
ST^E ADDENDUM

Atari ST^E computers have all the features of the Atari ST, plus operating system and hardware enhancements that result in a more powerful and versatile system. This addendum is an update to the ST Computer Owner's Manual.

SYSTEM ENHANCEMENTS

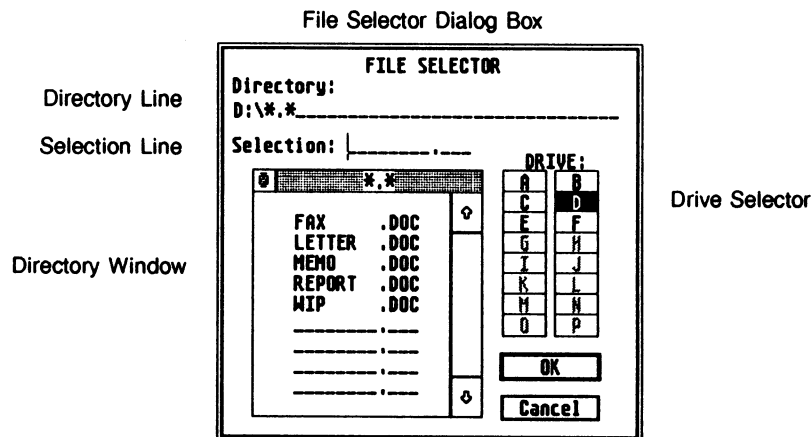
This section includes general TOS upgrade information, and operating system and software changes specific to ST^E computers.

TOS Upgrade Information

The new TOS provides many improvements to your computer's GEM Desktop operating environment. These changes increase the computer's operating speed and make your computer easier to use.

File Selector (formerly Item Selector)

Two important changes affect this dialog box. One is the addition of the Drive Selector. The other is improved use of wildcard characters.



The Drive Selector displays drive identifier letters A through P. Click on a letter to select that drive. Drive identifiers representing uninstalled drives appear in a light typeface and cannot be selected.

Use of wildcard characters allows you to more easily control the Directory window display. Use wildcard characters to replace portions of the last section of a pathname on the Directory Line.

For example, if D:\SALES*.DOC appears on the Directory Line, only files with the .DOC extension will display in the Directory window. To display the entire contents of the subdirectory SALES delete .DOC and replace it with the asterisk wildcard character. Refer to your computer owner's manual for further instructions on using wildcard characters.

To display the new directory, press [Return].

Move Files

With the new TOS you can move a file from one folder or drive to another in addition to copying the file.

First, select the file(s) you wish to move. Then hold down [Control] as you click on and drag the selected file(s) to a new location. During the move process, a Move File(s) dialog box displays the number of files being moved. As each file is moved, the Move File(s) dialog box displays the file's name and complete destination (disk or logical drive letter and folder name).

When you copy or move files, the new TOS does not change the date and time stamp of those files. File date and time information will only be updated when the file is changed.

Skip a Single File During Group Copying

The option to skip a single file during a group copy procedure becomes available when a file name conflict occurs. A file name conflict occurs when a file is copied from one location to another and a copy of the file already exists at the new location. The following three options are presented when a name conflict occurs:

- **Copy** TOS overwrites the existing file and the copy operation continues.
- **Skip** TOS does not overwrite the file. Continues with the copy operation.
- **Quit** Does not overwrite the file. Ends the copy operation.

Abort Group Copy, Move, and Delete Operations

You can abort the copy, move, and delete operations performed by the new TOS. Press and hold down [Undo]. A dialog box displays, giving you the choice of continuing or ending the operation.

MS-DOS Compatible Floppy Disk Formatting

Disks formatted with the new TOS are fully MS-DOS compatible.

Auto-Boot Applications

The Install Application option of the Options menu allows you to assign an autoboot feature to any GEM based application program. An installed application automatically opens when you boot the system. You can select applications with .PRG, .APP or .TOS extensions.

Follow these instructions to start an application from a data file or autoboot an application.

1. Select a program file (.TOS, .APP, .TTP, .PRG) from a directory window.

Select Install Application from the Options menu. The Install Application dialog box appears, listing the application program file you selected from the desktop.

2. To install the application to run from a data file, type the correct data file extension in the Document Type field. This is the common extension of the files that use that application. (Consult the manual supplied with the application for the most common file extension.) If you install an application to autoboot, you may leave the Document Type field blank.



Note: Some applications can open from a desktop data file only if the data file resides in the same folder as the application program files. Check the documentation supplied with the application for more information.

3. Select boot status: Auto to autoboot an application, or Normal to start an application from the desktop.
4. Select an application type. Your choices are GEM, TOS, and TOS-takes-parameters.

Most programs that run from the desktop have the extension .PRG or .APP. Both of these extensions indicate a GEM application. However, some applications have the extension .TOS or .TTP. The extension .TOS indicates a TOS application. The extension .TTP indicates a TOS-takes-parameters application.



Note: To use a .TTP application, first select the application, then enter the required parameters when the dialog box appears.

5. Select OK to finish.
6. To save the application's installation, select Save Desktop from the Options menu.

Disk Copy/Format Dialog Box

The new TOS uses a combined dialog box for copy and format operations. This box displays when you select either the Format option from the File menu, or drag a disk drive icon on top of another disk drive icon.

Select Copy or Format from the Copy and Format dialog box. Select from the available options and click on OK. The bar graphs in the lower half of the screen graphically detail the copying or formatting that occurs.

Changing a Folder's Name

With the new TOS you can change the name of a folder. Click on a folder and select the Show Info option from the File menu. The Folder Information dialog box displays. You can now type in a new name for that folder.

ST^E Specific System and Software Enhancements

In addition to the improvements to the GEM desktop, the ST^E operating system has several capabilities unique to ST^E computers. Software enhancements for the ST^E include a modified version of the Control Panel desk accessory on the accompanying startup disk. The modifications provide access to the enhanced color capability of ST^E computers.

Increased Color Palette

The ST^E computers offer an increased color selection of 4,096 colors.

Control Panel Desk Accessory

The Control Panel desk accessory contains an enhanced color palette selector. The primary color sliders have 16 positions, 0 through 15.

RCA Audio/Stereo Ports

The STE computers have right and left RCA audio/stereo ports located on the rear panel. The shielded connector consists of:

Core—RCA audio
Shield—Ground

Controller Ports

The STE computers have two 15-pin connector ports located on the left side panel to the right of the cartridge port. Use 15-pin connectors with 9-pin adapters to allow four-player games (or six-player games, with joysticks connected to the two 9-pin joystick ports), enhanced joysticks, paddles, or light guns.

CONTROLLER PINOUT SPECIFICATIONS

Port A	Port B
1 — UP 0	1 — UP 1
2 — DOWN 0	2 — DOWN 1
3 — LT 0	3 — LT 1
4 — RT 0	4 — RT 1
5 — PAD0Y	5 — PAD1Y
6 — FIRE 0	6 — FIRE 1
7 — VCC (+5V DC)	7 — VCC
8 — Not Connected	8 — Not Connected
9 — Ground	9 — Ground
10 — FIRE 2	10 — FIRE 3
11 — UP 2	11 — UP 3
12 — DOWN 2	12 — DOWN 3
13 — LT 2	13 — LT 3
14 — RT 2	14 — RT 3
15 — PAD0X	15 — PAD1X

MONITOR PORT PINOUT SPECIFICATIONS

- 1 — Audio Out
- 2 — Composite Video
- 3 — Clock Select
- 4 — Monochrome Detect/Clock Input
- 5 — Audio In
- 6 — Green
- 7 — Red
- 8 — Plus 12-Volt Pullup
- 9 — Horizontal Sync
- 10 — Blue
- 11 — Monochrome
- 12 — Vertical Sync
- 13 — Ground



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