

# AlphaServer DS20

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## Illustrated Parts Breakdown

Order Number: EK-ADS20-IP. B01

**Compaq Computer Corporation**  
**Maynard, Massachusetts**

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Please reference EK-ADS20-IP, B01 in your correspondence.

# ILLUSTRATED PARTS BREAKDOWN

## AlphaServer DS20

### ILLUSTRATED PARTS BREAKDOWN (IPB)

The IPB is used to identify a part and its location in a hardware product. The document references specific item numbers in the associated parts list.

#### HOW TO USE THE IPB

1. Locate the figure containing the item of interest.
2. Locate the number (callout) of the item of interest.
3. Locate that item number in the associated parts list.

#### FORMAT

Each IPB is generally organized based on its first figure. All other assemblies and subassemblies are referenced from this figure. Each figure contains numeric callouts of all major parts (items).

#### PARTS LIST

Each parts list contains the following:

**Figure and Item No.** - Lists the figure number and its referenced numeric callout

**Description** - Presents the name and a brief description of the item. A single asterisk (\*) preceding the description denotes item is a

subassembly to its referenced figure. A double asterisk (\*\*) preceding the description indicates that this item is subordinate to the preceding single asterisk item.

**DIGITAL Part No.** - Lists the DIGITAL/Vendor part number. The letter in the column heading indicates the current revision level of the Engineering Drawing for the referenced figure.

**ECO Cut-In** - Lists the top assembly drawing number and revision level at first printing. All additional revisions to an item are listed in this column.

**Used On Code** - Lists letters referring to the product variation assigned in Figure 1. When this column is blank, the item is used in all variations.

**Ref Fig No.** - Lists a cross reference between figures within the IPB.

#### PART NUMBER/PART DESCRIPTION INDEX SECTION

Lists items by part number numerically, and description alphabetically. Items are also referenced to a location within the IPB by figure and item number.

### ECO/REVISION HISTORY

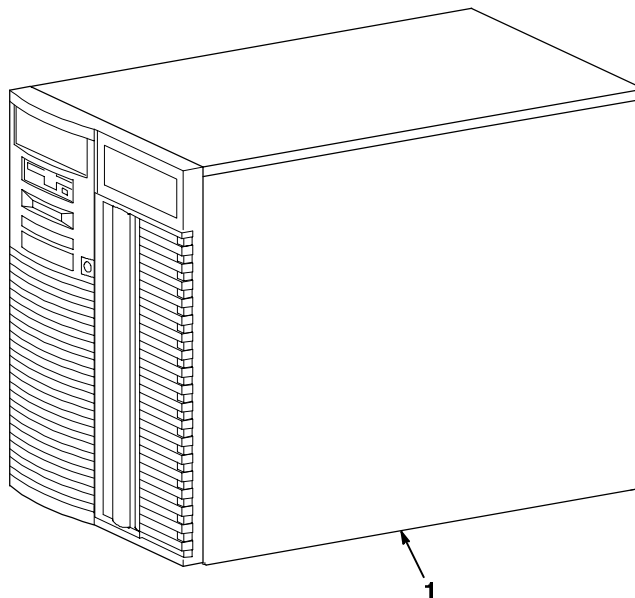
### OTHER IPB MANUALS REFERENCED

| FIGURE NO. | ASSEMBLY | INITIAL LEVEL | CURRENT LEVEL | PRINTING DATE | OTHER IPB MANUALS REFERENCED |
|------------|----------|---------------|---------------|---------------|------------------------------|
| 1          | DH55NJA  | 00001         | 00002         | MAY 1999      | N/A                          |
| 2          | 55NJA    | 00000         | 00001         |               |                              |
| 3          | 55ZJA    | 00001         | TWO001        |               |                              |
| 4          | 30-50096 | 00000         | 00003         |               |                              |



| FIG.&<br>ITEM<br>NO. | DESCRIPTION                                                         | DIGITAL<br>PART NO. <sup>C</sup> | ECO<br>CUT-IN<br>DH55NJA<br>00002 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|----------------------|---------------------------------------------------------------------|----------------------------------|-----------------------------------|--------------------|-------------------|
| 1-                   | AlphaServer DS20 6/500 DISTRIBUTOR                                  | DH55NJA-AA                       |                                   |                    |                   |
| 1                    | *AlphaServer DS20 6/500 KERNEL ASSEMBLY                             | 55NJA-AA                         |                                   |                    | 2                 |
| 2                    | *Mouse, 3-Button (Not Shown)                                        | 30-46117-03                      |                                   |                    |                   |
| 3                    | *Power Cord, 125V 75 Inch (Not Shown)                               | 17-00083-39                      |                                   |                    |                   |
| 4                    | *Kit, Compaq AlphaServer 1400 Documentation<br>Software (Not Shown) | 75-00284-01                      |                                   |                    |                   |
| 5                    | *AlphaServer NTA SRL/RX23 Packaging<br>(Not Shown)                  | QB-4FAAC-SA                      |                                   |                    |                   |

  INDICATES FRU LEVEL PARTS.

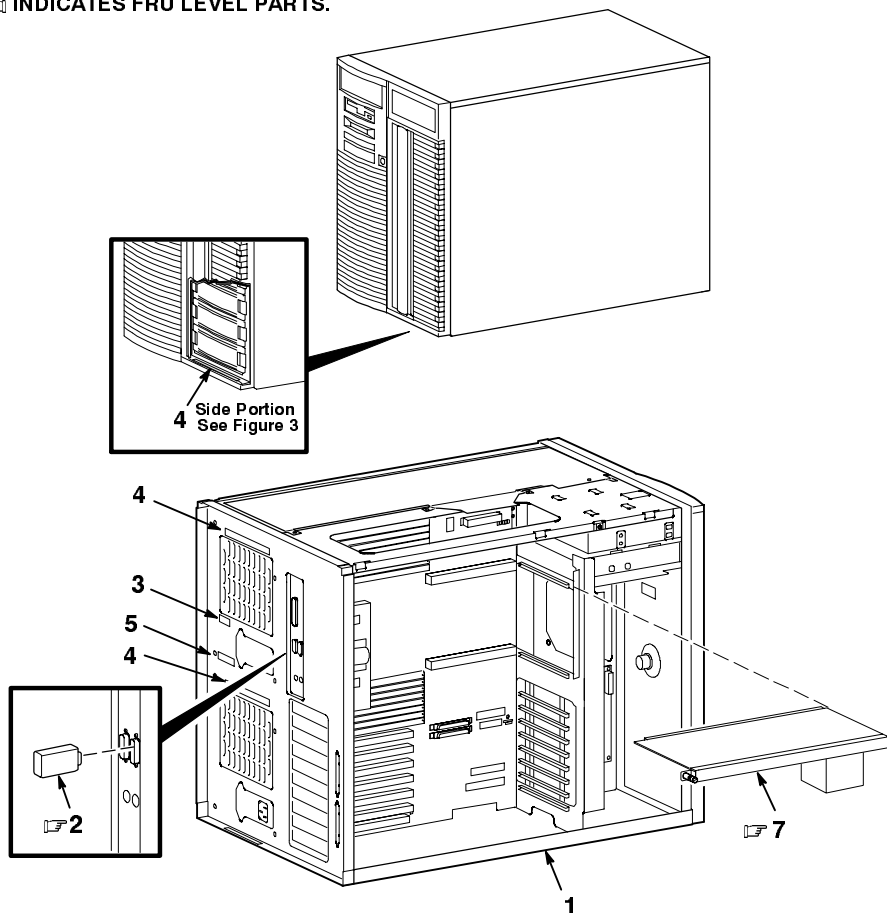


IP-DH55NJA-01

*Figure 1. AlphaServer DS20 6/500 Distributor*

| FIG.&<br>ITEM<br>NO.                                                                | DESCRIPTION                            | DIGITAL<br>PART NO. | ECO<br>CUT-IN<br>DS55NJA<br>00001 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-------------------------------------------------------------------------------------|----------------------------------------|---------------------|-----------------------------------|--------------------|-------------------|
| 2-                                                                                  | AlphaServer DS20 6/500 KERNEL ASSEMBLY | 55NJA-AA            |                                   |                    | 1                 |
| 1                                                                                   | *AlphaServer DS20 KERNEL               | 55ZJA-AA            |                                   |                    | 3                 |
|  2 | *Adaptor, 9 Pin PC-Ser PRTR            | H8571-J             |                                   |                    |                   |
| 3                                                                                   | *Label, "CE Mark"                      | 36-36842-10         |                                   |                    |                   |
| 4                                                                                   | *Label, "Composite Set" Blank          | 36-43278-01         |                                   |                    |                   |
| 5                                                                                   | *Label, "SMA C-Tick Mark"              | 36-48270-01         |                                   |                    |                   |
| 6                                                                                   | *Package Assembly (Not Shown)          | 37-01507-02         |                                   |                    |                   |
|  7 | *Module, Alpha DP264 Daughter Card     | 54-24758-03         |                                   |                    |                   |

  INDICATES FRU LEVEL PARTS.



IP - 55NJA - 01

**Figure 2. AlphaServer DS20 6/500 Kernel Assembly**

INDICATES FRU LEVEL PARTS.

PARTS LIST

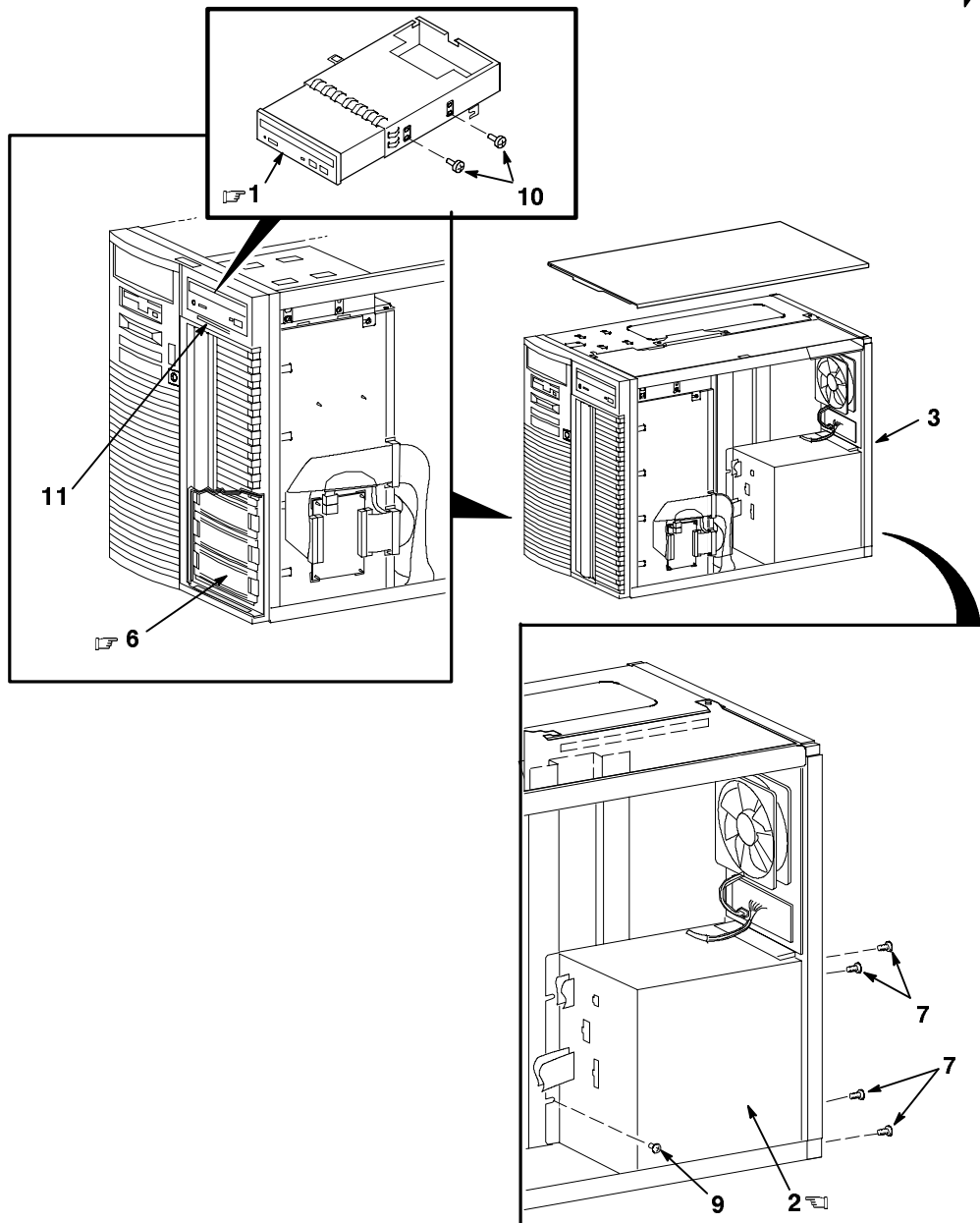
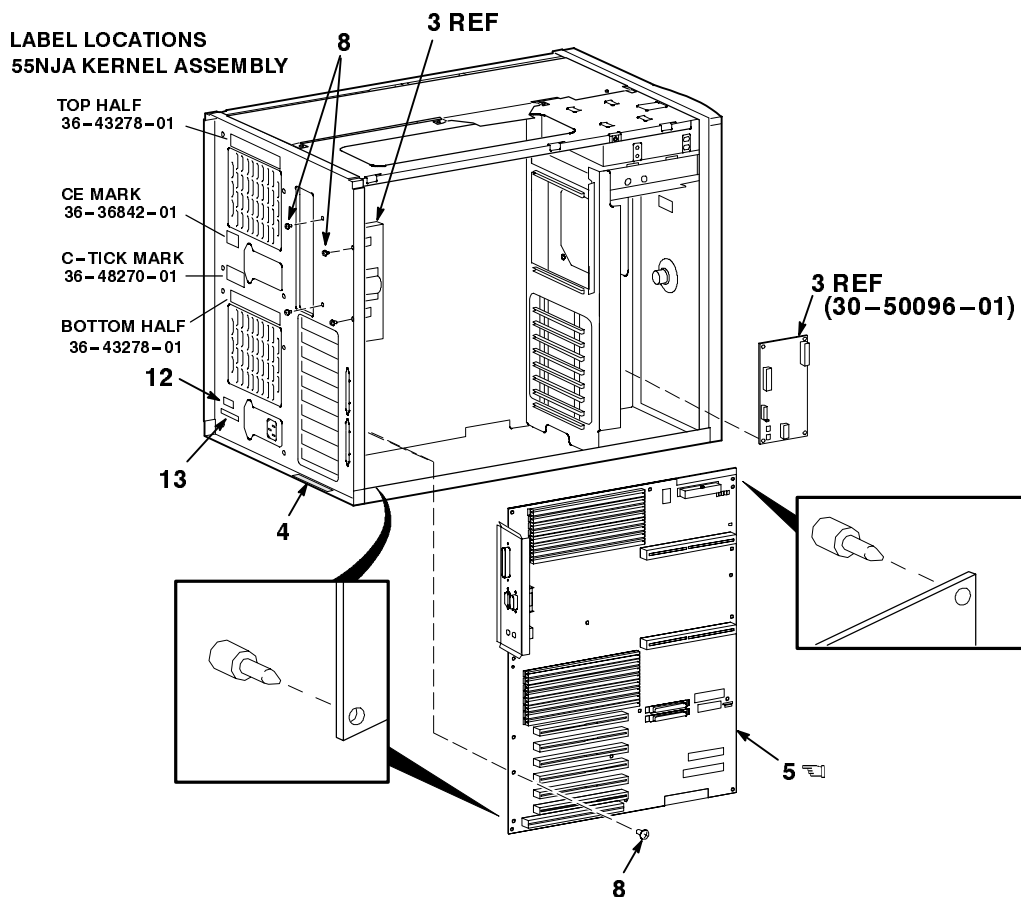


Figure 3. AlphaServer DS20 w/o CPU/Memory or I/O (Sheet 1 of 4) IP-55ZJA-01

INDICATES FRU LEVEL PARTS.

PARTS LIST

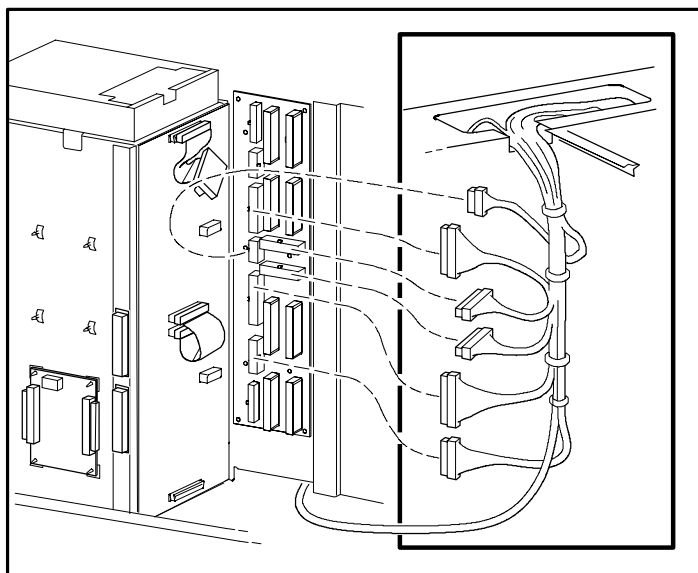
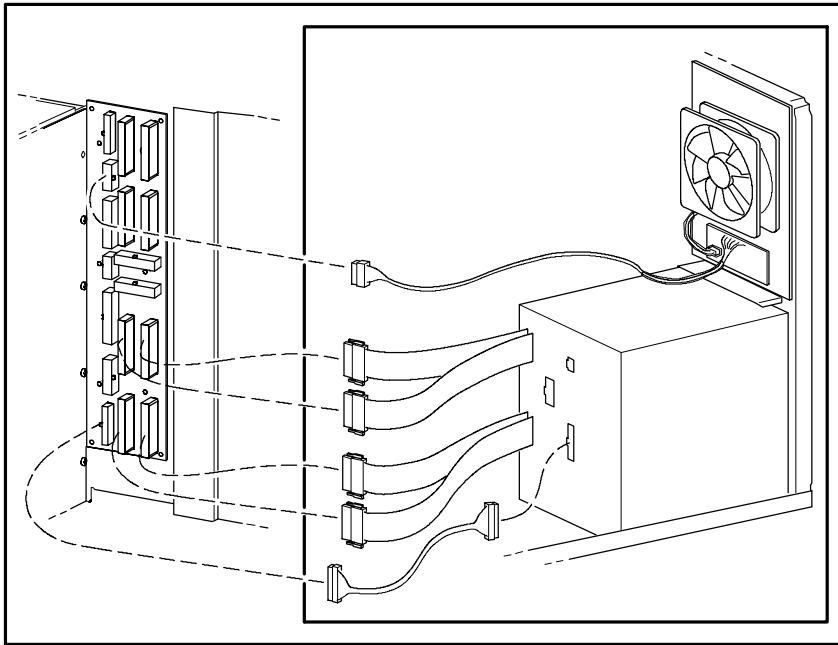


IP-55ZJA-02

Figure 3. AlphaServer DS20 w/o CPU/Memory or I/O (Sheet 2 of 4)

INDICATES FRU LEVEL PARTS.

PARTS LIST

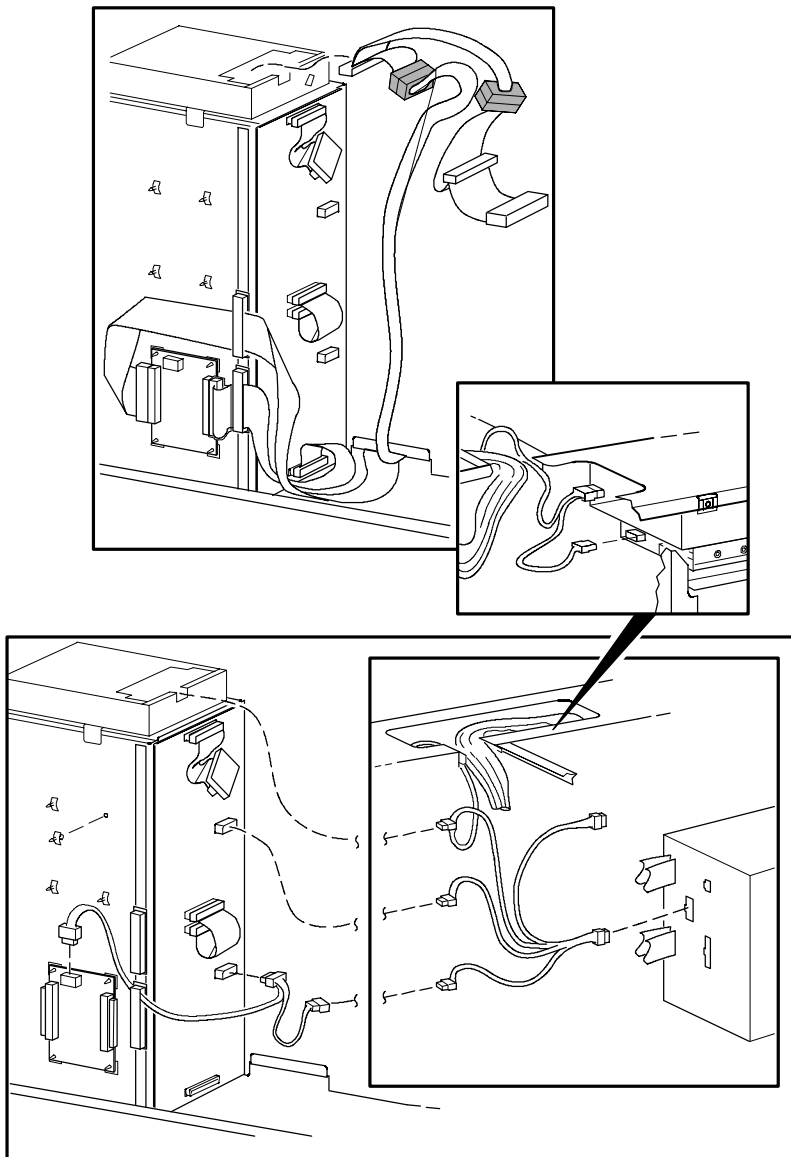


IP-55ZJA-03

Figure 3. AlphaServer DS20 w/o CPU/Memory or I/O (Sheet 3 of 4)

  INDICATES FRU LEVEL PARTS.

PARTS LIST 



IP-55JZA-03

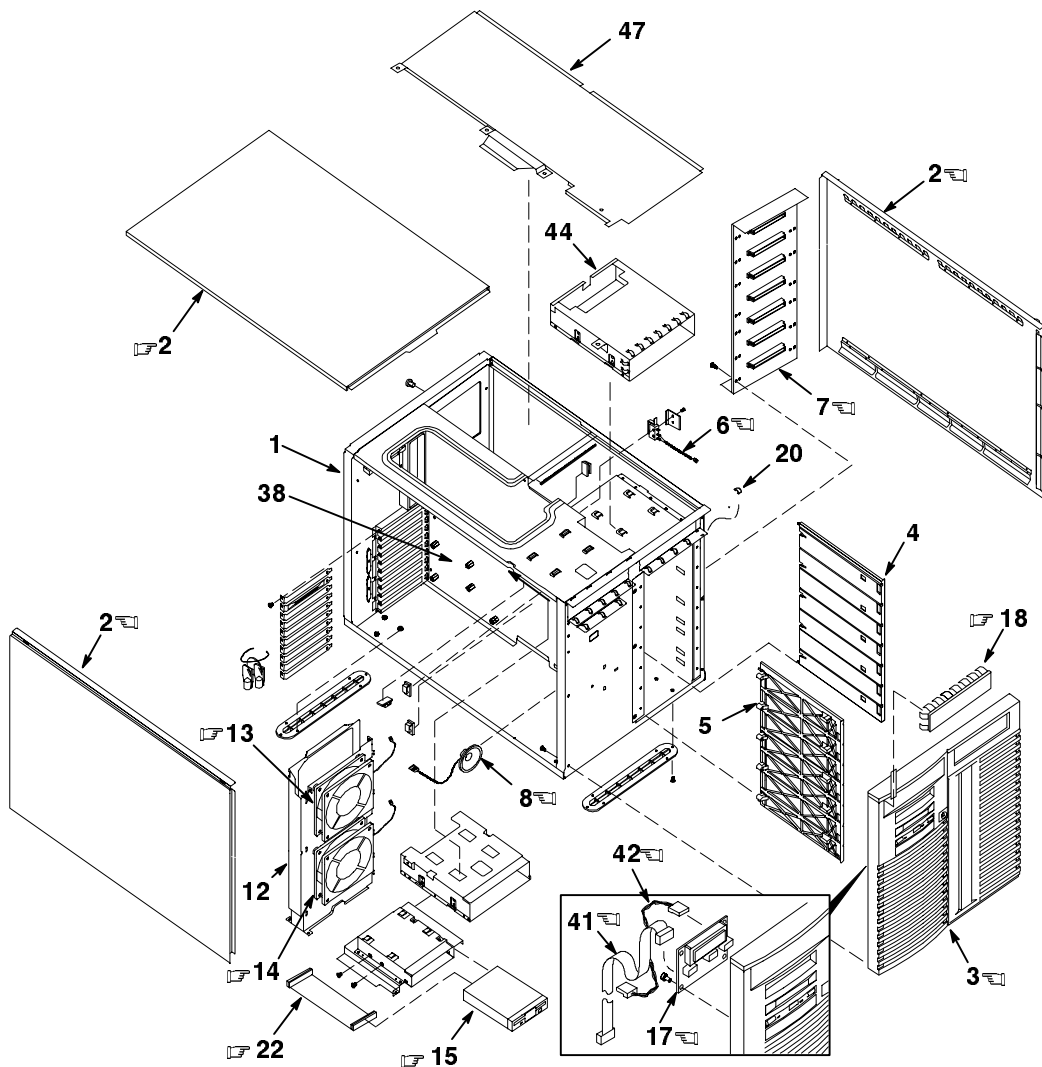
**Figure 3. AlphaServer DS20 w/o CPU/Memory or I/O (Sheet 4 of 4)**

| FIG.&<br>ITEM<br>NO.                                                                | DESCRIPTION                                | DIGITAL<br>PART NO. <sup>C</sup> | ECO<br>CUT-IN<br>55ZJA<br>TWO001 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|-------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|----------------------------------|--------------------|-------------------|
| 3-                                                                                  | AlphaServer DS20 w/o CPU/Memory or I/O     | 55ZJA-AA                         |                                  |                    | 2                 |
|  1 | *CD-ROM (32X) SCSI TG Blue                 | RRD47-AC                         |                                  |                    | 4                 |
|  2 | *Power Supply, 675W Active                 | 30-48043-01                      |                                  |                    |                   |
| 3                                                                                   | *ENCLOSURE, SYSTEM BOX                     | 30-50096-01                      |                                  |                    |                   |
| 4                                                                                   | *Label, "AlphaServer DS20"                 | 36-37522-13                      |                                  |                    |                   |
|  5 | *Module, AlphaDP264 Planar, 21271 Chip Set | 54-24756-02                      |                                  |                    |                   |
|  6 | *Bezel, TG Blue Blank                      | 74-45644-03                      |                                  |                    |                   |
| 7                                                                                   | *Screw, Sems Pan Hd M4 x 8 mm              | 90-09984-19                      |                                  |                    |                   |
| 8                                                                                   | *Screw, Pan Hd M3 x 6 mm                   | 90-09984-20                      |                                  |                    |                   |
| 9                                                                                   | *Screw, Sems Pan Hd M3.5 x 8 mm            | 90-09984-29                      |                                  |                    |                   |
| 10                                                                                  | *Screw, Mach Pan Hd M3 x 4 mm              | 90-10961-01                      |                                  |                    |                   |
| 11                                                                                  | *Label, "AlphaPowered"                     | 36-49200-03                      |                                  |                    |                   |
| 12                                                                                  | *Label, "BCIQ Warning"                     | 36-49420-01                      |                                  |                    |                   |
| 13                                                                                  | *Label, "BCIQ Approval, DS20"              | 36-49421-96                      |                                  |                    |                   |



INDICATES FRU LEVEL PARTS.

PARTS LIST

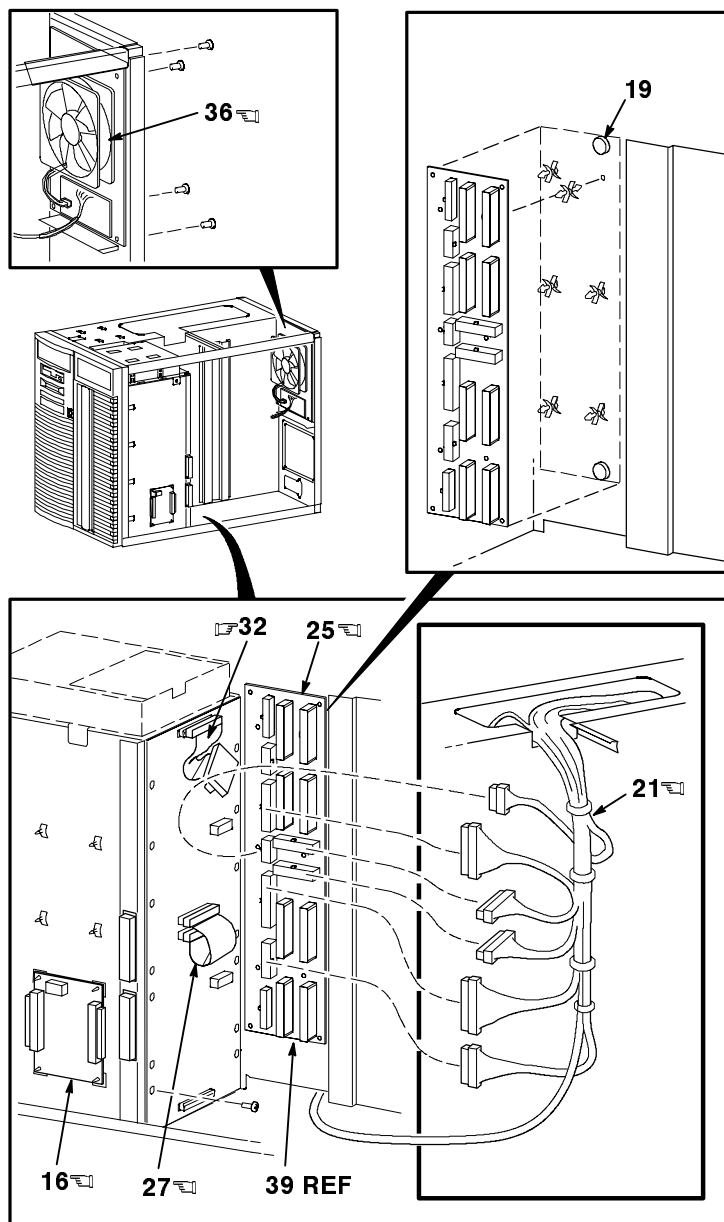


IP-3050096-01

Figure 4. System Box Enclosure Assembly (Sheet 1 of 7)


 INDICATES FRU LEVEL PARTS.

PARTS LIST 



IP3050096-02

Figure 4. System Box Enclosure Assembly (Sheet 2 of 7)

INDICATES FRU LEVEL PARTS.

PARTS LIST

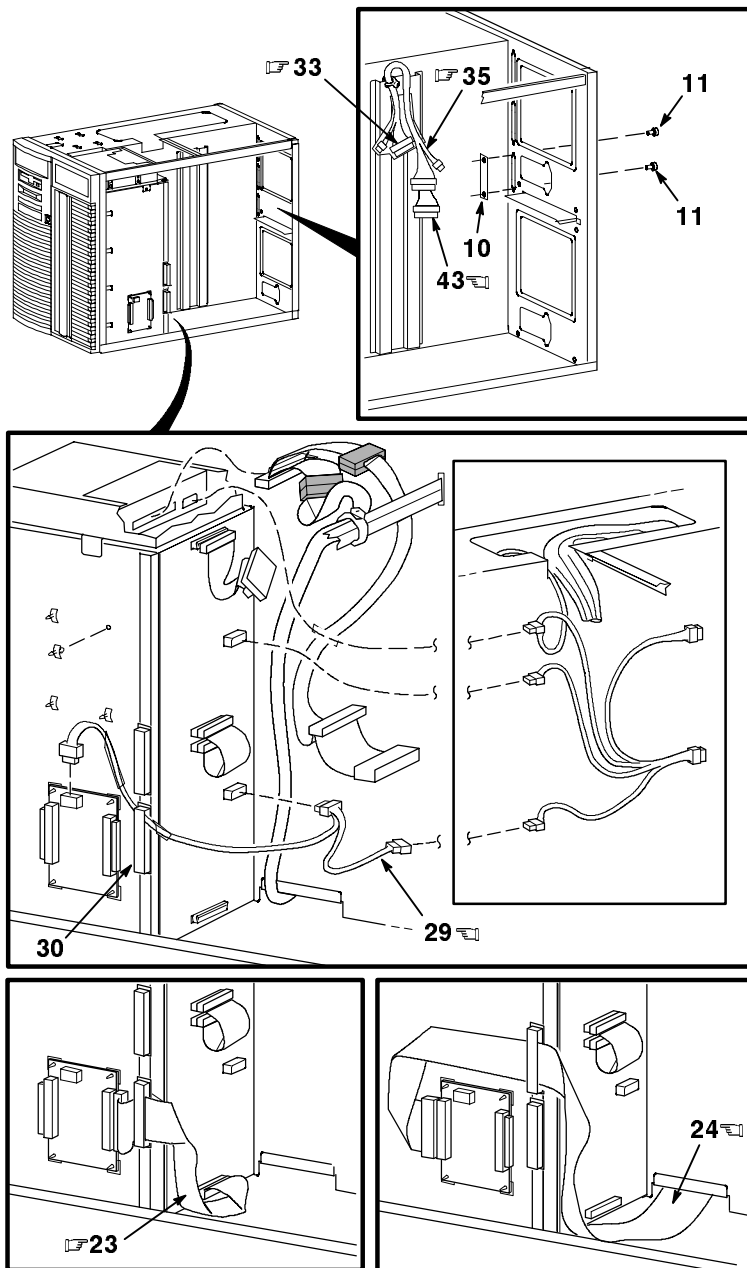
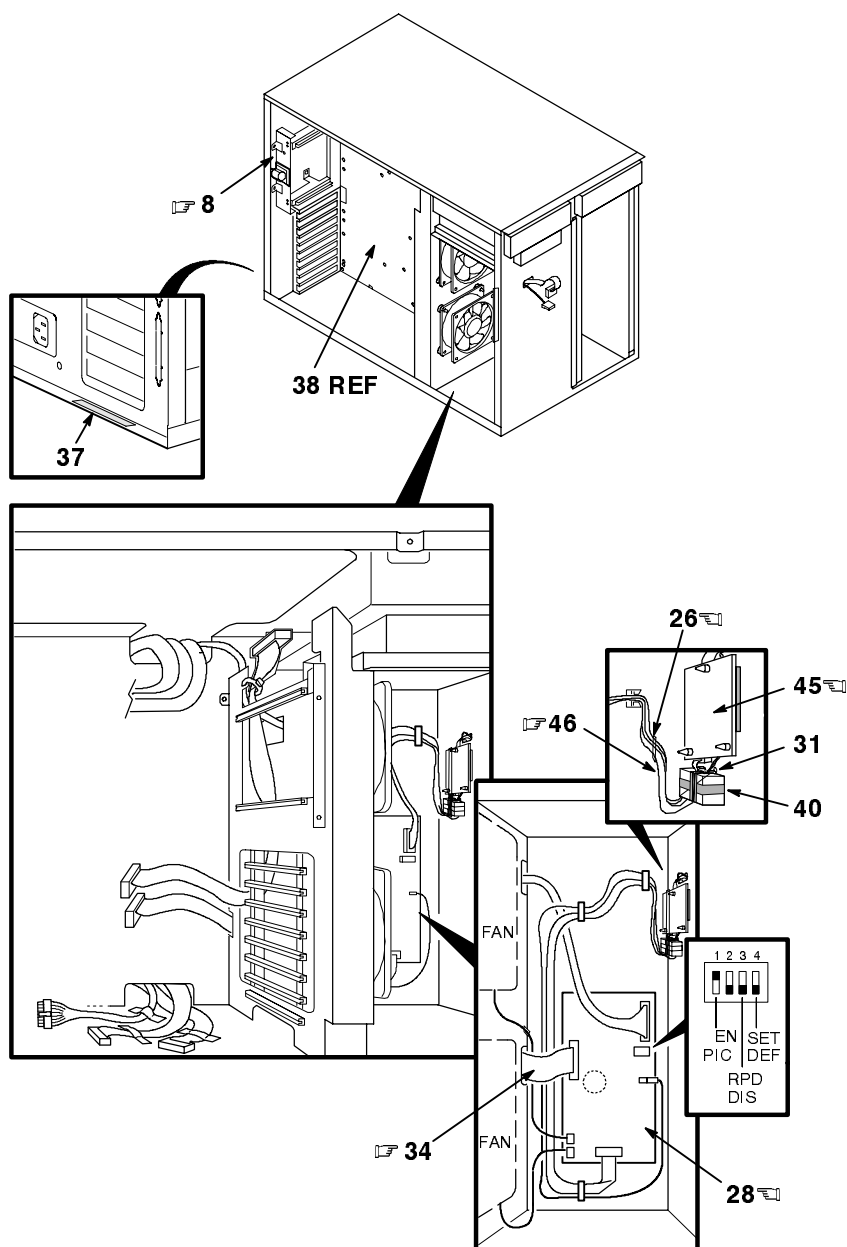


Figure 4. System Box Enclosure Assembly (Sheet 3 of 7)

IP-3050096-03

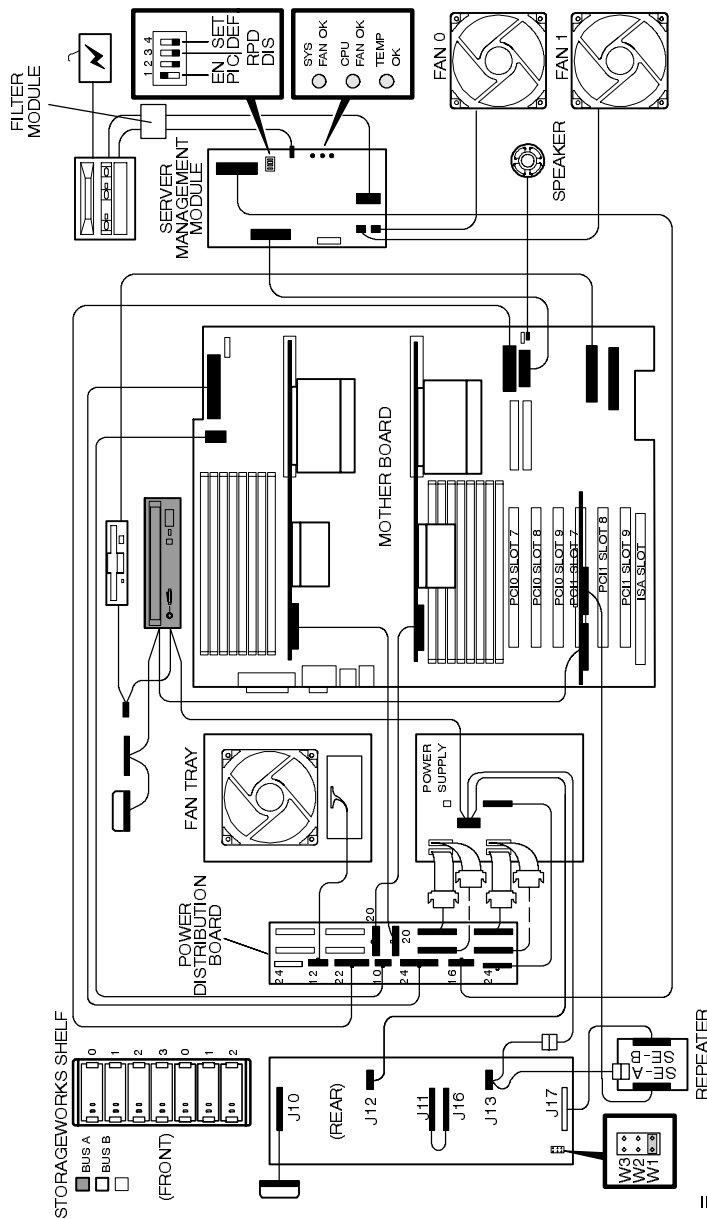

 INDICATES FRU LEVEL PARTS.

PARTS LIST



IP-3050096-04

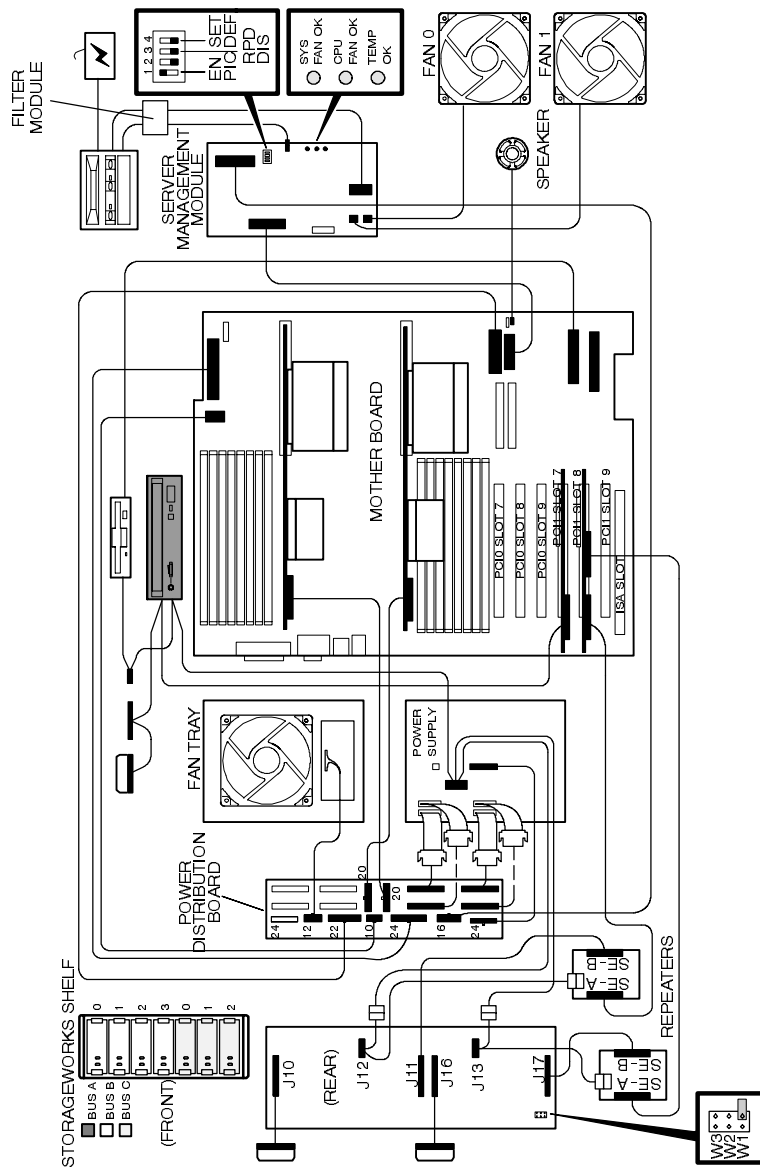
Figure 4. System Box Enclosure Assembly (Sheet 4 of 7)



PARTS LIST

### Dual Port Controller UltraSCSI Configuration

Figure 4. System Box Enclosure Assembly (Sheet 5 of 7)

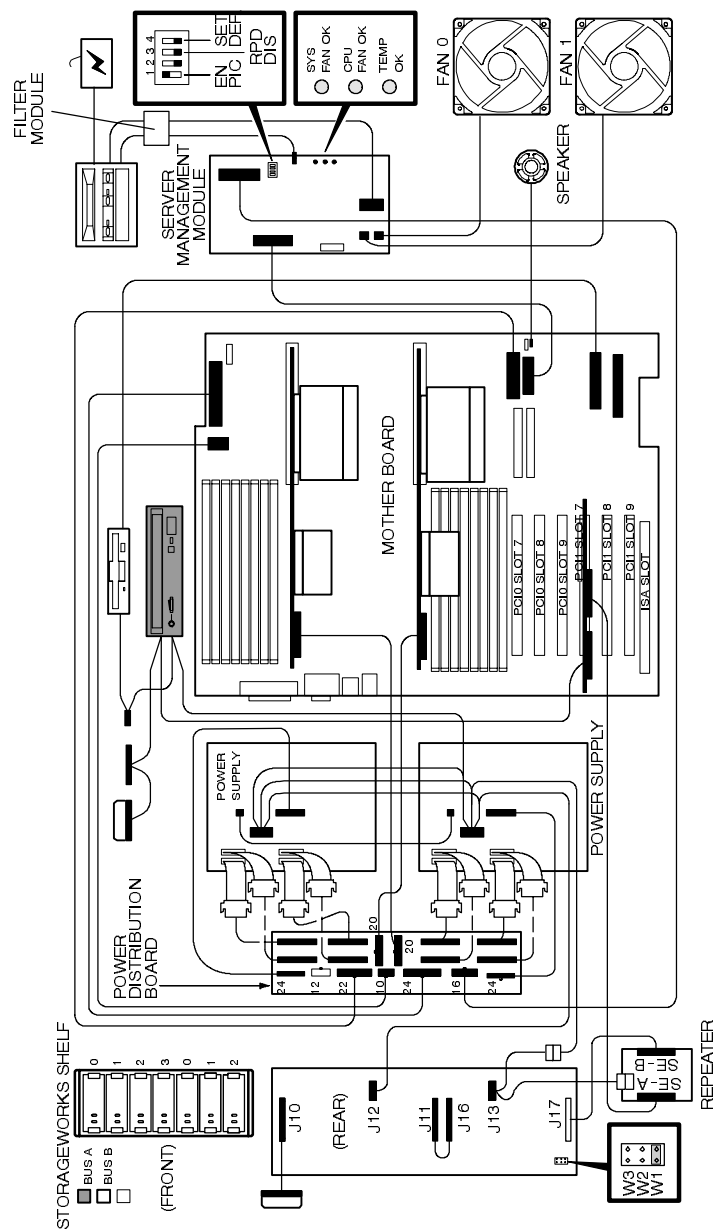


PARTS LIST

Optional Triple Controller Split Backplane UltraSCSI Configuration

IP-55ZJA-05

Figure 4. System Box Enclosure Assembly (Sheet 6 of 7)



PARTS LIST

Optional Dual Power Supply N+1 Configuration

IP-55ZJA-06

Figure 4. System Box Enclosure Assembly (Sheet 7 of 7)

| FIG.&<br>ITEM<br>NO. | DESCRIPTION                                                                      | D<br>DIGITAL<br>PART NO. | ECO<br>CUT-IN<br>3050096<br>00003 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|----------------------|----------------------------------------------------------------------------------|--------------------------|-----------------------------------|--------------------|-------------------|
| 4-                   | ENCLOSURE, SYSTEM BOX                                                            | 30-50096-01              |                                   |                    | 3                 |
| 1                    | *Frame Assembly, Main                                                            | 70-33336-02              |                                   |                    |                   |
| 2                    | *Cover Assembly, (Top/Both Sides)                                                | 70-31347-02              |                                   |                    |                   |
| 3                    | *Panel Assembly (Front)                                                          | 70-31345-03              |                                   |                    |                   |
| 4                    | *Frame, Storage (Right)                                                          | 74-48642-03              |                                   |                    |                   |
| 5                    | *Frame, Storage (Left)                                                           | 74-48642-04              |                                   |                    |                   |
| 6                    | *Microswitch Assembly                                                            | 70-31348-01              |                                   |                    |                   |
| 7                    | *Backplane, StorageWorks                                                         | 54-23365-02              |                                   |                    |                   |
| 8                    | *Speaker Assembly                                                                | 70-31349-01              |                                   |                    |                   |
| 9                    | *Bracket, Rear Assembly                                                          | 70-33807-01              |                                   |                    |                   |
| 10                   | *Cover, 50-Pin                                                                   | 74-48804-02              |                                   |                    |                   |
| 11                   | *Screw, Pan Hd, M3 x 6 mm                                                        | 90-09984-20              |                                   |                    |                   |
| 12                   | *Bracket Assembly, Fan Shield                                                    | 70-33886-01              |                                   |                    |                   |
| 13                   | *Fan Assembly (120 mm)                                                           | 70-31351-01              |                                   |                    |                   |
| 14                   | *Fan Assembly (120 mm)                                                           | 70-31351-02              |                                   |                    |                   |
| 15                   | *Floppy Drive, 3.5 Inch (1.44 MB)                                                | RX23L-AC                 |                                   |                    |                   |
| 16                   | *Module, SCSI Bus Extender                                                       | 30-48985-01              |                                   |                    |                   |
| 17                   | *Module, OCP                                                                     | 54-23302-02              |                                   |                    |                   |
| 18                   | *Cover, Panel, 5 1/4 Inch                                                        | 74-49537-02              |                                   |                    |                   |
| 19                   | *Bumper, Round Rubber (Adhesive Backed)                                          | 90-11461-01              |                                   |                    |                   |
| 20                   | *Clip, EMI Ground                                                                | 74-46487-01              |                                   |                    |                   |
| 21                   | *CABLE ASSEMBLY, DC POWER SUPPLY                                                 | 70-33578-01              |                                   |                    |                   |
| 21A                  | **Harness, Power Transition Module to Server<br>Management Module                | 17-04789-01              |                                   |                    |                   |
| 21B                  | **Harness, Power Transition Module to Top<br>Connector on Mother Board           | 17-04788-01              |                                   |                    |                   |
| 21C                  | **Harness, Power Transition Module to Top<br>of Mother Board                     | 17-04792-01              |                                   |                    |                   |
| 21D                  | **Harness, Power Transition Module to Bottom<br>of CPU Module                    | 17-04790-01              |                                   |                    |                   |
| 21E                  | **Harness, Power Transition Module to Top of<br>CPU Module                       | 17-04790-02              |                                   |                    |                   |
| 21F                  | **Harness, Power Transition Module to Bottom<br>of Mother Board                  | 17-04791-01              |                                   |                    |                   |
| 21G                  | **Harness, Power Supply to Storage Backplane<br>and CD (12-Pin)                  | 17-03969-01              |                                   |                    |                   |
| 21H                  | **Tie, Cable (Not Shown)                                                         | 90-09617-00              |                                   |                    |                   |
| 21I                  | **Tape, Vinyl (Not Shown)                                                        | 90-08335-01              |                                   |                    |                   |
| 21J                  | **Label, Cable Assembly (Not Shown)                                              | 36-24502-09              |                                   |                    |                   |
| 22                   | *Cable, Floppy Drive (34-Pin)                                                    | 17-03970-01              |                                   |                    |                   |
| 23                   | *Cable, SCSI, 68 Cond. (StorageWorks to SCSI<br>Bus Extender Module)             | 17-04022-03              |                                   |                    |                   |
| 24                   | *Cable, SCSI, 68 Cond. (SCSI Bus Extender<br>Module to SCSI Bus Controller Card) | 17-04890-01              |                                   |                    |                   |

| FIG.&<br>ITEM<br>NO. | DESCRIPTION                                                                              | D<br>DIGITAL<br>PART NO. | ECO<br>CUT-IN<br>3050096<br>00003 | USED<br>ON<br>CODE | REF<br>FIG<br>NO. |
|----------------------|------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|--------------------|-------------------|
| 4-                   | ENCLOSURE, SYSTEM BOX (continued)                                                        |                          |                                   |                    |                   |
| ☞ 25                 | *Module, Power Distribution                                                              | 54-25588-01              |                                   |                    |                   |
| ☞ 26                 | *Cable, OCP Module (10-Pin)                                                              | 17-03971-06              |                                   |                    |                   |
| ☞ 27                 | *Cable, Internal StorageWorks Jumper (68-Pin)<br>Controller Card)                        | 17-04021-01              |                                   |                    |                   |
| ☞ 28                 | *Module, Server Management                                                               | 54-25580-01              |                                   |                    |                   |
| ☞ 29                 | *Harness, 4 Cond. (SCSI Bus Extender Module<br>to StorageWorks)                          | 17-04700-01              |                                   |                    |                   |
| 30                   | *Clamp, Cable (Adhesive Mount)                                                           | 12-44237-01              |                                   |                    |                   |
| 31                   | *Tie, Cable                                                                              | 90-10152-00              |                                   |                    |                   |
| ☞ 32                 | *Cable, Flat, w/Terminator                                                               | 17-04795-01              |                                   |                    |                   |
| ☞ 33                 | *Harness, 24 Cond.                                                                       | 17-04735-01              |                                   |                    |                   |
| ☞ 34                 | *Harness, 20 Cond.                                                                       | 17-04796-01              |                                   |                    |                   |
| ☞ 35                 | *Harness, 4 Cond. (Current Share Cable For<br>Two Power Supplies)                        | 17-04532-01              |                                   |                    |                   |
| ☞ 36                 | *Fan Assembly                                                                            | 70-33195-02              |                                   |                    |                   |
| 37                   | *Label, Battery Disposal                                                                 | 36-43295-01              |                                   |                    |                   |
| 38                   | *Plate, Mother Board Mount                                                               | 74-53412-01              |                                   |                    |                   |
| ☞ 39                 | *Cable, SCSI 50 Cond. (SCSI Controller Card to<br>CD and Tape)                           | 17-04685-02              |                                   |                    |                   |
| 40                   | *Tape, Vinyl (As Required)                                                               | 90-08335-01              |                                   |                    |                   |
| ☞ 41                 | *Cable, 10 Cond., Flat, 5 Inch (Filter to OCP)                                           | 17-03971-08              |                                   |                    |                   |
| ☞ 42                 | *Harness, 4 Cond., 5 Inch, (Filter to OCP)                                               | 17-04684-01              |                                   |                    |                   |
| ☞ 43                 | *Harness, w/Diode (Power Distribution Module<br>to Second Power Supply Only)             | 17-04735-02              |                                   |                    |                   |
| 44                   | *CD Tray                                                                                 | 70-40193-01              |                                   |                    |                   |
| ☞ 45                 | *OCP Filter                                                                              | 54-25203-01              |                                   |                    |                   |
| ☞ 46                 | *Harness, 4 Cond., (From OCP Filter to Server<br>Management Module and Interlock Switch) | 17-04933-01              |                                   |                    |                   |
| 47                   | *Shield, Cover                                                                           | 74-60413-01              |                                   |                    |                   |

**PART NUMBER/DESCRIPTION INDEX** 

## INDEX BY DIGITAL PART NUMBER

AlphaServer DS20

| PART<br>NUMBER | DESCRIPTION                                                                        | FIG.-ITEM<br>NUMBER |
|----------------|------------------------------------------------------------------------------------|---------------------|
| 12-44237-01    | Clamp, Cable (Adhesive Mount)                                                      | 4-30                |
| 17-00083-39    | Power Cord, 125V 75 Inch                                                           | 1-3                 |
| 17-03969-01    | Harness, Power Supply to Storage Backplane and<br>CD (12-Pin)                      | 4-21G               |
| 17-03970-01    | Cable, Floppy Drive (34-Pin)                                                       | 4-22                |
| 17-03971-06    | Cable, OCP Module (10-Pin)                                                         | 4-26                |
| 17-03971-08    | Cable, 10 Cond., Flat, 5 Inch (Filter to OCP)                                      | 4-41                |
| 17-04021-01    | Cable, Internal StorageWorks Jumper (68-Pin)                                       | 4-27                |
| 17-04022-03    | Cable, SCSI, 68 Cond. (StorageWorks to SCSI<br>Bus Extender Module)                | 4-23                |
| 17-04532-01    | Harness, 4 Cond. (Current Share Cable For Two P/S)                                 | 4-35                |
| 17-04684-01    | Harness, 4 Cond., 5 Inch (Filter to OCP)                                           | 4-42                |
| 17-04685-02    | Cable, SCSI 50 Cond. (SCSI Controller Card to CD<br>and Tape)                      | 4-39                |
| 17-04700-01    | Harness, 4 Cond. (SCSI Bus Extender Module to<br>StorageWorks)                     | 4-29                |
| 17-04735-01    | Harness, 24 Cond.                                                                  | 4-33                |
| 17-04735-02    | Harness, w/Diode (Power Distribution Module to Second<br>Power Supply Only)        | 4-43                |
| 17-04788-01    | Harness, Power Transition Module to Top Conn. on<br>Mother Board B                 | 4-21B               |
| 17-04789-01    | Harness, Power Transition Module to Server<br>Management Module                    | 4-21A               |
| 17-04790-01    | Harness, Power Transition Module to Bottom of CPU<br>Module                        | 4-21D               |
| 17-04790-02    | Harness, Power Transition Module to Top of CPU Module                              | 4-21E               |
| 17-04791-01    | Harness, Power Transition Module to Bottom of Mother<br>Board                      | 4-21F               |
| 17-04792-01    | Harness, Power Trans. Module to Top of Mother Board                                | 4-21C               |
| 17-04795-01    | Cable, Flat, w/Terminator                                                          | 4-32                |
| 17-04796-01    | Harness, 20 Cond.                                                                  | 4-34                |
| 17-04890-01    | Cable, SCSI, 68 Con. (SCSI Bus Extender Module to<br>SCSI Bus Controller Card)     | 4-24                |
| 17-04933-01    | Harness, 4 Cond., (From OCP Filter to Server Mgmt.<br>Module and Interlock Switch) | 4-46                |
| 30-46117-03    | Mouse, 3-Button (Not Shown)                                                        | 1-2                 |
| 30-48043-01    | Power Supply, 675W Active                                                          | 3-2                 |
| 30-48985-01    | Module, SCSI Bus Extender                                                          | 4-16                |
| 30-50096-01    | ENCLOSURE, SYSTEM BOX                                                              | 3-3, 4-N/A          |
| 36-24502-09    | Label, "Cable Assembly"                                                            | 4-21J               |
| 36-36842-10    | Label, "CE Mark"                                                                   | 2-3                 |
| 36-37522-13    | Label, "AlphaServer DS20"                                                          | 3-4                 |
| 36-43278-01    | Label, "Composite Set - Blank"                                                     | 2-4                 |
| 36-43295-01    | Label, "Battery Disposal"                                                          | 4-37                |
| 36-48270-01    | Label, "SMA C-Tick Mark"                                                           | 2-5                 |
| 36-49200-03    | Label, "AlphaPowered"                                                              | 3-11                |
| 36-49429-01    | Label, "BCIQ Warning"                                                              | 3-12                |
| 36-49421-96    | Label, "BCIQ Approval, DS20"                                                       | 3-13                |
| 37-01507-02    | Package Assembly (Not Shown)                                                       | 2-6                 |

## INDEX BY DIGITAL PART NUMBER

### AlphaServer DS20

| PART<br>NUMBER | DESCRIPTION                                    | FIG.-ITEM<br>NUMBER |
|----------------|------------------------------------------------|---------------------|
| 54-23302-02    | Module, OCP                                    | 4-17                |
| 54-23365-02    | Backplane, StorageWorks                        | 4-7                 |
| 54-24756-02    | Module, AlphaDP264 Planar, 21271 Chip Set      | 3-5                 |
| 54-24758-03    | Module, Alpha DP264 Daughter Card              | 2-7                 |
| 54-25203-01    | OCP Filter                                     | 4-45                |
| 54-25580-01    | Module, Server Management                      | 4-40                |
| 54-25588-01    | Module, Power Distribution                     | 4-39                |
| 55NJA-AA       | AlphaServer DS20 6/500 KERNEL ASSEMBLY         | 1-1, 2-N/A          |
| 55ZJA-AA       | AlphaServer DS20 KERNEL                        | 2-1                 |
| 55ZJA-AA       | AlphaServer DS20 w/o CPU/Memory or I/O         | 3-N/A               |
| 70-31345-03    | Panel Assembly (Front)                         | 4-3                 |
| 70-31347-02    | Cover Assembly, (Top/Both Sides)               | 4-2                 |
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| 74-46487-01    | Clip, EMI Ground                               | 4-20                |
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| 74-49537-02    | Cover, Panel, 5 1/4 Inch                       | 4-18                |
| 74-53412-01    | Plate, Mother Board Mount                      | 4-38                |
| 74-60413-01    | Shield, Cover                                  | 4-47                |
| 75-00284-01    | Kit, COMPAQ AlphaServer 1400 Software and Doc. | 1-4                 |
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| 90-09617-00    | Tie, Cable                                     | 4-21H               |
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| 90-09984-29    | Screw, Sems Pan Hd M3.5 x 8 mm                 | 3-9                 |
| 90-10152-00    | Tie, Cable                                     | 4-31                |
| 90-10961-01    | Screw, Mach Pan Hd M3 x 4 mm                   | 3-10                |
| 90-11461-01    | Bumper, Round Rubber (Adhesive Backed)         | 4-19                |
| DH55NJA-AA     | AlphaServer DS20 6/500 DISTRIBUTOR             | 1-N/A               |
| H8571-J        | Adaptor, 9 Pin PC-Ser PRTR                     | 2-2                 |
| QB-4FAAC-SA    | AlphaServer NTA SRL/RX23 Packaging (Not Shown) | 1-5                 |
| RRD47-AC       | CD-ROM (32X) SCSI TG Blue                      | 3-1                 |
| RX23L-AC       | Floppy Drive, 3.5 Inch (1.44 MB)               | 4-15                |

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| AlphaServer DS20 6/500 KERNEL ASSEMBLY                                               | 55NJA-AA       | 1-1, 2-N/A          |
| AlphaServer DS20 KERNEL                                                              | 55ZJA-AA       | 2-1                 |
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| Frame, Storage (Right)                                                               | 74-48642-03    | 4-4                 |
| Harness, Power Transition Module to Server Mgmt Module                               | 17-04789-01    | 4-21A               |
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| Tape, Vinyl                                                                  | 90-08335-01    | 4-21I, 4-40         |
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