

Revision History

Jumpers and Stuff

RFF	TYPF	DESCRIPTION	PAGE
JP1	BLOB	Keyboard Reset	7
JP2	BLOB	C0 vs. 08 Address Map	2
JP3	BLOB	Expansion RAS Select	3
JP4	BLOB	Bypass 2M-Byte Decoder	3
JP7	BLOB	Expansion/Tick Option	6
JP8	BLOB	Light Pen Port Select	6
JP9	BLOB	On-Board RTC Bypass	8
JP10	BLOB	RS232 Audio I/O Cutout	5
JP11	BLOB	TTL vs RS170 Comp Sync	4

Connectors

RFF	TYPE	DESCRIPTION	PAGE
CN1	DB9P	Mouse/Joystick 1	2
CN2	DB9P	Mouse/Joystick 2	2
CN3	RCA-J	Right Audio Output	4
CN4	RCA-J	Left Audio Output	4
CN5	D0235	External Floppy	7
CN6	DB25P	RS232 Serial Port	6
CN7	DB25S	Parallel Printer Port	6
CN8	SQ-DIN	Power Supply Connector	8
CN9	DB23P	Video Output	5
CN10	RCA-J	Composite Video	5
CN11	DIL-34	Internal Floppy Signal	7
CN12	SIL-4	Internal Floppy Power	8
CN13	SIL-8	Keyboard Connector	6
P1	EDGE86	Expansion Connector	7
P9	RA-56H	Mem. Exp. Main-Board	8

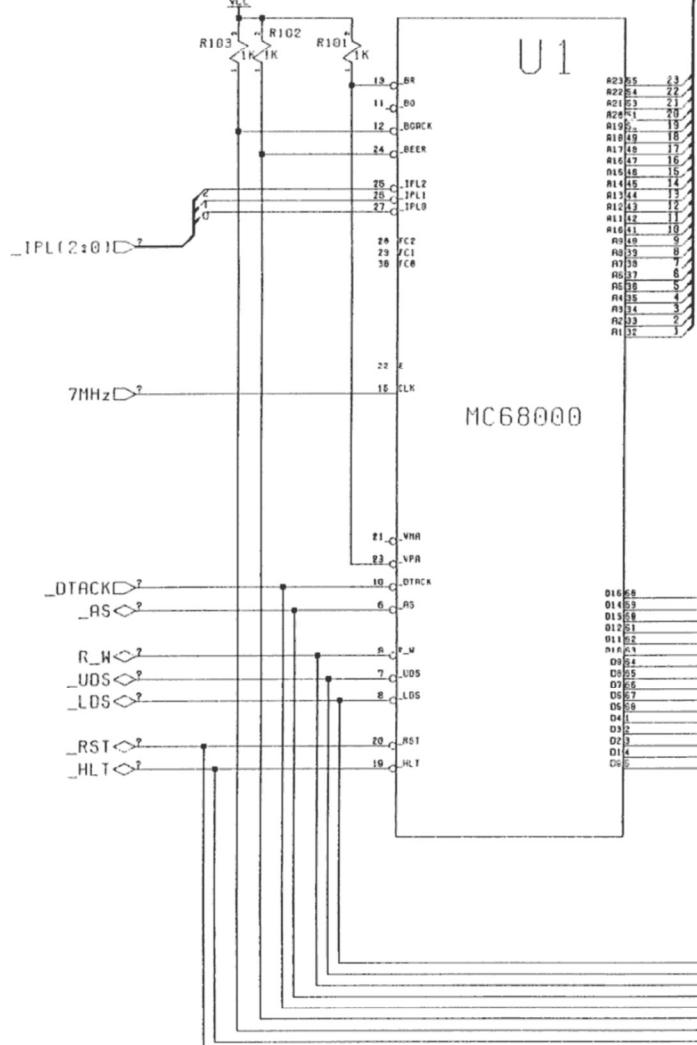
Signal Glossary

SIGNAL	DESCRIPTION (AREA)	PAGES
28MHz	28.63636 MHz Master Clock	2
7MHz	7.15909 MHz Processor Clock	2,5
AI23:11	Processor Address Bus (68000)	2,3,7
ACK	Data Acknowledge (Parallel Port)	6
AS	Address Strobe (68000)	2,7
AUDIN	Audio Input (RS232 Port)	4,6
AUDOUT	Audio Output (RS232 Jack)	4,6
BEER	Bus Error (68000)	2,7
BG	Bus Grant (68000)	2,7
BGACK	Bus Grant Acknowledge (68000)	2,7
BLISS	Blitter SLOWDOWN (Chips)	2
BLIT	Chip Memory Access (Chips)	2,7
BR	Bus Request (68000)	2,7
BUSY	Device Busy (Parallel Port)	6
CASL/U	Column Address Strobe (DRAM)	2,3
CCK/CCKQ	Color Clock / Quadrature (Chips)	2,4,7
CDAC	7.15909 MHz Quadrature Clock (Chips)	2,5,7
CHNG	Media Change (Floppy)	6,7
CLKRD/WR	Read-Time Clock Read / Write (RTC)	2,9
COMP	Monochrome Composite Video (Video)	5
CSYNC	Composite Sync (Video)	2,5
CIS	Clear to Send (RS232 Port)	6
D115:01	Processor Data Bus (68000)	2,3,6,7
DIR	Step Direction (Floppy)	6,7
DKRD	Disk Read Data (Floppy)	4,7
DKWD	Disk Write Data (Floppy)	4,7
DKWE	Disk Write Enable (Floppy)	4,7
DMAL	Chip DMA Request Line (Chips)	2,4
DRAM8:01	DRAM Address Bus (DRAM)	2,3
DRD115:01	DRAM Data Bus (DRAM)	2,3,4,5
DSR	Data Set Ready (RS232 Port)	6
DTACK	Data Transfer Acknowledge (68000)	2,3,7
DTR	Data Terminal Ready (RS232 Port)	6
E	Peripheral Enable Clock (68000)	2,6,7
EXTICK	Expansion Present / RTC Tick	2,3
FC1?01	Function Code (68000)	2,7
FIRE0/1	Fire Button 0/1 (Joysticks)	2,5,6
HLT	Processor Hold (68000)	2,7
HSYNC	Horizontal Sync (Video)	2,5,6
INDEX	Index Pulse (Floppy)	6,7
INT1[2,3,6]	Interrupt Request (Chips)	2,4,6,7
IORESET	I/O Reset	6,7
IPL12:01	Interrupt Priority Level (68000)	2,4,7
KBCLOCK	Keyboard Clock (Keyboard)	6
KBDATA	Keyboard Data (Keyboard)	6
KBRESET	Keyboard Reset (Keyboard)	6
LDS/LDS	Upper / Lower Data Strobes (68000)	2,7
LED	Power On LED / Audio Filter Disable	4,6
LEFT/RIGHT	Left Right Audio (Audio)	4

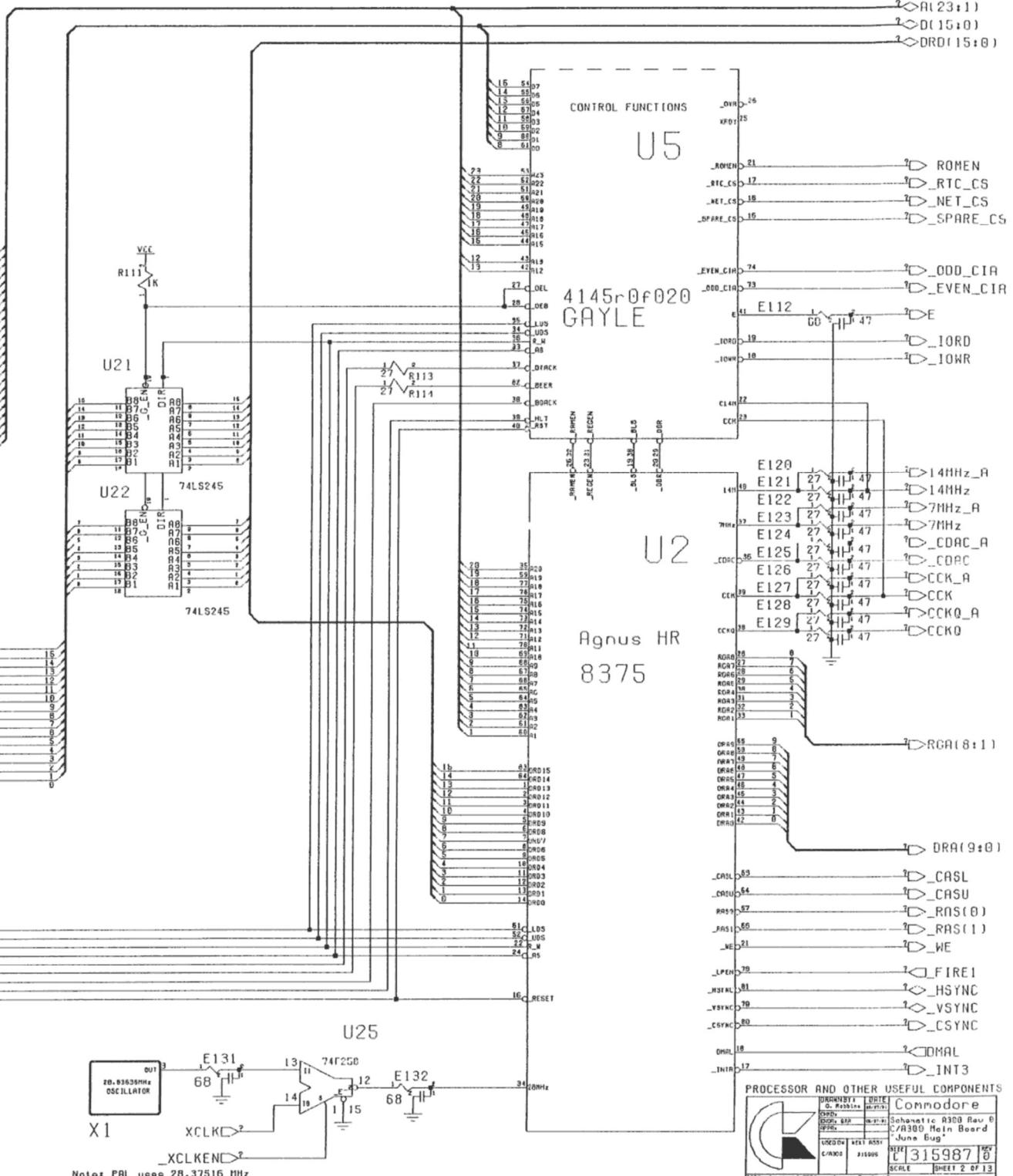
SIGNAL	DESCRIPTION (AREA)	PAGES
LPEN	Light Pen Trigger (Joysticks)	2,6
MTR	Motor On (Floppy)	4,6
MTRD	Motor On - Drive 0 (Floppy)	4,6,7
MOV/MOH	Mouse 0 Quadrature V/H (Joysticks)	5
MIV/MIH	Mouse 1 Quadrature V/H (Joysticks)	5
OVL	Overlay ROM over RAM	2,6
OVR	Override System Decoding	2,7
PIXELSW	Genlock Pixel Switch (Video)	5
POTOX/Y	Pot Lines 0 X/Y (Joysticks)	4,5
POTIX/Y	Pot Lines 1 X/Y (Joysticks)	4,5
POUT	Paper Out (Parallel Port)	6
PPD[7:0]	Parallel Port Data (Parallel Port)	6
RAMEN	RAM Enable (Chips)	2
REGEN	Chip Register Enable (Chips)	2
RAS0/1	Row Address Strobe (DRAM)	2,3
RDY	Drive Ready (Floppy)	6,7
RESET	General Reset	6,7
RCA[8:1]	Register Address Bus (Chips)	2,4,5
R/G/B	Red / Green / Blue (Video)	5
RI	Ring Indicate (RS232 Port)	6
ROMEN	ROM Enable (ROM)	2,3
RTS	Request To Send (RS232 Port)	6
RST	Processor Reset (68000)	2,4,7
RxD	Receive Data (RS232 Port)	4,6
RW	Processor Read/Write (68000)	2,6,7
SEL	Select (Parallel Port)	6
SEL[3:0]	Drive Select (Floppy)	4,6,7
SIDE	Side Select (Floppy)	6,7
STFP	Step In/Out Command (Floppy)	6,7
TRK0	Track Zero Sense (Floppy)	6,7
TXD	Transmit Data (RS232 Port)	4,6
VMA	Valid Memory Address (68000)	2,6,7
VPA	Valid Peripheral Address (68000)	2,7
VSYNC	Vertical Sync (Video)	2,5,6
WE	Write Enable (DRAM)	2,3
WPROT	Write Protect Sense (Floppy)	6,7
XCLK	External Genlock Clock (Video)	2,5
XCLKEN	External Clock Enable (Video)	2,5
XRDY	External Data Ready	2,5

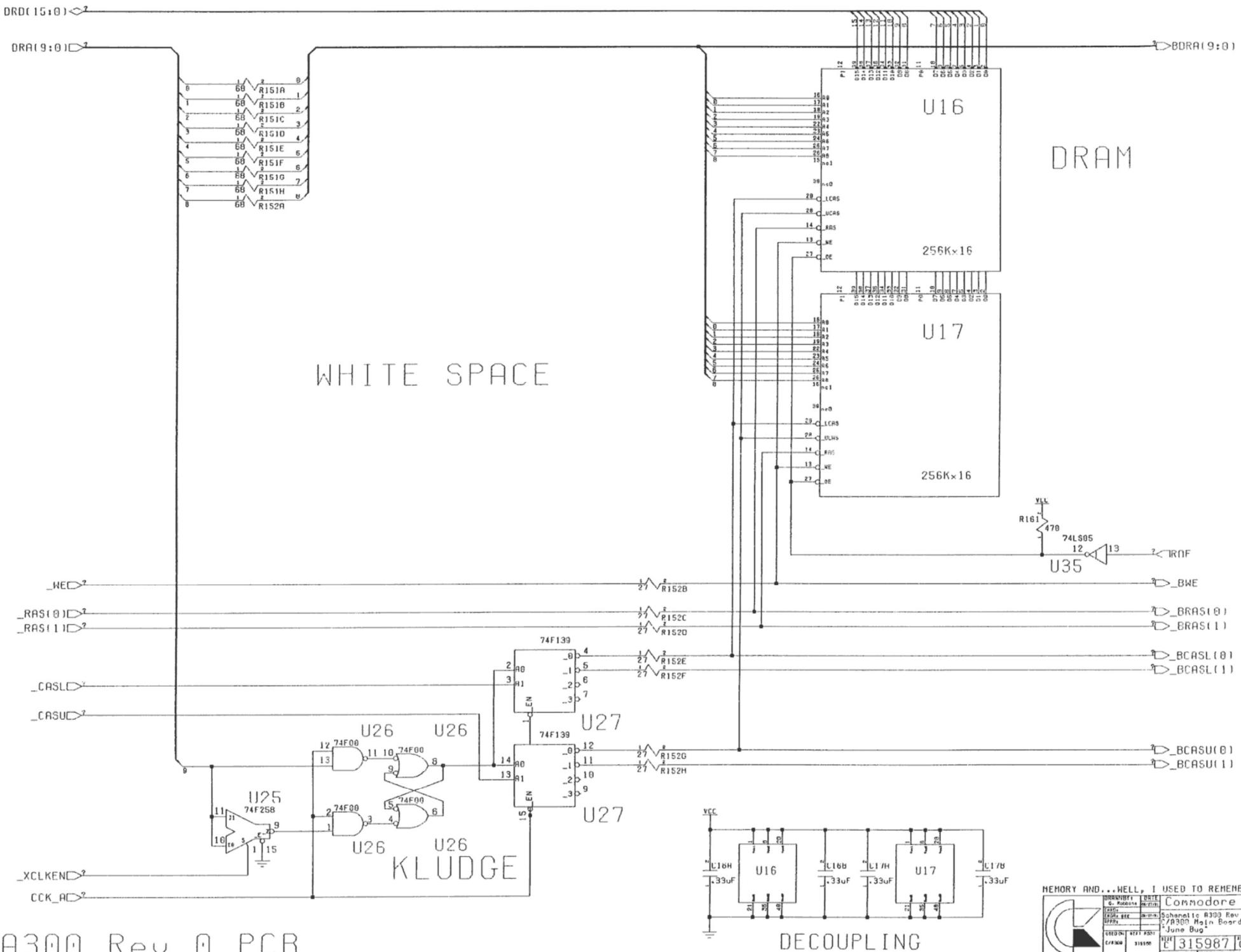
Key Components

Note: Various components are for EMI Control
and may be loaded with funny things...

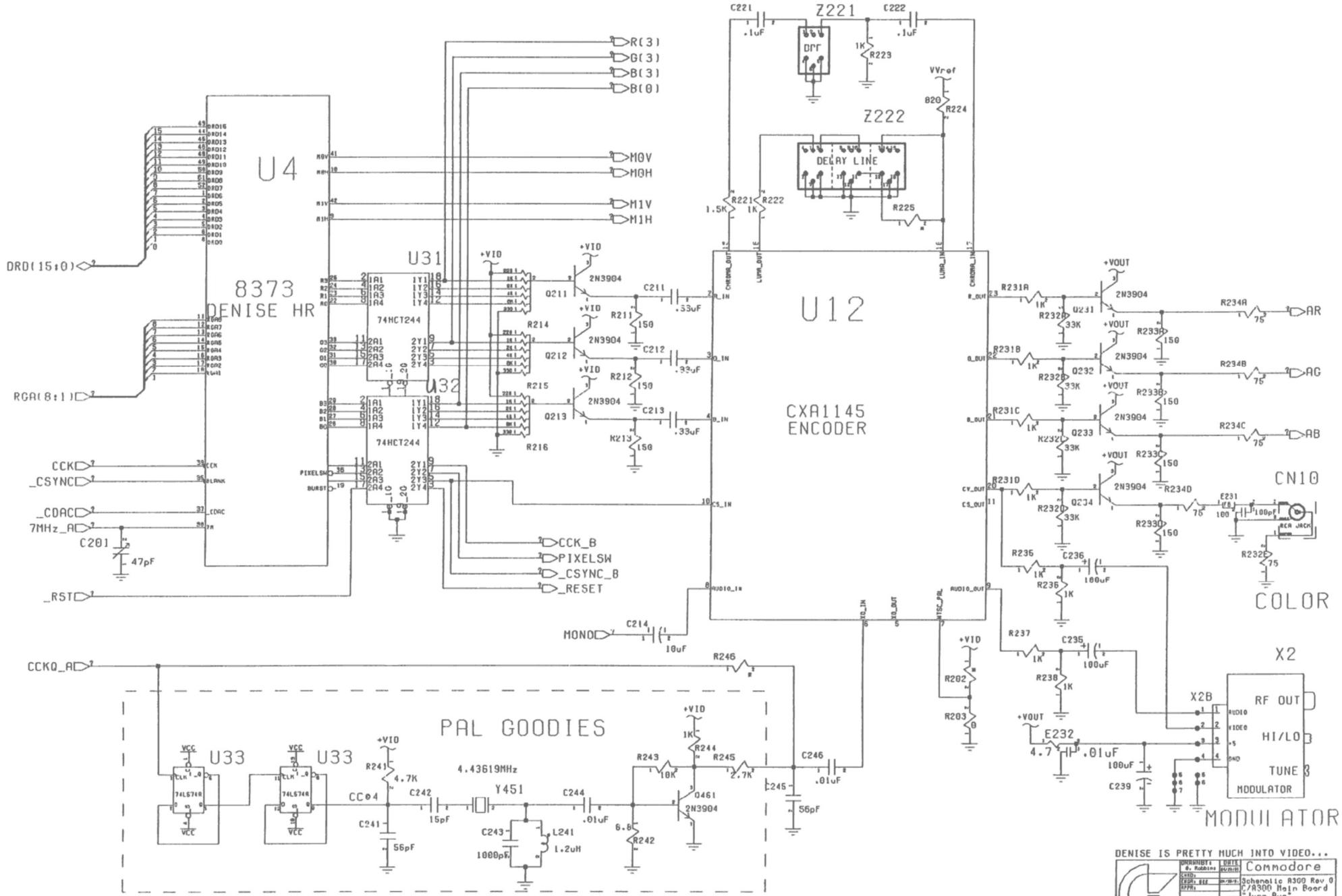


June Bug
05/27/91
A300 Rev 0 PCB



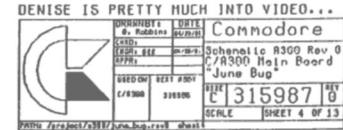


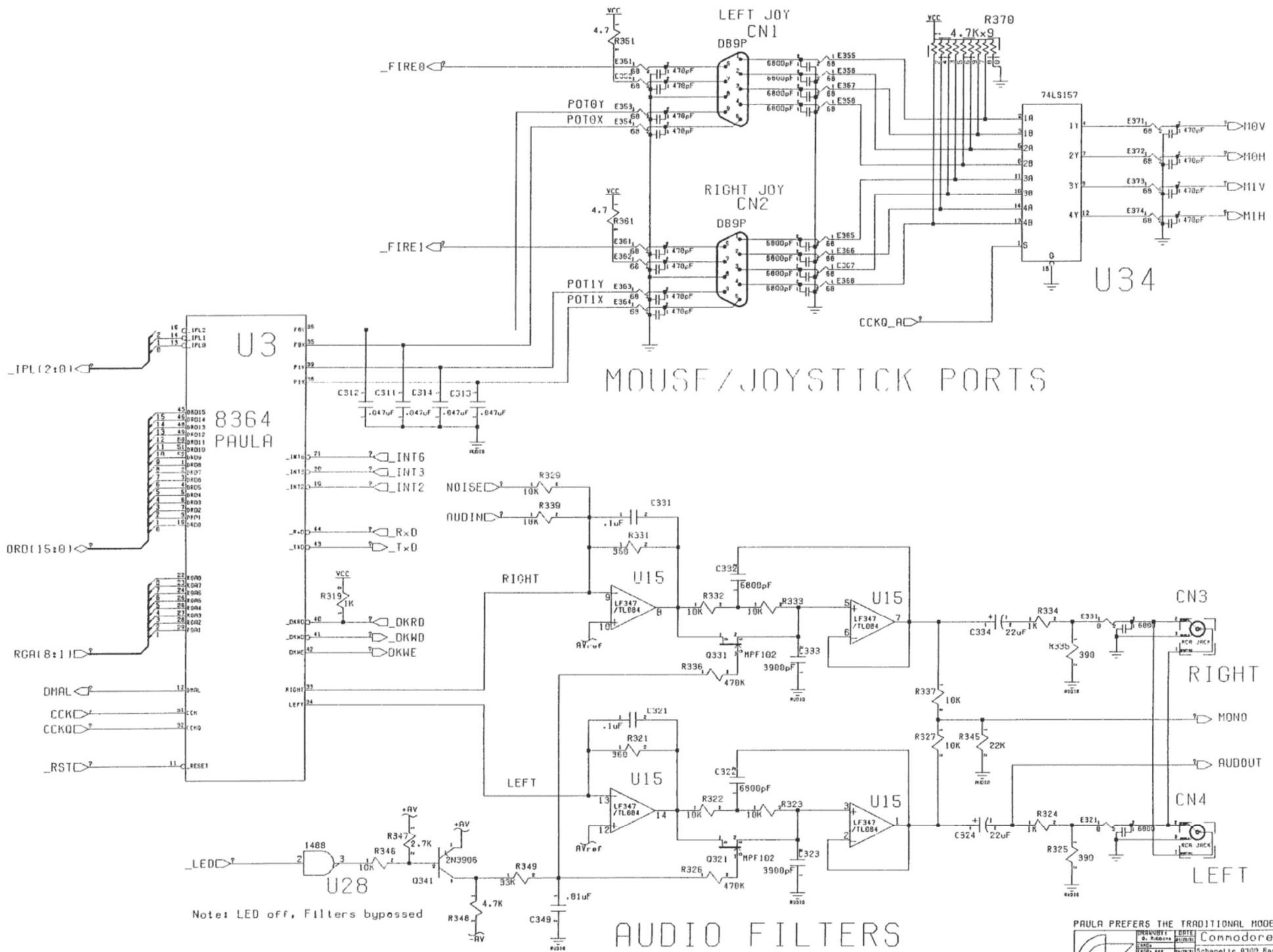
A300 Rev 0 PCB



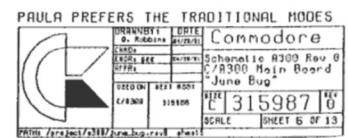
A300 Rev 0 PCB

Note: Components designated as Exxx may be loaded with EMI filters, ferrite beads or resistors.

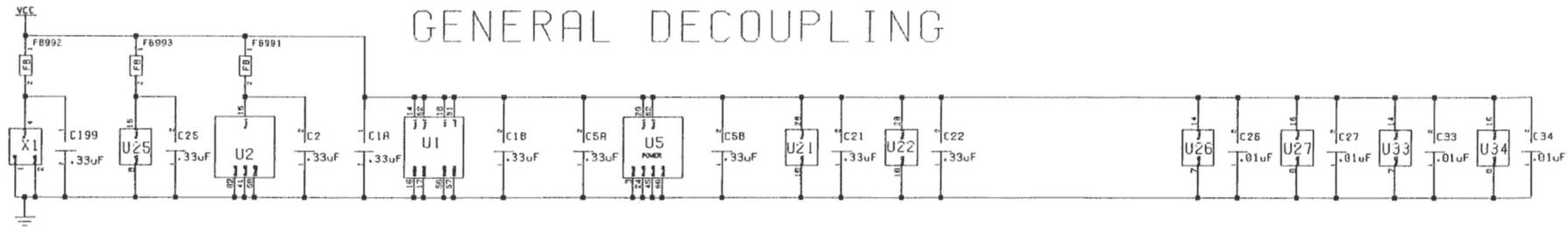




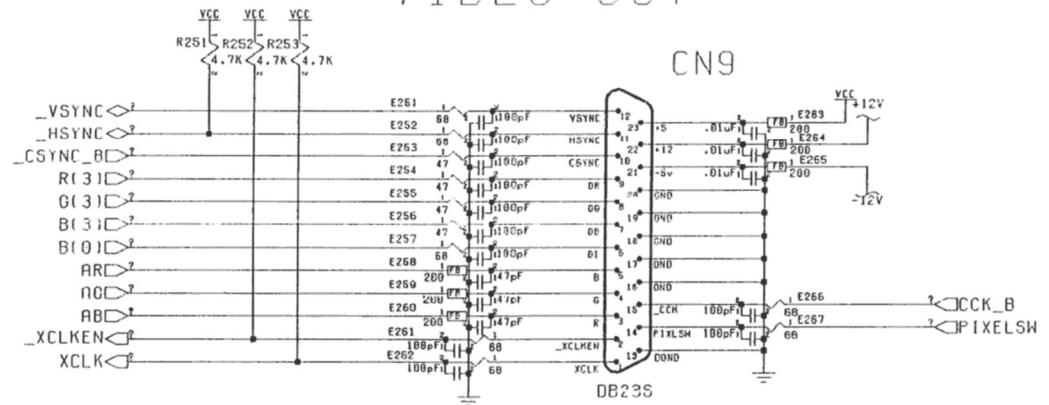
A300 Rev 0 PCB



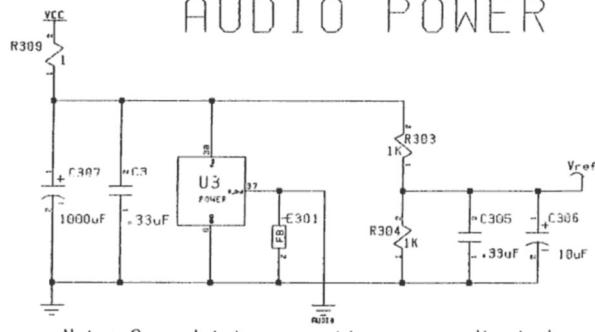
GENERAL DECOUPLING



VIDEO OUT

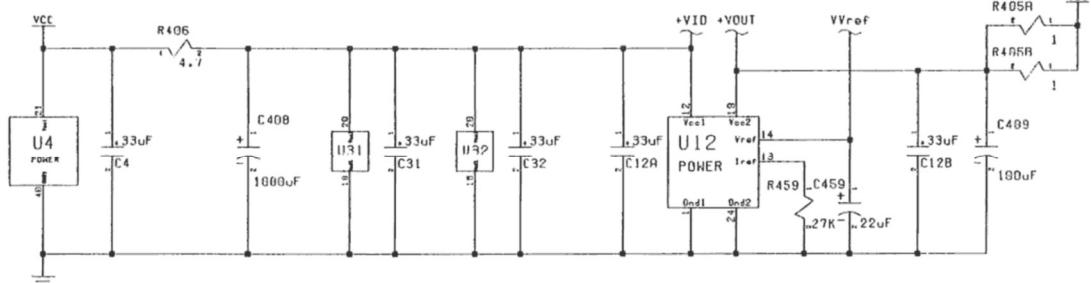


AUDIO POWER

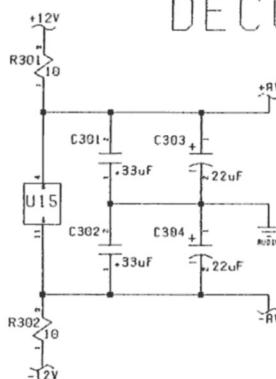


Note: Ground Interconnection near audio jacks.

VIDEO POWER

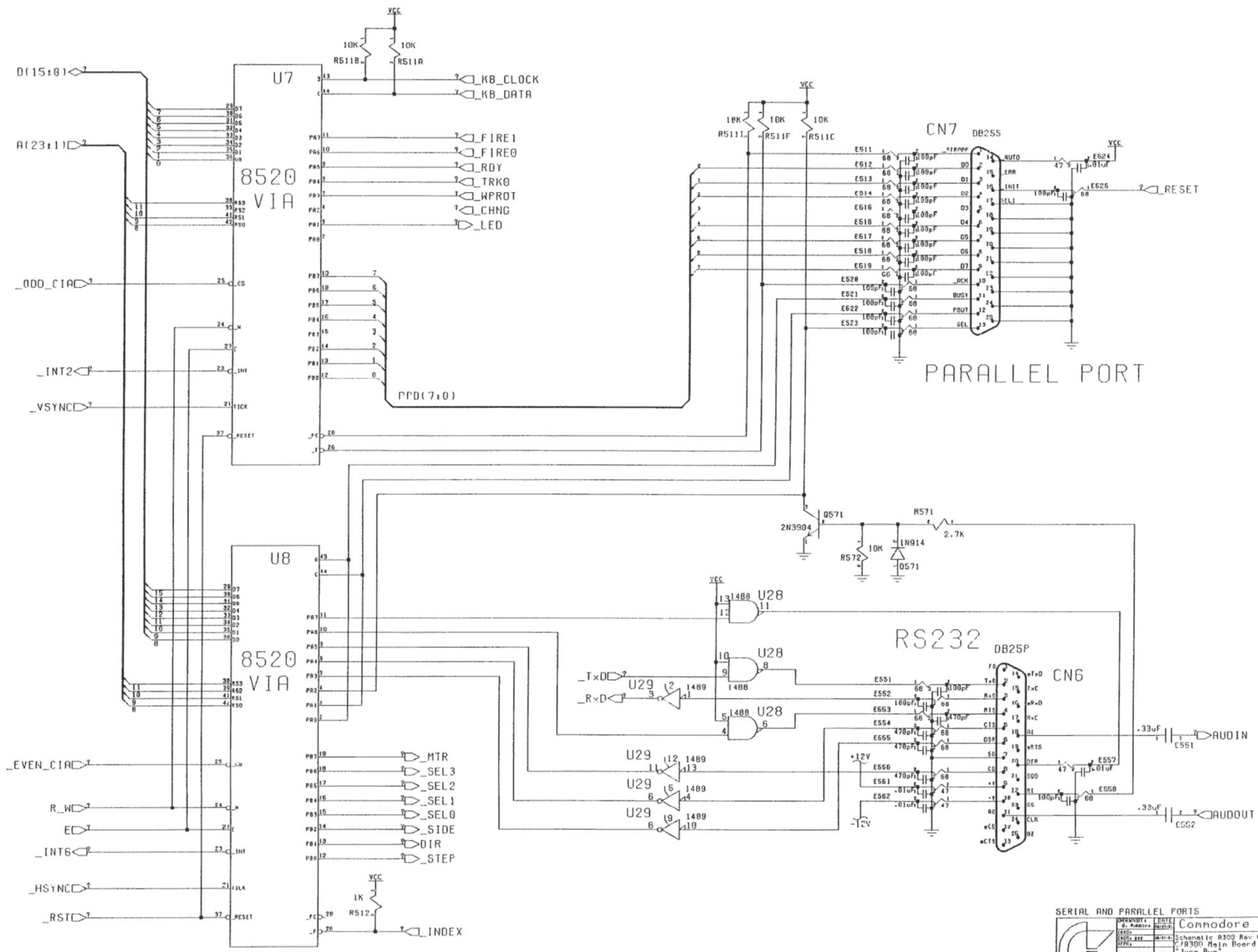


DECOUPLING



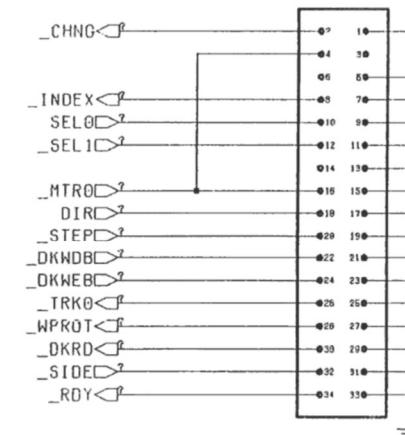
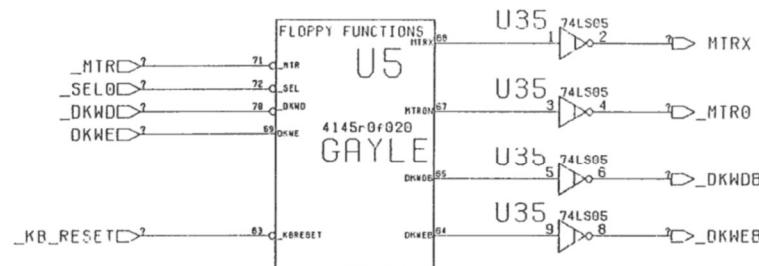
PARTY OUT OF BOUNDS, WHAT A MESS...	
ROUTINE# C-1000000000000000	DATE Commodore
END# EXTRA REC 0000000000000000	Schematic A309 Rev 0 2/1930 Main Board
WORK# C1000000000000000	June bug
PRINTS FOR CIRCUIT BOARD	

A300 Rev 0 PCB



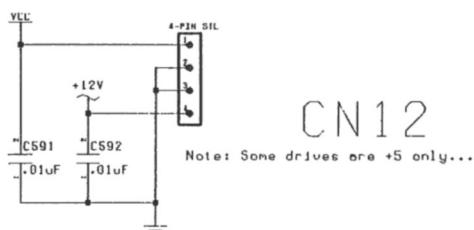
A300 Rev 0 PCB

FLOPPY LOGIC

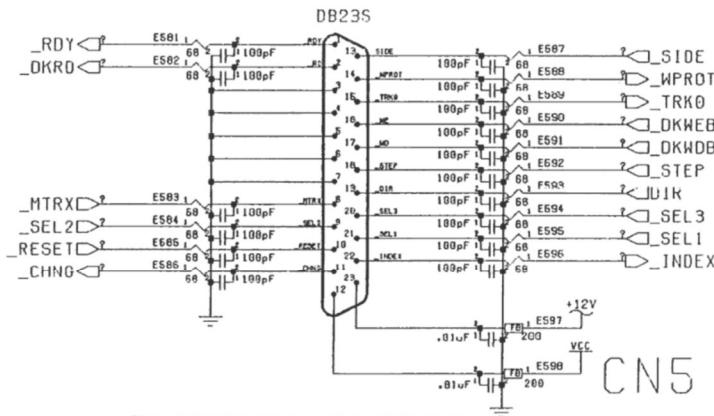


INTERNAL FLOPPY CN11

FLOPPY POWER

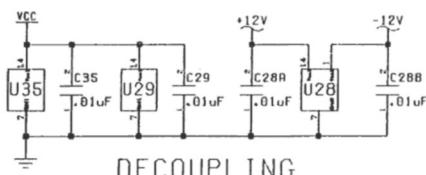


CN12



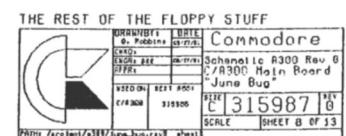
CN5

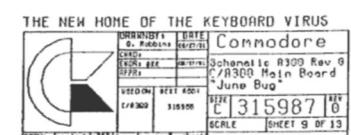
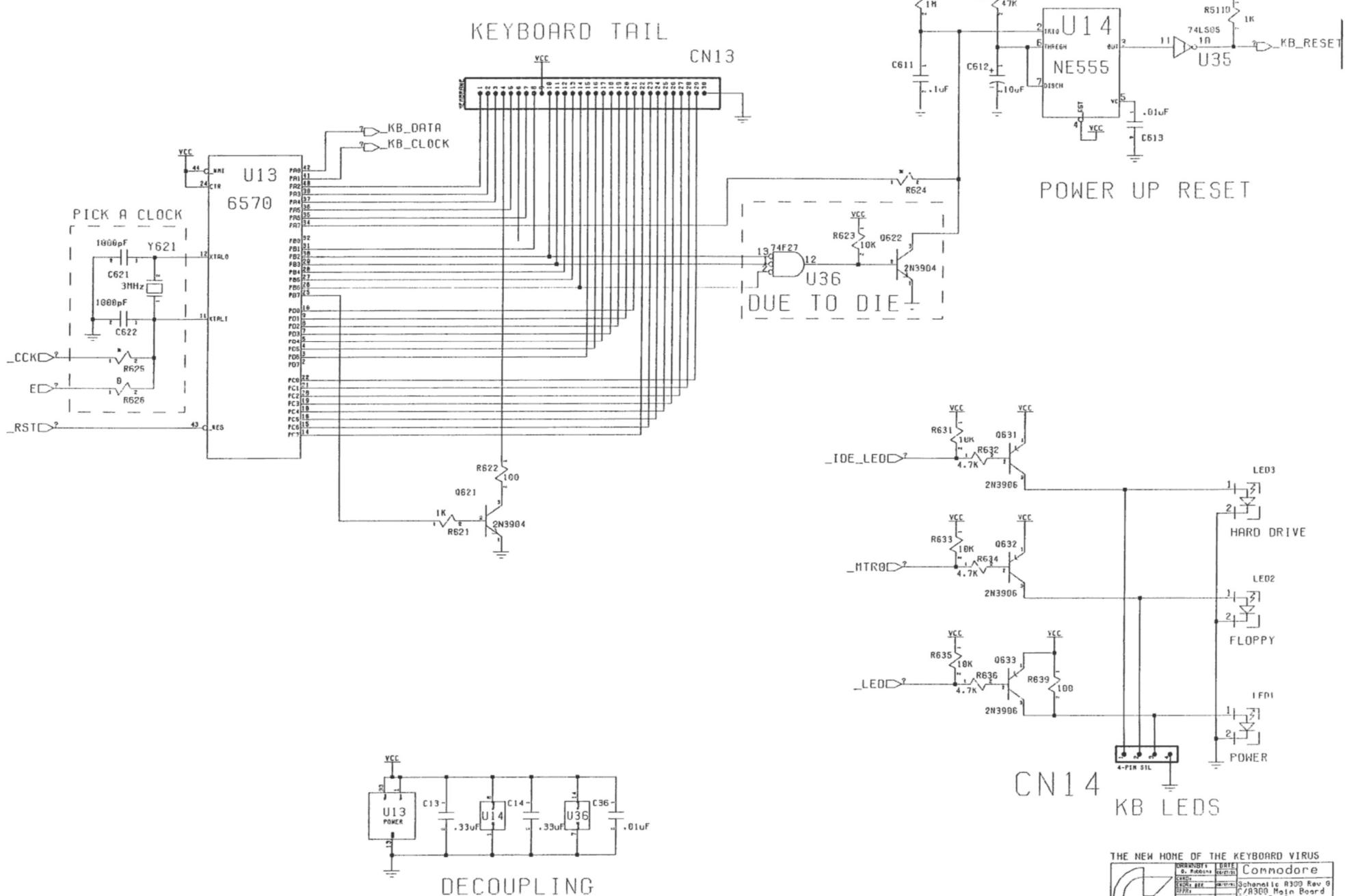
EXTERNAL FLOPPY



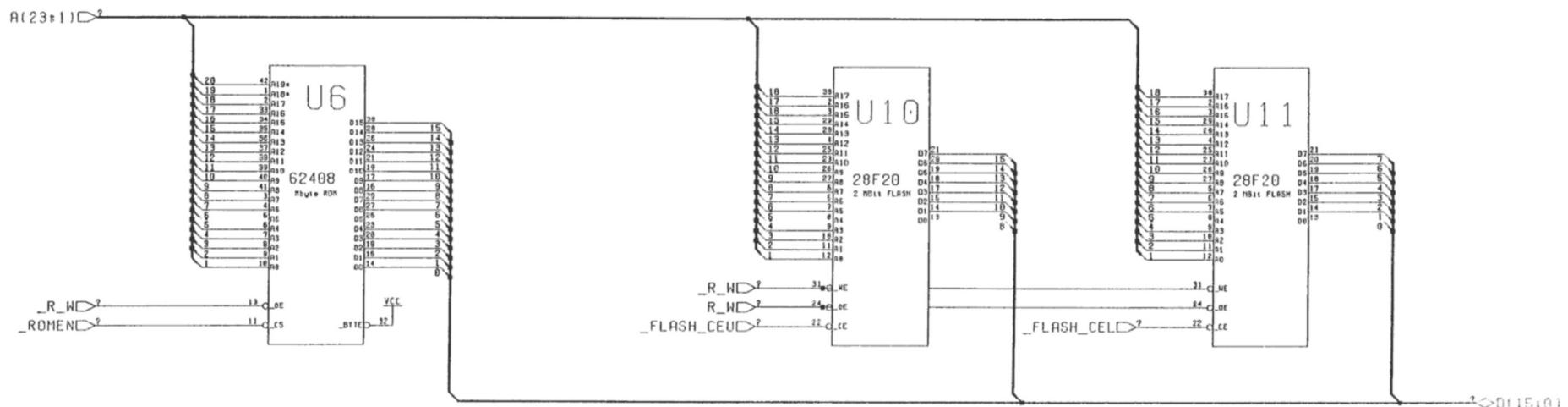
DECOUPLING

A300 Rev 0 PCB



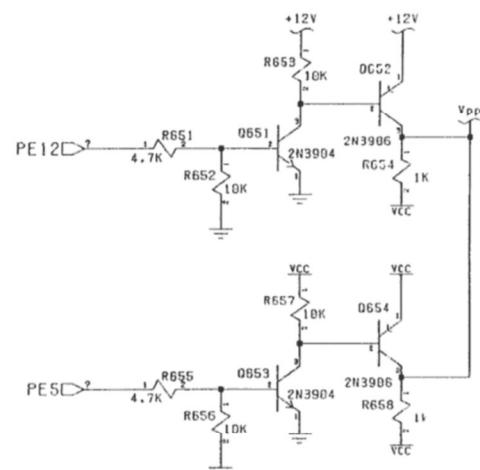


ROM

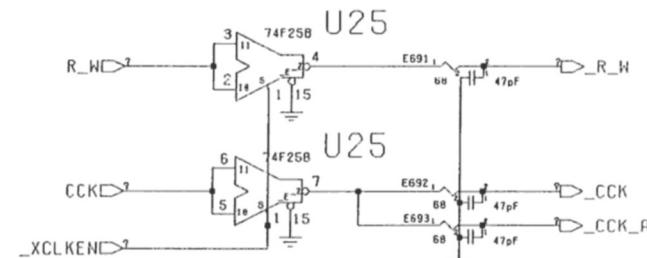


FLASH MEMORY

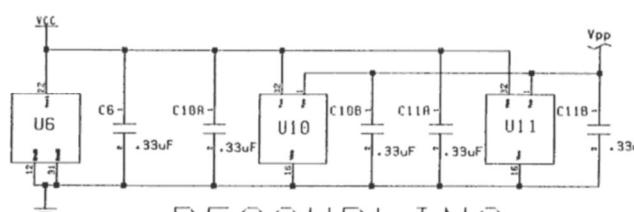
PROGRAMMING VOLTAGE



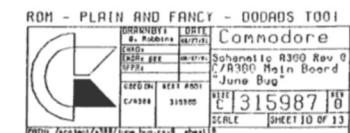
FUNNY INVERTERS



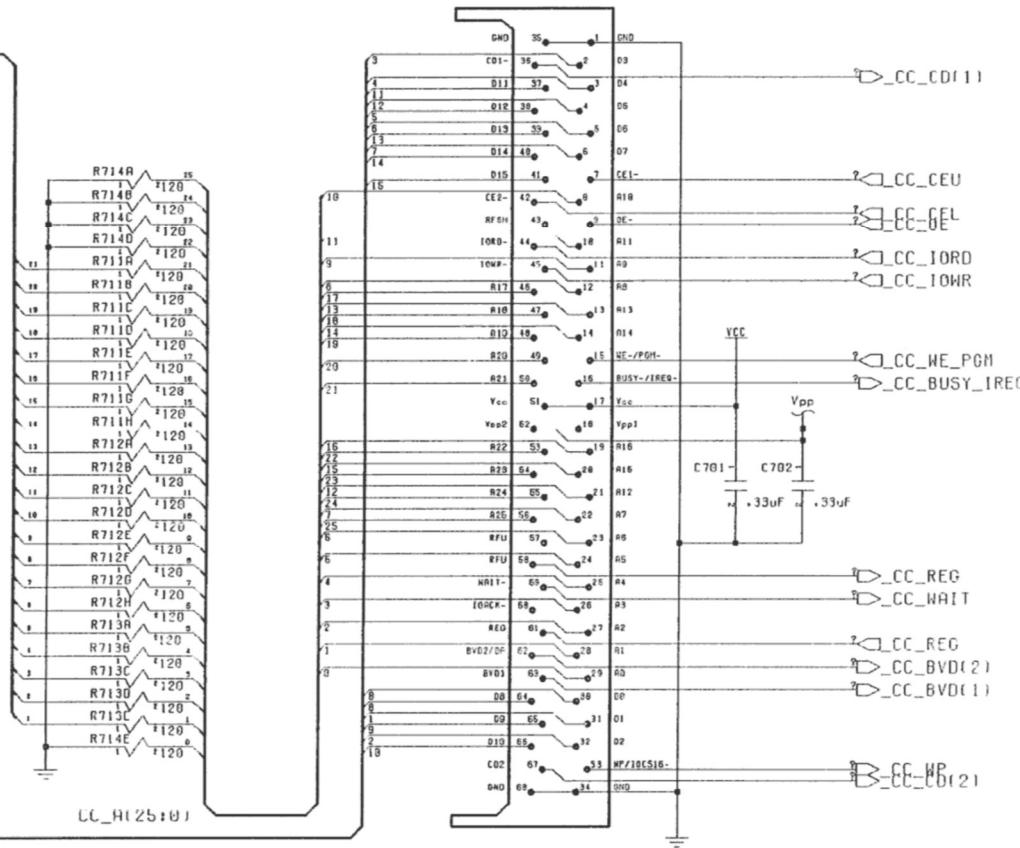
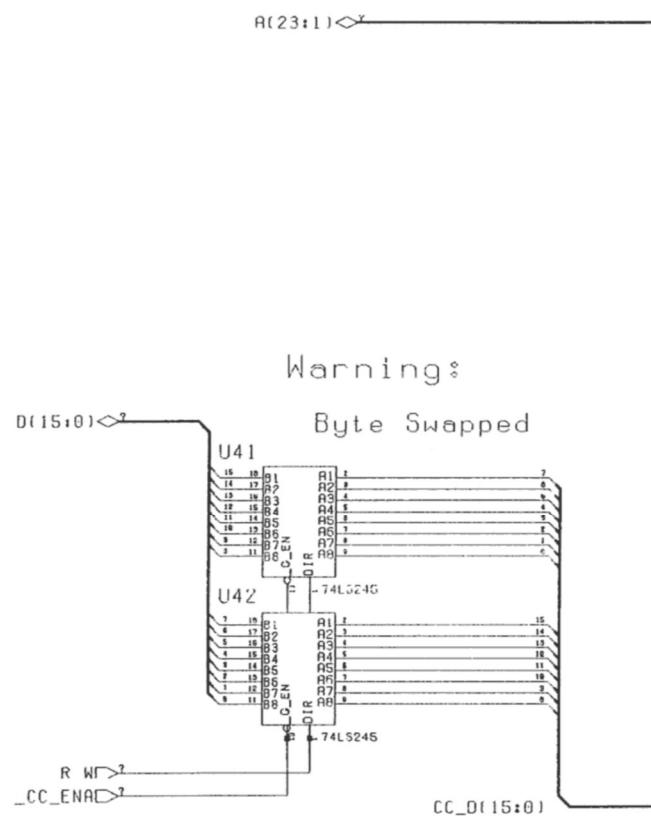
A300 Rev 0 PCB



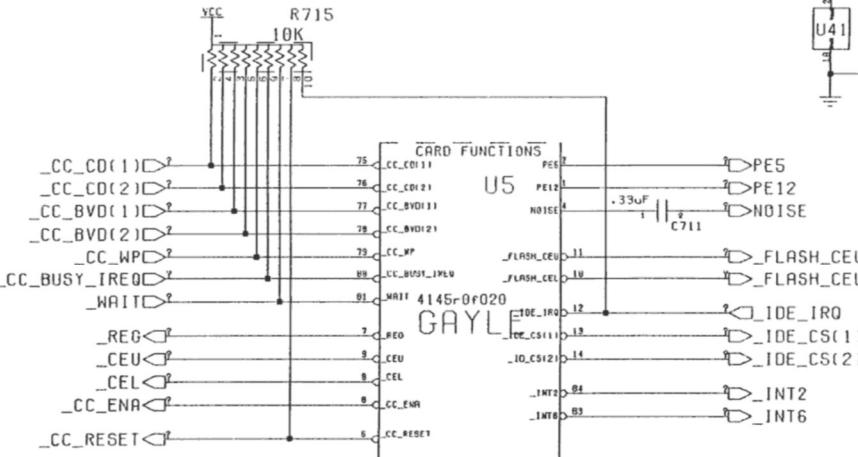
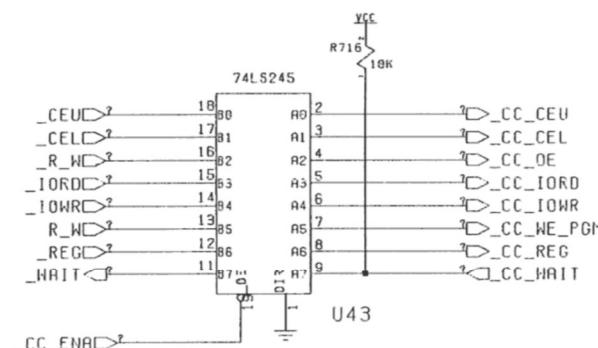
DECOUPLING



MEMORY CARD



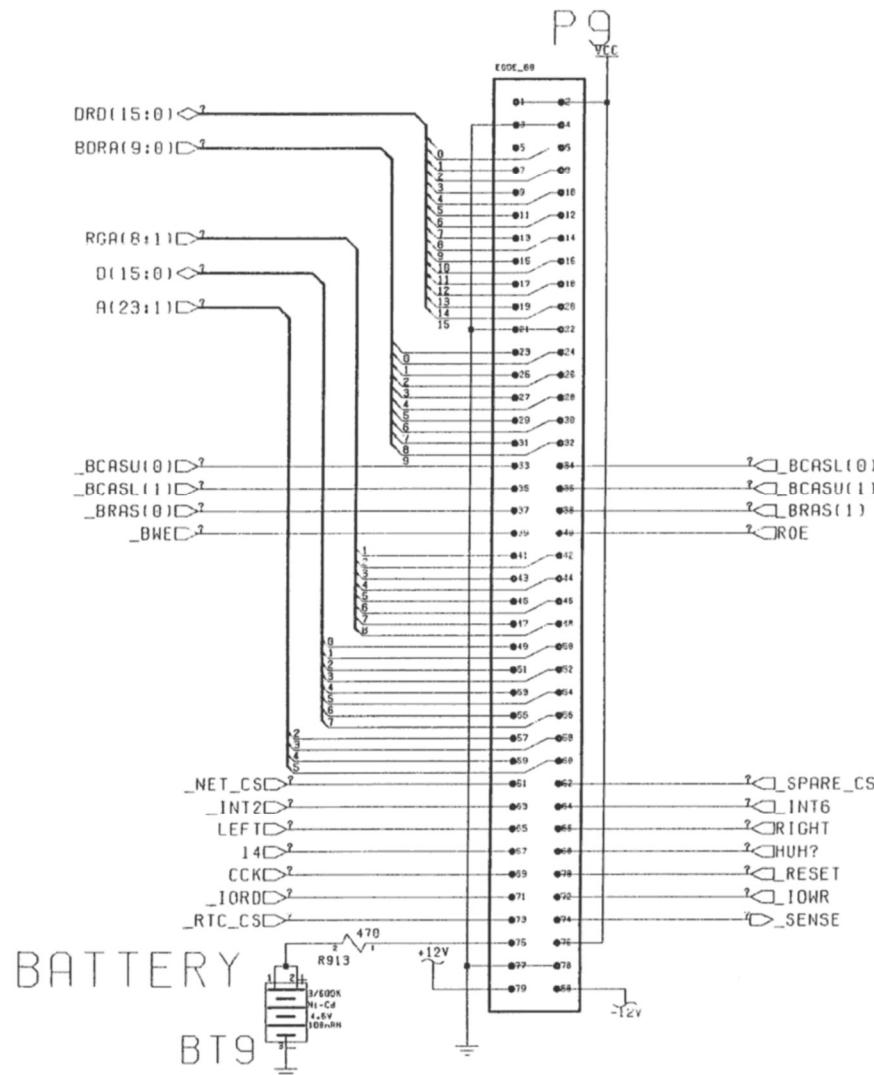
CN15



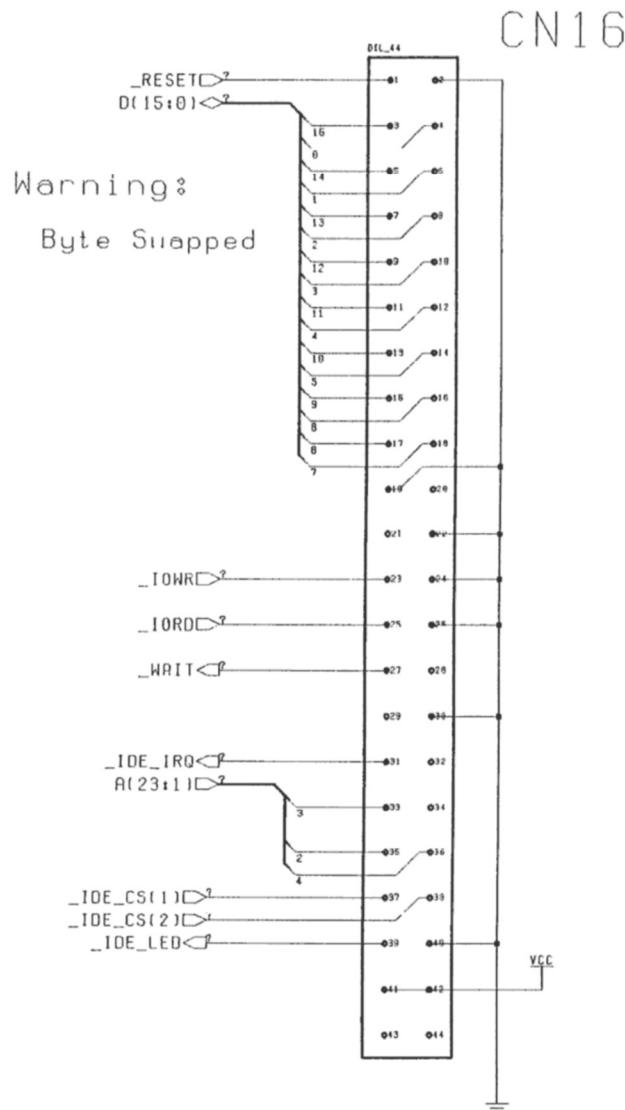
A300 Rev 0 PCB

THE KISSY FACE CREDIT CARD MONSTER
BY RICHARD L. STONE
Commodore
Card Rev 0
Schematic A300 Rev 0
Date 7/20/90
Version 1.0
Sheet 11 of 13
C 315987 0
Scale 1:1
Page 11 of 13

MEMORY EXPANSION

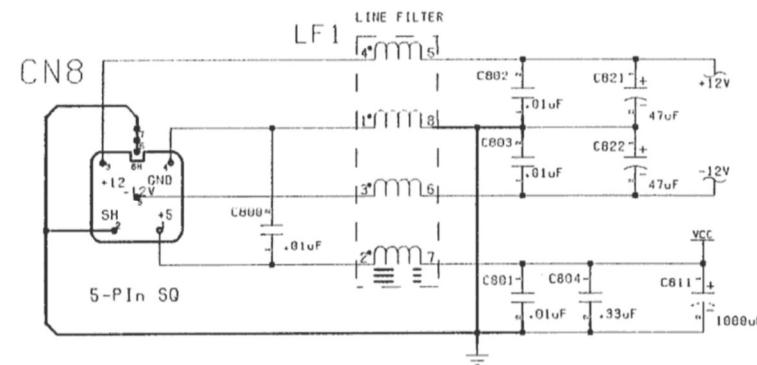


IDE DRIVE



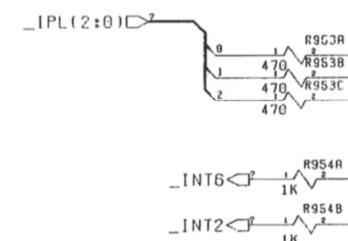
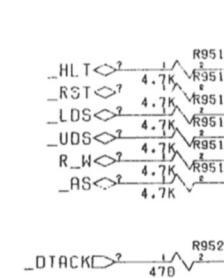
A300 Rev 0 PCB

POWER INPUT

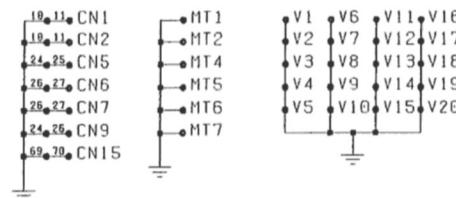


NOTE: HEAVY LINES INDICATE A SINGLE POINT CONNECTION

"BUS" TERMINATION



GROUNDED HOLES, &c.



A300 Rev 0 PCB

POWER DISTRIBUTION AND DECOUPLING		DRAWN BY	DATE
		G. Rabbett	6/2/93
		Schematic A300 Rev 0	
		C/A300 Main Board	
		Juno Bug	
VERISON	REV/TEST	310005	
C/ASME		E 315987	REV
		SCALE SHEET 13 OF 13	