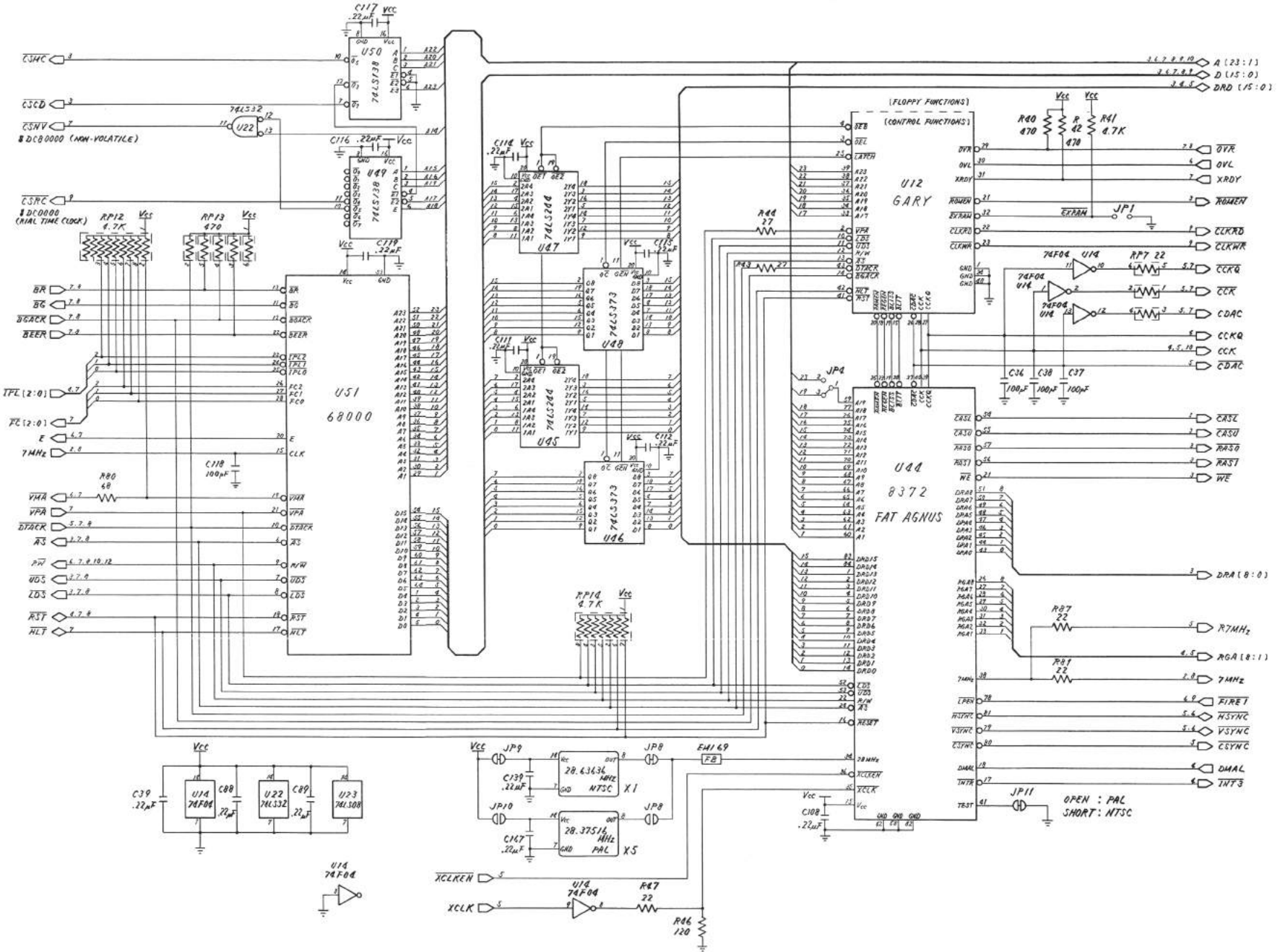
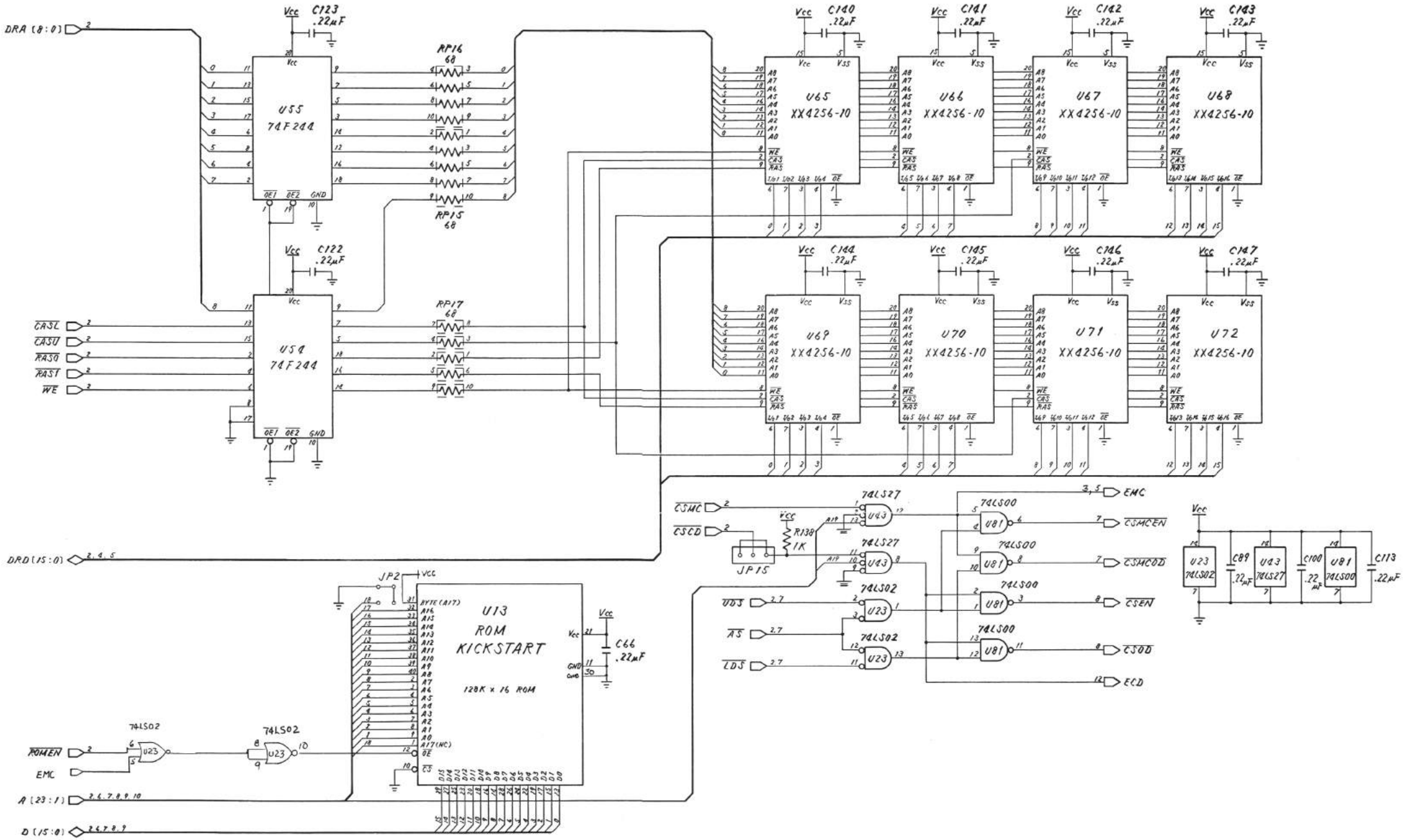
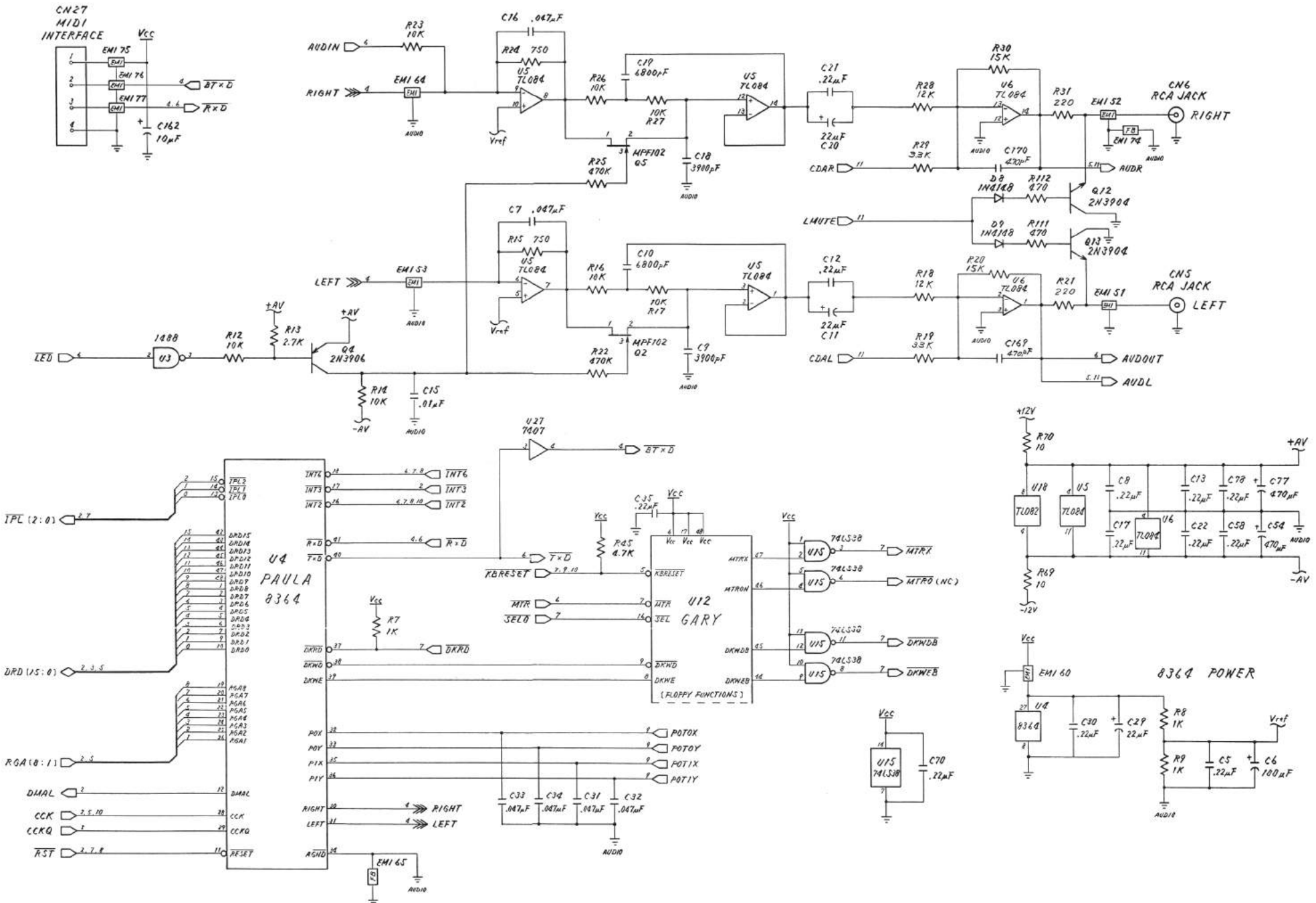
SIGNAL	DESCRIPTION
28MHZ	28.63636 MHz(NTSC)/28.37516 MHz(PAL) Master Clock
7MHZ	7 MHz Processor Clock
A[23:1]	Processor Address (68000)
ACK	Data Acknowledge (Parallel)
AS	Address Strobe (68000)
AUDIN	Audio Input (RS232 jack)
AUDOUT	Audio Output (RS232 jack)
BEER	Bus Error (68000)
BG	Bus Grant (68000)
BGACK	Bus Grant Acknowledge (68000)
BLISS	Blitter Slowdown (chips)
BLIT	Chip Memory Access (chips)
BR	Bus Request (68000)
BUSY	Device Busy (parallel)
CASL/CASU	CAS lower/upper byte (DRAM)
CCK	Color Clock aka C1 (chips)
CCKQ	Color Clock Quadrature aka C3 (chips)
CDAC	7 MHz Quatrature Clock
CHNG	Media Change (floppy)
CLKRD/CLKWR	Real-time Clock Read/Write
CSYNC	Composite Sync (video)
CTS	Clear to Send (rs232)
D[15:0]	Processor Data (68000)
DIR	Direction (floppy)
DKRD	Diskette Read Data (floppy)
DKWDB	Diskette Write Data (floppy)
DKWEB	Diskette Write Enable (floppy)
DMAL	Chip DMA Request (chips)
DRA[8:0]	DRAM Address (DRAM, chips)
DRD[15:0]	DRAM Data (DRAM, chips)
DSR	Data Set Ready (rs232)
DTACK	Data Transfer Acknowledge (68000)
DTR	Data Terminal Ready (rs232)
E	Peripheral E Clock (68000)
EXRAM	Expansion Memory Present
FC[0:0]	Function Control (68000)
FIRE0/FIRE1	Fire Button (joysticks)
HLT	Processor Halt (68000)
HSYNC	Horizontal Sync (video)
INDEX	Diskette Index Hole (floppy)
INT[2,3,6]	Interrput Requests (chips)
IORESET	I/O Reset
IPL[2:0]	Processor Interrupt Requests (68000)
KBCLOCK	Keyboard Clock (keyboard)
KBDATA	Keyboard Data (keyboard)
KBRESET	Keyboard Reset (keyboard)
LDS/UDS	Upper/Lower Data Strobe (68000)
LED	Power On LED

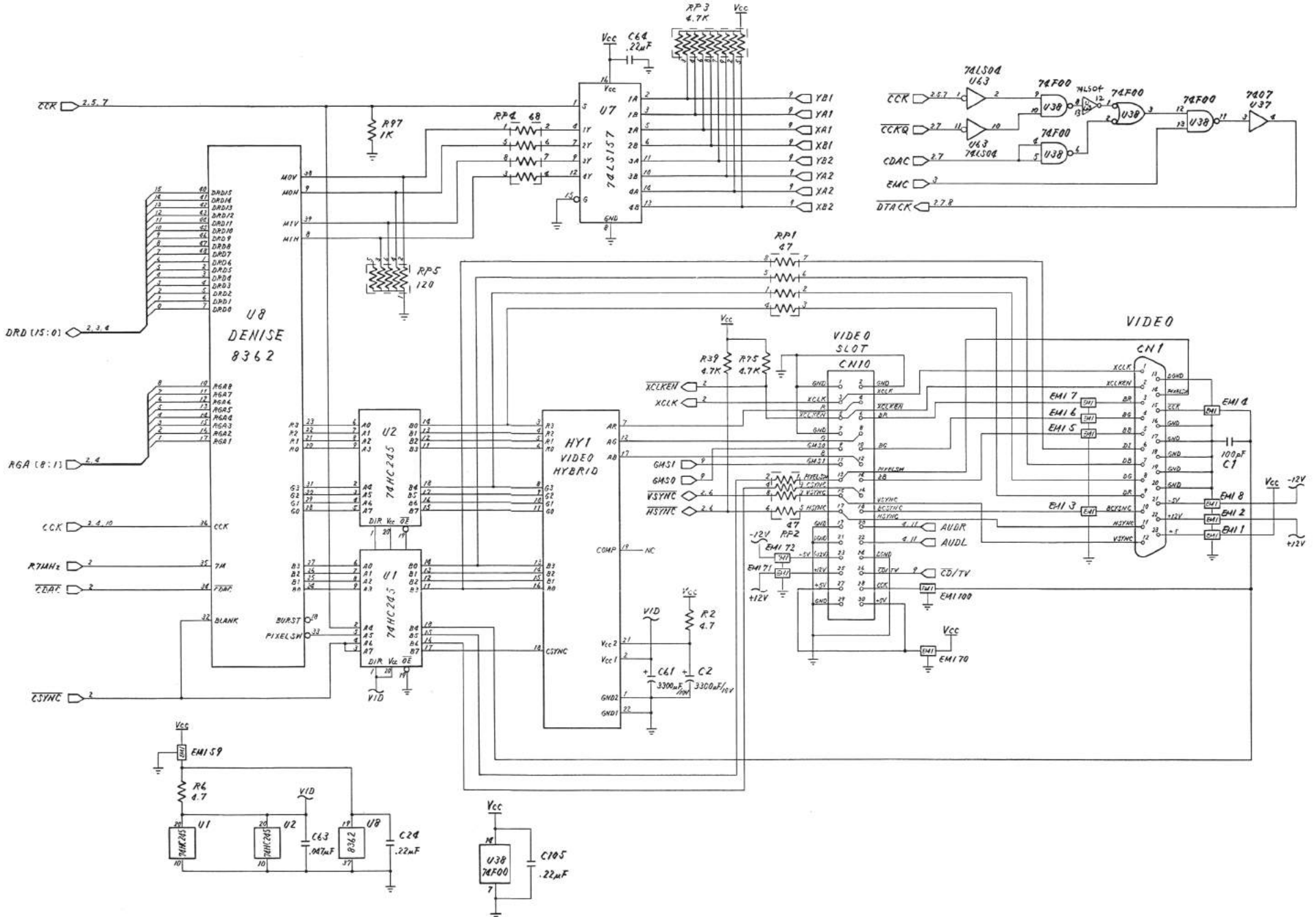
SIGNAL	DESCRIPTION
LEFT/RIGHT	Audio Channels
MTR	Motor On (floppy)
MTR0	Motor On Drive (floppy)
M0V/M0H	Mouse Quadrature Signals (joysticks)
M1V/M1H	Mouse Quadrature Signals (joysticks)
OVL	Overlay ROM over RAM
OVR	Override System Decodeing
PIXELSW	Pixel Switch (video)
POT0X/POT0Y	Pot Lines (joysticks)
POT1X/POT1Y	Pot Lines (joysticks)
POUT	Paper Out (parallel)
PPD[7:0]	Parallel Port Data (parallel)
RAMEN	RAM Enable (chips)
REGEN	Chip Register Enable (chips)
RAS0/RAS1	RAS Internal/Expansion Lines (DRAM)
RDY	Drive Ready (floppy)
RESET	General Reset
RGA[8:1]	Register Address Bus (chips)
RI	Ring Indicate (rs232)
ROMEN	ROM Enable
RTS	Request to Send (rs232)
RST	Processor Reset (68000)
RXD	Receive Data (RS232)
RW	Processor Read/Write (68000)
SEL	Select (parallel)
SEL[3:0]	Drive Select (floppy)
SIDE	Side Select (floppy)
STEP	Head Step Command (floppy)
TRK0	Track 0 Sense (floppy)
TXD	Transmit Data (RS232)
VMA	Valid Memory Address (68000)
VPA	Valid Peripheral Address (68000)
VSYNC	Vertic1 Sync (video)
WE	Write Enable (DRAM)
WPROT	Write Protect Sense (floppy)
XCLK	External 28 MHz Clock (genlock)
XCLKEN	External Clock Enable (genlock)
XRDY	External Data Ready
AUDL/AUDR	Amiga Audio Left/Right
AEMP	Audio Deemphasis
AUPLY	CD Audio Play
BAS	Buffered Address Strobe
BCLK	CD Audio Clock
BCSMCEN/BCSMCOD	Buffered Chip Select Memory Card Even/Odd
BRW	Buffered Processor Read/Write
BSEN	Logic Voltage Sense
BTXD	Buffer Transmit Data (Midi)
BLDS/BUDS	Buffered Upper/Lower Data Strobe

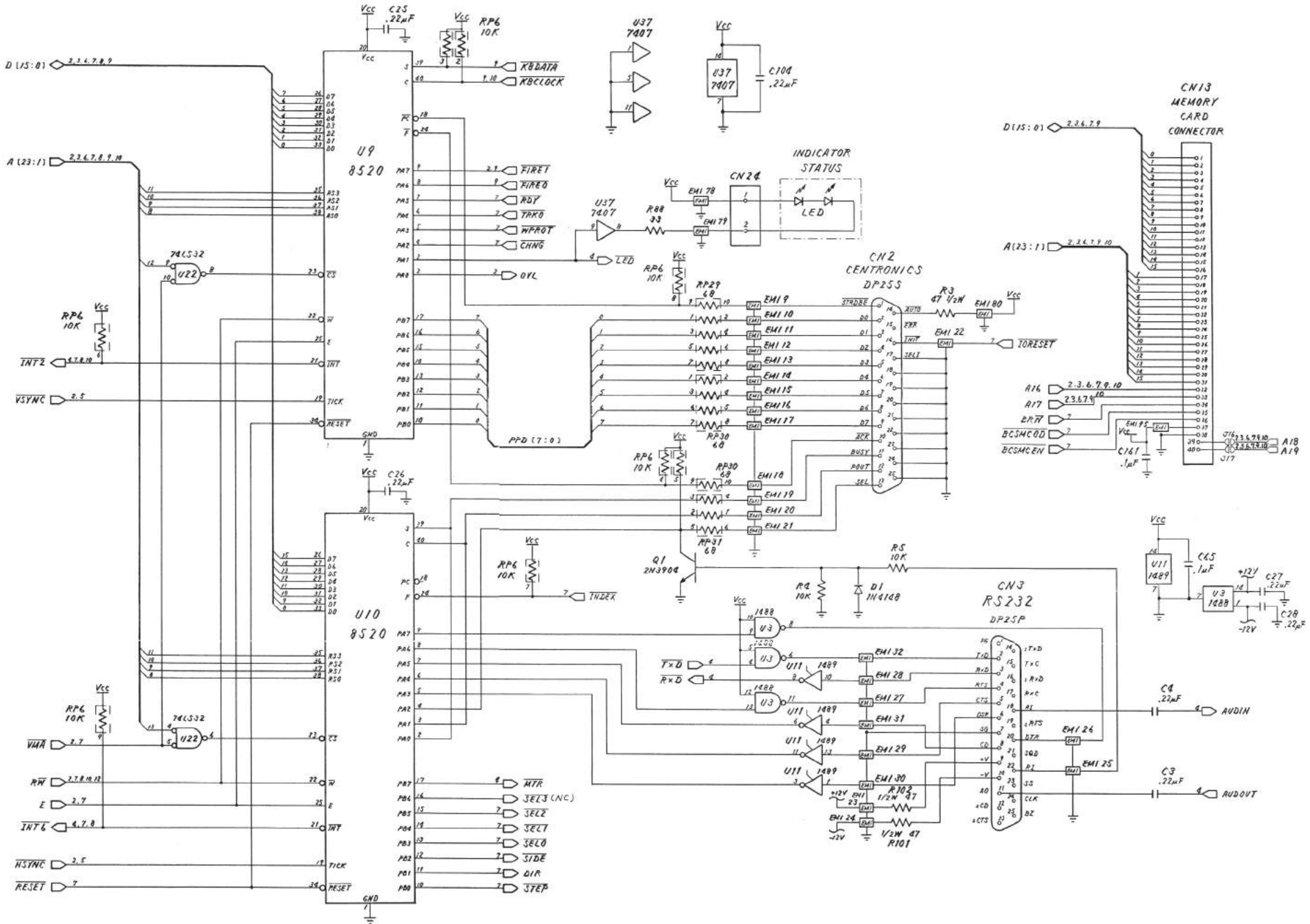
SIGNAL	DESCRIPTION
C16M	16MHz Dac Clock
CDAL/CDAR	CD Audio Left/Right
CD/TV	Select CD/TV (see INCD)
CONFIGIN	Config In
CONFIGOUT	Config Out
CSCD	Chip Select CDROM Driver
CSEN/CSOD	Chip Select CDROM Driver Even/Odd
CSMC	Chip Select Memory Card
CSMCEN/CSMCOD	Chip Select Memory Card Even/Odd
CSNV	Non-Volatile Memory Select
CSRC	Real Time Chip Select
CSX0	XT Device Chip Select No.0
DACATT	Attinator Data (Dac)
DACLCH	Attinator Latch (Dac)
DACST	Attinator Strobe (Dac)
DATA	CD Audio Data
DMCD	Dmac Dma Data
EOP.CSX1	End of Process/XT Device Chip Select No.1
GMS[1:0]	Genlock Mode Select (Remote Control)
IFRST	Interface Reset
INAC	Indicator Power/Status
INCD	Indicator CD/TV Mode
INTD	CD Drive Reset
INTS	SCSI Interrupt
IOR/IOW	Dmac Read/Write
KBSE	Keyboard Sense
LMUTE	Line Mute
LRCLK	Audio Left/Right Clock
MPS	Power Sense (Logic)
MS(1:0)	Genlock Mode Select (Amiga)
MUTE	CD Mute
POWER	Main Logic Power On/Off
SD(7:0)	Dmac XT/SCSI Data
VCK	Attinator Data Clock (Head Phone)
VDATA	Attinator Data Clock (Head Phone)
VF(2:1)	Filament Voltage
VST	Attinator Data Clock (Head Phone)
VPP	-30V Voltage
XA,YA,XB,YB[2:1]	Mouse Input Signal
XDACK	XT Device Data Acknowledge
XDREQ	XT Device Data Requirement
EMC	*ENABLE MEMORY CARD*
ECD	*ENABLE CDROM DRIVER (ROM)*
WEPROM	*WRITE ENABLE E^2 PROM*

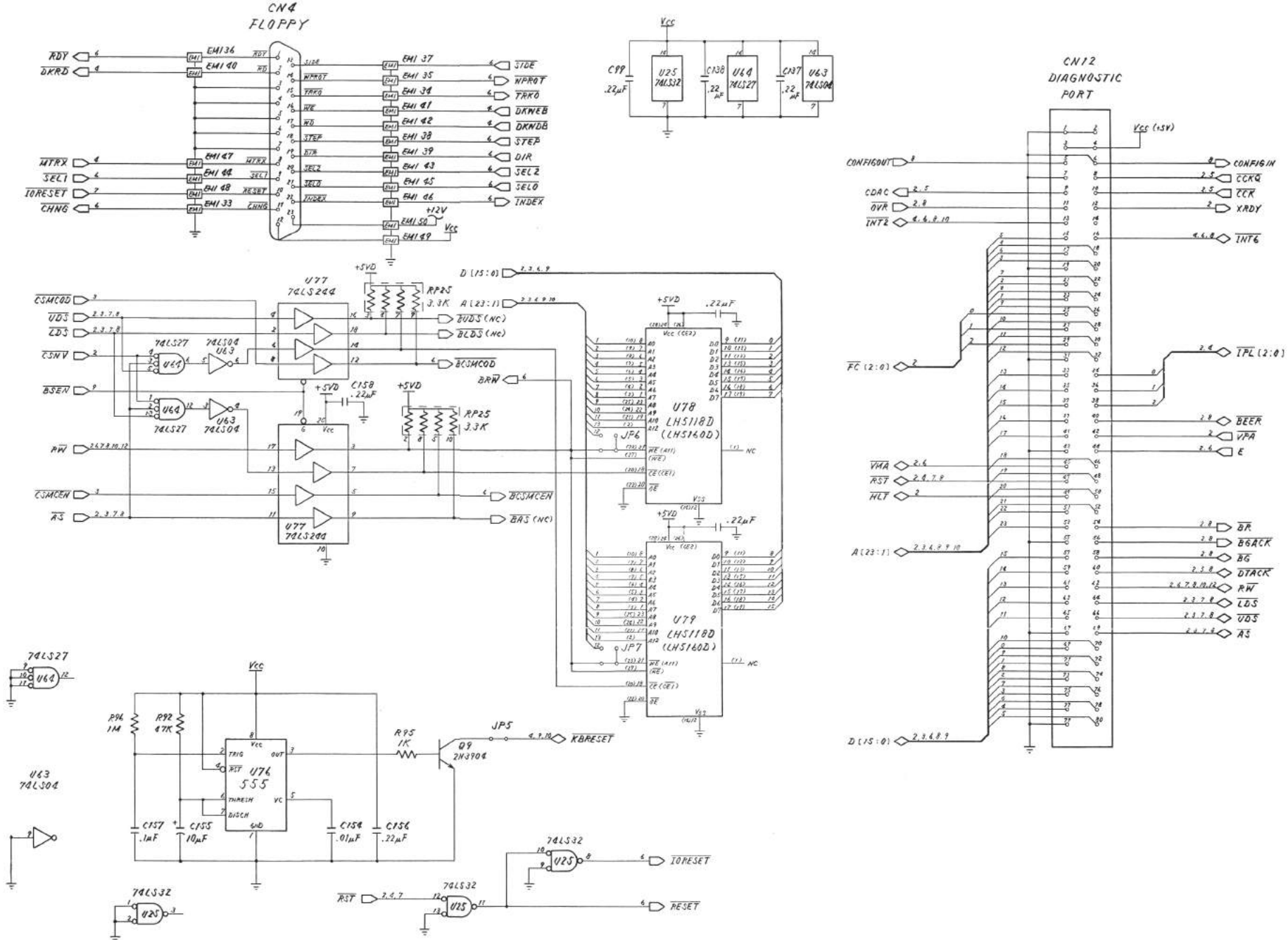

U50
74LS138
U49
74LS138
74LS32
U22
U47
74LS244
U48
74LS373
U45
74LS244
U46
74LS373
U51
68000
U12
GARY
U44
8372
FAT AGNUS
(FLOPPY FUNCTIONS)
(CONTROL FUNCTIONS)
U14
74F04
U22
74LS32
U23
74LS08
28.63636 MHz NTSC X1
28.37516 MHz PAL X5
JP1
JP4
JP8
JP9
JP10
JP11
OPEN : PAL
SHORT: NTSC
RP12 4.7K
RP13 470
RP14 4.7K
R40 470
R41 4.7K
R42 470
R43 27
R44 27
R46 120
R47 22
R80 68
R81 22
R87 22
C36 100pF
C37 100pF
C38 100pF
C39 .22µF
C88 22µF
C89 .22µF
C108 .22µF
C111 .22µF
C112 .22µF
C113 .22µF
C114 .22µF
C116 .22µF
C117 .22µF
C118 100pF
C139 .22µF
C147 .22µF
C779 .22µF
EM169
FB
$DC0000 (RTAL TIME CLOCK)
$DC8000 (NON-VOLATILE)
CSHC
CSCD
CSNV
CSRC
BR
BG
BGACK
BEER
IPL[2:0]
FC[2:0]
E
7MHz
VMA
VPA
DTACK
AS
RW
UDS
LDS
RST
HLT
A[23:1]
D[15:0]
DRD[15:0]
OVR
OVL
XRDY
XRAM
CLKRD
CLKWR
CCKQ
CCK
CDAC
CASL
CASU
RASO
RAS1
WE
DRA[8:0]
RGA[8:1]
R7MHz
7MHz
FIRE1
HSYNC
VSYNC
CSYNC
DMAL
INT3
XCLKEN
XCLK

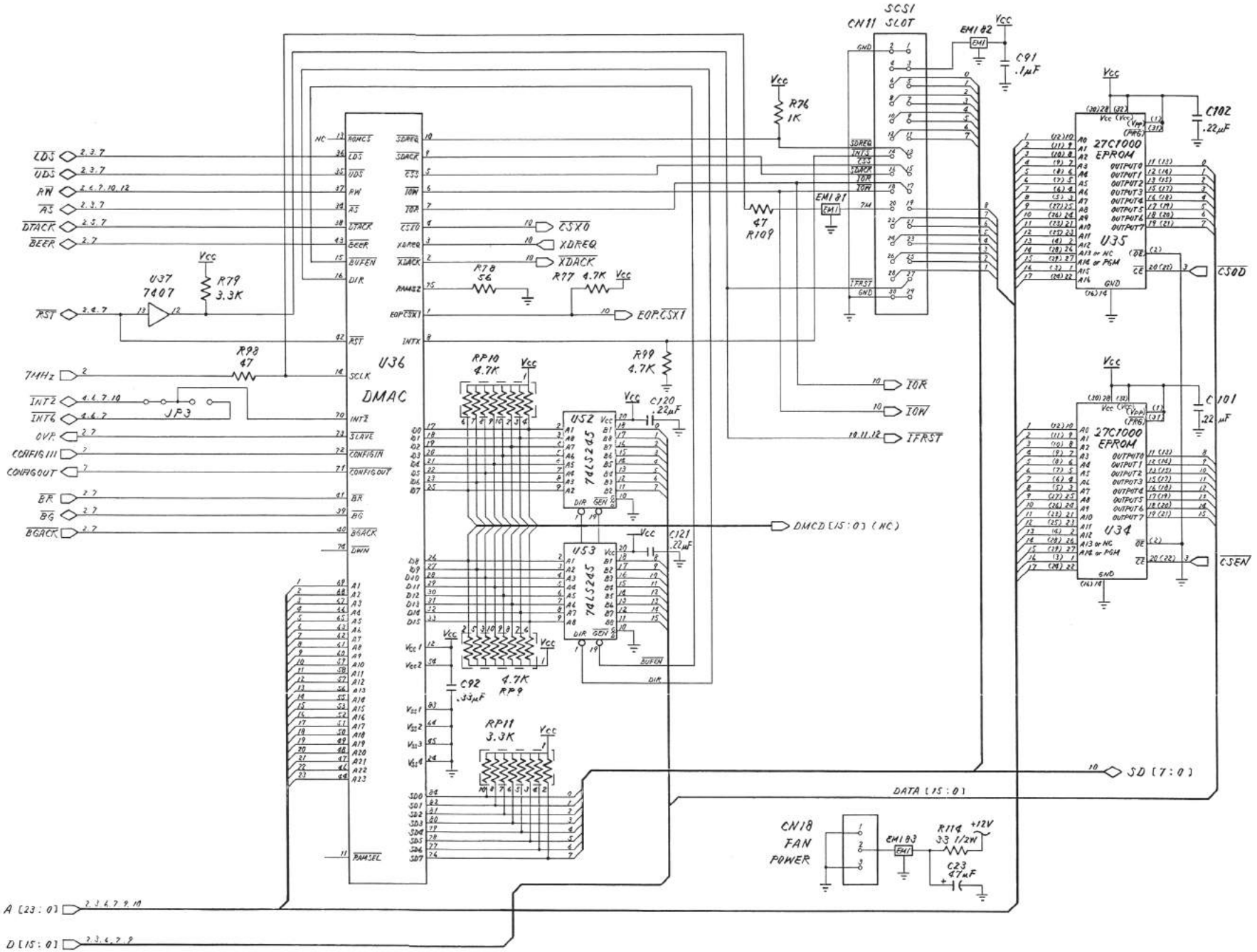

DRA (8:0)
U55 74F244
U54 74F244
RP16 68
RP15 68
RP17 68
C123 .22µF
C122 .22µF
C140 .22µF
C141 .22µF
C142 .22µF
C143 .22µF
C144 .22µF
C145 .22µF
C146 .22µF
C147 .22µF
U65 XX4256-10
U66 XX4256-10
U67 XX4256-10
U68 XX4256-10
U69 XX4256-10
U70 XX4256-10
U71 XX4256-10
U72 XX4256-10
CASL
CASU
RASO
RAST
WE
DRD (15:0)
JP2
U13 ROM KICKSTART
128K x 16 ROM
C66 .22µF
74LS02
ROMEN
EMC
A (23:1)
D (15:0)
CSMC
CSCD
JP15
R138 1K
74LS27
74LS00
UDS
AS
LDS
EMC
CSMCEN
CSMCOD
CSEN
CSOD
ECD
C89 .22µF
C100 .22µF
C113 .22µF

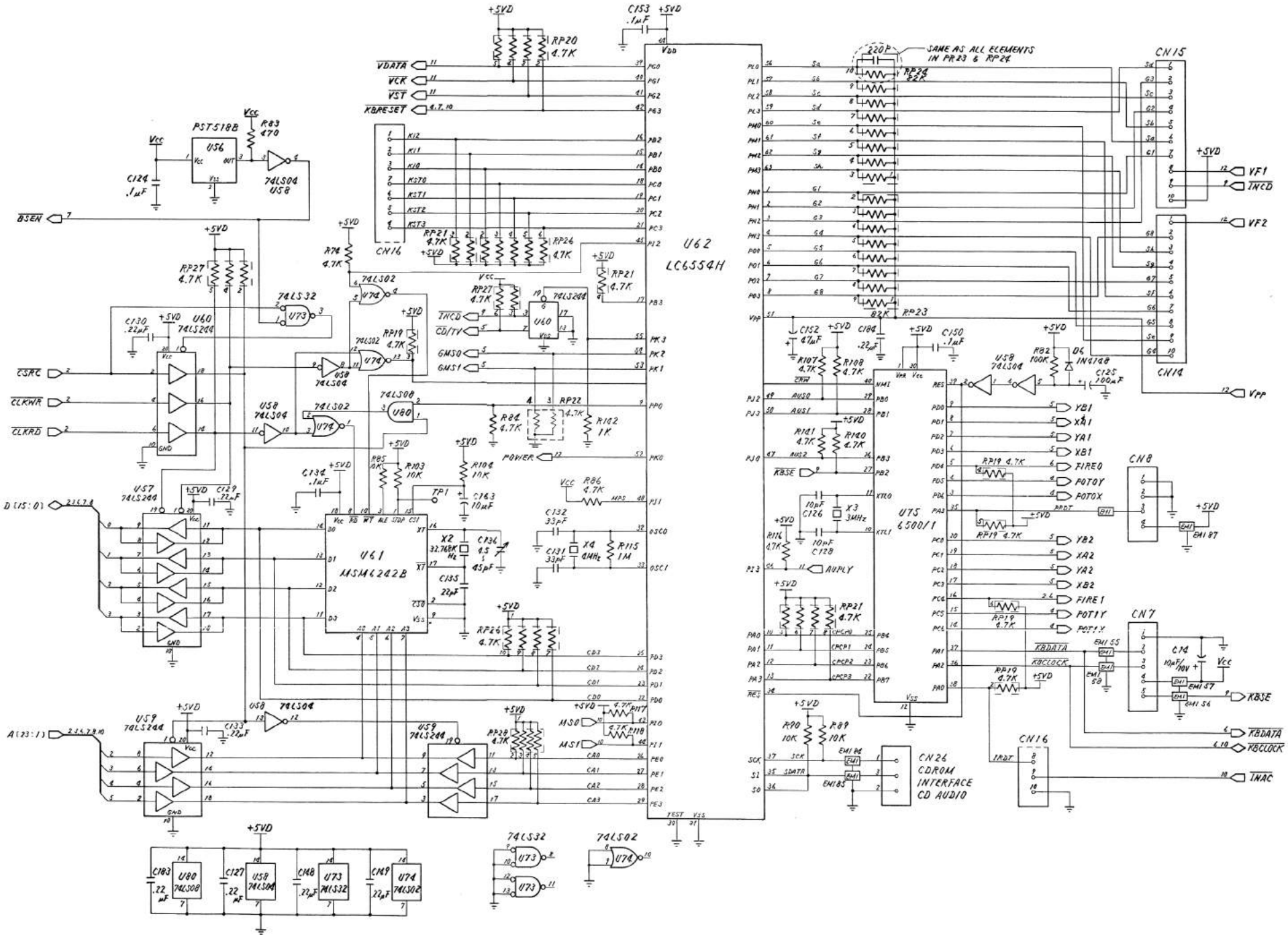

CN27
MIDI
INTERFACE
Vcc
EMI 75
EMI 76
EMI 77
C162
10µF
BT×D
R×D
AUDIN
RIGHT
R23
10K
EMI 64
C16 .047µF
R24 750
U5
TL084
Vref
R26
10K
C19
6800pF
10K
R27
MPF102
Q5
C18
3900pF
R25
470K
U5
TL084
C21
.22µF
22µF
C20
R28
12K
R30
15K
U6
TL084
R31
220
EMI 52
CN6
RCA JACK
RIGHT
F8
EMI 74
C170
470pF
CDAR
R29
3.3K
AUDR
D8
IN4148
R112
470
Q12
2N3904
LMUTE
D9
IN4148
R111
470
Q13
2N3904
LEFT
EMI 53
C7 .047µF
R15 750
R16
10K
C10
6800pF
10K
R17
MPF102
Q2
C9
3900pF
R22
470K
C12
.22µF
22µF
C11
R18
12K
R20
15K
R21
220
EMI 51
CN5
RCA JACK
LEFT
CDAL
R19
3.3K
C169
470pF
AUDOUT
AUDL
LED
1488
U3
R12
10K
R13
2.7K
+AV
Q4
2N3906
R14
10K
C15
.01µF
-AV
U27
7407
BT×D
U4
PAULA
8364
INT6
INT3
INT2
R×D
T×D
DKRD
DKWD
DKWE
POX
POY
PIX
PIY
RIGHT
LEFT
AGND
EMI 65
IPL (2:0)
DRD (15:0)
RGA (8:1)
DMAL
CCK
CCKQ
RST
U12
GARY
(FLOPPY FUNCTIONS)
KBRESET
MTR
SEL0
R45
4.7K
R7
1K
C35
.22µF
MTRX
MTRO (NC)
DKWDB
DKWEB
74LS38
U15
POTOX
POTOY
POTIX
POTIY
C33
.047µF
C34
.047µF
C31
.047µF
C32
.047µF
C70
.22µF
+12V
-12V
R70
10
R69
10
U18
TL082
U5
TL084
U6
TL084
C8
.22µF
C17
.22µF
C13
.22µF
C22
.22µF
C78
.22µF
C58
.22µF
C77
470µF
C54
470µF
AUDIO
8364 POWER
EMI 60
U4
8364
C30
.22µF
C29
22µF
R8
1K
R9
1K
C5
.22µF
C6
100µF
Vref

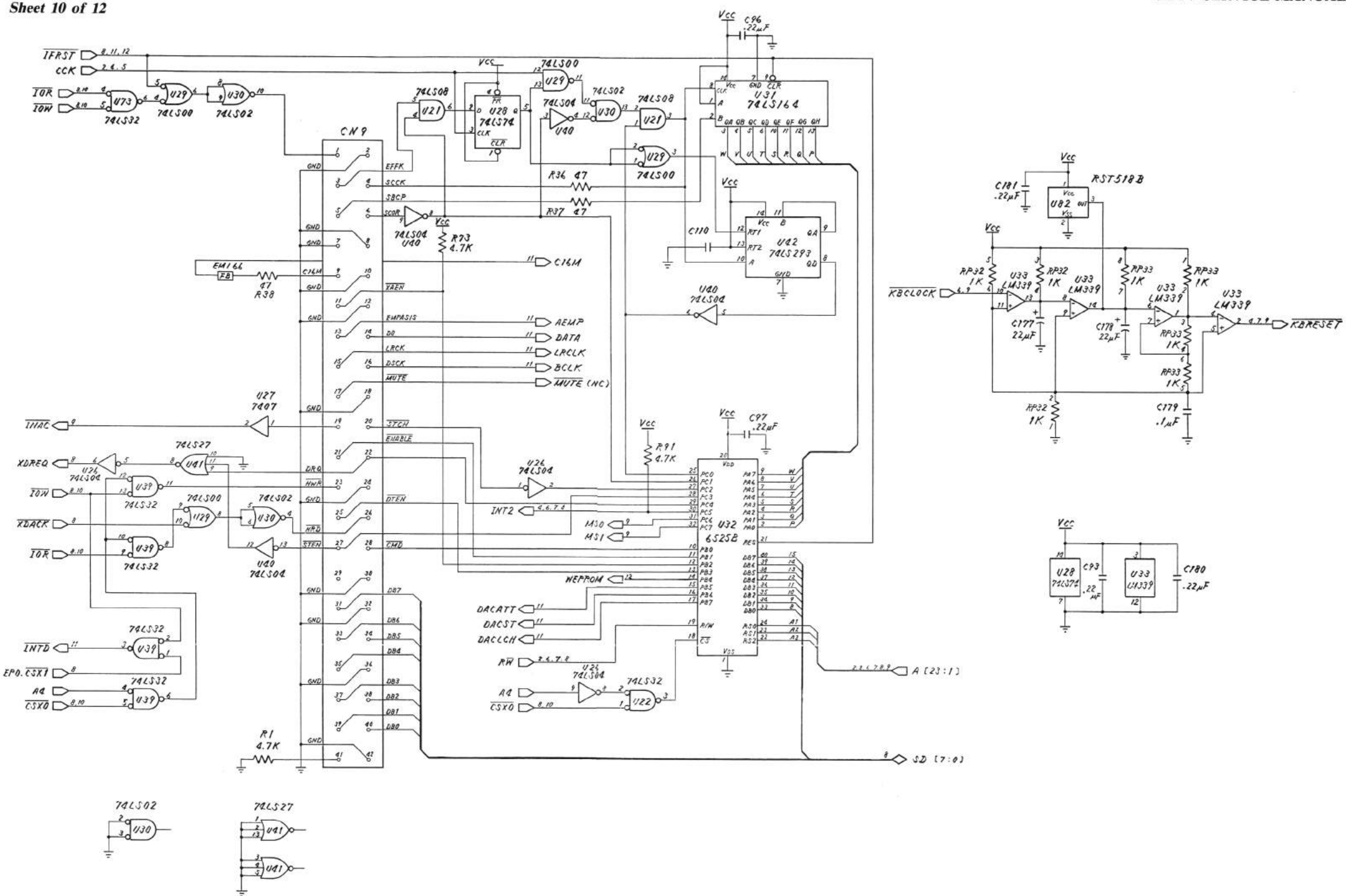

U8
DENISE
8362
U7
74LS157
U1
74HC245
U2
74HC245
HY1
VIDEO
HYBRID
VIDEO
SLOT
CN10
VIDEO
CN1
74LS04
U63
74F00
U38
7407
U37
DRD(15:0)
RGA(8:1)
CCK
R7MHz
CDAC
CSYNC
BLANK
BURST
PIXELSW
XCLKEN
XCLK
GMS1
GMS0
VSYNC
HSYNC
VID
COMP
AUDR
AUDL
CD/TV
EMI100
EMI70
EMI59
EMI72
EMI71
EMI1
EMI2
EMI3
EMI5
EMI6
EMI7
EMI8
RP1
4.7
RP2
4.7
RP3
4.7K
RP4
68
RP5
120
R97
1K
R39
4.7K
R75
4.7K
R2
4.7
R6
4.7
C61
3300pF
C2
3300pF/10V
C63
.047μF
C64
.22μF
C24
.22μF
C105
.22μF
C1
100pF
Vcc
-12V
+12V
DTACK
EMC

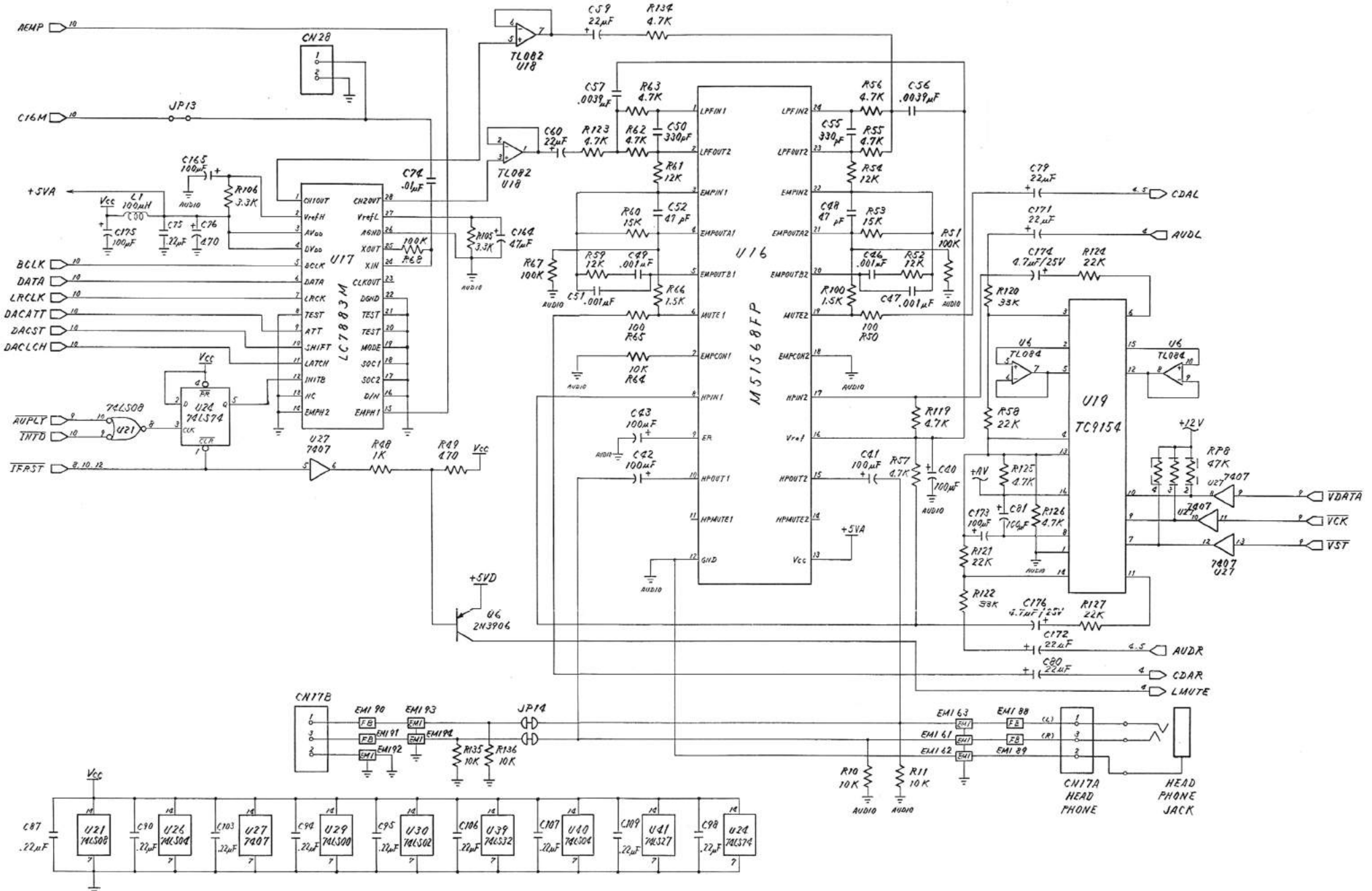

U9
8520
U10
8520
U37
7407
CN13
MEMORY
CARD
CONNECTOR
CN24
INDICATOR
STATUS
LED
CN2
CENTRONICS
DP25S
CN3
RS232
DP25P
Q1
2N3904
D1
1N4148
R5
10K
R3
47 1/2W
R88
33
C104
.22µF
C25
.22µF
C26
.22µF
C65
.1µF
C27
.22µF
C28
.22µF
C4
.22µF
C3
.22µF
C161
.1µF
RP6
10K
RP29
6B
RP30
6B
RP31
6B
U22
74LS32
U11
1489
U3
1488
R102
1/2W 47
R101
1/2W 47
D[15:0]
A[23:1]
INT2
VSYNC
VMA
RW
E
INT6
HSYNC
RESET
KBDATA
KBCLOCK
FIRE1
FIRE0
RDY
TRK0
WPROT
CHNG
OVL
LED
INDEX
MTR
SEL3 (NC)
SEL2
SEL1
SEL0
SIDE
DIR
STEP
TXD
RXD
AUDIN
AUDOUT
A18
A19
+12V
-12V
GND
Vcc

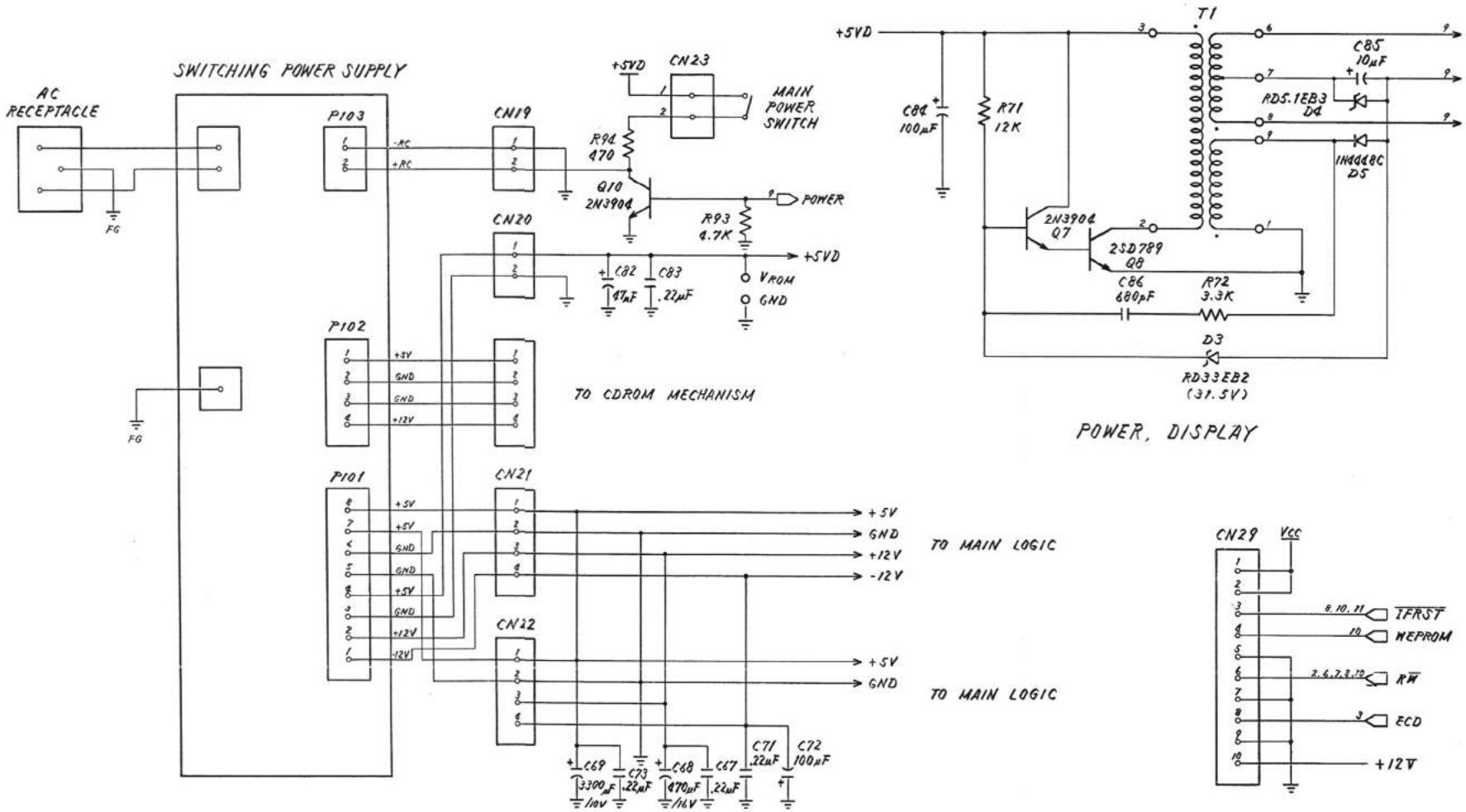

CN4
FLOPPY
CN12
DIAGNOSTIC
PORT
U77
74LS244
U78
LH5118D
(LH5160D)
U79
LH5118D
(LH5160D)
U76
555
U63
74LS04
U64
74LS27
U25
74LS32
RP25
3.3K
JP6
JP7
JP5
Q9
2N3904
Vcc (+5V)
+5VD
+12V
.22µF
.1µF
10µF
.01µF
1M
47K
1K
CONFIGOUT
CONFIGIN
CDAC
CCKQ
CCK
OVR
XRDY
INT2
INT6
FC (2:0)
IPL (2:0)
VMA
BEER
RST
VPA
HLT
E
BR
BGACK
BG
DTACK
RW
LDS
UDS
AS
A (23:1)
D (15:0)
RDY
DKRD
WPROT
TRK0
WE
DKWEB
WD
DKWDB
STEP
DIR
SEL3
SEL2
SEL0
SEL1
INDEX
MTRX
RESET
CHNG
IOPRESET
RESET
KBRESET
CSMCOD
UDS
LDS
CSNV
BSEN
RW
CSMCEN
AS
BRW
BCSMCOD
BUDS (NC)
BLDS (NC)
BCSMCEN
BAS (NC)


SCSI
CN11 SLOT
U36
DMAC
U37
7407
U52
74LS245
U53
74LS245
U35
27C1000
EPROM
U34
27C1000
EPROM
CN18
FAN
POWER
LDS
UDS
R/W
AS
DTACK
BEER
RST
7.14Hz
INT2
INT6
OVP
CONFIG IN
CONFIG OUT
BR
BG
BGACK
A [23:0]
D [15:0]
DMACD [15:0] (NC)
SD [7:0]
DATA [15:0]
IOR
IOW
IFRST
CSEN
R76 1K
R77 4.7K
R78 56
R79 3.3K
R98 47
R99 4.7K
R109 47
R114 33 1/2W
C91 .1µF
C92 .33µF
C102 .22µF
C101 .22µF
C120 .22µF
C121 .22µF
C23 47µF
RP10 4.7K
RP11 3.3K
RP9 4.7K
JP3
+12V


U62
LC65534H
U61
MSM6242B
U75
6500/1
CN15
CN14
CN8
CN7
CN16
CN26
CDROM
INTERFACE
CD AUDIO
SAME AS ALL ELEMENTS IN RP23 & RP24
+5VD
VF1
VF2
VPP
YB1
XB1
YA1
XA1
FIRE0
POTOY
POTOX
YB2
XA2
YA2
XB2
FIRE1
POT1Y
POT1X
KBDATA
KBCLOCK
KBSE
INAC
AUPLY
POWER
BSEN
CSRC
CLKWR
CLKRD
D(15:0)
A(23:1)
VDATA
VCK
VST
KBRESET
CD/TV
GMS0
GMS1
MS0
MS1
TP1
X1
32.768KHz
X2
4MHz
X3
3MHz
X4


IFRST
CCK
IOR
IOW
XDREQ
XDACK
INTD
EPO.CSX1
A0
CSX0
INIAC
EMI66
FB
R38 47
CN9
EFFK
SCCK
SBCP
SCOR
R73 4.7K
C16M
XAEN
EMPASIS
DO
LRCK
DSCK
MUTE
STCH
ENABLE
DRQ
HWR
DTEN
HRD
STEN
CMD
DB7
DB6
DB5
DB4
DB3
DB2
DB1
DB0
R1 4.7K
R36 47
R37 47
C110
R91 4.7K
C96 .22µF
C97 .22µF
INT2
MS0
MS1
WEPROM
DACATT
DACST
DACLCH
R/W
CS
A [23:1]
SD [7:0]
KBCLOCK
KBRESET
RST518B
C181 .22µF
C177 22µF
C178 22µF
C179 .1µF
C180 .22µF
C93 .22µF
74LS00
74LS02
74LS04
74LS08
74LS27
74LS32
74LS74
74LS164
74LS293
6525B
LM339
RP32 1K
RP33 1K


AEMP
C16M
JP13
CN28
TL082 U18
C59 22µF
R134 4.7K
C57 .0039µF
R63 4.7K
C60 22µF
R123 4.7K
R62 4.7K
C50 330pF
R61 12K
C74 .01µF
C165 100µF
R106 3.3K
+5VA
L1 100µH
C175 100µF
C75 .22µF
C76 470
R105 3.3K
C164 47µF
R68 100K
BCLK
DATA
LRCLK
DACATT
DACST
DACLCH
U17 LC78883M
CH1OUT
CH2OUT
VrefH
VrefL
AVdd
AGND
DVdd
XOUT
BCLK
XIN
DATA
CLKOUT
LRCK
DGND
TEST
ATT
MODE
SHIFT
SOC1
LATCH
SOC2
INITB
D/N
NC
EMPH1
EMPH2
U16 M51568FP
LPFIN1
LPFOUT2
EMPIN1
EMPOUTA1
EMPOUTB1
MUTE1
EMPCON1
HPIN1
ER
HPOUT1
HPMUTE1
GND
LPFIN2
LPFOUT2
EMPIN2
EMPOUTA2
EMPOUTB2
MUTE2
EMPCON2
HPIN2
Vref
HPOUT2
HPMUTE2
Vcc
R56 4.7K
C56 .0039µF
C55 330pF
R55 4.7K
R54 12K
C48 47 pF
R53 15K
R51 100K
C46 .001µF
R52 12K
C47 .001µF
R100 1.5K
R50 100
R67 100K
R59 12K
C49 .001µF
C51 .001µF
R66 1.5K
R65 100
R64 10K
C43 100µF
C42 100µF
C41 100µF
R57 4.7K
C40 100µF
R119 4.7K
C79 22µF
C171 22µF
C174 4.7µF/25V
R124 22K
R120 33K
R58 22K
U19 TC9154
R125 4.7K
C173 100µF
C81 100µF
R126 4.7K
R121 22K
R122 33K
C176 4.7µF/25V
R127 22K
C172 22µF
C80 22µF
+12V
RP8 47K
U27 7407
CDAL
AUDL
AUDR
CDAR
LMUTE
VDATA
VCK
VST
AUPLY
INTD
IFRST
74LS08
U21
U24 74LS74
U27 7407
R48 1K
R49 470
Vcc
+5VD
Q6 2N3906
CN17B
EMI90
EMI91
EMI92
EMI93
EMI94
JP14
R135 10K
R136 10K
EMI63
EMI61
EMI62
EMI88
EMI89
R10 10K
R11 10K
CN17A HEAD PHONE
HEAD PHONE JACK
C87 .22µF
U21 74LS08
C90 .22µF
U26 74LS04
C103 .22µF
U27 7407
C99 .22µF
U29 74LS00
C95 .22µF
U30 74LS02
C106 .22µF
U39 74LS32
C107 .22µF
U40 74LS04
C109 .22µF
U41 74LS27
C98 .22µF
U24 74LS74
AUDIO


SWITCHING POWER SUPPLY
AC RECEPTACLE
FG
P103
-AC
+AC
CN19
+5VD
CN23
MAIN POWER SWITCH
R94 470
Q10 2N3904
POWER
R93 4.7K
CN20
+5VD
C82 47μF
C83 .22μF
VROM
GND
P102
+5V
GND
GND
+12V
TO CDROM MECHANISM
P101
CN21
+5V
+5V
GND
GND
+5V
GND
+12V
-12V
+5V
GND
+5V
GND
+12V
-12V
CN22
TO MAIN LOGIC
TO MAIN LOGIC
C69 3300μF/10V
C73 .22μF
C68 470μF/16V
C67 .22μF
C71 .22μF
C72 100μF
T1
+5VD
C84 100μF
R71 12K
C85 10μF
RD5.1EB3 D4
1N4148C D5
2N3904 Q7
2SD789 Q8
C86 680pF
R72 3.3K
D3
RD33EB2 (31.5V)
VF1
VPP
VF2
POWER, DISPLAY
CN29
VCC
6,10,11
IFRST
10
WEPROM
2,6,7,8,10
RW
3
ECD
+12V