

**IBM PERSONAL SYSTEM/2 (TM) MODEL 60**

Contents

[Announcement Letter Number ZG87-4005 dated April 2, 1987](#)

[Europe Middle East Africa - Last Revised on April 2, 1987](#)

**Brief Description of Announcement, Charges, and Availability**

**Customer Letter Section**

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\* IBM HARDWARE PRODUCT INFORMATION APRIL 87 \* \* \* \* \*

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\* local IBM representative. \* \* \* \* \*

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ZG87-4005

IBM PERSONAL SYSTEM/2 (TM) MODEL 60

PRODUCT DESCRIPTION	ITEM NO	AAS NO	LANGUAGE
IBM Personal System/2 Model 60 (IBM 8560-041)	6134314	8560-041	
IBM Personal System/2 Model 60 (IBM 8460-071)	6134315	8560-071	
IBM Personal System/2 Model 60 Quick Reference	95X3614	#3614	US-English
IBM Personal System/2 Model 60 Quick Reference	75X5220	#5220	UK-English
IBM Personal System/2 Model 60 Quick Reference	75X5210	#5210	French
IBM Personal System/2 Model 60 Quick Reference	75X5211	#5211	German
IBM Personal System/2 Model 60 Quick Reference	75X5212	#5212	Italian
IBM Personal System/2 Model 60 Quick Reference	75X5213	#5213	Spanish
IBM Personal System/2 Model 60 Quick Reference	75X5214	#5214	Swedish
IBM Personal System/2 Model 60 Quick Reference	75X5215	#5215	Finnish
IBM Personal System/2 Model 60 Quick Reference	75X5217	#5217	Danish
IBM Personal System/2 Model 60 Quick Reference	75X5216	#5216	Dutch
IBM Personal System/2 Model 60 Quick Reference	75X5218	#5218	Norwegian
IBM Personal System/2 Model 60 Quick Reference	75X5219	#5219	Portuguese

PRODUCT DESCRIPTION

The IBM Personal System/2 Model 60 (IBM 8560) introduces advanced design and technology and MICRO CHANNEL (TM) architecture to

enhance the performance of computing for the business marketplace. The 10MHz 80286 Intel microprocessor based system offers application growth capabilities and maintains compatibility with most current IBM Personal Computer programs. A high level of feature integration on the system board reduces optional adapter requirements. When configured with the analogue displays, the IBM 8560's Video Graphics Array (VGA) provides enhanced performance, increased display functions and increased colour availability. The system includes a 1.44 Mb 3.5 inch diskette drive and a 44 Mb fixed disk drive (expandable to 88 Mb) (8560-041) or 70 Mb fixed disk drive (expandable to either 140 Mb or 185 Mb) (8560-071). A wide range of connectivity options allow the IBM 8560 to communicate with a variety of hosts and networks.

National Language support is provided on the hardware for the following eleven languages: Danish, Dutch, English (UK), Finnish, French, German, Italian, Norwegian, Portuguese, Spanish and Swedish. Keyboard Support is provided for the above languages plus Belgian, Swiss-French and Swiss-German. The IBM 8560 has a RAM loadable character generator. This allows any code page that utilises one of the supported text modes to be loaded. The operating systems IBM Personal Computer DOS 3.3 and IBM Operating System/2 will provide this capability. Additionally, language supplements are available for Arabic and Hebrew, when using IBM Disk Operating System (DOS) 3.3. IBM intends to provide national language support for Iceland, Greece and Turkey to work with IBM Personal Computer Disk Operating System (DOS) 3.3, but cannot make an announcement at this time.

#### HIGHLIGHTS

The new IBM 8560 features the following:

- o New MICRO CHANNEL (TM) architecture with a 16-bit bus
- o Increased processing speed (80286/10MHz)
- o Improved multitasking and communications capabilities
- o New level of graphics and text quality

- o Large capacity 44 Mb or 70 Mb fixed disk and 1.44 Mb, 3.5 inch diskette drive
- o High level of feature integration on the system board
- o Ease of installation and configuration
- o Universal, automatic voltage-sensing power supply

#### DETAILS

The IBM Personal System/2 Model 60 (IBM 8560) is a mid range desk-side member of IBM's family of systems with of systems with MICRO CHANNEL (TM) architecture.

The system unit features a 10 MHz microprocessor, and 1 Mb of memory on the system board, expandable to 15 Mb with memory options. The IBM 8560 comes standard with a 1.44 Mb, 3.5 inch diskette drive and controller, either a 44 Mb or 70 Mb fixed disk drive, a disk controller, a keyboard port, a serial/asynchronous port, a bi-directional parallel port, a pointing device port, and a video graphics array (VGA) port: this port supports graphics and text modes (including 640 x 480 graphics, 320 x 200 graphics in 256 colours, and 720 x 400 text) and yet maintains compatibility with CGA and EGA.

This high level of feature integration on the system board reduces the requirements for optional adapters. In addition, the system is designed for tool-free installation and includes security features in both BIOS/CMOS and an external keylock.

The system has two levels of BIOS (which total 128 Kb). One is a compatibility BIOS (CBIOS) with memory addressability of up to 1 megabyte that provides compatible support for current application programs. The other version of BIOS: advanced BIOS (ABIOS) provides support for multi-tasking operating systems and has extended addressability up to 16 megabytes, however the physical memory capacity of the IBM 8560 is limited to 15 Mb.

Features of the System Unit are: A universal power supply, a time/date clock with a long life lithium battery, a capacity for a second fixed disk drive and for a second 3.5-inch diskette drive. The MICRO CHANNEL (TM) architecture supports seven (7)

general purpose 16 bit I/O bus slots plus a 16 bit dedicated slot occupied by the disk controller adapter. Adapter options are automatically recognised (no setup switches) for easy configuration and improved diagnostic and fault isolation for better availability.

The IBM 8560 supports the IBM Personal System/2 Monochrome Display 8503, IBM Personal System/2 Colour Display 8512, IBM Personal System/2 Colour Display 8513 and IBM Personal System/2 Colour Display 8514 analogue displays which, together with the new VGA built-in function, provide significant enhancements to graphics and text capabilities. The ability to display more colours using larger palettes with enhanced addressability widely expands new application opportunities.

#### PERFORMANCE

A Disk Cache is available on the Reference Diskette (included in the Quick Reference), which the user can install with IBM DOS 3.3. This program is designed to provide enhanced disk performance for many applications.

The 80286 10 MHz 16 bit microprocessor combined with MICRO CHANNEL (TM) architecture, the Disk Cache program and the 80287 Math Co-processor allows IBM 8560 to perform up to two (2) times faster than the IBM Personal Computer AT Extended. This

information is based on the testing described in the IBM Personal System/2 Performance Guide. Your results may vary. For details, contact IBM or an IBM authorised dealer.

#### AVAILABLE OPTIONS

The following options expand the base function of the IBM 8560.

#### SYSTEM FEATURES

The following new options expand the base function of the 8560.

##### IBM PERSONAL SYSTEM/2 ....

- o 80287 Math Co-processor (#3001) (#6450356)
- o 80286 Memory Expansion Option (#3006) (#6451001)
- o 80286 Memory Expansion Kit (#3012) (#6451002)

- o 80286 Expanded Memory Adapter/A (#3920) (#1497252)
- o 1.44 Mb Diskette Drive (#3057) (#6450353)
  - Size:
    - Height 41 mm (1.6 inches)
    - Width 102 mm (4.0 inches)
    - Depth 150 mm (5.9 inches)
    - Weight 0.68 kg (1.5 lb)
  - Media:
    - 3.5 inch ANSI compatible
    - Media Capacity (2 Mb) - High Density Mode
      - Unformatted
        - 2 Mb (1 Mb per side)
        - 12.5 Kb per track
      - Formatted
        - 1.44 Mb (720 Kb per side)
        - 9 Kb per track
    - Track Density: 135 tracks per inch
    - Tracks: 80
    - Sectors per Track: 18 High Density Mode
    - Number of Heads: 2
    - Transfer Rate: 500,000 bps High Density Mode
    - Access Time:
      - Track-to-Track: 6 ms
      - Seek Settle Time: 15 ms
      - Motor Start Time: 500 ms (maximum)
    - Disk Speed: 300 rpm +/- 1.5%
  - o MOUSE (#3063) (#6450350)
  - o 5.25-Inch External Drive Adapter/A (#3005) (#6450245)
  - o Data Migration Facility (#5003) (#1501224)
  - o 3117 Scanner Adapter/A (#1029) (#65X1925)
  - o High speed Adapter/A (#1028) (#65X1905)
  - o Display Adapter 8514/A (#7161) (#59X7161)
  - o 44Mb Fixed Disk Drive Model 041 only (#3046) (#6450354)
    - Formatted Capacity:

512 bytes per sector

17 sectors per track

733 cylinders

7 heads

Transfer Rate:

5 Mbps (million bits per second)

Access Time (Including settle):

Track to Track: 10 ms

Average: 40 ms (traverse 1/3 cylinders)

Maximum: 80 ms

- o 70 Mb Fixed Disk Drive Model 071 only (#3051) (#6450355)

Formatted Capacity:

70MB

512 bytes per sector

36 sectors per track

583 cylinders

7 heads

Transfer Rate:

10 Mbps (million bits per second)

Access Time:

Single Cylinder Seek: 5 ms (average)

Average Seek: 30 ms (weighted)

Maximum Seek: 60 ms (maximum)

- o 115 Mb Fixed Disk Drive Models 071 only (#8730) (#6450377)

- o Internal Optical Disk Drive
  - (110 Volts) (#8700) (#63X4166)
  - (220 Volts) (#8700) (#68X7891)

#### COMMUNICATIONS FEATURES:

The following communication features support the IBM 8560

- o IBM 3270 Connection (#2000)
  - (#83X9702)
- o IBM System 36/38 Workstation Emulation Adpt (#6292)
  - (#69X6292)

## IBM PERSONAL SYSTEM/2 . . . .

- o Dual Async Adapter/A (#3033)  
(#6450347)
- o Multi-protocol Adapter/A (#3042)  
(#6450348)
- o PC Network Adapter II/A  
(#90X6969)
- o PC Network Baseband Adapter/A  
(#90X6967)
- o Token Ring Network Adapter/A (#4790)  
(#69X8138)

## I/O DEVICES SUPPORTED INCLUDE:

## o IBM Enhanced Keyboards:

Language	Item Number	Feature Code
US English	1391401	#1401
French	1391402	#1402
German	1391403	#1403
Italian	1391404	#1404
Spanish	1391405	#1405
UK English	1391406	#1406
Danish	1391407	#1407
Hebrew	1391408	#1408
Norwegian	1391409	#1409
Portuguese	1391410	#1410
Swedish/Finnish	1391411	#1411
Swiss	1391412	#1412
Belgian	1391414	#1414
Arabic	1391490	#1490
Dutch	1391511	#1511

## o IBM Personal System/2 Displays:

- Monochrome Northern Hemisphere (8503-002) (6134300)
- Monochrome Southern Hemisphere (8503-003) (6134318)
- Colour Northern Hemisphere (8514-002) (75X5902)
- Colour Northern Hemisphere (8513-002) (6134302)



- Colour Southern Hemisphere (8513-003) (6134303)
- Colour Northern Hemisphere (8512-002) (6134328)
- Colour Southern Hemisphere (8512-003) (6134329)

o Printers:

- IBM 3812 Page Printer
- IBM 3852 2 Colour Inkjet Printer
- IBM 4201-1 Proprinter
- IBM 4201-2 Proprinter II
- IBM 4202-1 Proprinter XL
- IBM 4207-1 Proprinter X24
- IBM 4208-1 Proprinter XL24
- IBM 5201-1 Quietwriter model I
- IBM 5201-1 Quietwriter (With Arabic upgrade)
- IBM 5201-2 Quietwriter model II
- IBM 5202 Quietwriter III
- IBM 5216 WheelPrinter

o Plotters:

- IBM 6180 Colour Plotter
- IBM 6184 Colour Plotter
- IBM 6186 Colour Plotter
- IBM 7372 Colour Plotter

o Scanners:

- IBM 3117 Scanner
- IBM 3118 Scanner

o Other Media:

- IBM 4869 5.25' 360Kb External Diskette Drive
- IBM 3363 - A11 Optical Disk Storage Unit
- IBM 3363 - B01 Optical Disk Storage Unit

o Cables:

IBM Serial Adapter Cable (#0217)  
(6450217)

This is a 3 metre (10 feet) cable with a 9 pin D-shell connector to connect to the Dual Async Adapter/A and a 25 pin D-shell connector providing all the signals of an EIA

RS-232C interface which can connect the serial port to an appropriate serial device.

IBM Serial Adapter Connector (#0242)  
(6450242)

This connector is a 25 cms (10 inch) cable with a 9 pin D-shell connector to connect to the Dual Async Adapter/A and a 25 pin D-shell connector providing all the signals for an EIA RS-232 interface for connecting the serial port to an appropriate serial device which has its own cable.

IBM Communications Adapter Cable (#2067)  
(1502067)

This cable supports the attachment of a modem to the Multi-protocol Adapter/A or the system unit serial port connector. The cable is double shielded and approximately 3 metres (10 feet) in length. A wrap connector is provided to test the cable.

These three cables provide a CCITT interface for attachment to an external IBM modem or a PTT-mandatory modem complying with CCITT recommendation (1976) V24, V28, ISO standard 2110 and other relevant CCITT recommendations.

IBM Printer Adapter Cable (#5612)  
(1525612)

IBM Token Ring PC Adapter Cable (#3390)  
(6339098)

IBM PC Network Baseband Adapter Cable (#1229)  
(1501229)

IBM Cabling System PC Network Baseband Cable (#1227)  
(1501227)

## PUBLICATIONS

The IBM 8560 Standard publications incorporate most operator information with diagnostic and utility programs on the system Quick Reference diskette.

The following publication will be included with each system unit shipped:.

- o IBM 8560 Quick Reference and System Reference Diskette

IBM 8560 Quick Reference manual contains a wordless set-up sheet, an introduction to the computer, option installation instructions and troubleshooting instructions. It is designed for ease of use. One copy is provided with each 8560. Additional copies can be obtained at a price.

The Reference Diskette contains a system tutorial, diagnostics and utilities and is available in the following languages:

	ITEM #	FEATURE #
o Danish	75X5217	#5217
o Dutch	75X5216	#5216
o UK-English	75X5220	#5220
o US-English	95X3614	#3614
o Finnish	75X5215	#5215
o French	75X5210	#5210
o German	75X5211	#5211
o Italian	75X5212	#5212
o Norwegian	75X5218	#5218
o Portuguese	75X5219	#5219
o Spanish	75X5213	#5213
o Swedish	75X5214	#5214

Documentation available for purchase includes:.

- o IBM Personal System/2 Model 50/60 - Hardware Maintenance Library

These publications provide the information needed to isolate failures and identify the failing field replaceable unit.

The Hardware Maintenance Reference topics include:

- Product descriptions
- Diagnostic overviews
- Repair information

The Hardware Maintenance Service includes a Reference Diskette containing advanced diagnostics, and its topics

include:

- Diagnostic maps
- Parts catalogues
- Symptom-to-FRU index

Wrap plugs are not included

	ITEM #	FEATURE #
English UK	94X9817	#9817
French	94X9818	#9818
German	95X2502	#2502
Italian	95X2513	#2514
Spanish	95X2524	#2524

One copy of the HML will be provided free of charge to each dealer outlet.

#### TECHNICAL MANUALS

These manuals can be obtained at a price.

#### IBM PERSONAL SYSTEM/2 MODEL 50/60 TECHNICAL REFERENCE (#3385) (95X3385)

The Technical Reference manual is intended for use by engineers and programmers who are developing hardware and software for use with the IBM 8550 and IBM 8560 systems.

Major topics include: system bus interface, adapter design, system board components and operation, system board I/O controllers, power supply, 80287 Maths Co-Processor option, keyboard, instruction sets, characters and keystrokes and compatibility. BIOS listings and interface information are not included.

#### IBM PERSONAL SYSTEM/2 MODEL 50/60/80 TECHNICAL REFERENCE - ADAPTER AND I/O (#3289) (95X3289)

The Technical Reference - Adapters and I/O manual include functional specifications for programmers and others who want to understand the operations of adapters and I/O in greater detail. Included are: 20 Mb Fixed Disk Drive and Adapter, 44 Mb Fixed Disk Drive and Adapter, 70 Mb Fixed Disk Drive and Adapter, and

3.5' Diskette Drive. This manual can be obtained at a price.

IBM PERSONAL SYSTEM/2 AND PERSONAL COMPUTER BIOS INTERFACE MANUAL  
(#2260 ) (#68X2260)

The IBM Personal System/2 and Personal Computer BIOS Interface manual documents the BIOS interface for the Personal System/2 and IBM Personal Computers.

IBM PERSONAL SYSTEM/2 TECHNICAL REFERENCE - OPTIONS

These publications are intended for use by engineers and programmers who are developing hardware and software for use with the features. Each publication includes a description of the feature, programming considerations, interface information, connector information and specifications.

The Technical Reference for the following options are separately.

OPTION	ORDER NUMBER
Mouse	68X2229
Dual Async Adapter/A	68X2217
Multi-Protocol Adapter/A	68X2220
80286 Memory Expansion Option AND 80286 Memory Expansion Kit	95X3292

#### PACKAGING

The IBM 8560 will be packaged as follows:

ITEM 1: Systems Unit - Systems Unit, Keyboard cable 3 metres (9 feet) and multilingual Inventory Checklist

ITEM 2: Publication - Quick Reference including Reference Diskette

ITEM 3: Line Cord - System Unit Line Cord

ITEM 4: IBM Enhanced Keyboard

#### TECHNICAL INFORMATION

#### SPECIFIED OPERATING ENVIRONMENT

#### HARDWARE REQUIREMENTS

An analogue display must be selected.

- o Physical Specification models 041 and 071

- o Dimensions:

Width - 165 mm ( 6.5 inches) :318 mm (12.5 inches) with

feet

extended

Depth - 483 mm (19.0 inches)

Height - 597 mm (23.5 inches)

o Weight:

21.3Kg (47 lbs.) - (Models 041 and 071)

o Electrical:

90 - 137 VAC; 50 - 60 Hz

180 - 265 VAC; 50 - 60 Hz

o Ambient Air Temperature:

System on: 16 - 32 C (60 - 90 F)

System off: 10 - 43 C (50 - 110 F)

o Humidity:

System on: 8 - 80% RH

System off: 20 - 80% RH

o BTU Output:

1240 BTU/Hr

o Noise Level

Class 1 (office environment)

Idle Mean value at one metre m - 40 dB

Operating Mean value at one metre m - 46 dB

Operating Mean value at operator position m - 51 dB

o Licenses:

FCC Class B (electromagnetic radiation)

UL 478 Fifth Edition

TUV IEC 380

GOP VDE Class B

## SOFTWARE REQUIREMENTS

The following operating systems support the IBM 8560.

IBM PC DOS 3.3 supports the IBM Personal System/2 Model 60.

It is expected that this operating system will be used for personal productivity and general business applications in a single-tasking environment. Additionally, it is expected that individuals who wish to invest in the IBM Personal System/2 Model

60 hardware and later move to a multi-tasking or large memory protect environment will initially use IBM DOS 3.3.

IBM 3270 Workstation Program 1.1 will support the IBM 8560 system.

This Workstation Program provides 'multi-host' function 3270 emulation that will run with DOS 3.3 for the large account customer. It will allow up to six concurrent DOS application programs in addition to four host connectivity sessions and two notepads.

IBM Operating System/2 Standard Edition will support the IBM 8560 with concurrent execution of multiple applications of memory greater than 640 Kb.

This operating environment will be used on product configurations where multi-tasking and/or large memory capabilities are required for general business productivity and office applications.

IBM Operating System/2 Extended Edition will incorporate all of the facilities of Operating System/2 Standard Edition as well as additional communication services and data base management.

#### PREREQUISITES

The IBM Personal System/2 Model 60 requires an IBM Personal System/2 display 8503, 8512, 8513, 8514 or equivalent.

#### LIMITATIONS:

IBM 8560 supports a maximum of 15 Mb of memory.

The IBM 3363 Optical Disk Drive and the Internal Optical Disk Drive feature are not compatible with the IBM 80286 Expanded Memory Adapter.

#### COMPATIBILITY TEST RESULTS FOR THE IBM PERSONAL SYSTEM/2 MOD 60

Use the following guidelines to assist you in determining which particular IBM marketed products are supported by this system.

#### NOTE

At the time that these results were published, the European Software and associated Hardware has been tested with the IBM Personal System/2 Model 60 Type 041 only. Testing with the Type

071 will be done at a later date but different results are not expected.

Support in no way implies that the software or hardware has been modified in any way to take full advantage of the new features and facilities of this product.

IBM, through the medium of testing and evaluation, has attempted to establish the extent to which this product is able to exploit the Software and Hardware listed in this chart. Due to the ever increasing number of permutations of hardware and software, a totally definitive test is not possible. IBM, therefore, does not guarantee that additional incompatibilities will not occur.

#### NON IBM HARDWARE.

IBM has performed an analysis of the performance of these hardware products to determine whether in their current form as distributed by IBM they will function correctly on this product. IBM does not guarantee that equivalent results will be obtained on future or past releases of the subject hardware.

#### US AS-IS TEST RESULTS

All of the results in this chart relating to US AS-IS products have been reproduced from test results supplied by various IBM US Locations

#### KEY

With reference to the column headed 'Comp'

YES = The software or hardware performs correctly as defined above.

NO = The software or hardware will not function on the IBM 8560.

N/T = No test results are provided for this software or hardware in this document.

N/S = Not supported for use on the IBM Model 60

With reference to the column headed 'Type'

A = This product part number contains 3.5 inch media only.

C = This product part number contains 5.25 inch media only and has been tested after conversion to 3.5 inch media using



the DOS Copy Command with the 3.5 inch Diskette Drive option, within the limitations defined by the latest IBM Conditions of Use.

D = This product part number contains a DUAL Media package (3.5 inch and 5.25 inch) and has been compatibility tested in the 3.5 inch version only.

#### IBM PERSONAL SYSTEM/2 MODEL 60 ADAPTERS

TYPE-MODEL FTR CODE	PART NUMBER	DESCRIPTION	COMP	NOTE
#7161	59X7161	Display Adapter 8514/A	YES	
#xxxx	90X6969	PC Network Adapter II/A All Languages	YES	
#xxxx	90X6967	PC Network Baseband Adapter/A All Languages	YES	
#6292	69X6292	System 36/38 Work Station Emulation Adapter/A	N/T	
#2000	83X9702	IBM 3270 Connection	YES	
#4790	69X8183	IBM Token-Ring Network Adapter/A	YES	
#3042	6450348	Multi-Protocol Adapter/A	YES	10
#3033	6450347	Dual Async Adapter/A	YES	10

#1029	65X1925	3117 Scanner Adapter/A	YES	
#1028	65X1905	High Speed Adapter/A	YES	
TYPE-MODEL	PART	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#3006	6451001	80286 Memory Expansion Option	YES	
#3012	6451002	80286 Memory Expansion Kit	YES	
#3920	1497252	IBM Personal System/2 80286 Expanded Memory Adapter/A	YES	15
#3005	6450245	5.25 Inch External Diskette Drive Adapter/A	YES	

## DISPLAYS

TYPE-MODEL	PART	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#8512-001	6134327	IBM Personal System/2 Colour Display 110v	YES	
#8512-002	6134328	IBM Personal System/2 Colour Display 220v	YES	
#8503-001	6134299	IBM Personal System/2	YES	

		Monochrome Display 110v		
#8503-002	6134300	IBM Personal System/2	YES	
		Monochrome Display 220v		
#8513-001	6134301	IBM Personal System/2	YES	
		Colour Display 110v		
#8513-002	6134302	IBM Personal System/2	YES	
		Colour Display 220v		
#8514-001	75X5901	IBM Personal System/2	YES	
		Colour Display 110v		
#8514-002	75X5902	IBM Personal System/2	YES	
		Colour Display 220v		

## PRINTERS

TYPE-MODEL	PART	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#5152-003	8130053	IBM 80 CPS Graphics	YES	
		Printer 240v 50Hz		
#5152-004	8130054	IBM 80 CPS Graphics	YES	
		Printer 220v 50Hz		
#4201-001	6185836	IBM Proprinter	YES	1,11
		(Serial/Parallel		
		attached)		
#4202-001	56X9730	IBM Proprinter XL	YES	1,11

		(Serial/Parallel		
		attached)		
#4207-001	94X6042	IBM Proprinter X24	YES	1 11
				13
#4208-001	94X5873	IBM Proprinter XL24	YES	1 11
				13
#4201-002	87X9792	IBM Proprinter II	YES	1 11
				14
#5201-001	1341355	Quietwriter Printer	N/T	
		110v 60Hz		
#5201-001	1341356	Quietwriter Printer	YES	11
		240v 50Hz		
#5201-001	1341000	Quietwriter Printer	N/T	
		with Arabic Upgrade		
#5201-002	XXXXX	Quietwriter Printer	YES	2,11
		Model 2		
#5202-001	1318455	Quietwriter III Printer	YES	3,11
		110v		
#5202-001	1318456	Quietwriter III Printer	YES	3,11
		220v		
#5216-001	XXXXX	Wheelprinter - All	YES	
		Languages		
#3812-001	XXXXX	IBM Pageprinter	YES	

#3852-002	XXXXX	IBM Colour Inkjet	YES	
		Printer		

## PLOTTERS

TYPE-MODEL	PART NUMBER	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#6180	XXXXX	IBM Colour Plotter	YES	
#6184	XXXXX	IBM Colour Plotter	YES	
#6186	XXXXX	IBM Colour Plotter	YES	
#7372	XXXXX	IBM Colour Plotter	YES	

## SCANNERS

TYPE-MODEL	PART NUMBER	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#3117	XXXXX	IBM Scanner	YES	
#3118	XXXXX	IBM Scanner	YES	

## MISCELLANEOUS

TYPE-MODEL	PART NUMBER	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#3001	6450356	Math Co-Processor	YES	
		Option		

#XXXX	XXXXX	5.25 Inch External	YES		
		Diskette Drive			
#5003	1501224	Data Migration Facility	YES		
#XXXX	XXXXX	IBM Enhanced Keyboard -	YES		
		All Supported Languages			
#3363	XXXXX	IBM 3363 Optical Disk	N/T		
A11/B01		Drive			
#3063	6450350	IBM Mouse	YES	17	

## NON-IBM HARDWARE

TYPE-MODEL	PART	DESCRIPTION	COMP	NOTE
FTR CODE	NUMBER			
#		Visi-On Mouse	YES	
#		Logitech Mouse	YES	

## SOFTWARE COMPATIBILITY.

## PRODUCTIVITY - EUROPEAN LANGUAGE SOFTWARE

PROGRAM	VER	PART	TYPE	COMP	NOTES
		NUMBER			
DisplayWrite 2 ARA	1.00	6245301		N/T	
DisplayWrite 3 FRE	1.50	75X8700	D	YES	4
DisplayWrite 3 GER	1.50	75X8701	D	YES	4

DisplayWrite 3 ITA	1.50	75X8702	D	YES	4	
DisplayWrite 3 SPA	1.50	75X8703	D	YES	4	
DisplayWrite 3 UK	1.50	75X8710	D	YES	4	
DisplayWrite 3 DAN	1.50	75X8704	D	YES	4	
DisplayWrite 3 NOR	1.50	75X8705	D	YES	4	
DisplayWrite 3 SWE	1.50	75X8706	D	YES	4	
DisplayWrite 3 DUT	1.50	75X8707	D	YES	4	
DisplayWrite 3 FIN	1.50	75X8708	D	YES	4	
DisplayWrite 3 POR	1.50	6200380	C	YES	4	
DisplayWrite 4 FRE	1.00	95X1200	A	N/T		
DisplayWrite 4 GER	1.00	95X1201	A	N/T		
DisplayWrite 4 ITA	1.00	95X1202	A	N/T		
DisplayWrite 4 SPA	1.00	95X1203	A	N/T		
DisplayWrite 4 UK	1.00	75X8399	A	YES	17	
DisplayWrite 4 DAN	1.00	95X1204	A	N/T		
DisplayWrite 4 NOR	1.00	95X1205	A	N/T		
DisplayWrite 4 SWE	1.00	95X1206	A	N/T		

DisplayWrite 4 DUT	1.00	95X1207	A	N/T	
DisplayWrite 4 FIN	1.00	95X1208	A	N/T	
DisplayWrite 4 POR	1.00	95X1209	A	N/T	
Filing Assistant FRE	2.00	75X8483	D	YES	
PROGRAM	VER	PART	TYPE	COMP	NOTES
		NUMBER			
Filing Assistant GER	2.00	75X5460	D	YES	
Filing Assistant ITA	2.00	75X8508	D	YES	
Filing Assistant SPA	2.00	75X5488	D	YES	
Filing Assistant UK	2.00	67X3987	D	YES	
Filing Assistant DAN	2.00	75X5445	D	YES	
Filing Assistant NOR	2.00	75X8329	D	YES	
Filing Assistant SWE	2.00	75X5502	D	YES	
Filing Assistant DUT	2.00	75X5474	D	YES	
Graphing Assistant FRE	2.00	75X8453	D	N/T	
Graphing Assistant GER	2.00	75X4705	D	YES	5
Graphing Assistant ITA	2.00	75X8421	D	N/T	



Graphing Assistant SPA	2.00	75X4739	D	YES	5	
Graphing Assistant UK	2.00	67X4017	D	YES	5	
Graphing Assistant DAN	2.00	75X4688	D	N/T		
Graphing Assistant NOR	2.00	75X8356	D	YES	5	
Graphing Assistant SWE	2.00	75X4756	D	N/T		
Graphing Assistant DUT	2.00	75X4722	D	YES	5	
Planning Assistant FRE	2.00	75X8468	D	N/T		
Planning Assistant GER	2.00	75X4824	D	YES		
Planning Assistant ITA	2.00	75X8437	D	N/T		
Planning Assistant SPA	2.00	75X4525	D	YES		
Planning Assistant UK	2.00	67X4034	D	YES		
Planning Assistant DAN	2.00	75X4773	D	YES		
Planning Assistant NOR	2.00	75X8371	D	YES		
Planning Assistant SWE	2.00	75X4841	D	N/T		
Planning Assistant DUT	2.00	75X4807	D	YES		
Reporting Assistant FRE	2.00	75X8947	D	YES		

PROGRAM	VER	PART NUMBER	TYPE	COMP	NOTES
Reporting Assistant GER	2.00	75X5528	D	YES	
Reporting Assistant ITA	2.00	75X8523	D	YES	
Reporting Assistant SPA	2.00	75X5550	D	YES	
Reporting Assistant UK	2.00	67X4004	D	YES	
Reporting Assistant DAN	2.00	75X5516	D	YES	
Reporting Assistant NOR	2.00	75X8344	D	YES	
Reporting Assistant SWE	2.00	75X5561	D	YES	
Reporting Assistant DUT	2.00	75X5539	D	YES	
Writing Assistant FRE	2.00	75X8581	D	N/T	
Writing Assistant GER	2.00	75X5358	D	YES	6
Writing Assistant ITA	2.00	75X8535	D	N/T	

Writing Assistant SPA	2.00	75X5419	D	YES	6	
Writing Assistant UK	2.00	67X3965	D	YES	6	
Writing Assistant DAN	2.00	75X5398	D	N/T		
Writing Assistant NOR	2.00	75X5593	D	YES	6	
Writing Assistant SWE	2.00	75X5378	D	YES	6	
Writing Assistant DUT	2.00	75X5572	D	YES	6	
DisplayWrite Assistant UK	1.50	75X4652	D	YES		
Storyboard UK	1.11	62X8924	C	YES	5 7	
TopView UK	1.11	62X9511	C	NO		
TopView UK	1.12	95X2974	D	YES		
TopView PTK	1.11	6024454	C	YES		
PROGRAM	VER	PART	TYPE	COMP	NOTES	
		NUMBER				
Personal Editor II WW ENG	1.00	67X4051	D	YES	8	
PRODUCTIVITY - US AS-IS SOFTWARE						

PROGRAM	VER	PART NUMBER	TYPE	COMP	NOTES
Graphics Dev Toolkit	1.20	6280203	D	YES	
EZ-VU Editor	1.00	95X3278	D	YES	
EZ-VU II Dev. Facility	2.00	95X3276	D	YES	
EZ-VU II Runtime Facility	2.00	95X3277	D	YES	

## PROGRAMMING - EUROPEAN LANGUAGE SOFTWARE

PROGRAM	VER	PART NUMBER	TYPE	COMP	NOTES
APL/PC UK	2.00	6391329	C	YES	11

## PROGRAMMING - US AS-IS SOFTWARE

PROGRAM	VER	PART NUMBER	TYPE	COMP	NOTES
Basic Compiler	2.01	75X5329	D	YES	
C Compiler	1.00	6280072	D	YES	
Cobol Compiler	2.00	6280177	C	YES	
Macro Assembler	2.00	75X5331	D	YES	
Pascal	2.01	6024128	C	YES	

Professional Fortran	1.30	6280127	D	YES	
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OPERATING SYSTEMS - EUROPEAN LANGUAGE SOFTWARE

PROGRAM	VER	PART	TYPE	COMP	NOTES
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		NUMBER			
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DOS FRE	3.30	94X9579	D	YES	9
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DOS GER	3.30	94X9596	D	YES	9
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DOS ITA	3.30	94X9613	D	YES	9
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DOS SPA	3.30	94X9630	D	YES	9
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DOS UK	3.30	94X9573	D	YES	9
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DOS DAN	3.30	95X2703	D	YES	9
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DOS NOR	3.30	95X2756	D	YES	9
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DOS SWE	3.30	95X2721	D	YES	9
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DOS DUT	3.30	95X2685	D	YES	9
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DOS POR	3.30	95X2739	D	YES	9
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COMMUNICATIONS - EUROPEAN LANGUAGE SOFTWARE

PROGRAM	VER	PART	TYPE	COMP	NOTES
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		NUMBER			
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Bildschirmtext	1.10	2690623		N/S	
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Terminal Supp. GER					
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PC Local Area Network	1.10	62X9413	C	N/S	12	
Program UK						
PC Local Area Network	1.10	62X9422	C	N/S	12	
Program FRE						
PC Local Area Network	1.10	62X9439	C	N/S	12	
Program GER						
PC Local Area Network	1.10	62X9456	C	N/S	12	
Program ITA						
PC Local Area Network	1.10	62X9473	C	N/S	12	
Program SPA						
PC Local Area Network	1.20	95X3160	D	YES		
Program UK						
IBM PC Videotext	1.00	6095903		N/S		
Terminal Supp UK						
IBM PC 3270 Entry	1.10	75X1037		N/S		
Level Emul Prog UK						
PROGRAM	VER	PART	TYPE	COMP	NOTES	
		NUMBER				
IBM PC 3270 Entry	1.20	75X1085	D	N/T		
Level Emul Prog UK						
IBM PC 3270 Emul	2.00	62X9513		N/S		
Program UK						

IBM PC 3270 Emul	3.00	59X9969	D	YES	16	
Program WW ENG						
IBM 3270 PC Control	3.00	VARIOUS		N/S		
Program - All						
Languages						
IBM PC X25 Comms	1.10	8553544		N/S		
Support UK						
Mainframe Comm Assist	1.05	67X6480	D	YES		
UK						
COMMUNICATIONS - US AS-IS SOFTWARE						
PROGRAM	VER	PART	TYPE	COMP	NOTES	
		NUMBER				
APPC/PC	1.11	75X1047	A	YES		
Async Communication	2.00	6024032		N/S		
Support						
Enhanced 5250	2.12	74X8402	D	N/T		
Emulation Program						
IBM 3101 Emulation	1.00	6024042		N/S		
Program						
PC Network Protocol	1.00	6280061	D	YES		
Driver						

Token-Ring Network	1.10	83X7860	D	YES		
Bridge Program						
+-----+-----+-----+-----+-----+-----+						
Token-Ring Network	1.10	6476107	D	YES		
Mgr. Program						
+-----+-----+-----+-----+-----+-----+						

## NOTES:

1. If Code Page switching is required for a serial printer (eg. a Proprinter with a serial interface) then the following procedure should be used.
  - a. Use the normal DOS commands to enable Code Page switching for a parallel printer attached to one of the parallel ports (eg: LPT1:)
  - b. Issue a DOS command (as normal) to initialise the required serial port.
  - c. Issue a DOS command to redirect output from the parallel port to the required serial port (eg: MODE LPT1:=COM1: )
2. When issuing a DOS GRAPHICS command for use with a Quietwriter Model 2 printer, a printer type of 'GRAPHICS' should be specified. (ie: Use the command GRAPHICS GRAPHICS plus any required options.
3. The following points should be considered when implementing DOS Code Page switching commands on this printer:
  - a. Code Page switching is implemented by switching between font cartridges as opposed to being downloaded from the system unit. The user must ensure that the correct external font cartridge is placed in the external font position prior to performing the Code Page switch.
  - b. The printer does not have Code Page 865 and 860 external font cartridges, therefore Code Page switching to one of these two Code Pages is not supported.
  - c. If Code Page switching is required between two Code Pages, neither of which is 437, then two external font cartridges containing the desired Code Pages will be



required.

4. DisplayWrite 3 notes:
  - a. Prior to loading the application DOS should be in the same video mode that the application is configured for.
  - b. When running the Spellcheck Function with the IBM Personal System/2 Monochrome monitor, the character on which the cursor lies in a highlighted word is obscured.
5. This application has not been modified specifically for operation with the IBM Personal System/2 displays. Therefore in CGA compatible video modes all images may appear vertically elongated.
6. Any text marked for emphasis using Function Key 5 is not visible when using the IBM Personal System/2 Monochrome monitor in colour (mode CO80) mode, together with the default colour selection. It is suggested that to overcome this problem the Quick Menu/Setup Utility is used to change the colour definitions.
7. Prior to loading Storyboard (Story Editor or Picture Maker) the video mode must be CO80.
8. Personal Editor II notes:
  - a. When running Personal Editor II 1.00 in 'small font' mode the cursor is not visible.
  - b. When running Personal Editor II 1.00 in 'small font' mode only the default hardware code page is available.
9. If the DOS 437 font is loaded, a solid bar is available from the ASCII 124 code point and not a broken bar.
10. DOS 3.30 only supports Code Page switching on a single printer even though a second printer may be attached to the same system unit.
11. Ensure that the switches providing 'Carriage Return on Line Feed' function are set inactive for use with APL/PC 2.00.
12. Although this product is not supported under DOS 3.30, a limited test was carried out using the 5.25' product transferred on to 3.5' media. No problems were found other

than the Installation Aid should not be used, due to the changed product set.

13. This printer does not support the DOS Code Page switching function.
14. The DOS 4201.CPI file can be used with this printer. However, the DOS CHCP Command does not download either the NLQ 2 Font or the Fast Font.
15. A prerequisite for the use of this adapter is the IBM 3270 Workstation Program version 1.10.
16. When 'hot-keying' between an IBM Personal Computer DOS 3.3 application in a host session, the display must be in the same video mode as when this program was loaded.
17. The IBM Mouse cannot be used with DisplayWrite 4.

#### PLANNING INFORMATION

IBM is committed to the open architecture concept, that is, a standard programming interface for software developers and a standard means of attachment for manufacturers of cards as well as I/O peripheral devices.

This commitment to open architecture endeavours to protect our customers' investment in application software with future operating systems. It also continues to allow evolving opportunities for complementary products such as unique function cards and I/O devices, as well as communication capabilities for data base access and host interconnection.

While we will not make changes for the sake of change, we also will not hesitate to introduce change where it yields significant technological improvements, while minimising the impact on our customers' investments.

#### 3.5' DISKETTES

IBM 3.5' Diskette : Order Number 6404078 (2Mb Unformatted)

IBM 3.5' Diskette : Order Number 6404107 (1Mb Unformatted)

These diskettes are available from IBM supplies sources. They are contained in a slipcase of ten.

#### 1 MB DISKETTE

1 Mb Diskettes can be formatted at 720 Kb on the IBM Personal System/2 Models 30, 50, 60 and 80. They can be read and written on ALL models (at 720 Kb only).

#### 2 MB DISKETTE

2 Mb Diskettes can be formatted at 1.44 Mb on the IBM Personal System/2 Models 50, 60 and 80. They CANNOT be formatted at 720 Kb.

#### CUSTOMER RESPONSIBILITY

The IBM 8560 is designated as customer setup. Installation instructions are included with the system and features. CSU allowance is one day.

#### CABLE ORDERS:

There are no cabling requirements, other than for system power, keyboard and display connection. The cables are provided with the system unit and display and the instructions are provided as part of initial setup. Information on options that require cabling is included under the Cabling heading in the 'I/O Devices Supported' section above.

#### SET-UP:

Following the set-up instructions, the user attaches the keyboard and peripherals and installs the Reference Diskette. Power is then turned on and 'Set Configuration' is run after the computer has successfully completed its internal self-tests.

#### PROBLEM DETERMINATION:

If a failure is found at initial set-up and the Reference Diskette is in Drive A, an instruction will appear 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 system attempts to load one from the C fixed disk drive. If not found there, the user will be prompted, by an icon, to insert a diskette. A final default is provided through the use of a ROM-loaded BASIC interpreter as

explained in the Quick Reference manual.

#### SECURITY, AVAILABILITY AND CONTROL

The key lock, a standard feature on the IBM 8560 located on the side of the System unit, provides physical security for the system components. An additional level of security is provided by a user-invoked password capability which is resident in battery maintained CMOS RAM on the system board and invoked by the power-on self test routine in ROM. This function can be initiated during set-up as instructed by the Reference Diskette. User management is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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\*\*\*\*\* END OF DOCUMENT \*\*\*\*\*

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