

IBM 8525, PERSONAL SYSTEM/2 (TM) MODEL 25**Contents**

[Announcement Letter Number 187-148 dated August 4, 1987](#)

[US - Last Revised on August 4, 1987](#)

Brief Description of Announcement, Charges, and Availability

The IBM Personal System/2 Model 25 (IBM 8525) is a low-priced, general-purpose computer system that accepts most current adapters and offers approximately two times the processor performance of current 8088 based IBM Personal Computers. The Model 25 uses the Intel 8086 processor and operates at 8MHz with no wait states to system memory.

This system utilizes a single element system unit and display design that allows for maximum utilization of desk space and provides high-quality graphics consistent with the IBM Personal System/2 family of analog displays.

The IBM 8525 Models 001 and 004 include the IBM Space Saving Keyboard designed for high productivity and with the same touch quality as other Personal System/2 keyboards. The 8525 Models G01 and G04 include the IBM Personal System/2 Enhanced Keyboard with numeric keypad.

The IBM 8525 is available in both monochrome (8525-001 and 8525-G01) and color (8525-004 and 8525-G04) versions. All models come with one 3.5-inch (720KB) diskette drive, 512KB of Random Access Memory (RAM), keyboard and a 12-inch analog display. Two features are announced to upgrade the function of all models. A second 3.5-inch (720KB) diskette drive and an additional 128KB RAM of memory are available.

Purchase Price:	8525-001	\$1,350
	8525-G01	1,395
	8525-004	1,695
	8525-G04	1,740

Planned Availability Date:

8525 Models 001 and 004: August 4, 1987

8525 Models G01 and G04: October 30, 1987

DESCRIPTION	MACHINE	MODEL	FEATURE
Personal System/2			
Model 25			
(Monochrome) with			
Space Saving			
Keyboard	8525	001	
Personal System/2			
Model 25			
(Monochrome)			
with Enhanced			
Keyboard	8525	G01	
Personal System/2			
Model 25 (Color)			
with Space Saving			
Keyboard	8525	004	
Personal System/2			
Model 25 (Color)			
with Enhanced			
Keyboard	8525	G04	
3.5-inch (720KB)			
Diskette Drive			4106
128KB Memory			
Expansion Kit			4105

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Customer Letter Section

HIGHLIGHTS

- o Enhanced price performance
- o Approximately two times the processor speed of 8088 based IBM Personal Computers
- o Graphics adapter displays up to 256 colors out of 262,144 colors or displays 64 shades of gray (Multi Color Graphics Array)

- o Graphics adapter, diskette drive adapter, serial and parallel ports included
- o New design, smaller size with reduced power requirements
- o 12-inch color or monochrome graphics analog displays
- o Advanced technology eliminating customer setup switches
- o One-year warranty

DESCRIPTION

The IBM Personal System/2 Model 25 uses advanced technology to provide existing IBM Personal Computer functions at an attractive price. Two card slots provide increased compatibility by allowing the attachment of many existing personal computer feature cards. A 12-inch analog display (color or monochrome), display adapter, RS-232-C serial adapter, parallel adapter and diskette adapter are standard, increasing base function while reducing price. This general-purpose system is based on an 8086 microprocessor, running at 8MHz, with no wait states to system memory, which results in an internal processing speed approximately twice that of 8088 based IBM Personal Computers.

STANDARD FEATURES

All models include the following:

- o 512KB random access memory (RAM) expandable to 640KB on the system board
- o Diskette adapter supporting up to two 3.5-inch 720KB drives
- o 12-inch analog display (color or monochrome)
- o Multi Color Graphics Array (MCGA (R)) with 64KB display buffer
- o Serial port
- o Parallel port
- o Pointing device port
- o Keyboard port
- o IBM Space Saving Keyboard or IBM Personal System/2 Enhanced Keyboard
- o Audio earphone connector
- o Socket for a Math Co-Processor
- o One full-size and one 8-inch general-purpose slot to accommodate IBM 5150 Personal Computer, Personal Computer XT (TM), and some non-IBM personal computer option cards that do not exceed 0.8-inch thickness.

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Multi Color Graphics Array (MCGA), the graphics adapter function that has been integrated into the planar, supports all existing Color Graphics Adapter (CGA) modes. In addition to providing existing CGA mode support, four new expanded modes are included in MCGA (640 x 350 line mode not supported):

- o 640 by 480 by 2 colors out of 262,144 colors -- all points addressable
- o 320 by 200 by 256 colors out of 262,144 colors -- all points addressable
- o 40 by 25 by 16 colors out of 262,144 colors -- text (8 x 16 character box)
- o 80 by 25 by 16 colors out of 262,144 colors -- text (8 x 16 character box).

The integrated MCGA will automatically use up to 64 shades of gray in converting color modes of operations for display on the IBM 8525-001 and 8525-G01 (monochrome model). This allows users who prefer a monochrome display to execute color graphics applications.

MODELS

- o 8525-001 -- Single element central processing unit with 12-inch monochrome analog display, 512KB RAM, one 3.5-inch 720KB diskette drive, IBM Space Saving Keyboard
- o 8525-G01 -- Single element central processing unit with 12-inch monochrome analog display, 512KB RAM, one 3.5-inch 720KB diskette drive, IBM Enhanced Keyboard
- o 8525-004 -- Single element central processing unit with 12-inch color analog display, 512KB RAM, one 3.5-inch 720KB diskette drive, IBM Space Saving Keyboard.
- o 8525-G04 -- Single element central processing unit with 12-inch color analog display, 512KB RAM, one 3.5-inch 720KB diskette drive, IBM Enhanced Keyboard.

FEATURES -- IBM 8525

The following new features are announced to expand the base function of the IBM 8525:

IBM PERSONAL SYSTEM/2 MODEL 25 3.5-INCH 720KB DISKETTE DRIVE (#4106)

(78X8956): This feature allows the user to install a second 3.5-inch 720KB diskette drive in the Personal System/2 Model 25 (8525-001, G01, 004, and G04).

IBM PERSONAL SYSTEM/2 MODEL 25 SYSTEM BOARD 128KB MEMORY EXPANSION KIT (#4105) (78X8955): This feature allows the user to install an additional 128KB of RAM on the system board that increases system memory from 512KB to 640KB.

ACCESSORY

IBM PERSONAL SYSTEM/2 MODEL 25 CARRYING CASE (#4103) (78X8954): This accessory has been designed to simplify the relocation of the IBM 8525. The case accommodates diskettes, manuals, line cords, and keyboard in addition to the 8525 System Unit.

The physical characteristics are:

- o Dimensions: 360mm wide x 400mm high x 410mm deep (14.4 in. x 16 in. x 16.4 in.)
- o Weight: 3.8 lbs.
- o Color: Gray
- o Fabric: 420 denier nylon oxford, normal density, acrylic coated.

I/O DEVICES SUPPORTED

- o Peripherals
 - 3117 Scanner
 - 3118 Scanner
 - 3363-A01 3363 Optical Disk Reader
 - 3363-B01 3363 Optical Disk Reader
 - 3852-002 Color Inkjet Printer
 - 4201-001 Proprinter (TM) -- EMC (PRHS)
 - 4201-002 Proprinter
 - 4202 Proprinter XL
 - 4207 Proprinter X24
 - 4208 Proprinter XL24
 - 4869-001 IBM Personal System/2 5.25-inch External Diskette Drive
 - 5152 Graphics Printer
 - 5173-001 PC Network Baseband Extender
 - 5178-001 PC Network Translator Unit
 - 5182 Color Printer
 - 5201-001 IBM Quietwriter (R)

- 5201-002 IBM Quietwriter
- 5202 IBM Quietwriter III
- 5216 Wheelprinter (parallel interface)
- 5223 Wheelprinter E
- 5841 IBM PC 1200 Baud Modem
(external)
- 5842 IBM PC 2400 Baud Modem
(external)
- 6180 IBM 6180 Color Plotter
- 6184 IBM 6184 Color Plotter
- 6186 IBM 6186 Color Plotter
- 7372 IBM 7372 Color Plotter
- 8228-001 IBM Token-Ring Network
Multi-Station Access Unit
- 46900-RP244 ROLMphone (R) 244PC (available
only from ROLM (R))

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o Features and Accessories

PART NUMBER	FEATURE NUMBER	DESCRIPTION
6450213	0213	PC Network Adapter (1)
6450215	0215	Serial/Parallel Adapter (2)
6450217	0217	Serial Adapter Cable
6450230	0230	PC Network Base Expander
6450231	0231	PC Network Short Distance Kit
6450232	0232	PC Network Medium Distance Kit
6450233	0233	PC Network Long Distance Kit
6450234	0234	PC Network 25-Foot Cabling Segment
6450235	0235	PC Network 50-Foot Cabling Segment
6450236	0236	PC Network 100-Foot Cabling Segment
6450237	0237	PC Network 200-Foot Cabling

		Segment
6450242	0242	Serial Adapter Connector
1501204	1204	Binary Synchronous Communications (BSC) Adapter (2)
1501205	1205	SDLC Communications Adapter (2)
1501220	1220	PC Network Adapter II (2)
1501221	1221	PC Network Baseband Adapter (2)
1501227	1227	IBM Cabling System Personal Computer Network Baseband Cable
1501228	1228	IBM Personal Computer Network Baseband General Purpose Cable
1501229	1229	IBM Personal Computer Network Baseband Adapter Cable
1501300	1300	Game Control Adapter (2)
1502067	2067	Communications Adapter Cable
6403635	2877	Integrated 5250 Display Station Emulation Cable Assembly
74X8425	2911	Enhanced 5250 Display Station Emulation Adapter Kit, Version 2.12 (1) (5)
6339098	3390	IBM Token-Ring Network PC Adapter Cable
6339100	3391	IBM Token-Ring Network PC Adapter (1)
65X2016	4920	High Speed Adapter (HSA) (1)
65X2017	4925	3117 Scanner Adapter (1)
1501217	5001	IBM Personal System/2 8087 Math Co-Processor
1501216	5002	Personal System/2 Speech Adapter (1) (4)
1501224	5003	Personal System/2 Data Migration Facility
8575427	5050	3278/3279 Emulation Adapter (2) (4) (6)
67X0438	5063	IBM Token-Ring Network PC

		Adapter II (1)
81X8630	6011	IBM PC Music Feature (1)
6236069	6069	IBM 4700 Finance Communication System Security Option (2)
PART	FEATURE	
NUMBER	NUMBER	DESCRIPTION
6450244	8750	IBM Personal System/2 5.25-inch External Diskette Drive Adapter (2) (3)
6450350	8770	IBM Personal System/2 Mouse
74X7840	9610	Enhanced 5250 Display Station Emulation Space Saving Keyboard Addendum
6404107		IBM 3.5-inch Diskettes

(1) Requires full-size slot.

(2) Accepted in 8-inch slot.

(3) Installation Guide and User's Guide must be ordered separately (IBM Personal System/2 Model 25 5.25-inch External Diskette Drive Adapter Installation Instructions (S68G-2301)).

(4) The Speech Adapter (#5002) (1501216) and the 3278/3279 Emulation Adapter (#5050) (8575427) cannot be installed in the same system unit.

(5) Requires the Enhanced 5250 Display Station Emulation Space Saving Keyboard Addendum (#9610) (74X7840).

(6) The new 3278/79 Emulation Adapter part number is required for Personal System/2 Model 25. This new part number provides modified diagnostics for use with the Model 25 and will be available September 1987.

PUBLICATIONS

The following publication is shipped with the product:

TITLE	ORDER NUMBER	PART NUMBER
Guide to Operations	S75X-1051	75X1051

The following publications are available and can be obtained by contacting an Authorized IBM Personal Computer Dealer or an IBM marketing representative. They may also be obtained through the Technical Directory, a copy of which is included with the Guide to

Operations. Refer to the Directory for details.

TITLE	ORDER NUMBER	PART NUMBER
Guide to Operations	S75X-1051	75X1051
Hardware Maintenance		
Service Supplement	SA23-1201	75X1054
Technical Reference Manual	SA23-1202	75X1055
Hardware Maintenance		
Reference Supplement	SA23-1200	75X1059
3.5-Inch 720KB/1.44MB		
Diskette Drive Technical		
Reference Manual	S68X-2225	68X2225 *
Hardware Maintenance Binder	S01F-0200	01F0200

* Refer to Product Announcement 187-048, dated April 2, 1987.

EDUCATION SUPPORT

No education is planned for this product.

SCHEDULE

Planned Availability Date:

8525 Models 001 and 004: August 4, 1987

8525 Models G01 and G04: October 30, 1987

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

PHYSICAL SPECIFICATIONS:

- o Physical dimensions
 - Viewing area: 207mm by 155mm (8.15 in. by 6.1 in.)
 - Height: (top-to-bottom) 382mm (15 in.)
 - Width: (side-to-side) 320mm (12.6 in.)
 - Width: (footprint) 240mm (9.5 in.)
 - Depth: (front-to-back) 375mm (14.7 in.)
- o Weight
 - 8525-001/G01: 14.1kg (31 lbs)
 - 8525-004/G04: 16.3kg (36 lbs)
- o Space Saving Keyboard
 - Dimensions: 407mm by 190 mm (16 in. by 7.5 in.)
 - Weight: 1.9kg (4.2 lbs)
- o Enhanced Keyboard:
 - Dimensions: 493mm by 210mm (19.4 in. by 8.3 in.)

- Weight: 2.3kg (5 lbs)
- o Color -- pearl white
- o Environmental
 - THA class B, 15.6 to 32.2 (degs)C (60 to 90 (degs)F)
operating, 8 to 80% humidity, altitude 0 to 2133 m (0 to 7000 ft)
 - FCC, class B
 - Safety standards -- UL 478, CSA 154, IEC 380, and IEC 435
 - Fragility, 36 inch drop in shipping container
- o Acoustic
 - Idle at one meter: 43dB average, 45dB maximum
 - Operating at one meter: 44dB average, 46dB maximum
 - Operating at operator position: 48dB average, 51dB maximum
- o Universal power supply
 - 90-137 VAC or 180-259 VAC (controlled by switch on back)
 - 50HZ to 60HZ
 - Detachable line cord
- o Security features
 - System bolt down capability

MACHINE REQUIREMENTS: The minimum configurations are 8525-001 (monochrome analog display) or 8525-004 (color analog display) that come standard with 512KB RAM, one 3.5-inch 720KB diskette drive, an IBM Space Saving Keyboard and a 12-inch analog display.

The 8525-G01 (monochrome analog display) and 8525-G04 (color analog display) come standard with 512KB RAM, one 3.5-inch 720KB diskette drive, an IBM Enhanced Keyboard, and a 12-inch analog display.

PROGRAMMING REQUIREMENTS: IBM DOS Version 3.30 is required.

COMPATIBILITY: The IBM Personal System/2 Model 25 is compatible with the 8088 based IBM 5150 Personal Computer and Personal Computer XT at the BIOS level and at most hardware interfaces. Most existing personal computer software and non-timing dependent options work in all models. Due to the high level of integration of the Model 25, options such as Personal Computer or Personal Computer XT memory upgrades, and graphic adapters are not supported. The integrated Multi Color Graphics Adapter (MCGA) does not support MODE 7, MODE MONO, the mode that supports the 5151 Monochrome Display. Specific

software supported in the IBM Personal System/2 environment is listed in the attachment section at the end of this letter.

LIMITATIONS: The IBM Personal System/2 Model 25 does not support digital display devices. IBM Personal Computer and Personal Computer XT option cards that exceed 0.8-inch thickness are not supported.

PLANNING INFORMATION

CUSTOMER RESPONSIBILITIES: The IBM 8525 is designated as customer setup (CSU). Setup instructions are included with the system unit or features. CSU allowance is one day.

CABLE ORDERS: There are no cabling requirements other than for system power. Instructions are provided as part of initial system setup.

INSTALLABILITY: Using the setup instructions, the user attaches the keyboard, verifies the power range setting, plugs in the line cord and inserts the Starter Diskette. Power is then turned on and the user follows the instructions of the Starter Diskette to complete the setup. To simplify setup, there are no system setup switches.

PROBLEM DETERMINATION: If a failure is found during the Power-On Self Test (POST), an error code appears on the screen. If the test is successfully completed, the system attempts to load an operating

system from the A drive. If an operating system is not found, the user is prompted, via an icon, to insert a diskette. A final default is provided through use of a ROM loaded BASIC interpreter as more fully explained in the Guide to Operations (GTO).

The trouble-shooting procedures consist of a power-on self-test, diagnostic tests, and easy-to-follow trouble-shooting charts designed to assist the customer in isolating a defective machine or machine element. The failing machine or machine element can then be repaired or exchanged under existing warranty provisions.

PACKAGING: The IBM 8525 (8525-001, G01, 004, or G04) is packaged in two non-language sensitive cartons:

- o Keyboard carton (1393279 or 1393490)
 - Keyboard
 - Keyboard cable
- o System unit carton (8525-001, 004, G01, or G04)
 - System unit

- System unit power cable
- Guide to Operations, Setup Sheet with descriptive pictures, and Starter Diskette.

ACCESSORIES AND/OR SUPPLIES: The following supply item is available for the IBM Personal System/2 Model 25. For availability and pricing information, call IBM Direct at 800-426-2468.

PART NUMBER	DESCRIPTION
6404107	3.5-inch, 1.0MB Diskette (10-Pack)

NOTE: The 2.0MB diskette (6404078) is not supported.

SECURITY, AUDITABILITY, AND CONTROL

The IBM 8525 security, auditability and control features include a bolt-down feature that allows the user to physically secure the system unit to a table or desk. Three holes are provided in the system unit. Using the center hole only allows the user to rotate and tilt the system unit. If the two outside holes are used, the system unit will tilt, but will not rotate.

User management is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

TERMS AND CONDITIONS

VOLUME PURCHASE DISCOUNT: Volume purchasing is available under the Volume Procurement Amendment (VPA) to Agreement for Purchase of IBM Machines.

The IBM 8525 is included in Category A, Discount Group 1, of the Workstations and Related I/O VPA Exhibit (WKS-4) and in Category A of the IBM Personal Computers/System VPA for Qualified Educational Institutions/Hospitals Exhibit (PCED-3).

Customers with an existing IBM Workstations and Related I/O VPA Exhibit (WKS) or IBM Personal Computers/System VPA for Qualified Educational Institutions/Hospitals Exhibit (PCED) in effect with a commitment in Category A may order the IBM 8525 either as additional quantities to, or as direct substitutes for the other machines listed in Category A, subject to availability.

In addition, to facilitate the acquisition of the new IBM 8525 while VPA customers are making a transition to the newly announced VPA and Exhibits, VPA customers with a commitment in Category A of an

existing IBM Workstations VPA Exhibit (32WS) or the IBM Personal Computer VPA Exhibit for Qualified Educational Institutions/Hospitals (515E) may have IBM 8525s that are shipped during the contract period and before October 30, 1987, included under the customer's existing VPA. IBM 8525s purchased under the existing VPA will count toward the new volume commitment under the new VPA when the transition is made. IBM 8525s shipped after October 30, 1987, must be under the new VPA and Exhibit to qualify for any VPA discount.

EPC/EOC OFFERING: The IBM 8525 and its features are available through the Education Product Coordinator/Education Order Center (EPC/EOC) offering. Students, faculty, and staff of higher educational institutions and faculty and staff of kindergarten through 12th grade will receive the VPA or special bid discount to which the customer's institution is entitled.

Schools with an IBM EPC Agreement for the delivery of student, faculty or staff machines will be eligible for EPC delivery fees.

IBM CREDIT CORPORATION FINANCING: Term leases and installment payment plans for commercial and state and local government customers are available.

CUSTOMER FULFILLMENT OPTION (CFO) APPLIES: Yes

ELIGIBLE MACHINE UNDER ALTERNATIVE CERTIFICATION FOR IBM MACHINES:

No

WARRANTY PERIOD: One year

WARRANTY: Customer Carry-In Repair (CCR)

WARRANTY OPTIONS: IBM On-site Repair (IOR)

IBM MAINTENANCE AGREEMENT: IBM On-site Repair (IOR)

MACHINE GROUP: A

IBM HOURLY SERVICE RATE CLASSIFICATION: 1

Service may be obtained by calling the IBM Service/Exchange Communications Center at 800-428-2569. IBM Hourly Service is available at the applicable rate and terms including the Element Exchange price, if applicable.

VOLUME MAINTENANCE AMENDMENT (VMA): The IBM 8525 is an eligible machine and a qualifying machine under the Volume Maintenance Amendment to IBM Maintenance Agreement.

CORPORATE SERVICE AGREEMENT: Yes

CORPORATE SERVICE AMENDMENT: The IBM 8525 is an eligible machine for

the Corporate Service Amendment to the IBM Maintenance Agreement.

DISCOUNT PERCENT

	ONE	THREE	FIVE
OPTION	YEAR	YEARS	YEARS
Network	15%	25%	30%

PRODUCT AVAILABILITY STATUS: New product available.

CUSTOMER SETUP: Yes, CSU allowance is one day. IBM setup is available at the applicable IBM Hourly Service rate and terms.

PRE-INSTALLATION TEST ALLOWANCE: None

ON-SITE ALLOWANCE: None

EDUCATIONAL ALLOWANCE: A 20% educational allowance is available to qualifying institutions in accordance with the Educational Allowance Amendment. The educational allowance may not be added to any other discount or allowance.

CHARGES

DESCRIPTION	MACHINE TYPE	MODEL/ FEATURE	PURCHASE
		NUMBER	PRICE
Processor (Monochrome) with Space Saving Keyboard	8525	001	\$1,350
Processor (Monochrome) with Enhanced Keyboard	8525	G01	1,395
Processor (Color) with Space Saving Keyboard	8525	004	1,695
Processor (Color) with Enhanced Keyboard	8525	G04	1,740

FEATURES

DESCRIPTION	FEATURE NUMBER	PURCHASE PRICE
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3.5-inch 720KB Diskette

Drive	4106	\$170
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128KB Memory

Expansion Kit	4105	49
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ACCESSORIES

DESCRIPTION	FEATURE NUMBER	PURCHASE PRICE
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Personal System/2

Model 25

Carrying Case	4103	\$69
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MAINTENANCE CHARGES

PRODUCT	ANNUAL MINIMUM MAINTENANCE CHARGES	MINIMUM WARRANTY OPTION CHARGES
PRODUCT	IOR	IOR
8525-001	\$80	\$25
8525-G01	80	25
8525-004	90	25
8525-G04	90	25

PUBLICATIONS

NUMBER	DESCRIPTION	PURCHASE PRICE
S75X-1051	Guide to Operations	\$24.00
SA23-1201	Hardware Maintenance Service Supplement	33.00
SA23-1202	Technical Reference Manual	28.75
SA23-1200	Hardware Maintenance Reference Supplement	9.00
S01F-0200	Hardware Maintenance Binder	17.00

EPC DELIVERY FEE

PRODUCT	FEE
8525-001	\$28
8525-G01	29
8525-004	37
8525-G04	38

---NOTICE TO CUSTOMERS---NOTICE TO CUSTOMERS---

August 4, 1987

VOLUME PROCUREMENT AMENDMENT EXHIBITS FOR IBM PERSONAL
COMPUTERS/SYSTEM REVISED

Today, IBM announces modifications to the Exhibits used with the Volume Procurement Amendment (VPA) for IBM Workstations and Related I/O and IBM Personal Computers/System VPA for Qualified Educational Institutions/Hospitals. The attached VPA Exhibit (WKS-4 or PCED-3) automatically supersedes your present VPA Exhibit. You should refer to this Exhibit when placing orders for the IBM 8525 or other IBM Personal Computer products.

Revisions to these Exhibits involve the addition of the IBM 8525 in Category A, Discount Group 1, of the IBM Workstations and Related I/O VPA Exhibit (WKS-4) and in Category A of the IBM Personal Computers/System VPA Exhibit for Qualified Educational Institutions/Hospitals (PCED-3).

Customers with an existing IBM Workstations and Related I/O VPA Exhibit (WKS) or IBM Personal Computers/System VPA for Qualified Educational Institutions/Hospitals Exhibit (PCED) in effect with a commitment in Category A may order the IBM 8525 either as additional quantities to, or as direct substitutes for the other machines listed in Category A, subject to availability.

In addition, to facilitate the acquisition of the new IBM 8525 while VPA customers are making a transition to the newly announced VPA and Exhibits, VPA customers with a commitment in Category A of an existing IBM Workstations VPA Exhibit (32WS) or the IBM Personal Computer VPA Exhibit for Qualified Educational Institutions/Hospitals (515E) may have IBM 8525s that are shipped during the contract period and before October 30, 1987, included under the customer's existing VPA. IBM 8525s purchased under the existing VPA will count toward the new volume commitment under the new VPA when the transition is made. IBM 8525s shipped after October 30, 1987, must be under the new VPA and Exhibit to qualify for any VPA discount.

The IBM 8525 is eligible for Customer Fulfillment Option (CFO).

If sufficient additional quantities are ordered to qualify for a greater discount, a Supplement for Additional Quantities must be

signed, and all machines shipped on and after the date the signed supplement is received by IBM, and prior to expiration of the contract period, will receive the greater discount.

If you have any questions regarding this notification, please contact your IBM marketing representative.

LIST OF SOFTWARE PRODUCTS SUPPORTED

IBM SOFTWARE ON IBM PERSONAL SYSTEM/2 MODEL 25

The IBM Personal System/2 Model 25 maintains compatibility with most software products that operate on the IBM Personal System/2 Model 30. Differences in system configurations (media, memory, keyboard, and display) must be considered in selecting software*.

The following IBM licensed programs are compatible with the IBM Personal System/2 Model 25 and DOS Version 3.30, and will operate substantially as described in their program documentation.

The part numbers referenced in the 3.5-inch and 5.25-inch columns reflect the diskette media on which the program was tested. The absence of a part number in a column does not necessarily imply that the program is not available on that medium.

Refer to the product documentation of the individual programs for any additional hardware or software requirements.

* Improvements in usability and performance of the software may be possible by purchasing configurations of the IBM Model 25 containing optional IBM features.

PRODUCT	VERSION	3.5-INCH PART NUMBER	5.25-INCH PART NUMBER
COMMUNICATION PRODUCTS			
3278 Emulation via IBM Personal Computer (5360/5362) (1)	5.1		
3278 Emulation via IBM Personal Computer (5364) (1)	5.1		
4700 Personal Computer Application Services (2)	1.10		6934406
Advanced Program-to-Program Communications for the Personal Computer (3)	1.11	75X1047	75X1047
Asynchronous Communications			

Server Program	1.00		1642003
Distributed Data Management/PC	1.00	59X3653	59X3653
Enhanced 5250 Emulation Program (4) (5)	2.12	74X8402	74X8402
Enhanced 5250 Emulation Installation Convenience Kit (4) (5)	2.12	74X8403	74X8403
Local Area Network Support Program	1.00	83X7873	
Mainframe Communications Assistant	1.05	6024452	
Network Protocol Driver (3)	1.00	6280061	
PC 3270 Emulation Local Area Network Management Program	1.00	83X8873	
PC 3270 Emulation Program (4)	3.02	59X9969	
PC 3270 Emulation Program, Entry Level (6)	1.20	75X1085	
PC/Host File Transfer and Terminal Emulator Program	1.00	6476052	
PC Local Area Network Program	1.20	75X1081	
PC Support/36 (5360/5362) (7) (8)	5.1		
PC Support/36 (5364) (7) (8)	5.1		
PC Support/36 Expansion Feature (5360/5362) (7)	5.1		
PC Support/36 Expansion Feature (5364) (7)	5.1		
PC Support/36 Workstation Feature (5360/5362) (6) (9)	5.1		
		3.5-INCH	5.25-INCH
		PART	PART
PRODUCT	VERSION	NUMBER	NUMBER
PC Support/36 Workstation Feature (5364) (6) (9)	5.1		
PC Support/38 (10)	8.0		
PC Support/38 Expansion Feature (10)	8.0		
Remote NETBIOS Access Facility	1.00	69X7771	69X7771

(1) Product is downloaded from the System/36.

(2) Requires current level of maintenance to be applied.

(3) Compatible with the IBM PC Network Adapter II.

(4) Hot-key to new video modes (modes 11 and 13) not supported.

(5) Requires the Enhanced 5250 Display Station Emulation Space

Saving Keyboard Addendum (74X7840) (#9610).

(6) Hot-key to new video modes (modes 11 and 13) not supported.

(7) Product is downloaded from the System/36.

(8) Includes 3.5-inch and 5.25-inch PC-compatible installation diskettes in addition to System/36 installation diskette.

(9) Product runs from virtual disk on attached System/36 or can be downloaded from the System/36.

(10) Product is downloaded from the System/38.

PROGRAMMER TOOLS AND LANGUAGES

IBM BASIC Compiler/2	1.00	6280179
BASIC Compiler	2.01	6280078
BASIC Interpreter	3.30	6280060
IBM C/2	1.00	6280187
C Compiler	1.00	6280081
IBM COBOL/2	1.00	6280207
IBM COBOL	2.00	6280177
EZ-PREP(Cross System Product/ Application Generation)	1.00	6317011
EZ-RUN(Cross System Product/ Application Execution)	1.00	6317010
IBM FORTRAN/2	1.00	6280185
Graphics Development Toolkit (1) (2)	(1.20	6280203
Image Support Facility 2	1.10	6457821
IBM Macro Assembler/2	1.00	6280181
Macro Assembler	2.00	6280077
IBM Pascal Compiler/2	1.00	6280183
Pascal Compiler	2.02	6280166
Professional FORTRAN	1.30	6280127

(1) Supports the IBM Personal System/2 Mouse.

(2) Supports graphics mode 320 by 200-256 colors.

(3) Supports graphics mode 640 by 480-2 colors.

BUSINESS/PRODUCTIVITY APPLICATIONS

Personal Services/PC	1.20	6476054
Personal Services/PC	1.30	6476148
Storyboard Plus (1) (2)	1.00	6024401

ASSISTANT SERIES

DisplayWrite Assistant (3)	1.00	59X9958
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Filing Assistant	2.00	6024457	
Graphing Assistant	2.00	6024458	
Mainframe Communications Assistant	1.05	6024452	
Planning Assistant	2.00	6024461	
Project Assistant	1.00	6024462	
Reporting Assistant	2.00	6024459	
Writing Assistant	2.00	6024460	
		3.5-INCH	5.25-INCH
		PART	PART
PRODUCT	VERSION	NUMBER	NUMBER
ACCOUNTING ASSISTANT SERIES			
Accounts Payable Edition	1.00	6467004	
Accounts Receivable and Billing Edition	1.00	6467005	
General Accounting Edition	1.00	6467003	
Inventory Control and Purchasing Edition	1.00	6467007	
Job Cost Edition	1.00	6467008	
Payroll Edition	1.00	6467006	
BUSINESS ADVISER			
Accounts Payable Edition (4)	1.20	6476056	
Accounts Receivable Edition (4)	1.20	6476057	
General Accounting Edition (4)	1.20	6476055	
Information Management Edition (4)	1.20	6476069	
Inventory Control Edition (4)	1.20	6476067	
Network Extension Edition (4) (5)	1.20	6476059	
Order Entry Edition (4)	1.20	6476068	
Payroll Edition (4)	1.20	6476058	
OTHER APPLICATIONS			
PC/Colorview	1.10	6410982	
PC/VTXACCESS	1.00	6476071	

(1) Supports the IBM Personal System/2 Mouse.

(2) Supports graphics mode 320 by 200-256 colors.

(3) If DISPLAY.SYS is present on the target diskette, it must be renamed to some other name before the install program is executed. It must later be renamed back to DISPLAY.SYS after the install program completes.

(4) IBM 8525 used as a workstation only; not as a server.

(5) Update required for installation; dedicated server required.

EDUCATION PRODUCTS

Bouncy Bee Learns Letters	1.00/1.01	6024511	6024137
Bouncy Bee Learns Words	1.00/1.01	6024510	6024139
IBM Classroom LAN Administration			
System	1.10	6024773	6024773
Comma Cat	1.00	6024093	
Dictionary Dog	1.00	6024067	
Electric Poet	1.00	6024172	
Get Set For Writing To Read (1)	1.00/1.01	6024468	
Get Set For Writing To Read School Kit	(1.10	6024768	6024768
Listen to Learn (2)	1.00/1.01	6024506	6024165
Logo (3)	1.00	6024731	6024076
Logo Learner (3)	1.00/1.01	6024515	6024136
Missing Letters	1.00/1.01	6024507	6024104
Primary Editor (1)	1.00	6024294	
Teacher's Quiz Designer	1.00/1.01	6024509	6024075
Typing Tutor	1.00	6024013	
Writing to Read Program Kit (1)	3.00	6024513	6024447
BASIC SKILLS SERIES			
Combining Sentences: Level II	1.01	6024689	6024482
Combining Sentences: Level III	1.01	6024690	6024483
Combining Sentences: Level IV	1.01	6024691	6024484
Geometry One: Foundations	1.01	6024707	6024485
Geometry Two: Proofs & Extensions	1.01	6024728	6024486
Math Concepts: Level P	1.01	6024721	6024356
Math Concepts: Level I	1.01	6024722	6024355
Math Concepts: Level II	1.01	6024723	6024357
Math Concepts: Level III	1.01	6024724	6024427
Math Concepts: Level IV	1.01	6024716	6024429
		3.5-INCH	5.25-INCH
		PART	PART
PRODUCT	VERSION	NUMBER	NUMBER
Math Practice: Level I	1.01	6024663	6024353
Math Practice: Level II	1.01	6024664	6024354
Math Practice: Level III	1.01	6024665	6024431

Math Practice: Level IV	1.01	6024666	6024432
Parts of Speech: Level II	1.01	6024679	6024333
Parts of Speech: Level III	1.01	6024680	6024334
Punctuation: Level II	1.01	6024695	6024487
Punctuation: Level III	1.01	6024696	6024488
Punctuation: Level IV	1.01	6024697	6024489
Reading for Information: Level II	1.01	6024683	6024358
Reading for Information: Level III	1.01	6024684	6024359
Reading for Information: Level IV	1.01	6024685	6024360
Reading for Meaning: Level I	1.01	6024671	6024330
Reading for Meaning: Level II	1.01	6024672	6024336
Reading for Meaning: Level III	1.01	6024673	6024337
Reading for Meaning: Level IV	1.01	6024674	6024338
Spelling: Level I	1.01	6024720	6024347
Spelling: Level II	1.01	6024708	6024348
Spelling: Level III	1.01	6024709	6024349
Touch Typing for Beginners	1.01	6024698	6024339
Vocabulary: Level II	1.01	6024701	6024350
Vocabulary: Level III	1.01	6024702	6024351
Vocabulary: Level IV	1.01	6024703	6024352
PRIVATE TUTOR SERIES			
Basic Number Concepts	1.00		6024297
Capitalization Skills	1.00		6024085
Computers and Communications	1.00		6024069
Language Skills	1.00		6024084
Learning DOS	1.00		6024063
Learning to Program in BASIC	1.00		6024081
Math Computation Skills	1.00		6024305
Preparing for Geometry and Algebra	1.00		6024307
Private Tutor (4)	2.00/2.01	6024508	6024113
Punctuation Skills	1.00		6024083
Reading Comprehension Skills	1.00		6024325
Solving Math Word Problems	1.00		6024308
Spelling Skills	1.00		6024086
Vocabulary Building Skills	1.00		6024326
Word Knowledge Skills	1.00		6024327
BIOLOGY SERIES			

Cell Functions: Growth & Mitosis	1.00/1.01	6024635	6024316
Chemicals of Life I:			
The Structure of Matter	1.00/1.01	6024636	6024317
Chemicals of Life II:			
Water, Carbohydrates, & Lipids	1.00/1.01	6024647	6024344
Chemicals of Life III:			
Proteins & Nucleic Acids	1.00/1.01	6024614	6024409
Cytology & Histology:			
Cells & Tissues	1.00/1.01	6024612	6024407
Human Life Processes I:			
Cellular Physiology	1.00/1.01	6024649	6024346
Human Life Processes II:			
Systems Level	1.00/1.01	6024616	6024411
Human Life Processes III:			
Development & Differentiation	1.00/1.01	6024657	6024414
Leaf: Structure & Physiology	1.00/1.01	6024637	6024318
Light, Plants, and Photosynthesis:			
Energy in Conversion	1.00/1.01	6024638	6024319
		3.5-INCH	5.25-INCH
		PART	PART
PRODUCT	VERSION	NUMBER	NUMBER
Mendelian Genetics:			
The Science of Inheritance	1.00/1.01	6024613	6024408
Modern Genetics: Chromosomes			
& Coding	1.00/1.01	6024648	6024345
Passive Transport:			
Diffusion and Osmosis	1.00/1.01	6024639	6024320
Pathology: Diseases & Defenses	1.00/1.01	6024646	6024343
Plants: Growth and Specialization	1.00/1.01	6024645	6024321
Pollination & Fertilization:			
Seeds, Fruits, and Embryos	1.00/1.01	6024633	6024415
Regulation & Homeostatis:			
Systems in Balance	1.00/1.01	6024615	6024410
Taxonomy: Classification &			
Organization	1.00/1.01	6024655	6024416
The Environment I:			
Habitats & Ecosystems	1.00/1.01	6024658	6024412

The Environment II: Cycles & Interactions	1.00/1.01	6024656	6024413
SCIENTIFIC REASONING SERIES			
Concept Development: Heat & Temperature, & Graphs	1.00	6024632	
Measurement Process: Distance & Area	1.00	6024730	
Ratio Reasoning: Crystals & Speed	1.00	6024631	
Scientific Models: Batteries and Bulbs, & Families	1.00	6024630	
Theory Formation: Reflections & Patterns	1.00	6024729	
PHYSICS DISCOVERY SERIES			
Investigating Acceleration	1.01	6024624	6024403
Investigating Atomic Models	1.00	6024523	6024118
Investigating Conservation of Energy	1.01	6024625	6024406
Investigating Electric Fields	1.01	6024627	6024464
Investigating Gravitational Force	1.01	6024622	6024404
Investigating Models of Light	1.01	6024626	6024465
Investigating Thermal Energy	1.01	6024623	6024405
Investigating Wave Interference	1.01	6024628	6024466
EARTH SCIENCE SERIES			
Earthquakes	1.00/1.01	6024517	6024322
Glacial Landforms	1.00	6024514	6024117
Ground Water	1.00/1.01	6024516	6024122
Hydrologic Cycle	1.00/1.01	6024518	6024121
Landslides	1.01	6024522	6024324
Moisture in the Atmosphere	1.00/1.01	6024520	6024124
Surface Water	1.00/1.01	6024519	6024123
Volcanoes	1.00/1.01	6024521	6024323

(1) Requires the IBM Personal System/2 Speech Adapter.

(2) Screen alignment function neither required nor supported.

(3) Does not support the IBM Graphics Printer (5152).

(4) Screen alignment function in Version 2.00 neither required nor supported.

INDEPENDENT PUBLISHERS' SOFTWARE ON IBM PERSONAL SYSTEM/2 MODEL 25

The following independent software publishers have stated that they intend to make the following programs available for the IBM Personal

System/2 Model 25 on 3.5-inch media. Users should select the program configuration of the IBM Model 8525 to optimize usability and performance of the software.

SOFTWARE PUBLISHER	PRODUCT	VERSION
Alpha (1) Software Corporation	Alpha/Three	1.0
	Electric Desk (2)	1.1
Ashton-Tate	Chart-Master (3)	6.0
	dBase III (3) Plus	1.1
	Framework II (3)	1.1
	MultiMate (3) Advantage II	1.0
	Sign-Master (3)	6.0
Borland International, Inc.	REFLEX (4)	1.14
	Turbo Pascal (4)	3.02A
	SIDEKICK (4)	1.56B
	Turbo Lightning (5)	1.02A
Computer Associates International, Inc.	SuperCalc (6) 4	1.1
	SuperProject (6) Plus (7)	2.0
Digital Research (8), Inc.	GEM Draw (9) Plus	2.0
	GEM Graph (9)	1.0
	GEM Word Chart (9)	1.0
Enertronics Research, Inc.	ENERGRAPHICS (10)	*2.01
Lifetree Software, Inc.	VOLKSWRITER (11) 3	1.0
	VOLKSWRITER Deluxe Plus	1.0
Media Cybernetics, Inc.	DR. HALO (12) III (12)	1.0
Micro Education Corporation of America	Managing Your Money (13)	3.0
Micro-Integration Corporation	BIS-3270 (14)	6.0
MicroPro International Corporation	Easy (15) Extra	1.5
	WordStar (16) 2000 Plus	2.0
	WordStar Professional	4.0
Microrim (17), Inc.	R: BASE (17) 5000	1.1
	R: BASE CLOUT (17)	3.0
	R: BASE Extended	2.0
	ReportWriter	
	R: BASE System V	1.1

Microsoft (18) Corporation	Microsoft MultiPlan (18) Microsoft Word Microsoft Chart Microsoft Flight Simulator Microsoft Project Microsoft Windows	3.00 3.01 2.03 2.14 3.10 1.04
Novell, Incorporated	Advanced NetWare (19) for Personal System/2 Advanced NetWare for Personal System/2	2.0a 2.1
SOFTWARE PUBLISHER	PRODUCT	VERSION
Software Products International, Inc. Software Publishing Corporation	OPEN Access II Harvard Total Project Manager II PFS: Professional Write PFS: Professional File PFS: Professional Plan	2.05 2.0 1.0 1.0 1.0
TCS Software, Inc.	TCS Client Ledger System	3.36
WATCOM	Waterloo JANET	3.0
WordPerfect Corporation	WordPerfect PlanPerfect WordPerfect Library	4.2 3.0 2.0
Z-SOFT Corporation	PC Paintbrush+ (20)	1.25

(1) Registered trademark of Alpha Software Corporation.

(2) Trademark of Alpha Software Corporation.

(3) Trademarks of Ashton-Tate.

(4) Registered trademarks of Borland International, Inc.

(5) Trademark of Borland International, Inc.

(6) Registered trademarks of Computer Associates International, Inc.

(7) Trademark of Computer Associates International, Inc.

(8) Registered trademark of Digital Research, Inc.

(9) Trademarks of Digital Research, Inc.

(10) Trademark of Enertronics Research, Inc.

(11) Registered trademark of Lifetree Software, Inc.

(12) Trademarks of Media Cybernetics, Inc.

- (13) Registered trademark of Micro Education Corporation of America.
- (14) Registered trademark of Micro-Integration Corporation.
- (15) Trademark of MicroPro International Corporation.
- (16) Registered trademark of MicroPro International Corporation.
- (17) Registered trademarks of Microrim, Inc.
- (18) Registered trademarks of Microsoft Corporation.
- (19) Registered trademark of Novell, Incorporated.
- (20) Registered trademark of Z-SOFT Corporation.

INDEPENDENT PUBLISHERS' SOFTWARE ON IBM PERSONAL SYSTEM/2 MODEL 25

The following independent software publishers of education products have stated that they intend to make the following programs available for the IBM Personal System/2 Model 25 on 3.5-inch media.

SOFTWARE

PUBLISHER	PRODUCT
Broderbund	Bank Street Writer (1) Plus
	Print Shop (2)
	Print Shop Companion
	Print Shop Graphics Library #1
	Print Shop Graphics Library #2
	Print Shop Graphics Library Holiday Edition
	The Toy Shop (3)
	Type! (3)
	Where in the USA is Carmen Sandiego (3)
	Where in the World is Carmen Sandiego (2)
Davidson & Associates	Alge-Blaster! (4)
	Classmate (4)
	Grammar Gremlins (4)
	Homeworker (4)
	Math Blaster! (4)
	Speed Reader II (4)
	Spell It! (4)
DLM	Word Attack! (4)
	Alien Addition (5)
	Alligator Mix (5)
	Alphabet Circus
	Comparison Kitchen (6)

Create with GARFIELD! (6) Deluxe Edition
 Demolition Division (5)
 Dragon Mix (5)
 Freddy's Puzzling Adventures (6)
 Meteor Multiplication (5)
 Minus Mission (5)
 Number Farm (6)
 Shape and Color Rodeo (6)
 SIB Compuscore (6)
 Spelling Wiz (6)
 Verb Viper (6)
 Woodcock Johnson Compuscore (6)
 Word Invasion (6)
 Word Man (6)
 Word Master (6)
 Word Radar (6)
 49'ers, The
 Adjectives
 Adverbs
 Analogies Advanced
 Analogies College Bound
 Analogies Tutorial
 Antonyms/Synonyms
 Black Americans
 Calendar Skills
 Cause and Effect
 Chemical Elements
 Civil War, The
 Clock
 Continents-Medalists
 Create Lessons
 Create-Medalists
 Discover the World
 Double n' Trouble
 European Theatre, The

Hartley

SOFTWARE

PUBLISHER

PRODUCT

Fact or Opinion
 Facts and Fallacies
 Famous Scientists
 Figurative Language
 Homonyms
 Indian Wars, The
 Integers/Equations I & II
 Intellectual Pursuits
 Kalamazoo Teacher's Record Book
 Math Concepts I & II
 Medalists-Presidents
 Medalists-States
 Medalists-Women in History
 Memory Match
 Metric Skills I and II
 Nouns/Pronouns
 Number Words Level 2
 Opposites
 Pacific Theater, The
 Prescription Math Drill
 President's Physical Fitness '87
 Race for the West
 Roots and Affixes
 Shakespeare
 U. S. History
 Verb Usage
 Verbs
 Who, What, Where, When, Why
 Word Families

INDIVIDUAL (7)
 Software, Inc.

INDIVIDUAL Training (7) for dBase III Plus (

INDIVIDUAL Training for Lotus (9)

PC Instructor (7)

Professor DOS (7)

Professor Pixel (7)

Typing Instructor II (7)

Mindscape

Algebra Series
 Equations

Equations 2
 Solving Quadratic Equations
 Simultaneous Linear Equations
 Balance of Power
 Bank Street Musicwriter
 Bank Street Storybook
 Body in Focus, The
 Bop'n Wrestle
 Boston Computer Diet, The Original
 Crossword Magic
 Infiltrator
 Master Type
 Mastering the ACT
 Mastering the GRE
 Mastering the SAT (10)
 Novel Approach, The: A Tale of Two Cities
 Novel Approach, The: Animal Farm
 Novel Approach, The: Lord of the Flies
 Novel Approach, The: Romeo and Juliet
 Novel Approach, The: The Call of the Wild
 Perfect College, The
 Perfect Score, The
 Quest for Files: Science
 Quest for Files: Social Studies
 Reading Workshop, The, grades 4-6
 Reading Workshop, The, grades 7-9

SOFTWARE

PUBLISHER

PRODUCT

Social Studies Explorer Series:

America

Social Studies Explorer Series:

World Geography

Superstar Ice Hockey

That's My Story

Scholastic (11)

A.I.

Bank Street Writer III

First Draft

	Math Shop
	pfs (12): File/Report
	pfs: Write
Spinnaker (13)	Alphabet Zoo (14)
	Delta Drawing (14)
	Facemaker (14)
	Homework Helper-Writing (14)
	In Search of the Most Amazing Thing (14)
	Kids on Keys (14)
	Kidwriter (14)
	Kindercomp (14)
	Presidents Choice (14)
	Snooper Troops #1 (14)
	Snooper Troops #2 (14)
	Story Machine (14)
Sunburst	Puzzle Tanks
Communications (15), Inc.	Power Drill
	Teasers by Tobbs (16)
	The Factory (16)
	The Pond (16)
The Learning (17)	Gertrude's Puzzles (18)
Company	Gertrude's Secrets (18)
	Magic Spells (18)
	Math Rabbit (18)
	Reader Rabbit and the Fabulous
	Word Factory (18)
	Robot Odyssey I (18)
	Rocky's Boots (18)
	Writer Rabbit (18)

- (1) Trademark of Bank Street College of Education.
- (2) Registered trademark of Broderbund Software, Inc.
- (3) Trademarks of Broderbund Software, Inc.
- (4) Trademarks of Davidson and Associates, Inc.
- (5) Registered trademarks of Developmental Learning Materials, Inc.
- (6) Trademarks of Developmental Learning Materials, Inc.
- (7) Trademarks of INDIVIDUAL Software, Inc.

- (8) Trademark of Ashton-Tate.
- (9) Registered trademark of Lotus Development Corporation.
- (10) Registered trademark of the College Entrance Examination Board.
- (11) Registered trademark of Scholastic, Inc.
- (12) Registered trademark of Software Publishing Corporation.
- (13) Registered trademark of Spinnaker.
- (14) Trademarks of Spinnaker.
- (15) Registered trademark of Sunburst Communications, Inc.
- (16) Trademarks of Sunburst Communications, Inc.
- (17) Registered trademark of The Learning Company.
- (18) Trademarks of The Learning Company.

CORRECTED ON MARCH 11, 1988. In the DESCRIPTION section, Footnote 4 under Features and Accessories, the feature and part numbers for the 3278/3279 Emulation Adapter have been corrected to (#5050) (8575427).

CORRECTED ON AUGUST 4, 1987. In the Description section, Features and Accessories bullet under I/O Devices Supported heading, the following features have been added to the list:

PART	FEATURE	
NUMBER	NUMBER	DESCRIPTION
1501227	1227	IBM Cabling System Personal Computer Network Baseband Cable
1501228	1228	IBM Personal Computer Network Baseband General Purpose Cable
1501229	1229	IBM Personal Computer Network Baseband Adapter Cable

Feature number 4106 is the correct feature number for the 3.5-inch (720KB) Diskette Drive; 4104 was originally assigned in error.