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Appendix A: Files in the Programs Subject

Appendix A gives a list of all the files, required and optional, under the Programs subject. This information indicates which files you need to perform particular functions.

Files Used During Start-Up

This section explains the automatic sequence of events during InteGRiD start-up and the files that make start-up possible.

When You Turn On Your Computer and Start InteGRiD

1. When you first turn on your computer, MS-DOS is automatically loaded into main memory (RAM) from a permanent storage device (Read Only Memory, floppy disk, or hard disk).
2. Press Return for the date and time prompts, and type **grid** or **gridram** at the MS-DOS command line; this action starts InteGRiD.
3. If you have the "Scrinit.Scr" file in Programs, your computer uses it to display the start-up logo on your screen. If you don't have Scrinit.Scr (you may wish to delete it), a start-up logo does not appear.
4. The InteGRiD operating environment (Grid.Exe, Gridram.Exe, or Gridpc.Exe) is automatically loaded into main memory (RAM).
5. InteGRiD reads the "User.Pro" file, if present. The User file performs preset functions during start-up such as identifying a start-up file and determining the current choices in the GRiDManager Options form (current modem, printer, screen font, etc.). The User file also determines which application is retrieved when you select a data file of a particular Kind under InteGRiD.
6. InteGRiD loads the "Common.Shr" file into RAM. Common is a required collection of program routines used by all of the GRiD applications.
7. After Common is loaded, the system executes any commands in the file "Sysinit.Cmd," if present. The program that actually executes the commands is called "Do".
8. InteGRiD loads the "GExec.Run" file into RAM. GExec displays the File form and provides interchange services when transferring from one file to another using the Transfer command. GExec also supplies all GRiD windowing functions.
9. Finally, GExec either displays the File form or makes available a start-up file or window configuration you saved in a previous session.

System Files

System files provide general functions needed by most applications. These files are summarized in Table A-1.

CAUTION: The following files are always needed, regardless of the application you use:

Common.Shr

Emulator.Shr (if you have no 8087 chip)

GExec.Run

Grid.Exe (or Gridram)

The following additional files are needed for external file server devices.

GManager.Run and GLink.Dev (when connected by a cable link)

GManager.Run, PhoneLnk.Dev, and GCase.Mdm (when connected by phone lines)

Although the other files shown in Table A-1 are optional, you should study the function of each carefully before erasing it. You might need the file for some auxiliary function important to you. For example, if you want to use an Epson Model FX80 printer, you must have the files Fx80Par.Prn and Parallel.Dev in Programs.

Table A-1. *System Files in the Programs Subject*

File Name	Function
630Par.Prn	Translates Diablo Model 630 printer commands between your computer's parallel port and the printer.
630Ser.Prn	Translates Diablo Model 630 printer commands between your computer's serial port and the printer.
2225Par.Prn	Translates HP ThinkJet 2225 printer commands between your computer's parallel port and the printer.
5152Par.Prn	Translates IBM Model 5152 printer commands between your computer's parallel port and the printer.
Common.Shr	Always required. Contains routines used by commands common to all the GRiD applications.

File Name	Function
Diconix.Prn	Translates Diconix portable printer commands between your computer's parallel port and the printer.
Emulator.Shr	Required for those computers that don't have the optional 8087 math processor chip.
Fx100Par.Prn	Translates Epson Model FX100 printer commands between your computer's parallel port and the printer.
Fx80Par.Prn	Translates Epson Model FX80 printer commands between your computer's parallel port and the printer.
GCase.Mdm	Provides an interface between InteGRiD and the GRiDCase internal modem, if available. The file is required when communicating over telephone lines with an external file server device; it is also required when using the GRiDTerm, GRiDVT100, and GRiD3101 terminal emulators.
GCase.Ser	Allows communication through the serial port on the back of the computer.
GCase19.Ser	Allows communication through the 19-pin serial port (RS-232C/RS-422) on the back of the TEMPEST GRiDCase computer.
Gen1Par.Prn	Provides interface services between your computer and printers (other than the Epson Models FX80, FX100, MX100, and MX82) connected through the parallel connector on the back of the computer. Doesn't translate printer commands between your computer and the printer.
Gen1Ser.Prn	Provides interface services between your computer and printers (other than the Diablo Model 630) connected through the serial connector on the back of the computer. Uses the ETX/ACK communication protocol. Doesn't translate printer commands between your computer and the printer.
Gen2Ser.Prn	Provides interface services between your computer and printers (other than the Diablo Model 630) connected through the serial connector on the back of the computer. Uses the XON/XOFF communication protocol. Doesn't translate printer commands between your computer and the printer.

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File Name	Function
GExec.Run	Always required. Displays the File form, provides the list of Kind choices, and provides interchange services when transferring from one file to another with the Transfer command. Also provides Window Manager functions.
GManager.Run	Allows connection to an external file server device. Provides file management and other functions described in the GRiDManager chapter.
Grid.Exe	This is the ROM version of the InteGRiD operating environment. Controls the operations of all GRiD applications under MS-DOS.
Gridram.Exe	This is the RAM version of the InteGRiD operating environment.
Hayes.Mdm	Provides an interface between InteGRiD and an external Hayes Smartmodem 1200®. The file is required when using an external Hayes Smartmodem 1200 compatible modem for phone line communications.
Hays2400.Mdm	Provides an interface between GRiD and an external Hayes Smartmodem 2400®. The file is required when using an external Hayes Smartmodem 2400 compatible modem for phone line communications.
Hpljcser.Prn	Translates Hewlett-Packard LaserJet printer commands between your computer's serial port and the printer containing a Courier font cartridge or no font cartridge.
Hpljser.Prn	Translates Hewlett-Packard LaserJet printer commands between your computer's serial port and the printer containing a Prestige Elite font cartridge.
Hpser.Plt	Translates Hewlett-Packard plotter commands between your computer's parallel port and the plotter.
Install.Run	Installs new file Kind information in your User.Pro file. You should run this program to update your User.Pro file when you add a file whose Kind isn't in Table B-2.
Mx100Par.Prn	Translates Epson Model MX100 printer commands between your computer's parallel port and the printer.
Mx82Par.Prn	Translates Epson Model MX82 printer commands between your computer's parallel port and the printer.

File Name	Function
Parallel.Dev	Allows communication through the parallel port on the back of the computer.
PhoneLnk.Dev	Contains line protocols that enable the computer to communicate with remote devices over a telephone line.
Rmtprntr.Mdl	A model printer driver file for using any remote printers (printers on a file server device). To make your current printer a remote printer, you must copy this file to another file named after the remote printer but with a Kind of Prn. See the Current Printer item in the GRiDManager Options form for details.
Scrinit.Scr	Displays the GRiD logo on the screen during InteGRiD start-up.
Scrprint.Scr	Prints screen images or saves them in a file.
Sound.Dev	Allows programs to use the internal speaker in your computer.
Syserrs.Txt	Contains text of error messages displayed by InteGRiD.
Tb12X16.Typ : : Txt9X15.Typ	Permit use of alternate typefaces selected on the Options form in GRiD applications. See Appendix F for examples of all the supplied typefaces.
User.Mdl	A model of the User.Pro file. In case the User.Pro file is erased or damaged, you can copy this file to create a new User.Pro file.
User.Pro	Performs preset functions during start-up. The information in the file lets InteGRiD select the start-up file, set the current typeface, and translate the Kinds you give for data files into specific applications. Additionally, saves window configuration information and user key definitions.

Appendix B: GRiD-OS File Conversion

This appendix explains how to convert GRiD-OS files to MS-DOS format for easier access under InteGRiD. In addition, translation tables are provided for translating all GRiD-OS Titles and Kinds to their InteGRiD equivalents.

This information is primarily intended for former GRiD-OS users, though new GRiD software users may also find it helpful.

This appendix is useful for the following reasons:

- Former users of GRiD software may have software and data files stored under the GRiD-OS file system. These files can be accessed using the GBridge utility or converted to MS-DOS format as explained below. The translation tables will help you determine which files are equivalent under InteGRiD.
- InteGRiD users may find other GRiD software documentation making reference to files with Titles and Kinds that are not used under InteGRiD. The translation tables will help you understand what to do under your InteGRiD system.

Converting GRiD-OS Files

The following procedure explains how to copy files stored under the GRiD-OS file system to equivalent files stored under the MS-DOS file system.

To Convert Your GRiD-OS Files

1. Start InteGRiD.
2. Run the GBridge utility. See the Utilities chapter for details on GBridge.
3. Run GRiDManager. See the GRiDManager chapter for details on how to use GRiDManager.
4. Using the GRiDManager Duplicate command, copy the files from your GRiD format floppy disk to an MS-DOS floppy disk or hard disk. You can use the wildcard to duplicate all files at once. GRiDManager removes any characters not allowed by MS-DOS from the Titles and then truncates any Titles longer than 8 characters. In addition, all Kinds are translated correctly to the three-letter InteGRiD Kinds.

   If you have only a single floppy disk system, GRiDManager prompts you when to insert the correct diskette.

   NOTE: If any of your GRiD format files have the same initial eight characters, the second or last file will be copied over the first file with the same name. You should copy similarly named files individually, giving them different names under InteGRiD.

NOTE: A GRiD executable file with a Kind of Run cannot be duplicated to an MS-DOS file with a Kind of Exe or Com; you must keep the Kind of Run.

Translation Tables

The following tables translate GRiD format Titles and Kinds to their InteGRiD equivalents. The first table (Table B-1) lists all GRiD software products that have InteGRiD equivalents. The second table (Table B-2) lists the InteGRiD equivalents for all GRiD format file Kinds.

Table B-1. *GRiD Software Product Translations*

GRiD-OS		InteGRiD		
Title	**Kind**	**Title**	**Kind**	**Data Kind***
@SystemErrors	Text	Syserrs	Txt	
CCOS	System	Grid	Exe	
		or Gridram	Exe	
Common	Shared	Common	Shr	
DataEntryForms	Library	DEForms	Lib	
Diablo630Parallel	Printer	630Par	Prn	
Diablo630SerialETX/ACK	Printer	630Ser	Prn	
DiconixParallel	Printer	Diconix	Prn	
Disable ROM Files	Run	Disabler	Run	
Do	Run Com	Do	Run	Cmd
Emulator	Shared	Emulator	Shr	
EpsonFX100Parallel	Printer	Fx100Par	Prn	
EpsonFX80Parallel	Printer	Fx80Par	Prn	
EpsonMX100Parallel	Printer	Mx100Par	Prn	
EpsonMX82Parallel	Printer	Mx82Par	Prn	
Executive	Run	GExec	Run	
GenericParallel	Printer	Gen1Par	Prn	
GenericSerialETX/ACK	Printer	Gen1Ser	Prn	
GenericSerialXON/XOFF	Printer	Gen2Ser	Prn	
Graphs	Shared	Graphs	Shr	
GRiDCase19Pin	Serial	GCase19	Ser	
GRiD3101	Run 3101	G3101	Run	T31
GRiDAccess	Run	GAccess	Run	
GRiDCase	Serial	Gcase	Ser	
GRiDCaseHayesInternal	Modem	Gcase	Mdm	
GRiDFile	Run Database	GFile	Run	Dbs
GRiDFileRepair	Run	GFilerep	Run	
GRiDLab	Run Specification	GLab	Run	Spc
GRiDLink	Device	Glink	Dev	
GRiDMail	Run	GMail	Run	
GRiDMail	Text	GMail	Txt	

GRiD-OS		InteGRiD		
Title	**Kind**	**Title**	**Kind**	**Data Kind***
GRiDManager	Run Sign-on	GManager	Run	Sgn
GRiDMaster	Run Organizer	GMaster	Run	Org
GRiDMaster	Alarm	Gmaster	Ala	
GRiDMaster	GRiDCase Icons	Gmaster	Icn	
GRiDPaint	Run Canvas	GPaint	Run	Cnv/Scr
GRiDPlan II	Run Worksheet	GPlan2	Run	Wks
GRiDPlot	Run Graph	GPlot	Run	Grf
GRiDReformat	Run Reformat	GReform	Run	Rfm
GRiDShare	Run	GShare	Run	
GRiDTask	Run Task	GTask	Run	Tsk
GRiDTask II	Run Task II	GTask2	Run	Tk2
GRiDTaskBuilder	Run	GTaskbld	Run	
GRiDTerm	Run Terminal	GTerm	Run	Tml
GRiDVT100	Run VT100	GVt100	Run	Tvt
GRiDWrite	Run Text	GWrite	Run	Txt
HPLaserJetCourierSerial	Printer	Hpljcser	Prn	
HPLaserJet Serial	Printer	Hpljser	Prn	
HayesExternal	Modem	Hayes	Mdm	
HP2225Parallel	Printer	2225Par	Prn	
Hayes 2400 External	Modem	Hays2400	Mdm	
HPSerial	Plotter	Hpser	Plt	
IBM5152Parallel	Printer	5152Par	Prn	
Parallel	Device	Parallel	Dev	
PhoneLink	Device	PhoneInk	Dev	
Sample	Com	Sample	Cmd	
SAMPLE	LIBRARY	Sample	Lib	
SampleBuilderInvocation	Text	Sample	Txt	
Screen.init	ScreenImage	Scrinit	Scr	
ScreenWatch	Run	Scrprint	Run	
Sound	Device	Sound	Dev	
System.Init	Com	Sysinit	Cmd	
TypeBlock12x16	Font	Tb12X16	Typ	
TypeBlock24x32	Font	Tb24X32	Typ	
TypeBlock9x12	Font	Tb9X12	Typ	
TypeColonial10x12	Font	Tc10X12	Typ	
TypeColonial8x8	Font	Tc8X8	Typ	
TypeColonial9x15	Font	Tc9X15	Typ	
TypeExpand12x8	Font	Tx12X8	Typ	
TypeGRiD4x8	Font	Tg4X8	Typ	
TypeGRiD5x8	Font	Tg5X8	Typ	

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GRiD-OS		InteGRiD		
Title	**Kind**	**Title**	**Kind**	**Data Kind***
TypeGRiD6x7	Font	Tg6X7	Typ	
TypeGRiD6x8	Font	Tg6X8	Typ	
TypeGRiD8x14	Font	Tg8X14	Typ	
TypeGRiDBold6x7	Font	Tgb6X7	Typ	
TypeModern15x20	Font	Tm15X20	Typ	
TypePC4x7	Font	Tpc4X7	Typ	
TypePC5x7	Font	Tpc5X7	Typ	
TypePC6x7	Font	Tpc6X7	Typ	
TypePCBasic8x8	Font	Tpc8X8	Typ	
TypeTextbook12x19	Font	Txt12X19	Typ	
TypeTextbook9x15	Font	Txt9X15	Typ	
TypeVT1004x8	Font	Tvt4X8	Typ	
TypeVT1005x8	Font	Tvt5X8	Typ	
Type VT1006x8	Font	Tvt6X8	Typ	
User	Profile	User	Pro	
UserSentry	Run	UserSent	Run	

*This column refers to the Kind of data files that are used with the application. In other words, when a data file with the indicated Kind is selected, the corresponding application is also retrieved.

Table B-2. *GRiD Kind Translations*

GRiD Kind	InteGRiD Kind	Application
3101	T31	GRiD3101
Alarm	Ala	(used by GRiDMaster)
Alarms	Buz	(used by GRiDMaster)
Canvas	Cnv	GRiDPaint
Com	Cmd	Do
Develop	Dvl	GRiDDevelop
Device	Dev	Activate
Database	Dbs	GRiDFile
Database Index	I??	(used by GRiDFile)
Font	Typ	(used by all applications)
Graph	Grf	GRiDPlot
GRiDCase Icons	Icn	(used by GRiDMaster)
LabDevice	Ldv	(GRiDLab device driver)
Library	Lib	GRiDTask II library
Log	Log	(used by GRiDLab)
Modem	Mdm	(used by modems)
Patterns	Ptn	(used by GRiDPlan II)
Plotter	Plt	(used for plotters drivers)

GRiD Kind	InteGRiD Kind	Application
Printer	Prn	(used for printer drivers)
Profile	Pro	(used by InteGRiD)
Organizer	Org	GRiDMaster
Reformat	Rfm	GRiDReformat
Run	Run	(executable program)
ScreenImage	Scr	GRiDPaint
Serial	Ser	(used for serial communications)
Shared	Shr	(used by InteGRiD)
Sign-on	Sgn	GRiDManager
Specification	Spc	GRiDLab
Task	Tsk	GRiDTask
Task II	Tk2	GRiDTask II
Terminal	Tml	GRiDTerm
Text	Txt	GRiDWrite
Vt100	Tvt	GRiDVT100
Worksheet	Wks	GRiDPlan II

Appendix C: Pathname Syntax

In some GRiD applications (such as ScreenWatch and GRiDWrite), you may need to specify files by giving a pathname. Appendix C explains how to specify a GRiD pathname.

The format of a pathname is as follows:

`Device`Subject`Title~Kind~

Device is where the file resides. You must specify the full device name, or you can use the device letter as an abbreviation.

For example, for the device Hard Disk C you can specify "c;" for the device Floppy Disk A you can specify "a".

If you have any GRiD-OS devices attached and activated with the GBridge utility, you can also specify their full device names. There are no abbreviations allowed for GRiD-OS devices.

Subject, Title, and *Kind* are identifications you assigned to the file when you created it.

NOTE: If a Subject, Title, or Device name contains a blank, the name must be enclosed in single quotes (`) as shown in the examples below. Enclose the parts of the pathname within back quotes and tildes, as shown in the examples below.

`c`Audit`Report~Txt~

`a`Memos`85Sales~Scr~

```'grid-os floppy disk'`'Sales reports'`January~Txt~
```

Appendix D: ASCII Characters

Most computers support the ASCII (American Standard Code for Information Interchange) character set listed in Table D-1. The column headings in the table are described below.

Dec — The decimal code for the character.

Hex — The hexadecimal (base 16) code for the character.

Grph — The graphical representation of the character on the computer screen. Some of these graphic characters are not supported by printers.

Abbr — The ASCII abbreviation for the character's name.

Name — The name of the character.

Press — The keys that you press to produce the character, if not obvious from the labeling of the keyboard.

Table D-1. *ASCII Table*

Dec	Hex	Grph	Abbr	Name	Press
00	00		NUL	null	Ctrl-Shift-2
01	01		SOH	start of heading	Ctrl-A
02	02		STX	start of text	Ctrl-B
03	03		ETX	end of text	Ctrl-C
04	04		EOT	end of transmission	Ctrl-D
05	05		ENQ	enquiry	Ctrl-E
06	06		ACK	acknowledge	Ctrl-F
07	07		BEL	bell	Ctrl-G
08	08		BS	backspace	Ctrl-H
09	09		HT	horizontal tab	Ctrl-I, Tab
10	0A		LF	linefeed	Ctrl-J
11	0B		VT	vertical tab	Ctrl-K
12	0C		FF	form feed	Ctrl-L
13	0D		CR	carriage return	Ctrl-M
14	0E		SO	Shift out	Ctrl-N
15	0F		SI	Shift in	Ctrl-O
16	10		DLE	data link escape	Ctrl-P
17	11		DC1	device control 1	Ctrl-Q
18	12		DC2	device control 2	Ctrl-R
19	13		DC3	device control 3	Ctrl-S
20	14		DC4	device control 4	Ctrl-T
21	15		NAK	negative ack	Ctrl-U
22	16		SYN	synchronous idle	Ctrl-V
23	17		ETB	end trans. block	Ctrl-W

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Dec	Hex	Grph	Abbr	Name	Press
24	18		CAN	cancel	Ctrl-X
25	19		EM	end medium	Ctrl-Y
26	1A		SUB	substitute	Ctrl-Z
27	1B		ESC	escape	Esc or Ctrl-;
28	1C		FS	file separator	Ctrl-Shift-,
29	1D		GS	group separator	Ctrl- =
30	1E		RS	record separator	Ctrl-Shift-.
31	1F		US	unit separator	Ctrl-Shift-hyphen
32	20		SP	space	
33	21	!		exclamation	
34	22	"		quotation marks	
35	23	#		number sign	
36	24	$		dollar sign	
37	25	%		percent sign	
38	26	&		ampersand	
39	27	'		apostrophe	
40	28	(		opening parenthesis	
41	29	)		closing parenthesis	
42	2A	*		asterisk	
43	2B	+		plus	
44	2C	,		comma	
45	2D	-		hyphen	
46	2E	.		period	
47	2F	/		slash	
48	30	0			
49	31	1			
50	32	2			
51	33	3			
52	34	4			
53	35	5			
54	36	6			
55	37	7			
56	38	8			
57	39	9			
58	3A	:		colon	
59	3B	;		semicolon	
60	3C	<		less than	
61	3D	=		equal to	
62	3E	>		greater than	
63	3F	?			
64	40	@		commercial at sign	
65	41	A			
66	42	B			
67	43	C			

Dec	Hex	Grph	Abbr	Name	Press
68	44	D			
69	45	E			
70	46	F			
71	47	G			
72	48	H			
73	49	I			
74	4A	J			
75	4B	K			
76	4C	L			
77	4D	M			
78	4E	N			
79	4F	O			
80	50	P			
81	51	Q			
82	52	R			
83	53	S			
84	54	T			
85	55	U			
86	56	V			
87	57	W			
88	58	X			
89	59	Y			
90	5A	Z			
91	5B	[		opening bracket	Fn-[
92	5C	\		backslash	
93	5D	]		closing bracket	Fn-]
94	5E	^		circumflex	
95	5F	_		underline	
96	60	`		back quote	Fn-`
97	61	a			
98	62	b			
99	63	c			
100	64	d			
101	65	e			
102	66	f			
103	67	g			
104	68	h			
105	69	i			
106	6A	j			
107	6B	k			
108	6C	l			
109	6D	m			
110	6E	n			
111	6F	o			

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Dec	Hex	Grph	Abbr	Name	Press
112	70	p			
113	71	q			
114	72	r			
115	73	s			
116	74	t			
117	75	u			
118	76	v			
119	77	w			
120	78	x			
121	79	y			
122	7A	z			
123	7B	{		left curly bracket	Fn-Shift-{
124	7C	|		vertical line	
125	7D	}		right curly bracket	Fn-Shift-}
126	7E	~		tilde	Fn-Shift-~
127	7F		DEL	delete	

Appendix E: Troubleshooting

This appendix describes general problems that might arise as you use GRiD software under InteGRiD and provides tips on how to resolve them. To use the troubleshooting table (Table E-1), look for your problem under the heading Symptoms, identify the Cause, and follow the suggested Remedy.

Table E-1. *Troubleshooting*

Symptom	Cause	Remedy
Receive message "Bad command or file name" when you type GRID to start InteGRiD.	Can't find GRID.EXE	Ensure that the file GRID.EXE exists on the current device and directory, or change to the device or directory where this file exists.
No start-up logo is displayed when you start InteGRiD.	Can't find Scrinit.Scr	Ensure that the file Scrinit.Scr exists in the Programs subject of an attached device.
Incorrect date or time on screen.	Time-of-day clock set incorrectly	Set correctly using GRiDManager Set Time command.
Recieve message "Problem starting InteGRiD due to insufficient memory" at start-up.	Not enough RAM available to start InteGRiD.	Ensure that InteGRiD is not already running or that you haven't created a large RAMDRIVE from MS-DOS.
Changes to system defaults not saved in User file	User.Pro file in ROM used at start-up	Copy User.Pro file from ROM to non-ROM start-up device, then restart system. System will read User file from non-ROM device.
User-set system configuration items not implemented at start-up.	User.Pro file not found	Ensure that the User.Pro file exists in the Programs subject of an attached device.

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Symptom	Cause	Remedy
Printer driver not found at InteGRiD startup	Printer driver stored on device added by GBridge	Copy printer driver to an MS-DOS device, giving it an 8 character name with a Kind of Prn.
Bad printout of screen	Tried to Print Screen under InteGRiD	Run MS-DOS GRAPHICS command before starting InteGRiD.
Numeric keypad doesn't work under MS-DOS	NUMPAD driver loaded after InteGRiD started	Invoke NUMPAD driver before starting InteGRiD.
Out of memory errors in MS-DOS	SERVER command used after InteGRiD started	If you want to use the SERVER command, use it before starting InteGRiD.
Nonexistent drive in Usage report	Drive switches set wrong	External drive switches must be set so drives are named consecutively; don't set one as B: and another as D: if there's no drive C.
Printer doesn't print correctly or at all	Wrong printer driver specified	Set correct printer driver for your printer in GRiDManager Options form.
Strange word wrapping in GRiDWrite	Unwanted spaces before or after words	Turn the format characters on (Options form) and erase any extra spaces around the word(s) that are wrapping strangely.
Errors or system problems when using GRiDLink on the TEMPEST GRiDCase	Wrong version of GLink	Use GLink version 86.9.3 or later.

Appendix F: Typeface Examples

This appendix shows examples of all the typefaces supplied on the InteGRiD diskette. The typefaces are shown below in the order of their sizes.

Tpc4X7 This is Tpc4X7 abcdefghijklmnopqrstuvwxyz0123456789

Tpc5X7 This is Tpc5X7 abcdefghijklmnopqrstuvwxyz0123456789

Tpc6X7 This is Tpc6X7 abcdefghijklmnopqrstuvwxyz01234

Tg6X7 This is Tg6X7 abcdefghijklmnopqrstuvwxyz012345

Tgb6X7 **This is Tgb6X7 abcdefghijklmnopoqrstuvwxyz0123**

Tg4X8 This is Tg4X8 abcdefghijklmnopqrstuvwxyz0123456789

Tvt4X8 This is Tvt4X8 abcdefghijklmnopqrstuvwxyz0123456789

Tg5X8 This is Tg5X8 abcdefghijklmnopqrstuvwxyz0123456789

Tvt5X8 This is Tvt5X8 abcdefghijklmnopqrstuvwxyz0123456789

Tg6X8 This is Tg6X8 abcdefghijklmnoopqrstuvwxzy01234

Tvt6X8 This is Tvt6X8 abcdefghijklmnopqrstuvwxyz01234

Tc8X8 **This is Tc8X8 abcdefghijklmnopqrst**

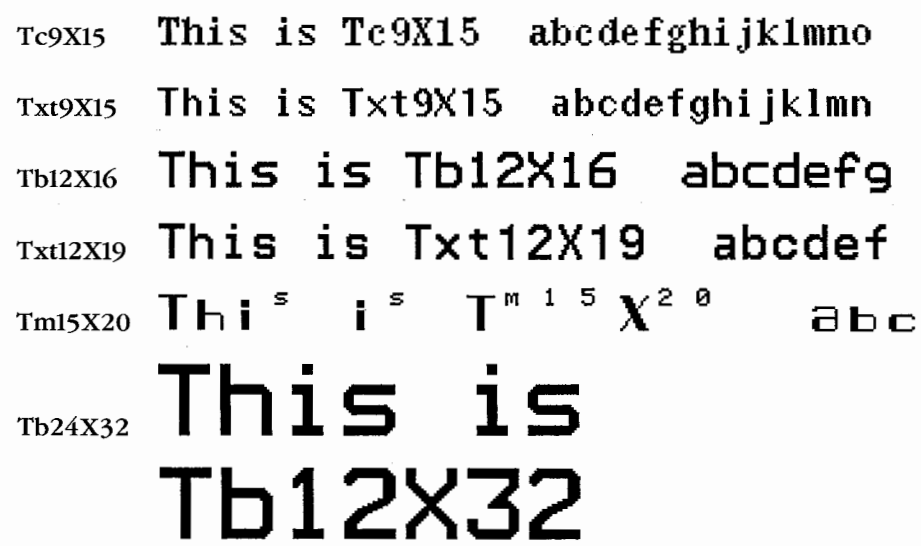
Tpc8X8 This is Tpc8X8 abcdefghijklmnopqrst

Tx12X8 This is Tx12X8 abcdefg

Tc10X12 **This is Tc10X12 abcdefghijk**

Tb9X12 **This is Tb9X12 abcdefghijklmno**

Tg8X14 This Tg8X14 abcdefghijklmnopqrstuv

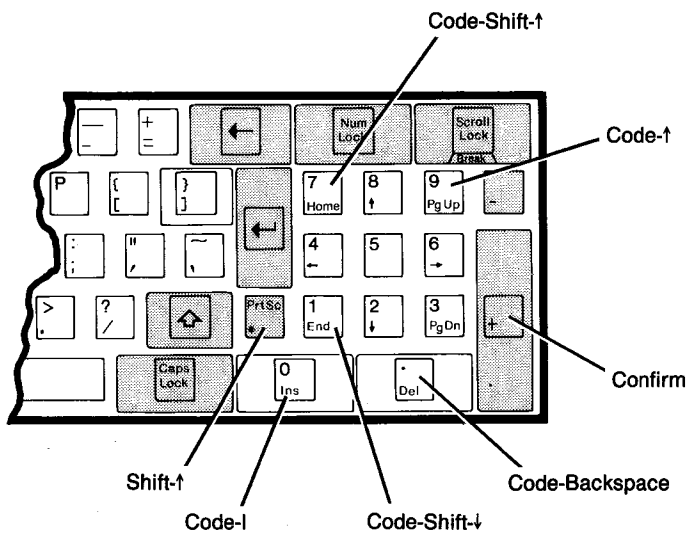

Tc9X15
This is Tc9X15 abcdefghijklmno
Txt9X15
This is Txt9X15 abcdefghijklmn
Tb12X16
This is Tb12X16 abcdefg
Txt12X19
This is Txt12X19 abcdef
Tm15X20
Thi s i s T m 1 5 X 2 0 abc
Tb24X32
This is
Tb12X32

Appendix G: IBM PC Keyboard

If you have an IBM PC or compatible with a PC-style keyboard, you can substitute certain keys in the numeric keypad area for special InteGRiD keystrokes. This makes InteGRiD even easier to use on a PC or compatible because in all cases, a multi-key keystroke is replaced with a single key. Figure G-1 shows which PC keys have alternate uses.

Note that the key substitutions do not apply if Numeric Lock is on.

Figure G-1. *IBM PC Key Substitutions*



Additionally, on the PC AT keyboard, there is a Sys Req key that is equivalent to confirm.

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