

5362 DESCRIPTION

The 5362 is a general purpose Customer Setup (CSU) System Unit designed to meet the users needs in batch processing, communication, multi-work station, word processing, and distributed data base system environments. The 5362 is designed to be easy to install and easy to use. The customer is aided by documentation and verification programs in installing the system unit, logic card features and program products. There are programming aids to assist the customer in converting their programs to the 5362. Problem Determination (PD) has been enhanced to include disk, diskette, communications and work stations. The help function has also been expanded.

There are four models of the 5362 System Unit. All models support common I/O devices, contain a base of 128 KB of main storage which is expandable to 512 KB and utilize a 51 TD diskette drive. The difference between models is the disk storage size. The models A01, A02, A03 and A04 have 30 MB, 60MB, 90 MB and 120 MB respectively. The 5362 System Unit can support up to 22 local work stations and up to 64 remote work stations.

Model upgrades will be done by a CE. Features are custom-er installable. The features include work station expansion, communications (SLCA or MLCA), and increases in main storage.

The 5362 System Unit belongs to the System/36 family and is an easy to use growth system for our current 51XX, System/23, System/32 and low end System/34 users as well as for new users.

The 5362 uses the same programs and System Support Program (SSP) as the 5360. Standard programming languages supported include Basic, RPG II, COBOL, FORTRAN IV and ASSEMBLER. Utility programs are available that support work station, data file creation and maintenance, 3270 emulation and other functions. Languages and utilities are Licensed Program Products (LPPs) available from the IBM Program Information Department (PID).



Photo is of a design model

Supported I/O's

- 5219 Printer (Models D1/D2) *
- 5224 Printer (Models 1/2)
- 5225 Printer (Models 1 - 4)
- 5256 Printer (Models 1 - 3)
- 3180 Display (Model 2)
- 5251 Display (Models 11/12)
- 5291 Display (Model 1)
- 5292 Display (Models 1/2)
- 5150/5160 Personal Computer attached via work station port
- 5294 Remote Work Station Controller

* Can not be a System Printer

Hardware Descriptions

- 5362 System Unit
 - Processing Unit
 - Control Storage
 - Main Storage
 - Disk Storage
 - Diskette Storage
 - Work Station Controller
 - Communications Controller
 - System Control Panel

Processing Unit

The processing unit contains the Control Storage Processor (CSP) and the Main Storage Processor (MSP).

Control Storage

All models have 128 KB of control storage. The card utilizes single bit Error Correction Code (ECC) and multiple bit error detection.

Main Storage

The card contains 128 KB of storage and utilizes ECC and multiple bit error detection. The maximum configuration contains 512 KB of storage.

Disk Storage

There are two versions of the 21ED disk drive used by the 5362 System Unit. They are the 30 MB drive, version A2 and the 60 MB drive, version A3. The type and number of drives determine the system model.

Diskette Storage

Diskette storage is provided by a 51TD diskette drive. The diskette drive provides three functions: Save/Restore, Diskette I/O and loading of customer data/programs or CE diagnostics.

Work Station Controller

The 5362 uses one of two work station controllers, depending on the number of work stations supported. An inboard controller which operates in control storage for controlling up to 6 local work stations or an outboard 64 KW controller card for controlling up to 22 local work stations.

Communications Controller

Communications support for the 5362 is provided by a Single Line Communications Adapter (SLCA) or a Multi-line Communications Adapter (MLCA). The SLCA is a limited function, single line attachment, while the MLCA is a higher function, multi-line attachment. The SLCA is controlled directly from the 5362 control storage processor. The MLCA has its own 64 KW processor with the capability of simultaneously controlling up to four communications lines.

System Control Panel

The control panel contains controls and indicators required for system operation/PD as well as functions that serve as diagnostic aids for identifying/locating hardware and software problems. The control panel uses a typematic keypad for input, LED displays for readout and a security keylock as a standard feature.

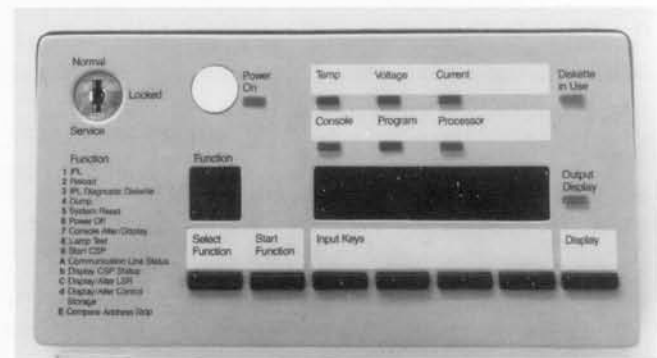


Photo is of a design model

System Console

The system console for the 5362 System Unit will be a 5251 Model 11 or equivalent work station display attached to port 0 and located within 20 feet of the 5362. The CE interface to the machine during problem diagnosis and repair is the system console and/or system control panel. The system operator and CSR share the use of the system console during PD, concurrent diagnosis and verification activity. In the event of system console malfunction, the 5362 System Unit supports alternate console capability.

MAINTENANCE

System maintenance begins with the customer performing Problem Determination (PD) using the message manuals, help function, operator manuals, PD Guide and online PD. The Problem Determination procedures will direct the customer to call the correct service organization (OEM, PTT, IBM hardware, software or SE).

MAINTENANCE FEATURES

At power on time, a set of ROS diagnostics are run from the control panel that check out the basic parts of the system before the system is IPLed. When the system is IPLed, additional ROS diagnostics and diagnostics loaded from either disk or diskette are run against the system to ensure the operational integrity of the system.

If an error is detected, a System Reference Code (SRC) is generated. The SRC is used by the CE for Field Replaceable Unit (FRU) identification before going onsite.

SRCs are also generated if an error occurs during normal customer operation.

ENHANCED OR NEW CE SERVICE AIDS

- Power On Diagnostics
- ROS Diagnostics run at IPL time
- Enhanced SRC Effectiveness
- No Probing
- Auto configuration of work stations and features

PROGRAMMING FEATURES / SERVICE AIDS

- Enhanced Online Problem Determination procedures
- Menu driven access to system for operator ease of use
- Multiple index data file support
- Simplified configuration
- Extensive communications facilities
- Multiple dump files
- Multiple concurrent trace files
- Comprehensive PTF application procedure
- APAR procedure automatically captures common information required for problem reporting
- Service log to record service related information
- Software service aids can be run remotely using a remote work station display
- Enhanced help screens

PROGRAM SUPPORT DOCUMENTATION

- System Data Areas
- Program Service Information
- Program Problem Diagnosis and Diagnostic Aids
- Control Storage Service Information

IBM MAINTENANCE SERVICE

IBM maintenance agreement enables IBM CE/CS to provide optimal service and system availability with limited customer involvement.

- CE/CS fully assumes responsibility to keep this machine in good working order.
- Error log control helps to prevent work disruption.

The IBM maintenance agreement is an IBM managed service. It is available at planable cost and protects the asset value.

IBM CE/CS will assist in the marketing of IBM maintenance agreement.

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