FRONT

PICTURE 1

September 1990

This pamphlet contains procedures for isolating problems to a FRU, a Symptom-to-FRU Index, and a parts listing for the IBM Personal System/2 Model 65 SX.

This pamphlet is intended to be used with the IBM Personal System/2 $Hardware\ Maintenance\ Reference$ manual (part number 15F2190, form number, S15F-2190) and the IBM Personal System/2 $Hardware\ Maintenance\ Service$ manual (part number 15F2200, form number S15F-2200).

Part Number 84F8549

Form Number S15F-2196-01

IBM PS/2 Model 65 SX HMS Safety Information

FRONT_1 Safety Information

Refer to the Hardware Maintenance Service General Information pamphlet for the following information: General Safety Electrical Safety

Electrical Safety Safety Inspection Guide.

Second Edition (September 1990)

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FRONT_2 Special Notices

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IBM PS/2 Model 65 SX HMS General Checkout

1.0 General Checkout

The advanced diagnostic tests are intended to test *only* IBM (*) products. Non-IBM products, prototype cards, or modified options can give false errors and invalid system responses.

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Subtopics

- 1.1 How to Diagnose Combined FRUs
- 1.2 How to Use Error Messages

IBM PS/2 Model 65 SX HMS How to Diagnose Combined FRUs

1.1 How to Diagnose Combined FRUs

If an adapter or device consists of more than one FRU, an error code may be caused by any of the FRUs. Before replacing the adapter or device, remove the FRUs, one by one, to see if the symptoms change.

IBM PS/2 Model 65 SX HMS How to Use Error Messages

1.2 How to Use Error Messages

Use the error codes displayed on the screen to diagnose failures. If more than one error code is displayed, diagnose the first error code first. The cause of the first error code can cause false error codes to be displayed.

If there is not an error code on the screen, see if the error symptom is listed in the Symptom-To-FRU Index.

```
+---+
|001|
+---+
```

- Power-off the system and all external devices.
- Check all cables and power cords.
- Make sure there are no diskettes in the drives.
- Power-on all external devices.
- Power-on the system.

Note: Watch the screen for a POST error code. Write down any POST

```
error codes that are displayed, then press F1 to continue.
ARE ANY EXTERNAL SCSI DEVICES ATTACHED TO THE SYSTEM?
Yes No
     - |
    +---+
    002
    +---+
    Go to Step 005.
!
|003|
DID THE POWER-GOOD LIGHT ON ALL OF THE EXTERNAL DEVICES COME ON?
Yes No
    - !
    +---+
    004
    Go to the external devices service pamphlet.
+---+
|005|
DID YOU RECEIVE A POST ERROR CODE?
Yes No
    -
    +---+
   |006|
    Continue with Step 014.
- |
007
IS THE FIRST POST ERROR CODE WITHIN THE RANGE OF 02080000 1901 TO 02410000
190I?
Yes No
    - |
    +---+
    |008|
    Continue with Step 014.
 -
10091
- Start the Reference Diskette and verify that the "Enable" and "Disable"
 settings are correct. For more information, go to "Enable, Disable
 Settings" in topic 6.0. If you receive a warning on the screen
 regarding the "Keep" and "Remove" settings, follow the instructions on
  the screen before continuing.
DID YOU HAVE TO CORRECT ANY OF THE ENABLE AND DISABLE SETTINGS?
Yes No
     -
    +---+
    |010|
    Go to "Symptom-to-FRU Index" in topic 12.0. Before replacing any
    SCSI devices, verify there are no duplicate SCSI ID settings.
1011
```

IBM PS/2 Model 65 SX HMS How to Use Error Messages

```
- Remove the Reference Diskette and restart the system.
DID THE ERROR REMAIN?
Yes No
     - |
    |012|
    If you suspect another problem, or want to run system checkout,
    continue with Step 014.
1013
Go to "Symptom-to-FRU Index" in topic 12.0.
______
1014
- Insert your Reference Diskette.
- Press Ctrl+Alt+Del and check for the following responses:
 1. One or two short beeps.
2. IBM logo screen appears
     IBM logo screen appears.
DID YOU RECEIVE THE RESPONSES LISTED ABOVE?
Yes No
    - |
    +---+
   |015|
    Go to "Symptom-to-FRU Index" in topic 12.0.
    If that does not correct the problem, go to "Undetermined Problem" in
    topic 4.0.
-
1016!
- Advance to the Main Menu.
- Press Ctrl+A and run system checkout.
 Notes:
  1. If the system has incorrect keyboard responses, go to "Keyboard" in
     topic 9.0.
  2. If the printer has incorrect responses, go to "Printer" in
     topic 10.0.
  3. If the display has problems such as jittering, rolling, shifting, or
     being out-of-focus, go to "Display Self-Test" in topic 7.0.
  4. A minimum of 512KB of memory must be active to load the diagnostic
     tests.
IS THE LIST OF INSTALLED DEVICES CORRECT?
Yes No
     - |
    1017
    +---+
    Go to "Installed Devices List" in topic 2.0.
- |
|018|
- Run the diagnostic tests.
DID THE TESTS IDENTIFY A FAILURE?
Note: If the test stops and you cannot continue, replace the last device
      being tested.
Yes No
     - |
    |019|
    You may have an intermittent problem:
    Note: If you noticed an error symptom or if you received any POST
           error codes when the system was powered-on, go to
            "Symptom-to-FRU Index" in topic 12.0.
        Check for damaged cables and connectors.
```

IBM PS/2 Model 65 SX HMS How to Use Error Messages

Reseat all adapters, drives, and modules.
Check the system unit fan for proper operation.
Start an error log and run the tests multiple times.

+---+
|020|
+---+
Follow the action described on the screen. If that does not correct the problem go to "Symptom-to-FRU Index" in topic 12.0.

Installed Devices List

2.0 Installed Devices List

If an adapter or device is missing from the list, you may have one of the following conditions:

Your Reference Diskette does not contain the module of code required to support that device.

The missing device is a 5.25-Inch 360KB External Diskette Drive adapter or another unrecognizable adapter.

The missing device is defective.

An adapter is defective.

Subtopics

- 2.1 Automatic Configuration
- 2.2 Device Type
- 2.3 SCSI Devices
- 2.4 Non-SCSI Devices

Automatic Configuration

2.1 Automatic Configuration

Warning: A customized setup configuration (other than default settings) may exist on the system you are servicing. Running Automatic Configuration may alter those settings. Note the current configuration settings (using the View Configuration option) and verify that the settings are in place when service is complete. (For more information about configuration, refer to the <code>Hardware Maintenance Reference manual.</code>)

IBM PS/2 Model 65 SX HMS Device Type

2.2 Device Type

Run Automatic Configuration (see "Automatic Configuration" in topic 2.1 before continuing) and determine which type of device, SCSI or non-SCSI, is missing from the Installed Devices List, in Advanced Diagnostics, then continue with the following steps. (If SCSI and non-SCSI devices both are missing, go to "Undetermined Problem" in topic 4.0.)

IBM PS/2 Model 65 SX HMS SCSI Devices

2.3 SCSI Devices

The adapter supporting the missing device may be defective. If more than one SCSI adapter is installed, isolate them one at a time.

- Power-off the system and disconnect all internal and external cables attached to the SCSI adapter.
- 2. Terminate the adapter, as required.

Warning: See "Automatic Configuration" in topic 2.1 before continuing.

- 3. Power-on the system and run **Automatic Configuration**. If the adapter is not on the Installed Devices List, the adapter is defective. If the adapter is on the list, run the adapter diagnostic tests.
- 4. If the adapter fails the tests, replace it. If the adapter passes the tests, a different adapter may be defective.
- 6. Go to "Undetermined Problem" in topic 4.0 to find the problem.

IBM PS/2 Model 65 SX HMS Non-SCSI Devices

2.4 Non-SCSI Devices

The missing device is defective. If that does not correct the problem, go to "Undetermined Problem" in topic $4.0\,$.

Note: If the number of diskette drives shown on the list is incorrect, an error can occur during the tests. Restart the system and verify that the drive information on the **Set Configuration** menu is correct, then continue testing.

IBM PS/2 Model 65 SX HMS Power-On Password

3.0 Power-On Password

To service a system with an active, unknown, power-on password, do the following:

- Power-off the system.
 Unplug the speaker connector, turn it over (180°) and plug it back in.
 Power-on the system.

Undetermined Problem

- 4.0 Undetermined Problem
- 1. Power-off the system. 2. Remove or disconnect one of the following adapters or devices:

Non-IBM devices

Any external device (modem, printer, or mouse)

Any adapter

Fixed-disk or diskette drive

Memory-module kits

Math coprocessor

- 3. Power-on the system.
- 4. If the symptom remains, repeat steps 1, 2, and 3 until you find the failing adapter or device.
- 5. If all adapters and devices have been removed and the problem remains, check the power supply voltages. If the voltages are correct, replace the system board. If the voltages are not correct, replace the power $% \left(1\right) =\left(1\right) \left(1\right$ supply.

IBM PS/2 Model 65 SX HMS Power Supply Voltages / Fan

5.0 Power Supply Voltages / Fan

If the voltages are not correct, or if the fan is not running, replace the power supply.

	Vdc Maximum	•	Pin	
	· 			
-9.0	-15.0	2	9	
+9.0	+15.0	2	3	
+3.7	+6.2	2	1	
+3.7 *	+6.2 *	B	D	
+9.0 *	+15.0 *	C	A	
			ĺ	

^{| *} Disconnect the 15-pin connector from the system board before taking | this reading. |

PICTURE 2

IBM PS/2 Model 65 SX HMS Enable, Disable Settings

6.0 Enable, Disable Settings

To verify that the "Enable" and "Disable" settings are correct, select **Set** and View SCSI Device Configuration from the Set Configuration menu, and determine if there are any "Presence Error Reporting" devices listed. The settings must be as follows:

Devices connected to the system must be set to "Enabled." Devices listed but not connected must be set to "Disabled."

Change the settings by pressing the F5 key; then save them by pressing the F10 key.

IBM PS/2 Model 65 SX HMS Display Self-Test

7.0 Display Self-Test

- Power-off the system unit and display.
 Disconnect the display signal cable.
 Power-on the display.

- 4. Turn the contrast to its maximum position.
- 5. Turn the brightness control to the center detent position.

The screen should be white with a black margin, as described below (some shading may occur near the edges). If the screen differs, replace the display. If the display passes the test, replace the display adapter or system board that the display is attached to.

8503, 8512, 8513, 8514, 8515: 2-20 mm (0.08-0.79 in.) wide on one orboth sides.

8506: 2-35 mm (0.08-1.38 in.) wide on the top, or bottom, or both. **8507, 8508:** 2-20 mm (0.08-0.79 in.) wide on the top, or bottom, or both.

IBM PS/2 Model 65 SX HMS Display Adapter 8514/A

8.0 Display Adapter 8514/A

PICTURE 3

IBM PS/2 Model 65 SX HMS Keyboard

9.0 Keyboard

+---+ |001|

- Power-off the system.
- Disconnect the keyboard cable from the keyboard.
- Power-on the system and check the keyboard cable connector for the voltages shown. All voltages are $\pm\ 5\%\,.$

PICTURE 4

IBM PS/2 Model 65 SX HMS Printer

10.0 Printer

- 1. Make sure the printer is properly connected and powered-on. 2. Run the printer self-test.

If the printer self-test does not run correctly, the problem is in the printer. Refer to the printer service manual.

If the printer self-test runs correctly, install a wrap plug on the parallel port and run the advanced diagnostic tests to determine which of the following FRUs is failing:

System board Parallel adapter Printer cable.

IBM PS/2 Model 65 SX HMS Memory

11.0 Memory

Note: Power-off the system before removing or replacing parts.

00011000 indicates a system board parity check error. Replace the memory modules. If that does not solve the problem, replace the system board.

00011100 indicates a memory adapter parity check error. Remove the memory adapters one at a time until the error disappears, then replace the last memory adapter removed.

201 memory errors display as ${\tt AAAAAA}$ BBBB 201. Use the following table to identify the possible failing FRUs.

AAAAA	Possible FRUs
000000 to 1FFFFF	1. System Board Memory 2. System Board
200000 and above	 1. Memory on an adapter 2. Memory adapter

IBM PS/2 Model 65 SX HMS Symptom-to-FRU Index

12.0 Symptom-to-FRU Index

Error symptoms and the FRUs that might be responsible for the failure are listed in the "Symptom-to-FRU index." The most-likely failing FRU is listed first.

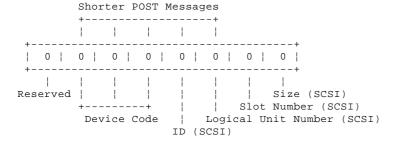
If the system displays an error message and gives an incorrect audio response, start with the FRUs listed for that error message. An "X" in an error message can be any number.

Note: If an error message is not listed, there is a device installed that requires an additional diskette or service manual. Refer to the diskette or service manual for that device.

How to Read POST Error Messages

POST error messages are displayed on the screen as three, four, five, or eight digits. The error messages that can be displayed as shorter POST messages are highlighted in this index. Some digits will represent different information for SCSI errors versus non-SCSI errors.

The following example shows which digits display the shorter POST error messages and also defines the SCSI information in an eight-digit error message.



All SCSI devices are set to a different SCSI ID. Duplicate SCSI ID settings can generate a false error message. Use the SCSI ID to determine whether the error message is coming from an internal or an external device.

Symptom/Error	FRU/Action
One or more keys do not work	Keyboard Keyboard Cable System Board
Changing colors	Display
No beep and the system is otherwise functional (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	Speaker System Board
No beep and the system is nonfunctional (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	System Board Power Supply Speaker Memory Module Kit
Continuous beep (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	Power Supply System Board
Repeating short beeps (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	Keyboard (stuck key) System Board Power Supply
One long and one short beep (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	Display Option Adapter System Board Power Supply
One long and two short beeps (See "Display Self-Test" in topic 7.0 before replacing any FRUs.)	Display Option Adapter System Board Power Supply Display
One or two short beeps and a blank	Display Option Adapter

	Symptom-to-FRU Index
or unreadable display (See "Display Self-Test" in topic 7.0 before replacing any FRUs.)	System Board Display Power Supply
One short beep and load diskette icon or a program loads from the fixed disk drive	Diskette Drive System Board Power Supply Diskette Drive Cable
Printer Problem (See "Printer" in topic 10.0 before replacing any FRUs.)	Printer System Board Option Adapter Printer Cable
000110XX (See "Memory" in topic 11.0 before replacing any FRUs.)	System-Board Memory- Module Kit System Board
000111XX (See "Memory" in topic 11.0 before replacing any FRUs.)	Memory Expansion Kit Memory Expansion Adapter
000112XX, 000113XX (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	Any Adapter System Board
000161XX	Real-Time Clock Module System Board
000 162 XX (Verify the "Enable, Disable Settings" in topic 6.0 are correct before replacing any FRUs.)	Any Adapter System Board
000163XX, 000164XX, 000165XX (If setting the configuration does not solve the problem, see "Installed Devices List" in topic 2.0.)	Set Configuration/Features 2KB NV-RAM Module System Board
000 166 XX	Any Adapter
0001xxxx (not listed above)	System Board
±	.+
000 201 XX (See "Memory" in topic 11.0 before replacing any FRUs.)	System-Board Memory- Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board
(See "Memory" in topic 11.0 before	Module Kit or Memory Expansion Adapter or Memory Expansion Kit
(See "Memory" in topic 11.0 before replacing any FRUs.)	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit
(See "Memory" in topic 11.0 before replacing any FRUs.)	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit System Board Adapter Memory Memory Adapter System Board Memory
(See "Memory" in topic 11.0 before replacing any FRUs.) 00020xxx (slot 0) 00020xxx (slot 1 - 3) xxxxx xxxx 201 (See "Memory" in topic 11.0 before	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit System Board Adapter Memory Memory Adapter System Board Memory System Board Memory System Board Adapter Memory Adapter Memory
<pre>(See "Memory" in topic 11.0 before replacing any FRUs.) 00020XXX (slot 0) 00020XXX (slot 1 - 3) XXXXXX XXXX 201 (See "Memory" in topic 11.0 before replacing any FRUs.) 000215XX, 000216XX, 000221XX (See "Memory" in topic 11.0 before</pre>	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit System Board Adapter Memory Memory Adapter System Board Memory System Board Adapter Memory System Board Adapter Memory System Board Adapter Memory System Board System Board Memory Adapter System Board Memory Memory Adapter
(See "Memory" in topic 11.0 before replacing any FRUs.) 00020XXX (slot 0) 00020XXX (slot 1 - 3) XXXXXX XXXX 201 (See "Memory" in topic 11.0 before replacing any FRUs.) 000215XX, 000216XX, 000221XX (See "Memory" in topic 11.0 before replacing any FRUs.)	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit System Board Adapter Memory Memory Adapter System Board Memory System Board Adapter Memory System Board Adapter Memory System Board System Board System Board System Board System Board Memory Memory Adapter System Board System Board System Board System Board System Board
(See "Memory" in topic 11.0 before replacing any FRUs.) 00020XXX (slot 0) 00020XXX (slot 1 - 3) XXXXXX XXXX 201 (See "Memory" in topic 11.0 before replacing any FRUs.) 000215XX, 000216XX, 000221XX (See "Memory" in topic 11.0 before replacing any FRUs.) 000301XX, 000302XX (See "Keyboard" in topic 9.0 before replacing any FRUs.)	Module Kit or Memory Expansion Adapter or Memory Expansion Kit System Board System-Board Memory- Module Kit System Board Adapter Memory Memory Adapter System Board Memory System Board Adapter Memory System Board Adapter Memory System Board Adapter Memory Memory Adapter System Board Keyboard Keyboard Keyboard Keyboard Keyboard Keyboard

IBM PS/2 Model 65 SX HMS Symptom-to-FRU Index

before replacing any FRUs.)	Symptom-to-FRU Index
000 401 XX	System Board
000 602 XX	Defective Diskette
000 6xx xx	Diskette Drive System Board Diskette Drive Cable Power Supply Fixed Disk Drive
000 7xx xx	Math Coprocessor System Board
00 1102 XX, 00 1106 XX	System Board Any Serial Device
00 1107 XX	Communications Cable System Board
00 1108 xx, 00 1109 xx	System Board Any Serial Device
00 11xx xx (not listed above)	System Board
00 1202 XX, 00 1206 XX	Dual Async Adapter/A Any Serial Device
00 1207 XX	Communications Cable Dual Async Adapter/A
00 1208 XX, 00 1209 XX	Dual Async Adapter/A Any Serial Device
00 12XX XX (not listed above)	Dual Async Adapter/A System Board
00 14XX XX (See "Printer" in topic 10.0 before replacing any FRUs.)	Printer System Board
00 2401 XX, 00 2402 XX (changing colors)	Display System Board
00 2401 XX, 00 2402 XX (no changing colors)	System Board Display
 00 2409 XX	Display
00 2410 XX	System Board
00 4611 xx, 00 4630 xx	Multiport/2 Interface Board Multiport/2 Adapter
00 4612 XX, 00 4613 XX, 00 4640 XX, 00 4641 XX	Memory Module Package Multiport/2 Adapter
00 4650 XX	Multiport/2 Interface Cable
00 46xx xx	Multiport/2 Adapter Interface Board Memory Module Package
00744XXX, 00745XXX, 00746XXX, 00747XXX (See "Display Adapter 8514/A" in topic 8.0 to determine failing module.)	 8514/A Memory Module
00 74xx xx (not listed above)	 Display Adapter 8514/A System Board
00 8601 XX, 00 8602 XX	Pointing Device
00 8603 XX	System Board
00 8604 XX	 System Board Pointing Device

IBM PS/2 Model 65 SX HMS Symptom-to-FRU Index

	Symptom-to-FRU Index
00 96xxxx 	SCSI Adapter (with cache) SCSI Device System Board
010002XX, 010006XX	Multiprotocol Adapter/A Any Serial Device
010007xx 	Communications Cable Multiprotocol Adapter/A
010008xx, 010009xx	Multiprotocol Adapter/A Any Serial Device
0100xxxx (not listed above)	Multiprotocol Adapter/A System Board
010102XX, 010106XX, 010108XX, 01010 9XX	Modem Adapter/A Any Serial Device
0101XXXX (not listed above)	Modem Adapter/A System Board
0107xxxx 	1.2MB 5.25 Inch Internal/External Drive 5.25 Inch Adapter
0 112XX XX 	SCSI Adapter (without cache) SCSI Device System Board
016500xx	6157 Tape Attachment Adapter
016520XX	6157 Streaming Tape Drive
0 16540 XX	6157 Streaming Tape Drive 6157 Tape Attachment Adapter
0166XXXX, 0167XXXX (For diagnostic information see "IBM Token-Ring Network Adapter/A	Token-Ring Network Adapter System Board
Installation and Testing Instructions".)	
Installation and Testing	
Installation and Testing Instructions".) +	Memory Adapter
Installation and Testing Instructions".) 0194xxxx	Memory Adapter System Board SCSI Fixed Disk Drive (60MB) SCSI Fixed Disk Drive (80MB) SCSI Fixed Disk Drive (120MB) SCSI Fixed Disk Drive (160MB) SCSI Fixed Disk Drive (320MB) SCSI Fixed Disk Drive (Size Undetermined) SCSI Adapter
Installation and Testing Instructions".) 0194xxxx	Memory Adapter System Board SCSI Fixed Disk Drive (60MB) SCSI Fixed Disk Drive (80MB) SCSI Fixed Disk Drive (120MB) SCSI Fixed Disk Drive (160MB) SCSI Fixed Disk Drive (320MB) SCSI Fixed Disk Drive (Size Undetermined) SCSI Adapter SCSI Cable

IBM PS/2 Model 65 SX HMS How To Use This Parts Catalog

13.0 How To Use This Parts Catalog

INDEX REFERENCE NUMBERS: Refer to the illustrations for index reference
numbers listed in the left margin of the parts listing.

SIMILAR ASSEMBLIES: If two assemblies contain a majority of identical parts, they are broken down on the same list. Parts peculiar to one or the other of the assemblies are listed separately and identified by description.

 ${\tt AR\colon}$ (As Required) indicates that the quantity is not the same for all machines.

 ${\bf R}\colon$ (Restricted) indicates that the part has a restricted availability.

INDENTURE the indenture is marked by a series of dots located before the parts description. The indenture indicates the relationship of a part to the next higher assembly. For example:

Indenture Relationship of Parts

(No dot)	Main Assembly
(One dot)	Detail parts of a main assembly
(One dot)	Subassembly of the main assembly
(Two dot)	Detail part of a one-dot
	subassembly
(Two dot)	Subassembly of a one-dot
	subassembly

IBM PS/2 Model 65 SX HMS System Overview

14.0 System Overview

PICTURE 5

Parts

15.0 Parts

15.0 P	arts		
Index	System Unit Exterior		
1	Handle	72X8569	
2	Bezel/Logo (R)(Exchange Only)	72X8549	
4	1/3 High Diskette-Drive Bezel	34F0030	
5	Base Foot	72X8565	
9	Cover	64F0160	
15	System Base	64F0159	
	6 mm Screw		
	Flat Washer		
	Spring Washer (Rear Foot)		
	Detent (Front Foot)	7070525	
	Blank Diskette Drive Bezel Cover-Lock Assembly	72X8535 72X8557	
	Cover-Lock Kit	72X8577 72X8572	
	Ring (Break-Away)	/2805/2	
	Pawl		
	Feature Blank Bezel	72X8560	
	(for CD-ROM Drive)		
	,		
Index	System Unit Interior		
3	Diskette Drive (see Diskette Driv	zes)	
6	Speaker	57F1437	
7	Fixed-Disk Drive Support Structur		
8	Adapter(see Options and Adapters)		
10	Fixed-Disk Drive (see Fixed Disk		
11	Fixed-Disk Drive Support	72X8563	
	Structure Bracket	0.4-0.00	
12	1/3-High Diskette Drive	34F0032	
1.2	Support Structure	F751444	
13 14	System Board, 16 MHz	57F1444 57F1600	
14	Power Supply/Fan Assembly Fuse (3 Amp.)	72X8561	
	Real-Time Clock Module	8509237	
	1MB Memory Module Kit	90X8624	
	2MB Memory Module Kit	90X8625	
	4MB Memory Module Kit	87F9980	
	2KB NV-RAM Module	64F0722	
	80387SX (**) Math Coprocessor, 16	S MII -	33F8160
	oosovan () nach coprocessor, re) MHZ	
	outsorbin () mach coprocessor, re	O MHZ	
	laneous Kits		
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Parts

Fixed Disk Drives

60MB Fixed Disk Drive (SCSI)	6128296
80MB Fixed Disk Drive (SCSI)	56F8854
120MB Fixed Disk Drive (SCSI)	6128298
160MB Fixed Disk Drive (SCSI)	56F8851
320MB Fixed Disk Drive (SCSI)	85F0011
Fixed Disk Drive Slide Tray	34F0031
Fixed Disk Drive Cables (see DASD Cables)	

CD-ROM

	Internal CD-ROM Drive	81F7930
-	Terminators (two) (for 81F7930)	59F3530
Ι	Rail Kit (for 81F7930)	34F0041
(Ground Wire - Included in Misc Parts Kit	72X8579
]	Power Cable (single)	72X8521
	Signal Cable (single)	34F0043

DASD Cables

PICTURE 6

Index	DASD Cables		
1	1/3 High Diskette Drive Cable	34F0036	
2	Power Cable (single)	72X8521	
2	Power Cable (dual)	34F0034	
3	Fixed Disk Drive Ground Wire,		
	see Miscellaneous Parts Kit (Sys		
4	1.2MB Internal Cable (for 15F6912) 15F6914	
5	(SCSI) Signal Cable		
_	(supports 2 devices)	64F0154	
5	(SCSI) Signal Cable	0.4-0.00	
_	(supports 3 devices)	34F0035	
5	(SCSI) Signal Cable	C 4 TO 1 F F	
	(supports 4 devices)	64F0155	
	and Adapters		
_	y Adapter 8514/A	1887971	
	nory Module (for 1887971)	1887708	
	sync Adapter/A	34F0008	
	Disk Drive Adapter (ESDI)	15F6865	
	Disk Drive Adapter (ST506)	72X8540	
	al Tape Backup Unit	30F5273	2450000
_	eter Cable (with 34 pin Berg Connector		34F2990
_	c Cover Plate	30F5275	
	natted Blank Tape	30F5277	
_	orotocol Adapter/A .me Interface Coprocessor Multiport/2	90X8995	
	ort RS232-C Electrical Interface Boa:		09F1889
_	ort RS232-C Electrical Interface Boa:		09F1957
_	-port RS232-C RS422-A	09F1890	0511557
	ectrical Interface Board	031 103 0	
	KB Memory Module Package	16F2267	
	protocol Interface Cable (for 09F1888)	00F5524
_	Reader Keypad	1393515	
Screen	Reader Keypad Cable	72X8537	
SCSI A	dapter/A With Cache	85F0000	
Termin	ator, External (for 85F0000)	33F8464	
Termin	ator, Internal (for 85F0000)	34F0025	
SCSI A	dapter/A Without Cache	85F0002	
	ator, (for 85F0002)	57F2870	
Token-	Ring Network Adapter/A	83X7488	
	Ring 16/4 Adapter/A	16F1144	
	Ring Adapter/A RPL	83X9180	
	00 Modem Adapter/A	34F0006	
	ications Cable (for 34F0006)	8285985	
	00/2400 Modem Adapter/A	65X1253	
	ications Cable (for 65X1253)	94X1540	
	Connection	74F3464	
	Emulation Adapter	69X6281	
	ape Adapter	92X1459	
	Expanded Memory Adapter/A	1497253	
	KB Memory Module (for 1497253) Memory Module (for 1497253)	1497256	
	8 Memory Module (for 1497253) 80286 Memory Expansion Option	74X8637 15F8292	
Z-OMB	50200 Memory Expansion Operon	1310232	

-	rta	

1MB Memory Module (for 15F8292)	90X8624
2MB Memory Module (for 15F8292)	90X8625
80286 Memory Expansion Adapter	72X8532
Memory Module (for 72X8532)	61X8906
80387SX Math Coprocessor, 16 MHz	33F8160

Keyboards / Mouse

keyboards / Mouse	
Belgian	1392012
Canadian French	1392011
Danish	1392005
Dutch	1392013
French	1392000
German	1392001
Italian	1392002
Norwegian	1392007
Portuguese	1392008
Spanish	1392003
Spanish / Latin	1392015
Swedish	1392009
Swiss / French / German	1392010
U.K. English	1392004
U.S. English	1392090
101/102-Key Keyboard Cable	72X8537
Mouse	61X8923
Mouse Ball and Pop-Off Retainer	33F8461
Mouse Ball and Twist-Off Retainer	33F8462

8503 Monochrome Display (with Tilt/Swivel Stand)

110/120 Vac			68X3045
220/240 Vac	(Northern	Hemisphere)	68X3046
220/240 Vac	(Southern	Hemisphere)	72X7878
Tilt/Swivel	Stand		68X3061

8506 Monochrome Display (with Tilt/Swivel Stand) 110/125 Vac (US/Canada) 39F8087

110/125	vac	c (US/Cai	nada)		39F8U8/	
110/125	or	200/240	Vac	(Northern	Hemisphere)	39F8088
110/125	or	220/240	Vac	(Southern	Hemisphere)	39F8089

8507 Monochrome Display (with Tilt/Swivel Stand)
110/120 or 220/240 Vac (Universal Model) 6247808

8508 Monochrome Display (with Tilt/Swivel Stand)

				•			
110/125	Vac	c (US/Car	nada)			6247838	
110/125	or	200/240	Vac	(Northern	Hemisphere)		39F8067
110/125	or	220/240	Vac	(Southern	Hemisphere)		39F8068

8512 Color Display (without Tilt/Swivel Stand)

7					
	110/120	Vac			61X8924
	220/240	Vac	(Northern	Hemisphere)	61X8928
	220/240	Vac	(Southern	Hemisphere)	61X8927
	Tilt/Swi	vel	Stand		61X8925

8513 Color Display (with Tilt/Swivel Stand)

110/120 Vac			68X3088
220/240 Vac	(Northern	Hemisphere)	72X7870
220/240 Vac	(Southern	Hemisphere)	72X7877
Tilt/Swivel	Stand		68X3061

8514 Color Display (without Tilt/Swivel Stand)

110/120 Vac			75X5945
220/240 Vac	(Northern	Hemisphere)	75X5946
220/240 Vac	(Southern	Hemisphere)	75X5947
Tilt/Swivel	Stand		75X5907

8515 Color Display (with Tilt/Swivel Stand)

Model	001 (90/137	Vac, U.S. and Canada)	
with	tilt/swivel	and packaging set	07F6650
Model	002 (90/265	Vac, Universal voltage)	
with	tilt/swivel	and packaging set	07F6652
Model	A01 (90/265	Vac) with	

IBM PS/2	Parts
tilt/swivel and packaging set Shipping material: Box	07F6651 16F0188
Front cushion Rear cushion	
Power cable, 1.8 (6 ft), U.S.	38F3968
Alternative to part number 38F3968 above	6952301
Tools and Miscellaneous	
Tri-Connector Wrap Plug	72X8546
Wrap Plug	59X4115
(for 6157 Tape Attachment Adapter	
Wrap Plug	6165899
(for Token-Ring Network Adapter/A	
Wrap Plug (for Realtime Interface	16F2478
Coprocessor Multiport/2) 78-pin	
Wrap Plug (for Multiport Interface Cable) Direct Connect 25-pin, ports 0 and 1	6425494
Wrap Plug (for Multiport Interface Cable) Direct Connect 25-pin, ports 2 through 7	09F1799
Plastic Envelope (for Wrap Plug)	6138013
Data Migration Facility	61X8936
Tool (for Key Cap Removal)	6110464
Snap Tool (for Snap Removal)	72X8547
Shipping Carton (Type 8565)	72X8591

Power Cords

PICTURE 7

Index	Power Cords	
	Warning: Use the power cord	
	certified for your country.	
1	Power Cord, Displays	
	(except 8514), for:	68X3071
	Colombia, U.S., Venezuela	
2	Power Cord, System Unit, for:	62X1045
	Colombia, U.S., Venezuela	
3	Power Cord, System Unit, for:	8529341
	Hong Kong, Singapore, U.K.	
4	Power Cord, System Unit, for:	8529281
	France, Germany, Spain	
5	Power Cord, System Unit, for:	8529282
	Italy	
6	Power Cord, System Unit, for:	8529284
	Australia, New Zealand	

Supplemental Part Numbers:

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Printed in the United States of America

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