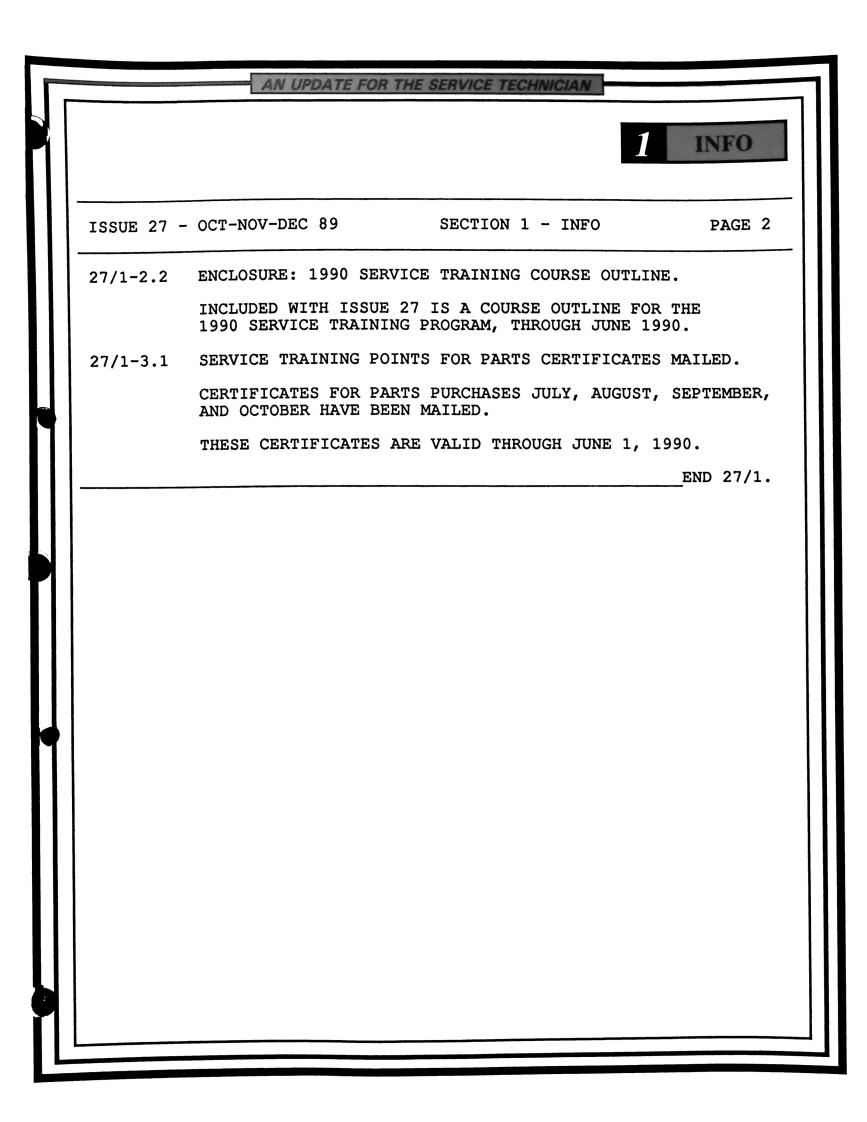
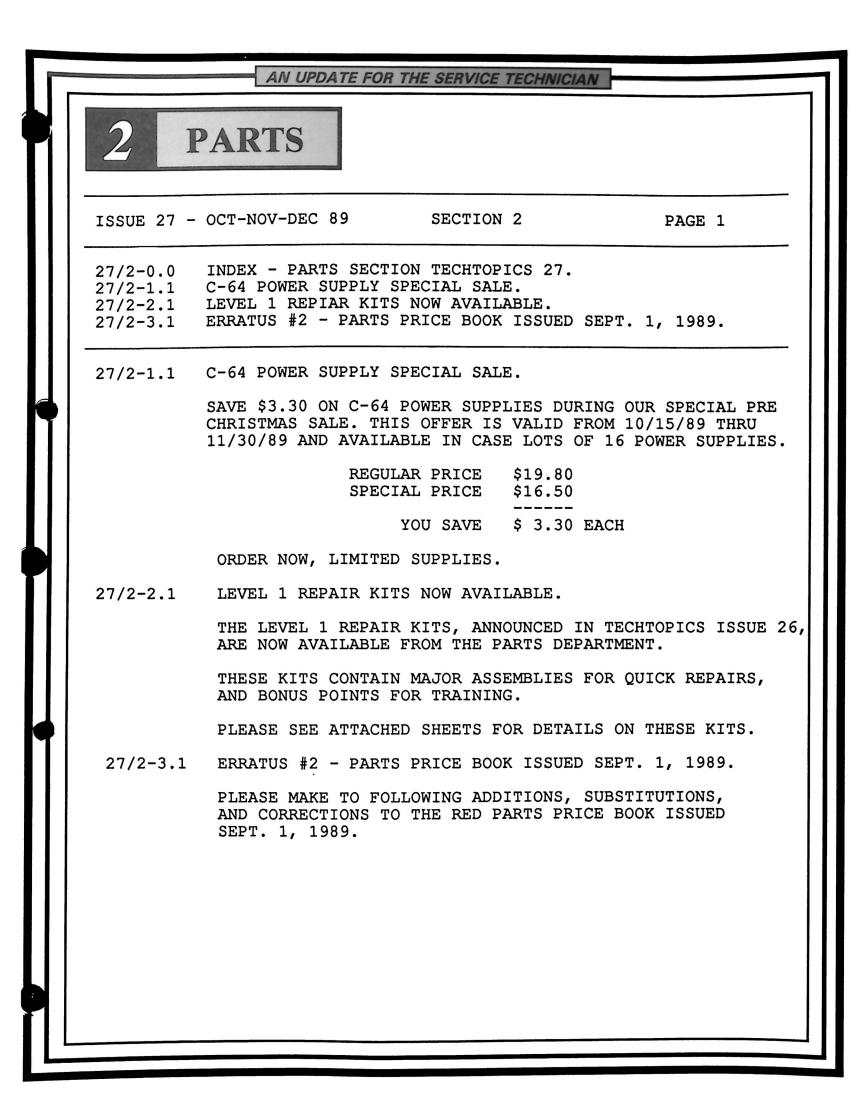
	AN	UPDATE	FOR THE SERVICE T	ECHNICIAN	
1	INFO				
ISSUE 27 -	- OCT-NOV-DE	EC 89	SECTION	1 - INFO	PAGE 1
27/1-0.0 27/1-1.1 27/1-2.1 27/1-2.2 27/1-3.1	SERVICE TH SERVICE TH ENCLOSURE	RAINING RAINING : 1990	TION TECHTOPIC SCHEDULE, OCTO SCHEDULE, JANU SERVICE TRAININ POINTS FOR PAR	BER - DECEMBER ARY - JUNE 199 G COURSE OUTLI	1989. 0. NE. S MAILED.
27/1-1.1	SERVICE TI	RAINING	SCHEDULE, OCTO	BER - DECEMBER	1989.
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	MONTH	DATE	TRAINING DAYS	PRODUCTS	STATUS
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27/1-2.1	SERVICE T	RAINING	SCHEDULE, JANU	JARY - JUNE 199	90.
	1990 TRAINING SCHEDULE, JANUARY THRU JUNE. PLEASE CONTACT JOHN DIMEO FOR MORE INFORMATION.				
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AN UPDATE FOR THE SERVICE TECHNICIAN

PARTS

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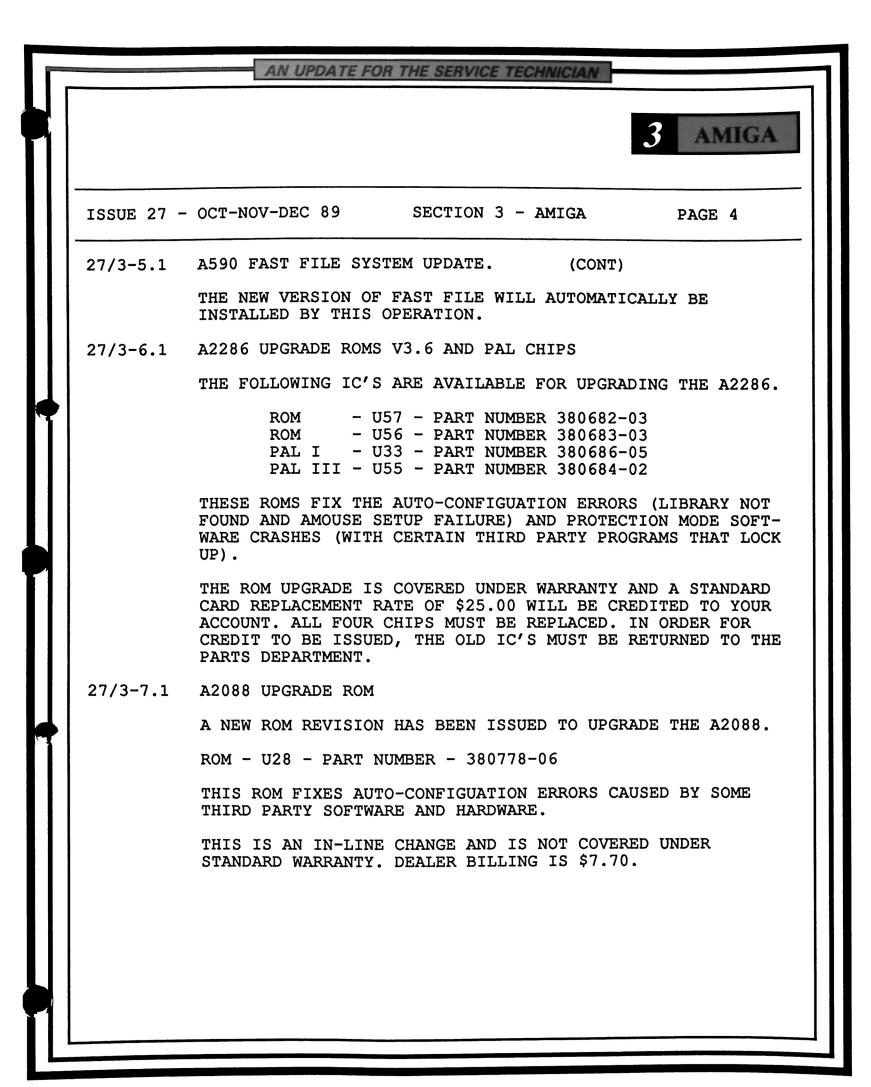
ISSUE 27 -	OCT-NOV-DEC	89 SECTION 2		PAGE 2
27/2-3.1	ERRATUS #2	- PARTS PRICE BOOK	ISSUED SEPT. 1,	1989. (CONT)
	PART NUMBER	DESCRIPTION	PRODUCT DEAL BILL	
	1540001-03	PCB ASSY - LONG	1540/1541	NLA
	1540048-01	PCB ASSY - ALPS	1541 88.	00 REMOVE- SUB
	251868-01	POWER SUPPLY ASSY	1541 SUB TO	1540002-01
	252083-02	DRIVE ASSY - NEWT	128D/1571	USED ON- 1571 ALSO
	252092-01	DRIVE ASSY - ALPS	1571 SUB T	0 314673-01
	310163-01	PCB ASSY	+4	NLA
	312711-01	DRIVE ASSY, HARD 20 MB - WESTERN DI		DESCRIPTION
	312711-02	DRIVE ASSY, HARD 20MB - WD OR EPSON		DESCRIPTION
	314093-01	KEY SINGLE	VIC	NLA
	314673-01	KIT 1571 REPLACEME (FROM ALPS DRIVE T		
	314675-01	KIT A1000 DRIVE REPLACEMENT (32714 BRACKET TO ALLOW (42-01 IS FOR A500	
	315739-02	MANUAL USER 2286/2	2088 CHAN	IGE TO -03
	317746-01	DISKETTE, 1.3 WB	A500/A2000 CHAN	IGE TO -03
	318029-02	IC 8520R4 1MHZ CI	A SUB TO	-03 (2MHZ)
	326114-01	CASE, BOTTOM C64		NLA
	327136-01	INSULATION SHEET	A1000	NLA

AN UPDATE FOR THE SERVICE TECHNICIAN PARTS ISSUE 27 - OCT-NOV-DEC 89 SECTION 2 PAGE 3 27/2-3.1 ERRATUS #2 - PARTS PRICE BOOK ISSUED SEPT. 1, 1989. (CONT) DESCRIPTION PRODUCT DEALER ACTION PART BILLING NUMBER 328191-01 IC 6570-33 A1000 SUB TO -02 380042-01 KIT, PC10-1 HD MOUNTING NLA 380778-06 IC BIOS PC-EMUL \$7.70 ADD 380787-01 IC FDC 9268 SUB TO 312710-01 380788-04 IC BIOS PC-EMUL SUB TO 380778-06 390306-01 IC 8742 KB CNTRL PC40-III SUB TO 390341-01 IC RGBI MB7051G3 1902/1080 SUB TO 602073-85 602070-05 602073-85 IC MB7112E RGBI 1902/1080 \$8.25 ADD SUB TO 602190-12 602191-03 CAP ELECT 2200UF 1403 903508-04 CORD POWER SUB TO 252164-01 END/27.

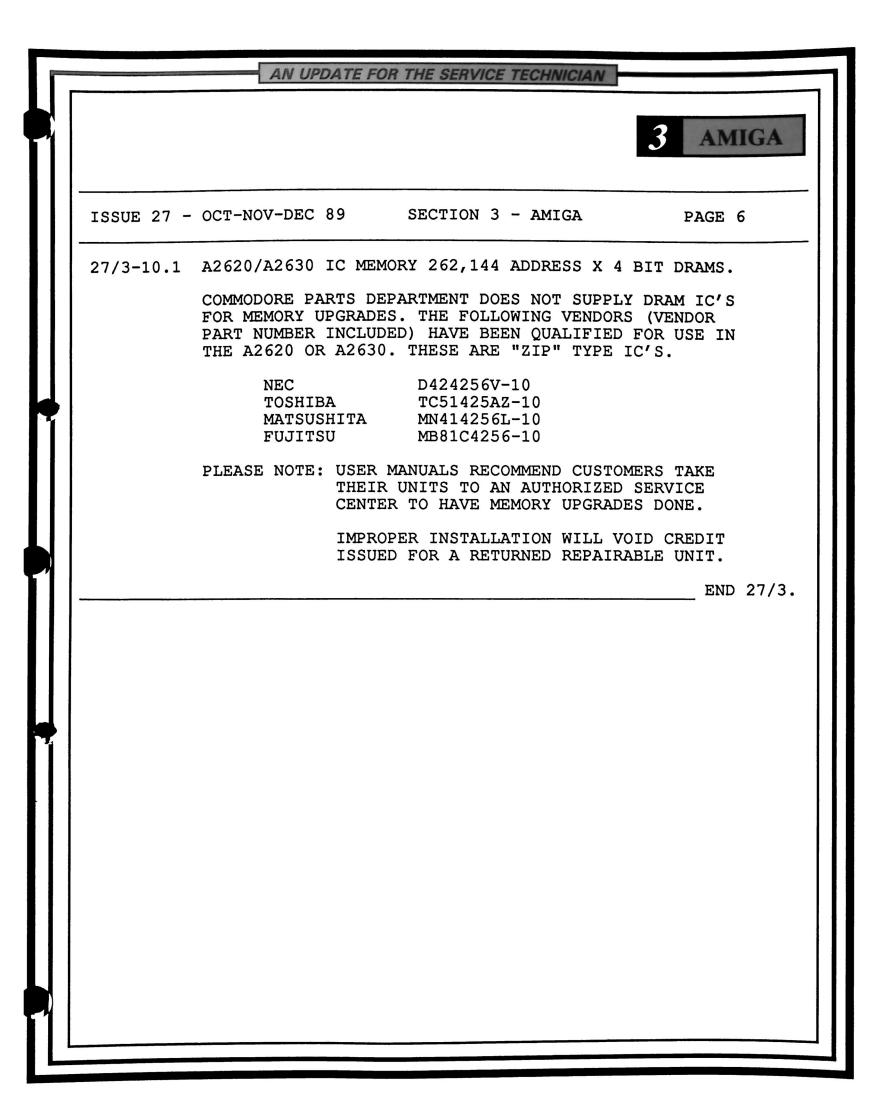
3 AMIGA ISSUE 27 - OCT-NOV-DEC 89 SECTION 3 - AMIGA PAGE 1 7/3-0.0 INDEX - AMIGA SECTION TECHTOPICS ISSUE 27. PAGE 1 7/3-1.1 A2000 REV6.0 AND REV6.1 BOARDS. PAGE 12. 7/3-1.1 A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFORT VIDEO. 7/3-1.1 A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFORT VIDEO. 7/3-1.1 A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFORT VIDEO. 7/3-1.1 A2020 APAST FILE SYSTEM UPDATE. 7/3-6.1 A2080 PORADE ROMS V3.6 AND PAL CHIPS 7/3-7.1 A2080 UPGRADE ROMS V3.6 AND FAL CHIPS 7/3-8.1 A2091 MEMORY AUTO-CONFIGURATION LIMITATIONS. 7/3-9.2 ENCLOSURE: A2630 SYSTEM SCHEMATICS. 7/3-1.1 A2000 REV6.0 AND REV6.1 BOARDS. 7/3-1.1 A2000 REV6 MOTHERBOARD WAS IMPLEMENTED TO CHANGE TO 256KX4 DRAMS, DUE TO THE SHORTAGE OF 256KX1 DRAMS. THIS CONCIDED WITH THE RELEASE OF THE NEW AGNUS CHIP (8372) THAT SUPPORTS IMB OF CHIP RAM. 7/3-1.1 A2000 REV6.0 AND REV6.1 BOARDS CORRECT THIS CONDITION. THA SUPPORTS IMB OF CHIP RAM. IT HAS COME TO OUR ATTENTION THAT SOME EXPANSION BOARDS COT WOR KAS RELIABLY IN SOME REV 6.0 MICHERBOARDS AS IN PREVIOUS REVS. REV6.2 MOTHERBOARDS CORRECT THIS CONDITION. THE ABOVE STATEMENT WAS ISSUED BY WEST CHESTER ENGINEERING (27/3-2.1 AND 27/3-3.1) DETAIL THE PROCEDURES F			AN UPDATE FOR THE SERVICE TECHNICIAN
 27/3-0.0 INDEX - AMIGA SECTION TECHTOPICS ISSUE 27. 27/3-1.1 A2000 REV6.0 AND REV6.1 BOARDS. 27/3-2.1 A2000 CR REV 6.0 PCB EXPANSION BUS PROBLEMS. 27/3-3.1 A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFECT VIDEO. 27/3-4.1 A2620/A2630 COPROCESSOR NEW ROM UPGRADE. 27/3-6.1 A2286 UPGRADE ROMS V3.6 AND PAL CHIPS 27/3-7.1 A2088 UPGRADE ROMS V3.6 AND PAL CHIPS 27/3-7.1 A2081 UPGRADE ROM SUBJECT CONFIGURATION LIMITATIONS. 27/3-8.1 A2091 MEMORY AUTO-CONFIGURATION LIMITATIONS. 27/3-9.1 A2630 SYSTEM SCHEMATICS, CEM PN# 314033-01 RELEASE. 27/3-10.1 A2620/A2630 IC MEMORY 262,144 ADDRESS X 4 BIT DRAM. 27/3-10.1 A2620/A2630 IC MEMORY 262,144 ADDRESS X 4 BIT DRAM. 27/3-10.1 A2620/A2630 IC MEMORY 262,144 ADDRESS X 4 BIT DRAM. 27/3-10.1 A2600 REV6.0 AND REV6.1 BOARDS. THE A2000 REV6.0 AND REV6.1 BOARDS. THE A2000 REV6 MOTHERBOARD WAS IMPLEMENTED TO CHANGE TO 256KX4 DRAMS, DUE TO THE SHORTAGE OF 256KX1 DRAMS. THIS COINCIDED WITH THE RELEASE OF THE NEW AGNUS CHIP (8372) THAT SUPPORTS IMB OF CHIP RAM. IT HAS COME TO OUR ATTENTION THAT SOME EXPANSION BOARDS DO NOT WORK AS RELIABLY IN SOME REV 6 MOTHERBOARDS AS IN PREVIOUS REVS. REV6.2 MOTHERBOARDS CORRECT THIS CONDITION. THE ABOVE STATMENT WAS ISSUED BY WEST CHESTER ENGINEERING OCTOBER 4, 1989. THE FOLLOWING TWO AMIGA SERVICE BULLETINS (27/3-2.1 AND 27/3-3.1) DETAIL THE PROCEDURES FOR FIELD SERVICE. 27/3-2.1 A2000 CR REV 6.0 PCB EXPANSION BUS PROBLEMS. IF PROBLEMS ON A2000 CR REV 6.0 PCB'S OCCUR, SUCH AS GURU CODES, AUTO-CONFIG OR SYSTEM HANGING UP, WITH SOME THIRD PARTY ADD-ON CARDS IT MAY BE THE RESULT OF MOTORIA TYPE 66000 CPU IC'S WHICH HAVE A MASK CODE 		3	AMIGA
 27/3-1.1 A2000 REV6.0 AND REV6.1 BOARDS. 27/3-2.1 A2000 CR REV 6.0 PCB EXPANSION BUS PROBLEMS. 27/3-3.1 A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFECT VIDEO. 27/3-4.1 A2620/A2630 COPROCESSOR NEW ROM UPGRADE. 27/3-5.1 A590 FAST FILE SYSTEM UPDATE. 27/3-6.1 A2286 UPGRADE ROMS V3.6 AND PAL CHIPS 27/3-7.1 A2088 UPGRADE ROMS V3.6 AND PAL CHIPS 27/3-9.1 A2630 SYSTEM SCHEMATICS, CBM PN# 314033-01 RELEASE. 27/3-9.2 ENCLOSURE: A2630 SYSTEM SCHEMATICS. 27/3-10.1 A2620/A2630 IC MEMORY 262,144 ADDRESS X 4 BIT DRAM. 27/3-10.1 A2600 REV6.0 AND REV6.1 BOARDS. THE A2000 REV6.0 AND REV6.1 BOARDS. THE A2000 REV6 MOTHERBOARD WAS IMPLEMENTED TO CHANGE TO 256x4X DRAMS, DUE TO THE SHORTAGE OF 256kX1 DRAMS. THIS COINCIDED WITH THE RELEASE OF THE NEW AGNUS CHIP (8372) THAT SUPPORTS 1MB OF CHIP RAM. IT HAS COME TO OUR ATTENTION THAT SOME EXPANSION BOARDS DO NOT WORK AS RELIABLY IN SOME REV 6 MOTHERBOARDS AS IN PREVIOUS REVS. REV6.2 MOTHERBOARDS CORRECT THIS CONDITION. THE ABOVE STATMENT WAS ISSUED BY WEST CHESTER ENGINEERING OCTOBER 4, 1989. THE FOLLOWING TWO AMIGA SERVICE BULLETINS (27/3-2.1 AND 27/3-3.1) DETAIL THE PROCEDURES FOR FIELD SERVICE. 27/3-2.1 A2000 CR REV 6.0 PCB EXPANSION BUS PROBLEMS. IF PROBLEMS ON A2000 CR REV 6.0 PCB'S OCCUR, SUCH AS GURU CODES, AUTO-CONFIG OR SYSTEM HANGING UP, WITH SOME THIRD PARTY ADD-ON CARDS IT MAY BE THE RESULT OF MOTORCLA TYPE 68000 CPU IC'S WHICH HAVE A MASK CODE 	-	ISSUE 27 -	OCT-NOV-DEC 89 SECTION 3 - AMIGA PAGE 1
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			GURU CODES, AUTO-CONFIG OR SYSTEM HANGING UP, WITH SOME THIRD PARTY ADD-ON CARDS IT MAY BE THE RESULT OF MOTOROLA TYPE 68000 CPU IC'S WHICH HAVE A MASK CODE

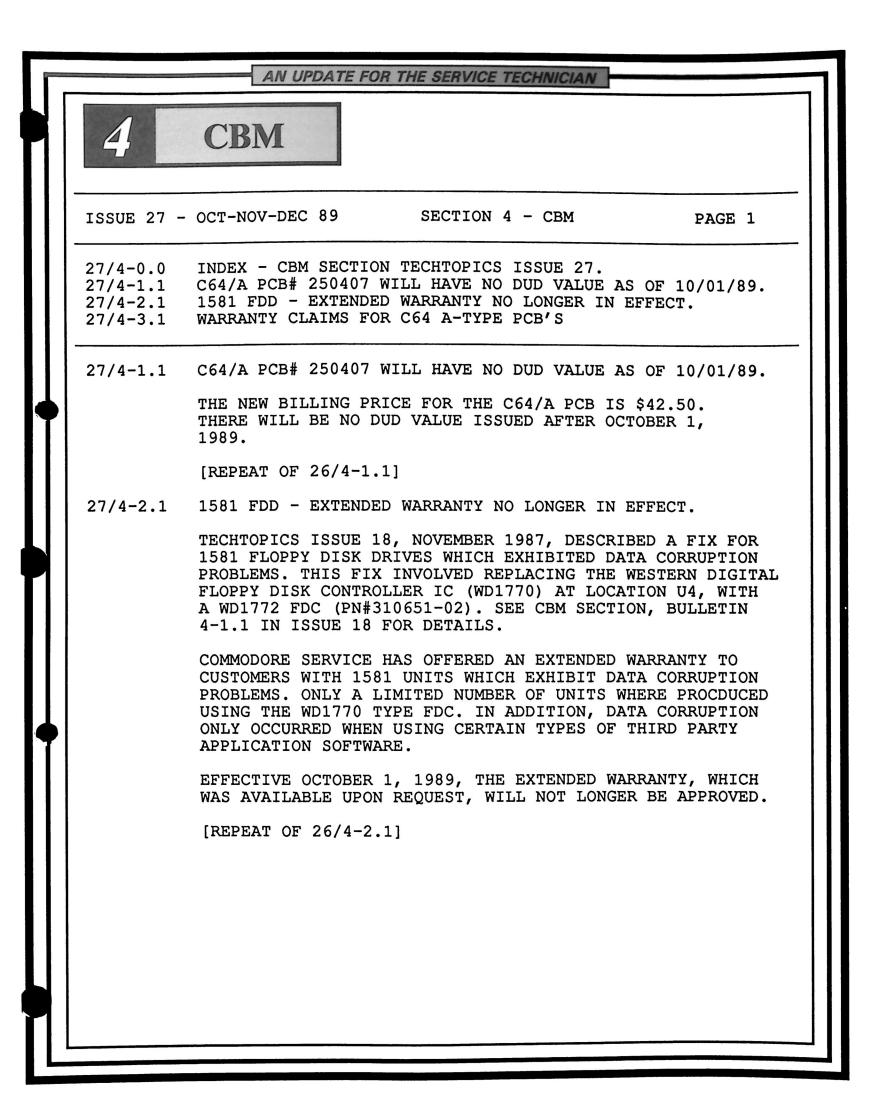
	AN UPDATE FOR THE SERVICE TECHNICIAN
	3 AMIGA
ISSUE 27 -	OCT-NOV-DEC 89 SECTION 3 - AMIGA PAGE 2
27/3-2.1	A2000 CR REV 6.0 PCB EXPANSION BUS PROBLEM (CONT)
	PARTS DEPARTMENT IS STOCKING SIGNETICS TYPE 68000'S UNDER PART NUMBER 390084-03, DEALER BILLING IS \$18.50. PLEASE NOTE: NO REIMBURSHMENTS WILL BE ISSUED FOR 68000 ICS NOT PURCHASED FROM COMMODORE. IN ADDITION ANY MOTOROLA 68000 ICS RETURNED FOR CREDIT WHICH DO NOT HAVE A MASK CODE OF 0B26 WILL BE RETURNED TO THE SERVICE CENTER WITH NO CREDIT ISSUED. IF AFTER REPLACING THE 68000 WITH A SIGNETICS TYPE THE PROBLEMS STILL OCCUR, THEN THE PCB WILL HAVE TO BE REPLACED.
	A SPECIAL WARRANTY RATE OF \$30.00 WILL BE PAID FOR REPLACEMENT OF THE SOCKETED MOTOROLA 68000'S WHICH HAVE A MASK CODE OF 0B26.
	IF PROBLEMS PERSIST AFTER THE 68000 IS REPLACED, THE MOTHER BOARD WILL HAVE TO BE EXCHANGED FOR THE CURRENT REVISION 6.2, A2000 PCB ASSY.
	[REPEAT OF 26/3-4.1]
27/3-3.1	A2000 POWER SUPPLY - 12 VOLT LOAD CAN EFFECT VIDEO.
	A2000 UNITS WITH PHI HONG TYPE POWER SUPPLIES WHICH ARE NOT PLACING A SIGNIFICANT LOAD ON THE 12 VOLT SOURCE (NO HARD DRIVE OR OTHER ADD-ONS USING 12 VOLTS) MAY EXHIBIT VIDEO PROBLEMS. CONFIGURATIONS WITH A HARD DISK DRIVE OR OTHER EXPANSION HARDWARE WHICH USES THE 12 VOLT SOURCE WILL NOT HAVE VIDEO FLICKER AND DO NOT REQUIRE THIS CHANGE.
	VIDEO NOISE OR FLICKERING, WHICH OCCURS DURING DISK OR PROCESSOR ACTIVITY CAN BE IMPROVED BY RE-ORIENTING OR BY REMOVING AND REPLACING WITH THE SAME VALUE, RESISTOR R215 (CBM PN#901550-118 1 OHM, 5%, 1/2W) AS DETAILED BELOW.
	NOTE: THIS UPDATE IS FOR UNITS WITH "PHI HONG" TYPE POWER SUPPLIES ONLY.

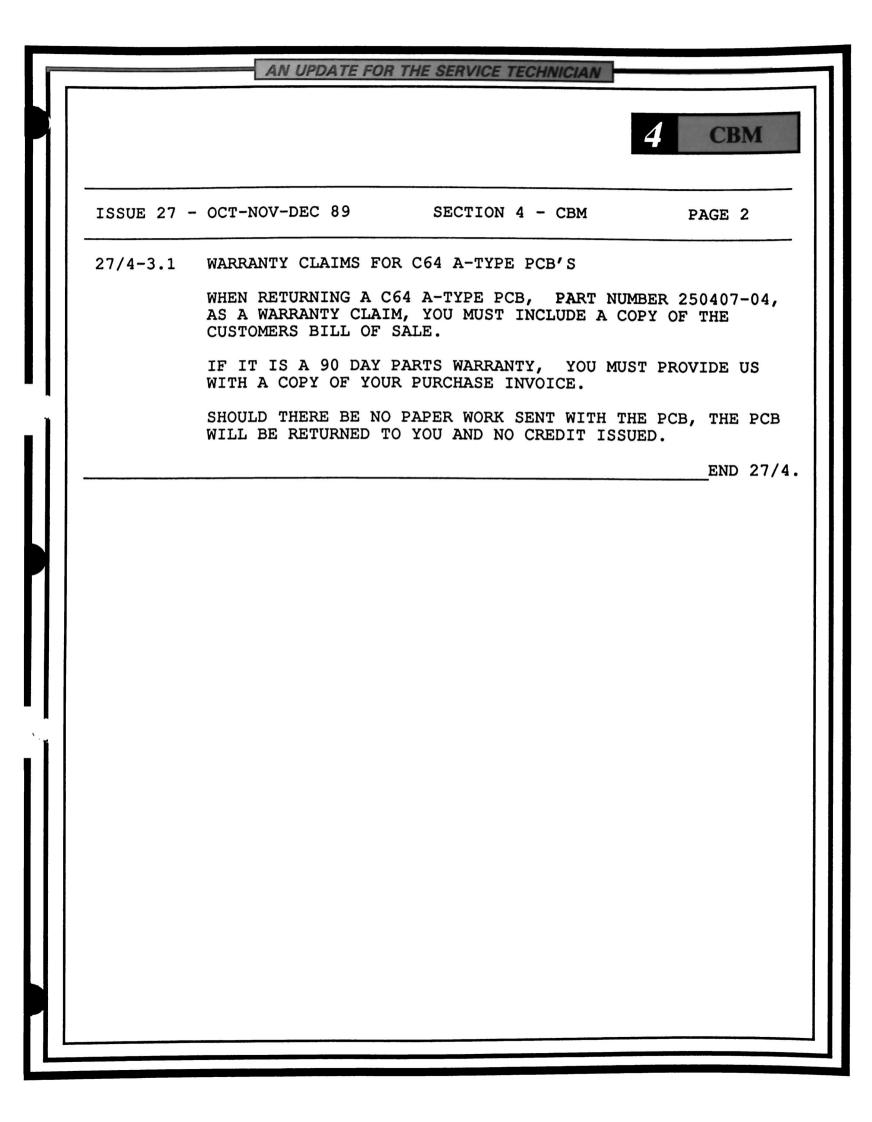
	AN UPDATE FOR THE SERVICE TECHNICIAN
	3 AMIGA
ISSUE 27 -	OCT-NOV-DEC 89 SECTION 3 - AMIGA PAGE 3
27/3-3.1	A2000 POWER SUPPLY - 12 VOLT CAN EFFECT VIDEO. (CONT) LOCATE R215 (ABOVE PIN 40 OF 8520 AT U300), CLIP OR UNSOLDER THE LEFT-HAND LEAD OF R215 (SIDE TOWARD EMI200). AND THEN SOLDER A PIECE OF JUMPER WIRE OR RESISTOR LEAD TO THE FREE END OF R215, EXTENDING IT ENOUGH (3/4") TO REACH THE FEEDTHRU HOLE LOCATED BETWEEN EMI310 AND EMI301. (THIS FEEDTHRU HOLE IS ABOUT 1/4" ABOVE THE RIGHT SIDE
	OF R310.) THE LEFT-HAND LEAD OF R215, AFTER BEING CLIPPED, WILL BE TOO SHORT TO REACH THE FEEDTHRU HOLE. YOU MAY EXTEND THE LEAD AS DESCRIBED ABOVE, OR REPLACE R215 WITH A NEW RESIS- TOR (1 OHM, 5%, 1/2W) PLACING IT MID-WAY BETWEEN THE RIGHT SIDE FEEDTHRU HOLE OF R215 AND THE FEEDTHRU HOLE BETWEEN EMI310 AND EMI301. THERE ARE NO EXPOSED COMPONENTS OR TRACES BETWEEN THE THE TWO POINTS, HOWEVER A GOOD PROCEDURE WOULD INCLUDE INSULATING BOTH SIDES OF THE RESISTOR LEADS WITH SHRINK TUBING BEFORE SOLDERING.
	A WARRANTY RATE OF \$30.00 WILL BE CREDITED FOR THIS UPGRADE. [REPEAT OF 26/3-5.1]
27/3-4.1	A2620/A2630 COPROCESSOR NEW ROM UPGRADE.
	A NEW SET OF ROMS FOR BOTH THE A2620 AND A2630 HAVE BEEN RELEASED AND WILL BE AVAILABLE THROUGH THE PARTS DEPARTMENT SOON. THE NEW PART NUMBERS ARE 390282-04 AND 390283-04.
	THE NEW ROMS CORRECT AUTOCONFIG AND OUT OF MEMORY ERRORS.
27/3-5.1	A590 FAST FILE SYSTEM UPDATE.
	THE A590 HARD DRIVE COMES WITH FACTORY INSTALLED SOFTWARE. ON SOME UNITS THE FAST FILE SYSTEM WHICH WAS INSTALLED NEEDS TO BE UPDATED FOR CERTAIN THIRD PARTY SOFTWARE TO OPERATE CORRECTLY.
	TO UPDATE THE A590 WITH THE NEW VERSION OF FAST FILE SYSTEM USE THE INSTALL DISK, WHICH IS INCLUDED WITH THE A590, OPEN THE WINDOW MARKED "UPDATE FASTFILE" AND CLICK.



AN UPDATE FOR THE SERVICE TECHNICIAN AMIGA ISSUE 27 - OCT-NOV-DEC 89 SECTION 3 - AMIGA PAGE 5 A2091 MEMORY AUTO-CONFIGURATION LIMITATIONS. 27/3 - 8.1THE A2091 HARD DISK CONTROLLER INCLUDES SOCKETS FOR THE INSTALLATION OF DRAM CHIPS FOR MEMORY EXPANSION. JUMPERS ARE PRESENT ON THE BOARD, AND ARE DESCRIBED IN THE USERS MANUAL WHICH SUPPORT THE PRESENCE OF NONE, 512K, 1M, 2M-BYTE OF MEMORY, HOWEVER ONLY THE NONE AND THE 2M-BYTE SETTINGS WORK CORRECTLY IN ALL SYSTEM CONFIGURATIONS. IF EITHER THE 512K OR 1M SETTING IS USED THE BOARD MAY NOT FUNCTION CORRECTLY, DEPENDING ON WHETHER OTHER BOARDS CONTAINING MEMORY ARE PRESENT AND ARE IN SLOTS THAT ARE CONFIGURED BY THE SYSTEM BEFORE THE SLOT CONTAINING THE A2091. WHEN THIS SITUATION OCCURS THE WRONG "BANK" OF CHIPS ON THE A2091 IS SELECTED AND THE SYSTEM WILL NOT BOOT. IN MOST CASES THE INITIAL INSTALLATION OF THE A2091 WILL NOT CAUSE ANY IMMEDIATE PROBLEM, BUT CONCERN EXISTS THAT WHEN THE CUSTOMER ADDS ADDITIONAL BOARDS TO THE SYSTEM, THE CONFIRGUATION WILL CHANGE AND THE A2091 BOARD WILL NO LONGER WORK. OBVIOUSLY, THIS WOULD LEAD TO SOME CONFUSION ABOUT WHICH BOARD IS ACTUALLY CAUSING PROBLEMS. WE STRONGLY RECOMMEND USING ONLY THE NONE AND 2M-BYTE SETTINGS, HOWEVER IF THE SMALLER SETTINGS ARE REQUIRED THEN THE BEST OPTION IS TO PUT THE A2091 BOARD IN THE "FIRST" SLOT. IN ALL US PRODUCTION (REV4 AND REV6) MOTHERBOARDS, THIS IS THE SLOT NEAREST THE POWER SUPPLY (NOT INCLUDING THE CO-PROCESSOR SLOT). ON OLDER MOTHER-BOARD REVISIONS, IT IS THE SLOT FARTHEST AWAY FROM THE POWER SUPPLY. A2630 SYSTEM SCHEMATICS, CBM PN# 314033-01 RELEASE. 27/3-9.1 MAILED WITH TECHTOPICS ISSUE 27, FOR AMIGA AUTHORIZED SERVICE CENTERS ONLY, ARE THE A2630 SYSTEM SCHEMATICS. ENCLOSURE: A2630 SYSTEM SCHEMATICS. 27/3-9.2 ENCLOSED IN TECHTOPICS ISSUE 27, CBM PN# 314033-01 A2630 SYSTEM SCHEMATICS.







AN UPDATE FOR THE SERVICE TECHNICIAN



SECTION 5 - PC ISSUE 27 - OCT-NOV-DEC 89 PAGE 1 INDEX - PC SECTION TECHTOPICS ISSUE 27. 27/5 - 0.0PC40-III OUANTUM HARDDRIVE UPGRADE. 27/5 - 1.127/5-2.1 COLT 286 SERVICE MANUAL, CBM PN# 314118-02 RELEASE. ENCLOSURE: COLT 286 SERVICE MANUAL. 27/5-2.2 PC40-III QUANTUM HARDDRIVE UPGRADE. 27/5-1.1 UPGRADE ROM FOR THE PC40-III QUANTUM HARDDRIVES. THE UPGRADE IS FOR THE (INTERMITTENT) 1782 CONTROLLER ERROR BEING FOUND ON THE PC40-III. IF THE ERROR IS HAPPENING ON EVERY BOOT-UP, THE PROBLEM IS NOT WITH THE ROM. IF YOU HAVE THE PROBLEM ON EVERY BOOT-UP, THE HARDDRIVE MUST BE REPLACED. THE CHIP IS SOCKETED ON THE HARDDRIVE PCB AT LOCATION, IC201. THERE ARE THREE (3) DIFFERENT TYPES OF BOARDS ON THE DRIVES. TWO OF WHICH CAN BE UPGRADED. THE METHOD TO DETERMINE THE REVISION IS TO LOOK AT THE REVISION OF THE ADAPTEC AIC-560 (IC206) COMPONENT ON THE HARDDRIVE PCB. IF THE IC IS MARKED "560AL", THIS DRIVE CANNOT BE UPGRADED AND MUST BE REPLACED THRU COMMODORE. IC'S MARKED "560BL" OR "560CL", INDICATE THE LATEST REVISION HARDDRIVE HARDWARE AND CAN BE UPGRADED WITH THE 6.8 ROM. THE MODEL NUMBERS OF THE THREE TYPES OF DRIVES ARE: 940-40-9100 - CANNOT BE UPGRADED. 940-40-9102 - CAN BE UPGRADED. 940-40-9103 - DOES NOT NEED TO BE UPGRADED. THE PART NO. IS 314035-01, THE DEALER BILLING IS \$20.00. THE FULL CREDIT WILL BE ISSUED BACK WHEN THE OLD ROM IS RETURNED TO COMMODORE. COLT 286 SERVICE MANUAL, CBM PN# 314118-02 RELEASE. 27/5 - 2.1MAILED WITH TECHTOPICS ISSUE 27, FOR PC AUTHORIZED SERVICE CENTERS ONLY, IS THE COLT 286 SERVICE MANUAL.

	AN UPDATE FOR THE SERVICE TECHNICIAN	
		PC
ISSUE 27 -	OCT-NOV-DEC 89 SECTION 5 - PC	PAGE 2
27/5-2.2	ENCLOSURE: COLT 286 SERVICE MANUAL.	
	ENCLOSED IN TECHTOPICS ISSUE 27, CBM PN# 314 COLT 286 SERVICE MANUAL.	1118-02
		END 27/5.
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