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PARTS.....Approved 3.5-inch IDE Hard Disk Drives for A4000 Systems

The following AT, IDE hard disk drives are approved by Commodore for use in the A4000 systems:

Part Number	Firmware Rev. Level	Capacity	Max. Avg. Seek Time	Height	Vendor
364290-01	ROM 3.0, RAM 2.03.	40MB	28ms	- - - -	Seagate ST351A
312966-02	- - - - -	80MB	28ms	1.0" (25.4mm)	WD WDAC280
312966-03	- - - - -	80MB	28ms	1.0" (25.4mm)	Seagate ST3096A
311840-02	ROM 146, RAM 184	100MB	17ms	1.0" (25.4mm)	Seagate ST3120A
364517-01	2.55	120MB	17ms	1.0" (25.4mm)	WD WDAC2120
364517-03	ROM 146, RAM 184	120MB	17ms	1.0" (25.4mm)	Seagate ST3144A
311639-04	- - - - -	200MB	17ms	1.0" (25.4mm)	WD WDAC2200
364782-02	ROM 44, RAM 9300	240MB	17ms	- - - -	Seagate ST3283A

WD = Western Digital

Please note that the Seagate ST351A (P/N 364290-01) is an AT/XT hard disk drive. When using this drive as a slave, its light will stay on at all times.

PARTS.....Approved 2.5-inch IDE Hard Disk Drives for A1200 Systems

The following AT, IDE hard disk drives are approved by Commodore for use in the A1200 systems:

Part Number	Firmware Rev. Level	Capacity	Max. Avg. Seek Time	Height	Vendor
364594-02	- - - - -	30MB	19ms	0.60" (15.3mm)	WD WDAB130
364654-02	ROM 7.08, RAM 7.17	40MB	19ms	0.75" (19.0mm)	Seagate ST9051A
364654-04	ROM 5.00, RAM 5.02	40MB	19ms	0.49" (12.5mm)	Seagate ST9052A
364652-01	4.11 CC:AE	60MB	19ms	0.75" (19.0mm)	WD WDAH260
364652-03	ROM 2.02, RAM 2.11	60MB	19ms	0.75" (19.0mm)	Seagate ST9077A
364652-04	ROM 3.00, RAM 3.00	60MB	19ms	0.49" (12.5mm)	Seagate ST9080A
364532-03	ROM 7.00, RAM 7.03	80MB	19ms	0.75" (19.0mm)	Seagate ST9096A
364888-01	- - - - -	120MB	19ms	0.75" (19.0mm)	Seagate ST9144A
365210-01	ROM 3.00, RAM 3.00	200MB	19ms	0.75" (19.0mm)	Seagate ST9235A

PARTS..... Approved Walex Keylock Switch

The Walex keylock switch is approved by Commodore and should be added to the Approved Vendor List. This switch is a two-position (ON, OFF), rotary-action switch. It is fabricated of zinc alloy and is suitable for double-D mounting with included jam-nut. This device comes with pre-soldered leads of appropriate length and two barrel operator keys.

Part Number	Description	Vendor
364285-01	Two-position (ON, OFF) Keylock Switch	Walex 1710-151-0400

PARTS..... Approved Thermalloy Heat Sink for the 68040 Microprocessors

The Thermalloy heat sink is approved by Commodore and should be added to the Approved Vendor List. The heat sink is usable with the 68040 microprocessors mounted in 179-pin PGA sockets, part number 390492-01.

Part Number	Description	Vendor
391493-01	Heat sink used with 68040 microprocessors	Thermalloy-2333B

AMIGA..... Improper Installation of Power Supply Fan in A4000 Systems

Several power supply units installed in the A4000 systems have the fan installed backwards. Because of the improper installation, airflow through the power supply is directed inwards to the system instead of outwards from the system.

Determine if your system has its fan installed backwards by placing a piece of tissue paper at the back of the power supply and observing the air flow. If the paper is drawn towards the back of the unit, then the fan is installed backwards. To correct this problem, the fan should be reinstalled as follows:

1. Power off the main unit of the A4000 system. Remove the cover, using a Phillips-head screwdriver.
2. Remove the front panel. Use Figure 1 to locate the plastic clips inside the front panel. The location is shown on the outside of the front panel, but the clips are attached to the panel's interior. Use a pair of needle-nosed pliers to squeeze the clips and pry them out of the chassis. Pry the top three clips out first, pry a lower corner clip out next, and then pry the other three clips out.

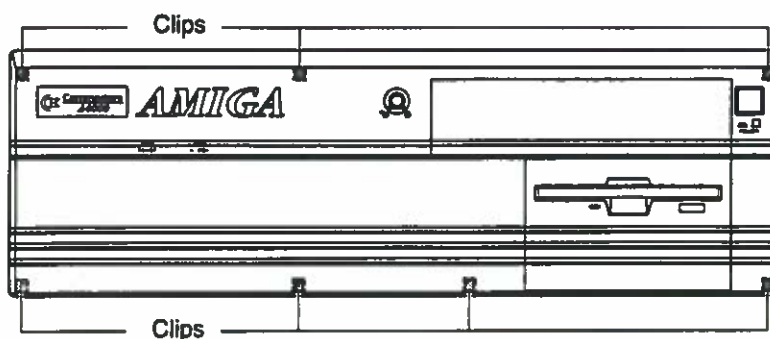


Figure 1. Front Panel Clip Locations

3. Remove the Power-On push rod from the power supply, and the hard disk drive carefully. Figure 2 illustrates the location of most major components in the A4000 systems.

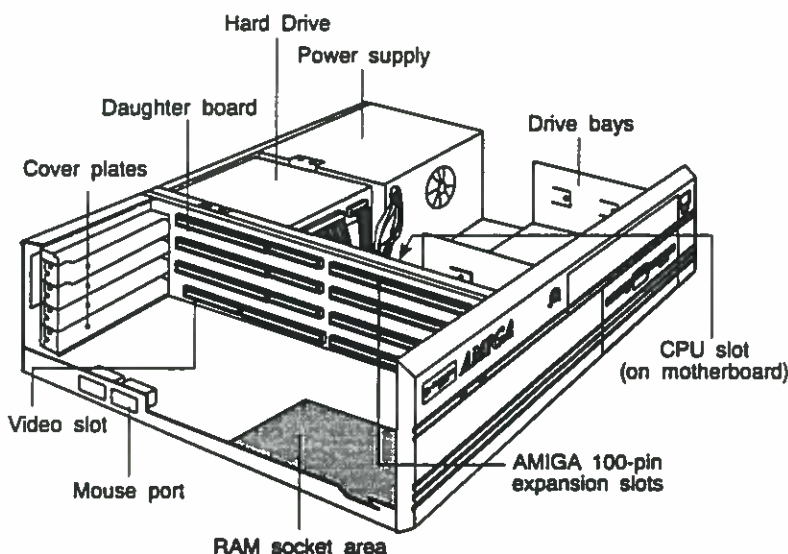


Figure 2. Location of Major Components in the A4000 Systems

4. Remove the power connector on the motherboard.
5. Slide the power supply forward towards the back of the floppy disk drive to disengage it from the two clips on the bottom of the chassis. Carefully remove the power supply.
6. Remove the cover from the power supply and the wire grid that shields the fan.
7. Using a diagonal cutter, cut the ty-wrap that secures the wire harness to the fan and carefully remove the fan. If it does not come out easily, remove the three screws on the PCB.
8. Check the airflow directional arrow on the fan housing, and reinstall the fan with the arrow pointing towards the inside of the power supply. You may have to cut the other ty-wrap to enable the fan to be mounted flush against the chassis.

9. Reinstall the wire grid and reinstall the power supply.
10. Replace the screw to the power supply at the back of the chassis.
11. Replace the hard disk drive, making sure that the plastic shield next to the daughterboard is in place, and replace the cover.

AMIGA..... Package Insert for Monitors In A1200 and A4000 Systems

The A1200 and A4000 systems are built around the AGA (AA) custom chipset. Enhanced graphics features of this chipset and Release 3 software offer many new video modes. Because of the increased number of options, selecting the optimal graphic configuration is more complex. The *AGA Graphics Supplement* (Part Number 371121-01) is available as a guide to assist you in this process.

AMIGA..... Untrimmed Leads on Power Connector for A1200 Systems

Untrimmed leads on the power connector for the A1200 system may cause damage to the RF plastic shield, thus causing a short. Exercise extreme care when inserting the power cable.

AMIGA..... Removal of Capacitor (C460) and Replacement of Capacitor (C461) on the A1200 Motherboard

The A1200 experiences a color loss (the screen goes gray) when the composite and RF video outputs are used. This problem is apparent on all releases of the A1200 motherboard. However, it occurs almost instantaneously with release 1D of the motherboard. To correct this problem, remove capacitor C460 and replace C461 chip capacitor .22UF (CBM P/N 310027-05) with C461 chip capacitor 1000pF (CBM P/N 390853-07) as follows:

1. Remove the A1200 system top cover screws. Turn the system over and remove the five case screws on the bottom panel.
2. Remove the top panel. Lift the front corners of the top panel. Slide the panel toward the back of the system case. Locate the LED connector illustrated in Figure 3.
3. Slide the LED off the connector carefully before completely removing the top panel.

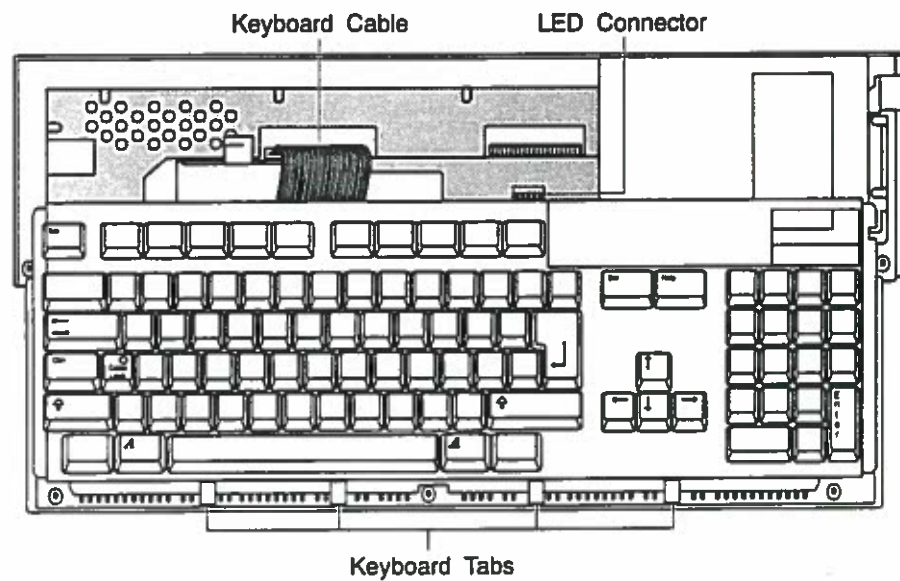


Figure 3. Removing the LED Connector and Keyboard

4. Remove the keyboard cable. Locate the keyboard cable illustrated in Figure 3. To release the zero insertion force (ZIF) socket, grasp the top of the socket and carefully lift it up. Use a pair of needle-nosed pliers, if necessary, to hold the top edge of the socket as you lift it up. To avoid cable damage you must release the socket before attempting to remove the cable. Hold the keyboard ribbon cable by its outside edges and slide it out of the socket.
5. Locate the three floppy disk drive screws that attach it to the chassis. Remove the screws and lift the floppy disk drive out of the system. Some systems have a shim between the floppy disk drive and the system case. If you remove it, match the holes in the shim with the screw holes in the system case when you replace it.
6. Remove the hard disk drive bracket. Locate the hard disk drive bracket illustrated in Figure 4. The bracket tabs go into slots on the motherboard. Lift it straight off the motherboard.
7. Remove the shield assembly. Locate the shield screws illustrated in Figure 4 and remove them.
8. Locate the shield clasps illustrated in Figure 4 and bend them to an upright position. The clasps are sharp. Use caution when bending them. Lift the top shield off the bottom shield. Carefully remove the shield.

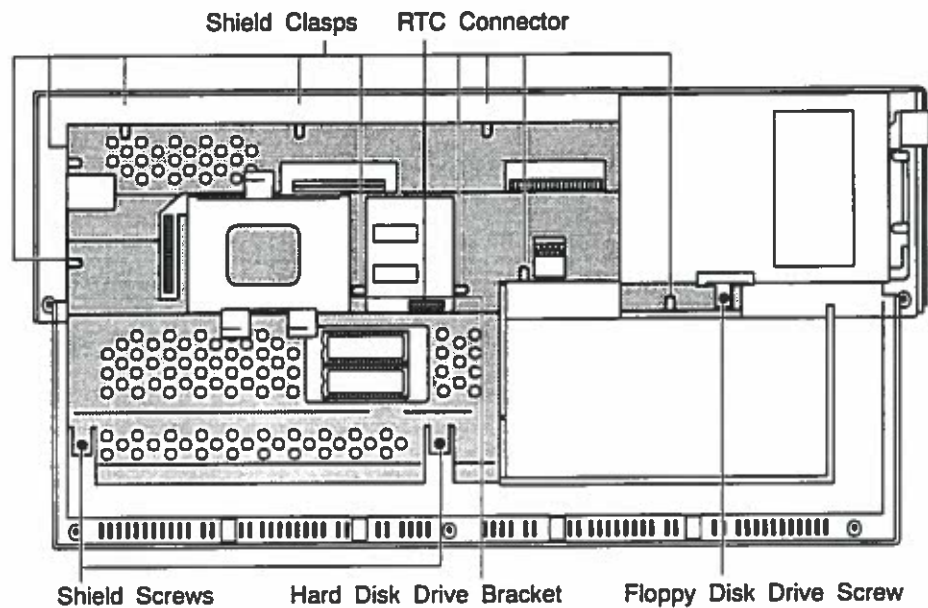


Figure 4. Removing the Hard Disk Drive, Floppy Disk Drive and Shield

9. Locate capacitor C460 illustrated in Figure 5. Using a soldering iron, unsolder capacitor C460 and remove it.

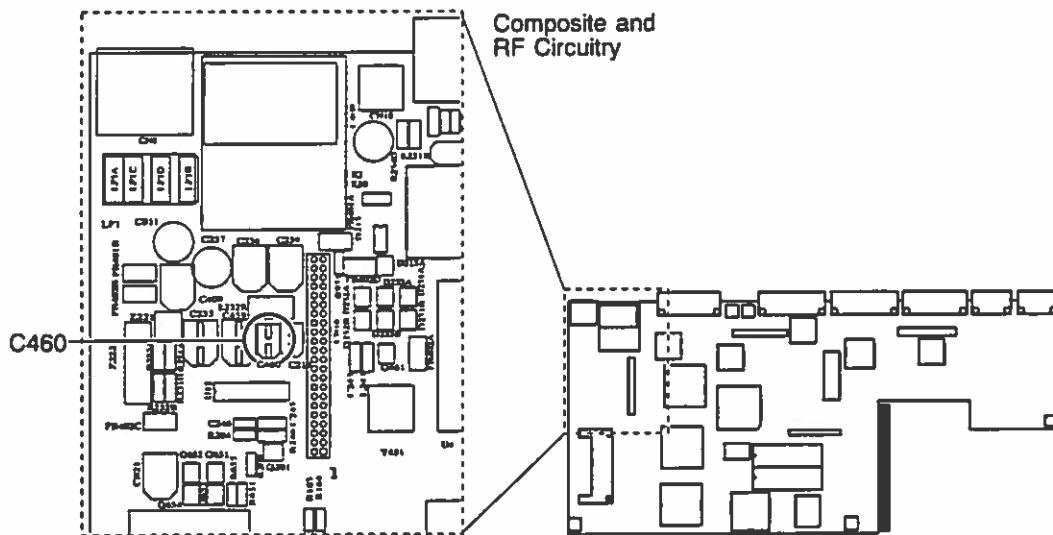


Figure 5. Composite and RF Circuitry

10. Locate capacitor C461 on the underside of the motherboard (illustrated in Figure 6). Using a soldering iron, unsolder capacitor C461, remove it, and solder C461 chip capacitor 1000pF (CBM P/N 390853-07) in its place.

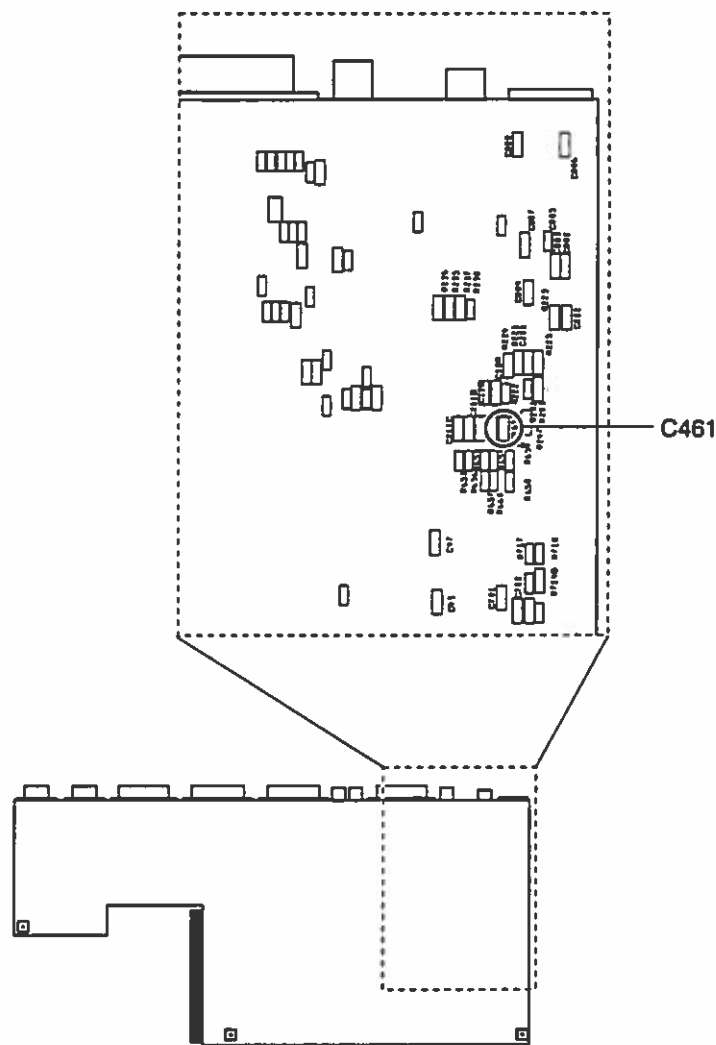


Figure 6. Composite and RF Circuitry (Underside)

11. Put the system back together by reversing steps 1 through 10.

AMIGA.....Availability of Patch Disk for A600 Hard Disk Drive

The Connor CP2024, 2.5-inch, 20MB IDE hard disk drive corrupts data when transferring large amounts of data across certain boundaries. This problem is resolved with *Set Patch*, release version 37.38. *Set Patch* contains all previous patches.

AMIGA..... Software Release 7.0 for A2091 Systems

A2091 HDC — New ROM pair Revision 7.0 adds improved performance, compatibility, and support for large drives.

Part Number	Description	Checksum	Location
390722-04	IC ROM Rev 7.0 ODD	083EF2	U12
390721-04	IC ROM Rev 7.0 EVEN	05081C	U13

Note This upgrade was only qualified for units which have an "A" type Western Digital SCSI controller WD33C93A, Revisions 04 and 08 (CBM PN 390206-03).

The new Rev. 7.0 A2091 firmware offers a number of improved performance and compatibility features, including 68040 support. Also, there is now support for Sync transfers.

The significant changes are as follows:

- Hard drives with capacities greater than 1 gigabyte are now supported.
- The reselection bug where DMA was not used after a reselection has been fixed.
- Performance, especially during disconnect/reselect, is greatly improved for the common case where there is another task waiting to run.
- Incoming Sync negotiation messages are now interpreted instead of assuming a fixed Sync value. Sync messages are now generated if the option jumper labeled "4" is enabled *and* the drive has the "supports Sync" bit set in its inquiry data.
- The error handling and diskchange handling have been improved. Reallocated write errors are handled properly instead of rewriting the data.
- The software now checks to make sure the message that a driver-initiated Sync message is tacked onto is an Identify. This fixes the Sync problems with Syquest, Seagate ST1480N, Seagate ST1481N, Seagate ST1580N, and Seagate ST1581N drives — and possibly others.
- Some of the "send Sync mode," etc., problems found in earlier revisions have been fixed. This also makes Sync work with more drives (Seagate ST1581N [500MB], for example). Syquests still do not work with Sync (and probably will not until their firmware is fixed) even though the drives' inquiry data says they do.

Note Sync should not be enabled if a Syquest is in the system.

- Handling of removable media has been fixed. Earlier versions would check for removable media for only about 30 seconds of removal time (total) and then would stop.
- The A2091/A590 "slow boot" jumper now causes a 15 second wait, then a scan with 300ms timeouts, instead of just scanning with 3000ms timeouts. (Normal SCSI timeouts are 250ms).

Note Please see the update to the *Parts/Price Book* for pricing information.

Spare Parts

U.S. Sales Division

Class	Part Number	Sub. Part Number	Description	Product Used With	ASP	MSRP w/o Core	Core Allow.	Net ASP	MSRP w/Core
IC, Custom	390541-04	390541-07	IC, RAMSEY	A3000T/A3000	96.00	160.00	75.00	21.00	35.00
IC, Custom	390537-02	390537-04	IC, Super DMAC	A3000T/A3000	30.00	50.00		30.00	50.00
IC, ROM	390721-02	390721-04	IC, ROM, Even	A2091	12.00	20.00		12.00	20.00
IC, ROM	390722-02	390722-04	IC, ROM, Odd	A2091	12.00	20.00		12.00	20.00
PCB Assy.	312510-05		PCB Assy., NTSC, Rev. 5	A500	345.00	575.00	185.00	160.00	266.00
Drive Assy., FDD	313248-01		Drive Assy., FDD, HD	A3000T/A3000	64.00	91.00		64.00	91.00
Drive Assy., FDD	313067-05		Drive Assy., FDD, 1.4MB	PC60-III	70.00	99.00		70.00	99.00
Drive Assy., FDD	313067-01		Drive Assy., FDD, 1.4MB	PC40-III/SE286V	70.00	99.00		70.00	99.00
Drive Assy., FDD	312574-01		Drive Assy., FDD, 720K	910	70.00	99.00		70.00	99.00
Drive Assy., FDD	380752-01		Drive Assy., FDD, 880K	A2000	50.00	71.00		50.00	71.00
Drive Assy., FDD	310133-01		Drive Assy., FDD, 880K, Chinon	A3000	50.00	71.00		50.00	71.00
Drive Assy., FDD	312554-01		Drive Assy., FDD, 880K, Chinon	A500	50.00	71.00		50.00	71.00
Drive Assy., FDD	313315-01		Drive Assy., FDD, 880K, Chinon	A3000	50.00	71.00		50.00	71.00
Drive Assy., FDD	327142-01		Drive Assy., FDD, 880K, Chinon	A500	50.00	71.00		50.00	71.00
Drive Assy., FDD	327156-02		Drive Assy., FDD, 880K, Panasonic	A500	50.00	71.00		50.00	71.00
Drive Assy., FDD	359902-01		Drive Assy., FDD, 880K, Panasonic	A1000/A1010	50.00	71.00		50.00	71.00
Drive Assy., FDD	380111-07		Drive Assy., FDD, 5.25"	1541-II	57.00	81.00		57.00	81.00
Drive Assy., FDD	380825-01		Drive Assy., FDD, 5.25"	A2000	57.00	81.00		57.00	81.00
Drive Assy., FDD	380825-02		Drive Assy., FDD, 5.25", 1.2MB	A2286	57.00	81.00		57.00	81.00
Drive Assy., FDD	380111-06		Drive Assy., FDD, 5.25", 1.2MB	PC40-III/SE286V	70.00	99.00		70.00	99.00
Drive Assy., FDD	327200-01		Drive Assy., FDD, 5.25", 360K	A2000	52.00	80.00		52.00	80.00
Drive Assy., FDD	380111-01		Drive Assy., FDD, 5.25", 360K	A1020	40.00	60.00		40.00	60.00
Drive Assy., FDD	325519-02		Drive Assy., FDD, 5.25", 360K	PC20/10-III/COLT	50.00	71.00		50.00	71.00
Drive Assy., FDD	359901-01		Drive Assy., FDD, 5.25", ALPS	1541/1540	57.00	81.00		57.00	81.00
Drive Assy., FDD	252083-02		Drive Assy., FDD, 5.25", NEWT	1541-II	57.00	81.00		57.00	81.00
Drive Assy., FDD	251643-03		Drive Assy., FDD, 5.25", NEWT	1571/C128D	70.00	99.00		70.00	99.00
Drive Assy., HDD	311836-03		Drive Assy., FDD, 5.25", NEWT	1541	57.00	81.00		57.00	81.00
Drive Assy., HDD	311836-04		Drive Assy., HDD, 105MB, SCSI	A3000/A3000UX	275.00	425.00		275.00	425.00
Drive Assy., HDD	311838-01		Drive Assy., HDD, 105MB, SCSI	A3000/A3000UX	275.00	425.00		275.00	425.00
Drive Assy., HDD	313233-01		Drive Assy., HDD, 200MB, SCSI	A3000UX	600.00	923.00		600.00	923.00
Drive Assy., HDD			Drive Assy., HDD, 20MB	COLT286	154.00	237.00		154.00	237.00

Spare Parts

Class	Part Number	Sub. Part Number	Description	Product Used With	ASP	MSRP	Core	Net	MSRP
					ASP	w/o Core	Allow.	ASP	w/Core
Drive Assy., HDD	312896-01		Drive Assy., HDD, 20MB	C286LT	154.00	237.00		154.00	237.00
Drive Assy., HDD	312711-03		Drive Assy., HDD, 20MB, WD	A590	185.00	285.00		185.00	285.00
Drive Assy., HDD	313065-03		Drive Assy., HDD, 40MB, Quantum	PC40-III/SE286V	225.00	346.00		225.00	346.00
Drive Assy., HDD	313440-01		Drive Assy., HDD, 40MB, SCSI	A2500/A2000HD/A2091	165.00	254.00		165.00	254.00
Drive Assy., HDD	311833-01		Drive Assy., HDD, 40MB, ST506	A2000	195.00	300.00		195.00	300.00
Drive Assy., HDD	390618-02		Drive Assy., HDD, 40MB, WD	PC20-III/40	225.00	346.00		225.00	346.00
Drive Assy., HDD	311837-01		Drive Assy., HDD, 50MB, Quantum	A3000	180.00	277.00		180.00	277.00
Drive Assy., HDD	311839-01		Drive Assy., HDD, 52MB, Quantum	SL386SX	225.00	346.00		225.00	346.00
Drive Assy., HDD	312966-01		Drive Assy., HDD, 80MB, Quantum	PC60-III	300.00	462.00		300.00	462.00
Drive Assy., HDD	364680-01		Drive Assy., HDD, 120MB, Maxtor	A3000/A3000UX/A2000	275.00	425.00		275.00	425.00
Power Supply	251656-01		Power Supply Assy.	A1020	14.00	21.00		14.00	21.00
Power Supply	380021-02		Power Supply Assy.	PC20/10-III/COLT	54.00	84.00		54.00	84.00
Power Supply	390484-02		Power Supply Assy.	A3000T/PC60-III	125.00	193.00		125.00	193.00
Power Supply	310416-01		Power Supply Assy.	C128	30.00	46.00		30.00	46.00
Power Supply	312639-01		Power Supply Assy.	A590	39.00	60.00		39.00	60.00
Power Supply	390500-02		Power Supply Assy.	A3000	77.00	119.00		77.00	119.00
Power Supply	312637-02		Power Supply Assy., 75W	PC20/10-III/COLT	53.00	82.00		53.00	82.00
Power Supply	1540002-01		Power Supply Assy.	1541/1540/2031LP	11.00	17.00		11.00	17.00
Power Supply	250772-01		Power Supply Assy.	1571	30.00	46.00		30.00	46.00
Power Supply	327173-01		Power Supply Assy.	A1000	40.00	62.00		40.00	62.00
Power Supply	340031-01		Power Supply Assy.	1541-II/1581	21.00	33.00		21.00	33.00
Power Supply	380708-02		Power Supply Assy.	A2000	77.00	119.00		77.00	119.00
Power Supply	252449-01		Power Supply Assy.	C128D	36.00	56.00		36.00	56.00
Power Supply	390269-01		Power Supply Assy.	PC40-III/SE286V	62.00	96.00		62.00	96.00
Power Supply	390205-01		Power Supply Assy.	1764	15.00	23.00		15.00	23.00
Power Supply	312503-01		Power Supply Assy.	A500	28.00	44.00		28.00	44.00
Power Supply	251053-01		Power Supply Assy.	C64	13.00	20.00		13.00	20.00
Keyboard	312702-02		Keyboard Assy.	PC20/10-III	35.00	54.00		35.00	54.00
Keyboard	326166-04		Keyboard Assy.	C64	10.00	16.00		10.00	16.00
Keyboard	250779-01	310401-01	Keyboard Assy.	C128	25.00	39.00		25.00	39.00

Spare Parts

Class	Part Number	Sub. Part Number	Description	Product Used With	ASP	MSRP w/o Core	Core Allow.	Net ASP	MSRP w/Core
Keyboard	310401-01		Keyboard Assy.	C128	25.00	39.00		25.00	39.00
Keyboard	312502-01		Keyboard Assy.	A500	20.00	31.00		20.00	31.00
Keyboard	327063-01	314257-01	Keyboard Assy.	A1000	54.00	84.00		54.00	84.00
Keyboard	380008-02		Keyboard Assy.	PC10-1/PC10-2	54.00	84.00		54.00	84.00
Keyboard	313005-01		Keyboard Assy.	COLT	33.00	50.00		33.00	50.00
Keyboard	250735-02		Keyboard Assy.	C128D	54.00	84.00		54.00	84.00
Keyboard	313323-02		Keyboard Assy.	A3000	39.00	60.00		39.00	60.00
Keyboard	314257-01	327063-01	Keyboard Assy.	A1000	54.00	84.00		54.00	84.00
Keyboard	312716-02		Keyboard Assy.	A2000	39.00	60.00		39.00	60.00
Keyboard	312709-01		Keyboard Assy.	PC40-III/SE286V	35.00	54.00		35.00	54.00

Spare Parts

Class	Part Number	Sub. Part Number	Description	Product Used With	ASP	MSRP w/o Core	Core Allow.	Net ASP	MSRP w/Core
Mouse	327124-05		Mouse Assy.	A1200/A600/A4000	23.00	39.00		23.00	39.00
Keyboard	363756-01		Keyboard Assy.	A600HD/A600	20.00	31.00		20.00	31.00
LED Assy.	364967-01		LED Assy.	A1200	3.00	5.00		3.00	5.00
Keyboard	364951-01		Keyboard Assy.	A1200	20.00	31.00		20.00	31.00
Drive Assy., FDD	363914-03		Drive Assy., FDD	A600HD/A600	53.00	82.00		53.00	82.00
Cable	364423-01		Cable Assy., FDD	A600HD/A600	3.00	5.00		3.00	5.00
Cable	364423-04		Cable Assy., FDD	A1200	3.00	5.00		3.00	5.00
Cable	364435-01		Cable Assy., HDD	A1200HD/A600HD	6.00	10.00		6.00	10.00
Drive Assy., FDD	363914-03		Drive Assy., FDD	A1200/A600	53.00	82.00		53.00	82.00
Drive Assy., FDD	313248-01		Drive Assy., FDD	A4000	64.00	91.00		64.00	91.00
Drive Assy., HDD	364517-03		Drive Assy., HDD, 120MB	A4000	275.00	425.00		275.00	425.00
Drive Assy., HDD	364654-02		Drive Assy., HDD, 40MB	A1200HD/A600HD	195.00	305.00		195.00	305.00
PCB Assy.	364809-05		PCB Assy.	A600HD/A600	185.00	285.00		185.00	285.00
User's Manual	368435-01		User's Manual, Introduction	A600	3.00	5.00		3.00	5.00
User's Manual	368681-01		User's Manual, Introduction	A600HD	3.00	5.00		3.00	5.00
User's Manual	368997-01		User's Manual, Introduction	A1200HD/A1200	3.00	5.00		3.00	5.00
User's Manual	368712-01		User's Manual	A600HD/A600	3.00	5.00		3.00	5.00
Power Supply	391029-01		Power Supply Assy.	A1200/A600	28.00	44.00		28.00	44.00
Drive Assy., FDD	313248-01		Drive Assy., FDD	A4000	64.00	91.00		64.00	91.00
PCB Assy.	364837-01		PCB Assy.	A4000	470.00	725.00	297.00	173.00	267.00
PCB Assy.	364718-01		PCB Assy.	A1200	195.00	300.00		195.00	300.00
PCB Assy.	364856-01		PCB Assy. 68040	A4000	831.00	1,279.00	607.00	224.00	345.00
Power Supply	391173-01		Power Supply Assy.	A4000	64.00	99.00		64.00	99.00
Keyboard	364447-01		Keyboard Assy.	A4000	44.00	68.00		44.00	68.00
User's Manual	368759-01		User's Manual, AREXX	A600/A1200	10.00	15.00		10.00	15.00
User's Manual	371001-01		User's Manual, HDD	A1200HD	3.00	5.00		3.00	5.00
User's Manual	368763-01		User's Manual, AmigaDOS	A600/A1200	10.00	15.00		10.00	15.00