Amiga

A1200_R2

Rev.1.38 (06.09.2012)

Revision History

REV	DESCRIPTION	DATE	APRVL	MANAGER
0	Engineering Prototype	03/13/92	GRR	
1	Advance Engineering Release	06/29/92	GRR	
A	Production Release			

Jumpers and Stuff

REF	TYPE	DESCRIPTION	PAGE
R246	SMT	NTSC Color Burst	4
R202	SMT	PAL Color Burst	4
R625	SMT	Keyboard MPU Clock	9
R624	SMT	Keyboard/System Reset	9

Connectors

REF	TYPE	DESCRIPTION	PAGE
CN1	DB9P	Mouse/Joystick 1	5
CN2	DB9P	Mouse/Joystick 2	5
CN3	RCA-J	Right Audio Output	5
CN4	RCA-J	Left Audio Output	5
CN5	DB23S	External Floppy	8
CN6	DB25P	RS232 Serial Port	7
CN7	DB25S	Parallel Printer Port	7
CN8	SQ DIN	Power Supply Connector	13
CN9	DB23P	Video Output	6
CN10	RCA-J	Composite Video	4
CN11	DIL-34	Internal Floppy Signal	8
CN12	SIL-4	Internal Floppy Power	8
CN13	MEM-30	Keyboard Membrane	9
CN14	SIL-4	Internal Floppy Power	8
CN13	MEM-30	Keyboard Membrane	9
CN14	SIL-4	Keyboard Status LED's	9
CN15	PCMCIA	PC"Memory Card"	11
P9	EDGE-80	Memory Bus Expansion	12

Signal Glossary

SIGNAL	DESCRIPTION (AREA)	PAGES
28MHZ	28.63636 MHz Master Clock	
7MHZ	7.15909 MHz Processor Clock	
A[23:1]	Processor Address Bus (68000)	
ACK	Data Acknowledge (Parallel Port)	
AS	Address Strobe (68000)	
AUDIN	Audio Input (RS232 Port)	
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)	
CCK/CCKQ	Color Clock / Quadrature (Chips)	
CDAC	7.15909 MHz Quadrature Clock (Chips)	
CHNG	Media Change (Floppy)	
CLKRD/WR	Read-Time Clock Read / Write (RTC)	
COMP	Monochrome Composite Video (Video)	
CSYNC	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)	
DKWE	Disk Write Enable (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 (RS232 Port)	
DTACK	Data Transfer Acknowledge (68000)	
DTR	Data Terminal Ready (RS232 Port)	
E	Peripheral Enable Clock (68000)	
EXTICK	Expansion Present / RTC Tick	
FC[2:0]	Function Code (68000)	
FIRE0/1	Fire Button 0/1 (Joysticks)	
HLT	Processor Halt (68000)	
HSYNC	Horizontal Sync (Video)	
INDEX	Index Pulse (Floppy)	
INT[2,3,6]	Interrupt Request (Chips)	
IORESET	I/O Reset	
IPL[2:0]	Interrupt Priority Level (68000)	
KBCLOCK	Keyboard Clock (Keyboard)	
KBDATA	Keyboard Data (Keyboard)	
KBRESET	Keyboard Reset (Keyboard)	
LDS/UDS	Upper / Lower Data Strobes (68000)	
LED	Power On LED / Audio Filter Disable	
LEFT/RIGHT	Left Right Audio (Audio)	

SIGNAL	DESCRIPTION (AREA)	PAGES
LPEN	Light Pen Trigger (Joysticks)	
MTR	Motor On (Floppy)	
MTR0	Motor On - Drive 0 (Floppy)	
M0V/M0H	Mouse 0 Quadrature V/H (Joysticks)	
M1V/M1H	Mouse 1 Quadrature V/H (Joysticks)	
OVL	Overlay ROM over RAM	
OVR	Override System Decoding	
PIXELSW	Genlock Pixel Switch (Video)	
POT0X/0Y	Pot Lines 0 X/Y (Joysticks)	
POT1X/1Y	Pot Lines 1 X/Y (Joysticks)	
POUT	Paper Out (Parallel Port)	
PPD[7:0]	Parallel Port Data (Parallel Port)	
RAMEN	RAM Enable (Chips)	
REGEN	Chip Register Enable (Chips)	
RAS0/1	Row Address Strobe (DRAM)	
RDY	Drive Ready (Floppy)	
RESET	General Reset	
RGA[8:1]	Register Address Bus (Chips)	
R/G/B	Red / Green / Blue (Video)	
RI	Ring Indicate (RS232 Port)	
ROMEN	ROM Enable (ROM)	
RTS	Request to Send (RS232 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)	
TRK0	Track Zero Sense (Floppy)	
TXD	Transmit Data (RS232 Port)	
VMA	Valid Memory Address (68000)	
VPA	Valid Peripheral Address (68000)	
VSYNC	Vertical Sync (Video)	
WE	Write Enable (DRAM)	
WPROT	Write Protect Sense (Floppy)	
XCLK	External Genlock Clock (Video)	
XCLKEN	External Clock Enable (Video)	
XRDY	External Data Ready	
	** Credit Card and IDE Stuff? **	

Key Components

REF	CHIP	DESCRIPTION	PAGE
U1	68EC020	68EC020 uP/16MHz	2
U2	8374	Alice (AA Agnus)	2
U3	8364	Paula	5
U4	4203	Lisa (AA Denise)	4
U5	f0022x	AA Gayle (CBM ASIC)	2,8,11
U6A-B	asst	ROM 512Kx16, 150 nS	10
U7-8	8520	Amiga VIA, 1 MHz	7
U10-11	28F400	4Mbit FLASH Memory	10
U12	CXA1145	Sony Video Encoder	4
U13	6570-36	Amiga Keyboard MPU	9
U14	NE555	Reset Timer	9
U15	LF347	BiMOS Op-Amp	5
	TL084	BiCMOS Op-Amp	alt
U16-17	Asst	DRAM 512Kx8, 80nS	3
U18-19	Asst	DRAM 512Kx8, optional	3
U20	391???	Bridgette (NCR ASIC)	2
U28	1488	EIA Line Driver	7
U29	1489	EIA Line Receiver	7
U30	BT101	Triple 8-bit Video DAC	4
X1	OSC	TTL 28.63636 MHz NTSC	2
	OSC	TTL 28.37512 MHz PAL	alt
Y451	XTAL	4.433619MHz PAL Burst	4
Y621	XTAL	3MHz Ceramic Resonator	9
X2	UD3626	PAL Video Modulator	4
	VA3424	NTSC Video Modulator	4

A1200 Rev 2 PCB

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DIRECTORIES AND REVISION HISTORY

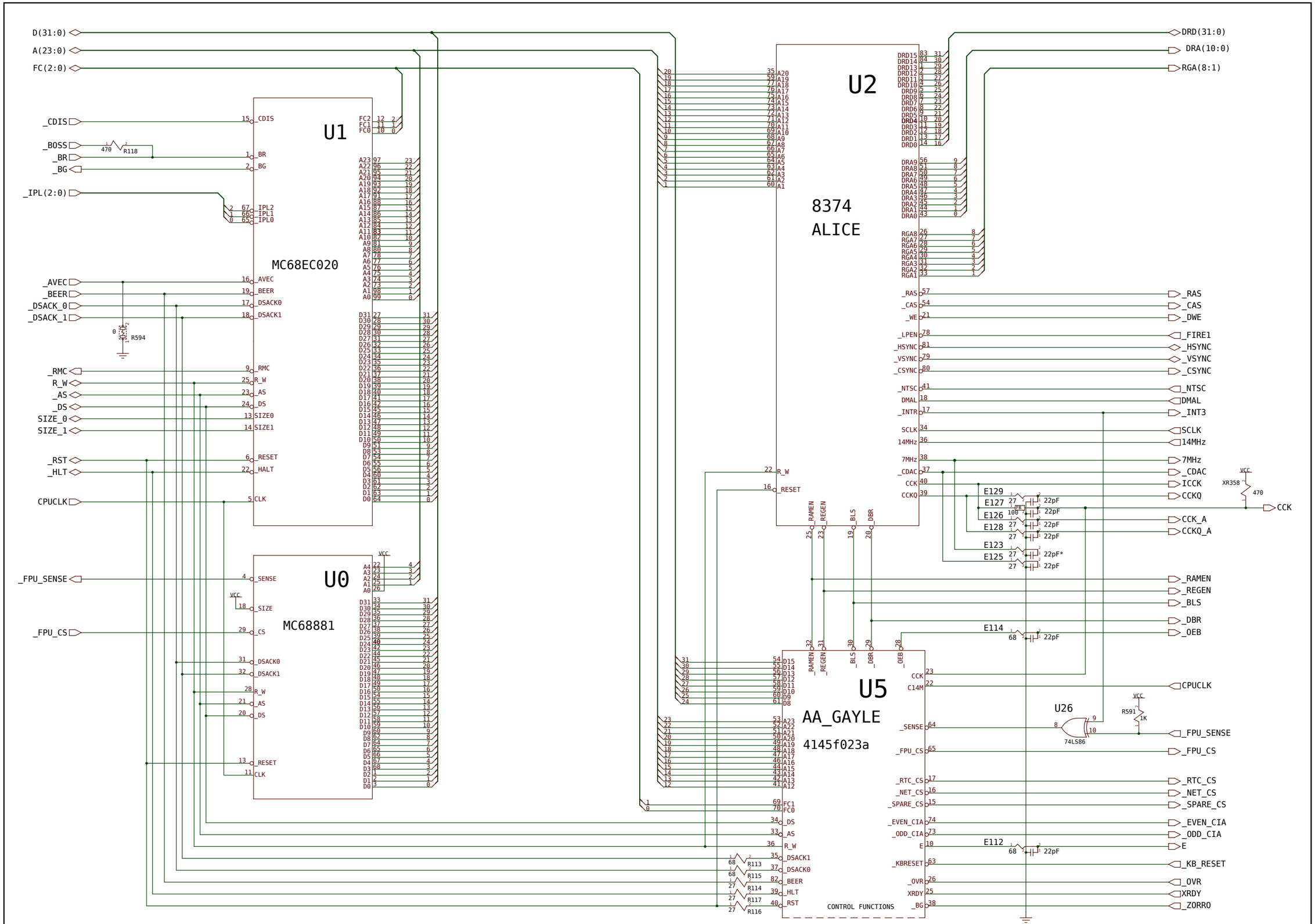
DESIGN BY: G. Robbins — DATE 03/13/92
DRAW: GRR — 03/13/92
LAST: BAF — 01/11/93
CHKD:
APPR:
USED ON: C/A1200
NEXT ASSY: 365132

Commodore
Schematic A1200 R2
C/A1200 Main Board
"Channel Z"

SIZE C | 365133 | REV A
SCALE
SHEET 1 OF 13

PATH: /project/a300/channel_z.rev2 sheet1

Rev.1.38 (06-09-2012)



Channel Z

A1200 Rev 2 PCB

04/19/92

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

PROCESSOR AND OTHER USEFUL COMPONENTS

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DESIGN BY: G. Robbins	DATE 03/13/92	Commodore
DRAW: GRR	03/13/92	Schematic A1200 R2
LAST: BAF	7/23/93	C/A1200 Main Board
CHKD:		"Channel Z"
APPR:		
USED ON	NEXT ASSY	
C/A1200	365132	SIZE C 365133 REV A
		SCALE SHEET 2 OF 13

PATH: /project/a300/channel_z.rev2 sheet2

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DRD(31:0)
DRA(9:0)
D(31:0)
BDRA(9:0)

R151
68

U16 U17 U18 U19
512Kx8
DRAM

U20
391425
BUDGIE
BRIDGE/DRAM PART

_RAS
_CAS
_DWE
_DBR
A(1)
A(0)
SIZE_1
SIZE_0
R_W
_DS
_OEB
_RST

BWE_
RAS_1
RAS_0
CAS_UU_
CAS_UM_
CAS_LM_
CAS_LL_
CAS_XX_
UDS_
LDS_

R152G R165 R152A R152B R152C R152D R152E R152F R162 R163 R164

_BCAS_XX
_UDS
_LDS

C162 C165
22pF *

_ROE
_BWE
_BRAS(1)
_BRAS(0)
_BCAS_UU
_BCAS_UM
_BCAS_LM
_BCAS_LL

C152
22pF
R161
470

VCC
C16A C16B C17A C17B C18A C18B C19A C19B
0.22uF

DRAM DECOUPLING

A1200 Rev 2 PCB

MEMORY AND...WELL, I USED TO REMEMBER

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DESIGN BY: G. Robbins	DATE 01/11/92	Commodore
DRAW: GRR	01/11/92	Schematic A1200 R2
LAST: BAF	01/11/92	C/A1200 Main Board
CHKD:		"Channel Z"
APPR:		
USED ON C/A1200	NEXT ASSY 365132	SIZE C 365133 REV A
		SCALE SHEET 3 OF 13

PATH: /project/a300/channel_r.rev2 sheet3

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U32
74HCT244
_CSYNC
_RESET
CCK_B
_CSYNC_B
PIXELSW
DR
DG
DB
DI
R371
47
R233
470
RGA(8:1)
DRD(31:0)
U4
LISA
4203
_ZD
BLANK
SOG
_BURST
R264
R261
R262
R263
R265
68
74F139
U23
U30
BT101
VIDEO DAC
IOR
IOG
IOB
ISYNC
COMP
VREF
FS_ADJUST
REF_WHITE
BLANK
SYNC
CLOCK
+VID
C216
0.01uF
R216
15
C215
R215
1K
C217
0.22uF
D215
LM385
1.2V
D215A
R217
470
C217 added Rev 2a
VIDEO DAC
1N914
D231A
D232A
D233A
D231B
D232B
D233B
R232A
R232B
R232C
24.9
AR
AG
AB
R231
49.9
C221
C222
0.1uF
Z221
BPF
R223
787/620
VVref
R224
820
DELAY LINE
Z222
R221
R222
1K/820
1K
R225
COMPOSITE
RGA8
RGA7
RGA6
RGA5
RGA4
RGA3
RGA2
RGA1
D31
D30
D29
D28
D27
D26
D25
D24
D23
D22
D21
D20
D19
D18
D17
D16
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
WIDE
CAS
RST
CCK
MDAT
MLD
SCLK
C140
_BCAS_XX
_RST
E375
E376
E377
22pf
27
X1
28.63636MHz
OSCILLATOR
Note: PAL uses 28.37516 MHz
R100
470
E131
*/10pf
U20
BUDGIE
391425
CLOCK_PART
CLOCKS
OSC
XCLK
XCLKEN_
CDAC_
C7MHz
CCK
C28MHz
CPUCLK
CCK_4
E133
28MHz
E122
E121
E124
CPUCLK_A
CPUCLK
CC@4
22pF
XCLK
_XCLKEN
_CDAC
7MHz
ICCK
E201
E202
74F32
U37
CCKQ_A
BUDGIE BLUES...
XU33
XC33
0.047uF
74LS74A
XR33
68*
G/I-PAL ONLY
4.33619MHz
Y451
R241
4.7K
C242
15pF
C241
56pF
C243
1000pF
L241
1.2uH
C244
0.01uF
R243
10K
R244
1K
R245
*/2.7K
R242
6.8K
Q461
2N3904
C246
0.01uF
C245
56pF
M/N-PAL ONLY
Y452
3.575611MHz*
C247
47pF*
C248
33pF*
R247
15K*
R246
2.7K/*
MONO
_NTSC
C214
10uF
R202
1K
R209
10K
R204
4.7K
Q201
R205
R203
0/*
C459
22uF
R459
27K
C460
C461
1000pF
R237
100
C235
100uF
R238
AUDIO_IN
NTSC_PAL
XO_IN
XO_OUT
Vref
AUDIO_OUT
CHROMA_OUT
LUMA_OUT
LUMA_IN
CHROMA_IN
R_IN
G_IN
B_IN
CS_IN
R_OUT
G_OUT
B_OUT
CV_OUT
CS_OUT
C211A
C211B
C211C
0.22uF
U12
CXA1145
ENCODER
COLOR
CN10
C237
470uF
C236
100uF
R234D
75
R235
360
E231
FB
100
100pF
RCA JACK
R232E
75
MODULATOR
X2
X2B
RF OUT
HI/LO
TUNE
MODULATOR
AUDIO
VIDEO
+5
GND
E232
4.7
0.01uF
100uF
C239
360/120
R236
DENISE IS PRETTY MUCH INTO VIDEO...
Note: Components designated as Exxx may be loaded with EMI fliters, ferrite beads or resistors!
A1200 Rev 2 PCB
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DESIGN BY: C. Robbins
DRAM: GRB 03/13/92
LAST: BAF 2/23/93
CHKD:
APPR:
USED ON C/A1200
NEXT ASSY 365132
Commodore
Schematic A1200 R2
C/A1200 Main Board
"Channel Z"
SIZE C
365133
REV A
SCALE
SHEET 4 OF 13
PATH: /project/a300/channel_z.rev2 sheet4
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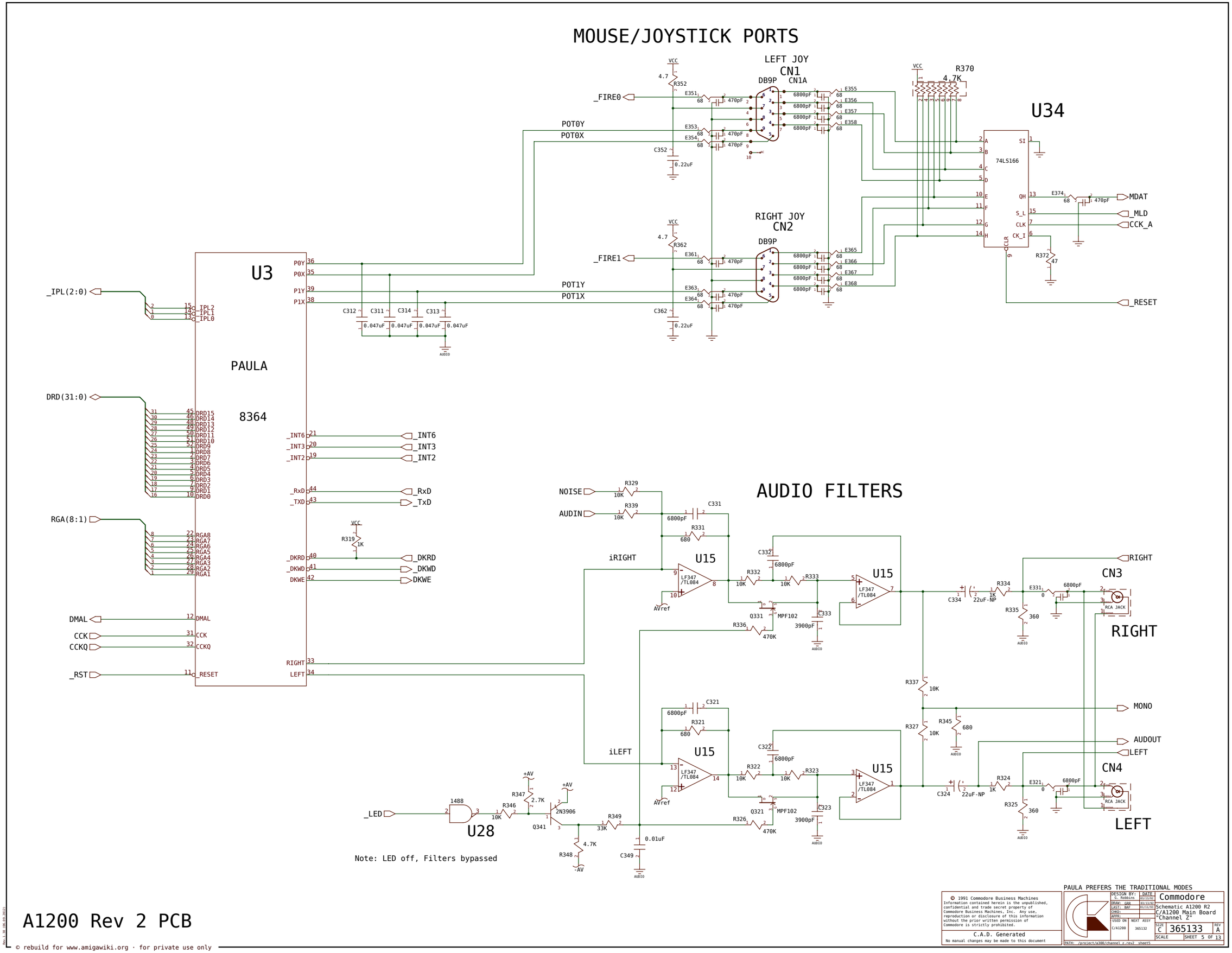
MOUSE/JOYSTICK PORTS
LEFT JOY
CN1
DB9P
CN1A
RIGHT JOY
CN2
DB9P
U34
74LS166
R370
4.7K
_FIRE0
_FIRE1
POT0Y
POT0X
POT1Y
POT1X
MDAT
_MLD
CCK_A
_RESET
U3
PAULA
8364
_IPL(2:0)
DRD(31:0)
RGA(8:1)
DMAL
CCK
CCKQ
_RST
_INT6
_INT3
_INT2
_RxD
_TxD
_DKRD
_DKWD
DKWE
RIGHT
LEFT
AUDIO FILTERS
NOISE
AUDIN
iRIGHT
iLEFT
U15
LF347
/TL084
AVref
MPF102
CN3
RIGHT
CN4
LEFT
MONO
AUDOUT
_LED
U28
1488
2N3906
Q341
Note: LED off, Filters bypassed
A1200 Rev 2 PCB
PAULA PREFERS THE TRADITIONAL MODES
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Commodore
Schematic A1200 R2
C/A1200 Main Board
"Channel Z"
365133
SHEET 5 OF 13
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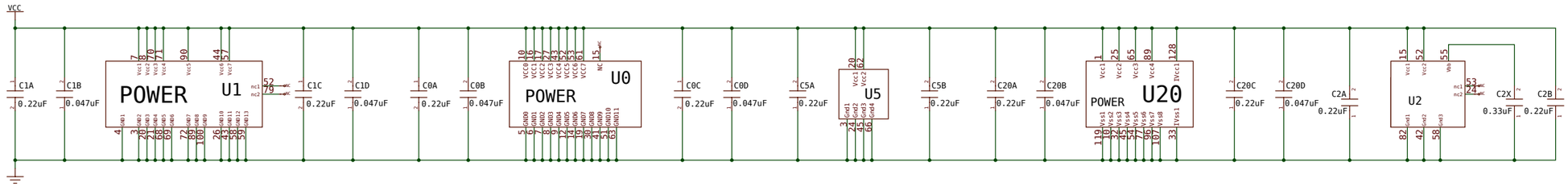
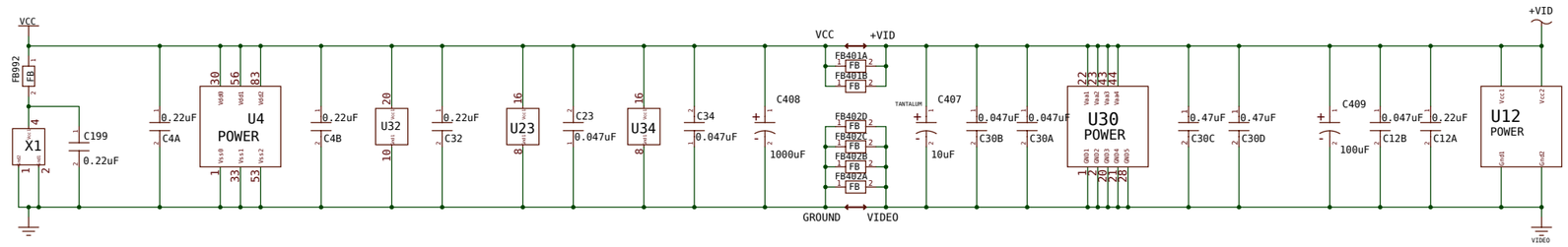
GENERAL DECOUPLING

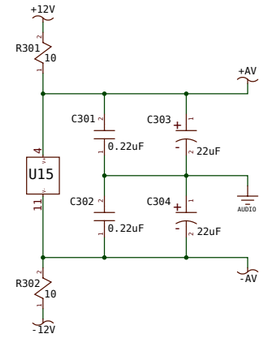


VIDEO DECOUPLING

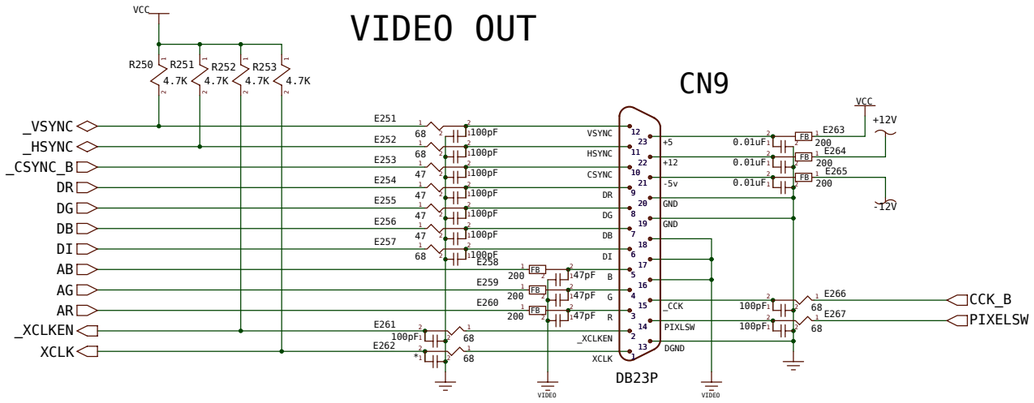


Note: Common Ground at DAC

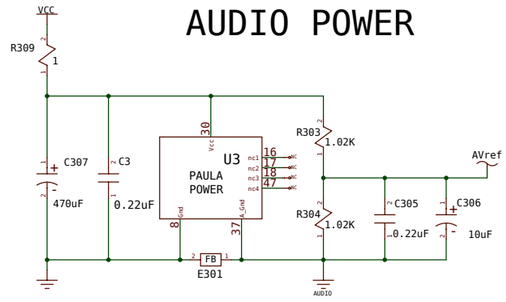
AUDIO DECOUPLING



VIDEO OUT



AUDIO POWER



Note: Common Ground near Jacks

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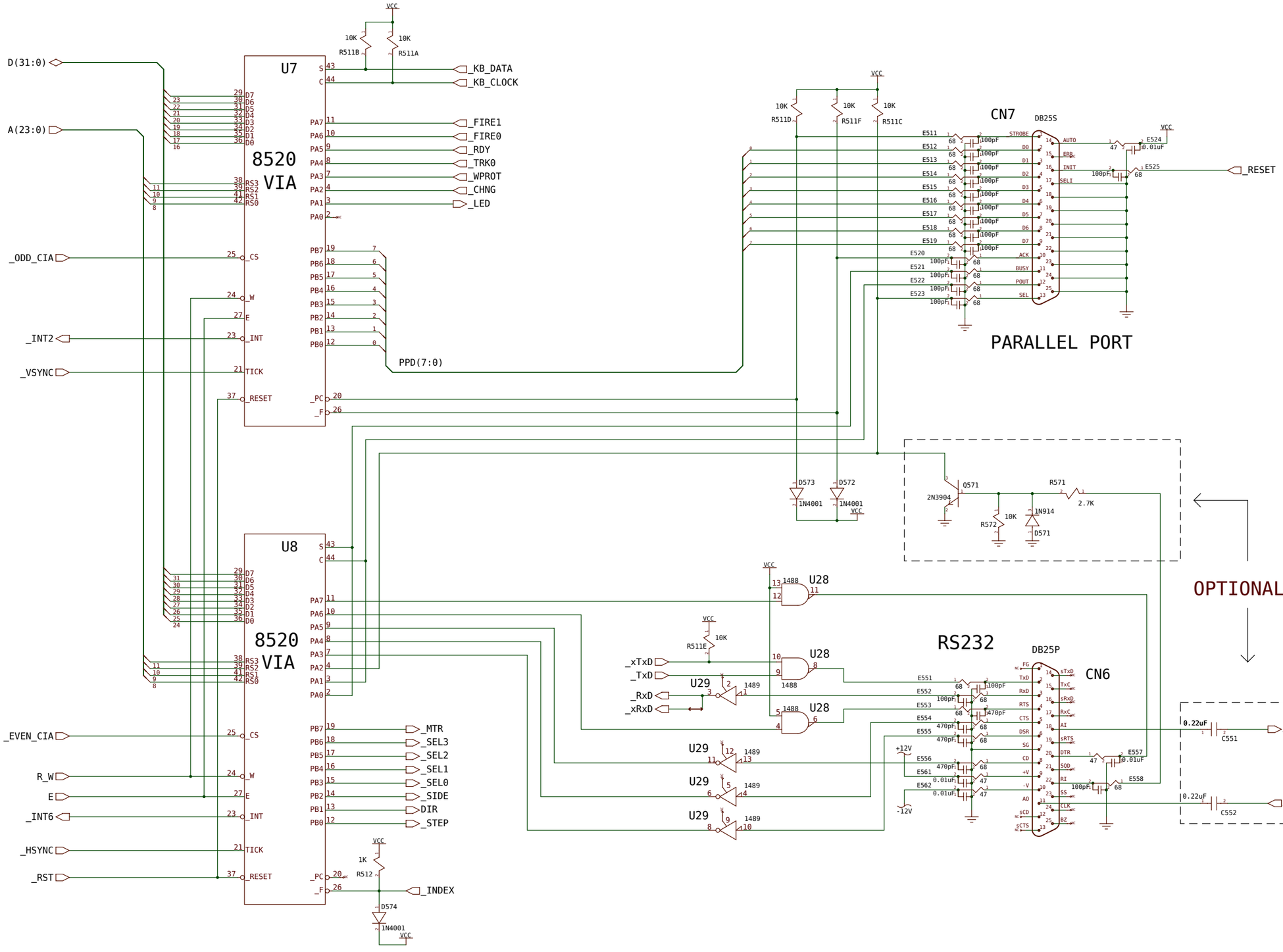
PARTY OUT OF BOUNDS, WHAT A MESS...

DESIGN BY: G. Robbins	DATE 01/11/92	Commodore	
DRAW: GRA	01/11/92	Schematic A1200 R2	
LAST: BAF	01/11/91	C/A1200 Main Board "Channel Z"	
CHKD:			
APPR:			
USED ON C/A1200	NEXT ASSY 365132	SIZE C	365133 REV A
		SCALE	SHEET 6 OF 13

PATH: /project/a300/channel z.rev2 sheet6

Rev.1.38 (06-09-2012)



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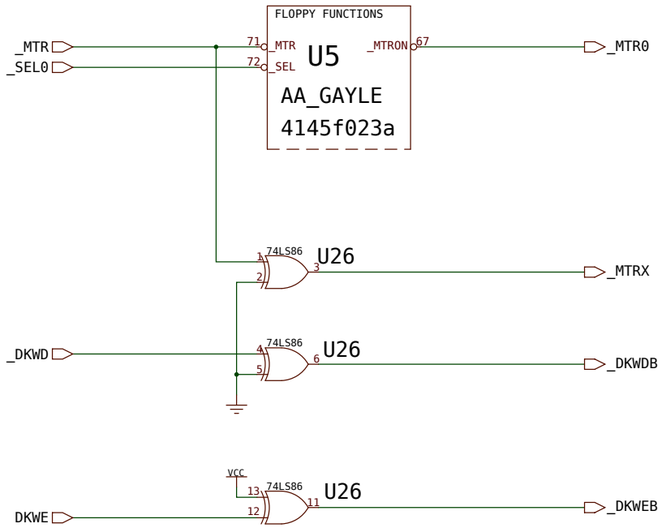
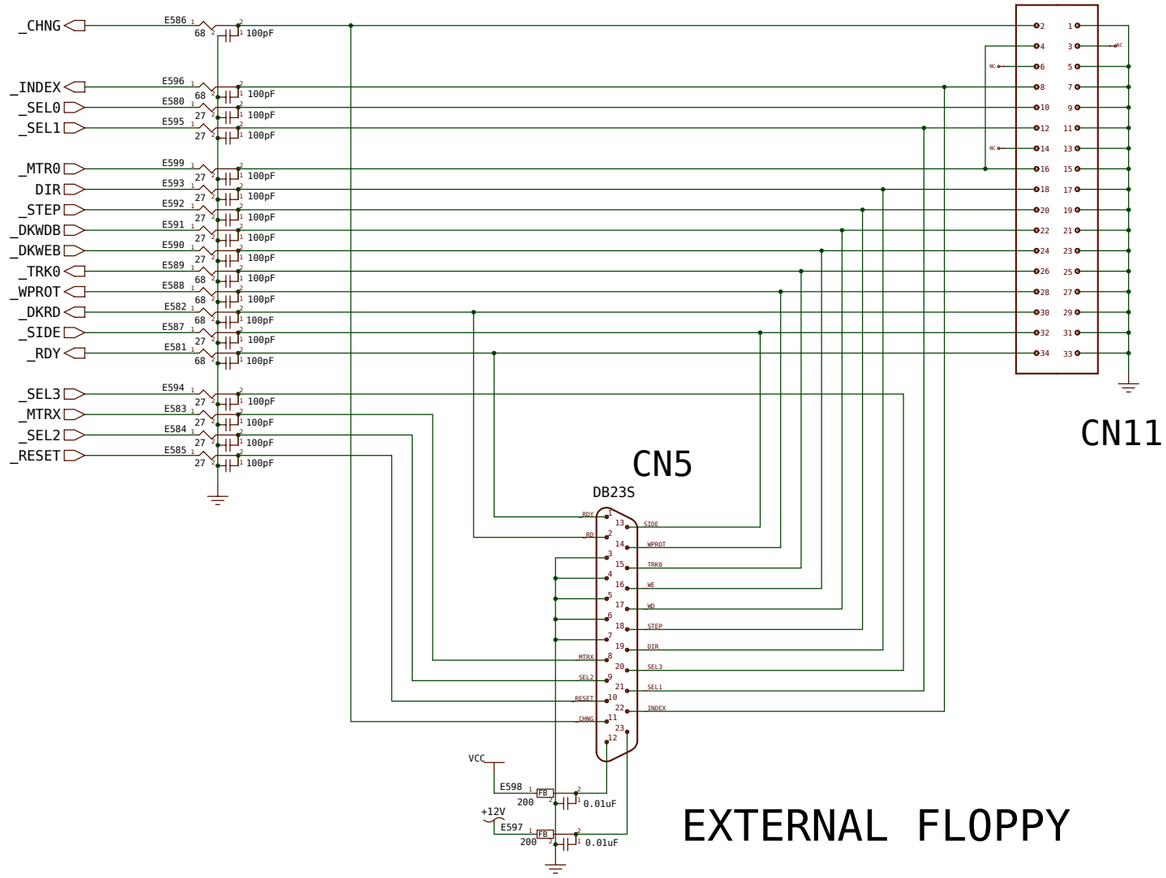
FLOPPY LOGIC

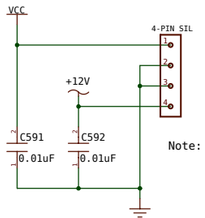


INTERNAL FLOPPY



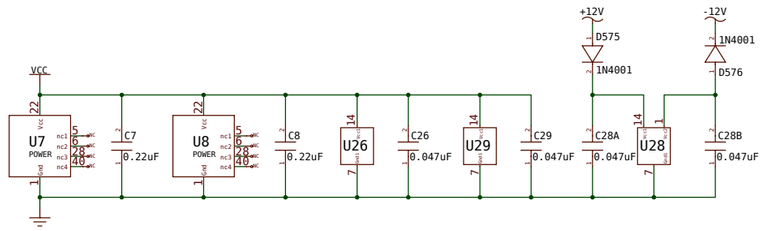
EXTERNAL FLOPPY

FLOPPY POWER



CN12

Note: Some drives are +5 only...



DECOUPLING

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THE REST OF THE FLOPPY STUFF

DESIGN BY: G. Robbins	DATE 03/13/92	Commodore
DRAW: GRR	03/13/92	Schematic A1200 R2
LAST: BAF	03/13/92	C/A1200 Main Board
CHKD:		"Channel Z"
APPR:		
USED ON: C/A1200	NEXT ASSY: 365132	SIZE C · 365133 · REV A
		SCALE · SHEET 8 OF 13

PATH: /project/a300/channel_z.rev2 sheet8

KEYBOARD TAIL

CN13

MEMBRANE-31

KEYBOARD MPU

U13

68HC05C

KEYBOARD
MICRO

22pF C621
Y621 3MHz
22pF C622
R628 1M
OSC2
OSC1

R621 4.7K
R622 100
R624 4.7K
R625 *
R626 *
R623 10K

PD7 39
PD5 37
PD4 36
PD3 35
PD2 34
PD1 33
PD0 32
PC7 24
PC6 25
PC5 26
PC4 27
PC3 28
PC2 29
PC1 30
PC0 31
PB7 21
PB6 20
PB5 19
PB4 17
PB3 16
PB2 15
PB1 14
PB0 13
PA7 5
PA6 6
PA5 7
PA4 8
PA3 9
PA2 10
PA1 11
PA0 12
TCMP 38
TCAP 41

_KB_CLOCK
_KB_DATA
_KB_RESET

N.P. EMULATION
ENABLE JUMPER

R620 4.7K
R621 *
_IRQ
_RESET

R629 10K
C629 0.33uF
U49 RH5VA43A

POWER OK

7-PIN SIL
CN17
KB TEST

KB LEDS

5-PIN SIL
CN14

R631 10K
R632 4.7K
Q631 2N3906
_IDE_LED

R637 *
R638 *
Q634 2N3906
_CC_ENA

OPTIONAL

R633 10K
R634 4.7K
Q632 2N3906
_MTR0

R635 10K
R636 4.7K
Q633 2N3906
R639 100
_LED

U13 POWER
C13 0.22uF

A1200 Rev 2 PCB

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THE NEW HOME OF THE KEYBOARD VIRUS

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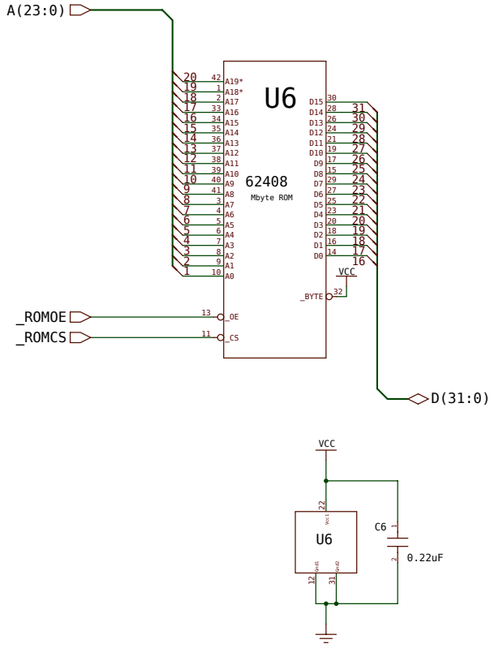
DESIGN BY: G. Robbins	DATE 01/11/92	Commodore
DRAWN: GRB	01/11/92	Schematic A1200 R2
LAST: BAF	01/11/92	C/A1200 Main Board
CHKD:		"Channel Z"
APPR:		
USED ON C/A1200	NEXT ASSY 365132	SIZE C 365133 REV A
		SCALE SHEET 9 OF 13

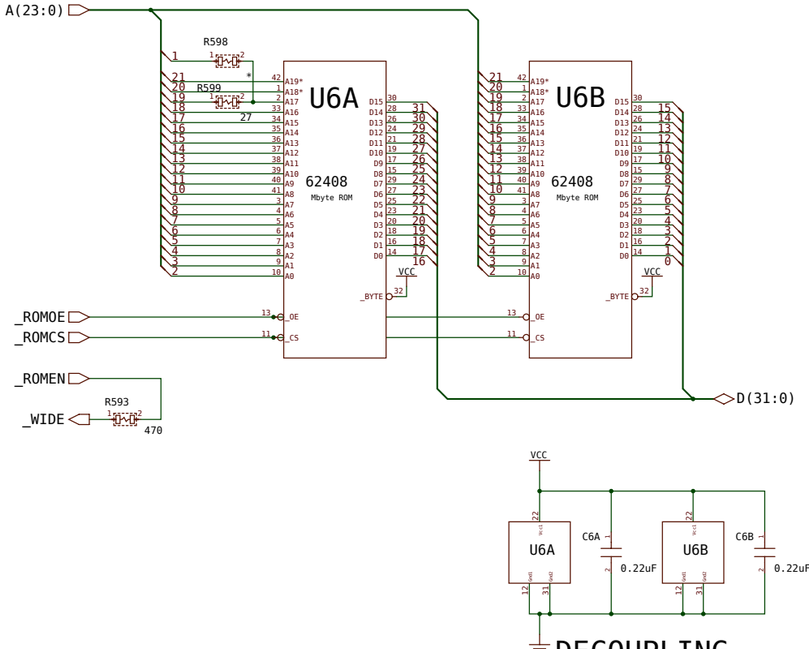
PATH: /project/a300/channel_z.rev2 sheet9

16-BIT ROM



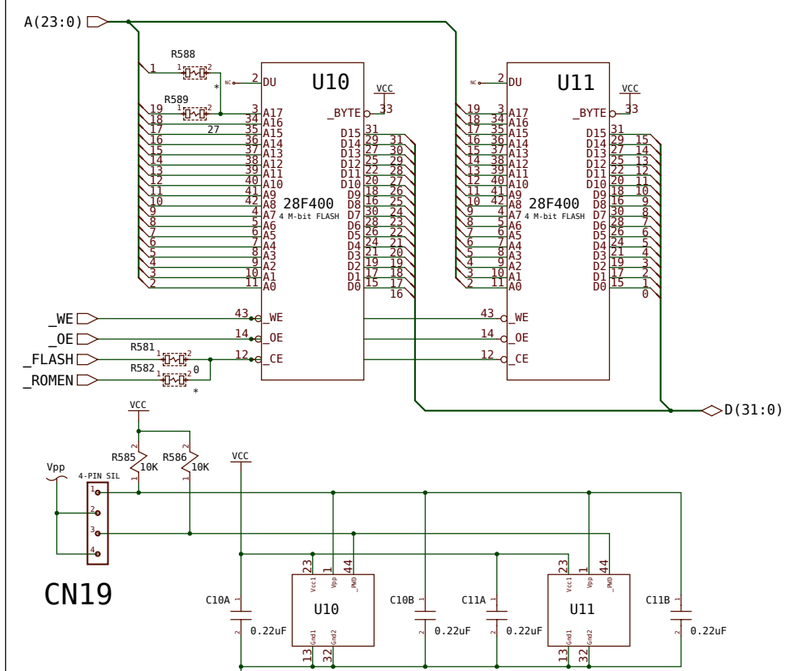
if rom16="yes"

32-BIT ROM



if rom32="yes"

28F400 4 M-bit FLASH

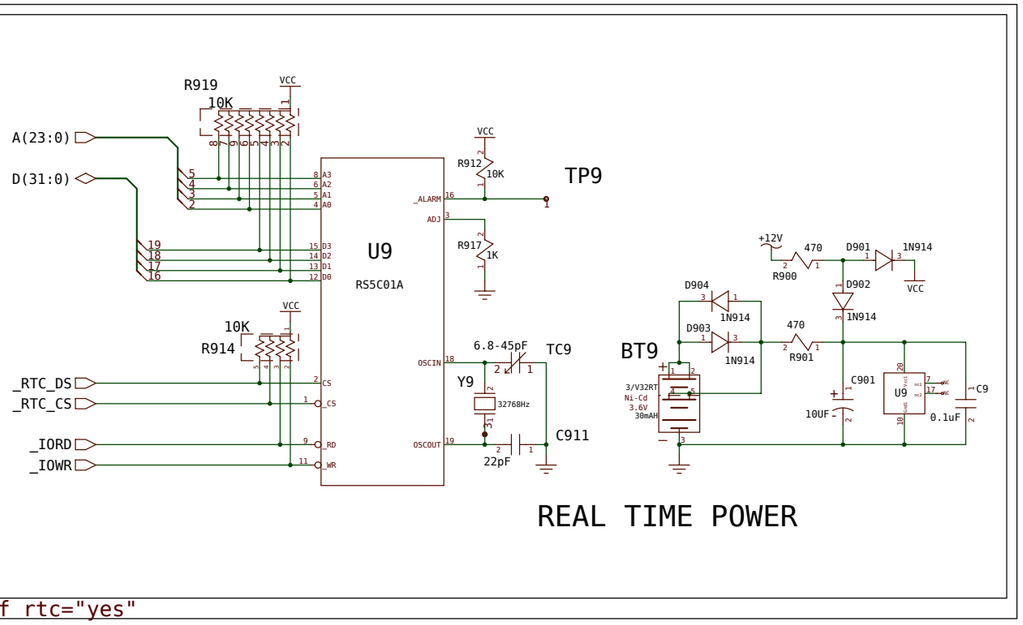


if flash="yes"

16 AND 32-BIT SOCKETS MAY OVERLAP!

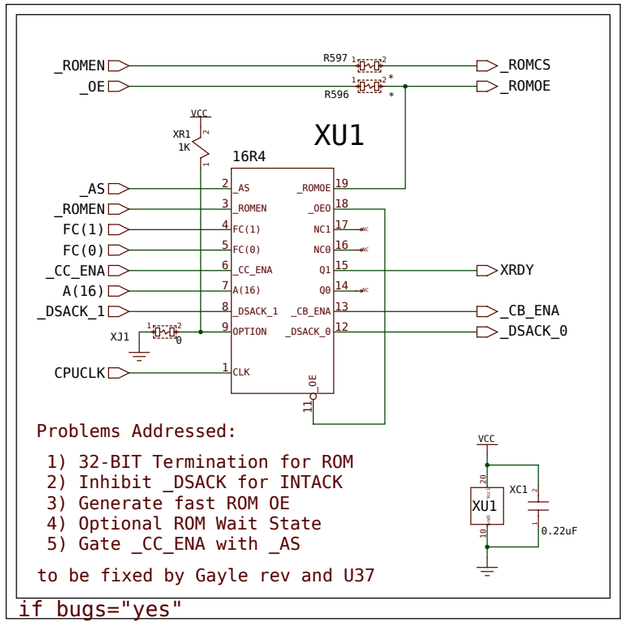
OPTIONAL FLASH MEMORY

OPTIONAL REAL-TIME CLOCK/CALENDAR



if rtc="yes"

BUGGERY



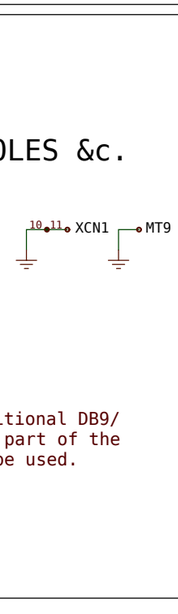
if bugs="yes"

MORE JOY

XCN1

DB9P XCN1A

HOLES &c.



This section define an additional DB9/
header pair on a breakaway part of the
so that a shorter PCB can be used.

if short="yes"

SHORT PCB TRIX

ROM - PLAIN AND FANCY - DODADS TOO!

A1200 Rev 2 PCB

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DESIGN BY: G. Robbins	DATE 03/11/92	Commodore
DRAW: GRR	03/11/92	Schematic A1200 R2 C/A1200 Main Board "Channel Z"
LAST: BAF	7/15/93	
CHKD:		
APPR:		
USED ON: C/A1200	NEXT ASSY: 365132	SIZE C / 365133 / REV A
		SCALE / SHEET 10 OF 13

PATH: /project/a300/channel_z.rev2 sheet10

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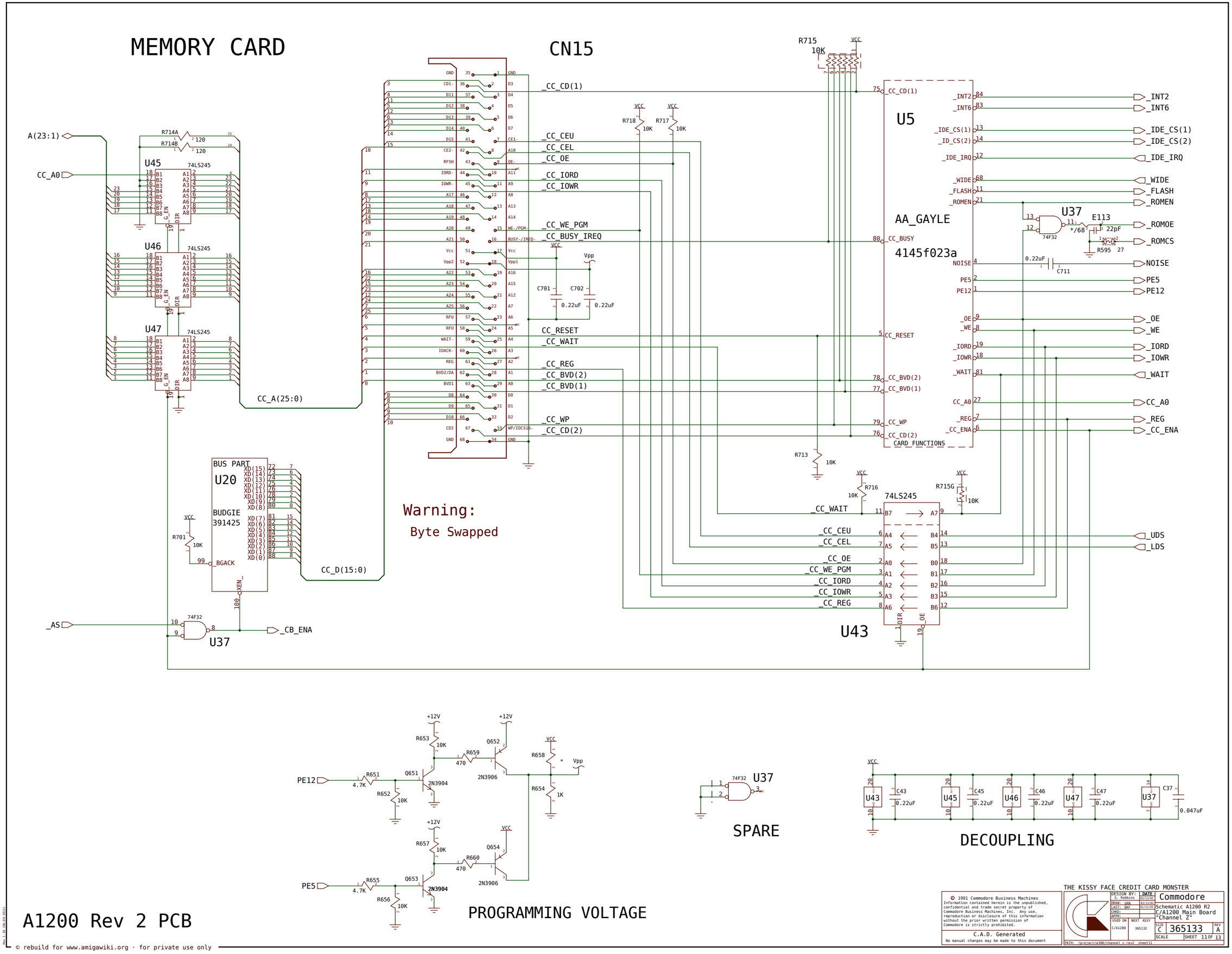
MEMORY CARD
CN15
U5
AA_GAYLE
4145f023a
U43
U37
U20
BUS PART
BUDGIE
391425
74LS245
U45
U46
U47
A(23:1)
CC_A0
CC_A(25:0)
CC_D(15:0)
_AS
_CB_ENA
_CC_CD(1)
_CC_CEU
_CC_CEL
_CC_OE
_CC_IORD
_CC_IOWR
_CC_WE_PGM
_CC_BUSY_IREQ
CC_RESET
_CC_WAIT
_CC_REG
_CC_BVD(2)
_CC_BVD(1)
_CC_WP
_CC_CD(2)
_INT2
_INT6
_IDE_CS(1)
_IDE_CS(2)
_IDE_IRQ
_WIDE
_FLASH
_ROMEN
_ROMOE
_ROMCS
NOISE
PE5
PE12
_OE
_WE
_IORD
_IOWR
_WAIT
CC_A0
_REG
_CC_ENA
_UDS
_LDS
CARD_FUNCTIONS
Warning:
Byte Swapped
PROGRAMMING VOLTAGE
SPARE
DECOUPLING
A1200 Rev 2 PCB
THE KISSY FACE CREDIT CARD MONSTER
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Commodore
Schematic A1200 R2
C/A1200 Main Board
"Channel Z"
365133
SHEET 11 OF 13
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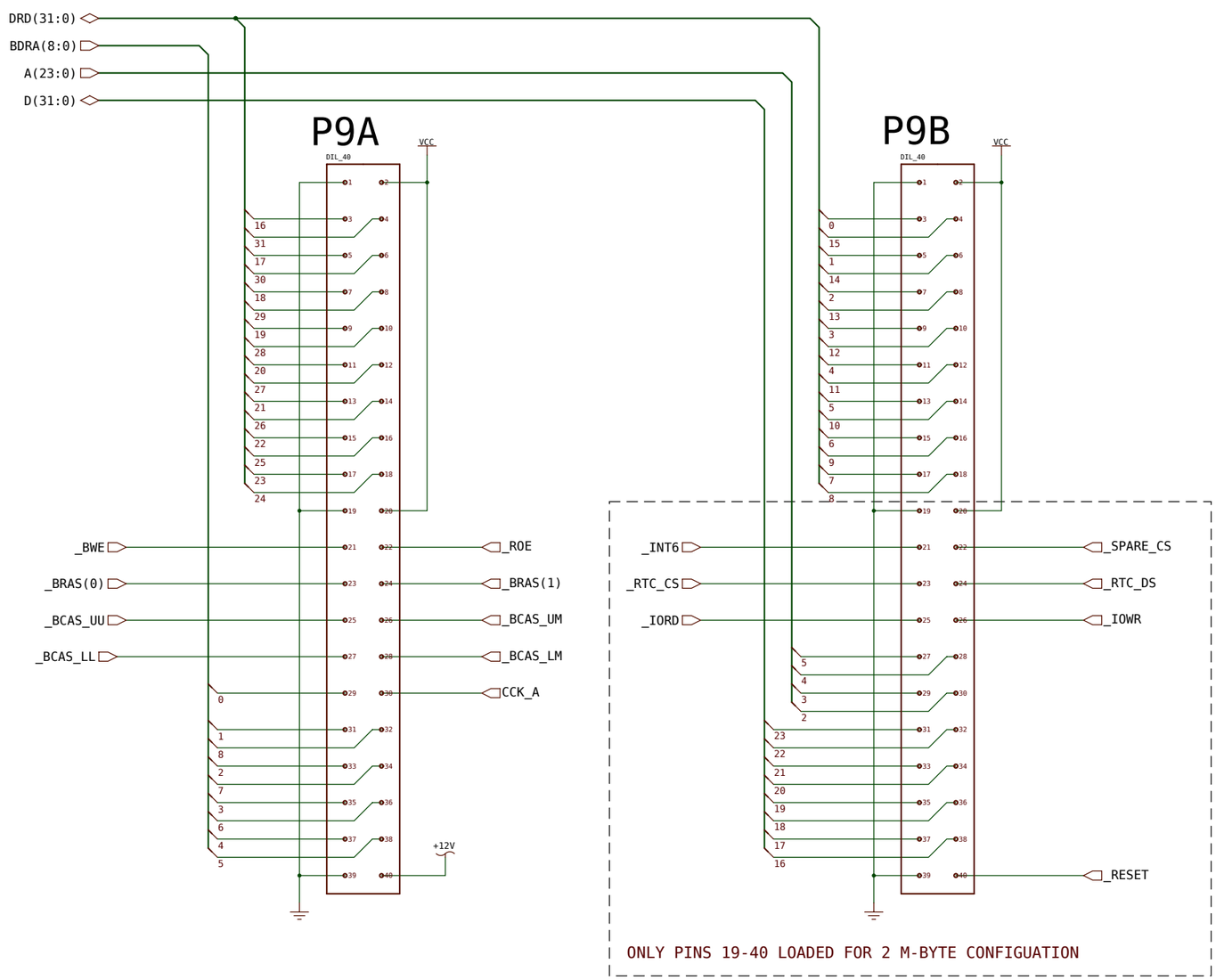
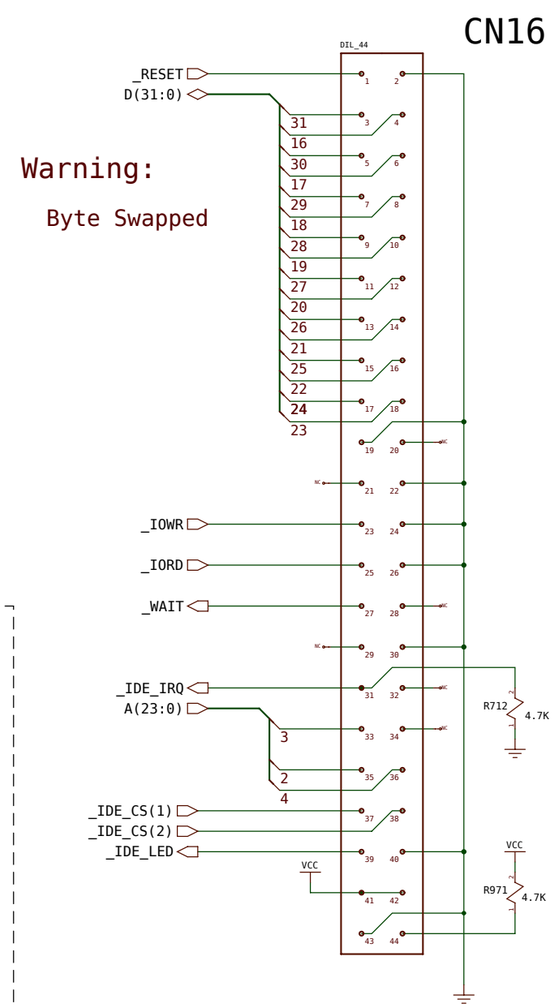
IDE DRIVE

MEMORY EXPANSION





A1200 Rev 2 PCB

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MEMORY EXPANSION AND THE IDE DRIVE

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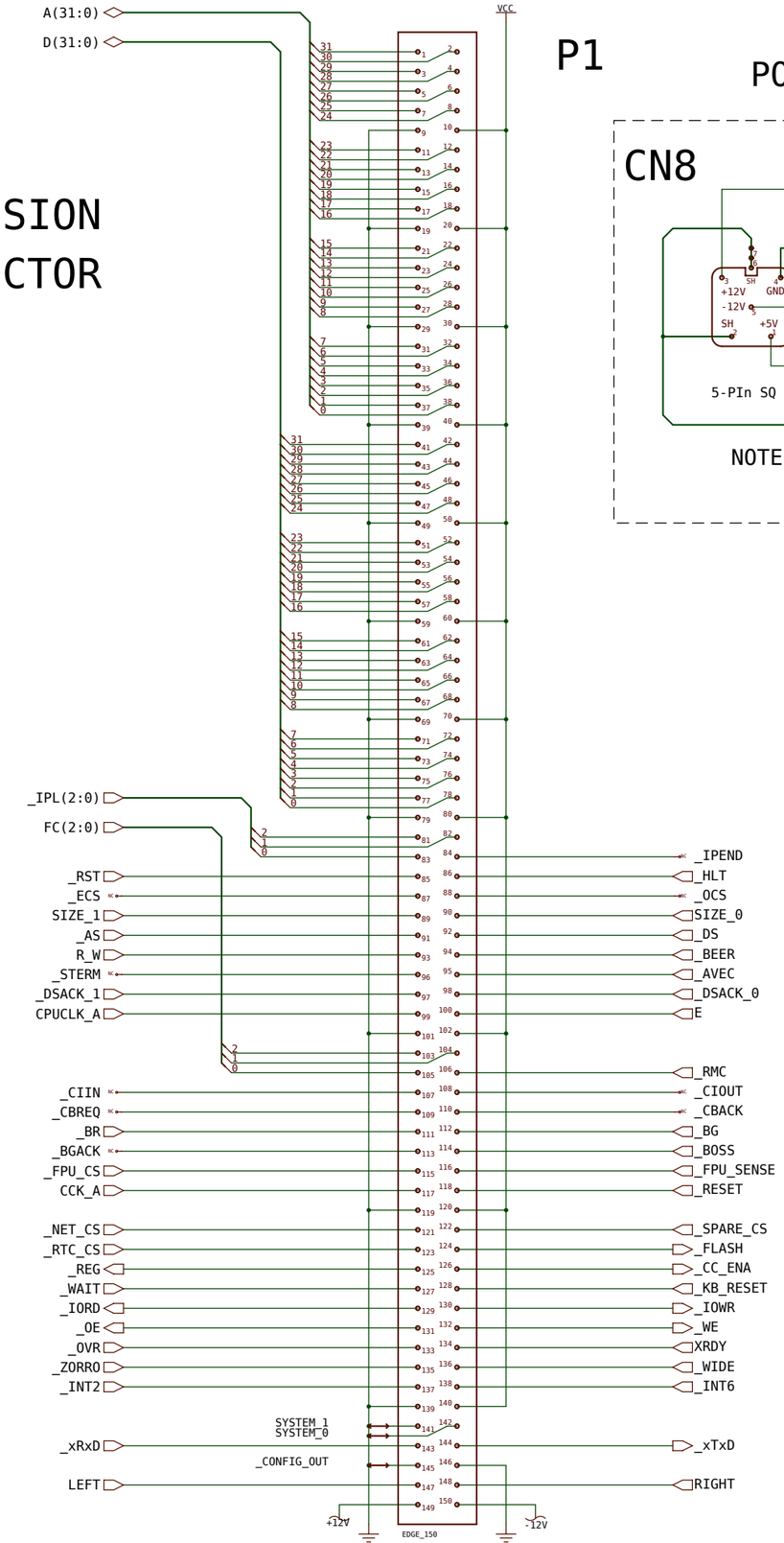
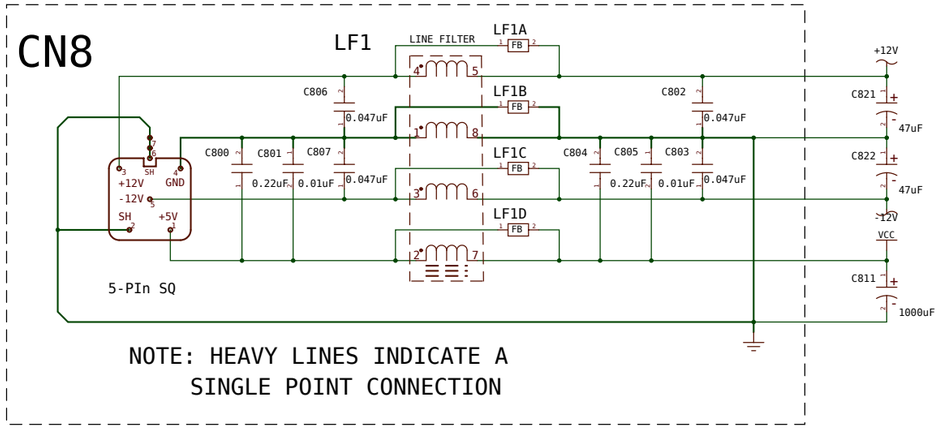
DESIGN BY: G. Robbins	DATE 01/15/92	Commodore
DRAW: GRR	01/15/92	Schematic A1200 R2
LAST: BAF	01/15/92	C/A1200 Main Board "Channel Z"
CHKD:		
APPR:		
USED ON: C/A1200	NEXT ASSY 365132	SIZE C 365133 REV A
		SCALE SHEET 12 OF 13

PATH: /project/a300/channel_z.rev2 sheet12

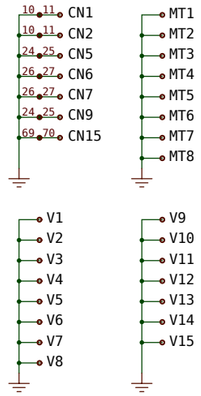
EXPANSION CONNECTOR



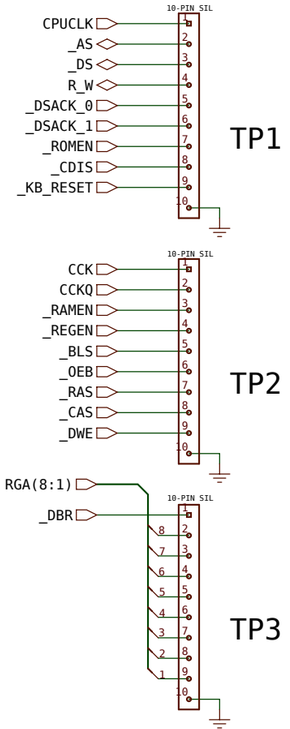
POWER INPUT FILTER



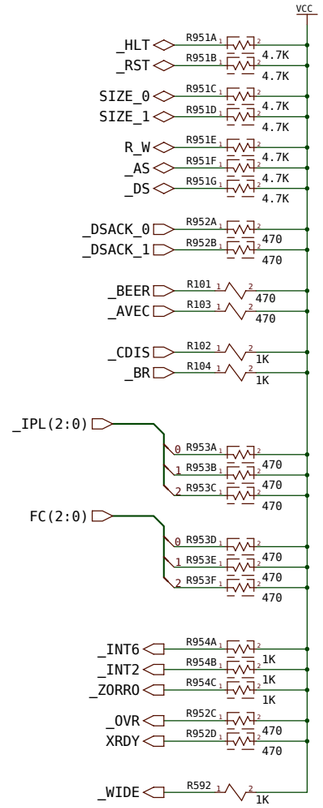
HOLES &c.



TEST ACCESS



TERMINATION



System Configuration Bits

SYSTEM	1	0	CPU/CPUCLK
	0	0	EC020/14MHz
	0	1	020/14MHz
	1	0	030/14MHz
	1	1	030/>14MHz

POWER DISTRIBUTION AND DECOUPLING

A1200 Rev 2 PCB

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DESIGN BY: L. Robbins	DATE 01/11/92	Commodore	
DRAW: GRB	01/11/92	Schematic A1200 R2	
LAST: BAF	01/11/91	C/A1200 Main Board "Channel Z"	
CHKD:			
APPR:			
USED ON	NEXT ASSY		
C/A1200	365132	SIZE C 365133	REV A
		SCALE	SHEET 13 OF 13

PATH: /project/a300/channel_z.rev2 sheet13

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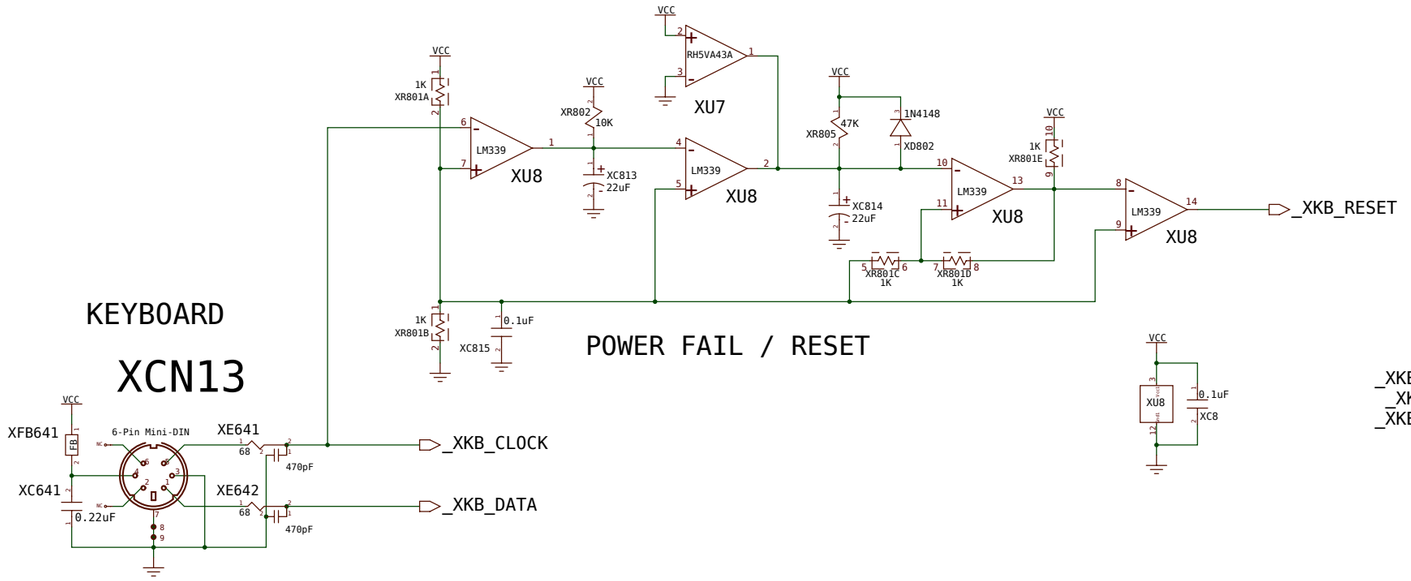
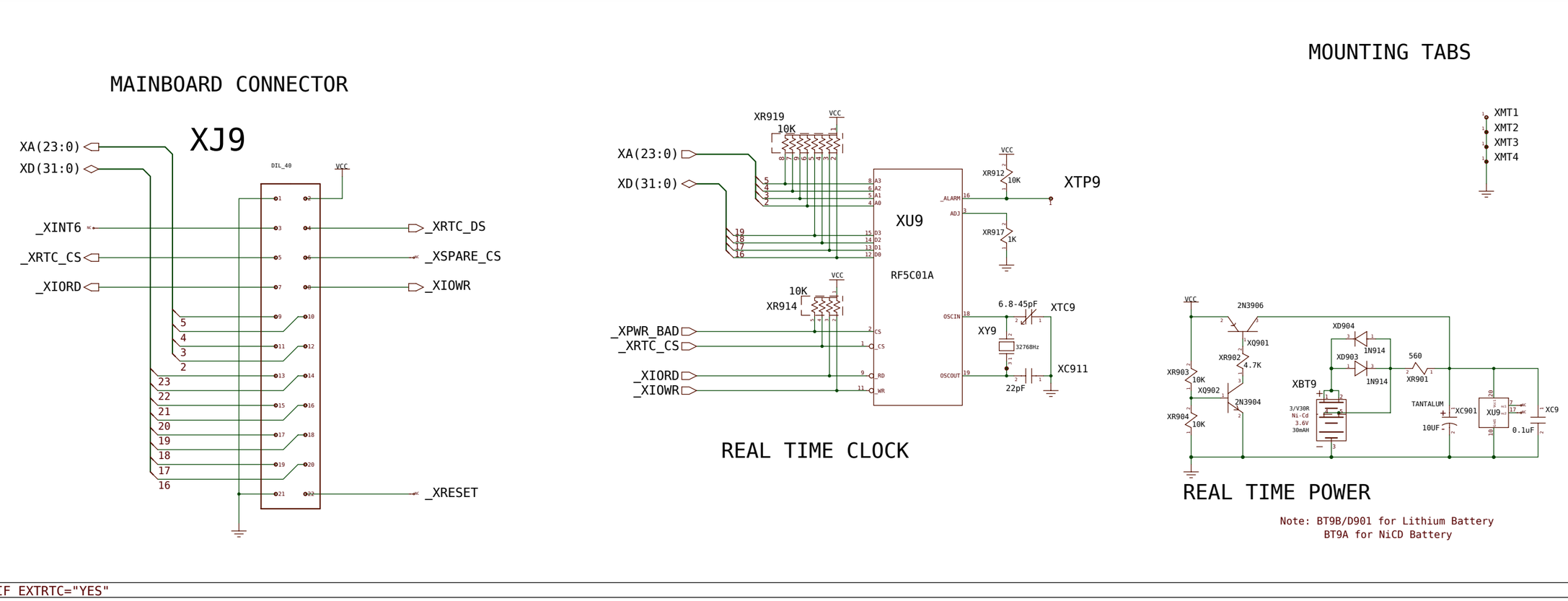


IF KBTEST="YES"



Note: BT9B/D901 for Lithium Battery
BT9A for NiCD Battery

IF EXTRTC="YES"

BREAKAWAY PCB RTC OPTION

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DESIGN BY: G. Robbins	DATE 03/11/92	Commodore
DRAW: GRR	03/31/92	Schematic A1200 R2
LAST: GRR	04/29/92	C/A1200 Main Board "Channel Z"
CHKD:		
APPR:		
USED ON: C/A1200	NEXT ASSY 364718	SIZE C 364717 REV 2
		SCALE SHEET 14 OF 13

PATH: /project/a300/channel z.rev2 sheet13

A1200 Rev 2 PCB

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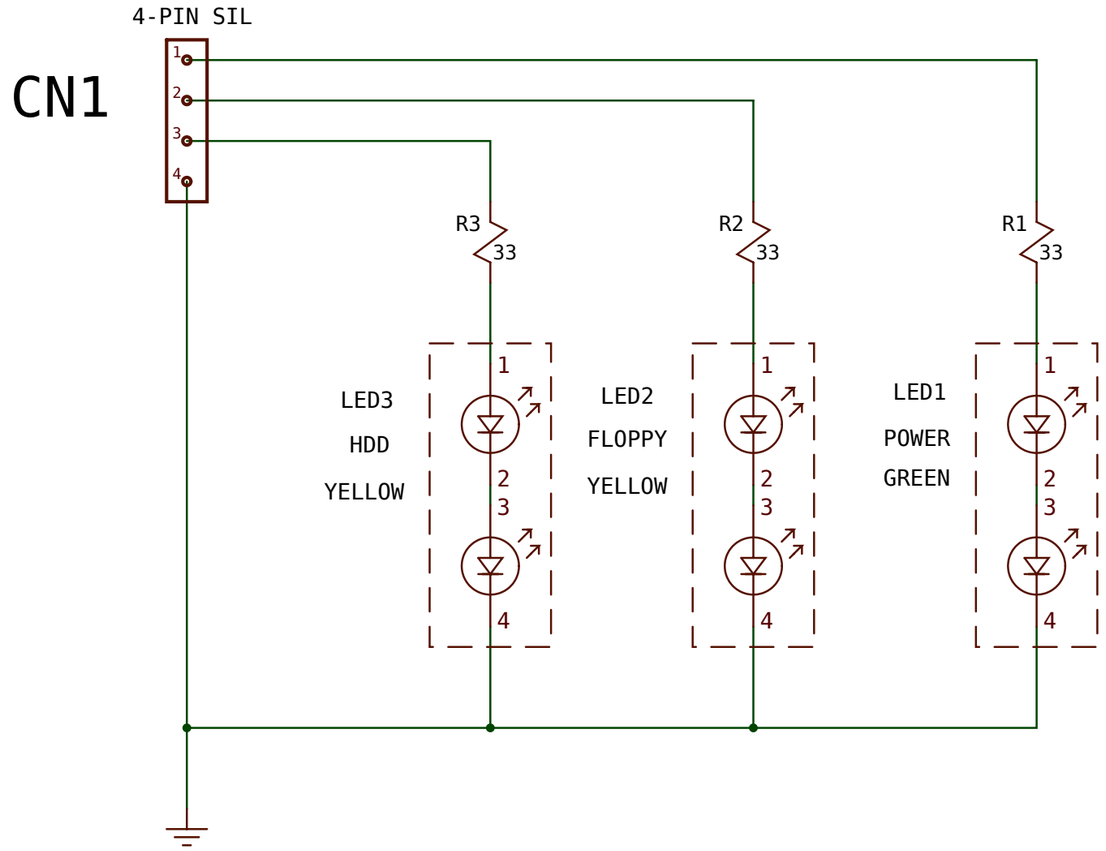
	REVISIONS			
REV	DESCRIPTION	DATE	APRVL	MANAGER
1	ADVANCE ENGINEERING RELEASE			



A1200 LED PCB ASSEMBLY REV1

SHINE ON, SHINE ON

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DESIGN BY:	DATE
B. FENIMORE	7/21/92
DRAW: BAF	7/21/92
LAST: BAF	7/21/92
CHKD:	
APPR:	

USED ON	NEXT ASSY
A1200	364963

Commodore
SCHEMATIC
A1200 LED ASSY

SIZE		REV
A	364966	1

SCALE | SHEET 1 OF 1

PATH: /user/fenimore/AA600/led_assy sheet1

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