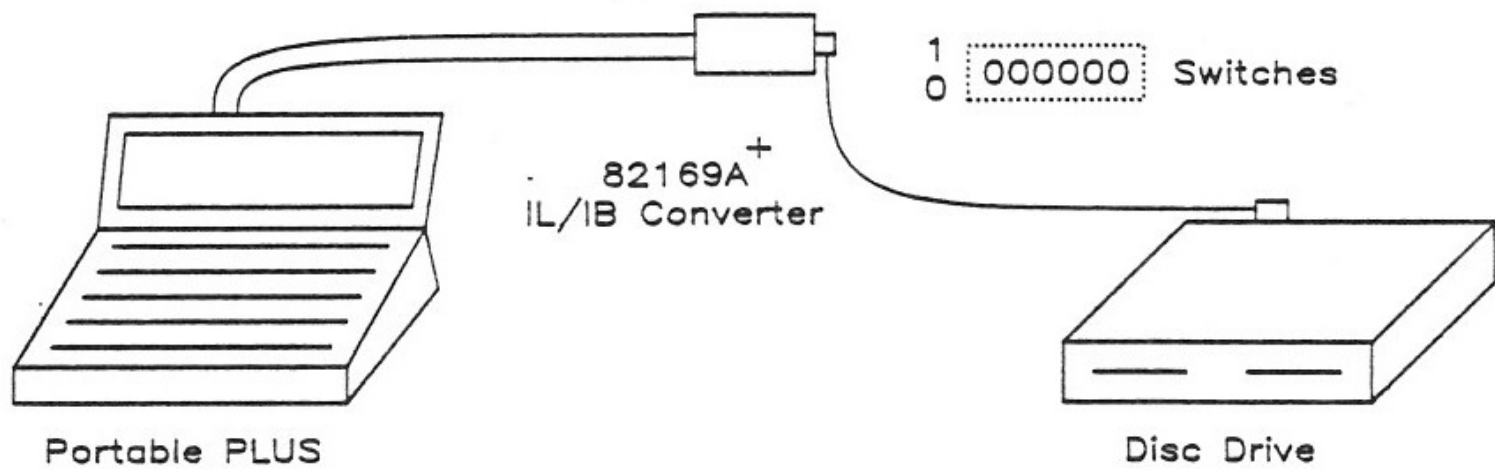
CONNECTING AN HP-IL DRIVE



P.A.M. System Configuration Menu

External Disc Drives:

CONNECTING AN HPIB CS 80 DISC *



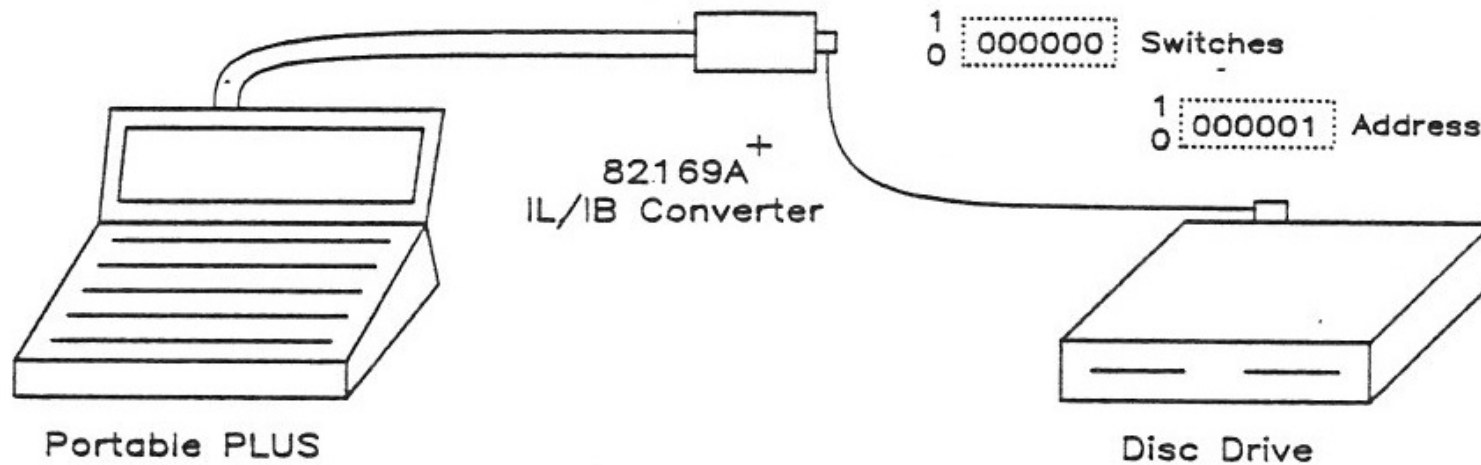
P.A.M. System Configuration Menu

External Disc Drives:

* 79xx, 9122, 913xD

⁺ Serial # > 2406A00000

CONNECTING AN HPIB AMIGO* DISC



P.A.M. System Configuration Menu

External Disc Drives: !

* 913x, 8290x, 9121, 9895

⁺ Must be serial # 2406A... or later

TELLING THE PORTABLE PLUS ABOUT AMIGO DRIVES

You must tell the Portable PLUS about Amigo drives differently. The "External Disc Drives" field will not do it. A separate device driver called AMIGO.SYS must be installed.

In file CONFIG.SYS, you must put

```
DEVICE=B:\BIN\AMIGO.SYS [/a#x[,a#x[,...]]]
```

where a is disc address and x is number of drives.

Example (from previous slide):

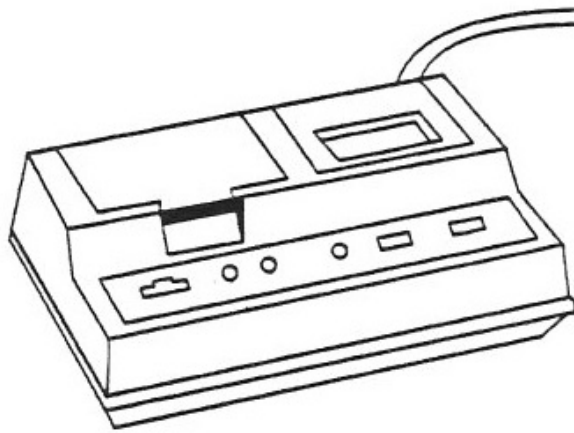
```
DEVICE=B:\BIN\AMIGO.SYS /1#2
```

LAB

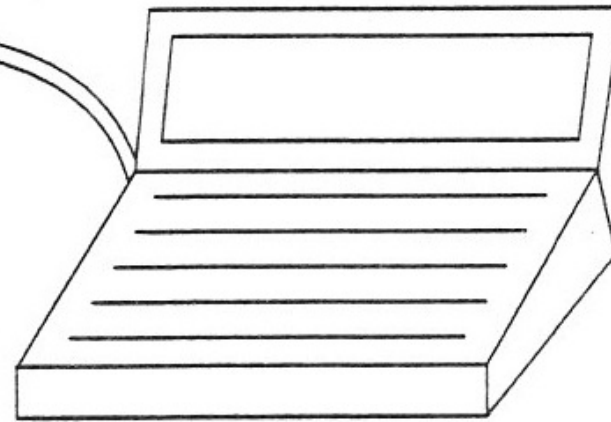
Connect and use an AMIGO protocol
disc drive.

AN ADDED BONUS

For the smallest peripheral mass storage, the Portable PLUS supports the 82161A Digital Cassette Drive as though it were an MS-DOS disc drive.



82161A



Portable PLUS

External Disc Drives:

1

DISC CAPACITIES

Double-sided 3.5"	700Kb
Single-sided 3.5"	270Kb
5.25"	270Kb
8"	1.15Mb

DISC BENCHMARKS

<i>Disc</i>	<i>Speed</i>	<i>Interleave</i>
9114 DS 3.5"	3.5Kb/S	4
9121 SS 3.5"	1.7Kb/S *	?
9122 DS 3.5"	1.7Kb/S *	?
8290x 5.25"	1.7Kb/S *	?
913x hard disc	1.7Kb/S *	NA

* 82169A HP-IL/HPIB Converter speed limit

DISC FORMATS.

The double-sided Sony disc is capable of creating, reading, and writing discs in the following formats.

Sector Size

256 b/sector

512 b/sector

1024 b/sector

THE FORMAT UTILITY

The FORMAT program is capable of formatting DOUBLE-SIDED discs in four different formats. It works like this:

FORMAT D: [/C /I /Q /W /X /Y /Z]

/C, /I, /Q are as before

/W format single-sided

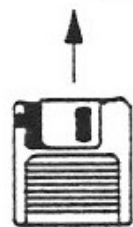
/X double-sided, 256 bytes/sector

/Y double-sided, 512 bytes/sector

/Z double-sided, 1024 bytes/sector

COMPATIBLE 3.5" FORMATS

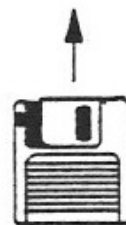
9121D
single-sided



Double-sided
disc

FORMAT /W type
discs only!

9122/9114
double-sided



Single-sided
disc

All standard formats
accepted.

FORMATTER UTILITY

Lab

Using the formatter utility on the
Portable PLUS:

1. create a single-sided disc,
2. put a MemoMaker file on it,
3. take it to a Touchscreen and
read it into MemoMaker.

RAMDISC

Size/configuration

Minimum size: 4K

Maximum size: memory dependent (512K)

Increment: 4K

The RAMDISC must be configured from P.A.M. P.A.M. will allow only as much free space as exists on the disc to be used for memory.

RAMDISC

How Fast Is It?

Let's find out! Do this:

```
COPY CON TEST [Return]
```

```
[Return]
```

```
^Z [Return]
```

Now in MemoMaker, create the file TEST.BAT like this:

```
TIME <TEST
```

```
COPY B:\BIN\PAM.COM A:
```

```
TIME <TEST
```

Compare the times. PAM.COM is about 37K bytes!

RAMDISC

Question

"I have 50000 bytes free on my Edisc, but P.A.M. won't let me reduce the size. How come?"

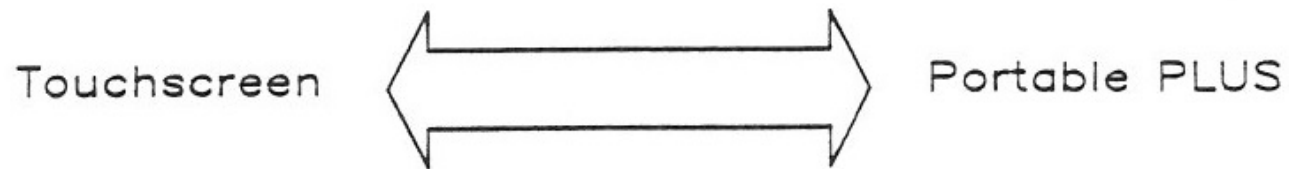
Answer

Your free space is scattered around Edisc; to shrink Edisc, it must be at the end of Edisc.

Solution

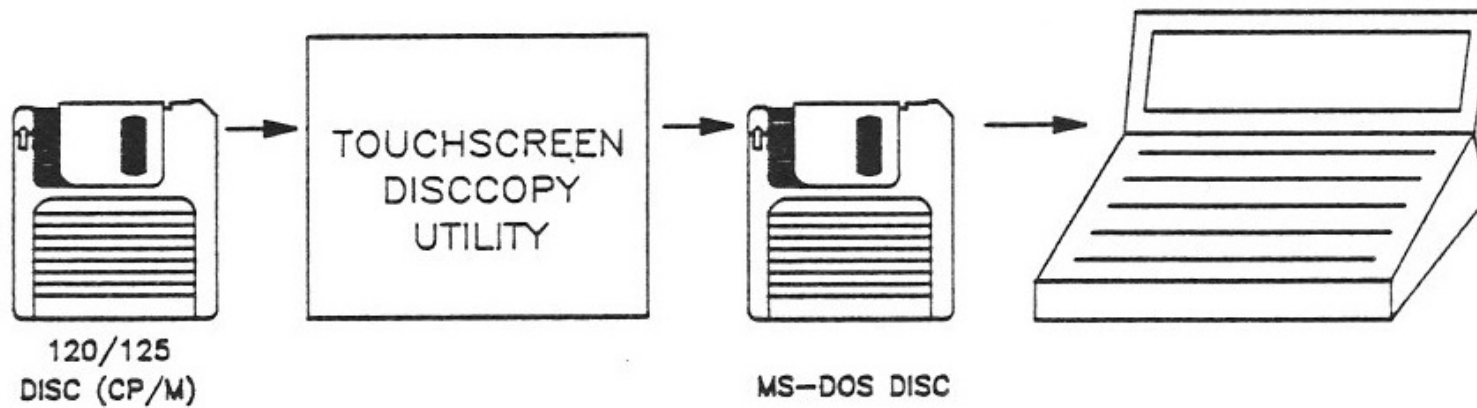
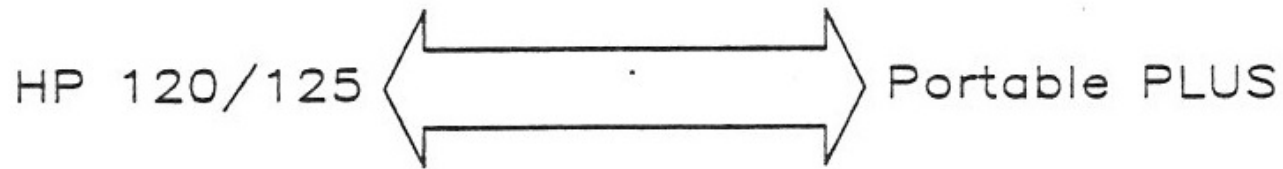
Run the PACK utility.

FROM HERE TO THERE



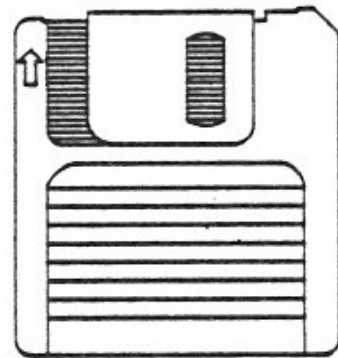
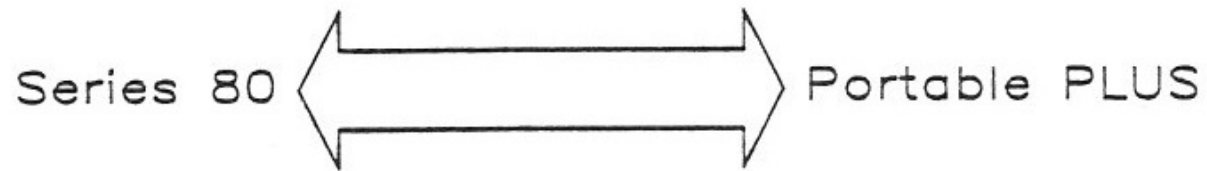
"If it can read the disc, it can read
the data!"

FROM HERE TO THERE



Yes, at the present time, the Touchscreen utility must be used.

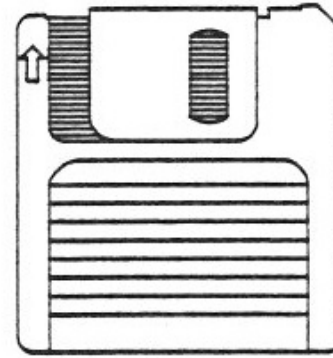
FROM HERE TO THERE



Series 80 disc

HP to CP/M →

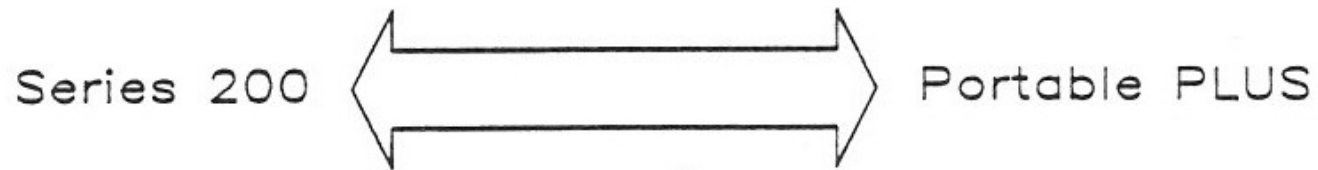
An arrow points from the Series 80 disc to the HP 120/125 disc, with the text 'HP to CP/M' written above it.



HP 120/125
disc (CP/M)

Once on a 120/125 disc, use previous procedure.

FROM HERE TO THERE



USE DATACOMM!