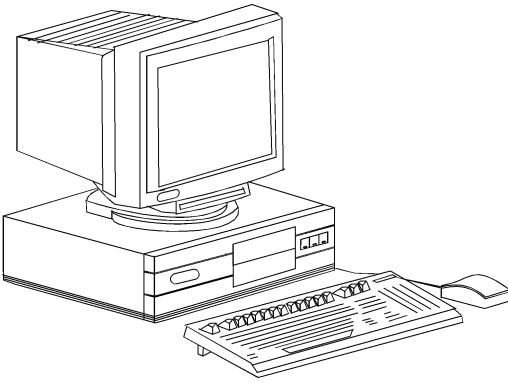


# Compaq Deskpro 386/20e



Compaq Deskpro 386/20e

## Specifications

### Processor

- Intel 20MHz, 80386.

### Memory

- 4MB standard, expands to 16MB.

### I/O Expansion Slots

- Four available expansion slots (8/16 bit).
- One 32 bit memory slot.

### Diskette Drive

- One 3.5" 1.44MB diskette drive.

### Integrated Features

- Socket for optional coprocessor.
- VGA.
- 25-pin parallel port.
- 9-pin serial port.
- Keyboard interface

### Internal Expansion Bays

- Two internal, two user accessible expansion bays.

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

- Industry Standard Architecture - ISA.

### Power Supply

- 140 watt power supply.

### Diagnostics

- Normal Post Diags performed on Power UP of system.
- For Advanced Diags use QAPLus/FE
- Troubleshoot according to errors found during test.

### CMOS Access

- QAPLus/FE.

## Tools and Software Requirements

- Flat bladed and Torx T-15, Torx T-10 screwdrivers.
- Needle nose pliers.
- Memory chip insertion & removal tool.
- 25-pin and 9-pin loopback plugs.
- Universal coprocessor removal tool.
- Compaq Advanced Diagnostics.
- Formatted blank diskettes.
- Anti-static wrist strap.

## Switch Settings

### System Board (Assembly 000935, 001196, 001316)

SW1	Position	Function
SW-1	ON *	Turns on fail-safe
	OFF	Turns off fail-safe
SW-2	OFF *	No 387 coprocessor installed
	ON	387 Coprocessor installed
SW-3	OFF *	Turns on mem. caching 12-16MB range
	ON	Turns off mem. caching 12-16MB range
SW-4	ON	CPU boot 20MHz, 8MHz w/ dsktte.
	OFF *	CPU boot 20MHz (all the time)
SW-5	OFF	Reserved
SW-6	ON *	Cpq VDU,EGA,RGBI,VGC
	OFF	3rd party MDA
SW-7,8	ON *, ON *	640KB base memory
	OFF, OFF	256KB base memory
	ON, OFF	512KB base memory
	OFF, ON	Reserved

Default \*

### System Board (Assembly 000935, 001196, 001316)

SW	Position	Function
SW-1	OFF *	Primary dsktte./HD addr. 3FX&1FX
	ON	Scndry. dsktte./HD addr. 37X&17X
SW-2	OFF *	Turns on pwr.-on password
	ON	Turns off pwr.-on password
SW-3	OFF *	Turns on HD controller
	ON	Turns off HD controller
SW-4/5	OFF *, OFF *	COM1 IRQ4
	ON, OFF	COM2 IRQ3
	ON, ON	Turns off serial interface
SW-6/7	OFF, ON	Reserved
	ON *, OFF *	LPT1 (3BX)
	OFF, ON	LPT2 (37X)
	ON, ON	Turns off printer interface
	OFF, OFF	Reserved
SW-8	OFF *	Turns on VGC
	ON	Turns off VGC

\* Default

### Jumper Settings

Jumper	Position	Function
E4	2-3 *	Turns on pointing device
E4	1-2	Turns off pointing device
E10	1-2 *	8-bit video ROM
	2-3	16-bit video ROM

\* Default

### System Board (Assembly 001625,001906)

SW1	Position	Function
SW-1	ON *	Turns on VGA
	OFF	Turns off VGA
SW-2	OFF *	Turns on pwr.-on password
	ON	Turns off pwr.-on password

\* 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 the outlet and System.
3. Disconnect all peripheral devices from the computer.

### System Cover

How to remove the cover:

1. Remove three screws from back of system unit.
2. Pull the cover forward expose the drive, then lift off.

## Field Replaceable Units

### Memory Boards

Description	Assembly	OEM Part	IBM Part
4MB	000758/000993 001166-001/002	113226-001	93F7290
1MB	000762/000981 001076 001151-001 001256/001259	113225-001	93F7291
1MB 32-bit bd.	000960	112518-001	93F7244
4MB 32-bit bd.	000963	112517-001	93F7245

### Controller Boards

Description	Assembly	OEM Part	IBM Part
Tape adapt.	000774	113259-001	93F7104
ESDI Ext. 300/600	0001091	115839-001	93F8114
15MHz ESDI	001283/001628	121667-001	93F8112
ESDI dsktte.	001472	115374-001	93F7164
Adv. ESDI cntrlr.	WD1009	123370-001	93F7223

### Video Boards

Description	Assembly	OEM Part	IBM Part
Adv. Grphcs. 1024	109958	114201-001	93F7103
Adv Grphcs. Mem	109959	114202-001	93F7102
VGA Pass-thru *	001430	114241-001	93F7162
QVision 1024/I	002163	126655-001	93F8109

\* Use for single monitor w/o a 1MB/4MB memory board.

### Internal Hard Drive

Size	Type	ROM	OEM Part	IBM Part
100MB	45	H.8	142365-001	20H8119
120MB	50	R.3	136918-001	20H8589
340MB *	28	K.2	194525-001	20H8617

HD Exp. Unit cntrlr. assembly: 001283, 001472, 001628, WD1009, \* formats to 325MB

### System Boards

Description	Assembly	OEM Part	IBM Part
386	000935/001196 001316/001625 001906-001	112571-001	93F7118
386 w/ VGA	001906-002	126528-001	93F8255

### Diskette Drives

Description	OEM Part	IBM Part
360KB	112567-001	93F7106
1.2	112566-001	93F7252
1.44MB	112565-001	93F7107

\* Uses MS DOS v.3.31 rev. A if used as drive B and MS DOS v.3.31 rev. B if used as drive A

### Tape Drives

Description	OEM Part	IBM Part
40/60MB 1/2ht. w/ cmpressn.	112524-001	93F7889
60MB 1/3ht. w/ cmpressn.	131338-001	93F8240
80/120MB 1/2ht. w/ cmpressn.	122087-001	93F8246
80/120MB 1/3ht. w/ cmpressn.	131337-001	93F8241
120/250MB	197490-001	20H8465
135MB	112523-001	93F7888
150/250MB	115220-001	93F7891
350/525MB	116804-001	93F7885

### Miscellaneous

Description	Assembly	OEM Part	IBM Part
Serial/Parallel	000570	106886-001	93F7110
Serial/Parallel	000990	106886-001	93F7110
9600/2400 modem		197458-001	20H8475
Power Supply		112570-001	93F7153
Battery	001196/001316 000935	112654-001	93F8115
Battery/clock	001625/001906	107872-001	93F7109

### Cables

Description	OEM Part	IBM Part
Dskt./Tape SIG	113594-001	93F7251
Mass Sto. Pwr.	113596-001	93F7250
Mass Sto. Pwr.	101741-001	93F7247
Mass Sto. Pwr.	101741-004	93F7148
Tape SIG	113198-001	93F7283
Tape SIG	116933-001	93F7088
HD SIG cable	113595-001	93F7267
HD SIG cable	112528-001	93F7248
HD PWR cable	115215-001	93F7171
HD SIG cable	115197-001	93F7169
HD SIG cable	100625-006	93F7293
Ext. I/O	115810-001	93F7161
Telephone	112666-001	20H8333
VGA Passthru	114229-001	93F7142

### Processor/Coprocessor Locations

Assemblies 000935, 001196, 001316

System Board	(386-20)	(387-20 or Weitek 3167)
	U154	U155

### Processor/Coprocessor locations

Assemblies 001625, 001906

System Board	(386-20)	(387-20 or Weitek 3167*)
	U139	U140

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## System ROM Location

Assemblies 000935,001196, 001316

U141	Odd
U156	Even

## System ROM location

Assemblies 001625, 001906

U119	Odd
U141	Even

## System ROM Revisions

Assemblies 000935, 001196, 001316, 001906-001  
(OEM P/N 112694-001, IBM P/N 93F7253 )

Revision	Number on ROM(ODD/EVEN)
M.2	112673-003/112674-003
M.4	112673-004/112674-004
N.2	112673-005/112674-005
N.3	112673-006/112674-006
P.6	122095-001/122096-001
R.3	122095-002/122096-002
R.4	124049-001/124050-001

## System ROM Revisions

Assemblies 001906-002

(OEM P/N 126551-001, IBM P/N )

Revision	Number on ROM(ODD/EVEN)
021491	126545/003/126546-003
022691	126545-004/126546-004
061391	126545-005/126546-005