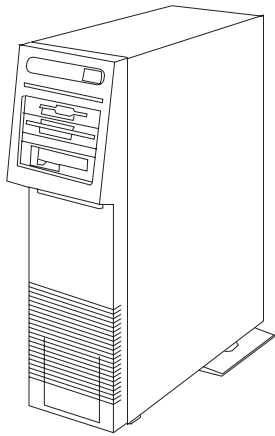


Compaq SystemPro and SystemPro/e

Jumper Settings

SystemPro: 002268, SystemPro/e: 001981,001514

| Jumper | Pin | Function |
|-----------|-------|------------------------------|
| E1 | 2-3 * | Turns on password |
| | 1-2 | Turns off password |
| E2 | | Reserved |
| E3 | 2-3 * | Read extended mem., standard |
| | 1-2 | Don't read extended mem. |
| E4 | 2-3 * | Turns on VGA |
| | 1-2 | Turns off VGA |
| * Default | | |



Compaq SystemPro and SystemPro/e

Specifications

Processor

- **SystemPro:** 386/33, 486/33MHz.
- **SystemPro/e:** 486/33, 486DX2/66MHz.

Memory

- 8/16MB standard, expands to 256MB.

I/O Expansion Slots

- Eleven total slots: four 32 bit processor/memory slots, seven full sized 8/16/32 bit EISA bus master slots.

Diskette Drive

- One 3.5" 1.44 diskette drive.

Integrated Features

- Two serial.
- Parallel.
- Pointing device port.
- Advanced VGA.
- Integrated fixed disk drive controller.
- Keyboard.
- Compaq IDA-2 controller.

Internal Expansion Bays

- Eleven total mass storage expansion bays: three user accessible, eight internal.

I/O Architecture (Bus's supported)

- EISA.

Power Supply

- 355 Watt.

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

- Torx T-15 screwdriver, flat bladed screwdriver.
- Coprocessor removal tool.
- ROM removal tool.
- 25-pin/9-pin loopback plug.
- System configuration software.
- Diagnostics and formatted blank diskettes.
- Anti-static wrist strap.

Removal Procedures

Before beginning removal complete the following:

1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from the outlet/system.
3. Disconnect all peripheral devices.

System Cover

Warning: High voltage is present, use caution when running the SystemPro without the system cover on.

1. Unlock system unit cover keylock.
2. Unscrew 6 thumb screws on back.
3. Extend the unit's feet on the base.
4. Lift front plate w/cover forward and up.

Field Replaceable Units

| Memory | Assembly | OEM Part | IBM Part |
|--|----------|------------|----------|
| 4-socket sys mem. | 001370 | 116799-001 | 93F8183 |
| 6-socket mem. | 001376 | 116803-001 | 93F7094 |
| 2MB | 001250 | 115184-001 | 93F7218 |
| 8MB | 001361 | 116800-001 | 93F7097 |
| 8MB dual socket ¹ | 001364 | 116801-001 | 93F7096 |
| 32MB dual socket | 001367 | 116802-001 | 93F7095 |
| Array Cache mem. ² | 002391 | 123784-001 | 20H8619 |
| Adv. grphcs. mem. ¹ | 109959 | 114202-001 | 93F7102 |
| ¹ SystemPro only, ² SystemPro/e only | | | |

Controller Boards

| Description | Assembly | OEM Part | IBM Part |
|---------------------|----------|------------|----------|
| SMART cntrlr. bd. | 002969 | 142130-001 | 20H8547 |
| SMART cntrlr. bd. | 003596 | 181132-001 | 20H8736 |
| Fast SCSI-2 | 002682 | 142040-001 | 90G6451 |
| Fast wide SCSI-2/E | 003529 | 199634-001 | 37H1205 |
| NetFlex controller | 002709 | 142041-001 | 20H8539 |
| NetFlex TR module | 142035 | 142042-001 | 20H8555 |
| NetFlex-2 ENET/TR | 003382 | 142222-001 | 20H8566 |
| NetFlex-2 Dual ENET | 003101 | 142151-001 | 20H8567 |
| NetFlex-2 TR | 003647 | 199521-001 | 20H8538 |
| NetFlex-2 Dual TR | 003104 | 142195-001 | 20H8630 |
| NetFlex-3/E | 004162 | 169801-001 | 52H5606 |
| NetFlex-3/P | 004165 | 169811-001 | 74H2685 |
| NetFlex-3 100 base | 004183 | 169805-001 | 61H8949 |
| NetFlex-3 100 VG | 004189 | 169803-001 | 61H8947 |

Field Replaceable Units, Continued

| Video Boards | Assembly | OEM Part | IBM Part |
|-------------------------------|------------------|------------|----------|
| Adv. grphcs. ¹ | 109958 | 114201-001 | 93F7103 |
| QVision 1024/E ^{1,2} | 001924 | 126654-001 | 93F9348 |
| Adv. VGA board ² | 002340/ 00220 | 126656-001 | 93F8825 |

¹ SystemPro only, ² SystemPro/e only

Internal Hard Drive

| Size | Type | ROM | OEM Part | IBM Part |
|---------------------|------|--------|------------|----------|
| 120MB ¹ | 50 | 091689 | 116806-001 | 93F8181 |
| 210MB ¹ | 51 | 091689 | 124013-001 | 93F7865 |
| 320MB ¹ | 28 | 091689 | 115182-001 | 93F7867 |
| 650MB* ¹ | 41 | 091689 | 115181-001 | 93F7870 |

HD exp. unit cntrlr. assembly WD1009/001628, WD1009, *
Use type 49 w/ MS DOS, 42 w/ OS/2, 41 w/ SCO.

Hard Drive Array Pairs

| Description | Pairs | OEM Part | IBM Part |
|-------------|------------------------------|------------|----------|
| Array size | 120MB/240MB ¹ | 116806-001 | 93F8181 |
| | 210MB/420MB ¹ | 116805-001 | 93F8182 |
| | 340MB/680MB ² | 139964-001 | 20H8552 |
| | 510MB/1.02GB* ^{1,2} | 139965-001 | 20H8553 |

HD array mounting brckt. OEM Part: 128180-001, IBM Part:
48H6057. * More than three drives use thermal upgrade kit:

¹ SystemPro only, ² SystemPro/e only

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

* Uses DOS ver. 3.31 rev. A or later to be used as Drive B,
and MS DOS 3.31 rev. B or later to be used as Drive A

| Syst. Boards | Assembly | OEM Part | IBM Part |
|---------------------------|---------------|------------|----------|
| I/O board ¹ | 001514/001981 | 116796-001 | 93F8184 |
| 386/33 ¹ | 001358 | 116795-001 | 93F7233 |
| 486/33 ^{1,2} | 001738/002013 | 116794-001 | 93F8185 |
| | 002013 | 116794-002 | 20H8620 |
| 486DX2/66* ^{1,2} | 002211 | 133825-001 | 93F8218 |
| I/O board ² | 001981 | 141927-001 | 20H8621 |
| I/O board ² | 001541 | 116796-001 | 93F8184 |

¹ SystemPro only, ² SystemPro/e only, * Uses ROM 061992

Miscellaneous

| Description | Assembly | OEM Part | IBM Part |
|-----------------|---------------------|------------|----------|
| Serial/Prll. | 000570/00990 | 106886-001 | 93F7110 |
| 96/24 mdm. | | 197458-001 | 20H8475 |
| Modem 144/I | 003002 | 147453-001 | 55H1777 |
| Srvr. Mngr. /R* | 001897 | 125726-001 | 93F8829 |
| Power supply | | 116798-001 | 93F7098 |
| Battery sys bd. | 001514 | 107872-001 | 93F7109 |
| Battery sys bd. | 001981 ² | 126570-001 | 93F8180 |

* VAR's only, uses ROM v. 8.6 or higher, ² SystemPro/e

| Tape Drives | OEM Part | IBM Part |
|---------------|------------|----------|
| 150/250MB | 115220-001 | 93F7891 |
| 320/525MB | 116804-001 | 93F7885 |
| 1.3/2.0GB DAT | 131149-001 | 93F8347 |

| Cables | OEM Part | IBM Part |
|---|------------|----------|
| Diskette/tape power | 116939-001 | 93F7359 |
| Diskette/tape signal | 116940-001 | 93F7358 |
| Hard drive power (single HD) | 120591-001 | 93F7228 |
| Hard drive signal (single HD) ¹ | 119510-001 | 93F7082 |
| HD power (L1/L2 dual) ¹ | 116936-001 | 93F7087 |
| Hard drive signal (L1/L2 dual) ¹ | 116942-001 | 93F7084 |
| HD sig. (L3/L4 rear dual) | 116937-001 | 93F7086 |
| HD power (L3/L4 Dual) ¹ | 116935-001 | 93F7210 |
| HD sig. (L3/L4 front dual) | 116938-001 | 93F7208 |
| Dual AUI breakout ¹ | 197134-001 | 20H8727 |
| DualPort ENET Loop ¹ | 142254-001 | 20H8725 |
| Tape 150/250 & 320/525MB) | 116932-001 | 93F7089 |
| Tape Power (1.3/2.0GB) | 120591-001 | 93F7228 |
| Tape signal (150/250MB) | 116931-001 | 93F7090 |
| Tape (320/525 & 1.3/2.0GB) | 116933-001 | 93F7088 |
| HD Sig. sidemount (L1,L2 dual) | 141941-001 | 48H6662 |
| VGA Pass through ¹ | 114229-001 | 93F7142 |

¹ SystemPro only, ² SystemPro/e only

Processor/Coprocessor Locations, Sys. Bd. 001358

| Processor | Coprocessor | Processor Board |
|-----------|-------------|-----------------|
| | U1 | Weitek 3167-33 |
| | U2 | 387-33 |

SystemPro only

System ROM Locations

| | |
|--------------------------------------|------------------|
| System Board (001514) ¹ | U55 Odd/U54 Even |
| System Board (001981) ^{1,2} | U33 |

¹ SystemPro only, ² SystemPro/e only

System ROM Revisions System Board 001514

(OEM Part 116797-001, IBM Part 48H5662)

| Revision | Number Odd/Even ROM |
|----------|-----------------------|
| 091689 | 116686-001/116687-001 |
| 101189 | 116686-003/116687-003 |
| 101989 | 116686-004/116687-004 |
| 112989 | 119863-002/119864-002 |
| 120689 | 119863-003/119864-003 |
| 020990 | 123151-001/123152-001 |
| 080190 | 122035-001/122036-001 |
| 101590 | 122035-002/122036-002 |
| 032291 | 126865-001/126866-001 |
| 040491 | 126865-002/126866-002 |
| 081491 | 126865-003/126866-003 |
| 092391 | 126865-004/126866-004 |
| 033092 | 126865-005/126866-005 |
| 061992 | 136413-001/136412-001 |
| 041393 | 144047-001/144048-001 |

SystemPro only

System ROM Revisions System Board 001981

(OEM Part 128128-001, IBM Part 48H6054)

| Revision | Number Odd |
|-----------------------|------------|
| 092391 ¹ | 128119-007 |
| 033092 ^{1,2} | 128119-008 |
| 061992 ^{1,2} | 136414-001 |
| 041393 ^{1,2} | 144049-001 |

¹ SystemPro only, ² SystemPro/e only