

Figure 1. NEC PowerMate 386/25s

# **Specifications**

#### **Processor**

Intel 80386 8/25MHz

#### Memory

• 2MB or 8MB standard, expands 16MB

## I/O Expansion Slots

• Four 8/16 bit expansion slots

#### **Diskette Drive**

• 1.2MB, 5.25" or 1.44MB, 3.5" drive

#### **Integrated Features**

- Diskette drive controller.
- IDE interface on back plane board.
- PS/2 style keyboard and mouse
- Parallel port and one RS-232C serial port.

# **Internal Expansion Bays**

- Two 5.25" half height user accessible bays
- One 3.5" internal bay.

## I/O Architecture (Bus s supported)

ISA

## **Dimensions**

• 17 w X 16 d X 4.8 h

## **Power Supply**

• 110 Watt

#### **Diagnostics**

- Normal Post Diags performed on Power UP of system.
- For Advanced Diags use a PC Diagnostic Utility.
- Troubleshoot according to errors found during test.

## **CMOS Access**

QAPlus/FE

## **Tools and Software Requirements**

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

# NEC PowerMate 386/25s

# **Jumper/Switch Settings**

## System Board - SW3 SWITCH SETTINGS

Switch	Setting	Function
1	ON	80387 coprocessor, installed
	OFF *	80387 coprocessor, absent
2	ON *	Integrated VGA on
	OFF	Integrated VGA off
3	ON *	Serial port on
	OFF	Serial port off
4	ON	Serial port selection is COM2
	OFF *	Serial port selection is COM1
5	ON *	Parallel port is on
	OFF	Parallel port is off
6	ON *	Diskette drive controller is on
	OFF	Diskette drive controller is off
7	ON	Second I/O port for diskette
	OFF *	First I/O port for diskette
8	ON	Display type set to color
	OFF *	Display type monochrome
9	ON	Turns on IDE
	OFF *	Turns off IDE
10	ON	Turns on mouse port
	OFF *	Turns off mouse port

<sup>\*</sup> Default

## **System Board Jumper Settings**

Jumper	Setting	Function
JP2	unjumped	Cache memory off
	jumped *	Cache memory on
JP6	1-2 *	No coprocessor installed
	2-3	Coprocessor installed
JP8/JP9	1-2 *	8742/8042 keyboard gate
	2-3	Fast gate
JP20	1-2	COM2, IRQ3
	2-3 *	COM1, IRQ4
JP111	unjumped *	Keyboard test controller off
	jumped	Keyboard test controller on
JP112	unjumped	Password security off
	jumped *	Password security on
JP113	unjumped *	VGA daughter board used
	jumped	No VGA daughter board

<sup>\*</sup> Default

#### System Config, SIMM Board Jumper Settings

RAM Amount	Switch 1	Switch 2	Switch 3
2MB	OFF	OFF	OFF
4MB	OFF	OFF	ON
8MB	OFF	ON	OFF
10MB	OFF	ON	ON
16MB	ON	OFF	OFF

## System Config, Math Coprocessor Settings -- JP6

Туре	Jumper	SW3 - 1 Setting	
Intel 80387-25	2 - 3	ON	
Weitek WTL3167-25	1 - 2	OFF	
None	2 - 3	OFF	

# **Jumper/Switch Settings (Continued)**

System Config, ESDI HD Controller Board (G8BUT)

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Jumper	Setting	Function	
W1	Unjumped	BIOS Rom/Ram address map	
W2	Unjumped	BIOS Rom/Ram address map	
W3	Unjumped	BIOS Rom/Ram address map	
W8	Jumped	Mode select	
W14	Unjumped	Select translation mode	
W15	Unjumped	Cache enable	

System Config, MultiSync Graphics Engine

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Jumper	Setting	Function
JP1	Unjumped *	Vertical and Horizontal sync
	Jumped	Composite Sync-on-green
JP2	Unjumped	2 video controllers installed
	Jumped *	1 Video controller installed

## **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 with static strap against chassis.

## **System Cover**

How to remove the cover:

- 1. Unlock the keylock if one is present.
- 2. Remove five screws at the rear of the unit.
- 3. Remove two screws on each side of the unit.
- 4. When facing unit slide cover back, then lift up and off.

## Field Replaceable Units

OEM Part	IBM Part
158-026093-000	67H9651
158-082065-080	67H9766
136-008689-450A	67H9127
136-008689-451A	67H9128
158-082066-080	61H5863
158-050294-002	61H6760
136-007954-251A	67H9115
136-007954-250A	67H9114
	158-026093-000 158-082065-080 136-008689-450A 136-008689-451A 158-082066-080 158-050294-002 136-007954-251A

Controller	OEM Part	IBM Part
ESDI HD controller	136-006632-654A	67H9096
G8CDQ ST506 HD cntrlr.	808-865892-007A	62H1455
G8BUT ESDI HD	808-865892-005A	68H5603
controller		

Internal Hard Drive	OEM Part	IBM Part
42MB, 3.5", ST506 HD	136-008173-209A	48H6250
42MB, 5.25", ST506 HD	158-053236-426	66H0137
42MB IDE HD	136-260476-845A	48H6413
100MB, 3.5", ESDI HD	134-500571-	67H9043
	1590	

System Boards	OEM Part	IBM Part
G8GAH- System board	158-026092-000	20H9512
System board	158-026092-	47H9357
	000B	

Tape Drives	OEM Part	IBM Part
40MB, 5.25", tape drive	158-053116-003	47H9599
150MB, 5.25", tape drive	158-053208-001	47H9600

Diskette Drives	OEM Part	IBM Part
5.25", 1.2MB Floppy	136-009598-420A	47H8616
3.5", 1.44MB Floppy	136-009598-425A	20H9520
(Thin)		

Video Boards	OEM Part	IBM Part
G8EZE - VGA Adapter	136-260712-504A	67H9210
VGA, ISA	158-053297-000	66H0478

Cables	OEM Part	IBM Part
5", Floppy signal cable	808-840655-014A	67H2179
ESDI HD data cable	808-840069-017A	67H2173
5", ESDI HD, signal cable	808-840656-005A	67H2180
ST506, 5'', HD data cable	808-840069-011A	67H2171

Miscellaneous	OEM Part	IBM Part
Battery	802-140887-002A	47H9678
Backplane	158-050467-000	47H9531
Fan	136-009534-235A	66H6830
ISA Backboard	136-260712-501B	47H8800
Keyboard PS/2 style	808-897060-001A	49H5552
Power supply (110 Watt)	808-891039-001A	20H9522