MICRO DESIGN PLUS
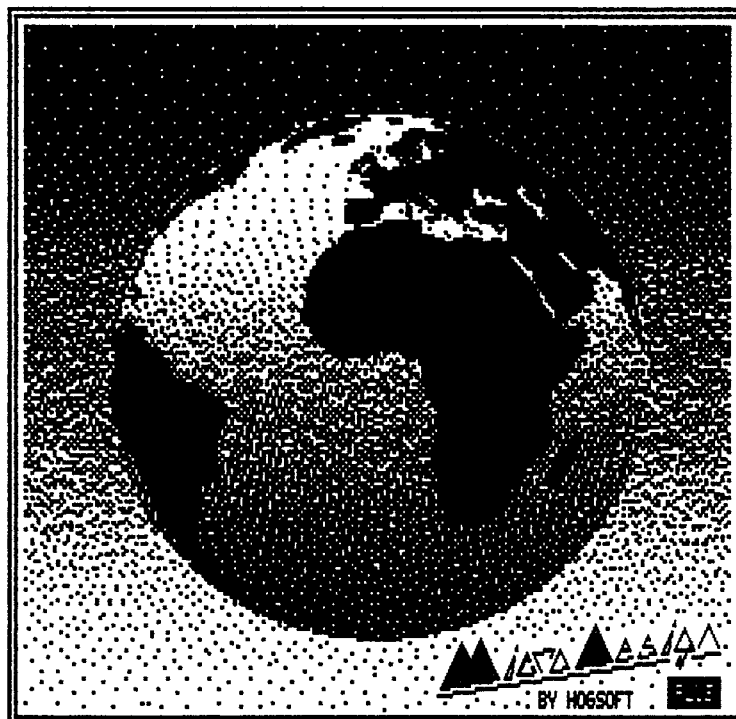
THE ADVANCED PAGE PROCESSOR AND DESIGN
PACKAGE FOR THE AMSTRAD CPC COMPUTERS.

FOR: 6128 PLUS
     cpc 6128
     cpc 664 + 64k RAM
     cpc 464 + 64k RAM + DISC DRIVE

CUSTOMER SUPPORT: 041 - 554 - 4735
Mondays to Fridays 7.00 to 10.00 PM

MICRODESIGN PLUS

This package provides users of MicroDesign (Version 1.1) with several enhancements. These include faster loading, an extended FILING MENU (with access to a second Drive and ten User Areas), ROMDOS compatibility, and a new suite of programs allowing the conversion of text, screen and Stop Press files to MicroDesign format (DR files) and also the manipulation (inversion, enlargement or reduction) of MicroDesign DR files.

INSTALLATION

Insert side one of your MicroDesign PLUS disc in Drive A and RUN"INSTALL. Have your original MicroDesign (Version 1.1) disc to hand and follow the on screen instructions. When the installation is complete the new version will be run automatically. When it has loaded press [X] and [F] to reveal the extended FILING MENU. Press [Q] followed by [Y] to reset your computer. The INSTALL program can now be erased. (IERA,"INSTALL" [RETURN])

To run your new PLUS version of MicroDesign from now on.... RUN"DISC.

Note: To achieve the fast loading speed, some program data is directly written to (and read from) the disc's sectors. For this reason, copying files from this disc to another will not result in a backup disc.

EXTENDED FILING MENU

Four new options have been added to this menu....

    Press [D] to toggle between Drive A and B.
    Press [U] to cycle through User Areas 0 to 9.
    Press [M] to access MD+ conversion programs.
    Press [Q] to reset to Basic.

All other options remain unchanged.

MD+ CONVERSION SUITE

This suite of programs may be run from Basic (RUN"MD+) or accessed from the extended FILING MENU (Press [M]).

> PLEASE SAVE ANY DESIGN THAT YOU ARE WORKING ON BEFORE TAKING THE LATTER OPTION OR IT WILL BE LOST

MD+ is MENU CONTROLLED via the Cursor Keys and the Numeric Keypad (function keys). Please note that the [ESC] key will abort the current operation and return you to the menu from which you came.

All menus (with the exception of the Options Menu) use key [f4] to select the main Options Menu.

All menus (with the exception of the File Conversion Menu) use keys [f9] and [f8] to Catalogue and Change Drive/User respectively.

```
┌─────────────────────────────────────┐
│         THE OPTIONS MENU            │
├─────────────────────────────────────┤
│                                     │
│   Disc Catalogue.......... f9       │
│   Change Drive/User........ f8       │
│   File Conversion Menu..... f7       │
│   Run MicroDesign.......... f6       │
│   Customise MicroDesign.... f5       │
│   Quit..................... f4       │
│                                     │
└─────────────────────────────────────┘
```

| f9 Disc Catalogue | Displays all filenames from the currently selected Drive/User Area.
Press any key to return to the menu. |

| f8 Change Drive/User | Enter the desired Drive and/or User Area then press [RETURN]. |

Example 1 — To select Drive B, User Area 3.....
Press [B], press [3], press [RETURN].

Example 2 — To select Drive A, User Area unchanged....
Press [A], press [RETURN].

Example 3 — To select User Area 10, Drive unchanged....
Press [1], press [0], press [RETURN].

Press [RETURN] only to re-select the current Drive/User Area.

| f7 File Conversion Menu | Displays the File Conversion Menu. (See below) |

| f6 Run MicroDesign | Runs your new version of MicroDesign. |

| f5 Customise MicroDesign | Displays the Customisation Menu. |

| f4 Quit | Displays the Helpline telephone numbers and asks for confirmation before resetting your computer. Press [Y] to reset, [N] to return to the Options Menu. |

```
┌─────────────────────────────────────┐
│        FILE CONVERSION MENU         │
├─────────────────────────────────────┤
│                                     │
│   Manipulate DR File....... f9       │
│   Invert DR File........... f8       │
│   Convert Text File........ f7       │
│   Convert Screen File...... f6       │
│   Convert Stop Press File.. f5       │
│   Options Menu............. f4       │
│                                     │
└─────────────────────────────────────┘
```

This Menu is a "Halfway House" to the five File Conversion Menus. Select the Menu of your choice by pressing the appropriate key. Note that keys [f9] and [f8] do not function as on the other Menus.

```
┌─────────────────────────────────┐
│      DR FILE MANIPULATION        │
│                                  │
│   Disc Catalogue.......... f9    │
│   Change Drive/User........ f8   │
│   Stretch/Reduce DR File... f7   │
│                                  │
│   File Conversion Menu..... f5   │
│   Options Menu............. f4   │
└─────────────────────────────────┘
```

f7 Stretch/Reduce DR File	Displays all filenames from the currently selected Drive/User Area with the filetype.... DR

Select a file using the cursor keys then press [RETURN] or [f0].

The dimensions of the selected drawing will be displayed....width in 8-pixel units and height in single pixels.

You will be asked for two parameters followed by the destination Drive/User Area, and the destination filename.

Horizontal Stretch　　Press [RETURN] to leave the width unchanged.

To stretch the file, enter any number up to 240 then press [RETURN]. For example, pressing [3] then [RETURN] will result in a new DR file three times the width of the source file.

To reduce the width of the file, enter a minus sign [-] followed by [RETURN]. This will result in a new DR file HALF the width of the source file.

Vertical Stretch　　Press [RETURN] to leave the height unchanged.

To stretch the file, enter any number up to 253 then press [RETURN]. For example, pressing [4] then [RETURN] will result in a new DR file four times the height of the source file.

To reduce the height of the file, enter a minus sign [-] followed by [RETURN]. This will result in a new DR file HALF the height of the source file.

Provided the values entered comply with the conditions overleaf, the source DR file will be loaded.

Destination Drive/User　　Press [RETURN] to write the new DR file to the Source Disc or enter the desired Drive/User Area. (Eg. [B],[3],[RETURN].)

Destination Filename　　Press [RETURN] to use the Source Filename or enter a new filename then press [RETURN].

Insert the Destination Disc in the Drive and press a key.

Any combination of horizontal stretch/reduction and vertical stretch/reduction is acceptable provided that the resultant DR file will fit onto one of MicroDesign's three page formats. For example, it is possible to stretch a file horizontally while at the same time reducing its height or vice versa. This versatility results on occasion in a new DR file which will not fit onto the page format from which the source file was saved. Please note that reduction is always by a half.

MicroDesign Page Dimensions			
	Upright A4	Sideways A4	Strip
Width	120 X	136 X	240 X	(8-pixel units)
Height	544	480	256	(single pixels)

```
         DR FILE INVERSION

    Disc Catalogue.......... f9
    Change Drive/User........ f8
    Invert DR File.......... f7

    File Conversion Menu..... f5
    Options Menu............. f4
```

f7 Invert DR File — Displays all filenames from the currently selected Drive/User Area with the filetype.... DR

Select a file using the cursor keys then press [RETURN] or [f0].

Destination Drive/User — Press [RETURN] to write the new DR file to the Source Disc or enter the desired Drive/User Area. (Eg. [B],[3],[RETURN].)

Destination Filename — Press [RETURN] to use the Source Filename or enter a new filename then press [RETURN].

Please note that it is not possible to use separate source and destination discs in the same Drive.

The new DR file will be identical to the Source file in every respect except that the colours will be reversed.

```
┌──────────────────────────────────┐
│   TEXT FILE CONVERSION MENU       │
│  ┌────────────────────────────┐   │
│  │ Disc Catalogue.......... f9 │   │
│  │ Change Drive/User........ f8 │   │
│  │ Load User Defined Font... f7 │   │
│  │ View Text File........... f6 │   │
│  │ Convert Text File........ f5 │   │
│  │ Options Menu............. f4 │   │
│  └────────────────────────────┘   │
└──────────────────────────────────┘
```

f7 Load User Defined Font

Displays all filenames from the currently selected Drive/User Area with the filetype.... FNT

Select a font using the cursor keys then press [RETURN] or [f0]. After loading, the font will be displayed. This font will be used for Options f6 & f5 until another font is loaded or the Amstrad font is re-selected....that's the one you see when you switch on your computer.

Three fonts are supplied....SANSERIF.FNT, TINY.FNT & TWENTIES.FNT. Others fonts can be created with the Advanced Art Studio or alternatively you can use the FNTDSIGN program supplied (primitive but effective!).

f6 View Text File

Displays all filenames from the currently selected Drive/User Area with the filetype.... TXT

Select a file using the cursor keys then press [RETURN] or [f0]. The file will be printed to the screen. Press [ESC] to pause, any other to continue. Press [ESC] a second time to return to the Menu.

f5 Convert Text File

Displays all filenames from the currently selected Drive/User Area with the filetype.... TXT

Select a file using the cursor keys then press [RETURN] or [f0].

You will be asked for five parameters and the destination Drive/User Area for the resultant DR file(s).

Character Width — Press [RETURN] to select the default value of 1 or enter any number up to 127 then press [RETURN].

Character Height — Press [RETURN] to select the default value of 1 or enter any number up to 68 then press [RETURN].

Characters Per Line — There is no default value. Enter the column width of the text file you wish to convert (Maximum 240) then press [RETURN].

Spacing Between Lines — Press [RETURN] to select the default value of 0 or enter any number from -7 to 7 then press [RETURN].

Lines of Text Per Page — There is no default value. Enter any number from 1 to 68 then press [RETURN].

Destination Drive/User   Press [RETURN] to write converted DR files to the
                          Source Disc or enter the desired Drive/User Area.
                          (Eg. [A],[9],[RETURN].)

                          Please note that it is not possible to use separate
                          source and destination discs in the same Drive.

```
┌─────────────────────────────────────┐
│ SOURCE TEXT FILES MUST BE PURE ASCII │
│    AND HAVE THE FILETYPE....TXT      │
└─────────────────────────────────────┘
```

THE SOURCE TEXT FILE can be as long as you like because, if necessary, multiple
DR files will be created. The only limiting factor is free disc space. Converted
DR files use the first six letters of the source filename and add a 2-digit
number. For example, EXAMPLE.TXT (if no more than a page in length) would
produce EXAMPL01.DR. A longer source file would produce EXAMPL01.DR,
EXAMPL02.DR, etc.

MicroDesign page formats can be described by their "character dimensions" just
as a mode 2 screen can be described as being 80 x 25 characters in size.
However, it should be noted that the character dimensions given below refer to a
character width of 1, a character height of 1 and zero spacing between lines.

```
┌─────────────────────────────────────┐
│      MicroDesign Page Dimensions     │
├─────────────────────────────────────┤
│  1. Upright A4    120 W x 68 H       │
│  2. Sideways A4   136 W x 60 H       │
│  3. Strip         240 W x 32 H       │
└─────────────────────────────────────┘
```

The examples on the back page show how these figures differ when used with other
character sizes and spacing, and give an idea of suitable values to use. Values
which would produce unacceptably big DR files will automatically be rejected. A
little experimentation will go a long way to aid understanding!

It may be of interest to know that this booklet was written as a single file
using Protext, saved in ASCII format using Protext's PRINTF command, and then
converted to DR files via this program with the following parameters....

```
┌─────────────────────────────────────┐
│        Character Width  1            │
│        Character Height 1            │
│      Characters Per Line 80          │
│      Spacing Between Lines 1         │
│      Lines of Text Per Page 60       │
└─────────────────────────────────────┘
```

This creates DR files suitable for loading into MicroDesign's Upright A4 page
format.

Protext users should remember to set all margins with embedded commands prior
to using the PRINTF command.

```
╔══════════════════════════════╗
║ SCREEN FILE CONVERSION MENU  ║
╟──────────────────────────────╢
║   Disc Catalogue.......... f9 ║
║   Change Drive/User........ f8 ║
║   Load Screen File......... f7 ║
║   View Screen/Set Inks..... f6 ║
║   Convert Screen.......... f5 ║
║ · Options Menu............. f4 ║
╚══════════════════════════════╝
```

f7 Load Screen File

Displays the names of all possible screen files (of the correct size for a standard screen) from the currently selected Drive/User Area.

Select a file using the cursor keys then press [RETURN] or [f8]. The file will be loaded into memory.

f6 View Screen

Enter the screen mode (0,1 or 2), press [RETURN] then [N]. Press any key to return to Menu.

f6 Set Inks

Enter the screen mode (0,1 or 2), press [RETURN] then [Y]. The screen in memory will be displayed with a window in the bottom lefthand corner.

Mode 2 Screens   Press [f1] to invert screen colours.
Press [f0] to return to Menu.

Other Screens   Each ink must be set in turn. Areas of the screen which were drawn using the ink in question will flash until you have either.... a) pressed [RETURN] to leave the colour unchanged or.... b) entered a new colour number and pressed [RETURN]. When all the inks have been set, press any key to return to Menu.

f5 Convert Screen

Converts the screen in memory to MicroDesign DR format using the current ink settings. Mode 2 conversion is fast whilst mode 1 and 0 screens convert at a more leisurely pace. On completion a sub-menu will appear....

f7 View Conversion   Displays the result of the conversion.
Press any key to return to sub-menu.

f6 Save Conversion   Press [RETURN] to write the converted DR file to the current Drive/User Area. Different Drive/User Areas should be entered in the usual way.
(Eg. [A],[0],[RETURN].)

Press [RETURN] to use the Source Filename or enter a new filename then press [RETURN].

Insert the Destination Disc in the Drive and press a key.

When converting mode 0 and mode 1 screens careful attention should be paid to the setting of the inks. For technical reasons it has been necessary to allocate the same "grey shade pattern" to more than one colour....

	Colour Nos	Grey Shade Pattern	
In Mode 1....	0 to 6	BLACK	■■■■
	7 to 13	Pattern 1	■■■■
	14 to 20	Pattern 2	■■■■
	21 to 26	WHITE	☐
In Mode 0....	0	BLACK	■■■■
	1 & 2	Pattern 1	■■■■
	3 & 4	Pattern 2	■■■■
	5 & 6	Pattern 3	■■■■
	7 & 8	Pattern 4	■■■■
	9 & 10	Pattern 5	▥▥▥
	11 & 12	Pattern 6	▥▥▥
	13	Pattern 7	■■■■
	14	Pattern 8	▥▥▥
	15 & 16	Pattern 9	▥▥▥
	17 & 18	Pattern 10	■■■■
	19 & 20	Pattern 11	▥▥▥
	21 & 22	Pattern 12	▥▥▥
	23 & 24	Pattern 13	▥▥▥
	25	Pattern 14	▥▥▥
	26	WHITE	☐

```
STOP PRESS FILE CONVERSION MENU

Disc Catalogue.......... f9
Change Drive/User........ f8
Load Stop Press Page..... f7
Load Stop Press Cutout... f6
Convert Page/Cutout...... f5
Options Menu............. f4
```

f7 Load Stop Press Page

Searches the current Drive/User Area for Stop Press Pages. Any found will be previewed on screen with their given name(s).

f6 Load Stop Press Cutout

Displays all filenames from the currently selected Drive/User Area with the filetype.... CUT

Select a file using the cursor keys then press [RETURN] or [f0]. After loading, the cutout will be displayed. Press any key to return to Menu.

f5 Convert Page

Press [RETURN] to convert the page in memory to the current Drive/User Area. Different Drive/User Areas should be entered in the usual way.
(Eg. [B],[3],[RETURN].)

f5 Convert Cutout

See over.

```
┌──────────────────────────┐
│ f5 Convert Cutout        │
└──────────────────────────┘
```
Press [RETURN] to convert the cutout in memory to the current Drive/User Area. OtherDrive/User Area combinations should be entered in the usual way. (Eg. [B],[3],[RETURN].)

Press [RETURN] to use the Source Filename or enter a new filename then press [RETURN].

Insert the Destination Disc in the Drive and press a key.

A Stop Press page is 24 pixels (3 lines of text) longer than an upright A4 MicroDesign page. Consequently the conversion will produce two DR files with the names PAGE1A.DR and PAGE1B.DR or PAGE2A.DR and PAGE2B.DR, depending on which of the two possible Stop Press pages you have converted. However, if the program detects that the bottom of a Stop Press page is blank the second DR file will not be produced.

To print a double conversion, load PAGE1A.DR into MicroDesign and print it. Then without moving the paper in the printer, load PAGE1B.DR and print it using the same settings as before.

```
┌───────────────────────────────────────┐
│ ▓ CUSTOMISE MICRODESIGN ▓              │
│                                        │
│   Change Drive/User........ f8         │
│                                        │
│   Select Printer Driver.... f6         │
│   Alter Colours............ f5         │
│   Options Menu............. f4         │
└───────────────────────────────────────┘
```

```
┌──────────────────────────┐
│ f6 Select Printer Driver │
└──────────────────────────┘
```
Reads the current printer control codes from your MicroDesign PLUS disc and displays them on screen together with a sub-menu....

f1 IBM   Writes IBM codes to disc.

f2 EPSON Writes EPSON codes to disc.

f3 OTHER Enter the codes given in your printer manual (in decimal). Separate the numbers in a two or three digit code with commas. Press [RETURN] to set each code in turn.

For example, to enter the epson codes manually....

Press [f3] to select OTHER
Press [2] [7] [,] [7] [6] [RETURN]
Press [9] [0] [RETURN]
Press [2] [7] [,] [5] [1] [RETURN]
Press [2] [7] [,] [1] [0] [8] [RETURN]

The new printer control codes will be written to your MicroDesign PLUS disc.

```
┌──────────────────────────┐
│ f5 Alter Colours         │
└──────────────────────────┘
```
See over.

f5 Alter Colours	Reads MicroDesign's current paper and pen/border colours from your MicroDesign PLUS disc and displays a sub-menu....

X MENU   Writes colours to disc and returns to Menu.

f9 Paper   Selects Paper colour for alteration.

f8 Pen   Selects Pen/Border colour for alteration.

f7 DiscOps   Selects for alteration the colour used during disc access (Load, Save, Cat, etc.).

f1 NewCol   Alters selected colour by cycling through the 27 available colours.

f0 OK   Re-activates keys [X] and [f9]-[f7].

YOUR MICRODESIGN MANUAL - CORRECTIONS & ADDITIONS

Page 4: RUN"DISC

Page 8: RECTANGLE and TRIANGLE operations are affected by the DOTTED option for the LINE operation.

Page 9: The [SHIFT]/[COPY] key-function also sets the CIRCLE, OVAL and DIAMOND dimensions to zero.

Page 11: It is the Cursor Keys which shuffle the icon in REPOSITION.

WARNING

Program and documentation written by Jess Harpur
Copyright Campursoft 1992

CAMPURSOFT
16 Slatefield Street
Gallowgate
GLASGOW
G31 1UA

SIDEWAYS A4 — TINY

Field	Value
Page Format:	SIDEWAYS A4
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	136 (Max)
Spacing Between Lines:	-1
Lines of Text per Page:	68 (Max)

SIDEWAYS A4 — TINY

Field	Value
Page Format:	SIDEWAYS A4
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	136 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	60 (Max)

SIDEWAYS A4 — AMSTRAD

Field	Value
Page Format:	SIDEWAYS AMSTRAD
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	136 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	60 (Max)

SIDEWAYS A4 — AMSTRAD

Field	Value
Page Format:	SIDEWAYS AMSTRAD
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	136 (Max)
Spacing Between Lines:	1
Lines of Text per Page:	53 (Max)

SIDEWAYS A4 — AMSTRAD

Field	Value
Page Format:	SIDEWAYS AMSTRAD
Font:	AMSTRAD
Character Width:	2
Character Height:	1
Characters Per Line:	68 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	60 (Max)

STRIP — TINY

Field	Value
Page Format:	STRIP
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	240 (Max)
Spacing Between Lines:	-1
Lines of Text per Page:	96 (Max)

STRIP — AMSTRAD

Field	Value
Page Format:	STRIP
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	240 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	32 (Max)

STRIP — AMSTRAD

Field	Value
Page Format:	STRIP
Font:	AMSTRAD
Character Width:	3
Character Height:	2
Characters Per Line:	80 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	16 (Max)

STRIP — TINY

Field	Value
Page Format:	STRIP
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	240 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	92 (Max)

STRIP — AMSTRAD

Field	Value
Page Format:	STRIP
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	240 (Max)
Spacing Between Lines:	1
Lines of Text per Page:	28 (Max)

STRIP — AMSTRAD

Field	Value
Page Format:	STRIP
Font:	AMSTRAD
Character Width:	2
Character Height:	2
Characters Per Line:	120 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	16 (Max)

STRIP — AMSTRAD

Field	Value
Page Format:	STRIP
Font:	AMSTRAD
Character Width:	2
Character Height:	2
Characters Per Line:	120 (Max)
Spacing Between Lines:	1
Lines of Text per Page:	14 (Max)

UPRIGHT A4 — TINY

Field	Value
Page Format:	UPRIGHT A4
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	120 (Max)
Spacing Between Lines:	-1
Lines of Text per Page:	77 (Max)

UPRIGHT A4 — TINY

Field	Value
Page Format:	UPRIGHT A4
Font:	TINY
Character Width:	1
Character Height:	1
Characters Per Line:	120 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	68 (Max)

UPRIGHT A4 — AMSTRAD

Field	Value
Page Format:	UPRIGHT A4
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	120 (Max)
Spacing Between Lines:	0
Lines of Text per Page:	68 (Max)

UPRIGHT A4 — AMSTRAD

Field	Value
Page Format:	UPRIGHT A4
Font:	AMSTRAD
Character Width:	1
Character Height:	1
Characters Per Line:	120 (Max)
Spacing Between Lines:	1
Lines of Text per Page:	60 (Max)

UPRIGHT A4 — AMSTRAD

Field	Value
Page Format:	UPRIGHT A4
Font:	AMSTRAD
Character Width:	2
Character Height:	1
Characters Per Line:	60 (Max)
Spacing Between Lines:	1
Lines of Text per Page:	60 (Max)