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PICTURE 1

**Models 50, 50Z, 55, 70/80 486 Upgrades**

This package contains a supplement to the IBM Personal System/2 *Hardware Maintenance Manual* (part number 52G9971, form number S52G-9971-00).

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1.0 Numeric Error Codes (70/80 Upgrade)

The following error codes apply to systems with the 70/80 486DX33 Upgrade installed. For all other Micro Channel error codes, use the Numeric Error Code listing on page 28 in the PS/2 Hardware Maintenance Manual.

**Note:** Follow the "Related Service Procedures" on the following page before replacing any FRUs.

Symptom/Error	FRU/Action
000101XX (interrupt failure)	Run Advanced Diagnostics 486DX33 Upgrade (70/80)
000102XX (ROM checksum or timer error)	Run Advanced Diagnostics 486DX33 Upgrade (70/80)
000115XX (protect mode failure, or BIOS checksum error)	System Board 486DX33 Upgrade (70/80)
000116XX (Possible read/write problem)	Run Advanced Diagnostics 486DX33 Upgrade (70/80)
0001XXXX (Not listed above)	System Board Processor Board (90/95) 486DX33 Upgrade (70/80) Any Adapter Bus Adapter
0002XX00 (Not listed in the manual)	486DX33 Upgrade (70/80)
0007XXXX	Math Coprocessor 486DX33 Upgrade (70/80) System Board

*2.0 Related Service Procedures*

This page provides related service information for the 70/80 486DX33 Upgrade.

3.0 486DX33 Processor Upgrade (70/80) Problems

**Note:** Before running diagnostic tests, check that the processor upgrade card is fully seated in the system board and that the 80486 processor is fully seated in the upgrade card.

1. Power-off the system.
2. Insert the 70/80 Reference Diskette in drive A.
3. Power-on the system.
4. Follow the instructions on the screen to test the processor upgrade. If the error code indicates a system board failure, remove the processor upgrade and replace the system board. Install the processor upgrade on the new system board and test the system. If the problem remains, reinstall the original system board and replace the processor upgrade.

**Note:** Before you return a defective system board, install the 386 processor you removed from the new system board on the defective system board.

*4.0 486DX33 Upgrade (70/80) Switch Settings*

Use these switch settings for the Model 70 and the Model 80 only.

PICTURE 2

5.0 Numeric Error Codes (50/55 Upgrade)

The following error codes apply to systems with the Model 50, 50Z or 55 System Board Upgrade installed. For all other Micro Channel error codes, use the Numeric Error Code listing on page 28 in the PS/2 Hardware Maintenance Manual.

Symptom/Error	FRU/Action
00010XXX	System Board
000110XX (Reseat memory modules)	Memory Module Kit System Board
000111XX 000112XX	System Board
000113XX	Coprocessor System Board
000119XX	Run Auto Configuration System Board
00011XXX (not listed above)	System Board
000120XX	System Board
000201XX to 000205XX (Reseat memory modules)	Memory Module System Board
000320XX	System Board
000401XX to 000405XX	System Board
00060XXX, 00061XXX 000620XX, 000621XX, 000654XX, 000656XX, 000657XX, 000658XX, 000659XX, 000660XX (Try a known good diskette. If the error appears again, replace the drive)	Diskette Diskette Drive System Board
000702XX to 000710XX	Math Coprocessor System Board
001101XX, 001102XX 001103XX, 001111XX	System Board
001801XX to 001807XX	System Board
008001XX to 008012XX	Pointing Device (Mouse) System Board
010451XX, 010490XX 010491XX, 010492XX 010499XX	Riser Card Hard Disk Drive System Board

6.0 Model 50, 50Z, 55, 70 and 80 Upgrade Parts

**System Unit (50, 50Z)**

486SLC System Board Upgrade	61G3502
2MB Memory Module Kit	92F0102
4MB Memory Module Kit	92F0105
8MB Memory Module Kit	64F3606
80MB Hard Disk Drive	95F4721
170MB Hard Disk Drive	95F4728
245MB Hard Disk Drive	92F0403
340MB Hard Disk Drive	92F0404
Hard Disk Drive Ribbon Cable	71G2683
Hard Disk Drive Power Cable	71G2684

**System Unit (55)**

486SLC System Board Upgrade	71G2602
2MB Memory Module Kit	92F0102
4MB Memory Module Kit	92F0105
8MB Memory Module Kit	64F3606
80MB Hard Disk Drive	95F4721
170MB Hard Disk Drive	95F4728
245MB Hard Disk Drive	92F0403
340MB Hard Disk Drive	92F0404
Hard Disk Drive Ribbon Cable	71G2662
Hard Disk Drive Power Cable	71G2684
Original Hard Disk Drive Cable	71G2685

**System Unit (70)**

486DX33 Processor Upgrade	92F0436
486DX33 Processor Upgrade Board	
Coprocessor Compatibility Plug	
Socket Extender	

**System Unit (80)**

486DX33 Processor Upgrade	92F0437
486DX33 Processor Upgrade Board	
Coprocessor Compatibility Plug	