

G051 - 51 COLUMN SCREEN DRIVER

G051 is a high resolution screen driver for the Color Computer running the powerful OS/9 operating system. This screen driver gives you 51 characters per line and 24 lines per screen on a green and black screen.

FEATURES OF G051

Automatic Keyboard Repeat - When entering text there are times when you want characters, numbers or symbols to repeat themselves. We have incorporated what is called an auto repeat function into the G051 Screen Driver. If you hold down any key on the Color Computer keyboard for more than 3 seconds it will begin repeating itself across the screen. This feature has many applications and is a great convenience when you are editing text and moving the cursor around the screen.

Character Set - The characters on the screen have been specially designed to allow you to read them easily. The resolution of characters on a TV or a low voltage monitor is sometimes hard to read. G051 optimizes as much as possible the resolution of your screen and gives you good readable characters.

Underline - When you are in Stylograph G051 will allow you to actually see the words underlined. This is a unique feature which many of your more expensive desk top computers can't even do. Stylograph also allows you to modify characters in many ways too, except they can be shown in their true form until they are printed out.

Reverse Video - Stylograph allows you to modify characters in a variety of ways. For example, each time you **boldface** a word, the screen will display it in reverse video. This enables you to identify any character mods very easily and quickly when scrolling through text.

Memory Space - When you are working with a word processor or spread sheet, available memory space in the computer becomes an important factor. With G051 we have tried diligently to open up as much memory space as possible. We have succeeded in some capacity and when Stylograph is being used there is approximately 15k of memory space available. Compared to many of the other Hi-resolution screen drivers on the market today, G051 certainly gives the user the most available memory space on the 64K Color Computer.

INSTALLING G051

To install G051 on your system all that needs to be done is to copy G051 from the disk shipped by G.P.C.C. into the execution directory on your system disk. To do this simply put your system disk in drive 0 and the G051 disk in drive 1 and type:

```
OS9: CHX /D0/CMDS  
OS9: COPY /D1/STY/G051 /D0/CMDS/G051
```


STYLOGRAPH AND G051

If you use the install program called makestylo, G051 is automatically copied over into the STY directory and can be called from there when you want to execute it.

One final option would be to put G051 into the STARTUP file. This would automatically execute the G051 screen driver when OS9 is booted. This proves to be very convenient if you desire to have a 51 x 24 screen display when you enter into OS9.

EXECUTING G051

To execute G051, put the system disk which has the G051 command already installed in drive 0 and enter the command as follows:

```
OS9: G051
```

The high resolution screen will appear and you will be able to run the OS/9 operating system as usual.

NOTE: G051 writes itself over the terminal device CCIO to save memory.

DISPLAY CODES FOR G051

- BELL - \$07
Ring the bell.
- BACKSPACE - \$08
Move the cursor back one space.
- LINE FEED - \$0A
Advance the cursor one line.
- HOME CURSOR - \$0B (HEX)
Homes the cursor.
- CLEAR SCREEN - \$0C (HEX)
Clears the screen and Homes
the cursor.
- CARRIAGE RETURN - \$0D
Move cursor to start of current
line.
- CURSOR ADDRESSING - \$1B,\$41 (HEX)
G051 will interpret the next two
values as column(X), and row(Y)
For example \$1b,\$41,\$06,\$08
positions the cursor at column
6 and row 8.
- CLEAR TO
END OF LINE - \$1B,\$42 (HEX)
Clears the line from cursor
position to end of line.
- ERASE ENTIRE LINE - \$0D,\$1B,\$42 (HEX)
Erases the entire line that the
cursor is on.

CURSOR RIGHT - \$1B,\$43 (HEX)
 Moves the cursor right one space.

CURSOR UP - \$1B,\$44 (HEX)
 Moves the cursor up one line.

CURSOR DOWN - \$1B,\$45 (HEX)
 Moves the cursor down one line.

SCROLL SCREEN UP - \$1B,\$41,\$00,\$17,\$0A (HEX)
 Scrolls the screen up one line.
 The bottom line is cleared.

SCROLL SCREEN DOWN - \$0B,\$1B,\$44 (HEX)
 Scrolls the screen down one
 line. The top line is cleared.

REVERSE VIDEO ON - \$1B,\$46 (HEX)
 Turns on Reverse Video.

REVERSE VIDEO OFF - \$1B,\$47 (HEX)
 Turns off Reverse Video.

UNDERLINE ON - \$1B,\$48 (HEX)
 Turns on Underlining.

UNDERLINE OFF - \$1B,\$49 (HEX)
 Turns off Underlining.

CLEAR TO
 END OF SCREEN - \$1B,\$50 (HEX)
 Clears the screen from the
 cursor position to the end
 of the screen. The cursor
 is not moved.

COLOR COMPUTER KEYBOARD

KEY	UNSHIFTED	SHIFTED	CONTROL	CAPS
@	\$40=@	60='	00=NUL	40
A	61=a	41=A	01=SOH	41
B	62=b	42=B	02=STX	42
C	63=c	43=C	03=ETC	43
D	64=d	44=D	04=EOT	44
E	65=e	45=E	05=ENQ	45
F	66=f	46=F	06=ACK	46
G	67=g	47=G	07=BEL	47
H	68=h	48=H	08=BS	48
I	69=i	49=I	09=HT	49
J	6A=j	4A=J	0A=LF	4A
K	6B=k	4B=K	0B=VT	4B
L	6C=l	4C=L	0C=FF	4C
M	6D=m	4D=M	0D=CR	4D
N	6E=n	4E=N	0E=SO	4E
O	6F=o	4F=O	0F=SI	4F
P	70=p	50=P	10=DLE	50
Q	71=q	51=Q	11=DCL	51
R	72=r	52=R	12=DC2	52
S	73=s	53=S	13=DC3	53
T	74=t	54=T	14=DC4	54
U	75=u	55=U	15=NAK	55
V	76=v	56=V	16=SYN	56
W	77=w	57=W	17=ETB	57
X	78=x	58=X	18=CAN	58
Y	79=y	59=Y	19=EM	59
Z	7A=z	5A=Z	1A=SUB	5A

KEY UNSHIFTED SHIFTED CONTROL

up arr	0C	1C	13
dn arr	0A	1A	12
lft arr	08	18	10
rt arr	09	19	11=rubout
BREAK	05	03	1B=escape
CLEAR	control	control	_____
0	30 = 0	30= 0	TOGGLE CAP 1F
1	31 = 1	21 = !	7C = ;
2	32 = 2	22 = "	00
3	33 = 3	23 = #	7E = ~
4	34 = 4	24 = \$	00
5	35 = 5	25 = %	00
6	36 = 6	26 = &	00
7	37 = 7	27 = '	5E = ^
8	38 = 8	28 = (5B = [
9	39 = 9	29 =)	5D =]
:	3A = :	2A = *	00
;	3B = ;	2B = +	00
,	2C = ,	3C = <	7B = }
-	2D = -	3D = =	5F = }
.	2E = .	3E = >	7D = }
/	2F = /	3F = ?	5C = }

COLOR COMPUTER SCREEN DRIVERS

This section is a supplement to the Styfix Configuration section of this manual and specifically deals with the Color Computer installation procedures in regard to the terminal screen drivers.

To call up the Styfix Configuration program walk through the following procedures:

1. Place OS9 system disk with Stylograph already installed in drive 0 (/D0).
2. Place the backup copy of the original Stylograph disk in drive 1 (/D1).
3. Enter - OS9: CHD /D0/STY
OS9: CHX /D1/CMDS
OS9: STYFIX /D0/CMDS/STYLO

The last command will display on the screen a menu of options that allow you to configure the parameters of your system.

CONFIGURE TERMINAL - #1

The Color Computer version of Stylograph differs quite extensively from the standard OS-9 version when it comes to configuring terminals.

All that you need to do in the Color Computer version is simply choose which Hi-resolution screen driver you will be using. Great Plains has already entered the correct screen codes for the different screen drivers.

After choosing option #1 from the Styfix menu the following screen will appear.

SET DEFAULT TERMINAL NUMBER

The numbers below correspond to their drivers

1. FHL O-PAK
2. WORD-PAK 80 column board
3. G051 Screen Driver (51 x 24)

The current default setting is 3

Enter the new default Terminal from above.

The current setting defaults to #3, G051 screen driver. If you need to choose a different one, just enter the appropriate number and press RETURN.

Option #2 of the Styfix menu which says "Configure System Map" does not apply to the Color Computer version of Stylograph and is therefore disabled.

INSTALLING SCREEN DRIVERS

PBJ WORD-PAK

Those people using the PBJ Word-Pak 80 column video board will find the following information useful when installing Stylograph to work with it.

One of the biggest benefits Word-Pak gives the OS9 user is the fact of more available internal memory. This becomes important when you start loading in large programs like Stylograph.

There are two ways in which you could set up Stylograph to run with the Word-Pak.

1. The easiest and quickest way is to simply boot up into 80 columns using the Word-Pak driver, remove the system disk and insert a configured version of the Stylograph disk. Stylo can then be called up as usual from the command line. The following points must be kept in mind.

- * Anytime you change disks the chx command must be executed. (i.e. chx /d0/cmds)
- * This disk is not bootable and must be inserted after booting up OS9 and Word-Pak.
- * No OS9 commands will be on this disk unless you copy them over to this disk.

2. This option is the one I recommend and is the most convenient in the long run. The end result will give you an installed version of Stylo on a bootable OS9 system disk.

The first thing to do is follow the instructions that come with your Word-Pak for installing the OS9 driver onto your system. I would suggest starting

with a fresh copy of your RS OS-9 System master disk to begin the process.

The installation of Word-Pak is straight forward and all that is required is for you to run their Install.2 file. This file copies over all the needed files and installs Word-Pak into memory.

The next step would be to insert the backup copy of the Stylograph disk into drive 1. The OS9 system disk which has Word-Pak on it should remain in drive 0. Once you are all set enter the following:

```
OS9: /d1/makestylo
```

This file will take over the system momentarily and copy over all the needed files onto the System disk.

When the makestylo file is finished the next item of business would be to run the Styfix configuration program. Styfix allows you to set the system defaults, in this case you would want Stylo to use the Word-Pak screen driver (T2).

Other suggested settings would be:

```
Set maximum pages to 20.  
Set data buffer size to 20000 bytes (20K).
```

To call up the Styfix program enter the following:

```
OS9: chd /d0/sty  
OS9: chx /d1/cmds  
OS9: styfix /d0/cmds/stylelo
```

This will bring up the Styfix menu. Refer to the manual section dealing with the Styfix Configuration program for further information.

FHL O-PAK

O-PAK is a 51 x 24 hi-resolution screen driver that works quite nicely with Stylograph. To use O-PAK, two files need to be moved over into the CMDS directory of your system disk (HIRES and STDCS).

To move these files over, do the following:

- i) Insert your original FHL O-PAK program in drive 1.
- ii) Insert OS9 system disk with Stylo already installed on it into drive 0.

Enter

```
OS9: Copy /D1/HiRes /DO/cmds/HiRes
```

```
OS9: Copy /D1/STDCS /DO/cmds/STDCS
```

Once you have these commands copied over to your system disk you are ready to go. To call up the 51 x 24 screen driver just enter "HIRES" and the screen will change instantly before your eyes. You can then call up Stylo as usual and begin entering text.