Produced By:

Commodore International Spare Parts GmbH Braunschweig, West Germany

SYSTEM SCHEMATICS

A600

APRIL, 1992

PN-400422-02

INTERNATIONAL EDITION

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Commodore Business Machines, Inc.

1200 Wilson Drive, West Chester, Pennsylvania 19380 U.S.A.

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SCHEMATIC #315987, REV. C	

SPECIFICATIONS

INTRODUCTION

The A600 is a feature enhanced version of the A500 personal computer, in a smaller case with no numeric keypad.

FEATURES

CPU:

7.16MHz 68000 NTSC

7.09 MHz 68000 PAL

MEMORY:

512KB or 1MB internal expandable with additional 1MB external (A601)

KICKSTART ROM:

512K (V2.XX)

MASS STORAGE MEMORY:

Internal, 3.5 inch FDD mounted on the right side.

The A600 HD will contain a 2.5" IDE HDD.

ADDITIONAL FEATURES:

PCMCIA/JEIDA Standard, Memory and I/O card interface.

IDE Hard Drive Interface (2.5" form factor)

Color Composite Video output

RF Audio/Video Output

NEW ADDITIONS

- 1) 8375 FAT AGNUS which supports 2 Meg. of Chip RAM
- 2) 8373 ECS Denise
- 3) Full ECS support
- 4) V2.XX in ROM
- 5) Memory and I/O card interface
- 6) IDE Hard Drive Interface (2.5")
- 7) Color Composite Video Output
- 8) RF Video/Audio Output

CUSTOM CHIPS

The A600 custom chip set has been repackaged in PLCC form for surface mounting application. The A600 will use the 8375 2MB Fat Agnus, the 8373 ECS Denise and the 8364R7 Paula Chip which remains functionally unchanged. Lastly, the A600 will use an enhanced version of the 5719 Gary chip called Gayle, which supports the memory, I/O card interface and the IDE Hard Drive interface.

EXTERNAL SYSTEM I/O

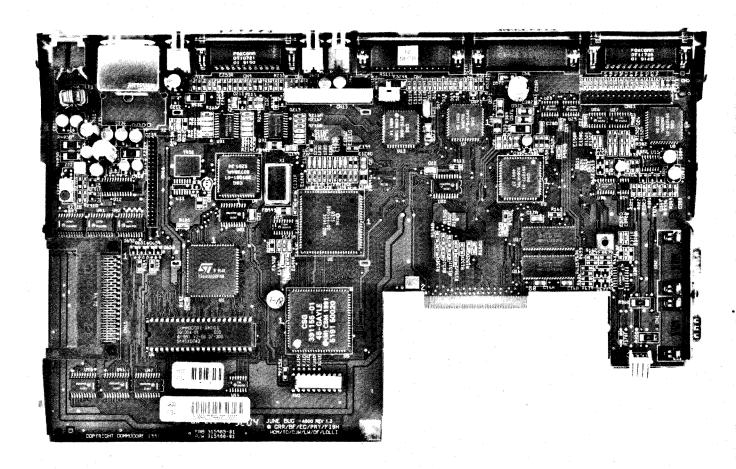
External floppy, Serial, Parallel, Mouse, Joystick, Stereo Audio Ports — these Ports remain unchanged from their A500 counterparts.

PC CARD
PCMCIA SIGNAL DESCRIPTIONS

1	CIA	SIGNAL	, Di	SCRIPT
	No.	Ver. 3	No.	Ver. 3
	1	GND	35	GND
	2	D3	36	CD1
	2	D4	37	D11
	4	D5	38	D12
	5	D6	39	D13
	6	D7	40	D14
	7	CE1	41	D15
	8	A10	42	CE2
	9	ŌĒ	43	(RFSH)
	10	A11	44	(OP1)
	11	A9	45	(OP2)
	12	A8	46	A17
	13	A13	47	A18
	14	A14	48	A19
	15	WE/PGM	49	A20
	16	(RDY/BSY)	50	A21
	17	VCC	51	VCC
	18	VPP1	52	VPP2
	19	A16	53	A22
	20	A15	54	A23
	21	A12	55	RFU
	22	A7	56	RFU
	23	A6	57	RFU
	24	A5	58	RFU
	25	A4	59	RFU
	26	A3	60	RFU
	27	A2	61	(REG)
	28	A1	62	OP3
	29	A0	63	BVD1
	30	D0	64	D8
	31	D1	65	D9
	32	D2	66	<u>D10</u>
	33	WP	67	CD2
	34	GND	68	GND

IDE SIGNAL DESCRIPTIONS

Pin	Signal	Pin	Signal
1	- Host reset	2	Ground
3	+ Host data 7	4	+ Host data 8
5	+ Host data 6	6	+ Host data 9
7	+ Host data 5	8	+ Host data 10
9	+ Host data 4	10	+ Host data 11
11	+ Host data 3	12	+ Host data 12
13	+ Host data 2	14	+ Host data 13
15	+ Host data 1	16	+ Host data 14
17	+ Host data 0	18	+ Host data 15
19	Ground Ground	20	Key
21	Reserved	22	Ground
23	– Host Low	24	Ground
25	— Host IOR	26	Ground
27	Reserved	28	+ Host ALE
29	Reserved	30	Ground
31	+ Host IRQ 14	32	- Host IO 16
33	+ Host Addr 1	34	- Host PIAG
35	+ Host Addr 0	36	+ Host Addr 2
37	- Host CS 0	38	- Host CS 1
39	- Host SLV/ACT	40	Ground



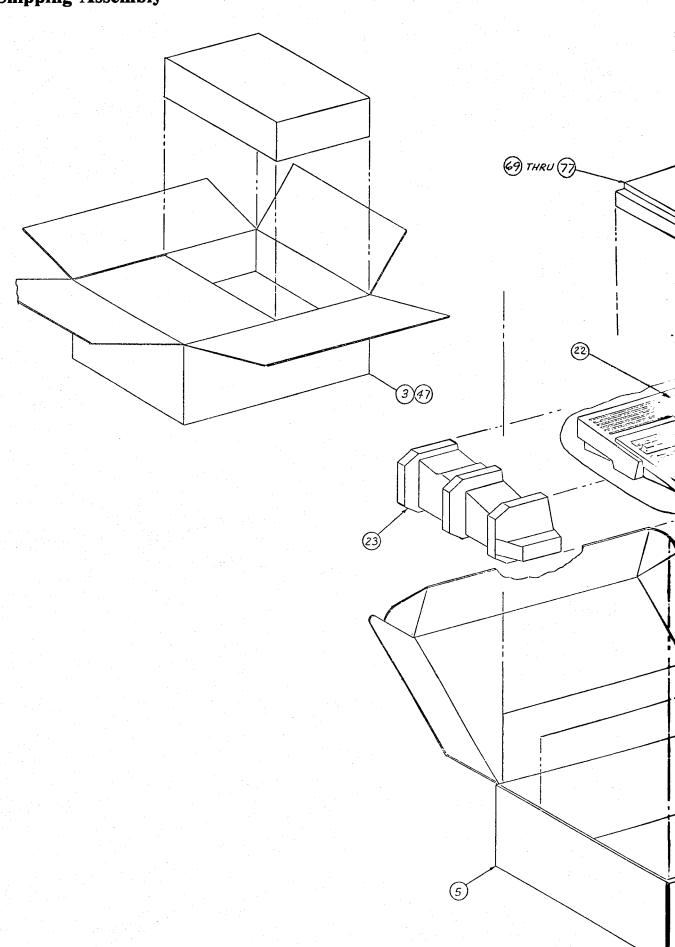
KEY COMPONENTS

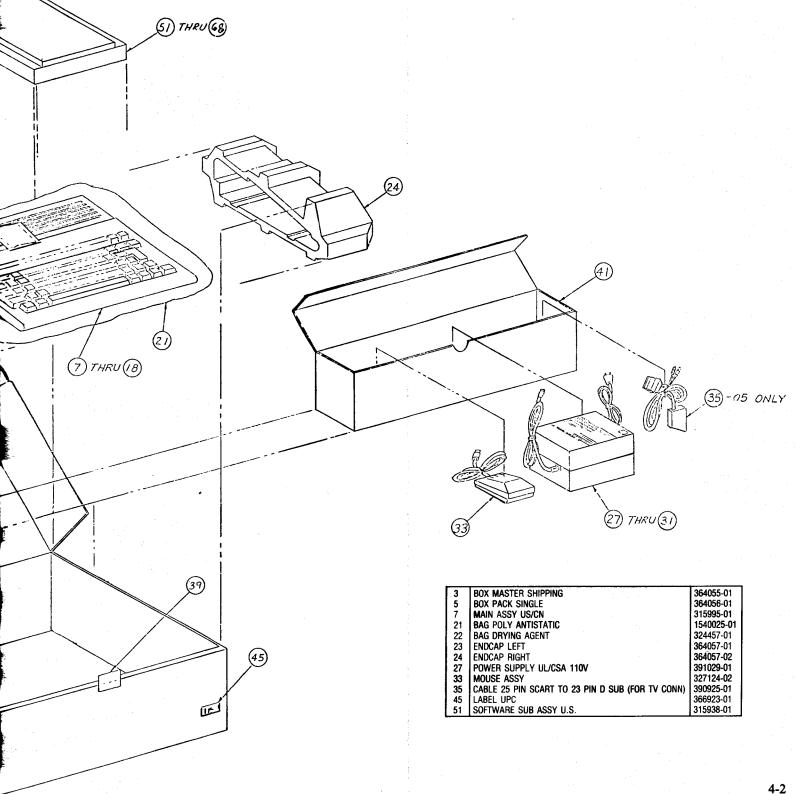
Ref.	Chip	Description	Part Number
U1	68000	68000 Processor 8MHz	390084-01
U2	8375	ECS Agnus A300/A500 +	390544-01
U3	8364	Paula	391077-01
U4	8373	ECS Denise	391081-01
U5	4145-20	Gayle Gate Array	391155-01
U6	ASST	ROM 256Kx16, 200ns	391304-01
U7-8	8520	Amiga VIA. 1 MHz	391078-01
U10-11	28F10	Flash Memory 128Kx8	
U12	CXA1145	Sony Video Encoder	391084-01
U13	6570-30	Amiga Keyboard MPU	391079-01
U14	NE555	Reset Timer	391104-01
U16-17	ASST	Dram 256Kx16, 120ns	391105-01
U15	LF347	Bimos Op-Amp	391103-01
1	TL084	Bimos Op-Amp	391103-01
U28	1488	EIA Line Driver	39 1087- 01
U29	1489	EIA Line Receiver	391086-01
X1	OSC	TTL 28.63636 MHz NTSC	325566-14
1	OSC	TTL 28.37512 MHz PAL	252344-01
Y451	XTAL	4.43619 MHz PAL Burst	252345-01
Y621	XTAL	3 MHz Ceramic Resonator	391156 -01
X2	ASST	PAL Video Modulator	313371-05
1	ÁSST	NTSC Video Modulator	313371-01

CONNECTORS

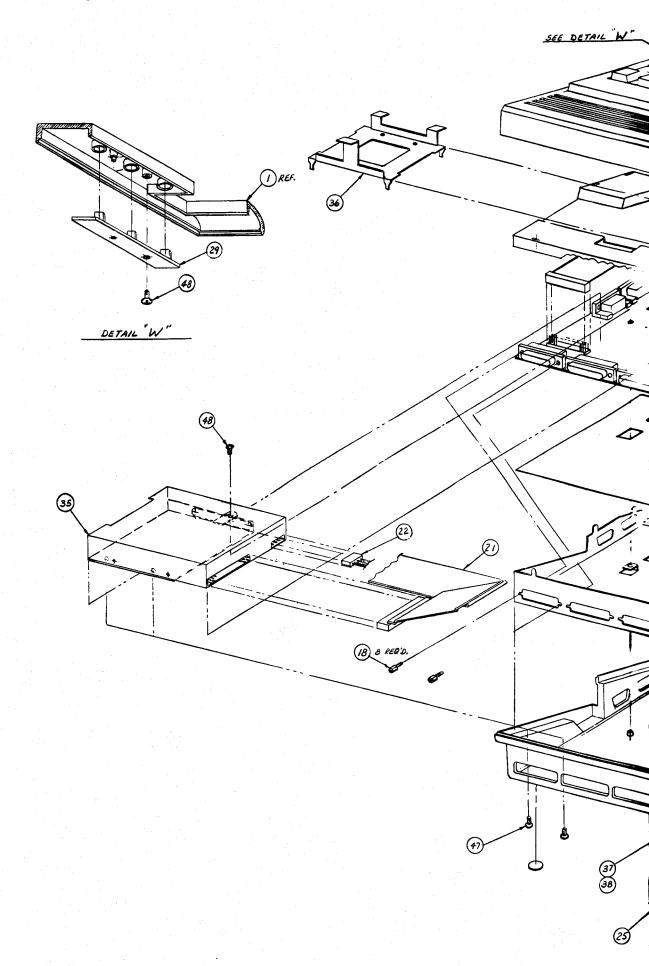
Ref.	Туре	Description	Part Number
CN1	DB9P	Mouse/Joystick 1	390242-01
CN2	DB9P	Mouse/Joystick 2	390242-01
CN3	RCA-J	Right Audio Output	252122-02
CN4	RCA-J	Left Audio Output	252122-01
CN5	DB23S	External Floppy	390241- 03
CN6	DB25P	RS232 Serial Port	
CN7	DB25S	Parallel Printer Port	390241-05
CN8	SQ DIN	Power Supply Connector	252167-01
CN9	DB23P	Video Output	390242-03
CN10	RCA-J	Composite Video	252122-01
CN11	DIL-34	Internal Floppy Signal	903345-17
CN12	SIL-4	Internal Floppy Power	325516-04
CN13	MEM-30	Keyboard Membrane	390492-02
CN14	SIL-4	Internal Floppy Power	
CN13	MEM-30	Keyboard Membrane	
CN14	SIL-4	Keyboard Status LED's	391314-01
CN15	PCMCIA	PC "Memory Card"	391073- 01
P9	EDGE-80	Memory Bus Expansion	

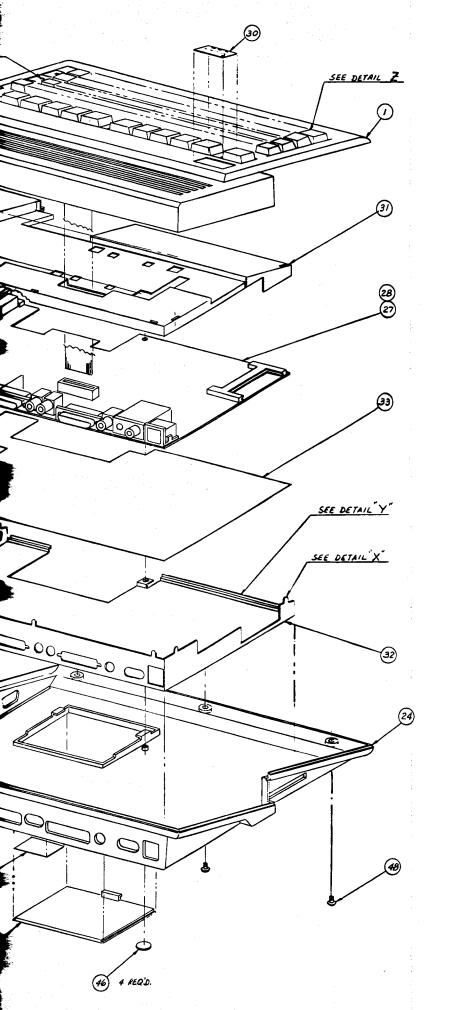
Shipping Assembly

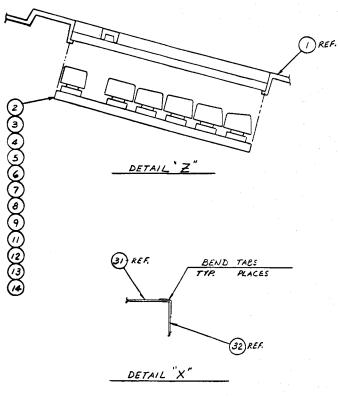


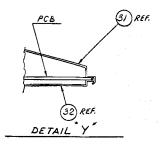


Main Assembly









1	TOP CASE	363786-01
18	JACKPOST STANDOFF (QTY 8)	390251-01
21	CABLE ASSY FLOPPY DISK DRIVE	364423-01
22	HARNESS DISK POWER ASSY	327207-02
24	BOTTOM CASE	363787-01
25	RAM DOOR	363899-01
27	PCB ASSY NTSC	315986-01
28	PCB ASSY PAL	315986-02
29	LED ASSY	315992-01
30	NAMEPLATE A600	363951-01
31	TOP SHIELD	363788-01
32	BOTTOM SHIELD	363789-01
33	INSULATION SHEET	363790-01
34	BRACKET SUPPORT FDD	363795-01
35	DRIVE FLOPPY DISK 3.5"	363914-01
36	SUPPORT HARD DISK DRIVE	363969-01
37	LABEL RATING & SERIAL PAL	366800-01
38	LABEL RATING & SERIAL NTSC	366800-02
46	FEET RUBBER WHITE (QTY 4)	950150-01
47	SCREW 3M X 6.0MM MACH PHL PH (QTY 4)	906800-05
	FASTEN FOO TO BOTTOM CASE	

Commodore International Spare Parts ListSHIPPING ASSEMBLIES

Commodore part numbers are provided for reference only and do not indicate the availability of spare parts from Commodore. Industry standard parts (Resistors, Capacitors, Connectors) should be secured locally. Part number information may vary according to country, some parts may not be available in all countries. Part Numbers are subject to change.

A600 SHIPP	ING ASSY		NG ASSY (Continued)
530300-01	U.S.		POWER SUPPLY BSI 240V
530300-02		391029-03	POWER SUPPLY VDE 220V
530300-03	II.K		POWER SUPPLY SEV 220V
	GR	391029-05	POWER SUPPLY SAA 220V
530300-05	FR	327124-02	MOUSE ASSY
	ir l	390925-01	CABLE 25 PIN SCART TO 23 PIN D SUB (FOR TV CONN)
530300-07	SP I	364346-01	BOX ACCESSORY
530300-08			SPACER CARDBOARD
530300-09	SF		SPACER CARDBOARD
530300-10	AU NOT USED	318143-02	
	NR I	366923-01	
	SD	368084-01	SEAL TAMPER EVIDENT (2 ON SINGLE PACK BOX FLAPS)
530300-13	FN		TAPE ADHESIVE TRANSPARENT 50MM
	NE I		SOFTWARE SUB ASSY U.S.
530300-15	DN		SOFTWARE SUB ASSY CN
530300-16	BF		SOFTWARE SUB ASSY UK
530300-17	BD		SOFTWARE SUB ASSY GR
530300-18	AL		SOFTWARE SUB ASSY FR
530300-19	CEL		SOFTWARE SUB ASSY IT
	PG I		SOFTWARE SUB ASSY SP
364055-01	BOX MASTER SHIPPING		SOFTWARE SUB ASSY SG
364056-01	BOX PACK SINGLE		SOFTWARE SUB ASSY SF
315995-01	MAIN ASSY US/CN		SOFTWARE SUB ASSY NR
	MAIN ASSY GR/AU		SOFTWARE SUB ASSY SD
	MAIN ASSY FR/BE		SOFTWARE SUB ASSY FN
	MAIN ASSY SD/FN		SOFTWARE SUB ASSY NE SOFTWARE SUB ASSY DN
315995-05	MAIN ASSY SP		SOFTWARE SUB ASSY BF
315995-06	MAIN ASSY DN MAIN ASSY SEV MAIN ASSY NR		SOFTWARE SUB ASSY AL
315995-07	MAIN ASSY SEV		MANUAL INTRODUCING THE A600 ENGLISH
315995-08	MAIN ASSY NR		MANUAL INTRODUCING THE A600 GERMAN
	MAIN ASSY NE		MANUAL INTRODUCING THE AGOO FRENCH
	MAIN ASSY UK/AL		MANUAL INTRODUCING THE A600 ITALIAN
	MAIN ASSY IT		MANUAL INTRODUCING THE AGOO SPANISH
	MAIN ASSY PG		MANUAL INTRODUCING THE AGOD SPANISH
1540025-01	BAG POLY ANTISTATIC		MANUAL INTRODUCING THE AGOO SWEDISH
	BAG DRYING AGENT		MANUAL INTRODUCING THE AGOO DUTCH
	ENDCAP LEFT		MANUAL INTRODUCING THE A600 DANISH
364057-02	ENDCAP RIGHT POWER SUPPLY UL/CSA 110V	300-7-4-01	MINIONE MITTODOGING THE 1995 BANKOT

Commodore International Spare Parts ListA600 MAJOR ASSEMBLIES

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HUL DE AV	aliable iii ali countiles.		
315995-01	MAIN ASSY US/CN	315986-02	PCB ASSY PAL
	MAIN ASSY GR/AU	315986-03	PCB NTSC 1M
	MAIN ASSY FR/BE	315992-01	
315995-04	MAIN ASSY SD/FN		NAMEPLATE A600
315995-05	MAIN ASSY SP		TOP SHIELD
	MAIN ASSY DN		BOTTOM SHIELD
315995-07	MAIN ASSY SEV	363790-01	
	MAIN ASSY NR	363795-01	
315995-09	MAIN ASSY NE		DRIVE FLOPPY DISK 3.5"
	MAIN ASSY UK/AL	363969-01	SUPPORT HARD DISK DRIVE
	MAIN ASSY IT		LABEL RATING & SERIAL PAL
315995-12	MAIN ASSY PG		LABEL RATING & SERIAL NTSC
363786-01	TOP CASE KEYBOARD ASSY US/CN KEYBOARD ASSY GERMAN KEYBOARD ASSY FRENCH KEYBOARD ASSY SWEDISH/FINNISH KEYBOARD ASSY FINNISH KEYBOARD ASSY DANISH KEYBOARD ASSY SWISS		LABEL RATING & SERIAL PAL (SUBSTITUTE)
363756-01	KEYBOARD ASSY US/CN		LABEL RATING & SERIAL NTSC (SUB)
363756-04	KEYBOARD ASSY GERMAN		LABEL RATING & SERIAL PAL (SUB)
363756-05	KEYBOARD ASSY FRENCH		LABEL RATING & SERIAL NTSC (SUB)
363756-12	KEYBOARD ASSY SWEDISH/FINNISH		LABEL RATING & SERIAL PAL (SUB)
363756-07	KEYBOARD ASSY FINNISH		LABEL RATING & SERIAL NTSC (SUB)
363756-15	KEYBOARD ASSY DANISH		FEET RUBBER WHITE (QTY 4) SCREW 3M X 6.0MM MACH PHL PH (QTY 4) FASTEN FDD TO BOTTOM
363756-08	KEYBOARD ASSY SWISS	906800-05	CASE
363756-11	KEYBOARD ASSY NORWEGIAN KEYBOARD ASSY UK/AUSTRALIA	906883-01	
	KEYBUARD ASSY UKVAUSTRALIA	900003-01	BOTTOM CASE
363756-06	KEYBOARD ASSY ITALIAN	364075-01	
	KEYBOARD ASSY PORTUGUESE		LED GREEN
	KEYBOARD ASSY BLANK		LED YELLOW
390251-01	JACKPOST STANDOFF (GTY 8) JACKPOST STANDOFF (SUB FOR 390251-01) JACKPOST STANDOFF (SUB FOR 390251-01) BOTTOM CASE		CONNECTOR HOUSING 4 POSITION
390251-03	JACKPOST STANDOFF (SUB FOR 390251-01)	391316-01	
324530-02 363787-01	DOTTOM CACE		WIRE AWG #24 BLACK 200MM LG.
363899-01	RAM DOOR	903756-02	
364423-01	CABLE ASSY FLOPPY DISK DRIVE	903756-03	WIRE AWG #24 ORANGE 200MM LG.
	HARNESS DISK POWER ASSY	903756-05	WIRE AWG #24 GREEN 200MM LG.
	PCB ASSY NTSC	30,00	,
313900-01	PUD AGGI NIGU	<u> </u>	<u> </u>

A601 RAM EXPANSION

580300-01	512K	580300-02	1M	

HARD DRIVE ACCESSORIES

368712-01 312896-01	INTRO MANUAL MANUAL USERS HDD ASSY CABLE HDD	II 367826-01	SCREW (QTY 4) DISK INSTALL 204 NAMEPLATE A600HD

Commodore International Spare Parts List PCB Components PCB Assembly A600

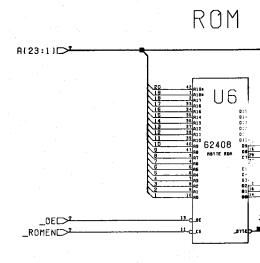
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39964-00 37976 ASMUS HR NUTS & PIN PLCC 12 22 23 25 25 25 25 25 2	not be ava	ailable in all countries.					
39964-00 37976 ASMUS HR NUTS & PIN PLCC 12 22 23 25 25 25 25 25 2	IC COMPON	ENTS		RESISTORS	- 1/8W 5% UNLESS OTHERWIS	E SPECIFIED (Continued)
39964-00 37976 ASMUS HR NUTS & PIN PLCC 12 22 23 25 25 25 25 25 2	390084-01	CPU MC68000FN8 8MHZ 68PIN PLCC	U1	310026-12	SM 68 OHM (1206)		E131R,E132R,E251R,
\$39054-01 \$37560 AGMUS RP PLL SPM PLC					,		
39115-90 1415-96F200 GAVE SAPIN PLCC U.S SSR (ESSR) ESSR (ES					·		
39/091-091 \$37984 DENNET REQUIRE NECTOR UA Santification UA Sa							
39079-01 53747-8414 74702 539079-01 539079-01 537078-01 55078-628-628-628-628-628-628-628-628-628-62							
391079-01 597194 KEYBO UP 44PM PLOC UM1Z U7.UB U31U32 U31U					i		
391078-01 391074					1		
931144-01 74-07244 SM U39139-01 74-070 SM U28 U39139-01 74-070 SM U28 U39139-01 74-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U391-070 74-070 SM U391-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 S	391 079-01	6571R4 KEYBD UP 44PIN PLCC					
931144-01 74-07244 SM U39139-01 74-070 SM U28 U39139-01 74-070 SM U28 U39139-01 74-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U2912-070 SM U391-070 74-070 SM U391-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 74-070 SM U391-070 S	391078-01	8520R4 CIA 44PIN PLCC 1MHZ	U7,U8				E556R,E558R,E581R-
1981 1997 174 175 175 18			H31.H32	1			E596R,E692R-E694R,
39114-01 74-727 SM							
391142-01 7-41527A SM PAL 391142-01 7-41527A SM U24, U22, U41-U43, U45 391142-01 7-41525 SM U21, U22, U41-U43, U45 391055-01 7-41525 SM U21, U22, U41-U43, U45 391055-01 7-41525 SM U27 391055-01 7-41525 SM U27 391055-01 7-41519 SM U28 391055-01 7-41519 SM U27 391055-01 SM 00 PM (1206) R23A, R291-R291-R291-R291-R291-R291-R291-R291-				210026 20	CM 75 OHM (1206)		
1/4012/56 March	391140-01	74F27 SM					
1/4012/56 March	391141-01	74LS74A SM PAL					
1989 1989	391210-01	/4ruz 3M					
391082-91 747526 SM 1025	391142-01	74LS245 SM					
391078-01 7-67199 SM 12758 SM 1275 SM			U47		SM 270 OHM (1206)		R214A,R215A,R216A
391078-01 7-67199 SM 12758 SM 1275 SM	391085-01	74LS157 SM	U34	310022-22	SM 330 OHM (1206)		R214F,R215F,R216F
391087-01 72255 SM 390087-03 72255 SM 391086-01 72255 SM							R235 R321 R331
20071-02 PAL. 16.188 LAWK (WILL BE USED ONLY TEMPORARILY WIFEVO GAYLE) U28 U29 U16 INTERPACE MICH8DD SM U29 U29 U15 U16 PART PERFACE MICH8DD SM U15							
TEMPORABILY WIFEV 0 GAYLE 128 13098-01 178			025				
391086-01 INTERFACE MC148BD SM				310026-21	SM 470 UHM (1200)		
39108-01 MTERRACE MICHAEDS SM U29 SM 10026-07 SM 2006-07 SM 10026-07 SM		TEMPORARILY W/REV 0 GAYLE)					
39108-01 INTERFACE MC1489D SM U29 U29 U29 U29 U115 U116	391087-01	INTERFACE MC1488D SM	l U28				R953C
101. R102. R222. R233 R331 R240 R25				310026-11	SM 820 OHM (1206)		R224
19110-01 Linkan Resp	201100 01	LINEAD LEGATITI OGAACID CM					
39113-01 DRAM 258K X 16 80NS SM U12 U12 U15 U16				310020-07	3W 1K 01W (1200)		
391394-01 ROM KICKSTART V2.0 40PIN DIP U6							
391084-01 VIDEO ENCODER CXA114SM SM							
CONNECTORS CONSTITUTION CONSTI					**		
D SUB 23 PIN FEMALE DB23S CN5 EXTERNAL FLOPPY ON 9 RGB VIDEO CN5 EXTERNAL FLOOR	391084-01	VIDEO ENCODER CXA1145M SM	U12				
SOUZE SOUZ	COMMECTOR	96		l			R238,R214B,R215B,
390242-03 D SUB 23 PIM ALLE DB29S ON PROB VIDEO ON PARALLEL PRINTER PORT ON PARALLEL PRINTER POR				l.			R216B (R244)
390247-00 D SUB 25 PIN PRANALE DB2DS CN7 PARALLEL PRINTER PORT 390242-01 D SUB 9 PIN MALE DB9P CN1, CN2, MOUSE/JOY-STICK 252122-01 RCA JACK WHITE CN4 LEFT AUDIO CN5 ES2167-01 DIN 5 PIN SQUARE CN12, FLORPY POWER LED 252122-02 RCA JACK BLACK CN3 RIAGHT AUDIO CN6 EQPL POWER CN12, FLORPY POWERLED 3252156-04 DIN 5 PIN SQUARE CN6 CPU POWER CN12, FLORPY POWERLED 310026-15 SM 47 K OHM (1206) 310026-17 SM 10K OHM (1206) 310026-18 SM 27 K OHM (1206) 310026-27 SM 27 OHM (1206) 310026-28 SM 0 OHM (1206) PAL JUMPERS 310026-26 SM 0 OHM (1206) PAL JUMPERS 310026-26 SM 0 OHM (1206) PAL JUMPERS 310026-26 SM 0 OHM (1206) PAL JUMPERS 310026-10 SM 47 OHM (1206) 310026-10 SM 47 OHM	390241-03	D SUB 23 PIN FEMALE DB23S		210026.25	CM 1 5K (1206)		
390241-05 D SUB 25 PIN FEMALE DB25S	390242-03	D SUB 23 PIN MALE DB23P	CN9 RGB VIDEO				
PORT			CN7 PARALLEL PRINTER				
Substitute Sub	000277	5 005 20 1 m 1 2m/122 55200					
STICK	200040 01	D CUD O DIN MALE DOOD		310026-08	SM 4.7K OHM (1206)		
252122-01 RCA JACK YELLOW POSITE VIDEO ON LEFT AUDIO CASE PROPRIES VIDEO CASE PROPRISE VIDEO	390242-01	D SUB 9 PIN MALE DOSP				·	R634,R636,R655,R951A-
Separate							951F,R370A-370H,R651,
252122-01 RCA JACK WHITE	252122-01	RCA JACK YELLOW					
252122-07 RC3 JACK WHITE UN4 LEFT AUDIO CN3 RC1 FT AUDIO CN3 RC3 JACK BLACK ON3 RIGHT AUDIO CN3 RC51 FT AUDIO CN1 FL OPPY POWER/LED CN12 FT AUDIO CN11 FL OPPY SIGNAL CN16 HDD CARD CN12 FT AUDIO CN13 RC52 R63			POSITE VIDEO				
252167-01 bil 5 Pils SQUARE CNS CPU POWER CNS CNS CNS CPU POWER CNS CNS CPU POWER CNS	252122-01	RCA JACK WHITE	CN4 LEFT AUDIO	210026 17	CM 10K 0HM (1206)		
252167-01 DIN 5 PIN SQUARE CN8 CPU POWER CN12,FLOPPY CN12,FLOPPY CN12,FLOPPY CN12,FLOPPY CN12,FLOPPY CN12,FLOPPY CN12,FLOPPY CN14,FR0571,R637, R635,R632,R633,R632,R634,R632,R633,R632,R634,R632,R633,R632,R634,R634,R634,R634,R634,R634,R634,R634	252122-02	RCA JACK BLACK	CN3 RIGHT AUDIO	310020-17	SWI TOK OFINI (1200)		
SIL 4PIN HEADER CN12_FLOPPY POWER/LED CN11 FLOPPY SIGNAL CN11 FLOPPY SIGNAL CN11 FLOPPY SIGNAL CN11 FLOPPY SIGNAL CN16 FDD CN13 KEYBOARD SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD CN14 LED SPIN RIGHT ANGLE APIN POLARIZED CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD CN14 LED SPIN RIGHT ANGLE APIN POLARIZED CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN13 KEYBOARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH DENSITY CN15 GREDIT CARD CN14 LED SPIN RIGHT ANGLE HIGH SHOP CN14 LED SPIN RIGHT ANGLE HIGH			CN8 CPU POWER				
903345-17 391073-01 391073				1			
903345-17 DIL 34PIN HEADER W/KEY (PIN3) CN11 FLOPPY SIGNAL CN16 HDD 9391073-01 68 PIN RIGHT ANGLE HIGH DENSITY CN15 CREDIT CARD CN13 KEYBOARD CN14 LED 391140-01 HEADER RT ANGLE 4 PIN POLARIZED CN14 LED 310026-27 SM 27K OHM (1206) R345 S10026-27 SM 27K OHM (1206) R345 S10026-27 SM 27K OHM (1206) R310026-28 SM 27K OHM (1206) R310026-28 SM 27K OHM (1206) R310026-29 SM 310026-29 SM 310026-29 SM 310026-29 SM 310026-29 SM 47K OHM (1206) R310026-29 SM 10 OHM (1206) R310026-29 SM 6.8K OHM (1206) R310026-39 SM 6.8K OHM	323310-04	SIE 4FIN HEADEN			•		R511F,RR5111,R637,
90345-17 DIL 34PIN HEADER W/KEY (PIN20) CN16 HDD 391073-01 68 PIN RIGHT ANGLE HIGH DENSITY CN15 CREDIT CARD CN13 KEYBOARD CN15 CREDIT CARD CN13 KEYBOARD CN14 LED 391314-01 HEADER M/KEY (PIN20) CN14 LED 391122-01 TRANS JFET MPF102/PN4302 SOT23 Q211-0213, Q231-Q233, Q31122-01 TRANS PNP 2N3904 SOT23 Q311, Q511, Q511, Q621, Q622, Q651, Q653, (Q461 PAL) Q651, Q653, (Q461 PAL) Q651, Q653, Q461 PAL) Q654, Q654 Q654 Q654 Q654 Q654 Q654 Q654 Q654					i .		R572,R623,R631,R633,
391132-01					·		
39149-02 3 PN LOCKING ZIF FFC C CN13 KEYBOARD CN14 LED Z391314-01 HEADER RT ANGLE 4 PIN POLARIZED CN14 LED Z391314-01 HEADER RT ANGLE 4 PIN POLARIZED CN14 LED Z391145-01 TRANS JFET MPF102/PN4302 SOT23 Q321,Q331 Q231-Q233, Q31122-01 TRANS NPN 2N3904 SOT23 Q211-0213,Q231-Q233, Q511,Q571,Q621,Q622, Q651,Q653,Q6451 PAL) Q341,Q631-Q653,Q6451 PAL) Q341,Q631-Q653,Q6451 PAL) Q341,Q631-Q654 Q654 Q654 Q654 Q654 Q654 Q654 Q654	3911 53-01	DIL 44PIN HEADER W/KEY (PIN20)	CN16 HDD	1			
39142-01 TRANS PNP 2N3904 SOT23 Q211-Q213,Q231-Q233, Q31122-01 TRANS PNP 2N3906 SOT23 Q341,Q631-Q654, Q654,Q652-Q6654 D571 DIODE 1N4148 SOT23 Q3128-01 DIODE 1N4148 SOT23 Q665,Q6652-Q6652	391073-01	68 PIN RIGHT ANGLE HIGH DENSITY	CN15 CREDIT CARD	1			
HEADER RT ANGLE 4 PIN POLARIZED CN14 LED	390492-02	30 PIN LOCKING ZIF FFC		040000 00	CN COK OUR (1000)		
TRANSISTORS AND DIODES 391145-01 TRANS JFET MPF102/PN4302 SOT23 Q321,Q331 Q231-Q233, Q351,Q351 TRANS NPN 2N3904 SOT23 Q321,Q351 Q251,Q571,Q621,Q622, Q651,Q653,Q461 PAL) Q651,Q653,Q461 PAL) Q654 Q657,Q653,Q652, Q65							
391145-01 TRANS JFET MPF102/PN4302 SOT23 Q321,Q331 Q211-Q213,Q231-Q233, Q511,Q571,Q621,Q622, Q651,Q653,(Q461 PAL) Q341,Q631-Q633,Q652, Q654 Q654 Q654 Q654 Q6570 DIODE 1N4148 SOT23 D571 DIODE 1N4148 SOT23 SW DIODE 1N4001 MELF D572-D576 DIODE 1N4001 MELF D572-D576 SW 0 OHM (1206) NTSC JUMPERS DTHERWISE SPECIFIED SU 2310026-26 SW 0 OHM (1206) PAL JUMPERS SU 2310026-10 SW 27 OHM (1206) PAL JUMPERS SU 253R,E331R,R203 (R624-R626 NOT STUFFED) SW 27 OHM (1206) SW 47 OHM (1206) SW 47 OHM (1206) R301,R302 SW 6818-03 SW 681 MOHM (1206) R301,R302 SW 6818-03 SW 681 MOHM (1206) R301,R302 SW 681 MOHM (12			10.11.1.22		SM 27K OHM (1206)		
391121-01 TRANS NPN 2N3904 SOT23	TRANSISTU	RS AND DIODES		310026-18	SM 33K OHM (1206)		R232A-R232C,R349
391121-01 TRANS NPN 2N3904 SOT23	391145-01	TRANS JFET MPF102/PN4302 SOT23	Q321,Q331		SM 47K OHM (1206)		R612
Q511,Q571,Q621,Q622,Q651,Q653,Q461 PAL) Q341,Q631-Q633,Q652,Q651,Q653,Q652,Q651,Q653,Q652,Q651,Q653,Q652,Q651,Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q631,Q631-Q633,Q652,Q651,Q651,Q653,Q652,Q651,Q653,Q652,Q651,Q653,Q652,Q651,Q653,Q652,Q652,Q651,Q653,Q652,Q652,Q652,Q652,Q652,Q652,Q652,Q652							R326,R336
391122-01 TRANS PNP 2N3906 SOT23 Q651,Q653,Q652, Q654 Q341,Q631-Q633,Q652, Q654 Q65	231.21 01						
391122-01 TRANS PNP 2N3906 SOT23 Q341,Q631-Q633,Q652, Q654 D571 D10DE 1N4148 SOT23 (SUB FOR 391129-01) D10DE 1N914 SOT23 (SUB FOR 391129-01) D571 D10DE 1N914 SOT23 (SUB FOR 391129-01) D571 D10DE 1N4001 MELF D572-D576 STUFFED) 310026-26 SM 0 OHM (1206) NTSC JUMPERS PECIFIED SUBJECT STUFFED) SI 10026-26 SM 0 OHM (1206) PAL JUMPERS STUFFED SI 10026-10 SM 27 OHM (1206) PAL JUMPERS STUFFED) SI 10026-01 SM 27 OHM (1206) SM 27 OHM (1206) PAL JUMPERS STUFFED SI 10026-01 SM 47 OHM (1206) SM 47 OHM (1206) PAL JUMPERS STUFFED SI 10026-01 SM 47 OHM (1206) PAL JUMPERS SI 129R,E150R		*		210020-20			
391129-01 DIODE 1N4148 SOT23 DIODE 1N914 SOT23 (SUB FOR 391129-01) D571 DIODE 1N4001 MELF D572-D576 RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225,(R624-R626 NOT STUFFED) STUFFED) S10026-10 SM 27 OHM (1206) R13,R114,R152B-R152R,E150R S10026-01 SM 47 OHM (1206) SM 47 OHM (1206) SM 47 OHM (1206) SM 47 OHM (1206) (C242 PAL) R246,R250R,E152R,E331R,R202, R310026-01 SM 47 OHM (1206) SM 47 OHM (1206) SM 47 OHM (1206) (C242 PAL) R258C,E260C,E-692C,E694C	004400 0	TRANC DUD CHOOCC CCTCC					
391129-01 DIODE 1N4148 SOT23 (SUB FOR 391129-01) D571 D571 D572 D576 RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225, (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E31R,R203 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E323R,R352,R362,R4626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E323R,R352,R362,R4626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E323R,R352,R362,R4626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E323R,E352,R362,R4626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E323R,E352,R362,R4626 NOT STUFFED) E328,E150R,	391122-01	TRANS PNP 2N3906 SU123					
391128-01 DIODE 1N914 SOT23 (SUB FOR 391129-01) D571 D572-D576 391327-01 DIODE 1N4001 MELF RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225,(R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E31R,R203 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R62				310026-41	CHIP SM 1.8K (1206)		
391128-01 DIODE 1N914 SOT23 (SUB FOR 391129-01) D571 D572-D576 391327-01 DIODE 1N4001 MELF RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225,(R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E31R,R203 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E3232R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E332R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E332R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E332R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) E33R,R303 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E332R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) SM 47 OHM (2512) 1W 5% E332R,R352,R362,R42 E33R,R303 (R624-R626 NOT STUFFED) E33R,R3	391129-01	DIODE 1N4148 SOT23	D571				
391327-01 DIODE 1N4001 MELF D572-D576 RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225, (R624-R626 NOT STUFFED) S10026-26 SM 0 OHM (1206) PAL JUMPERS SM 0 OHM (1206) PAL JUMPERS SM 27 OHM (1206) SM	391128-01	DIODE 1N914 SOT23 (SUB FOR 391129-01)	D571	310026-42	CHIP SM 180 OHM (1206)		(R236 FOR PAL)
RESISTORS — 1/8W 5% UNLESS OTHERWISE SPECIFIED 310026-26 SM 0 OHM (1206) NTSC JUMPERS' E321R,E331R,R202, R225,(R624-R626 NOT STUFFED) SM 10 OHM (1206) PAL JUMPERS E321R,E331R,R203 (R624-R626 NOT STUFFED) SM 10 OHM (1206) PAL JUMPERS SM 10 OHM (1206) PAL JUMPERS E321R,E331R,R203 (R624-R626 NOT STUFFED) SM 10 OHM (2512) 1W 5% R309,R405A,R405 (R624-R626 NOT STUFFED) 310026-10 SM 27 OHM (1206) R113,R114,R152B-R150R R113,R114,R152B-R152R R152H,E112R,E120R-E129R,E150R SM 10 OHM (1206) SM 10 OHM (1206) (C242 PAL) 310026-01 SM 47 OHM (1206) SM 10 OHM (1206) R214E,R215E,R216E R214E,R215E,R2					SM 4.02K OHM (1206) 1/8W 1%		R214D,R215D,R216D
310026-26 SM 0 OHM (1206) NTSC JUMPERS E321R,E331R,R202, R225,(R624-R626 NOT STUFFED) S10026-10 SM 27 OHM (1206) SM 27 OHM (1206) R13,R114,R152B-R152R,E120R-E129R,E150R 210026-01 SM 47 OHM (1206) SM 47 OHM (1206) SM 47 OHM (1206) R231R-E331R-E256R,E577R, SM 47 OHM (1206) R24B,R215B,R216B							
SM 0 OHM (1206) NTSC JUMPERS E32TR,E33TR,R202, R225,(R624-R626 NOT STUFFED) E32TR,E33TR,R203 (R624-R626 NOT STUFFED) E32TR,E33TR,R202, R39103-02 SM 47 OHM (2512) 1W 5% E32TR,E33TR,R203 (R624-R626 NOT STUFFED) E32TR,E33TR,R203							
310026-26 SM 0 OHM (1206) PAL JUMPERS	310026-26	SM 0 OHM (1206) NTSC JUMPERS	E321R,E331R,R202,				
STUFFED E321R,E331R,R203 (R624-R626 NOT STUFFED) E321R,E331R,R203 (R624-R626 NOT STUFFED) STUFFED E321R,E331R,R203 (R624-R626 NOT STUFFED) STUFFED	l	•	R225,(R624-R626 NOT				
310026-26 SM 0 OHM (1206) PAL JUMPERS							
CAPACITORS SM 27 OHM (1206) SM 27 OHM (1206) SM 27 OHM (1206) SM 27 OHM (1206) SM 47 OHM (1206)	310026.26	SM 0 OHM (1206) PAL HIMPERS				1	E232R,R352,R362,R406
STUFFED STUF	310020-20	SIVI O OTHE (1200) FAL SOWIFERS		391093-04	SM 47 OHM (2512) 1W 5%		E524R
310026-10 SM 27 OHM (1206) R113,R114,R152B- R152H,E112R,E120R- E129R,E150R E253R-E256R,E577R, 390818-03 SM NPO 15PF (1206) (C242 PAL) SM NPO 47PF (1206) E258C-E260C,E-692C E693C,E150C,E151-E	l			CAPACITOR	9		
R152H,E112R,E120R- E129R,E150R 310026-01 SM 47 OHM (1206) E258C-E260C,E-692C E253R-E256R,E577R, SM NPO 47PF (1206) E258C-E260C,E-692C					r·		(CO40 DAL)
E129R,E150R	310026-10	SM 2/ OHM (1206)					
310026-01 SM 47 OHM (1206) E253R-E256R,E577R,		*		390818-04	SM NPO 47PF (1206)		
	l		E129R,E150R		· ·		E693C,E150C,E151-E154,
	310026-01	SM 47 OHM (1206)	E253R-E256R E577R	1			
I LOUID, LOUGH, LOZAD I I LOBOLIO DO LANGUEU JOEF UZUDI (1024). 1024 I FALI			E561R,E562R,E524R	390818-05	SM NPO 56PF (1206)		C245, (C241 PAL)

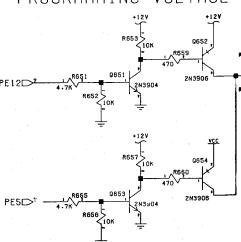
Commodore International Spare Parts List PCB Components (Continued) PCB Assembly A600

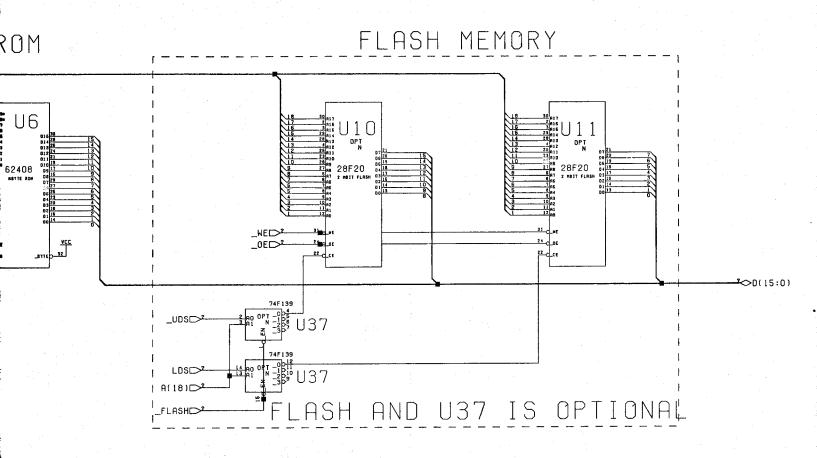
CAPACITOR	S (Continued)		CAPACITOR	S (Continued)	
390818-06	SM NPO 100PF (1206)	E231C,E251C-E257C, E261C,E262C,E266C, E267C,E511C-E523BC, E525C,E551C,E552C, E558C,E581C-E596C	Ĭ .	SM NPO 22PF (1206) ALUM ELECT 10UF 25V SM (C) ALUM ELECT 22UF 25V SM (D)	E112C,E122C-E129C, C621,C622 C214,C306,C460,C612 C303,C304,C324,C334, C459
	SM X7R 470PF (1206)	E3510,E3530,E3540, E3610,E3630,E3640, E3710-E3740,E5530- E5560		ALUM ELECT 47UF 16V SM (D) ALUM ELECT 100UF .63V SM (D) ALUM ELECT 1000UF 10V ALUM ELECT 470UF 16V	C821,C822 C235,C236,C239,C409 C408,C811 C237,C307
390853-07	SM X7R 1000PF (1206)	(C243 PAL)	MISCELLAN	IEOUS	
390853-08 390853-09	SM X7R 3900PF (1206) SM X7R 6800PF (1206)	C323,C333 E321C,E331C,C322,C332, E355C-E358C,E365C- E368C	391092-01 391092-01	FILTER CHIP FERRITE BEAD LARGE (1812) FILTER CHIP FERRITE BEAD MEDIUM (1206)	E301,FB991-FB993 E231R,E258R-E260R, E263R-E265R,E597R,
390853-01	SM X7R .01UF (1206)	C246,C27,C28A, C28B,C29,C33,C34,C36, C349,E597C,E598C,C591, C613,C800-C803,E232C, E263C-E265C,E524C, E557C,E561C,E562C, C592,C7,C8, (C244 PAL)	391146-02 391147-02 391146-01 391147-01 391138-01	INDUCTOR SM 1.2UH (1206)	E598R LF 1 Z221 Z222 Z222 Z221 Z222 (L241) Y621
390853-04 310027-02	SM X7R .047UF (1206) SM Z5U .1UF (1206)	C311-C314,C352 C221,C222,C362,C611, (C321,C331,NOT STUFFED)	391156-01 252345-01 325566-14 252344-01 904150-09	RESONATOR CERAMIC 3.00 MHZ XTAL 4.433619 MHZ OSCILLATOR 28.63636 MHZ NTSC OSCILLATOR 28.37516 MHZ PAL SOCKET 42 PIN DIP	(Y451) X1 (X1) U6
390797-01	SM Z5U .33UF (1210)	C12A,C12B,C13,C14, C16A,C16B,C17A,C17B, C1A,C1B,C2-C4,C21, C211-C213,C22,C25, C301,C302,C305,C31, C41-C43,C32,C551,C552, C5A,C5B,C6,C701,C702, C711,C804,C199,C44- C47	313371-01 313371-05 366648-01 366649-01	MODULATOR MDG VA3424 NTSC MODULATOR MDG UD 3626 PAL LABEL BAR CODE BLANK 0.5" X 1.75" LABEL BAR CODE BLANK 0.5" X 1.00"	X2 (X2)

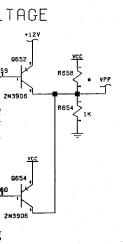
Schematic #315987, Rev. C Sheet 10 of 13

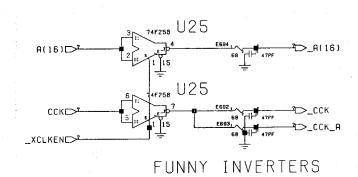


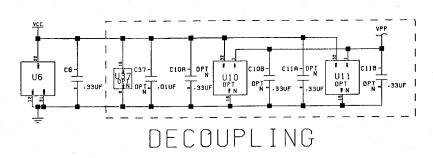
PROGRAMMING VOLTAGE



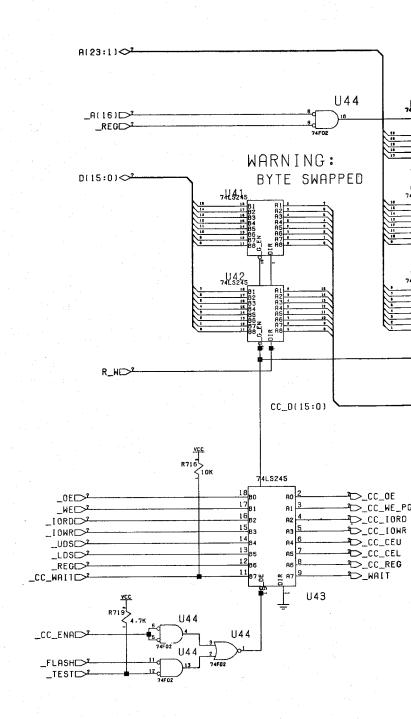


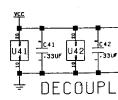


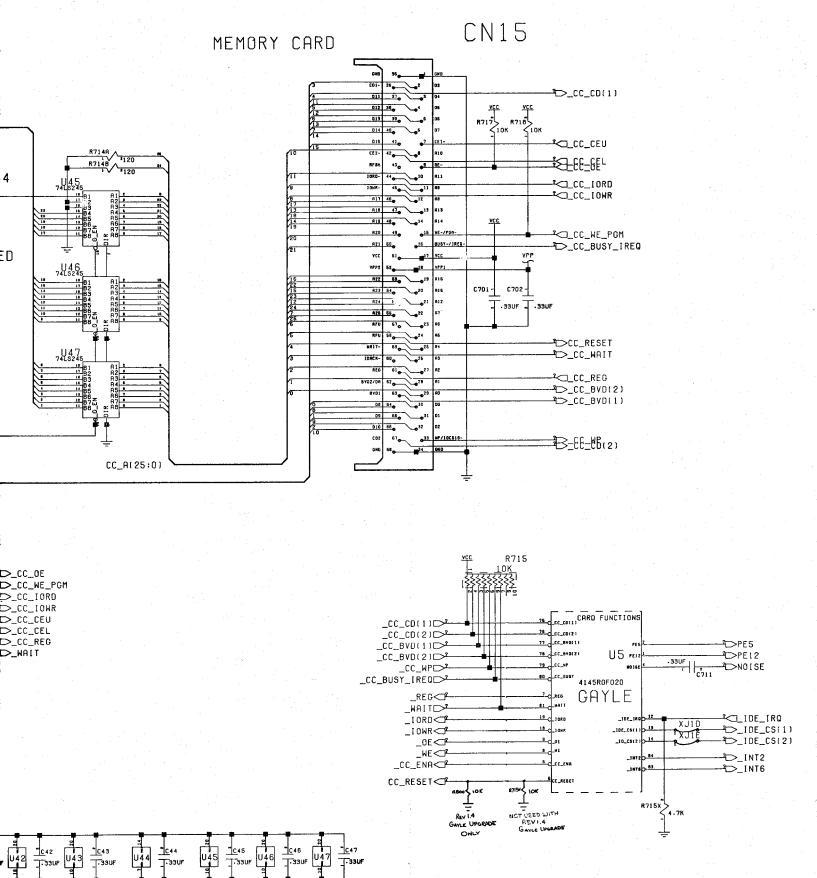




Schematic #315987, Rev. C Sheet 11 of 13

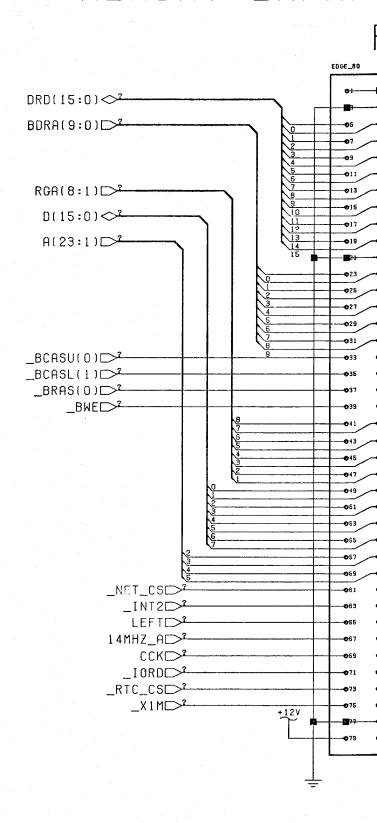






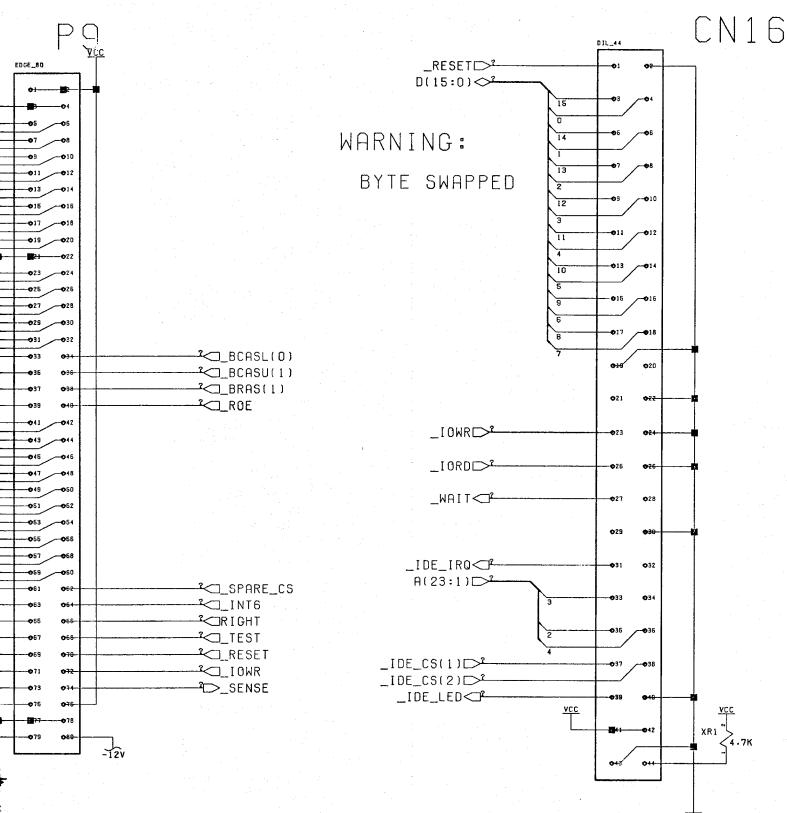
COUPLING

MEMORY EXPANS

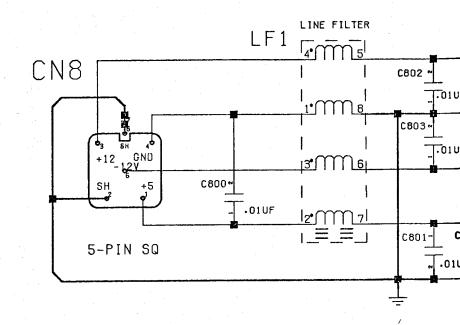


'ANSION

IDE DRIVE

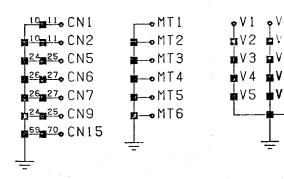


POWER INPU

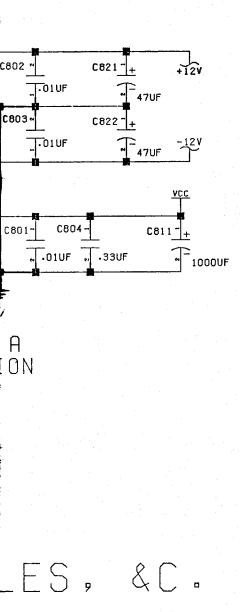


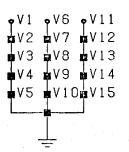
NOTE: HEAVY LINES INDICATE A SINGLE POINT CONNECTION

GROUNDED HOLES

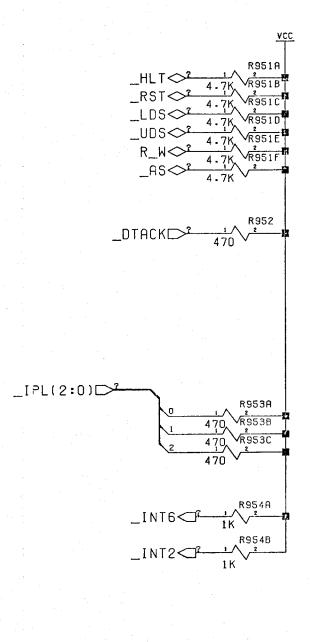


IPUT





"BUS" TERMINATION



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JUMPERS AND STUFF

REF	TYPE	DESCRIPTION	PAGE
R246 R202 R625 R624	SMT SMT SMT SMT	NTSC COLOR BURST PAL COLOR BURST KEYBOARD MPU CLOCK KEYBOARD/SYSTEM RESET	4 4 9 9
	1,		

SIGNAL GLOSSARY

SIGNAL	DESCRIPTION (AREA)	PAGES
	28.63636 MHZ MASTER CLOCK	
28MHZ		
7MHZ	7.15909 MHZ PROCESSOR CLOCK PROCESSOP ADDRESS BUS (68000)	
A[23:1]	DATA ACKIDINEDGE (PARALLEL PORT)	
<u> аск</u>	ADDRESS STROBE (68000)	
AS	AUDIO INPUT (RS232 PORT)	1
AUDOUT	AUDIO OUTPUT (RS232 JACK)	
BEER	BUS ERROR (68000)	
BG	BUS GRANT (68000)	
BGACK	BUS GRANT ACKNOWLEDGE (68000)	
BLISS	BLITTER SLOWDOWN (CHIPS)	
BLIT	CHIP MEMORY ACCESS (CHIPS)	
BR	BUS REQUEST (68000)	
BUSY	DEVICE BUSY (PARALLEL PORT)	
CASL/U	COLUMN ADDRESS STROBE (DRAM)	ļ
CCK/CCKQ	COLOR CLOCK / QUADRATURE (CHIPS)	
CDAC	7.15909 MHZ QUADRATURE CLOCK (CHIPS)	
CHNG	MEDIA CHANGE (FLOPPY) READ-TIME CLOCK READ / WRITE (RTC)	
CLKRD/WR	READ-TIME CLOCK READ / WRITE (RTC) MONOCHROME COMPOSITE VIDEO (VIDEO)	
COMP	COMPOSITE SYNC (VIDEO)	
CTS	CLEAR TO SEND (RS232 PORT)	
D[15:0]	PROCESSOR DATA BUS (68000)	
DIR	STEP DIRECTION (FLOPPY)	
DKRD	DISK READ DATA (FLOPPY)	
DKWD	DISK WRITE DATA (FLOPPY)	I
DKWE	DISK WRITE EMABLE (FLOPPY)	
DMAL	CHIP DMA REQUEST LINE (CHIPS)	
DRA[8:0]	DRAM ADDRESS BUS (DRAM)	
DRD[15:0]	DRAM DATA BUS (DRAM)	
DSR	DATA SET READY (R\$232 PORT)	
DTACK	DATA TRANSFER ACKNOWLEDGE (68000)	
DTR	DATA TERMINAL READY (RS232 PORT)	
E	PERIPHERAL ENABLE CLOCK (68000)	
EXTICK	EM MILES EN SERVICE	
FC[2:0] FIREO/1	FIRE BUTTON O/1 (JOYSTICKS)	
HLT	PROCESSOR HALT (68000)	
HSYNC	HORIZONTAL SYNC (VIDEO)	
INDEX	INDEX PULSE (FLOPPY)	
INT[2,3,6]	INTERRUPT REQUEST (CHIPS)	
IORESET	1/0 RESET	
IPL[2:0]	INTERRUPT PRIORITY LEVEL (68000)	
KBCLOCK	KEYBOARD CLOCK (KEYBOARD)	
KBDATA	KEYBOARD DATA (KEYBOARD)	<u> </u>
KBRESET	KEYBOARD RESET (KEYBOARD)	ļ
LDS/UDS	UPPER / LOWER DATA STROBES (68000)	
LED	POWER ON LED / AUDIO FILTER DISABLE	
LEFT/RIGHT	LEFT RIGHT AUDIO (AUDIO)	
		

CONNECTORS

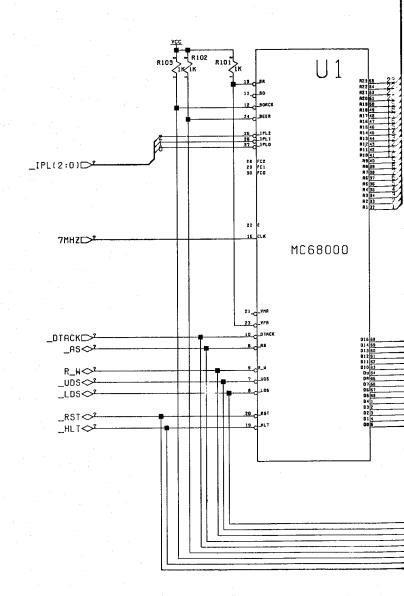
REF	TYPE	DESCRIPTION	PAGE
CN1	DB9P	MOUSE/JOYSTICK I	5
CN2 CN3	DB9P RCA-J	MOUSE/JOYSTICK 2 RIGHT AUDIO OUTPUT	<u>5</u> —
CN4 CN5	RCA-J DB23S	LEFT AUDIO OUTPUT	5 8
CN6	DB25P	RS232 SERIAL PORT	7
CN7 CN8	DB25S ISQ DIN	PARALLEL PRINTER PORT POWER SUPPLY CONNECTOR	13
CN9 CN10	DB23P RCA-J	VIDEO OUTPUT COMPOSITE VIDEO	4
CN11	DIL-34	INTERNAL FLOPPY SIGNAL	8
CN12 CN13	SIL-4 MEM-30	KEYBOARD MEMBRANE	9
CN14	SIL-4 MEM-30	INTERNAL FLOPPY POWER KEYBOARD MEMBRANE	8
CN14	SIL-4	KEYBOARD STATUS LED'S PC "MEMORY CARD"	9
CN15	PCMCIA		
P9	EDGE-80	MEMORY BUS EXPANSION	12

İSIGNAL	DESCRIPTION (AREA)	PAGES
OXOTTILE.		
LPEN	LIGHT PEN TRIGGER (JOYSTICKS)	
MTR	MOTOR ON (FLOPPY)	
MTRO	MOTOR ON - DRIVE O (FLOPP)	
MOV/MOH	MOUSE O QUADRATURE V/H (JC . CKS)	
M1V/M1H	MOUSE 1 QUADRATURE V/H (JOYSTICKS)	
OVL	OVERLAY ROM OVER RAM	
OVR	OVERRIDE SYSTEM DECODING	
PIXELSW	GENLOCK PIXEL SWITCH EO)	+
POTOX/OY	POT LINES 0 X/Y (JOYS - 5)	
POTIX/1Y	POT LINES ! X/Y (JOYS S)	+
POUT	PAPER OUT (PARALLEL PO-	
PPD[7:0]	THAT STATE OF THE	
RAMEN	RAM ENABLE (CHIPS)	+
REGEN		
RASO/1		
RDY RESET	DRIVE READY (FLOPPY) GENERAL RESET	
RGA[8:1]	REGISTER ADDRESS BUS (CHIPS)	
R/G/B	RED / GREEN / BLUE (VIDEO)	
RI	RING INDICATE (RS232 PORT)	
ROMEN	ROM ENORIE (ROM)	
RIS	REQUEST TO SEND (R\$232 PORT)	
RST	PROCESSOR RESET (68000)	
RXD	RECEIVE DATA (RS232 PORT)	
RW	PROCESSOR READ/WRITE (68000)	
SEL	SELECT (PARALLEL PORT)	
SEL[3:0]	DRIVE SELECT (FLOPPY)	
SIDE	SIDE SELECT (FLOPPY)	
STEP	STEP IN/OUT COMMAND (FLOPPY)	
TRKO	TRACK ZERO SENSE (FLOPPY)	
TXD	TRANSMIT DATA (RS232 PORT)	
VMA	VALID MEMORY ADDRESS (68000)	
VPA	VALID PERIPHERAL ADDRESS (68000)	
VSYNC	VERTICAL SYNC (VIDEO) WRITE ENABLE (DRAM)	
WE	WRITE PROTECT SENSE FLOPE	
WPROT	EXTERNAL GENLOCK C. (1. 3)	
XCLK XCLKEN	EXTERNAL CLOCK ENABLE (VIDES)	<u> </u>
XRDY	EXTERNAL DATA READY	
VIVDI	CATERIAL DITTI ACTOR	
		
	** CREDIT CARD AND IDE STUFF? **	
		
	<u> </u>	

KEY COMPONENTS

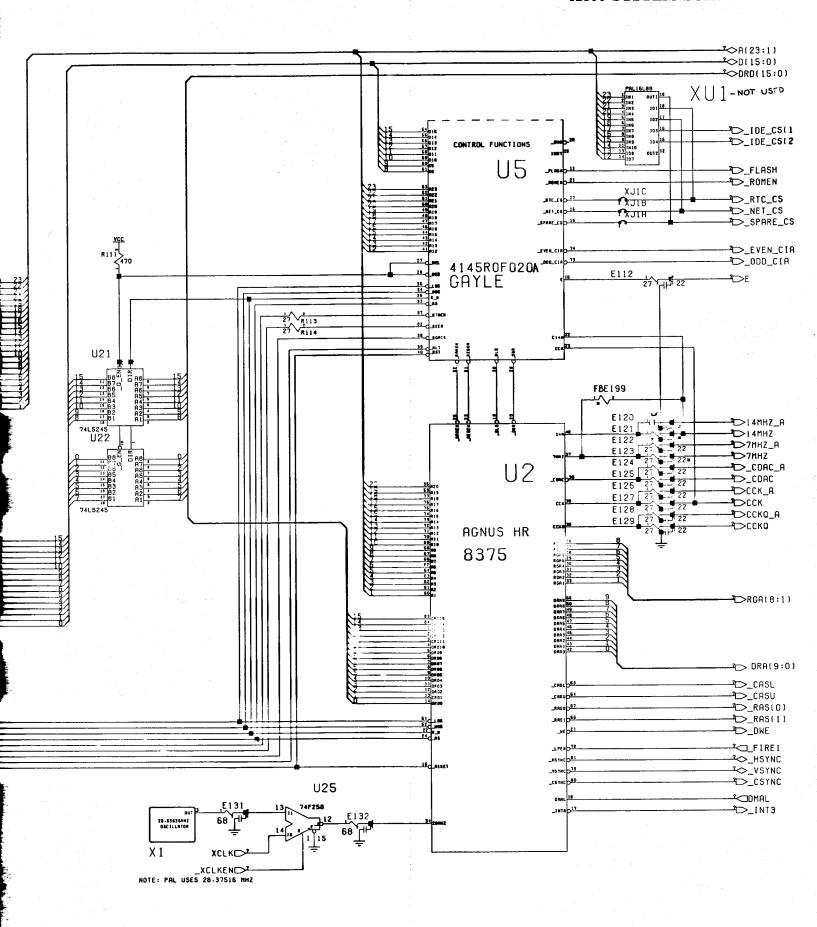
U1	R: :	CHIP	DESCRIPTION	PAGE
U4				
U4	U1	68000		2
U4		8375	ECS AGNUS A300/A500+	2
U4	U3		PAULA	5
U5	U4		ECS DENISE	4
U6				
US	US	4145-20		
U10-11 28F10	U6			10
U12	U7-8	8520		
U12	U10-11	28F10		
U14 NESSS RESET TIMER 9	U12	CXA1145		
U16-17 ASST DRAM 256KX16. 120 NS 3	U13_		AMGIA KEYBOARD MPU	9
UIS	U14	NE555_	RESET TIMER	9
UIS				
TL084 BIMOS UP-AMP	U16-17	ASST	DRAM 256KX16, 120 NS	3
TL084 BIMOS UP-AMP	T			
U28	U15			5
U29				ALT_
XI	U28			
Y451 XTAL 4.43619MHZ PAL BURST 4 Y621 XTAL 3MHZ CERAMIC RESONATOR9 X2 ASST PAL VIDEO MODULATOR 4		1489	EIA LINE RECEIVER	7
Y451 XTAL 4.43619MHZ PAL BURST 4 Y621 XTAL 3MHZ CERAMIC RESONATOR9 X2 ASST PAL VIDEO MODULATOR 4	E			
Y451 XTAL 4.43619MHZ PAL BURST 4 Y621 XTAL 3MHZ CERAMIC RESONATOR9 X2 ASST PAL VIDEO MODULATOR 4	X1			2
Y621 XTAL 3MHZ CERAMIC RESONATOR9 X2 ASST PAL VIDEO MODULATOR 4			TTL 28.37512 MHZ PAL	
X2 ASST PAL VIDEO MODULATOR 4	Y451			
INC TIDES HOUSE	Y621	XTAL	3MHZ CERAMIC RESONATOR	19
INC TIDES HOUSE		<u> L</u>		<u> </u>
ASST INTSC VIDEO MODULATOR 4	X2			
		ASST	NTSC VIDEO MODULATOR	4
	1			
				<u></u>

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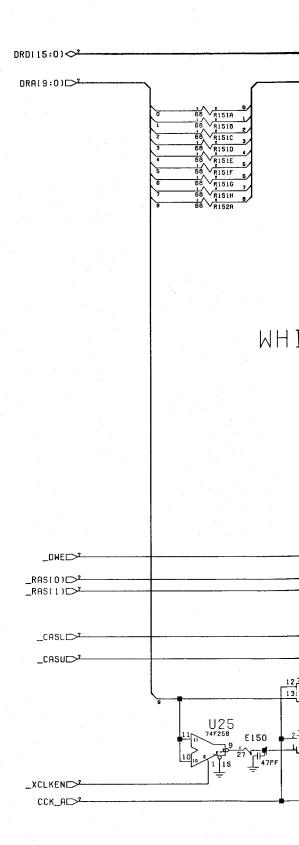


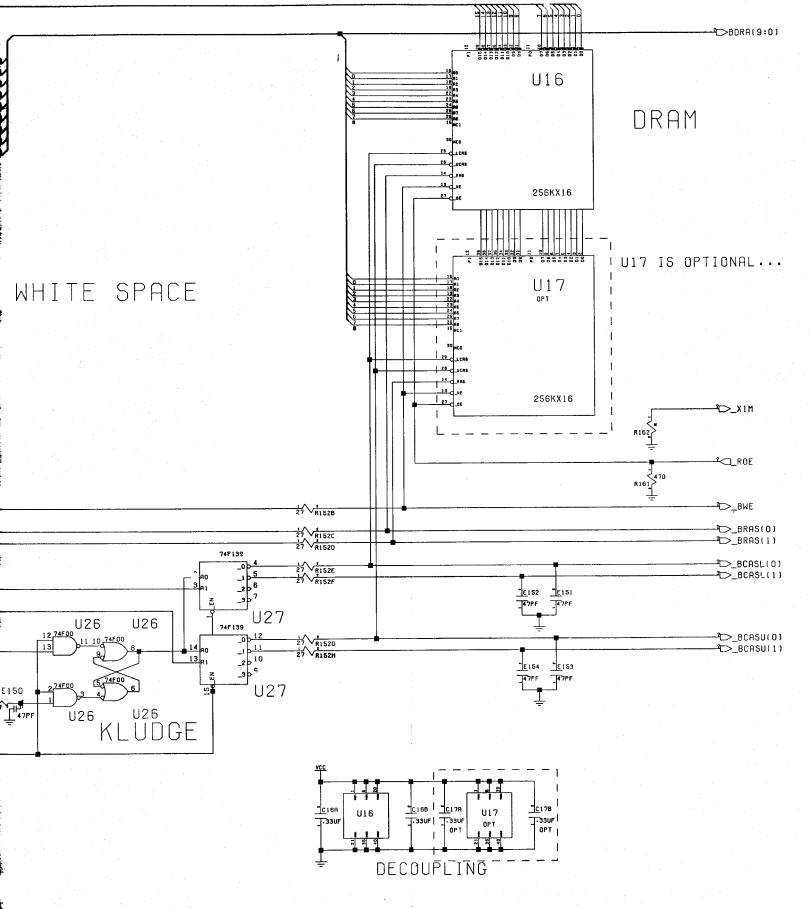
JUNE BUG 10/22/91



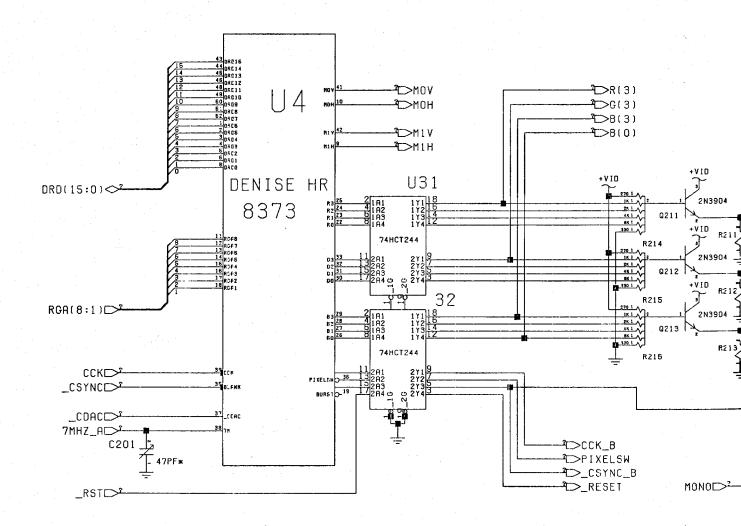


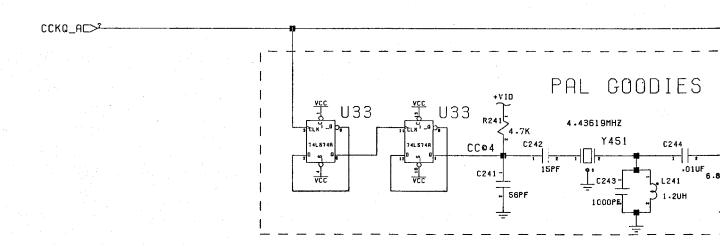
Schematic #315987, Rev. C Sheet 3 of 13

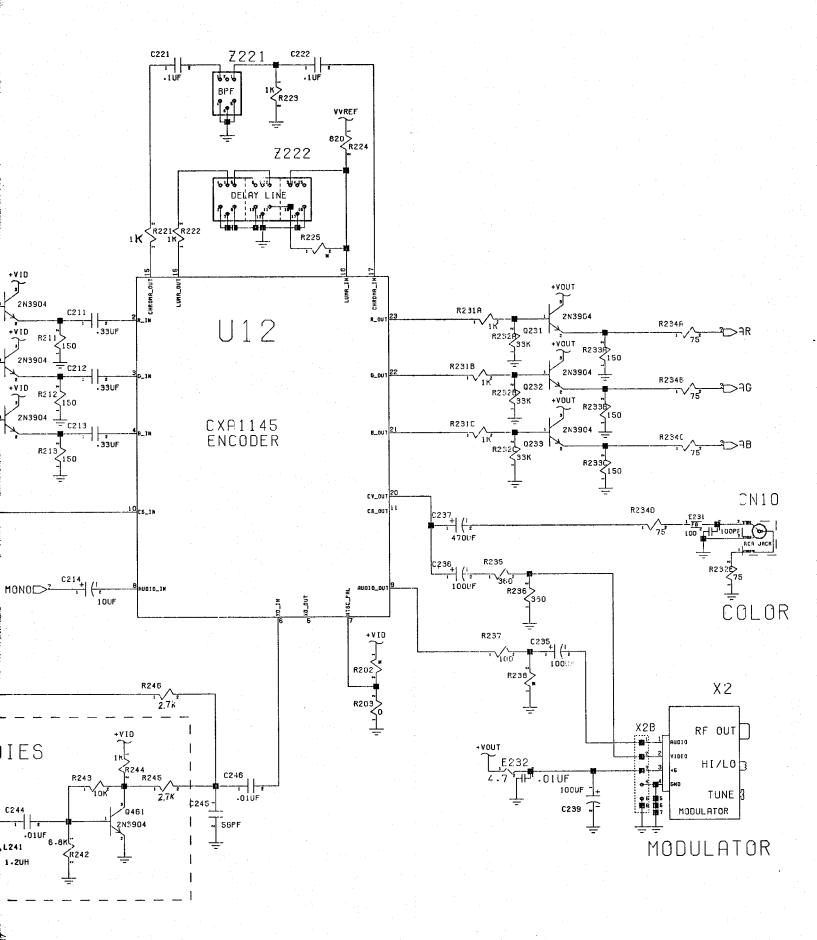


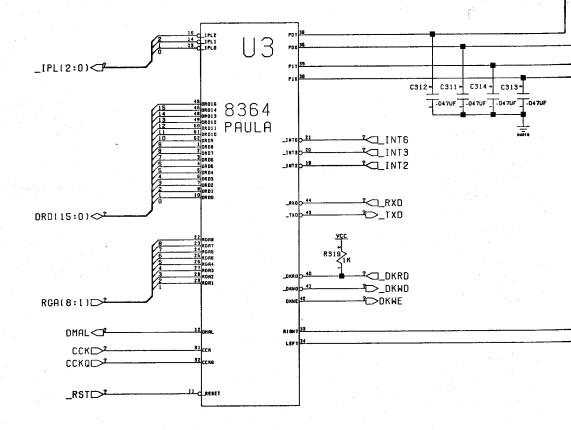


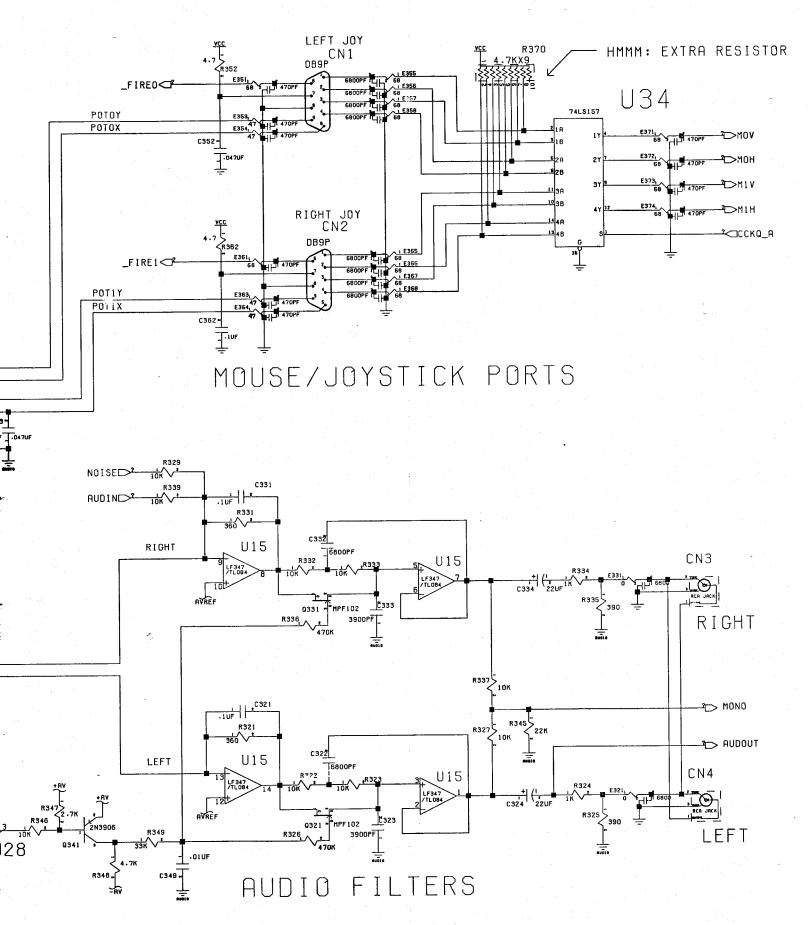
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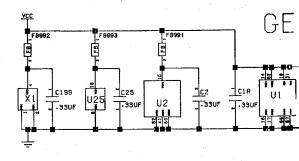


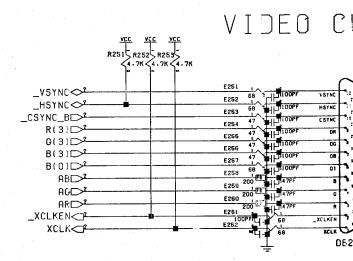




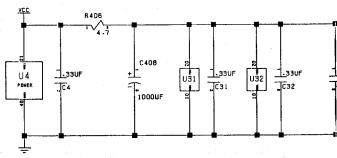


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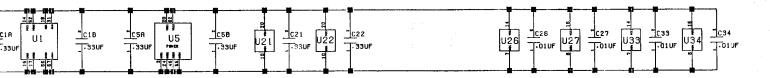




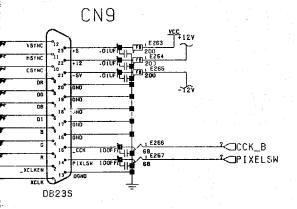
VIDEO POWER

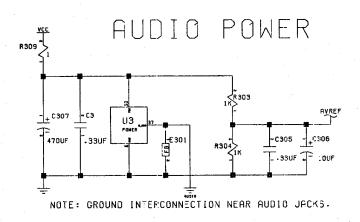


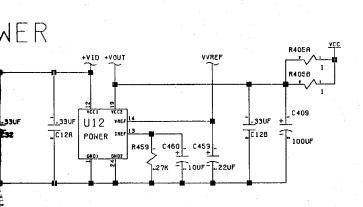
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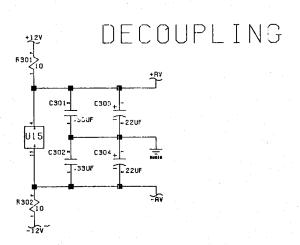


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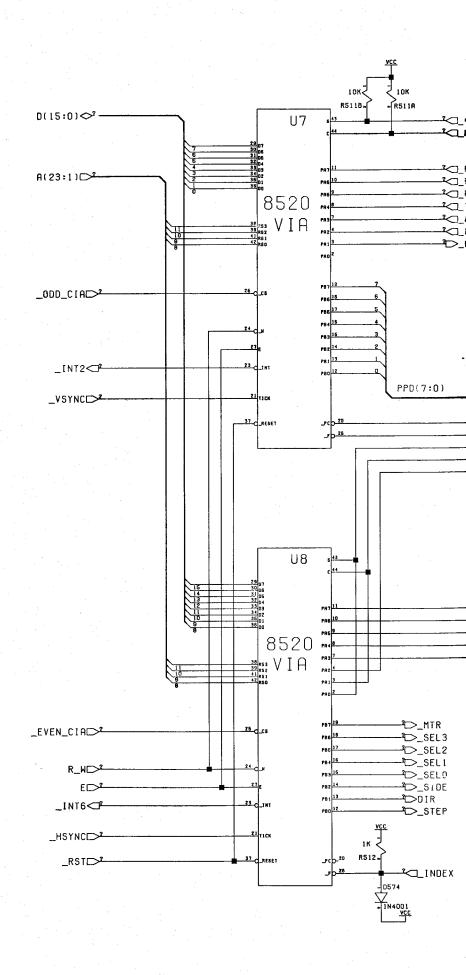


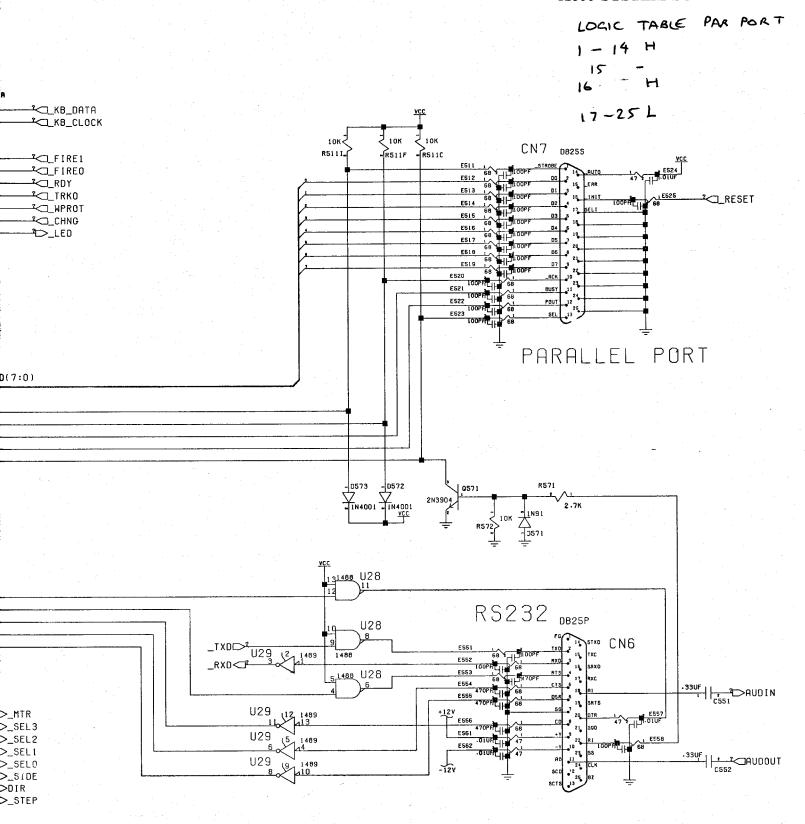






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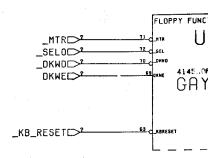




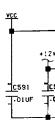
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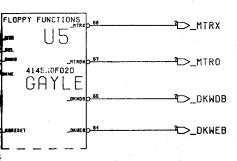
FLOPPY L

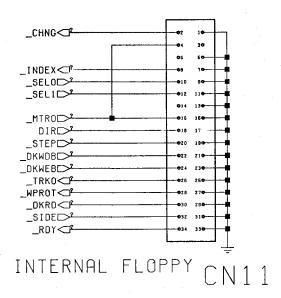


FLC

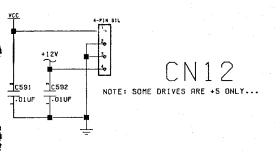


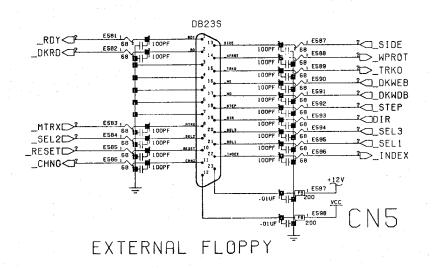
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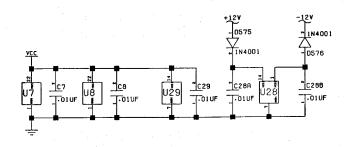




FLOPPY POWER







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