

Deskpro EN

Small Form Factor – Front Mounted Audio

System/Processor Boards	Assembly	Spare Part
System Board w/ Tray, Pentium II/100, Celeron/66, Intel BX Chipset, Education Unit	010258-X01	118007-001
System Board w/ Tray, Celeron/100, Intel 810 Chipset	010123-X01	140513-001
System Board, 810e Chipset	010430-X01	161493-001
System Board, CuMine, Intel 810e Chipset	010769-X01	173096-001*
System Board w/ Tray, Pentium III, 820 Chipset	010120-X01	159766-001

*Spare part number 173906-001 must be used with processor speeds 533, 600 and above (processors with 133 MHz front side bus). Spare part number 173096-001 can be substituted for 161493-001.

Note: To avoid injury from electric shock and/or hot surfaces, unplug the AC power cord from the wall outlet and allow the internal components of the PC to cool before servicing the unit.

Configuration (010258-x01)

Jumper	Function	Setting	Description
E50 (440 BX) Jumper	Clear CMOS	1-2 2-3	To clear CMOS, move jumper from pins "1-2" to pins "2-3" for 60 seconds. Then, return jumper to original location.
E50 (Others) Button	Clear CMOS	NONE	To clear CMOS, locate CMOS button and press down for 5 seconds.

SW1, Password and Power Settings

S1 Password Control	S6 Power Switch
Disable Password = ON	ON: When connected to power, computer waits for user to press ON/OFF button before booting. Default.
Enable Password = OFF	OFF: When connected to power, computer will boot.

KEYBOARD LIGHT COMBINATIONS FOR FAILSAFE BOOT BLOCK

Num Lock	Caps Lock	Scroll Lock	Meaning and Required Action
OFF	ON	OFF	System requires setup password. Enter the setup password. The light remains on until a valid password is entered.
ON	OFF	OFF	System could not boot from ROMPaq diskette because it is not present, is bad, or drive is not ready. Insert a valid ROMPaq diskette, turn power off and back on.
OFF	OFF	ON	ROM upgrade failed. Try another ROMPaq diskette. If light remains on, contact Compaq Customer Support.
ON	ON	ON	ROM upgrade successfully completed. Turn power off and back on to resume normal operation.

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DIAGNOSTIC LEDS - KEYBOARD

Key	Beeps	Meaning and Required Action
Num Lock – Flashing	1 Short, 2 Long	System memory is absent. Ensure that compatible DIMMs are installed in the unit. If so, reseal the modules.
Caps Lock – Flashing	1 Long, 2 Short	Video graphics board is not installed or incorrectly initialized. Clear CMOS, and if the video board is present, remove and reseal.
Scroll Lock – Flashing	2 Long, 1 Short	System initialization failed and the unit cannot boot. The system configuration may be invalid. Clear CMOS and see the configuration label for jumper location and instructions.

DIAGNOSTIC LEDS (440 BX UNIT)

Power LED	Color	Meaning
Flashing	Green	The unit is on and power supply is providing power to the system.
Slow-Blinking	Green	The unit is in a low-power state.
Fast-Blinking	Green	Processor-initiated thermal shutdown has occurred.

DIAGNOSTIC LEDS (810, 810E, 820 UNITS AND KEYBOARD)

LED	Color	LED Activity	State/Message
Power	Green	On	Computer on
Power	Green	1 blink per second	Normal suspend mode
Power	Red	4 blinks per second	CPU thermal shutdown
Power	Red	On	CPU not installed or working
Power	Red	1 blink per second	ROM error
Power	Red	1 blink per two or more seconds	Power supply crow bar
Power and Hard Drive	Red	On	Riser board not seated
Caps Lock	Green	Flashing	No video
Scroll Lock	Green	Flashing	System board failure, prior to video

Configuration Code	Assembly	System Board Spare Part
CPL*	101258-101, -201	118007-001
CPV*	101258-101, -201	118007-001
CWD*	010123-012	140513-001
CWH*	010123-012	140513-001
CYX2 – CYX4	010502-101	152993-001
CY6*	010123-101	140513-001
CY8*	010123-101	140513-001
DBQ*	010120-X01	159766-001
DBR*	010120-X01	159766-001
DDQ*	010123-101	140513-001
DFL*	010430-101	161493-001
DFM*	010769-X01	173096-001

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Configuration Code	Assembly	System Board Spare Part
DHN	010120-X01	159766-001
DJN*	010430-101	161493-001
DJP*	010769-X01	173096-001
DJQ*	010769-X01	173096-001
DQG*	010769-X01	173096-001

*Denotes any combination precluded by the indicated initial three characters, that are EN SFF Front Mounted Audio units.

Microprocessors	Spare Part
400/66 w/ Heat Sink, Celeron	103468-001
400/66 w/ Heat Sink, P II	314225-001
450/100 w/ Heat Sink, P III	162845-001
466/66 w/ Heat Sink, Celeron	103747-001
500/66 w/ Heat Sink, Celeron	157930-001
500/100 w/ Heat Sink, P III	162846-001
533/133 w/ Heat Sink, P III, CuMine	162847-001
550/100 w/ Heat Sink, P III	152722-001
600/133 w/ Heat Sink, P III, CuMine	162848-001
667/133 w/ Heat Sink, P III, CuMine	158681-001
733/133 w/ Heat Sink, P III, CuMine	167138-001

Memory	Assembly	Spare Part
16 MB Video Memory	352766-004	159830-001
32 MB Memory Module, DIMM, 100 MHz		166890-001*
64 MB Memory Module, DIMM, 100 MHz		179190-001*
128 MB Memory Module, DIMM, 100 MHz	323013-001	166966-001*
128 MB, PC700, RDRAM	402824-722	158264-001
128 MB, PC700, RDRAM, ECC	402833-762	158264-001
CRIMM, RDRAM Continuity Module	010566-001	158265-001

*100 MHz memory modules only on 810 Intel boards.

Controller Boards	Assembly	Spare Part
NIC, PCI, 10/100	179159-001	179167-001
NIC, PCI, 10/100, TX	005139-001	169849-001
Token Ring Board, PCI	179264-001	179294-001
3COM NIC, 10/100	400355-001	118042-001

CD-ROM Drives	Assembly	Spare Part
CD-ROM, 24X, Slimline, Style 5 Bezel	314118-509	152907-001
DVD, 4X, Slimline, Style 5 Bezel	388836-510	124144-001

Note: The CD-ROM drive for SFF – Front Mounted Audio is not interchangeable with the CD-ROM used in the SFF – Rear Mounted Audio (original configuration) units, due to a difference in the drive bezel.

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Hard Drives	Assembly	Spare Part
4.3 GB, U66	118179-001	134197-001
6.4 GB, U33	314038-001	166973-001*
6.4 GB, U66	118179-002	134198-001
9.1 GB, Wide-Ultra2, SCSI, 7200 rpm	118179-034	179288-001
10.0 GB, U33*		320662-001*
10.0 GB, U66, 5400 rpm	118179-003	134193-001
10.0 GB, U66, 7200 rpm	118179-004	135364-001
13.5 GB, U66	118179-005	140515-001
18.2 GB, Wide-Ultra2, SCSI, 7200 rpm	118179-007	144577-001
20.0 GB, UATA, 7200 rpm	118179-010	157403-001
22.6 GB, U66	386912-002	388511-001

*Used on units with configuration code CPxx. CPxx units do not support U66 drives.

Diskette Drive	Assembly	Spare Part
1.44 MB, 1", M-BTN, Opal	184806-705	314236-001*
1.44 MB, SHRT, M3, Opal	122713-001	123958-001
LS120, 1X	388774-702	164029-001

*Used on units with configuration code CPxx.

Cables	Spare Part
Miscellaneous	314215-001

Miscellaneous	Assembly	Spare Part
Backplane Assembly w/ Expansion Cage	009569-001	314207-001*
Backplane Assembly w/ Expansion Cage, 810	010136-001	118009-001**
Backplane, PCA for 810, 810e, or 820 Chipset	010136-002	154256-001***
Speaker, 40mm x 70mm, Revised Chassis	314185-002	118308-001
Speaker, 40mm x 70mm	314185-001	314227-001
Solenoid Kit	270718-002	179189-001
Security Lock		199109-001
Power/Headphone/Microphone Assembly	010262-001	118008-001*
Power/Headphone/Microphone Assembly, 2	010473-001	122880-001
Hood Assembly w/ Front Bezel**		140702-001
Mouse, 2-Button, Opal	141649-006	166861-001
Mouse, MS Intellimouse		317863-001
Microphone, Opal	278249-001	278266-002
Keyboard, Spacesaver, Opal	166516-006	269513-001
Miscellaneous Hardware Kit		288437-001
Miscellaneous Plastics Kit, Opal		314219-001
T15 Wrench; Security Screws		166527-001
Modem, 33.6/56U, Data	294913-001	294912-001
Switch Assembly w/ Bracket		314218-001
Audio Sound Blaster PCI 128V		113897-001

*Used only on units with configuration codes CPxx.

**Spare part number 118009-001 can only be used on units with 810 chipsets.

***Spare part number 154256-001 can be used on units with 810, 810e and 820 chipsets. The spare kit does not include the surrounding sheet metal cage.

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Power Supply/Battery	Assembly	Spare Part
Power Supply, 90W	288468-001	288472-001*
Power Supply, 120W	401003-001	401907-001
Battery, BX Motherboard (education sku)	129696-001	129907-001*
Battery, 810, 810e, 820 Motherboard	166899-001	153099-001

*Used on units with configuration codes CPxx.

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System Boards	Assembly*	Spare Part
System Board w/ Tray	010106-X01	102314-001
System Board w/ Tray	009563-X01	314213-001
System Board w/ Tray	010502-X01	152993-101
System Board w/ Tray, CuMine Processors	010600-101	164002-001

*010106-x01 shipped beginning 1Q, 1999. 010502-x01 shipped beginning 3Q, 1999. 010600-x01 shipped beginning 4Q, 1999 and is required for CuMine processor support.

Note: To avoid injury from electric shock and/or hot surfaces and to prevent damage to the system board and/or interface boards (such as NICs, video controllers, and memory), unplug the AC power cord from the wall outlet and allow the internal components of the PC to cool before servicing the unit.

Configuration

Jumper	Function	Setting	Description
E50 (440 BX) Jumper	Clear CMOS	1-2 2-3	To clear CMOS, move jumper from pins "1-2" to pins "2-3" for 60 seconds. Then, return jumper to original location.
P33	CD Drive Master/Slave Switch	1-2	Jumper is installed to configure the CD Drive as Master. It is removed to configure an optional SuperDisk LS-120 as Master.

SW1, Speed Settings*

66 MHz	100 MHz	S2	S3	S4	S5
233	350	OFF	OFF	ON	ON
266	400	ON	ON	OFF	ON
300	450	ON	OFF	OFF	ON
333	500	OFF	ON	OFF	ON
366		OFF	OFF	OFF	ON
400		ON	ON	ON	OFF

*As of January 1, 1999, all 300 MHz and faster Intel Celeron and Pentium processors are shipped with the processor speed preset. The preset speed will override any switch settings set on the system board for processor speed.

SW1, Password and Power Settings

S1 Password Control	S6 Power Switch
Disable Password = ON	ON: When connected to power, computer waits for user to press ON/OFF button before booting. Default.
Enable Password = OFF	OFF: When connected to power, computer will boot.

Keyboard Light Combinations for FailSafe Boot Block

Num Lock	Caps Lock	Scroll Lock	Meaning and Required Action
OFF	ON	OFF	System requires setup password. Enter the setup password. The light remains on until a valid password is entered.
ON	OFF	OFF	System could not boot from ROMPaq diskette because it is not present, is bad, or drive is not ready. Insert a valid ROMPaq diskette, turn power off and back on.
OFF	OFF	ON	ROM upgrade failed. Try another ROMPaq diskette. If light remains on, contact Compaq Customer Support.
ON	ON	ON	ROM upgrade successfully completed. Turn power off and back on to resume normal operation.

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DIAGNOSTIC LEDS - KEYBOARD

Key	Beeps	Meaning and Required Action
Num Lock – Flashing	1 Short, 2 Long	System memory is absent. Ensure that compatible DIMMs are installed in the unit. If so, reseal the modules.
Caps Lock – Flashing	1 Long, 2 Short	Video graphics board is not installed or incorrectly initialized. Clear CMOS, and if the video board is present, remove and reseal.
Scroll Lock – Flashing	2 Long, 1 Short	System initialization failed and the unit cannot boot. The system configuration may be invalid. Clear CMOS and see the configuration label for jumper location and instructions.

DIAGNOSTIC LEDS (440 BX UNIT)

Power LED	Color	Meaning
Flashing	Green	The unit is on and power supply is providing power to the system.
Slow-Blinking	Green	The unit is in a low-power state.
Fast-Blinking	Green	Processor-initiated thermal shutdown has occurred.

Configuration Code*	Assembly	System Board Spare Part
CB**	See Note	314213-001
CC**	See Note	314213-001
CD**	See Note	314213-001
CG**	See Note	314213-001
CJ**	See Note	314213-001
CK**	See Note	102314-001
CM**	See Note	102314-001
CP**	See Note	102314-001
CR**	See Note	102314-001
CY**	010502-X01	152993-001
DF**	010502-X01	152993-001
DL**	010600-101	164002-001
DN**	010600-101	164002-001

*Refer to Desktop and Minitower Off-Menu Configurations appendix for CTO configuration information.

**Denotes any combination precluded by the indicated initial two characters, that are EN SFF Rear Mounted Audio units.

Note: Units may contain 009563-X01, 010106-X01, or 010502-X01 or 010600-X01 assemblies. The 010502-X01 is backward compatible for all EN SFF RMA units and includes a header for active fan heat sink connection. The 010600-X01 is required for units utilizing Intel PIII processors 650/100 and 700/100 (code name Coppermine, denoted CuMine in this section) and is backward compatible for all SFF RMA units.

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Microprocessors	Assembly	Spare Part
300 MHz uP PII w/ Heat Sink		314222-001
333 MHz uP PII w/ Heat Sink		314223-001
350 MHz uP PII w/ Heat Sink		314224-001
400 MHz uP PII w/ Heat Sink		314225-001
450 MHz uP PII w/ Heat Sink		314226-001
300/66 Celeron w/ Heat Sink		314284-001
333/66 Celeron w/ Heat Sink		314285-001
366/66 Celeron w/ Heat Sink		103254-001
400/66 Celeron w/ Heat Sink		103468-001
450/100 PIII w/ Heat Sink		103469-001
500/100 PIII w/ Heat Sink		103470-001
550/100 PIII w Active Fan Heat Sink Assembly	Notes 1,2	152722-001
600/100 PIII w Active Fan Heat Sink Assembly	Notes 1,2	155813-001
650/100 PIII w/ Heat Sink; CuMine		164281-001
700/100 PIII w/ Heat Sink; CuMine		167442-001

Note 1: PIII 550 and 600 units require an active fan heat sink assembly attached to the processor and powered through connection on the System Board. The PIII 650 and 700 units do not need the active fan heat sink because they utilize the new Intel CuMine processors.

Note 2: The PIII 550 can use the 146060-001 or –002 fan heat sink assembly; the PIII 600 requires the 146060-002. The difference is internal to the thermal pad located on the bottom of the heat sink.

Memory	Assembly	Spare Part
16 MB SDRAM, 100 MHz	323010-001	166969-001
16 MB SDRAM, ECC 100 MHz		166964-001
32 MB DIMM	278031-002	278067-001
32 MB Memory Module, DIMM	323011-001	166890-001
32 MB Memory Module, w/ ECC	268308-002	288440-001
32 MB SDRAM, ECC 100 MHz		166968-001
64 MB Memory Module, SDRAM	270859-002	278095-001
64 MB Memory Module, SDRAM, ECC	270857-002	278098-001
64 MB DIMM, 100 MHz	323012-001	179190-001
64 MB SDRAM, ECC 100 MHz		166967-001
128 MB Memory Module, SDRAM	270858-002	278096-001
128 MB Memory Module, SDRAM, ECC	270856-002	278099-001
128 MB DIMM, 100 MHz	323013-001	166966-001
128 MB SDRAM, ECC 100 MHz		166965-001
Memory Module, 4 MB, 100 MHz Video SGRAM	341711-002	314298-001

Miscellaneous	Assembly	Spare Part
Backplane Assembly w/ Expansion Cage		314207-001
Backplane Assembly w/ Expansion Cage, NETPC		314208-001
Speaker, 40mm x 70mm	314185-001	314227-001
Solenoid Kit	270718-002	179189-001
Mouse, 2-Button, Opal	141649-006	166861-001
Keyboard, Spacesaver, Opal	166516-006	269513-001
Modem, 33.6/56U, Data	294913-001	294912-001
Miscellaneous Hardware Kit		288437-001
Miscellaneous Plastics Kit		314219-001
Active Fan Heat Sink, 550 PIII MHz version (includes fan and heat sink)	146060-00X	152906-001
Active Fan Heat Sink, 600 PIII MHz version (includes fan and heat sink)	146060-002	152906-001

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CD-ROM Drive	Assembly	Spare Part
CD-ROM, 24X Max, Slimline, Style 4, Opal	314118-4XX	314214-001

Note: The CD bezel is different between EN SFF – RMA and EN SFF – FMA and for this reason is not interchangeable. Ensure the unit being serviced is the correct version for this CD-ROM.

Controller Boards	Assembly	Spare Part
Token Ring NIC, 4/16	179264-001	179294-001
NIC, PCI, 10/100	179159-001	179167-001
NIC, PCI, 10/100, TX	005139-001	169849-001

Hard Drives	Assembly	Spare Part
2.1 GB, IDE		288449-001
3.2 GB, UDMA	314026-001	166873-001
6.4 GB, UDMA		166973-001
6.4 GB, U66	118179-002	134198-001
8.4 GB, UDMA		166981-001
10.0 GB, UDMA, 5400 rpm		320662-001
10.0 GB, UDMA, 7200 rpm		330520-001
10.0 GB, U66, 7200 rpm	118179-004	135364-001
13.5 GB, UDMA, 7200 rpm		140515-001
16.8 GB, UDMA		334715-001
22.6 GB, UDMA, 7200 rpm		388511-001

Note: EN SFF – RMA units use the 440 BX chipset exclusively, which treat UDMA/66 drives as equivalent to UDMA/33 drives. Thus UDMA/66 performs the same as UDMA/33 in these units.

Diskette Drives	Assembly	Spare Part
1.44 MB, 1", S-BSTN, Opal	141087-705	314236-001

Note: The FD bezel is different between EN SFF – RMA and EN SFF – FMA, and for this reason is not interchangeable. Ensure the unit being serviced is the correct version for this Diskette Drive.

Cables	Spare Part
Miscellaneous	314215-001
Power Switch Cable Assembly, Includes Switch and Holder	314218-001

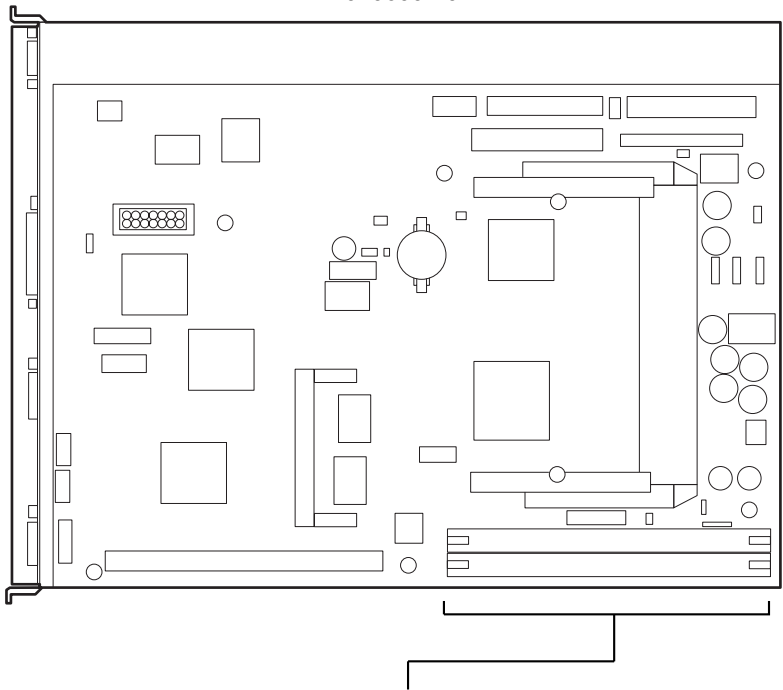
Power Supply/Battery	Assembly	Spare Part
Power Supply, 90W	288468-001	288472-001
Battery, BX Motherboard	129696-001	129907-001

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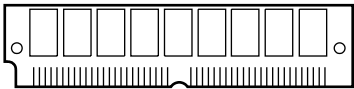
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Memory Upgrade Chart

SYSTEM BOARD
010106-X01, 009563-X01, 01502-X01
010600-101



A MAXIMUM OF 256 MB TOTAL MEMORY



8-MB 66ns DIMMS, OPTION PN 242802-B21

16-MB 66ns DIMMS, OPTION PN 242803-B21

32-MB 66ns DIMMS, OPTION PN 242804-B21

64-MB 66ns DIMMS, OPTION PN 242805-B21

128-MB 66ns DIMMS, OPTION PN 270812-B21