

The following pages were  
extracted from the:

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*COMPAQ SERVICE  
QUICK REFERENCE GUIDE*

# DP286-8

## 8-MHz COMPAQ DESKPRO 286

### BOARD COMPATIBILITY LIST

Product	Assy No.	Spare Part No.	Page
<b>SYSTEM BOARDS</b>			
80286 System	000094	102774-001	69
80286 System	000361	106434-001	69
<b>MEMORY BOARDS</b>			
512/2048 Mem Exp	000307/000308	105033-001	A-1
System Memory	000130/000178/ 000382	102710-001	70
<b>MEMORY CHIPS</b>			
64 X 1 (150 ns) DRAM		105152-001	X
256 X 1 (150 ns) DRAM		105151-001	X
<b>CONTROLLER BOARDS</b>			
Fixed Disk Cntrl	WD1002WAH	102778-001	A-1
Multipur Cntrl	000142	102705-001	A-2
Multipur Cntrl	000181-001/021	102705-001	A-2
Multipur Fixed Disk	000336	104174-001	A-2
Multipur Fixed Disk	000519/000815	104174-001	A-3
ESDI Fixed Disk (3.1)	WD1005WAH	108140-001	A-1
ESDI 130/300	WD1007AWAH	113265-001	A-1
<b>VIDEO BOARDS</b>			
Enh Color Graphics*	000410	106373-001	A-5
Enh Color Graphics*	000471	109196-001	A-5
VDU	000031/000160/ 000345	101340-001	A-5
VDU	000525	101340-001	A-7
VGC*	000806/001241/ 109360	109253-001	A-7
* ECG and VGC require system ROM F or later			
<b>MISCELLANEOUS</b>			
Serial/Parallel Interface	000570	106886-001	A-8
Serial/Parallel Interface	000990	106886-001	A-9
2400-Baud Int. Modem	001070	112693-001	X

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### FIXED DISK DRIVES

Drive Size	Drive Type	Inter-leave	Inte-grated	Min ROM	Spare Part No.	Controller Assy No.
20 MB <sup>1</sup>	2	4:1	N	A	102777-001	WD1002WAH
30 MB <sup>1</sup>	6	3:1	N	F	101664-001	WD1002WAH
40 MB*	17	3:1	Y	F	108058-001	000336 000519 000815
70 MB	12	2:1	N	F	102932-001	WD1002WAH
130 MB <sup>2</sup>	25 <sup>3</sup>	3:1	N	F	108080-001	WD1005WAH
	35 <sup>3</sup>	1:1		F		WD1007AWAH

\* See page A-13 for dual 40-MB drive configuration information.

<sup>1</sup> Comes formatted for the COMPAQ DESKPRO. Must be reformatted when used in the 8-MHz COMPAQ DESKPRO 286.

<sup>2</sup> Comes formatted as type 35 for the WD1007AWAH controller. If used with the WD1005WAH controller (type 25) you must perform an unconditional format followed by a surface analysis using ADVANCED DIAGNOSTICS 5.04 or greater.

<sup>3</sup> MS-DOS 3.1 or earlier supports type 25 only. MS-DOS 3.2 or later supports either type. Use type 25 if the application software supports only 17 sectors per track.

### TAPE DRIVES

Drive Size	Spare Part No.	Tape Cartridge	Spare Part No.
10 MB	101438-001	10 MB (DC1000)	101488-001
40 MB	108081-001	40 MB (DC2000)	108142-001

### DISKETTE DRIVES

Size	Spare Part No.
360 KB	102928-001
1.2 MB	102775-001
1.44 MB*	113263-001 (Requires minimum sys. ROM N.3)

\* Requires MS-DOS Version 3.31 Revision A if installed as drive B, and MS-DOS Version 3.31 Revision B if installed as drive A.

### CABLE INFORMATION

Cable Function	Used With	Spare Part No.
Diskette/Tape Signal <sup>1</sup>	All Diskette Drives All Tape Drives	101380-002
Mass Storage Power <sup>1</sup>	All Diskette, Tape, & Fixed Disk Drives	101137-001
FDD Signal <sup>2</sup>	30-MB FDD	101601-001 101601-002
FDD Signal	20-, 30- & 70-MB FDD	100625-003 100625-004
FDD Signal <sup>3</sup>	40-MB FDD	108086-001
FDD Signal	40-MB FDD (Dual Drives)	108087-001
FDD Signal <sup>4</sup>	130-MB FDD	100625-005 100625-006

<sup>1</sup> Part of kits 102934-001 & 108146-001    <sup>3</sup> Part of kit 108146-001

<sup>2</sup> Part of kits 100641-002 & 102934-001    <sup>4</sup> Part of kit 108249-001

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## 8-MHz COMPAQ DESKPRO 286

### BOARD JUMPER/SWITCH SETTINGS

#### SYSTEM BOARD (000094)

Jumper	Pins	Function
ED	1 to 2	3rd-party monochrome (MDA only)
ED	2 to 3	COMPAQ VDU, COMPAQ EGA, compatible EGA, RGBI, or VGC (default)
ES	1 to 2	CPU boot speed 8 MHz (default)
ES	2 to 3	CPU boot speed 6 MHz
EM		Reserved

#### SYSTEM BOARD (000361)

#### SW1 SETTINGS

1	2	3	4	5	6	7	8	Function
ON								With 64K X 1 DRAM
OFF								With 256K X 1 DRAM
	ON	ON						Disable RAM and ROM
	ON	OFF						0-256 KB base memory
	OFF	ON						0-512 KB base memory
	OFF	OFF						Enable all base memory
			OFF	OFF				With 64K X 1 DRAM
			ON	ON				256K X 1 DRAM. No extended memory
	150ns (or faster) 256K X 1 chips only		ON	OFF				Enable bank 2 for 1.0 to 1.5 MB of memory
			OFF	ON				Enable banks 2 & 3 for 1.0 to 2.0 MB of memory
			OFF	OFF				Enable all banks for 1.0 to 2.5 MB of memory
					OFF*			CPU boot speed 8 MHz
					ON			CPU boot speed 6 MHz
						OFF		Reserved
							ON*	COMPAQ VDU & EGA, compatible EGA, RGBI, or VGC
							OFF	3rd-party monochrome (MDA only)

\* Default

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### BOARD JUMPER/SWITCH SETTINGS

#### SYSTEM MEMORY BOARD (000130\*)

Memory Type	Jumper Settings	Address Range Enabled
64K X1 chips	E1 to E2	0 - 640 KB
	E5 to E6	
64K X 1 chips	E2 to E3	0 - 512 KB
	E4 to E5	
256K X 1 chips	E2 to E3	0 - 640KB**
	E5 to E6	1 - 2.5 MB
256K X 1 chips	E2 to E3	0 - 640 KB
	E4 to E5	

\*Not PAL-dependent  
\*\* 640 KB to 1 MB reserved

#### SYSTEM MEMORY BOARD (000178\* and 000382\*\*) - PAL in U90

Memory Type	E1 Jumper Pins	Address Range Enabled
64K X 1 chips	1 to 2	0 - 640 KB
	5 to 6	
64K X 1 chips	1 to 2	0 - 512 KB
	4 to 5	
64K X 1 chips*	2 to 3	0 - 256 KB
	4 to 5	
256K X 1 chips	2 to 3	0 - 640 KB***
	5 to 6	1 - 2.5 MB
256K X 1 chips**	2 to 3	0 - 640 KB
	4 to 5	

\* Only valid with 102665 PAL  
\*\* Only valid with 105615 PAL  
\*\*\* 640 KB to 1 MB reserved

#### PROCESSOR LOCATIONS (80286-8)

000094 System Board	000361 System Board
U60	U3

#### COPROCESSOR LOCATIONS (80287-3 or -8)

000094 System Board	000361 System Board
U74	U17

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### SYSTEM ROM INFORMATION

#### SYSTEM ROM LOCATIONS

000130 Sys Memory Bd	000178 & 000382 Sys Mem Bd	000361 System Bd
U82 ODD U88 EVEN	U84 ODD U92 EVEN	U92 ODD U49 EVEN

#### SYSTEM OPTION ROM LOCATIONS

000130 Sys Memory Bd	000178 & 000382 Sys Mem Bd	000361 System Bd
U78 ODD U85 EVEN	U79 ODD U89 EVEN	U116 ODD U75 EVEN

#### SYSTEM ROM REVISIONS (Spare Part No. 105035-001)

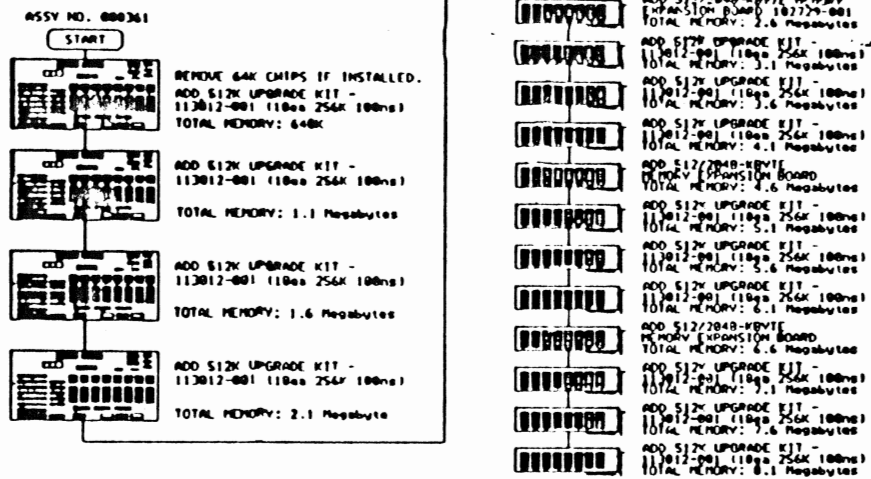
Rev	PN on ODD ROM	PN on EVEN ROM
A	102667-001	102669-001
B	102667-002	102669-002
C	102667-003	102669-003
D	105620-001	105622-001
E	106261-001	106263-001
F	106437-001	106438-001
G	106580-001	106581-001
J	106778-001	106779-001
K	106778-002	106779-002
M	106970-001	106971-001
N.3	106970-002	106971-002
P.1	109739-001	109740-001
R.2	109739-002	109740-002
S.1	109739-003	109740-003

#### POWER SUPPLY

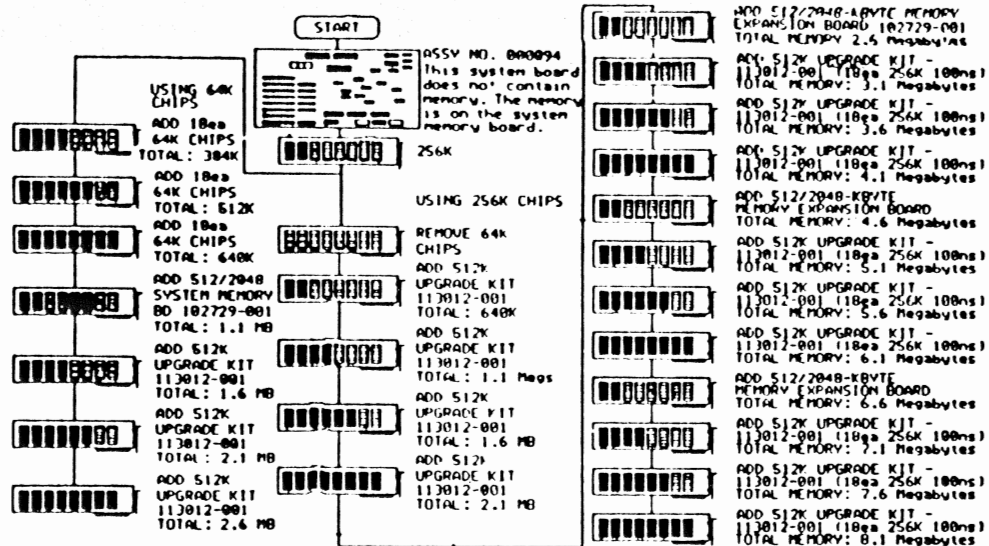
Spare Part No. 102927-001

#### BATTERY

Spare Part No. 102929-001



## 8-MHz COMPAQ DESKPRO 286 MEMORY UPGRADE CHART No. 1



## 8-MHz COMPAQ DESKPRO 286 MEMORY UPGRADE CHART No. 2