



Figure 1. NEC Image 425, 433, 466

## Specifications

### Processor

- Intel 486SX/25, 486DX/33, 486DX2/66MHz

### Memory

- 4MB standard, expands to 64MB

### I/O Expansion Slots

- Four 8/16 bit slots

### Diskette Drive

- 1.44MB, 3.5" floppy and 170MB or 340MB HD

### Integrated Features

- Controllers for Floppy, IDE and SCSI devices
- PS/2 Enhanced keyboard and Mouse
- One Parallel port, two RS-232C serial ports
- SVGA controller with 1MB of vRAM

### Optional Features

- Exchange One Serial for One Ethernet Card
- 256K cache upgrade

### Internal Expansion Bays

- Two 5.25" user accessible bays
- Two 3.5" slim line 1.6" internal bays

### I/O Architecture (Bus s supported)

- Industry Standard Architecture (ISA)

### Power Supply

- 110 Watt

### Dimensions

- 5.3" h X 17.2" w X 16.4" d

### Diagnostics

- Normal Post Diags performed on Power UP of system.

### CMOS Access

- QAPlus/FE

## Tools and Software Requirements

- 1/4" Flat bladed and 2PT Phillips screwdrivers
- T-15 Torx screwdrivers
- Needle nose pliers
- Diags and formatted blank diskette
- Anti-static wrist strap

## Jumper/Switch Settings

### System Configuration, Switch SW1

Switch	Setting	Function
1	ON	Turns off built in video
	OFF *	Turns on built in video
2	ON	Turns off diskette controller
	OFF *	Turns on diskette controller
3	ON	Turns off password feature
	OFF *	Turns on password feature
4	ON	Disallows BIOS reprogramming
	OFF *	Allows BIOS reprogramming
5	ON	BIOS reprog. on netwrk (No BUU)
	OFF *	BIOS reprog. on netwrk (Needs BUU)
6	ON	CPU speed 25/50mhz-(Image 425 )
	OFF	CPU spd 33/66mhz-(Image 433/466)

\* Default, BUU = BIOS Update Utility Diskette

### System Board Jumper Settings

Jumper	Setting	Function
JP1	Open *	Speaker off
JP2	Open *	Manufacturing test
JP3	Open *	Hardware reset
JP4	Open *	ROM emulation

\* Default

## Removal Procedures

Before beginning removal complete the following steps:

1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from outlet and system.
3. Disconnect all peripheral devices from the computer.
4. Discharge any static by touching static strap to chassis.

### System Cover

1. Locate the cover release at the top of the system in the back of the unit.
2. Turn the cover release with a coin or slotted screwdriver so that the slot is in the vertical position.
3. Slide the cover to the front of system a few inches.
4. Lift the cover up and off to remove.

## Special Notices:

- For Advanced Diags use a PC Diagnostic Utility.
- Troubleshoot according to errors found during test.
- All NEC hard drives are formatted at the factory and need no formatting and are configured as primary.
- All switch settings will not be reflected until the system has been completely repowered.
- When removing the processor chips, use a chip puller.
- Multi-Sync monitors contain high voltages, any internal adjustments are to be made only by certified engineer.
- Add memory to system in closest to the drive bays first.
- Different size SIMMS may be intermixed when adding memory to system board, however, same speed SIMMs are recommended.

## Field Replaceable Units

Memory	OEM Part	IBM Part
1MB SIMM, 1 x 9	158-053409-002	61H6763
4MB @ 1MB x 36 SIMM	158-082311-080	61H5866
4MB @ 1MB x 36, 72 Pin	158-053409-003	48H7042
16MB @ 4MB x 36 SIMM	158-082316-080	61H5867
16MB @ 4MB x 36 SIMM	158-053409-004	67H9767

Cache Boards	OEM Part	IBM Part
256KB Cache Board	158-053745-000A	62H1302

Internal Hard Drive	OEM Part	IBM Part
170MB, 3.5", IDE HD	158-050395-310	48H2529
340MB, 3.5", IDE HD	158-050395-311	48H2537
170MB, 1/3 ht., IDE HD	158-050395-324	47H9513
340MB, 1/3 ht., IDE HD	158-050404-939	67H9702

System Boards	OEM Part	IBM Part
G8KGP- 425 system board	158-026127-000A	67H9666
G8KHH- 433 system board	158-026127-100A	48H6993
G8KHJ- 466 system board	158-026127-200A	48H6994

CD-ROM Drives	OEM Part	IBM Part
CD-ROM reader	158-053615-001	

Diskette Drives	OEM Part	IBM Part
5.25", 1.2MB Floppy	136-261977-404A	20H9508
3.5", 1.44MB Floppy	158-053408-000	20H9536

Cables	OEM Part	IBM Part
HD IDE signal cable	158-050383-000	66H7460
5", Floppy signal cable	808-840655-014A	67H2179
SCSI data cable, 2 devices	158-050548-000	66H7470

Miscellaneous	OEM Part	IBM Part
ISA backboard	158-026134-000A	67H9669
Battery 3.6v	158-060155-000	20H9490
Drive Fan	808-864027-034A	37H8748
Power supply (110 Watt)	808-891039-001A	20H9522
Keyboard PS/2 style	808-897060-001A	49H5552
Ethernet N.I.C. (RJ45)	158-026137-000A	47H9401
Ethernet N.I.C. (BNC)	158-026137-100A	49H9407