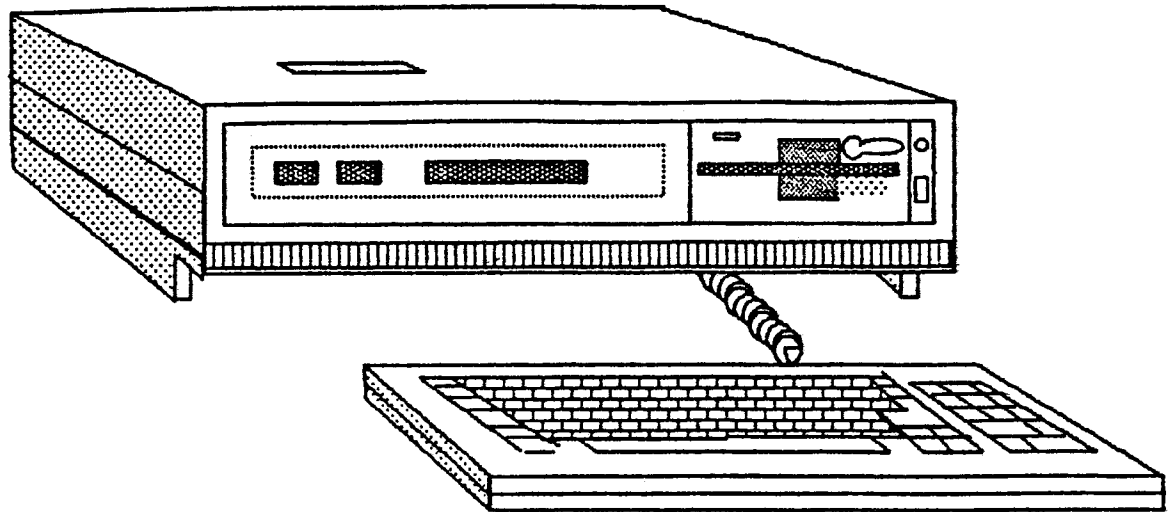


# The Amiga Personal Computer



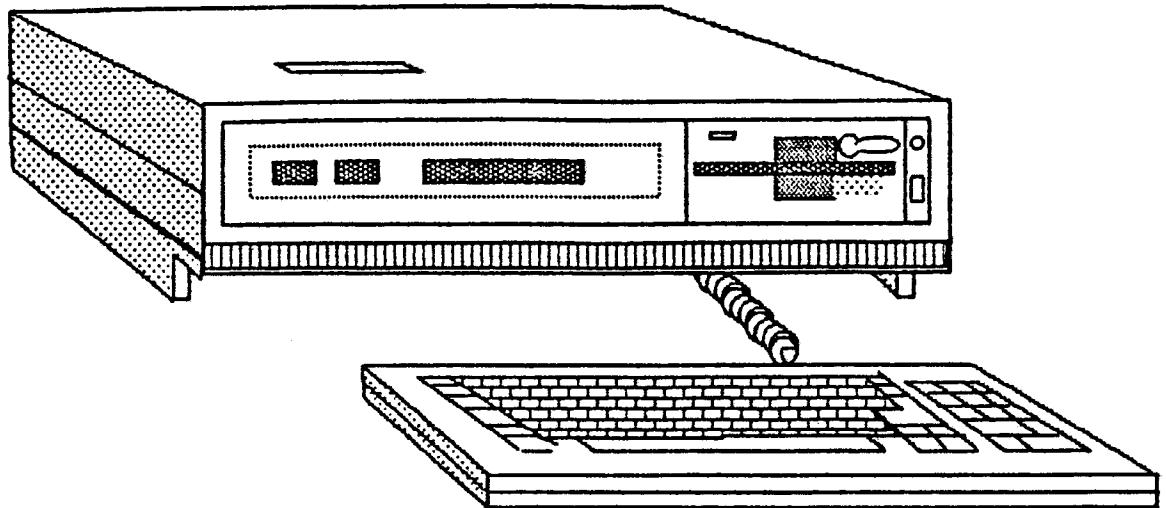
## Detached Keyboard - 86 Full Stroke Keys

- Suitable For "Touch Typing"
- 10 Key Numeric Keypad
- 10 Function Keys
- Help Key

## Storage "Garage" Feature

- Allows keyboard to be stored out of the way when not in use - less cluttered work space in the office

# The Amiga Personal Computer



## Built-In Disk Drive

- 5 1/4" Standard Floppy
- 320 K-bytes Capacity
- Double-Sided/Double-Density

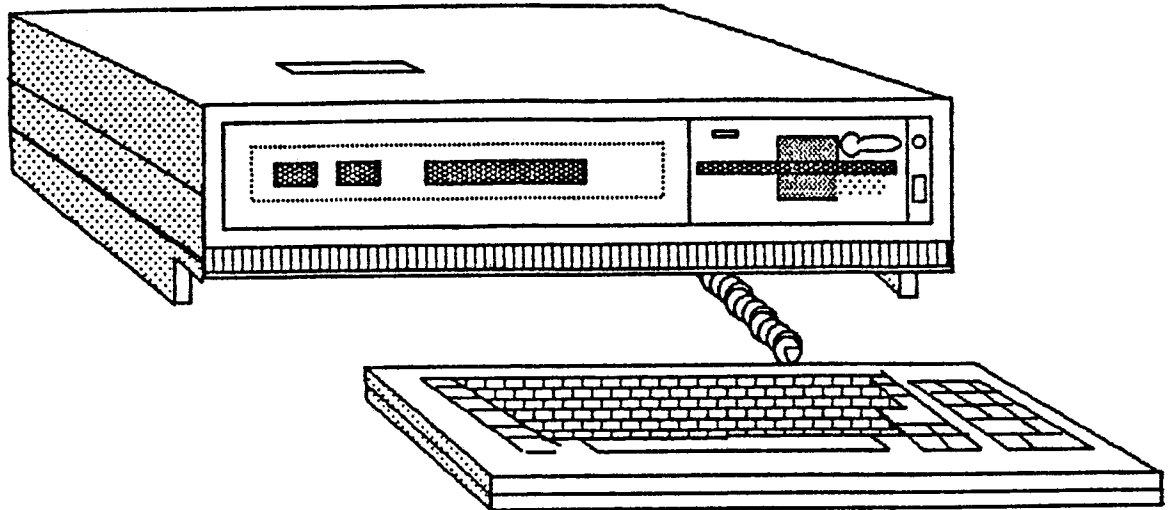
## Mouse Controller Included

- Extremely "User-Friendly" method of giving commands to the computer
- Connects through Controller Port

## Telephone Modem Included

- 300 Baud Modem
- Upgradeable to 1200 Baud
- Standard Telephone Jack Connector

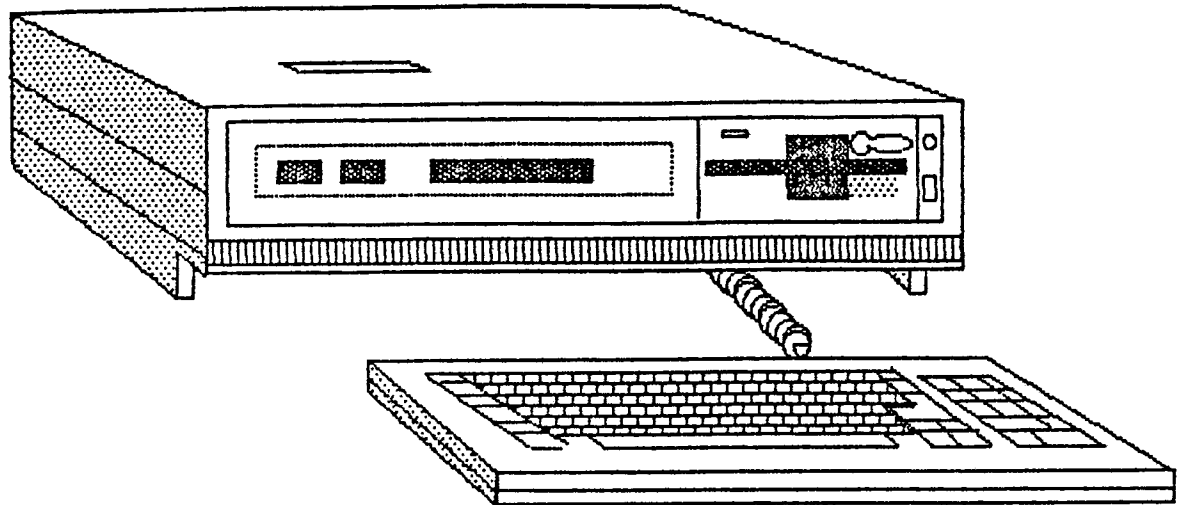
# The Amiga Personal Computer



## Built-In Slots - Jacks and Ports

- RGB Port - Will Accept Color Monitors
- Serial Port - RS232
- Centronics<sup>[tn]</sup> Compatible Printer Port
- Reconfigurable Controller Ports
  - ⊗ will accept all types of joysticks/controllers
- Two Audio Output Jacks
  - ⊗ for two channel stereo sound
- Cartridge Slot
  - ⊗ read/write capability
  - ⊗ PC-DOS and/or MS-DOS capability
- Expansion bus
  - ⊗ Expandable up to 4 megabytes

# The Amiga Personal Computer



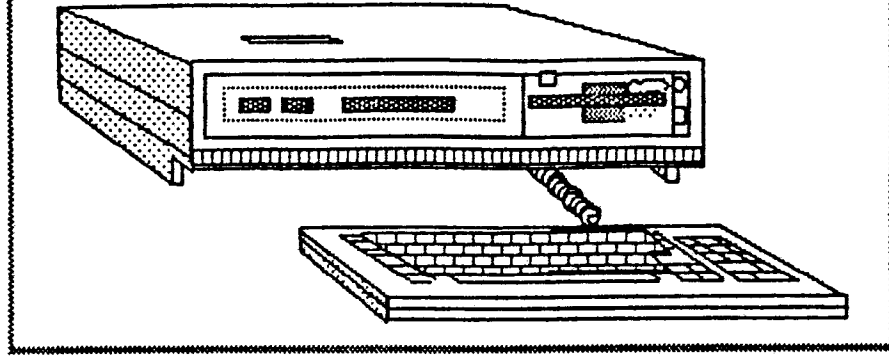
## Internal Features

- 68000 Microprocessor
  - 7.5 Mhz
  - 16-bit Data Bus
  - 32-bit Internal Bus
- Random Access Memory
  - 128k Bytes Internal RAM, Expandable Onboard to 512k
  - Maximum Of 4.5 Megabytes In System By Using Expansion Bus
- 64K Bytes Internal ROM

## Operating System

- Amiga's Mouse Operated, Window-Based Operating System Built-In
- PC-DOS and/or MS-DOS Cart. Available
- P-System and CP/M-68K Disk Available

# The Amiga Personal Computer



## The Heart of the Machine

### Three Custom Designed VLSI Chips

#### ● Custom Animation Chip

- Bit Blitter - High Speed Animation
- Display Synchronized Coprocessor
- Manages movement of memory
- Controls 26 DMA (Direct Memory Access) Channels

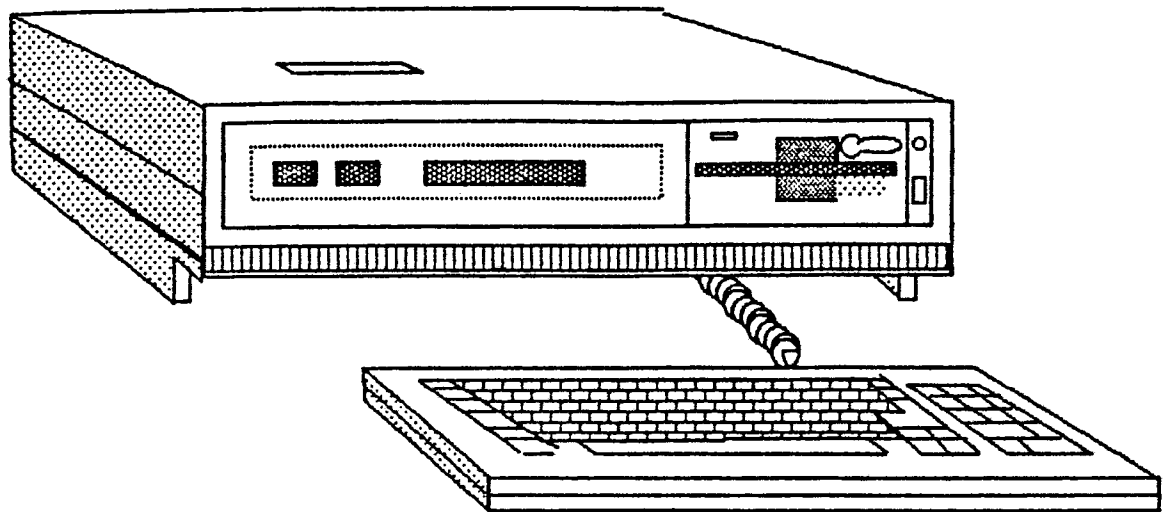
#### ● Custom Graphics Chip

- 640 x 400 Resolution
- 3616 Colors on a standard TV
- Eight Re-Usable Sprite Controllers
- 80 Column Colored Text  
on monitor w/o extra cost card
- 40 Column Text on TV Set

#### ● Custom Sound/Peripherals Chip

- Four Voices of Sound Output  
as two stereo channels
- Nine Octaves
- Complex Waveforms
- Amplitude and/or Frequency Modulated ADSR
- I/O Controls
  - A. Disk Drives
  - B. Controller Ports
  - C. Printers

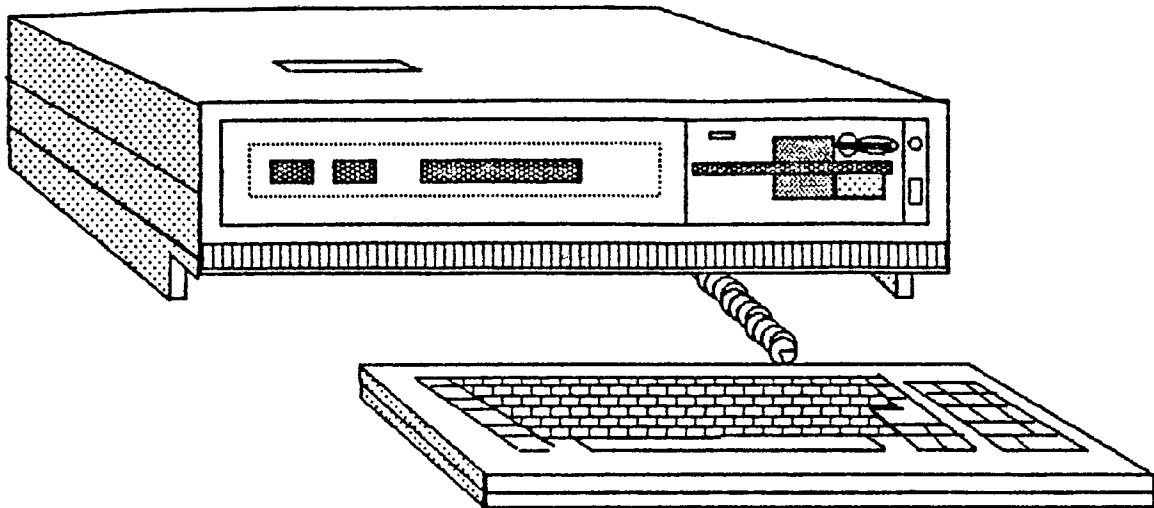
# The Amiga Personal Computer



## Add-On Peripherals/Accessories

- **Additional 5 1/4" Floppy Disk Drives**
- **Hard Disk Drives**
  - 5 Megabyte
  - 10 Megabyte
- **Color Monitors**
- **Printers**
  - Letter-Quality
  - Dot-Matrix
  - Color Ink-Jet
- **Memory Expansion**
  - Up to 512K internal
  - Up to 4 Megabytes external
- **Laser Disk Interface**

# The Amiga Personal Computer



## Amiga Bundled Software

### Window Managed System

- **Word Processor**

- Mouse operated
  - Highly user-friendly

- **Applesoft[tm] Compatible Basic**

- Source Compatible
  - Read/Write Apple Disks

- **Graphics Paint Set**

- Mouse operated ability to
  - create full color graphics

- **Calculator Pad**

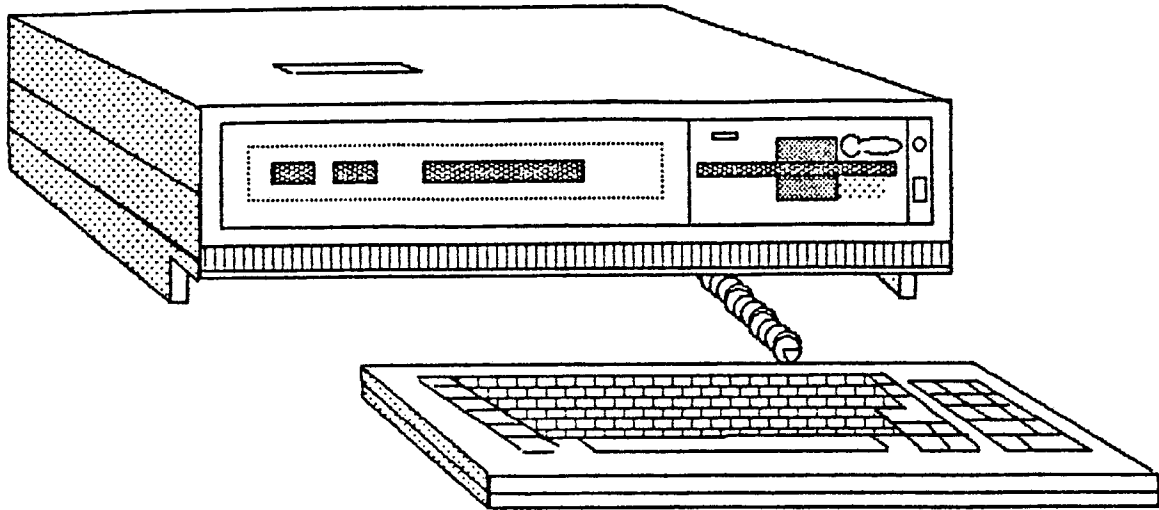
- **Speech Synthesis**

- Available to user or programmer

- **Music Synthesis**

- Available to user or programmer

# The Amiga Personal Computer



## Amiga Software Policy

### ● Fully Open System

- Specifications available to all qualified software producers

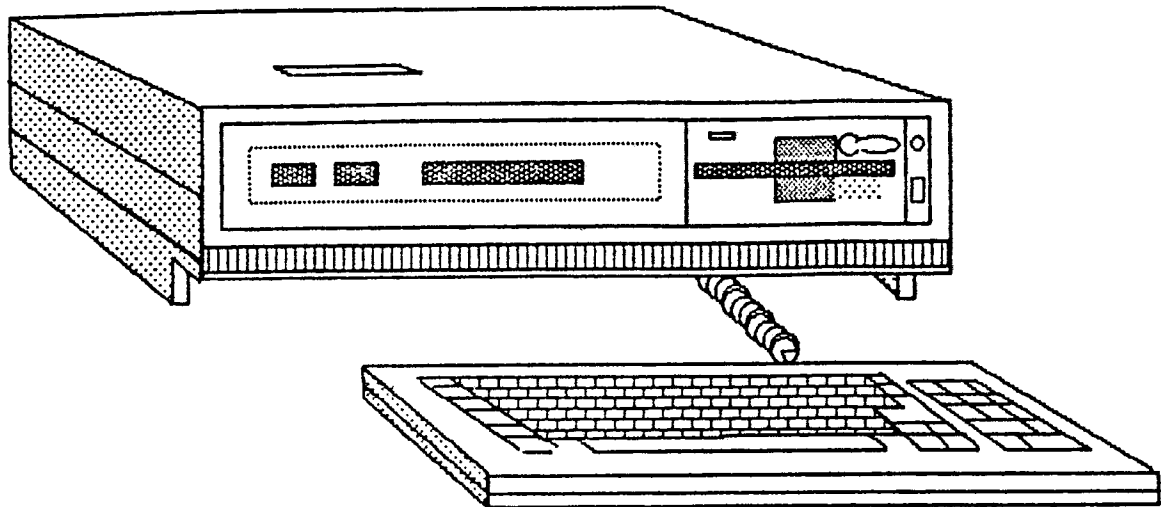
### ● Development Systems Available July, 1984

- 512K RAM
- 10 Megabyte Hard Disk
- UNIX OS
- C Compiler

### ● Amiga will support "dual-logo" distribution of key products



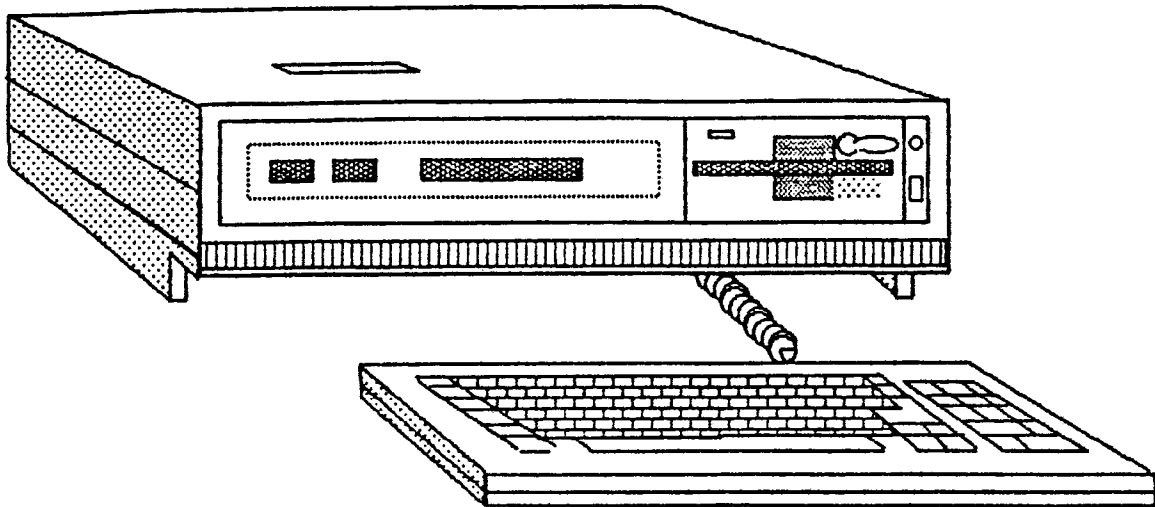
# The Amiga Personal Computer



## Amiga Business/Productivity Software

- Approach: Work with Major suppliers of software to offer versions optimized for the Amiga System
- Key Suppliers Targeted
  - Lotus
  - Software Publishing (PFS)
  - Microsoft
  - Micropro
  - Visicorp
  - Ashton-Tate
  - Dow-Jones
  - Time, Inc.
- Goal: To have all of the top 20 IBM PC packages available on the Amiga System

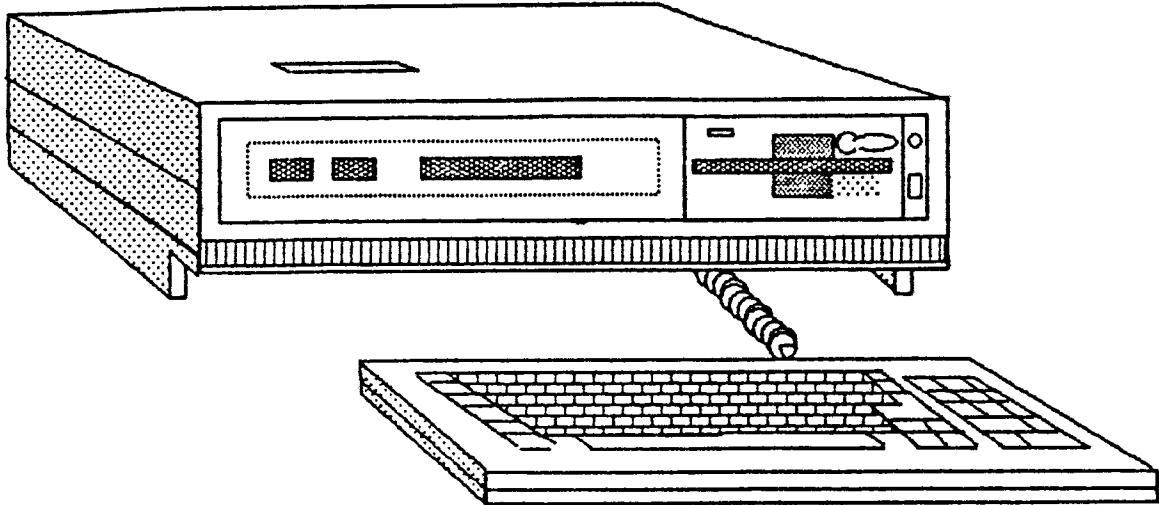
# The Amiga Personal Computer



## Amiga Educational Software

- Approach: Encourage key educational software suppliers to develop packages based on unique capabilities of Amiga hardware
  
- Key Suppliers Targeted
  - The Learning Company
  - Scholastic
  - Electronic Arts
  - Hesware
  
- Goal: To have at least ten educational packages available on introduction

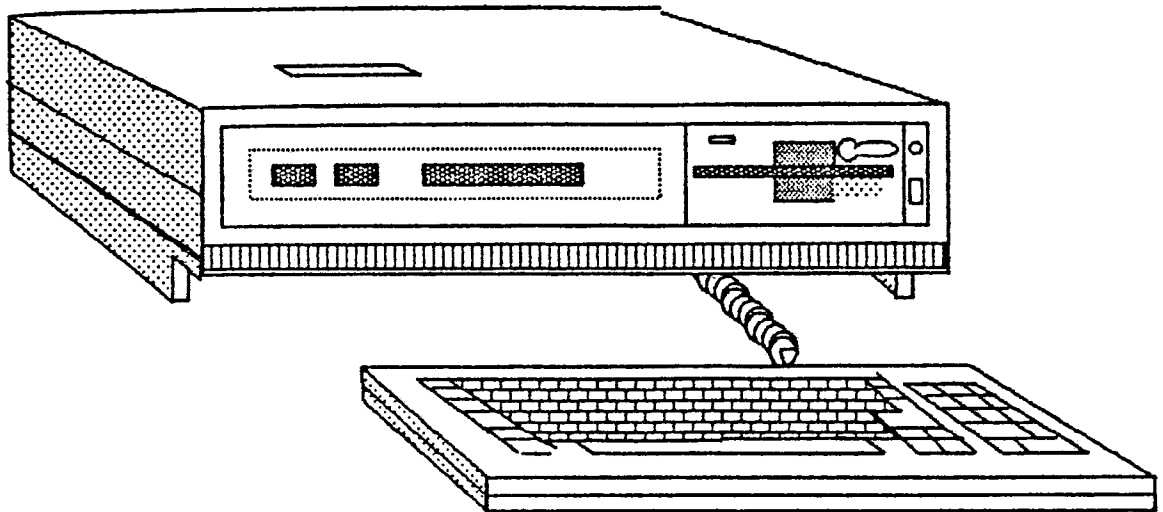
# The Amiga Personal Computer



## Amiga Entertainment Software

- Approach: Encourage key games suppliers to develop packages based on the unique capabilities of the Amiga hardware
- Key Suppliers Targeted
  - Activision
  - Atari
  - Broderbund
  - Electronic Arts
  - Microlab
  - Synapse
- Amiga will also offer six games initially which dramatically show off capabilities of the system.  
One of these will be created by Bruce Artwick, Author of "Microsoft Flight Simulator".

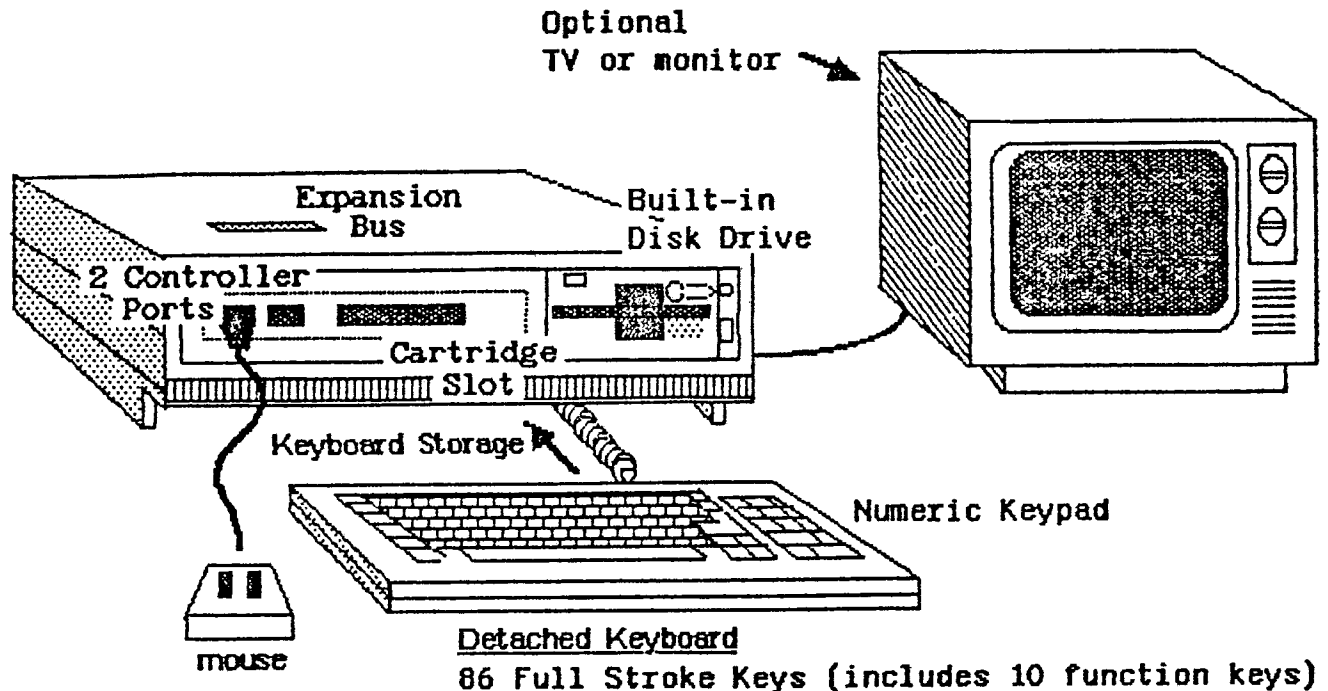
# The Amiga Personal Computer



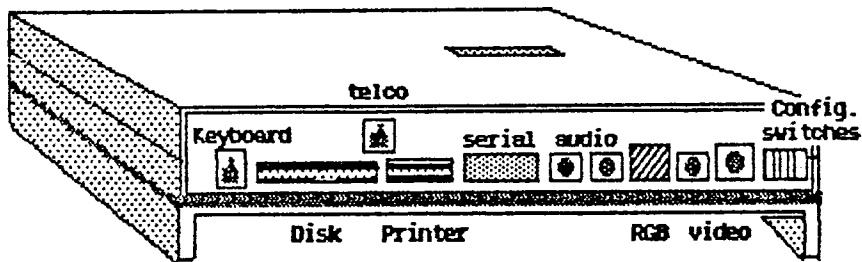
## Features Summary

- Motorola 68000 - 32-bit Main Processor
- 128K bytes of RAM
- 64K bytes of ROM
- Detached Keyboard w/Garage Feature
- Built-in 5 1/4" Floppy Disk Drive
- RGB Port for Color Monitor
- "Mouse" Controller Included
- 300 Baud Modem Included
- Serial Port - RS232
- Reconfigurable Joystick Ports
- Centronics[tm] Compatible Parallel Printer Port
- Two Audio Jacks
- Laser Disk Interface
- Expansion Bus - Expandable to 4 Megabytes of RAM
- Read/Write Cartridge Slot (PC-DOS, MS-DOS Compatibility)
- Custom Animation Chip
- Custom Graphics VLSI Chip
- Custom Sound/Peripherals Chip
- Bundled Software
- Five Computer Languages Available
- Display Synchronized Coprocessor
- Peripherals Easily Attached

# The Amiga Personal Computer



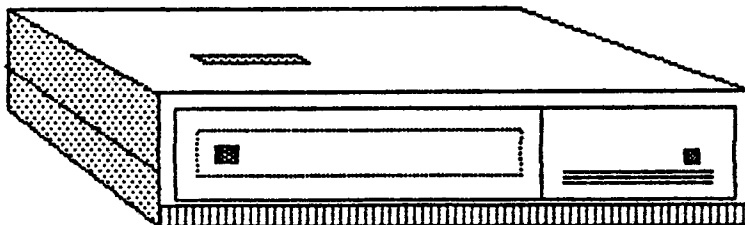
## Connections For:



- Centronics[tm] Compatible Printer
- Two Stereo Audio Jacks
- Serial Port (RS232)
- Laser-Disk Interface
- Modem Port
- Keyboard Port
- Television & RGB interface

## Rear View

## Optional Peripherals/Accessories



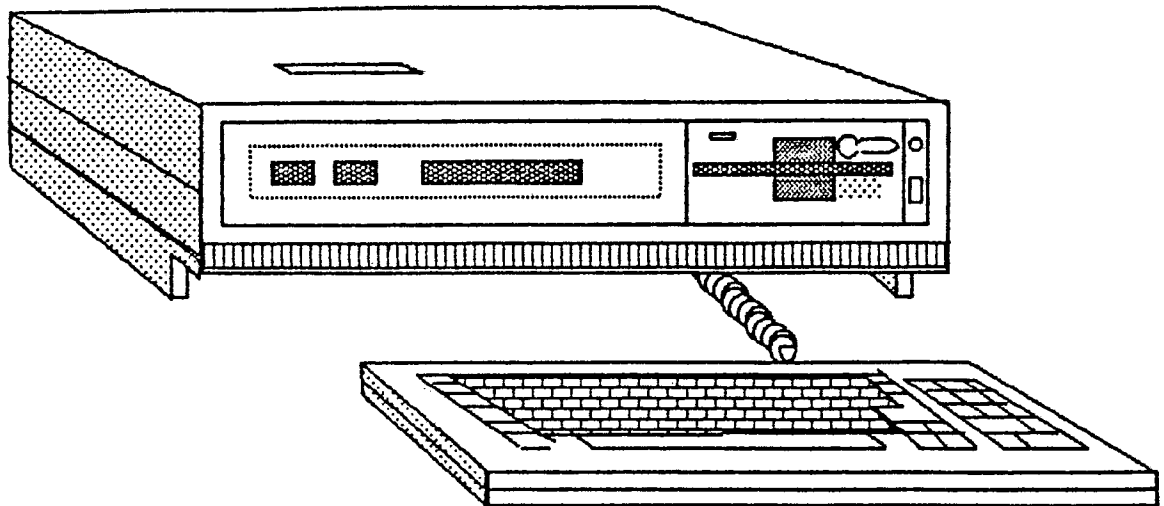
Expansion Box with:

- Up to 512K bytes Memory
- Add-On Floppy or Hard Disk
- Other Expansion Boards



MS-DOS Compatibility Cartridge

# The Amiga Personal Computer



## Amiga Manufacturing

### ● Basic Approach

- Source key components from proven vendors
- Amiga will handle its own quality control

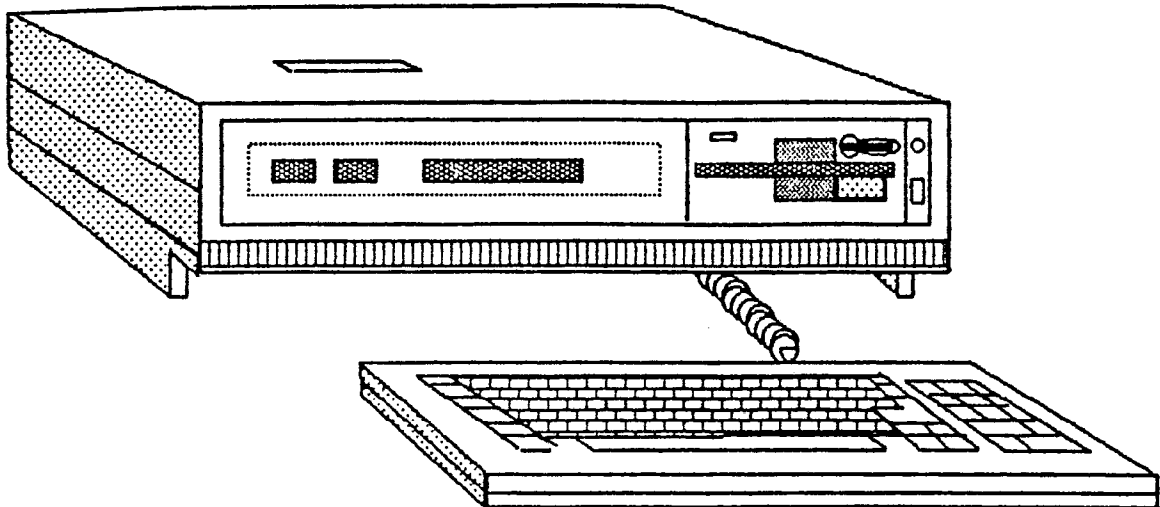
### ● Expected Sources For Major Components

- Microprocessor - Rockwell/Motorola
- Custom VLSI - AMI/Toshiba
- Disk Drives - Tandon/Shugart
- Board Stuffing - PH Components
- Assembly - Solelectron

### ● Special purchasing program to identify and deal with limited supply components.

### ● Multiple sourcing wherever possible

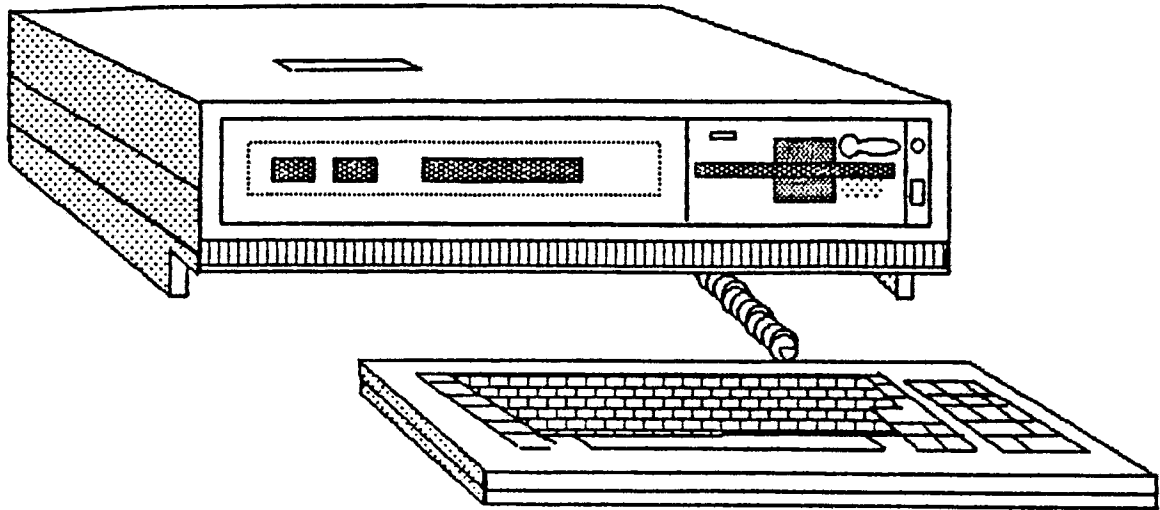
# **The Amiga Personal Computer**



## **Amiga Quality Control**

- **Designed-In maximum integration of circuitry results in simple printed-circuit board design (37 integrated circuits)**
- **Top Quality Components Specified**
- **100% Inspection of Incoming Components**
- **Test/Burn-In of Final Assembly**

# **The Amiga Personal Computer**



## **Amiga Manuals/Documentation**

- **Critical factor in establishing a reputation as a user-friendly computer**
- **Multiple Level Documentation**
  - **User (Built into software, simple manuals)**
  - **Dealer**
  - **Programmer**
  - **Service Technician**
- **Documentation includes:**
  - **Clear Illustrations**
  - **Specific Examples**
- **Experienced Manager - Robert Peck**



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