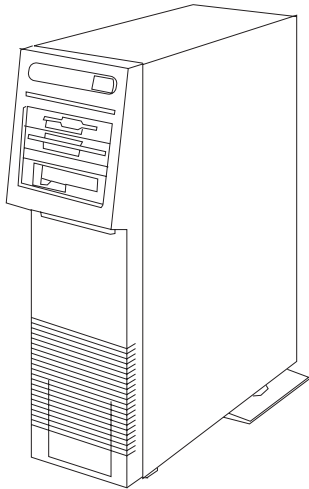


# Compaq SystemPro LT



Compaq SystemPro LT

## Specifications

### Processor

- Intel 386/25, 486SX/25, 486/33

### Memory

- 4MB standard, expands to 64MB

### I/O Expansion Slots

- Ten total slots

### Diskette Drive

- One 3.5" 1.44 diskette drive

### Integrated Features

- Two serial
- Parallel
- Pointing device port
- Advanced VGA.

### Internal Expansion Bays

- Supports up to eleven mass storage devices.

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

- Compaq Flexible Advanced Systems Architecture

### 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

## Jumper/Switch Settings

Switch Settings - SW500  
System Board 002268

| SW | Position | Function                         |
|----|----------|----------------------------------|
| S1 | OFF      | Reserved                         |
| S2 | OFF *    | Unlocks EISA config.             |
|    | ON       | Locks EISA config.               |
| S3 | OFF *    | Turns on diskette write          |
|    | ON       | Turns off diskette write         |
| S4 | OFF *    | Dsktte. boot allowed by config.  |
|    | ON       | Dsktte. boot allowed w/o config. |
| S5 | OFF *    | Turns on password                |
|    | ON       | Turns off password               |
| S6 | OFF *    | Turns on EISA configuration      |
|    | ON       | Turns off EISA configuration     |

\* Default

Switch Settings - 486SX/25 Processor  
System Board 002316,002300

| SW | Position | Function                 |
|----|----------|--------------------------|
| S1 | OFF *    | Reserved                 |
| S2 | OFF *    | 487 coprocessor not used |
|    | ON       | 487 coprocessor used     |
| S3 | OFF *    | 487 coprocessor not used |
|    | ON       | 487 coprocessor used     |

\* Default

Switch Settings - 486/33 Processor  
System Board 002319,002297

| SW | Position | Function |
|----|----------|----------|
| S1 | OFF      | Reserved |
| S2 | OFF      | Reserved |
| S3 | OFF      | Reserved |

## 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

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.

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

## Field Replaceable Units

### Memory

| Description | Assembly      | OEM Part   | IBM Part |
|-------------|---------------|------------|----------|
| Mem. brd.   | 002071        | 129129-001 | 93F7239  |
| 1MB         | 118666        | 118740-001 | 93F7236  |
| 2MB         | 118667        | 113923-001 | 93F7280  |
| 4MB         | 137854/18665  | 118741-001 | 22H4124  |
| 8MB         | 137853/129041 | 128954-001 | 22H4123  |

### Controller Boards

| Description         | Assembly | OEM Part   | IBM Part |
|---------------------|----------|------------|----------|
| SMART contrlr. bd.  | 002969   | 142130-001 | 20H8547  |
| SMART contrlr. 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  |

### Video Boards

| Description    | Assembly         | OEM Part   | IBM Part |
|----------------|------------------|------------|----------|
| Adv. VGA board | 002340<br>002220 | 126656-001 | 93F8825  |
| QVision 1024/E | 001924           | 126654-001 | 93F8348  |

### Internal Hard Drive

| Size          | Type | ROM    | OEM Part   | IBM Part |
|---------------|------|--------|------------|----------|
| 120MB         | 50   | 081491 | 116806-001 | 93F8181  |
| 210MB         | 51   | 081491 | 124013-001 | 93F7865  |
| 320MB         | 28   | 081491 | 115182-001 | 93F7867  |
| 340MB         | 63   | 080291 | 128141-001 | 93F9528  |
| 510MB         | 61   | 080291 | 128142-001 | 93F7869  |
| 650MB*        | 41   | 081491 | 115181-001 | 93F7870  |
| 1.05GB SCSI-2 | N/A  | N/A    | 142039-001 | 90G6448  |

HD exp. unit controller assembly WD1009/001628, WD1009.

\* Use type 49 with MS DOS, 42 with OS/2, 41 with SCO.

### Hard Drive Array Pairs

| Description      | Pairs         | OEM Part   | IBM Part |
|------------------|---------------|------------|----------|
| Drive/array size | 120MB/240MB   | 116806-001 | 93F8181  |
|                  | 210MB/420MB   | 116805-001 | 93F8182  |
|                  | 340MB/680MB   | 139964-001 | 20H8552  |
|                  | 510MB/1.02GB* | 139965-001 | 20H8553  |

Kits do not contain mounting hardware. HD array mounting bracket OEM Part: 128180-001, IBM Part: 48H6057. \* If more than three drives are installed use thermal upgrade kit.

### System Boards

| System Bds. | Assembly      | OEM Part   | IBM Part |
|-------------|---------------|------------|----------|
| 386/25      | 002028/002292 | 129157-001 | 93F7079  |
| 386/33      | 002031        | 129419-001 | 93F7265  |
| 486SX/25    | 002316/002300 | 129126-001 | 93F7350  |
| 486/33      | 002319/002297 | 129127-001 | 93F7349  |
| 486DX2/66   | 002431        | 129430-001 | 48H6102  |
| 486DX2/50   | 002025        | 129128-001 | 93F8824  |
| System brd. | 002268        | 134875-001 | 93F7077  |

### Diskette Drives

| Description | 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.

### CD ROM Drives

| Description        | OEM Part   | IBM Part |
|--------------------|------------|----------|
| Internal tray load | 142223-001 | 20H8472  |
| External tray load | 199430-001 | 20H8471  |

### Tape Drives

| Description                   | OEM Part   | IBM Part |
|-------------------------------|------------|----------|
| 80/120MB 1/3 ht, w/cmprssn.   | 131337-001 | 93F8241  |
| 80/120MB 1/2 ht, w/ cmprssn.  | 122087-001 | 93F8246  |
| 120/250MB 1/2 ht, w/ cmprssn. | 197490-001 | 20H8465  |
| 150/250MB                     | 115220-001 | 93F7891  |
| 320/525MB                     | 116804-001 | 93F7885  |
| 1.3/2.0GB DAT                 | 131149-001 | 93F8347  |

### Processor/Coprocessor Locations

| Processor | Coprocessor | Processor Board          |
|-----------|-------------|--------------------------|
| U8        | U22         | 386/25 (002028,002292)   |
| U7        | N/A         | 486SX/25 (002316,002300) |
| U7        | N/A         | 486/33 (002319,002297)   |
| U1        | U2          | 486DX2/50 (002025)       |

### System ROM Revisions

(OEM Part 137302-001, IBM Part 48H6519)

| Revision | Number on ROM |
|----------|---------------|
| 080291   | 129186-004    |
| 081491   | 129186-006    |
| 092791   | 129186-007    |
| 012392   | 139773-002    |
| 022592   | 139773-003    |
| 052892   | 139995-001    |
| 062692   | 139995-002    |
| 043093   | 139995-003    |

### System ROM Location

| Description           | Location |
|-----------------------|----------|
| System Board (002268) | U61      |

## Field Replaceable Units, continued

### Cables

| Description                        | 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)      | 119510-001 | 93F7082  |
| Hard drive power (L1/L2 dual)      | 116936-001 | 93F7087  |
| Hard drive signal (L1/L2 dual)     | 116942-001 | 93F7084  |
| Hard drive sig. (L3/L4 rear dual)  | 116937-001 | 93F7086  |
| Hard drive power (L3/L4 Dual)      | 116935-001 | 93F7210  |
| Hard drive sig. (L3/L4 front dual) | 116938-001 | 93F7208  |
| Dual AUI breakout                  | 197134-001 | 20H8727  |
| DualPort ENET Loop                 | 142254-001 | 20H8725  |
| Tape Pwr. (150/250-320/525MB)      | 116932-001 | 93F7089  |
| Tape Power (1.3/2.0GB)             | 120591-001 | 93F7228  |
| Tape signal (150/250MB)            | 116931-001 | 93F7090  |
| Tape sig. (320/525 & 1.3/2.0GB)    | 116933-001 | 93F7088  |

### Miscellaneous

| Description      | Assembly          | OEM Part   | IBM Part |
|------------------|-------------------|------------|----------|
| Serial/Parallel  | 000570/<br>000990 | 106886-001 | 93F7110  |
| 96/2400 fax mdm. |                   | 197458-001 | 20H8475  |
| Speedpaq 144/I   | 003002            | 147453-001 | 55H1777  |
| Server Mngr./R * | 001897            | 125726-001 | 93F8829  |
| Power supply     |                   | 116798-001 | 93F7098  |
| Battery          |                   | 126570-001 | 93F8180  |

\* Authorized resellers only, requires ROM ver. 8.6 or higher.