FRONT

PICTURE 1

September 25, 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 80.

This pamphlet is intended to be used with the IBM Personal System/2 <code>Hardware Maintenance Reference</code> manual (part number 15F2190, form number S15F-2190-00) and the IBM Personal System/2 <code>Hardware Maintenance Service</code> manual (part number 15F2200, form number S15F-2200-00).

Part Number 84F8547

Form Number S15F-2199-01

IBM PS/2 Model 80 HMS Safety Information

FRONT_1 Safety Information

Refe	fer to the Hardware Maintenance Servi	ce General	Information	pamphlet	for
the	e following information:				
	General Safety				
	Electrical Safety				
	Safety Inspection Guide.				

Second Edition (September 1990)

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FRONT_2 Special Notices

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Personal System/2.

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IBM PS/2 Model 80 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 80 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 80 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
    1
    +---+
   |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 and 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 80 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. If a minimum of 512KB of memory is not active, the diagnostic tests
     cannot be loaded.
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|
    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.
    You may have an intermittent problem:
       Check for damaged cables and connectors.
```

IBM PS/2 Model 80 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

Ιf	an	adapter	or	device	is	missing	from	the	list,	you	may	have	one	of	the
fol	lov	ving cond	dit:	ions:											

- Your Reference Diskette does not contain the module of code required to support that device.
- $\hfill\Box$ 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

IBM PS/2 Model 80 HMS 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 80 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 80 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, in Advanced Diagnostics, 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.
- 5. Reconnect the cables to the SCSI adapter, then terminate the adapter, as required.
- 6. Go to "Undetermined Problem" in topic 4.0 to find the problem.

IBM PS/2 Model 80 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 80 HMS Power-On Password

3.0 Power-On Password

To service a system with an active, unknown, power-on password, do one of the following, depending on which battery and speaker assembly is installed:

- $\hfill\Box$ On the type with two pins on the side of the speaker assembly, short the pins together.
- $\ \square$ On the type with no pins, insert a meter lead into the connector (protruding from under the battery) and short the other end of the lead to frame ground.

Power-on the system and leave the assembly shorted until completion of POST. This deactivates the password.

IBM PS/2 Model 80 HMS **Undetermined Problem**

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

□ Non-IBM devices

☐ Any external device (modem, printer, or mouse)

Math coprocessor

- Any adapter
- $\hfill\Box$ Fixed-disk or diskette drive
- Memory-module kits.
- 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 80 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 Minimum			Pin
	İ		
-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
	1		

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

PICTURE 2

IBM PS/2 Model 80 HMS Enable and Disable Settings

6.0 Enable and 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 bu	t no	ot c	onnected	d 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 80 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 detent to the center 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 the system board.

- **8503, 8512, 8513, 8514, 8515:** 2-20 mm (0.08-0.79 in.) wide on one or both sides.
- **8506:** 2-50 mm (0.08-1.79 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 80 HMSDisplay Adapter 8514/A

8.0 Display Adapter 8514/A

PICTURE 3

IBM PS/2 Model 80 HMS Keyboard

|003|

Replace the keyboard.

IBM PS/2 Model 80 HMS Printer

10.0 Printer

- Make sure the printer is properly connected and powered-on.
 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 FRU $\,$ failed.

If the advanced diagnostic tests do not detect a failure, replace the printer cable. If the problem remains, replace the system board.

IBM PS/2 Model 80 HMS Memory

11.0 Memory

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

000**110**00 indicates a system-board parity-check error. If two system-board memory-expansion kits are installed, remove the kit in the connector labeled either J15 or J8. If the problem disappears, replace the kit. If the problem remains, replace the kit in the connector labeled either J16 or J9. If that does not solve the problem, replace the system board.

000**111**00 indicates a memory-adapter parity-check error. Remove the memory adapters from the expansion slots, one at a time, until the error goes away. Remove the memory-expansion kits from the last adapter removed. Install the memory-expansion kits, one at a time until the error returns. Replace the last memory-expansion kit installed. If that does not solve the problem, replace the adapter.

00021500 indicates a failing system-board memory-expansion kit in the connector labeled either J15 or J8. Replace the kit. If that does not solve the problem, replace the system board.

00021600 or 00022100 indicates a failing system-board memory-expansion kit in the connector labeled either J16 or J9. Replace the kit. If that does not solve the problem, replace the system board.

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 you are unable to correct the problem using this index, go to "Undetermined Problem" in topic 4.0.

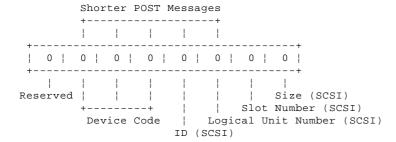
If the system displays an error message and gives an incorrect audio response, start with the FRUs listed for that error message. An "X" in an error message can be any number.

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 system is otherwise functional (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	 Speaker System Board
No beep and system is nonfunctional (See "Undetermined Problem" in topic 4.0 before replacing any FRUs.)	System Board Power Supply
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 Adapter System Board Power Supply

One long and two short beeps (See "Display Self-Test" in topic 7.0 before replacing any FRUs.)	Display Adapter System Board Power Supply Display
One or two short beeps and a blank or unreadable display (See "Display Self-Test" in topic 7.0 before replacing any FRUs.)	 Display Adapter System Board Display Power Supply
One short beep and diskette prompt or a program loads from the fixed disk drive	 Diskette Drive System Board Power Supply
000 110 XX (See "Memory" in topic 11.0 before replacing any FRUs.)	 System Board Memory System Board
000111XX (See "Memory" in topic 11.0 before replacing any FRUs.)	 Adapter Memory Memory Adapter
000 112 XX, 000 113 XX	 Any Adapter System Board
000 161 XX	+ Battery
000 162 XX (Verify "Enable and Disable Settings" in topic 6.0 are correct before replacing any FRUs.)	Any Device
000163XX, 000164XX, 000165XX (If setting configuration does not solve the problem, see "Installed Devices List" in topic 2.0 before replacing any FRUs.)	 Set Configuration/Features System Board
000 166 XX	+ Any Adapter
0001xxxx (not listed above)	System Board
000 201 XX (Run Advanced Diagnostic Tests before replacing any FRUs.)	System Board Memory Adapter Memory Memory Adapter
000 215 XX, 000 216 XX, 000 221 XX (See "Memory" in topic 11.0 before replacing any FRUs.)	 System Board Memory System Board
000 301 XX, 000 302 XX	
000 303 XX	 System Board Keyboard Keyboard Cable
000 304 XX	+ System Board Keyboard
000 305 XX	+

I	Symptom-to-FRU Index
+	System Board
000 6xx xx 0 0 0 0 0 0 0 0 0	Diskette Drive System Board Power Supply
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
001108XX, 001109XX	 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
	Printer System Board
00 1780 XX 	Fixed Disk Drive C Fixed Disk Drive Adapter (ST506) System Board
00 1781 XX 	 Fixed Disk Drive D Fixed Disk Drive Adapter (ST506) System Board
00 1782 XX 	 Fixed Disk Drive Adapter (ST506) System Board
00 1790 XX 	Fixed Disk Drive C Fixed Disk Drive Adapter (ST506)
00 1791 XX 	+

	Symptom-to-FRU Index Fixed Disk Drive Adapter (ST506)
00 17XX XX (not listed above) 	Fixed Disk Drive C or D Fixed Disk Drive Adapter (ST506) System Board Power Supply
002401XX, 002402XX (changing colors)	 Display
002401XX, 002402XX (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 Interface Cable
00 46XX XX 	Multiport/2 Adapter Multiport/2 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
+	 Pointing Device
00 8603 xx 	 System Board
+	System Board Pointing Device
+	SCSI Adapter (with cache) Any SCSI Device System Board
010002XX, 010006XX 	Multiprotocol Adapter/A Any Serial Device
010007XX	 Communications Cable

	Symptom-to-FRU Index Multiprotocol Adapter/A
010008xx, 010009xx 	 Multiprotocol Adapter/A Any Serial Device
0100xxxx (not listed above) 	 Multiprotocol Adapter/A System Board
+	 Modem Adapter/A Any Serial Device
0101XXXX (not listed above) 	 Modem Adapter/A System Board
010480xx 	 Fixed Disk Drive C Fixed Disk Drive Adapter (ESDI) System Board
+	 Fixed Disk Drive D Fixed Disk Drive Adapter (ESDI) System Board
+	 Fixed Disk Drive Adapter (ESDI) Fixed Disk Drive C System Board
+	 Fixed Disk Drive Adapter (ESDI) System Board
+ 0 10490 xx 	 Fixed Disk Drive C Fixed Disk Drive Adapter (ESDI)
+ 0 10491 XX 	 Fixed Disk Drive D Fixed Disk Drive Adapter (ESDI)
0104xxxx (not listed above) 	Fixed Disk Drive C or D Fixed Disk Drive Adapter (ESDI) System Board Power Supply
+	1.2MB 5.25 Inch Internal/External Drive 5.25 Inch Adapter
 0 112xx xx 	 SCSI Adapter (without cache) Any SCSI Device System Board
+	 300/1200/2400 Modem/A Any Serial Device
0121XXXX (not listed above) 	 300/1200/2400 Modem/A System Board

+	+
016500XX 	6157 Tape-Attachment Adapter
+	6157 Streaming-Tape Drive
+	6157 Streaming-Tape Drive 6157 Tape-Attachment Adapter
0166XXXX, 0167XXXX (For diagnostic information refer to the Token-Ring Network Adapter/A service Information.)	Token-Ring Network Adapter/A System Board
0208xxxx (Verify there are no duplicate SCSI ID settings.)	Any Device
0210xxxA 0210xxxB 0210xxxC 0210xxxD 0210xxxE 0210xxxu (If the failing device is an external device, go to the external devices service pamphlet.)	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
0215xxxx (If the failing device is an external device, go to the external devices service pamphlet.)	SCSI CD-ROM Drive SCSI Adapter SCSI Cable
Supplemental Symptom-to-FRU Index:	

IBM PS/2 Model 80 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.

R: (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 c	dot)	Main Assembly
(One	dot)	☐ Detail parts of a main assembly
(One	dot)	☐ Subassembly of the main assemble
(Two	dot)	\square \square Detail part of a one-dot
		subassembly
(Two	dot)	\square \square Subassembly of a one-dot
		subassembly

Subtopics

13.1 Example of a Parts List

IBM PS/2 Model 80 HMS Example of a Parts List

13.1 Example of a Parts List

Index	System Unit				
32	Cover	90X9288			
3	<pre>3 Front Bezel/Logo (R)</pre>				
	Miscellaneous Hardware Kit (AR)	72X8580			
	☐ Knob Assembly, Fixed Disk				
	Drive Support Structure				
	$\square\square$ Knob				
	□□ Washer				

IBM PS/2 Model 80 HMS System Overview

14.0 System Overview

PICTURE 5

15.0 Parts

Index	System Unit Exterior		
1	Handle	72X8569	
2	Front Bezel/Logo (R)(Exchange Only)	72X8549	
4 4	1/2-High Diskette-Drive Bezel	72X8550 34F0030	
*	1/3-High Diskette-Drive Bezel Blank Bezel for Diskette Drive	72X8535	
	5.25-Inch Diskette-Drive Bezel	15F7915	
	Blank Bezel for 5.25-inch Drive Bay		
	Feature Bezel (for 53F3422)	72X8560	
5	Base Foot	72X8565	
	□ 6 mm Screw		
	□ Flat Washer		
	☐ Spring Washer (Rear Foot)		
9	☐ Detent (Front Foot) Cover (311)	15F6801	
9	Cover (All Others)	72X8548	
_	Cover-Lock Assembly	72X8557	
	Cover-Lock Kit	72X8572	
	☐ Cover-Lock Ring (Break-Away)		
	□ Cover-Lock Pawl		
Index	System Unit Interior		
3	Diskette Drive (see Diskette Drives)	
6	Battery/Speaker Assembly (No Cable)		
6	Above Assembly With Attached Cable	33F5950	
	Battery	72X8498	
_	Battery/Speaker Assembly Cable	72X8558	
7	Fixed Disk Drive Support Structure	72X8527	
8 10	Adapter (see Options and Adapters) Fixed Disk Drive (see Fixed Disk Dr	irrog)	
11	Support Structure Bracket	72X8563	
12	Drive Support Structure (1/2-High D		72X8559
12	Drive Support Structure (1/3-High D		34F0032
13	System Board (041,071)	33F8416	
	1MB Memory Kit (for 33F8416)	72X6670	
13	System Board (081,111,121,161,311,3	21)	33F8415
	2MB Memory Kit (for 33F8415)	90X7391	
13	System Board (A21,A31,A16)	34F0022	
	4MB Memory Kit (for 34F0022) Math Coprocessors:	34F0023	
	16 MHz (041,071)	72X6673	
	20 MHz (081,111,121,161,311,321)	90X7393	
	25 MHz (A21,A31,A16)	15F7661	
14	Power Supply (250 Watts)	57F1600	
15	System Base	34F0029	
	101/102-Key Keyboard Cable	72X8537	
Miscella	aneous Kits		
Label 1	Kit	72X6674	
□ Batte	ery Ordering Label		
	r Blank Label		
	r-Supply Warning Label		
	ht Warning Label	70770570	
	arts Kit (System) le Screw	72X8578	
	re screw Baffle Push Nut		
□ 4 mm			
	d Disk Drive Ground Wire		
Misc Pa	arts Kit (Options)	72X8579	
☐ Adap	ter-Slot Cover		
_	ter-Handle Bracket		
□ Cable	_		
	arts Kit (Memory Options)	72X7037	
	er, 80386 Memory-Expansion Kit ld, 80386 Memory-Expansion Kit		
	ld, 80386 System-Board Memory-		
	nsion Kit		
_	arts Kit (Hardware Kit)	72X8580	
	Assembly, Fixed Disk Drive		
Suppo	ort Structure		
\square Knob			
□ Wash			
	rt Screw		
⊔ Capt:	ive Cover Screw, Retainer, Washer		
Diskett	e Drive		

Diskette Drive

1/2-High 1.44MB Diskette Drive 72X8523 Diskette Drive Slide (for 72X8523) 72X8507

	Parts
1/3-High 1.44MB Diskette Drive	33F8211
Diskette Drive Slide (for 33F8211)	64F0156
5.25-Inch Diskette Drive:	
360KB External (4869-001)	72X6759
360KB External (4869-501)	72X6768
360KB Feature Group with Adapter	72X6758
1.2MB Internal	15F6912
Cable (for 15F6912)	15F6914
1.2MB External (4869-002)	15F7993
1.2MB External (4869-502)	15F7994
1.2MB Adapter/A	15F7996
Diskette Drive Cable (see DASD Cables)	

Fixed Disk Drive

44MB Fixed Disk Drive ST506	72X8541
70MB Fixed Disk Drive ESDI	72X8519
115MB Fixed Disk Drive ESDI	90X7392
314MB Fixed Disk Drive ESDI	90X8745
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	33F8453
Fixed Disk Drive Slide Tray (SCSI)	34F0031
Fixed Disk Drive Cable (see DASD Cables)	

CD-ROM

Internal CD-ROM Drive	81F7930
Terminators Kit (for 81F7930)	59F3530
Rail Kit (for 81F7930)	34F0041
Power Cable (single)	72X8521
Signal Cable (single)	34F0043

DASD Cables

PICTURE 6

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1 1/2 High Diskette Drive Cable 72X8543	
Drive-Cable Retainer (1/2-High Drive)	72X8573
2 Power Cable (single) 72X8521	
2 Power Cable (dual) 34F0034	
3 Fixed Disk Drive Ground Wire,	
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4 1.2MB Internal Cable (for 15F6912) 15F6914	
5 Signal Cable Drive C (except SCSI) 72X8545	
5 Signal Cable Drive D (except SCSI) 72X8567	
5 Control Cable (except SCSI) 72X8542	
5 (SCSI) Signal Cable	
(supports 2 devices) 64F0154	
5 (SCSI) Signal Cable	
(supports 3 devices) 34F0035	
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(supports 4 devices) 64F0155	
Options and Adapters Display Adapter 8514/A 1887971 □ Memory Module (for 1887971) 1887708	
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Fixed Disk Drive Adapter (ST506) 72X8540	
Internal Tape Backup Unit 30F5273	
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Tape Cover Plate 30F5275	
Formatted Blank Tape 30F5277	
Multiprotocol Adapter/A 90X8995	
Realtime Interface CoProcessor Multiport/2 09F1888	0-4000
	9F1889
1	9F1957
□ 4+4-port RS232-C RS422-A 09F1890	
Electrical Interface Board □ 512KB Memory Module Package 16F2267	
□ 512kb memory module Package 16F226/	

Parts

	Paris	
Multiprotocol Interface Cable (for 09F1888)		00F5524
_		0013324
Screen Reader Keypad	1393515	
Screen Reader Keypad Cable	72X8537	
SCSI Adapter/A (with cache)	85F0000	
Terminator, External (for 85F0000)	33F8464	
Terminator, Internal (for 85F0000)	34F0025	
SCSI Adapter/A (without cache)	85F0002	
Terminator, Internal (for 85F0002)	57F2870	
Token-Ring Network Adapter/A	83X7488	
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Token-Ring 16/4 Adapter/A	16F1144	
Token-Ring Adapter/A RPL	83X9180	
300/1200 Modem Adapter/A	34F0006	
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300/1200/2400 Modem Adapter/A	65X1253	
Communications Cable (for 65X1253)	94X1540	
3270 Connection	74F3464	
36/38 Emulation Adapter	69X6281	
5.25-Inch Diskette Adapter/A		
	1555006	
(1.2MB or 360KB)	15F7996	
5.25-Inch External Diskette Adapter/A		
(360KB) - Included in Feature Group	72X6758	
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6157 Tape Adapter	92X1459	
80386 Memory-Expansion Adapter	72X6671	
☐ Memory-Expansion Kit (for 72X6671)	72X6672	
2-8MB 80386 Memory Expansion Option	90X9556	
☐ 1MB Memory Module (for 90X9556)	90X8624	
☐ 2MB Memory Module (for 90X9556)	90X8625	
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Danish	1392005	
Dutch	1392013	
French	1392000	
German	1392001	
Italian	1392002	
Norwegian	1392007	
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Spanish/Latin	1392015	
Spanish/Latin		
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Parts

220/240 Vac	(Southern	Hemisphere)	72X7877
Tilt/Swivel	Stand		68X3061

8514	Color	Dienlay	(without	+ i 1 + /	cwivel	etand)
0214	COTOL	DISDIAV	(WILLIIOUL.	1.111./	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)

JJIJ COLOL DIBPIU, (WICH CIIC/DWIVEL DOMING)	
90/137 Vac (US and Canada) with	
tilt/swivel stand	38F3911
90/265 Vac (N Hemisphere) with	
tilt/swivel stand	38F3912
180/265 Vac (S Hemisphere) with	
tilt/swivel stand	38F3913
90/137 Vac (Japan, S.Korea, Taiwan) with	
tilt/swivel stand	38F3914

8604 Monochrome Display (with tilt/swivel stand)

110/120 Vac 6398267

Tools and Miscellaneous

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 Real-time Interface	16F2478
Co-Processor Multiport/2) 78-pin	
Wrap Plug (for Multiport Interface Cable)	6425494
Direct Connect 25-pin, ports 0 and 1	
Wrap Plug (for Multiport Interface Cable)	09F1799
Direct Connect 25-pin, ports 2 through 7	
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 8580)	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 Parts:

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IBM PS/2 Model 80 HMS Parts

 ГВМ	 	

IBM PS/2 Model 80 HMS Parts

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