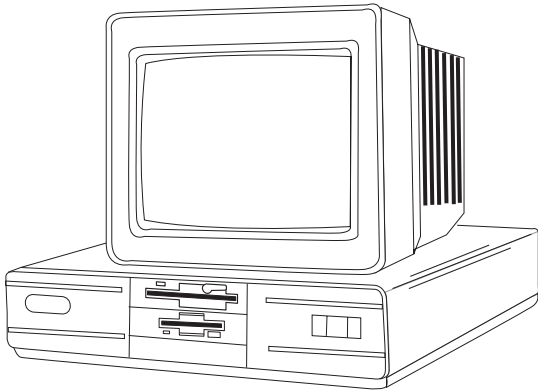


Compaq Deskpro 286E



Compaq Deskpro 286E

Specifications

Processor

- Intel 80286, 12 MHz

Memory

- 1 MB RAM standard expandable to 13 MB

I/O Expansion Slots

- 5 total slots: 1-16 bit and 4-8/16 bit

Diskette Drive

- 5.25 inch 1.2 MB or 3.5 inch 1.44 MB or 5.25 inch 360 KB

Integrated Features

- Parallel printer interface, asynchronous communications interface, integrated video graphics controller

Internal Expansion Bays

- 4 internal storage devices supported

I/O Architecture (Buses supported)

- Industry Standard Architecture ISA

Power Supply

- 140 watt, 120 volt

Diagnostics

- Normal Post Diags performed on Power UP of system.
- For Advanced Diags Diskette v. 3.0
- Troubleshoot according to errors found during test

Tools And Software Requirements

- Flat bladed screwdriver or Torx T-15
- Needle nose pliers; * Anti-static wrist strap
- 25 pin and 9 pin loopback plugs
- Diagnostics and formatted blank diskettes
- Advanced Diags diskette (286E)

Switchbank 1 Switch Settings (001226)

Switch	Setting/Status	Function
Base memory Limit		
SW1 & 2	ON*	ON* 640KB
	ON	OFF 512KB
	OFF	ON Reserved
	OFF	OFF 256KB
SW-3	OFF*	Disables Option ROM
	ON	Enables Option ROM
Power-On Speed		
SW-4	ON	Auto Speed
	OFF*	High Speed
SW-5	OFF*	Reserved
SW-6	ON*	All display adapters except MDA
	OFF	MDA only (text only)

*Default

Switchbank 2 Switch Settings (001226)

Switch	Setting/Status	Function
Diskette & FDD cntrls.		
1	ON	Secondary (37X, 17X)
	OFF*	Primary (3FX, 1FX)
Power-On Password		
2	ON	Disabled
	OFF*	Enabled
FDD Controller		
3	ON	Disabled
	OFF*	Enable
ASYNC (serial) interface		
4 & 5	OFF*	OFF* COM1
	ON	OFF COM2
	OFF	ON Reserved
	ON	ON Disabled
Parallel Interface		
6 & 7	ON*	OFF* LPT 1
	OFF	ON LPT 2
	OFF	OFF Reserved
	ON	ON Disabled
Video Grphcs Cntrl		
8	ON	Disabled
	OFF*	Enabled

*Default

Jumper Settings (001226)

Jumper	Setting/Status	Function
E4	2-3*	Enable pointing device
E4	1-2	Enable IRQ12, turn off pointing device
E11	2-3*	12mhz coprocessor
E11	1-2	8MHz coprocessor

*Default

Tape Adapter

Function	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
IRQ5*	ON	OFF						
IRQ3	OFF	ON						
Channel 3*			ON	OFF	ON	OFF		
Channel 1			OFF	ON	OFF	ON		
300 HEX*							ON	OFF
200 HEX							OFF	ON

*Default

Asynchronous Communications/ Parallel Printer Board

Assembly Number 000570

Switch	Setting/Status	Function
1	Always Off	Reserved
2	ON Enabled OFF Disabled	Asynchronous Inter.
3 & 4	ON ON OFF ON ON OFF OFF OFF	LPT 1 Parallel. LPT 2 Interface LPT 3 LPT 1 Disabled
5 & 6	ON ON OFF ON	COM 1 Asynchronous COM 2 Interface

Asynchronous Communications/ Parallel Printer Board

Assembly Number 000990

Switch	Setting/Status	Function
1	Always OFF	Reserved
2	Always OFF	Reserved
3 & 4	ON ON OFF ON ON OFF OFF OFF	LPT 1 Parallel. LPT 2 Interface LPT 3 LPT 1 Disabled
5 & 6	ON ON OFF ON OFF OFF	COM 1 Asynchronous COM 2 Interface Disabled

Fixed Disk Drive Jumper Settings

	C: Drive Position					D: Drive Position			
	ACT	C/D	DSP	HSP		ACT	C/D	DSP	HSP
20MB	ON	ON	OFF	OFF	No Drive	N/A			
20MB	OFF	ON	ON	OFF	20MB	OFF	OFF	OFF	OFF
20MB	OFF	ON	ON	OFF	40MB	OFF	OFF	OFF	OFF
20MB	OFF	ON	ON	OFF	110MB	OFF	OFF	OFF	OFF
40MB	ON	ON	OFF	OFF	No Drive	N/A			
40MB	OFF	ON	ON	OFF	20MB	OFF	OFF	OFF	OFF
40MB	OFF	ON	ON	OFF	40MB	OFF	OFF	OFF	OFF
40MB	OFF	ON	ON	OFF	110MB	OFF	OFF	OFF	OFF
110MB	ON	ON	OFF	OFF	No Drive	N/A			
110MB	OFF	ON	ON	OFF	20MB	OFF	OFF	OFF	OFF
110MB	OFF	ON	ON	OFF	40MB	OFF	OFF	OFF	OFF
110MB	OFF	ON	ON	OFF	110MB	OFF	OFF	OFF	OFF

DSP drive slave present, HSP host slave present, ACT activate, C/D select default drive

External FDD Controller Board, Assembly Number 001091

Switch	Setting/Status	Function
1	ON Secondary addr. *OFF Primary addr.	Selects address
2 & 3	OFF OFF IRQ15 ON OFF IRQ14 OFF ON IRQ12 ON ON IRQ11	Pwr-up default IRQ

*Default

Extended/Expanded Memory Jumper Settings

1MB Memory Expansion Board (001244)

Settings

E1-E3	E4-E6	E7-E9	MEM Exp Bd	Mod Mem A	Mod Mem B	TTL Mem	XT Mem	XP Mem
1-2XT	2-3*	2-3*	1MB			2MB	1MB	
2-3XP	2-3*	2-3*	1MB			2MB		1MB
1-2XT	1-2XT	2-3*	1MB	1MB		3MB	2MB	
1-2XT	2-3XP	2-3*	1MB	1MB		3MB	1MB	1MB
2-3XP	2-3XP	2-3*	1MB	1MB		3MB		2MB
1-2XT	1-2XT	1-2XT	1MB	1MB	1MB	4MB	3MB	
1-2XT	1-2XT	2-3XP	1MB	1MB	1MB	4MB	2MB	1MB
1-2XT	2-3XP	2-3XP	1MB	1MB	1MB	4MB	1MB	2MB
1-2XT	1-2XT	2-3*	1MB	4MB		6MB	5MB	
1-2XT	2-3XP	2-3*	1MB	4MB		6MB	1MB	4MB
2-3XP	2-3XP	2-3*	1MB	4MB		6MB		5MB
1-2EX	1-2XT	1-2XT	1MB	1MB	4MB	7MB	6MB	
1-2EX	1-2XT	2-3XP	1MB	1MB	4MB	7MB	2MB	4MB
1-2EX	2-3XP	2-3XP	1MB	1MB	4MB	7MB	1MB	5MB
1-2XT	1-2XT	1-2XT	1MB	4MB	1MB	7MB	6MB	
1-2XT	1-2XT	2-3XP	1MB	4MB	1MB	7MB	5MB	1MB
1-2XT	2-3XP	2-3XP	1MB	4MB	1MB	7MB	1MB	5MB
1-2XT	1-2XT	1-2XT	1MB	4MB	4MB	10MB	9MB	
1-2XT	1-2XT	2-3XP	1MB	4MB	4MB	10MB	5MB	4MB
1-2XT	2-3XP	2-3XP	1MB	4MB	4MB	10MB	1MB	8MB

* Default

Extended/Expanded Memory Jumper Settings

4 MB Memory Expansion Board (001247)

Settings

E1-E3	E4-E7	E7-E9	Mem Exp Bd	Mod Mem A	Mod Mem B	TTL Mem	XT Mem	XP Mem
1-2XT	2-3*	2-3*	4MB			5MB	4MB	
2-3XP	2-3*	2-3*	4MB			5MB		4MB
1-2XT	1-2XT	2-3*	4MB	1MB		6MB	5MB	
1-2XT	2-3XP	2-3*	4MB	1MB		6MB	4MB	1MB
2-3XP	2-3XP	2-3*	4MB	1MB		6MB		5MB
1-2XT	1-2XT	1-2XT	4MB	1MB	1MB	7MB	6MB	
1-2XT	1-2XT	2-3XP	4MB	1MB	1MB	7MB	5MB	1MB
1-2XT	2-3XP	2-3XP	4MB	1MB	1MB	7MB	1MB	5MB
1-2XT	1-2XT	2-3*	4MB	4MB		9MB	8MB	
1-2XT	2-3XP	2-3*	4MB	4MB		9MB	4MB	4MB
2-3XP	2-3XP	2-3*	4MB	4MB		9MB		8MB
1-2EX	1-2XT	1-2XT	4MB	1MB	4MB	10MB	9MB	
1-2EX	1-2XT	2-3XP	4MB	1MB	4MB	10MB	5MB	4MB
1-2EX	2-3XP	2-3XP	4MB	1MB	4MB	10MB	4MB	5MB
1-2XT	1-2XT	1-2XT	4MB	4MB	1MB	10MB	9MB	
1-2XT	1-2XT	2-3XP	4MB	4MB	1MB	10MB	8MB	1MB
1-2XT	2-3XP	2-3XP	4MB	4MB	1MB	10MB	4MB	5MB
1-2XT	1-2XT	1-2XT	4MB	4MB	4MB	13MB	12MB	
1-2XT	1-2XT	2-3XP	4MB	4MB	4MB	13MB	8MB	4MB
1-2XT	2-3XP	2-3XP	4MB	4MB	4MB	13MB	4MB	8MB

* Default

External Fixed Disk Drive Controller/300/600MB Disk

Switch	Setting/Status	Function
1	OFF	Primary Addr. Selected
	ON	Secondary Addr. Selected
2&3	OFF	OFF
	ON	IRQ15
	OFF	IRQ14
	ON	IRQ12
	ON	IRQ11 (default)
	OFF	Reserved

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 & system.
3. Disconnect all peripheral devices from the computer.

System Cover

1. How to remove the cover
2. Unlock the security key lock
3. Remove three screws from back of system unit
4. Lift case from the front of the system.

Field Replaceable Units

Memory	Assembly	OEM Part	IBM Part
1MB memory	000762,000981	113225-001	93F7291
	001256,001259		
4MB memory	000758,000993	113226-001	93F7290
	001166-001		
	001166-002		
1MB, 16bit bd.	001244	117471-001	93F7324
4MB, 16 bit bd.	001247	117470-001	93F7325

Controller	Assembly	OEM Part	IBM Part
External FDD Cntrl	001091	115839-001	93F8114
135MB Tape adap bd	000774	113259-001	93F7104
15MHz ESDI cntrl bd	001628	121667-001	93F8112
ESDI diskette cntrl bd	001472	115374-001	93F7164
Adv. ESDI cntrl	WD1009	122370-001	93F7223

Internal Hard Drive

Size	Type	ROM	OEM Part	IBM Part
120MB	50	C.3	136918-001	20H8589
110MB	33	B.3	112525-001	93F7862
100MB	78	B.3	142365-001	20H8119
40MB	22	B.3	112526-001	47H3873
20MB	2	B.3	112527-001	47H3856

System Bds	OEM Part	IBM Part
System ROM	117481-001	93F7323
System Board	117469-001	93F7326
8-MHz 80287 coprocessor	106558-001	93F7120
12-MHz 80C287 coprocessor	110541-001	93F7842

Tape Drives	OEM Part	IBM Part
40/60MB (1/2 height) *	112524-001	93F7889
60MB(1/3 height)*	131338-001	93F8240
80/120MB (1/3 height)*	131337-001	93F8241
120/250MB	197490-001	20H8465
135MB	112523-001	93F7888
150/250MB	115220-001	93F7891

*With compression

Diskette Drives	OEM Part	IBM Part
1.2 MB Diskette Drive	112566-001	93F7252
360 KB Diskette Drive	112567-001	93F7106
1.44 MB Diskette Drive*	112565-001	93F7107

*Requires MS DOS v.3.31 rev. A if used as drive B, uses MS DOS v.3.31 rev. B if used as drive A

Miscellaneous	OEM Part	IBM Part
Power Supply	112570-001	93F7153
Keyboard assembly	112573-001	93F7105

Video Boards	Assembly	OEM Part	IBM Part
Adv. Graphics**	109958	114201-001	93F7103
Adv. Graphics Mem	109959	114202-001	93F7102
VGA Pass through bd	001430	114241-001	93F7162

**Required for single monitor only if 1MB or 4MB mem board is NOT installed

Cables	Function	OEM Part	IBM Part
Disk/tape signal	all disks, 40/60 80/120 tbu	113594-001	93F7251
Mass Sto Pwr	all disks/tbu's	113596-001	93F7250
		112669-003	93F7173
Mass Sto Pwr	all int h.d. drive C (6")	101741-001	93F7247
Mass Sto Pwr	all int h.d. drive D	101741-004	93F7148
Tape signal cable	135&150/250 MB tbu (18")	113198-002	93F8256
H.D. signal	all int h.d. drive C	113595-001	93F7268
H.D. signal	all int. h.d. drive D	112528-001	93F7248
Ext. I/O cbl	expansion unit	115810-001	93F7161
telephone cbl	modem	112666-001	20H8333
VGA pass through	advanced graphics	114229-001	93F7142