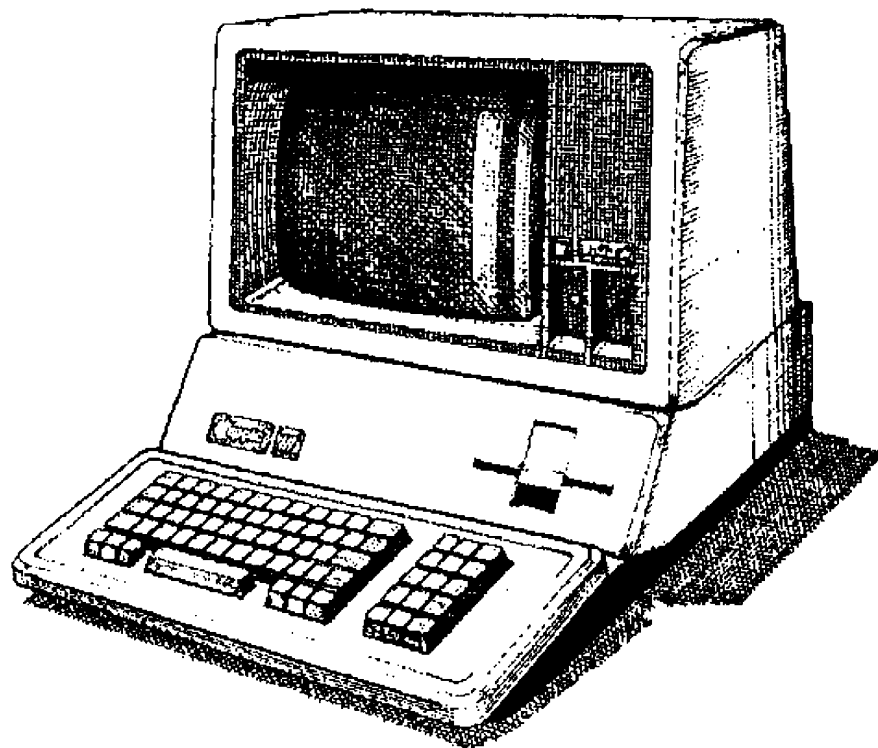




Apple /// Computer Information

Apple /// Service Reference Manual



Section II of II • Servicing Information

Chapter 15 • Wire List

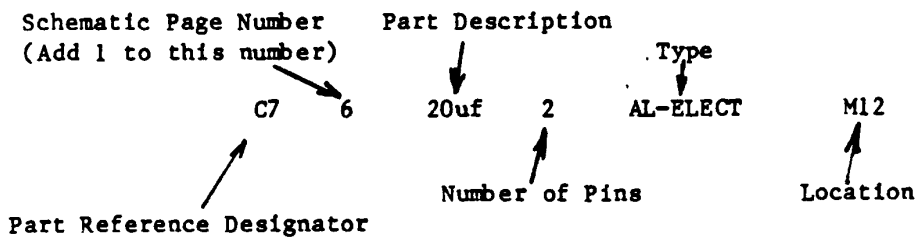
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THE APPLE /// WIRE LIST

The following list is to be used for finding circuit components which are connected to each other.

INTEPRETING WIRE LIST NOMENCLATURE



Note: This wire list has schematic page numbers for the old Apple /// Schematic. Please add 1 to the schematic page number for the correct page.



PART REFERENCE DESIGNATOR
SYMBOLIC SHEET #3
PART DESCRIPTION
PNB. LEADS

A/// WIRE LIST

B1 2 BRIDGE 2
 1 PCASO.3*
 P1-9 U3-12 B1-1
 2 RASO.3*
 J17-12 R58-2 B1-2
 C1 4 10U 2 AL-ELECT B1
 1 Q2-1 C1-1 R4-2
 2 GND
 C2 4 .1U 2 MON A3
 1 PWRDN*
 U72-23 Q3-3 C2-1 R6-2
 2 GND
 C3 4 3-30P 3 A3
 1 GND
 2 GND
 3 Y2-1 U72-10 C3-3
 C4 4 20P 2 CER A3
 1 C4-1 U72-11 Y2-2
 2 GND
 C5 5 47P 2 CER N9
 1 P3-9 R55-2 C5-1 L1-1
 2 GND
 C7 6 22U 2 AL-ELECT M12
 1 +5V
 2 DT1M
 R31-1 U164-10 C7-2 U96-2 U96-6
 C9 7 .022U 2 CER M10
 1 U105-6 R39-2 C9-1
 2 GND
 C10 7 1U 2 ELECT
 1 SUMSND
 R35-2 P9-1 C10-1 R78-2
 2 PEKTSFK
 U172-19 C10-2
 C12 7 10U 2 AL-ELECT
 1 +12V
 2 GND
 C13 7 1U 2 ELECT N10
 1 C13-1 U103-8
 2 GND
 C15 7 .01U 2 MYLAR M11



```

1          TCAP
          C15-1 U105-4
2          GND

C16 8 47P 2 CER H14
1          C16-1 U107-1
2          U107-2 C16-2 R47-2

C17 8 .1U 2 MON M7
1          U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
          X3-1 C75-1
2          U164-6 C17-2 X5-2 C75-2

C18 8 .05U 2 CER M8
1          U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
          X3-1 C75-1
2          GND

C20 8 .1U 2 MON
1          UPRST*
          C20-1 U113-6 U113-2 R44-2 X4-2 X6-1
2          GND

C21 8 .1U 2 MON A5
1          U113-8 R46-2 U113-12 C21-1
2          GND

C22 8 .1U 2 MON G12
1          U107-31 C22-1
2          GND

C23 9 .1U 2 MON B14
1          Q10-2 R90-2 R91-1 C23-1 R49-1
2          GND

C25 1 .1U 2 MON M7
1          +5FV
2          GNDF

C26 1 .1U 2 MON
1          -5FV
2          GNDF

C27 1 .1U 2 MON N11
1          +12FV
2          GNDF

C28 1 .1U 2 MON M10
1          -12FV
2          GNDF

C29 1 .1U 2 MON J2
    
```

+5FV

-5FV

+12FV

-12FV



	1		+12V
	2		GND
C30	1	.1U 2 MON	J2
	1		+5V
	2		GND
C31	1	.1U 2 MON	K1
	1		+12V
	2		GND
C32	1	.1U 2 MON	K2
	1		+12V
	2		GND
C33	1	.1U 2 MON	K4
	1		+12V
	2		GND
C34	1	.1U 2 MON	K6
	1		+12V
	2		GND
C35	1	.1U 2 MON	M1
	1		-12V
	2		GND
C36	1	.1U 2 MON	M1
	1		-5V
	2		GND
C37	1	.1U 2 MON	A2
	1		+5V
	2		GND
C38	1	.1U 2 MON	K8
	1		+5V
	2		GND
C39	1	.1U 2 MON	K10
	1		+5V
	2		GND
C40	1	.1U 2 MON	K12
	1		+5V
	2		GND
C41	1	.1U 2 MON	M6
	1		-12V
	2		GND
C42	1	.1U 2 MON	G4



	1		+5V
	2		GND
C43	1	.1U 2 MON	G12
	1		+5V
	2		GND
C44	1	.1U 2 MON	G12
	1		+5V
	2		GND
C45	1	.1U 2 MON	F7
	1		+5V
	2		GND
C46	1	.1U 2 MON	A12
	1		+5V
	2		GND
C47	1	.1U 2 MON	E14
	1		+5V
	2		GND
C48	1	.1U 2 MON	M6
	1		-5V
	2		GND
C50	1	.1U 2 MON	D7
	1		+5V
	2		GND
C51	1	.1U 2 MON	B8
	1		+5V
	2		GND
C52	1	.1U 2 MON	A6
	1		+5V
	2		GND
C53	1	.1U 2 MON	E4
	1		+5V
	2		GND
C54	1	.1U 2 MON	D4
	1		+5V
	2		GND
C55	1	.1U 2 MON	C2
	1		+5V
	2		GND
C56	1	.1U 2 MON	B10



```

1          +5V
2          GND

C57 1 .1U 2 MON B12
1          +5V
2          GND

C58 1 .1U 2 MON A10
1          +5V
2          GND

C59 9 10P 2 CER A8
1          CS6522
          R68-2 U73-24 C59-1 U97-24
2          GND

C60 1 220U 2 AL-ELECT N11
1          +5FV
2          GNDF

C61 1 220U 2 AL-ELECT N7
1          GNDF
2          -5FV

C62 1 220U 2 AL-ELECT N12
1          +12FV
2          GNDF

C63 1 220U 2 AL-ELECT M10
1          GNDF
2          -12FV

C64 1 .1U 2 MON F14
1          +5V
2          GND

C65 1 .1U 2 MON A4
1          +5V
2          GND

C66 1 220P 2 CER M5
1          R96-2 C66-1
2          GND

C67 1 220P 2 CER L1
1          R93-2 C67-1
2          GND

C68 1 220P 2 CER L1
1          R94-2 C68-1
2          GND
    
```



C69 7 .1U 2 MON A8
 1 +5V
 2 C69-2 R75-2 U181-1 U181-2

C70 7 .1U 2 MON A8
 1 R77-2 U181-8 U181-12 C70-1
 2 GND

C71 8 1U 2 ELECT M14
 1 KRESET*
 U139-12 R80-1 C71-1 U179-15 J7-15
 2 GNDF

C73 9 .1U 2 MON B14
 1 +12V
 2 GND

C74 2 100P 2 CER D12
 1 R100-2 C74-1 U4-11
 2 GND

C75 8 .1U 2 MON M6
 1 U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
 X3-1 C75-1
 2 U164-6 C17-2 X5-2 C75-2

C76 7 .1U 2 MON M8
 1 U105-8 R37-2 R38-1 C76-1
 2 GND

C77 1 220P 2 CER L1
 1 R95-2 C77-1
 2 GND

C78 7 100P 2 CER
 1 C78-1 U103-2 R34-2 R36-1
 2 GND

C79 1 .1U 2 MON
 1 +5V
 2 GND

C80 1 .1U 2 MON
 1 +5V
 2 GND

J1 1 26PIN 26 RIBBON
 1 GNDF
 2 DPHO
 J6-2 U166-9 J1-2
 3 GNDF
 4 DPH1



5	J6-4 U167-9 J1-4
6	GNDP DPH2
7	J6-6 U166-8 J1-6
8	GNDP DPH3
9	J6-8 U167-8 J1-8
10	-12FV WRREQ
11	J6-10 U166-7 J1-10
12	+5FV
13	+12FV
14	ENBL1.E* J1-14 U166-5
15	+12FV
16	RDDATA J6-16 U166-4 J1-16
17	+12FV
18	WRDATA J6-18 U166-3 J1-18
19	+12FV
20	WRPROT J6-20 U167-4 J1-20
21	ENBL3.E* J1-21 U166-2
22	ENBL2.E* J1-22 U167-6
23	ALI* U167-5 J1-23 J6-23
24	SIDE2/1 J6-24 U167-7 J1-24
25	NO CONNECTION
26	EXT* J1-26 U167-2

-12FV

J2 1 9PIN 9 9D

1	GNDP
2	+5FV
3	GNDP
4	XO U169-9 J2-4
5	SW2 U169-7 J2-5
6	+12FV
7	GNDP
8	YO U169-6 J2-8
9	SWO U169-8 J2-9

J3 1 9PIN 9 9D



1	GNDF
2	+5FV
3	GNDF
4	X1/SER
	J3-4 U169-3
5	SW1/MGNSW
	J3-5 U169-2
6	+12FV
7	GNDF
8	Y1/XCO
	J3-8 U169-4
9	SW3/SCO
	J3-9 U169-5

J4 1 25PIN 25 25D

1	GNDF
2	TXD
	J4-2 U172-9
3	DATA IN
	J4-3 U172-8
4	RTS
	J4-4 U172-7
5	CTS
	J4-5 U172-6
6	DSR
	J4-6 U172-5
7	GNDF
8	DCD
	J4-8 U172-3
9	NO CONNECTION
10	NO CONNECTION
11	NO CONNECTION
12	NO CONNECTION
13	NO CONNECTION
14	NO CONNECTION
15	NO CONNECTION
16	NO CONNECTION
17	NO CONNECTION
18	NO CONNECTION
19	NO CONNECTION
20	DTR
	J4-20 U172-4
21	NO CONNECTION
22	NO CONNECTION
23	NO CONNECTION
24	NO CONNECTION
25	NO CONNECTION

J5 1 15PIN 15 15D

1	GNDF
2	XRGB4
	J5-2 P17-3 P18-3



3	XSYNC
	J5-3 P17-9 P18-6
4	PDINT*
	J5-4 U72-14
5	XRGB1
	J5-5 P17-7 P18-5
6	GNDF
7	-5FV
8	+12FV
9	XRGB2
	J5-9 P17-5 P18-4
10	XRGB8
	J5-10 P17-1 P18-2
11	B&WVID
	J5-11 R15-2 J10-1 P18-7
12	NTSC
	J5-12 R12-2 P18-8
13	GNDF
14	-12FV
15	+5FV

-5FV

J6 1 26PIN 26 RIBBON

1	GNDF
2	DPHO
	J6-2 U166-9 J1-2
3	GNDF
4	DPH1
	J6-4 U167-9 J1-4
5	GNDF
6	DPH2
	J6-6 U166-8 J1-6
7	GNDF
8	DPH3
	J6-8 U167-8 J1-8
9	-12FV
10	WRREQ
	J6-10 U166-7 J1-10
11	+5FV
12	+5FV
13	+12FV
14	ENBL1.I*
	J6-14 U166-6
15	+12FV
16	RDDATA
	J6-16 U166-4 J1-16
17	+12FV
18	WRDATA
	J6-18 U166-3 J1-18
19	+12FV
20	WRPROT
	J6-20 U167-4 J1-20
21	NO CONNECTION



22 NO CONNECTION
 23 AII*
 U167-5 J1-23 J6-23
 24 SIDE2/1
 J6-24 U167-7 J1-24
 25 NO CONNECTION
 26 INT*
 J6-26 U167-3

J7 1 26PIN 26 RIBBON

1 KY0
 J7-1 U107-17
 2 KY1
 J7-2 U107-18
 3 KVCC
 J7-3 Q9-2
 4 KY2
 J7-4 U107-19
 5 APPLEII*
 J7-5 P11-5 U106-12 U164-5
 6 KY3
 J7-6 U107-20
 7 APPLEI*
 J7-7 P11-4 U111-3
 8 KY4
 J7-8 U107-21
 9 CAPLCK*
 J7-9 P11-3 U109-13
 10 KY5
 J7-10 U107-22
 11 CONTROL*
 J7-11 U179-13 U107-28 U109-10 P11-2
 12 KY8
 J7-12 U107-25
 13 GNDP
 14 KX0
 J7-14 U171-9
 15 KRESET*
 U139-12 R80-1 C71-1 U179-15 J7-15
 16 KX2
 J7-16 U171-8
 17 KX7
 J7-17 U171-7
 18 KX1
 J7-18 U171-6
 19 KX5
 J7-19 U171-5
 20 KX3
 J7-20 U171-4
 21 KX4
 J7-21 U171-3
 22 KY9



23 J7-22 U107-26
 KY6
 J7-23 U107-23
 24 SHIFT*
 J7-24 P11-6 U107-29
 25 KY7
 J7-25 U107-24
 26 KX6
 J7-26 U171-2

J8 1 10PIN 10 PWR G1
 1 -12V
 2 GND
 3 GND
 4 GND
 5 GND
 6 -5V
 7 +5V
 8 +5V
 9 +12V
 10 +12V

J9 1 2PIN 2 MOLEX M11
 1 AUDIO
 J9-1 R69-1
 2 +5V

J10 1 2PIN 3 RCA
 1 B&WVID
 J5-11 R15-2 J10-1 P18-7
 2 GNDF
 3 GNDF

J11 1 3PIN 3 MINPHONE
 1 EXTSPK1
 J11-1 R34-1
 2 EXTSPK2
 J11-2 U172-2
 3 GNDF

J12 1 50PIN 50 EDG
 1 IOSEL1*
 U74-14 J12-1
 2 A0
 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
 3 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 4 A2
 J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
 U177-2 U94-2 U75-2 U73-36 U63-14



5 A3
 J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
 U97-35 U177-3 U94-3 U75-3 U73-35 U63-12

6 A4
 J15-6 J14-6 J13-6 J12-6 U9-6 U77-1 U76-1
 U112-2 U63-9

7 A5
 J15-7 J14-7 J13-7 J12-7 U9-10 U76-2 U77-2
 U112-3 U63-7

8 A6
 J15-8 J14-8 J13-8 J12-8 U2-4 U77-3 U76-3
 U71-10 U63-5 U71-11

9 A7
 J15-9 J14-9 J13-9 J12-9 U13-10 U77-4 U76-6
 U71-7 U63-3

10 A8
 J15-10 J14-10 J13-10 J12-10 U67-4 U74-1 U71-6
 U2-12 U13-6 U13-4

11 A9
 J15-11 J14-11 J13-11 J12-11 U5-4 U74-2 U71-5
 U67-7

12 A10
 J15-12 J14-12 J13-12 J12-12 U128-1 U74-3 U71-4
 U67-9

13 A11
 J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
 U150-13 U74-5 U67-12 U3-5 U174-5

14 A12
 J15-14 J14-14 J13-14 J12-14 U9-12 U155-11 U165-14
 U70-4 U71-2 U174-6

15 A13
 J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15
 U71-1 U70-7 U6-5 U3-6 U174-7

16 A14
 J15-16 J14-16 J13-16 J12-16 U3-7 U147-4 U70-9
 U6-16 U174-4

17 A15
 J15-17 J14-17 J13-17 J12-17 U3-4 U147-3 U70-12
 U174-16 U6-7

18 R/W*
 J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
 U176-6 U165-11 U160-11

19 PHO
 J15-19 U136-11^{HOA} J14-19 J13-19 J12-19 U124-5^{A11} U65-37
R96-1

20 IOSTRB*
 J15-20 U150-12 J14-20 J13-20 J12-20

21 RDY
 J15-21 U164-8 J14-21 J13-21 J12-21 P14-4 U65-2

22 TSADB*
 J15-22 J12-22 J14-22 J13-22 U163-3 P14-3

23 SPARE2



24	J15-23	J12-23	J14-23	J13-23			
	SPARE1						
25	J15-24	J12-24	J14-24	J13-24			
26	+5V						
27	GND						
	DMAOK						
28	U144-8	J12-27	J15-27	J14-27	J13-27		
	DMAI*						
	U176-2	J12-28	J15-28	J14-28	J13-28	U163-5	P14-2
	U153-9						
29	IONMI*						
	J15-29	U97-17	J14-29	J13-29	U139-13	J12-29	
30	IRQ1*						
	U101-14	J12-30	P2-7	U148-1			
31	IORESET*						
	J12-31	J13-31	J14-31	J15-31	P14-6	U164-2	U164-4
	U96-4	U94-15					
32	INH*						
	J15-32	J14-32	J13-32	J12-32	U176-4	U165-13	P14-5
33	-12V						
34	-5V						
35	SYNC						
	U65-7	U136-1	J15-35	U174-3	J14-35	J13-35	J12-35
36	C7M						
	J15-36	J14-36	J13-36	J12-36	U141-9	U119-2	U146-12
	U90-14						
37	Q3						
	J14-37	U85-3	J15-37	J13-37	J12-37	U117-12	R93-1
	U154-2						
38	PRE1M*						
	J12-38	J13-38	J14-38	J15-38	U123-6	R95-1	
39	CO2X*						
	J15-39	U77-13	J14-39	J13-39	J12-39		
40	PRE1M						
	J12-40	J13-40	J14-40	J15-40	U119-12	U73-25	U123-5
	U97-25	U139-10	R94-1				
41	DEVSEL1*						
	J12-41	U76-14					
42	D7						
	J15-42	J14-42	J13-42	J12-42	U68-12	J16-24	U111-12
	U101-5	U91-7	U69-12	P15-9			
43	D6						
	J15-43	J14-43	J13-43	J12-43	U68-13	J16-23	U111-9
	U91-13	U69-9	P15-8				
44	D5						
	J15-44	J14-44	J13-44	J12-44	U68-14	J16-22	U111-7
	U91-6	U69-7	P15-7				
45	D4						
	J15-45	J14-45	J13-45	J12-45	U68-15	J16-21	U111-4
	U91-14	U69-4	P15-6				
46	D3						
	J15-46	J14-46	J13-46	J12-46	U68-16	J16-20	U109-12



47 U91-5 U66-12 P15-5
 D2
 J15-47 J14-47 J13-47 J12-47 U68-17 J16-19 U109-9
 U91-15 U66-9 P15-4

48 D1
 J15-48 J14-48 J13-48 J12-48 U68-18 J16-18 U109-7
 U91-4 U66-7 P15-3

49 D0
 J15-49 J14-49 J13-49 J12-49 U68-19 J16-17 U109-4
 U91-16 U66-4 P15-2

50 +12V

J13 1 50PIN 50 EDG

1 IOSEL2*
 U74-13 J13-1

2 A0
 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13

3 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16

4 A2
 J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
 U177-2 U94-2 U75-2 U73-36 U63-14

5 A3
 J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
 U97-35 U177-3 U94-3 U75-3 U73-35 U63-12

6 A4
 J15-6 J14-6 J13-6 J12-6 U9-6 U77-1 U76-1
 U112-2 U63-9

7 A5
 J15-7 J14-7 J13-7 J12-7 U9-10 U76-2 U77-2
 U112-3 U63-7

8 A6
 J15-8 J14-8 J13-8 J12-8 U2-4 U77-3 U76-3
 U71-10 U63-5 U71-11

9 A7
 J15-9 J14-9 J13-9 J12-9 U13-10 U77-4 U76-6
 U71-7 U63-3

10 A8
 J15-10 J14-10 J13-10 J12-10 U67-4 U74-1 U71-6
 U2-12 U13-6 U13-4

11 A9
 J15-11 J14-11 J13-11 J12-11 U5-4 U74-2 U71-5
 U67-7

12 A10
 J15-12 J14-12 J13-12 J12-12 U128-1 U74-3 U71-4
 U67-9

13 A11
 J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
 U150-13 U74-5 U67-12 U3-5 U174-5

14 A12



	J15-14	J14-14	J13-14	J12-14	U9-12	U155-11	U165-14
	U70-4	U71-2	U174-6				
15	A13						
	J15-15	J14-15	J13-15	J12-15	U128-4	U155-12	U165-15
	U71-1	U70-7	U6-5	U3-6	U174-7		
16	A14						
	J15-16	J14-16	J13-16	J12-16	U3-7	U147-4	U70-9
	U6-16	U174-4					
17	A15						
	J15-17	J14-17	J13-17	J12-17	U3-4	U147-3	U70-12
	U174-16	U6-7					
18	R/W*						
	J15-18	J14-18	J13-18	J12-18	U3-3	U136-9	U180-17
	U176-6	U165-11	U160-11				
19	PHO						
	J15-19	U136-11	J14-19	J13-19	J12-19	U124-5	U65-37
	R96-1						
20	IOSTRB*						
	J15-20	U150-12	J14-20	J13-20	J12-20		
21	RDY						
	J15-21	U164-8	J14-21	J13-21	J12-21	P14-4	U65-2
22	TSADB*						
	J15-22	J12-22	J14-22	J13-22	U163-3	P14-3	
23	SPARE2						
	J15-23	J12-23	J14-23	J13-23			
24	SPARE1						
	J15-24	J12-24	J14-24	J13-24			
25	+5V						
26	GND						
27	DMAOK						
	U144-8	J12-27	J15-27	J14-27	J13-27		
28	DMAI*						
	U176-2	J12-28	J15-28	J14-28	J13-28	U163-5	P14-2
	U153-9						
29	IONMI*						
	J15-29	U97-17	J14-29	J13-29	U139-13	J12-29	
30	IRQ2*						
	U101-15	J13-30	P2-6	U148-2			
31	IORESET*						
	J12-31	J13-31	J14-31	J15-31	P14-6	U164-2	U164-4
	U96-4	U94-15					
32	INH*						
	J15-32	J14-32	J13-32	J12-32	U176-4	U165-13	P14-5
33	-12V						
34	-5V						
35	SYNC						
	U65-7	U136-1	J15-35	U174-3	J14-35	J13-35	J12-35
36	C7M						
	J15-36	J14-36	J13-36	J12-36	U141-9	U119-2	U146-12
	U90-14						
37	Q3						
	J14-37	U85-3	J15-37	J13-37	J12-37	U117-12	R93-1



38 U154-2
PRE1M*
J12-38 J13-38 J14-38 J15-38 U123-6 R95-1

39 C02X*
J15-39 U77-13 J14-39 J13-39 J12-39

40 PRE1M
J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
U97-25 U139-10 R94-1

41 DEVSEL2*
J13-41 U76-13

42 D7
J15-42 J14-42 J13-42 J12-42 U68-12 J16-24 U111-12
U101-5 U91-7 U69-12 P15-9

43 D6
J15-43 J14-43 J13-43 J12-43 U68-13 J16-23 U111-9
U91-13 U69-9 P15-8

44 D5
J15-44 J14-44 J13-44 J12-44 U68-14 J16-22 U111-7
U91-6 U69-7 P15-7

45 D4
J15-45 J14-45 J13-45 J12-45 U68-15 J16-21 U111-4
U91-14 U69-4 P15-6

46 D3
J15-46 J14-46 J13-46 J12-46 U68-16 J16-20 U109-12
U91-5 U66-12 P15-5

47 D2
J15-47 J14-47 J13-47 J12-47 U68-17 J16-19 U109-9
U91-15 U66-9 P15-4

48 D1
J15-48 J14-48 J13-48 J12-48 U68-18 J16-18 U109-7
U91-4 U66-7 P15-3

49 D0
J15-49 J14-49 J13-49 J12-49 U68-19 J16-17 U109-4
U91-16 U66-4 P15-2

50 +12V

J14 1 50PIN 50 EDG

1 IOSEL3*
U74-12 J14-1

2 A0
J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
U101-11 U94-13 U73-38 U75-13 U63-18 U177-13

3 A1
J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
U101-10 U177-1 U94-1 U73-37 U75-1 U63-16

4 A2
J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
U177-2 U94-2 U75-2 U73-36 U63-14

5 A3
J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
U97-35 U177-3 U94-3 U75-3 U73-35 U63-12

6 A4



	J15-6	J14-6	J13-6	J12-6	U9-6	U77-1	U76-1
	U112-2	U63-9					
7	A5						
	J15-7	J14-7	J13-7	J12-7	U9-10	U76-2	U77-2
	U112-3	U63-7					
8	A6						
	J15-8	J14-8	J13-8	J12-8	U2-4	U77-3	U76-3
	U71-10	U63-5	U71-11				
9	A7						
	J15-9	J14-9	J13-9	J12-9	U13-10	U77-4	U76-6
	U71-7	U63-3					
10	A8						
	J15-10	J14-10	J13-10	J12-10	U67-4	U74-1	U71-6
	U2-12	U13-6	U13-4				
11	A9						
	J15-11	J14-11	J13-11	J12-11	U5-4	U74-2	U71-5
	U67-7						
12	A10						
	J15-12	J14-12	J13-12	J12-12	U128-1	U74-3	U71-4
	U67-9						
13	A11						
	J15-13	J14-13	J13-13	J12-13	U128-12	U6-6	U71-3
	U150-13	U74-5	U67-12	U3-5	U174-5		
14	A12						
	J15-14	J14-14	J13-14	J12-14	U9-12	U155-11	U165-14
	U70-4	U71-2	U174-6				
15	A13						
	J15-15	J14-15	J13-15	J12-15	U128-4	U155-12	U165-15
	U71-1	U70-7	U6-5	U3-6	U174-7		
16	A14						
	J15-16	J14-16	J13-16	J12-16	U3-7	U147-4	U70-9
	U6-16	U174-4					
17	A15						
	J15-17	J14-17	J13-17	J12-17	U3-4	U147-3	U70-12
	U174-16	U6-7					
18	R/W*						
	J15-18	J14-18	J13-18	J12-18	U3-3	U136-9	U180-17
	U176-6	U165-11	U160-11				
19	PHO						
	J15-19	U136-11	J14-19	J13-19	J12-19	U124-5	U65-37
	R96-1						
20	IOSTRB*						
	J15-20	U150-12	J14-20	J13-20	J12-20		
21	RDY						
	J15-21	U164-8	J14-21	J13-21	J12-21	P14-4	U65-2
22	TSADB*						
	J15-22	J12-22	J14-22	J13-22	U163-3	P14-3	
23	SPARE2						
	J15-23	J12-23	J14-23	J13-23			
24	SPARE1						
	J15-24	J12-24	J14-24	J13-24			
25	+5V						



26	GND						
27	DMAOK						
	U144-8	J12-27	J15-27	J14-27	J13-27		
28	DMAI*						
	U176-2	J12-28	J15-28	J14-28	J13-28	U163-5	P14-2
	U153-9						
29	IONMI*						
	J15-29	U97-17	J14-29	J13-29	U139-13	J12-29	
30	IRQ3*						
	U97-7	J14-30	P2-4	U148-4			
31	IORESET*						
	J12-31	J13-31	J14-31	J15-31	P14-6	U164-2	U164-4
	U96-4	U94-15					
32	INH*						
	J15-32	J14-32	J13-32	J12-32	U176-4	U165-13	P14-5
33	-12V						
34	-5V						
35	SYNC						
	U65-7	U136-1	J15-35	U174-3	J14-35	J13-35	J12-35
36	C7M						
	J15-36	J14-36	J13-36	J12-36	U141-9	U119-2	U146-12
	U90-14						
37	Q3						
	J14-37	U85-3	J15-37	J13-37	J12-37	U117-12	R93-1
	U154-2						
38	PRE1M*						
	J12-38	J13-38	J14-38	J15-38	U123-6	R95-1	
39	C02X*						
	J15-39	U77-13	J14-39	J13-39	J12-39		
40	PRE1M						
	J12-40	J13-40	J14-40	J15-40	U119-12	U73-25	U123-5
	U97-25	U139-10	R94-1				
41	DEVSEL3*						
	J14-41	U76-12					
42	D7						
	J15-42	J14-42	J13-42	J12-42	U68-12	J16-24	U111-12
	U101-5	U91-7	U69-12	P15-9			
43	D6						
	J15-43	J14-43	J13-43	J12-43	U68-13	J16-23	U111-9
	U91-13	U69-9	P15-8				
44	D5						
	J15-44	J14-44	J13-44	J12-44	U68-14	J16-22	U111-7
	U91-6	U69-7	P15-7				
45	D4						
	J15-45	J14-45	J13-45	J12-45	U68-15	J16-21	U111-4
	U91-14	U69-4	P15-6				
46	D3						
	J15-46	J14-46	J13-46	J12-46	U68-16	J16-20	U109-12
	U91-5	U66-12	P15-5				
47	D2						
	J15-47	J14-47	J13-47	J12-47	U68-17	J16-19	U109-9
	U91-15	U66-9	P15-4				



48 D1
 J15-48 J14-48 J13-48 J12-48 U68-18 J16-18 U109-7
 U91-4 U66-7 P15-3
 49 D0
 J15-49 J14-49 J13-49 J12-49 U68-19 J16-17 U109-4
 U91-16 U66-4 P15-2
 50 +12V

J15 1 50PIN 50 EDG

1 IOSEL4*
 U74-11 J15-1
 2 A0
 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
 3 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 4 A2
 J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
 U177-2 U94-2 U75-2 U73-36 U63-14
 5 A3
 J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
 U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
 6 A4
 J15-6 J14-6 J13-6 J12-6 U9-6 U77-1 U76-1
 U112-2 U63-9
 7 A5
 J15-7 J14-7 J13-7 J12-7 U9-10 U76-2 U77-2
 U112-3 U63-7
 8 A6
 J15-8 J14-8 J13-8 J12-8 U2-4 U77-3 U76-3
 U71-10 U63-5 U71-11
 9 A7
 J15-9 J14-9 J13-9 J12-9 U13-10 U77-4 U76-6
 U71-7 U63-3
 10 A8
 J15-10 J14-10 J13-10 J12-10 U67-4 U74-1 U71-6
 U2-12 U13-6 U13-4
 11 A9
 J15-11 J14-11 J13-11 J12-11 U5-4 U74-2 U71-5
 U67-7
 12 A10
 J15-12 J14-12 J13-12 J12-12 U128-1 U74-3 U71-4
 U67-9
 13 A11
 J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
 U150-13 U74-5 U67-12 U3-5 U174-5
 14 A12
 J15-14 J14-14 J13-14 J12-14 U9-12 U155-11 U165-14
 U70-4 U71-2 U174-6
 15 A13
 J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15



	U71-1	U70-7	U6-5	U3-6	U174-7		
16	A14						
	J15-16	J14-16	J13-16	J12-16	U3-7	U147-4	U70-9
	U6-16	U174-4					
17	A15						
	J15-17	J14-17	J13-17	J12-17	U3-4	U147-3	U70-12
	U174-16	U6-7					
18	R/W*						
	J15-18	J14-18	J13-18	J12-18	U3-3	U136-9	U180-17
	U176-6	U165-11	U160-11				
19	PHO						
	J15-19	U136-11	J14-19	J13-19	J12-19	U124-5	U65-37
	R96-1						
20	IOSTRB*						
	J15-20	U150-12	J14-20	J13-20	J12-20		
21	RDY						
	J15-21	U164-8	J14-21	J13-21	J12-21	P14-4	U65-2
22	TSADB*						
	J15-22	J12-22	J14-22	J13-22	U163-3	P14-3	
23	SPARE2						
	J15-23	J12-23	J14-23	J13-23			
24	SPARE1						
	J15-24	J12-24	J14-24	J13-24			
25	+5V						
26	GND						
27	DMAOK						
	U144-8	J12-27	J15-27	J14-27	J13-27		
28	DMAI*						
	U176-2	J12-28	J15-28	J14-28	J13-28	U163-5	P14-2
	U153-9						
29	IONMI*						
	J15-29	U97-17	J14-29	J13-29	U139-13	J12-29	
30	IRQ4*						
	U97-6	J15-30	P2-3	U148-5			
31	IORESET*						
	J12-31	J13-31	J14-31	J15-31	P14-6	U164-2	U164-4
	U96-4	U94-15					
32	INH*						
	J15-32	J14-32	J13-32	J12-32	U176-4	U165-13	P14-5
33	-12V						
34	-5V						
35	SYNC						
	U65-7	U136-1	J15-35	U174-3	J14-35	J13-35	J12-35
36	C7M						
	J15-36	J14-36	J13-36	J12-36	U141-9	U119-2	U146-12
	U90-14						
37	Q3						
	J14-37	U85-3	J15-37	J13-37	J12-37	U117-12	R93-1
	U154-2						
38	PRE1M*						
	J12-38	J13-38	J14-38	J15-38	U123-6	R95-1	
39	C02X*						



40	J15-39	U77-13	J14-39	J13-39	J12-39		
	PRE1M						
	J12-40	J13-40	J14-40	J15-40	U119-12	U73-25	U123-5
	U97-25	U139-10	R94-1				
41	DEVSEL4*						
	J15-41	U76-11					
42	D7						
	J15-42	J14-42	J13-42	J12-42	U68-12	J16-24	U111-12
	U101-5	U91-7	U69-12	P15-9			
43	D6						
	J15-43	J14-43	J13-43	J12-43	U68-13	J16-23	U111-9
	U91-13	U69-9	P15-8				
44	D5						
	J15-44	J14-44	J13-44	J12-44	U68-14	J16-22	U111-7
	U91-6	U69-7	P15-7				
45	D4						
	J15-45	J14-45	J13-45	J12-45	U68-15	J16-21	U111-4
	U91-14	U69-4	P15-6				
46	D3						
	J15-46	J14-46	J13-46	J12-46	U68-16	J16-20	U109-12
	U91-5	U66-12	P15-5				
47	D2						
	J15-47	J14-47	J13-47	J12-47	U68-17	J16-19	U109-9
	U91-15	U66-9	P15-4				
48	D1						
	J15-48	J14-48	J13-48	J12-48	U68-18	J16-18	U109-7
	U91-4	U66-7	P15-3				
49	D0						
	J15-49	J14-49	J13-49	J12-49	U68-19	J16-17	U109-4
	U91-16	U66-4	P15-2				
50	+12V						

J16 1 25PIN 25 LNGMOLEX

1	DB0			
	J16-1	U66-3	U80-13	
2	DB1			
	J16-2	U66-6	U80-8	
3	DB2			
	J16-3	U66-10	U80-14	
4	DB3			
	J16-4	U66-13	U80-7	
5	DB4			
	J16-5	U69-3	U80-17	
6	DB5			
	J16-6	U69-6	U80-4	
7	DB6			
	J16-7	U69-10	U80-18	
8	DB7			
	J16-8	U69-13	U80-3	
9	DA0			
	J16-9	U10-4	U84-13	U66-2
10	DA1			



11	J16-10	U10-5	U84-8	U66-5			
	DA2						
12	J16-11	U10-12	U84-14	U66-11			
	DA3						
13	J16-12	U66-14	U84-7				
	DA4						
14	J16-13	U69-2	U84-17				
	DA5						
15	J16-14	U69-5	U84-4				
	DA6						
16	J16-15	U69-11	U84-18				
	DA7						
17	J16-16	U153-5	U84-3	U69-14			
	D0						
	J15-49	J14-49	J13-49	J12-49	U68-19	J16-17	U109-4
	U91-16	U66-4	P15-2				
18	D1						
	J15-48	J14-48	J13-48	J12-48	U68-18	J16-18	U109-7
	U91-4	U66-7	P15-3				
19	D2						
	J15-47	J14-47	J13-47	J12-47	U68-17	J16-19	U109-9
	U91-15	U66-9	P15-4				
20	D3						
	J15-46	J14-46	J13-46	J12-46	U68-16	J16-20	U109-12
	U91-5	U66-12	P15-5				
21	D4						
	J15-45	J14-45	J13-45	J12-45	U68-15	J16-21	U111-4
	U91-14	U69-4	P15-6				
22	D5						
	J15-44	J14-44	J13-44	J12-44	U68-14	J16-22	U111-7
	U91-6	U69-7	P15-7				
23	D6						
	J15-43	J14-43	J13-43	J12-43	U68-13	J16-23	U111-9
	U91-13	U69-9	P15-8				
24	D7						
	J15-42	J14-42	J13-42	J12-42	U68-12	J16-24	U111-12
	U101-5	U91-7	U69-12	P15-9			
25	GND						

J17 1 25PIN 25 LNGMOLEX

1	GND		
2	+5V		
3	+12V		
4	AR6		
	J17-4	U13-9	P16-5
5	AR5		
	R99-2	J17-5	
6	AR4		
	J17-6	U9-7	P16-6
7	AR3		
	J17-7	U5-9	P16-3
8	AR2		



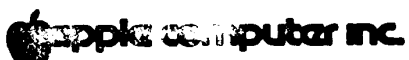
9 J17-8 U5-7 P16-2
 ARI
 R98-2 J17-9
 10 ARO
 R97-2 J17-10
 11 RAMR/W*
 J17-11 U150-8
 12 RAS0.3*
 J17-12 R58-2 B1-2
 13 RAS1.2*
 J17-13 R59-2
 14 RAS4.5*
 J17-14 R60-2
 15 RAS6.7*
 J17-15 R61-2
 16 -5V
 17 CAS0*
 J17-17 U4-2
 18 CAS1*
 J17-18 U4-5
 19 CAS2*
 J17-19 U4-6
 20 CAS3*
 J17-20 U4-9
 21 CAS4,6*
 J17-21 U4-12
 22 CAS5,7*
 U4-15 J17-22
 23 AX*
 U124-8 U2-2 U13-2 U9-2 U5-2 J17-23
 24 AR7
 U13-7 J17-24
 25 GND

J19 1 3PIN 3 MOLEX H14

1 UUTSUNK*
 J19-1 U118-9 U162-8 U120-9
 2 FIELDOUT
 U126-19 J19-2
 3 FIELDIN
 J19-3 U121-18 R63-1

J20 1 10PIN 10 MOLEX H1

1 SYNCH
 J20-1 P17-10 U126-5 P3-2 P4-6
 2 RGB2
 J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
 U89-10
 3 C3.5M
 U132-10 U141-10 U146-13 U119-7 J20-3
 4 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7



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    J20-4
5     RGB8
    J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
    U89-2
6     RGB1
    U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
    U90-12
7     FORCPAGE
    U87-6 P10-2 J20-7
8     COLRGATE
    J20-8 U147-2 U126-6
9     COLORKILL*
    U147-13 U87-11 J20-9
10    GND

J21 1 5PIN 5 MOLEX B14
    1     HPEDIS
        U135-2 J21-1 R54-1
    2     C14M*
        U141-13 U146-8 U124-11 J21-2
    3     UUTRST*
        U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
        U120-1 U118-1 U117-1
    4     UUTUPRST
        R92-2 U162-11 J21-4 U164-3
    5     GND

L1 5 27U 2 L1 M10
    1     P3-9 R55-2 C5-1 L1-1
    2     GNDF

L2 1 30U 2 FIL1 M7
    1     +5V
    2     +5FV

L3 1 10U 2 FIL2 L7
    1     -5V
    2     -5FV

L4 1 30U 2 FIL1 M7
    1     +12V
    2     +12FV

L5 1 10U 2 FIL2 L7
    1     -12V
    2     -12FV

Q1 4 3904 3 TR1 C1
    1     U72-24 Q1-1 X1-2
    2     Q1-2 R5-2
    3     +5V
    
```



Q2 4 3906 3 TR1 C1
 1 Q2-1 C1-1 R4-2
 2 +5V
 3 Q3-2 Q2-3 R101-1

Q3 4 3904 3 TR1 B1
 1 GND
 2 Q3-2 Q2-3 R101-1
 3 PWRDN*
 U72-23 Q3-3 C2-1 R6-2

Q4 5 3904 3 TR1 M7
 1 R15-1 Q4-1 R16-1
 2 P4-1 Q4-2
 3 +5V

Q9 8 MPSU51 3 TR1 L14
 1 +5FV
 2 KVCC
 3 J7-3 Q9-2
 Q9-3 R43-1 U111-10

Q10 9 4258 3 TR1 B13
 1 Q11-1 R48-2 Q10-1
 2 Q10-2 R90-2 R91-1 C23-1 R49-1
 3 R52-1 Q10-3 Y1-1

Q11 9 4258 3 TR1 B13
 1 Q11-1 R48-2 Q10-1
 2 Y1-2 Q11-2 R49-2
 3 Q11-3 R51-1 U146-10 U146-5 U146-2

Q12 5 3904 3 TR1 L7
 1 R12-1 R13-1 Q12-1
 2 P3-1 Q12-2
 3 +5V

P1 2 1K 10 SIP10 C14
 1 +5V
 2 PCAS4,6*
 U4-13 U6-14 P1-2
 3 PCAS1*
 P1-3 U4-4 U6-12 U128-10
 4 PCAS2*
 P1-4 U4-7 U6-11
 5 PCAS5,7*
 U4-14 P1-5 U6-13
 6 PCAS3*
 U128-2 U128-13 P1-6 U3-11 U4-8
 7 PCAS0*



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      P1-7 U4-3 U3-14
8      PUSELB
      U4-17 P1-8 U3-13
9      PCAS0,3*
      P1-9 U3-12 B1-1
10     NO CONNECTION

P2 4 1K 8 SIP8 J4
1      +5V
2      NO CONNECTION
3      IRQ4*
      U97-6 J15-30 P2-3 U148-5
4      IRQ3*
      U97-7 J14-30 P2-4 U148-4
5      NO CONNECTION
6      IRQ2*
      U101-15 J13-30 P2-6 U148-2
7      IRQ1*
      U101-14 J12-30 P2-7 U148-1
8      NO CONNECTION

P3 5 SP3 10 SIP10 L9
1      P3-1 Q12-2
2      SYNCH
      J20-1 P17-10 U126-5 P3-2 P4-6
3      RGB1
      U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
      U90-12
4      RGB2
      J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
      U89-10
5      RGB4
      P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
      J20-4
6      RGB8
      J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
      U89-2
7      NTSCA
      P3-7 U90-7
8      NTSCB
      P3-8 U163-8
9      P3-9 R55-2 C5-1 L1-1
10     NO CONNECTION

P4 5 SP4 8 SIP8 M8
1      P4-1 Q4-2
2      RGB1
      U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
      U90-12
3      RGB2
      J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
      U89-10
    
```



4 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
 J20-4
 5 RGB8
 J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
 U89-2
 6 SYNCH
 J20-1 P17-10 U126-5 P3-2 P4-6
 7 NO CONNECTION
 8 +5V

P8 5 1K 6 SIP6 F4

1 +5V
 2 NO CONNECTION
 3 DX5
 U89-12 U86-5 P8-3
 4 DX4
 U89-13 U86-16 P8-4
 5 DX6
 U89-5 U86-19 P8-5
 6 DX7
 U89-4 U86-2 P8-6

P9 7 SP9 8 SIP8 C5

1 SUMSND
 R35-2 P9-1 C10-1 R78-2
 2 SND5
 P9-2 U97-15
 3 SND4
 P9-3 U97-14
 4 SND3
 P9-4 U97-13
 5 SND2
 P9-5 U97-12
 6 SND1
 P9-6 U97-11
 7 SNDO
 P9-7 U97-10
 8 +5V

P10 5 1K 8 SIP8 G4

1 +5V
 2 FORCPAGE
 U87-6 P10-2 J20-7
 3 RGB8
 J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
 U89-2
 4 RGB1
 U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
 U90-12
 5 NO CONNECTION
 6 RGB2



J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
 U89-10
 7 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
 J20-4
 8 NO CONNECTION

P11 8 1K 8 SIP8 L14
 1 +5V
 2 CONTROL*
 J7-11 U179-13 U107-28 U109-10 P11-2
 3 CAPLCK*
 J7-9 P11-3 U109-13
 4 APPLEI*
 J7-7 P11-4 U111-3
 5 APPLEII*
 J7-5 P11-5 U106-12 U164-5
 6 SHIFT*
 J7-24 P11-6 U107-29
 7 NO CONNECTION
 8 NO CONNECTION

P13 5 1K 6 SIP6 G3
 1 GND
 2 DX0
 U88-14 U86-12 P13-2
 3 DX2
 U88-5 U86-15 P13-3
 4 DX3
 U88-2 U86-6 P13-4
 5 DX1
 U88-11 U86-9 P13-5
 6 NO CONNECTION

P14 3-4-8 1K 6 SIP6 M1
 1 +5V
 2 DMAI*
 U176-2 J12-28 J15-28 J14-28 J13-28 U163-5 P14-2
 U153-9
 3 TSADB*
 J15-22 J12-22 J14-22 J13-22 U163-3 P14-3
 4 RDY
 J15-21 U164-8 J14-21 J13-21 J12-21 P14-4 U65-2
 5 INH*
 J15-32 J14-32 J13-32 J12-32 U176-4 U165-13 P14-5
 6 IORESET*
 J12-31 J13-31 J14-31 J15-31 P14-6 U164-2 U164-4
 U96-4 U94-15

P15 3 3.3K 10 SIP10 C3
 1 +5V
 2 DO



	J15-49	J14-49	J13-49	J12-49	U68-19	J16-17	U109-4
3	U91-16	U66-4	P15-2				
	D1						
	J15-48	J14-48	J13-48	J12-48	U68-18	J16-18	U109-7
4	U91-4	U66-7	P15-3				
	D2						
	J15-47	J14-47	J13-47	J12-47	U68-17	J16-19	U109-9
5	U91-15	U66-9	P15-4				
	D3						
	J15-46	J14-46	J13-46	J12-46	U68-16	J16-20	U109-12
6	U91-5	U66-12	P15-5				
	D4						
	J15-45	J14-45	J13-45	J12-45	U68-15	J16-21	U111-4
7	U91-14	U69-4	P15-6				
	D5						
	J15-44	J14-44	J13-44	J12-44	U68-14	J16-22	U111-7
8	U91-6	U69-7	P15-7				
	D6						
	J15-43	J14-43	J13-43	J12-43	U68-13	J16-23	U111-9
9	U91-13	U69-9	P15-8				
	D7						
	J15-42	J14-42	J13-42	J12-42	U68-12	J16-24	U111-12
10	U101-5	U91-7	U69-12	P15-9			
	NO CONNECTION						

P16 2 330 8 SIP8 F13

1	+5V			
2	AR2			
	J17-8	U5-7	P16-2	
3	AR3			
	J17-7	U5-9	P16-3	
4	ARO			
	P16-4	R97-1	U2-7	
5	AR6			
	J17-4	U13-9	P16-5	
6	AR4			
	J17-6	U9-7	P16-6	
7	AR5			
	R99-1	U9-9	P16-7	
8	AR1			
	P16-8	R98-1	U2-9	

P17 5 75 10 SIP10 M9

1	XRGB8						
	J5-10	P17-1	P18-2				
2	RGB8						
	J20-5	P4-5	P17-2	P3-6	P10-3	U90-11	U90-3
	U89-2						
3	XRGB4						
	J5-2	P17-3	P18-3				
4	RGB4						
	P4-4	P17-4	P3-5	P10-7	U90-4	U90-10	U89-7



5 J20-4
 XRGB2
 J5-9 P17-5 P18-4
 6 RGB2
 J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
 U89-10
 7 XRGB1
 J5-5 P17-7 P18-5
 8 RGB1
 U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
 U90-12
 9 XSYNC
 J5-3 P17-9 P18-6
 10 SYNCH
 J20-1 P17-10 U126-5 P3-2 P4-6

P18 5 220P 8 SIP8 M9

1 GNDF
 2 XRGB8
 J5-10 P17-1 P18-2
 3 XRGB4
 J5-2 P17-3 P18-3
 4 XRGB2
 J5-9 P17-5 P18-4
 5 XRGB1
 J5-5 P17-7 P18-5
 6 XSYNC
 J5-3 P17-9 P18-6
 7 B&WVID
 J5-11 R15-2 J10-1 P18-7
 8 NTSC
 J5-12 R12-2 P18-8

P19 4 3.3K 10 SIP10 B6

1 +5V
 2 SEL1M
 U180-15 U174-2 U150-3 U73-9 P19-2
 3 IOEN
 U73-8 P19-3 U147-10
 4 SCRN
 U154-13 U73-7 P19-4
 5 RESETLK*
 U179-14 U73-6 P19-5 U139-5
 6 RWPR
 U73-5 P19-6 U180-16
 7 PRIMSTK
 U73-4 P19-7 U158-9
 8 ROMSEL2
 U73-3 U64-21 P19-8
 9 ROMSEL1
 U165-10 U73-2 P19-9
 10 PH2M



P19-10 U141-5 U65-39 U176-17

R4 4 100K 2 QW A2
 1 +5V
 2 Q2-1 C1-1 R4-2

R5 4 47K 2 QW C2
 1 +12V
 2 Q1-2 R5-2

R6 4 470K 2 QW A2
 1 +5V
 2 PWRDN*
 U72-23 Q3-3 C2-1 R6-2

R9 4 3.3M 2 QW A2
 1 R9-1 T1-1 X1-1 U105-10
 2 GND

R12 5 47 2 QW N6
 1 R12-1 R13-1 Q12-1
 2 NTSC
 J5-12 R12-2 P18-8

R13 5 75 2 QW N6
 1 R12-1 R13-1 Q12-1
 2 GND

R15 5 47 2 QW M6
 1 R15-1 Q4-1 R16-1
 2 B&WVID
 J5-11 R15-2 J10-1 P18-7

R16 5 75 2 QW N5
 1 R15-1 Q4-1 R16-1
 2 GND

R31 6 47K 2 QW N14
 1 DT1M
 R31-1 U164-10 C7-2 U96-2 U96-6
 2 +5V

R34 7 3K 2 QW N5
 1 EXTSPK1
 J11-1 R34-1
 2 C78-1 U103-2 R34-2 R36-1

R35 7 4.7K 2 QW G6
 1 AIISPKR
 R35-1 U173-9
 2 SUMSND
 R35-2 P9-1 C10-1 R78-2



R36 7 1K 2 QW M12
 1 C78-1 U103-2 R34-2 R36-1
 2 GND

R37 7 4.3K 2 QW L9
 1 +12V
 2 U105-8 R37-2 R38-1 C76-1

R38 7 1.1K 2 QW L9
 1 U105-8 R37-2 R38-1 C76-1
 2 GND

R39 7 1.2M 2 QW L9
 1 +12V
 2 U105-6 R39-2 C9-1

R40 8 1M 2 QW L11
 1 ANYKEY
 U107-4 R40-1 X2-2 U106-11 U109-3
 2 U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
 X3-1 C75-1

R43 8 1K 2 QW G13
 1 Q9-3 R43-1 U111-10
 2 GND

R44 8 2.2M 2 QW A6
 1 +5V
 2 UPRST*
 C20-1 U113-6 U113-2 R44-2 X4-2 X6-1

R45 8 15K 2 QW A5
 1 +5V
 2 U113-13 R45-2 R46-1

R46 8 3.3M 2 QW A5
 1 U113-13 R45-2 R46-1
 2 U113-8 R46-2 U113-12 C21-1

R47 8 100K 2 QW H14
 1 U107-3 R47-1
 2 U107-2 C16-2 R47-2

R48 9 180 2 QW A13
 1 +12V
 2 Q11-1 R48-2 Q10-1

R49 9 47 2 QW A13
 1 Q10-2 R90-2 R91-1 C23-1 R49-1
 2 Y1-2 Q11-2 R49-2



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R51 9 75 2 QW A13
  1
  2          Q11-3 R51-1 U146-10 U146-5 U146-2
          GND

R52 9 47 2 QW A12
  1          R52-1 Q10-3 Y1-1
  2          NO CONNECTION

R53 9 1K 2 QW C14
  1          +5V
  2          UUTRST*
          U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
          U120-1 U118-1 U117-1

R54 9 1K 2 QW C9
  1          HPEDIS
          U135-2 J21-1 R54-1
  2          GND

R55 5 1K 2 QW K8
  1          COLORBURST
          R55-1 U147-12
  2          P3-9 R55-2 C5-1 L1-1

R57 7 10K 2 QW L8
  1          +5V
  2          PDLOT*
          U101-13 U105-7 R57-2

R58 2 27 2 QW C14
  1          RRAS0.3*
          R58-1 U12-3
  2          RAS0.3*
          J17-12 R58-2 B1-2

R59 2 27 2 QW C14
  1          RRAS1.2*
          R59-1 U12-6
  2          RAS1.2*
          J17-13 R59-2

R60 2 27 2 QW E12
  1          RRAS4.5*
          R60-1 U12-8
  2          RAS4.5*
          J17-14 R60-2

R61 2 27 2 QW D12
  1          RRAS6.7*
          R61-1 U12-11
    
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2          RAS6.7*
          J17-15 R61-2

R63 9 3K 2 QW G11
1          FIELDIN
          J19-3 U121-18 R63-1
2          GND

R65 6 1K 2 QW H9
1          +5V
2          MOTON*
          U179-1 U92-15 U178-15 R65-2 U164-12 U92-16

R66 6 1K 2 QW L11
1          U92-9 U91-9 R66-1
2          GND

R67 6 1K 2 QW L9
1          +5V
2          U161-11 U92-5 R67-2

R68 9 3K 2 QW F7
1          PCS6522
          R68-1 U180-14
2          CS6522
          R68-2 U73-24 C59-1 U97-24

R69 7 33 2 QW M11
1          AUDIO
          J9-1 R69-1
2          R69-2 U103-6

R75 7 1MEG 2 QW A8
1          +5V
2          C69-2 R75-2 U181-1 U181-2

R76 7 1.5K 2 QW A8
1          +5V
2          R76-2 R77-1 U181-13

R77 7 6.8K 2 QW A8
1          R76-2 R77-1 U181-13
2          R77-2 U181-8 U181-12 C70-1

R78 7 6.8K 2 QW A7
1          U181-9 R78-1
2          SUMSND
          R35-2 P9-1 C10-1 R78-2

R79 4 3K 2 QW A4
1          +5V
2          CKIRQ*
    
```



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                U72-13 R79-2 U97-40

R80 8 10K 2 QW M14
  1      KRESET*
        U139-12 R80-1 C71-1 U179-15 J7-15
  2      +5V

R81 1 240 2 QW N4
  1      X7-2 R81-1
  2      GND

R85 7 3K 2 QW N4
  1      +5V
  2      SW1/MGNSWUF
        R85-2 U169-19 U73-39 U101-3

R86 7 1.1K 2 QW J9
  1      R86-1 U160-6 U161-2
  2      GND

R87 7 15K 2 QW J1
  1      +12V
  2      PCTS
        R87-2 U172-15 U100-4

R88 7 15K 2 QW J1
  1      +12V
  2      PDSR
        R88-2 U172-16 U100-10

R89 7 15K 2 QW J2
  1      +12V
  2      PDCD
        R89-2 U172-18 U100-13

R90 9 1.5K 2 QW A13
  1      +12V
  2      Q10-2 R90-2 R91-1 C23-1 R49-1

R91 9 1.1K 2 QW A12
  1      Q10-2 R90-2 R91-1 C23-1 R49-1
  2      GND

R92 8 1K 2 QW A4
  1      TRESET
        U113-5 R92-1
  2      UUTUPRST
        R92-2 U162-11 J21-4 U164-3

R93 1 120 2 QW L1
  1      Q3
        J14-37 U85-3 J15-37 J13-37 J12-37 U117-12 R93-1
    
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                U154-2
    2           R93-2 C67-1

R94 1 120 2 QW L1
    1           PRE1M
                J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
                U97-25 U139-10 R94-1
    2           R94-2 C68-1

R95 1 120 2 QW L1
    1           PRE1M*
                J12-38 J13-38 J14-38 J15-38 U123-6 R95-1
    2           R95-2 C77-1

R96 1 120 2 QW M5
    1           PHO
                J15-19 U136-11 J14-19 J13-19 J12-19 U124-5 U65-37
                R96-1
    2           R96-2 C66-1

R97 2 33 2 QW E13
    1           ARO
                P16-4 R97-1 U2-7
    2           ARO
                R97-2 J17-10

R98 2 33 2 QW E13
    1           AR1
                P16-8 R98-1 U2-9
    2           AR1
                R98-2 J17-9

R99 2 33 2 QW F12
    1           AR5
                R99-1 U9-9 P16-7
    2           AR5
                R99-2 J17-5

R100 2 100 2 QW D12
    1           C14M
                U146-6 R100-1 U117-10 U119-9 U79-7 U85-11
    2           R100-2 C74-1 U4-11

R101 4 100K 2 QW A2
    1           Q3-2 Q2-3 R101-1
    2           GND

R102 6 470 2 QW L9
    1           +5V
    2           Q3*
                U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
                U131-5 R102-2 R103-1 U146-1
    
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R103 6 300 2 QW L9
  1      Q3*
      U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
      U131-5 R102-2 R103-1 U146-1
  2      GND

R106 1 1K 2 QW J8
  1      +5V
  2      S5A
      R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
      U173-10

R107 1 1K 2 QW H12
  1      +5V
  2      S5B
      R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
      U114-7 U116-5

R108 1 1K 2 QW D5
  1      +5V
  2      S5C
      R108-2 U140-1 U140-4 U140-10 U140-13

R109 1 1K 2 QW A10
  1      +5V
  2      S5D
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7

T1 4 4V 2 BAT G14
  1      R9-1 T1-1 X1-1 U105-10
  2      GND

U1 2 LS283 16 E11
  1      SUM2
      U1-1 U9-5
  2      V4
      U87-19 U1-2 U154-4 U120-12 U1-11
  3      H4
      U121-5 U1-3 U116-14
  4      SUM1
      U1-4 U5-11
  5      H3
      U114-11 U1-5 U121-6
  6      V3
      U120-13 U1-15 U154-5 U1-6
  7      GND
  8      GND
  9      NO CONNECTION
 10     SUM4
      U1-10 U2-3
    
```



11 V4
 U87-19 U1-2 U154-4 U120-12 U1-11
 12 GND
 13 SUM3
 U1-13 U9-11
 14 H5
 U121-4 U1-14 U116-13
 15 V3
 U120-13 U1-15 U154-5 U1-6
 16 +5V

U2 2 S153 16 F13

1 GND
 2 AX*
 U124-8 U2-2 U13-2 U9-2 U5-2 J17-23
 3 SUM4
 U1-10 U2-3
 4 A6
 J15-8 J14-8 J13-8 J12-8 U2-4 U77-3 U76-3
 U71-10 U63-5 U71-11
 5 H0
 U114-14 U2-5
 6 A0
 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
 7 ARO
 P16-4 R97-1 U2-7
 8 GND
 9 AR1
 P16-8 R98-1 U2-9
 10 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 11 H1
 U114-13 U2-11 U155-9
 12 AB
 J15-10 J14-10 J13-10 J12-10 U67-4 U74-1 U71-6
 U2-12 U13-6 U13-4
 13 V1
 U121-22 U2-13 U118-11 U13-5 U13-3
 14 AY*
 U13-14 U11-3 U9-14 U5-14 U2-14 U153-3 U6-15
 U3-1
 15 GND
 16 +5V

U3 2 7643 18 341-0056 C12

1 AY*
 U13-14 U11-3 U9-14 U5-14 U2-14 U153-3 U6-15
 U3-1
 2 RDHIRES
 U175-1 U11-17 U3-2 U6-3 U126-9



3 R/W*
 J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
 U176-6 U165-11 U160-11

4 A15
 J15-17 J14-17 J13-17 J12-17 U3-4 U147-3 U70-12
 U174-16 U6-7

5 A11
 J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
 U150-13 U74-5 U67-12 U3-5 U174-5

6 A13
 J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15
 U71-1 U70-7 U6-5 U3-6 U174-7

7 A14
 J15-16 J14-16 J13-16 J12-16 U3-7 U147-4 U70-9
 U6-16 U174-4

8 Q1
 U6-8 U131-4 U3-8 U124-12 U117-14

9 GND

10 GND

11 PCAS3*
 U128-2 U128-13 P1-6 U3-11 U4-8

12 PCAS0,3*
 P1-9 U3-12 B1-1

13 PUSELB
 U4-17 P1-8 U3-13

14 PCAS0*
 P1-7 U4-3 U3-14

15 PRAS0.3
 U128-5 U11-14 U12-1 U3-15 U6-4

16 PRAS1.2
 U12-4 U11-13 U3-16

17 ABK2
 U6-1 U11-6 U10-7 U3-17

18 +5V

U4 2 S374 20 D13

1 GND

2 CAS0*
 J17-17 U4-2

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12 AIISW*
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14 C-FXXX
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15 C-FXXX
 U71-15 U180-2 U71-14 U71-13 U147-6 U147-9 U165-1

16 +5V

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1 C07X*
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2 CLKRD
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3 U72-3 U112-12

4 NO CONNECTION

5 Z0
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6 Z1
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7 Z2
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8 Z3
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10 Y2-1 U72-10 C3-3

11 C4-1 U72-11 Y2-2

12 GND

13 CKIRQ*
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14 PDINT*
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15	ID0						
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16	ID1						
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17	ID2						
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18	ID3						
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19	ID4						
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20	ID5						
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21	ID6						
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22	ID7						
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23	PWRDN*						
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24	U72-24	Q1-1	X1-2				

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3	ROMSEL2						
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6	RESETLK*						
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7	SCRN						
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8	IOEN						
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9	SEL1M						
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10	Z0						
	U72-5	U132-4	U73-10				
11	Z1						
	U72-6	U67-5	U73-11				
12	Z2						
	U72-7	U67-11	U73-12				
13	Z3						
	U72-8	U67-14	U73-13				
14	Z4						
	U72-9	U70-2	U73-14				
15	Z5						
	U73-15	U70-5					
16	Z6						
	U73-16	U70-11					



17	Z7								
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18	SCO								
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19	SER								
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20	+5V								
21	IRQ*								
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22	IR/W*								
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23	FFDX*								
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24	CS6522								
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25	PRE1M								
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26	ID7								
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27	ID6								
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28	ID5								
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29	ID4								
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31	ID2								
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32	ID1								
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33	ID0								
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34	RESET*								
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35	A3								
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36	A2								
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37	A1								
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38	A0								
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39	SW1/MGNSWUF								
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40	IOIRQ								



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U74 4 LS138 16 J6

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2	A9	J15-11	J14-11	J13-11	J12-11	U5-4	U74-2	U71-5
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3	A10	J15-12	J14-12	J13-12	J12-12	U128-1	U74-3	U71-4
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4	GPH1	U162-3	U76-4	U141-6	U74-4			
5	A11	J15-13	J14-13	J13-13	J12-13	U128-12	U6-6	U71-3
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6	CXXX	U176-15	U74-6	U150-1	U147-8			
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8	GND							
9	C6XX*	U176-7	U74-9					
10		U74-10	U176-5					
11	IOSEL4*	U74-11	J15-1					
12	IOSEL3*	U74-12	J14-1					
13	IOSEL2*	U74-13	J13-1					
14	IOSEL1*	U74-14	J12-1					
15	COXX*	U77-5	U74-15	U76-5				
16	+5V							

U75 4 9334 16 H6

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5	MIX	U87-1	U75-5					
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 9 PDLO
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 13 AO
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 15 RESET*
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 16 +5V

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 3 A6
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 4 GPH1
 U162-3 U76-4 U141-6 U74-4
 5 COXX*
 U77-5 U74-15 U76-5
 6 A7
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 7 SEL6551*
 U98-3 U76-7 U148-12
 8 GND
 9 DEVSEL6*
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 10 DEVSEL5*
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 11 DEVSEL4*
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 12 DEVSEL3*
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 13 DEVSEL2*
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14 DEVSEL1*
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 15 NO CONNECTION
 16 +5V

U77 4 LS138 16 K7

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 5 COXX*
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 7 C07X*
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 8 GND
 9 C06X*
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 10 C05X*
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 11 C04X*
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 12 SPKR*
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 13 C02X*
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 14 CLRSTRB*
 U106-1 U77-14
 15 KBD*
 U109-15 U111-15 U77-15
 16 +5V

U78 5 LS374 20 E3

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 3 DV7
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 4 DV5
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 5 DC5
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6	DC3
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7	DV3
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8	DV1
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9	DC1
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10	GND
11	Q0
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12	DC0
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13	DV0
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15	DC2
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16	DC4
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17	DV4
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18	DV6
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19	DC6
	U78-19 U79-3 U81-11
20	+5V

U79 5 74166 16 F4

1	GND
2	DC7
	U79-2 U78-2 U82-14 U136-4
3	DC6
	U78-19 U79-3 U81-11
4	DC5
	U79-4 U78-5 U82-13
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6	U153-11 U79-6
7	C14M
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8	GND
9	RESET*
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10	DC3
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11	DC2
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12	DC1
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13 BT0
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 14 DC0
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 15 LDPS*
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 16 +5V

U80 5 LS374 20 F2

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 2 DV7
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 3 DB7
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 4 DB5
 J16-6 U69-6 U80-4
 5 DV5
 U82-3 U86-4 U78-4 U81-3 U80-5 U84-5
 6 DV3
 U82-2 U86-7 U78-7 U81-2 U80-6 U84-6
 7 DB3
 J16-4 U66-13 U80-7
 8 DB1
 J16-2 U66-6 U80-8
 9 DV1
 U82-1 U86-8 U78-8 U81-1 U80-9 U84-9
 10 GND
 11 C1M
 U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
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 12 DVO
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 13 DB0
 J16-1 U66-3 U80-13
 14 DB2
 J16-3 U66-10 U80-14
 15 DV2
 U82-16 U86-14 U78-14 U81-16 U80-15 U84-15
 16 DV4
 U82-15 U86-17 U78-17 U81-15 U80-16 U84-16
 17 DB4
 J16-5 U69-3 U80-17
 18 DB6
 J16-7 U69-10 U80-18
 19 DV6
 U78-18 U86-18 U82-4 U81-4 U80-19 U84-19
 20 +5V

U81 5 2114 18 E5

1 DV1
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2	DV3						
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3	DV5						
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4	DV6						
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5	VA						
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6	VB						
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7	VC						
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8	DHIRES						
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9	GND						
10	WE2114*						
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11	DC6						
	U78-19	U79-3	U81-11				
12	DC4						
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13	DC2						
	U79-11	U78-15	U81-13				
14	DC0						
	U79-14	U78-12	U81-14				
15	DV4						
	U82-15	U86-17	U78-17	U81-15	U80-16	U84-16	
16	DV2						
	U82-16	U86-14	U78-14	U81-16	U80-15	U84-15	
17	DV0						
	U82-17	U86-13	U78-13	U81-17	U80-12	U84-12	
18	+5V						

U82 5 2114 18 E4 .

1	DV1						
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2	DV3						
	U82-2	U86-7	U73-7	U81-2	U80-6	U84-6	
3	DV5						
	U82-3	U86-4	U78-4	U81-3	U80-5	U84-5	
4	DV6						
	U78-18	U86-18	U82-4	U81-4	U80-19	U84-19	
5	VA						
	U121-3	U175-5	U116-11	U82-5	U81-5		
6	VB						
	U121-2	U175-6	U118-14	U82-6	U81-6		
7	VC						
	U121-1	U175-7	U118-13	U83-15	U83-14	U82-7	U81-7
8	DHIRES						
	U83-10	U126-8	U82-8	U81-8	U87-17		
9	NO CONNECTION						
10	WE2114*						



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        U79-12 U78-9  U82-11
12      DC3
        U79-10 U78-6  U82-12
13      DC5
        U79-4  U78-5  U82-13
14      DC7
        U79-2  U78-2  U82-14  U136-4
15      DV4
        U82-15 U86-17 U78-17 U81-15 U80-16 U84-16
16      DV2
        U82-16 U86-14 U78-14 U81-16 U80-15 U84-15
17      DVO
        U82-17 U86-13 U78-13 U81-17 U80-12 U84-12
18      +5V

U83 5 S151 16 J3
1      BTO
        U88-3  U85-18 U162-5 U79-13 U83-4  U83-1
2      BT1
        U88-6  U83-2  U85-19 U85-17
3      BTO*
        U83-3  U162-6
4      BTO
        U88-3  U85-18 U162-5 U79-13 U83-4  U83-1
5      BTMUX
        U85-13 U83-5
6      NO CONNECTION
7      BL
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8      GND
9      AILLORES
        U83-9  U87-16
10     DHIRES
        U83-10 U126-8 U82-8  U81-8  U87-17
11     INV
        U83-11 U173-5
12     GND
13     GND
14     VC
        U121-1 U175-7 U118-13 U83-15 U83-14 U82-7 U81-7
15     VC
        U121-1 U175-7 U118-13 U83-15 U83-14 U82-7 U81-7
16     +5V

U84 5 LS374 20 E2
1      VAEN
        U84-1  U132-3
2      DV7
        U86-3  U78-3  U80-2  U84-2  U136-3  U136-2
3      DA7
    
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4	J16-16 U153-5 U84-3 U69-14 DA5
5	J15-14 U69-5 U84-4 DV5
6	U82-3 U86-4 U78-4 U81-3 U80-5 U84-5 DV3
7	U82-2 U86-7 U78-7 U81-2 U80-6 U84-6 DA3
8	J16-12 U66-14 U84-7 DA1
9	J16-10 U10-5 U84-8 U66-5 DV1
10	U82-1 U86-8 U78-8 U81-1 U80-9 U84-9 GND
11	C1M U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11 U84-11
12	DV0 U82-17 U86-13 U78-13 U81-17 U80-12 U84-12
13	DA0 J16-9 U10-4 U84-13 U66-2
14	DA2 J16-11 U10-12 U84-14 U66-11
15	DV2 U82-16 U86-14 U78-14 U81-16 U80-15 U84-15
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17	DA4 J16-13 U69-2 U84-17
18	DA6 J16-15 U69-11 U84-18
19	DV6 U78-18 U86-18 U82-4 U81-4 U80-19 U84-19
20	+5V

U85 5 LS374 20 G2

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4	C1M* U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2 U126-11 U85-4 U144-5 U132-12 U150-4
5	D1M* U85-5 U86-11
6	DBL U85-6 U88-15
7	SL U97-16 U83-7 U85-7 U126-16
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 U132-9 U85-9
 10 GND
 11 C14M
 U146-6 R100-1 U117-10 U119-9 U79-7 U85-11
 12 BTMUXD
 U85-12 U89-1
 13 BTMUX
 U85-13 U83-5
 14 BT2
 U88-10 U85-14 U85-16
 15 BT3
 U88-13 U85-15
 16 BT2
 U88-10 U85-14 U85-16
 17 BT1
 U88-6 U83-2 U85-19 U85-17
 18 BT0
 U88-3 U85-18 U162-5 U79-13 U83-4 U83-1
 19 BT1
 U88-6 U83-2 U85-19 U85-17
 20 +5V

U86 5 LS374 20 F3

1 OE374
 U87-15 U86-1
 2 DX7
 U89-4 U86-2 P8-6
 3 DV7
 U86-3 U78-3 U80-2 U84-2 U136-3 U136-2
 4 DV5
 U82-3 U86-4 U78-4 U81-3 U80-5 U84-5
 5 DX5
 U89-12 U86-5 P8-3
 6 DX3
 U88-2 U86-6 P13-4
 7 DV3
 U82-2 U86-7 U78-7 U81-2 U80-6 U84-6
 8 DV1
 U82-1 U86-8 U78-8 U81-1 U80-9 U84-9
 9 DX1
 U88-11 U86-9 P13-5
 10 GND
 11 DIM*
 U85-5 U86-11
 12 DX0
 U88-14 U86-12 P13-2
 13 DVO
 U82-17 U86-13 U78-13 U81-17 U80-12 U84-12
 14 DV2
 U82-16 U86-14 U78-14 U81-16 U80-15 U84-15



15	DX2					
	U88-5	U86-15	P13-3			
16	DX4					
	U89-13	U86-16	P8-4			
17	DV4					
	U82-15	U86-17	U78-17	U81-15	U80-16	U84-16
18	DV6					
	U78-18	U86-18	U82-4	U81-4	U80-19	U84-19
19	DX6					
	U89-5	U86-19	P8-5			
20	+5V					
U87 5	2316	24	341-0032	G5		
1	MIX					
	U87-1	U75-5				
2	HIRES					
	U87-2	U75-7				
3	AIISW*					
	U165-6	U71-12	U97-8	U178-1	U178-13	U177-15 U87-3
	U155-3					
4	PAGE2					
	U87-4	U75-6				
5	VBL					
	U175-15	U87-5	U97-19	U97-18	U121-19	U154-6
6	FORCPAGE					
	U87-6	P10-2	J20-7			
7	+5V					
8	GND					
9	PG2*					
	U87-9	U13-13				
10	SEL374					
	U87-10	U132-13	U132-1			
11	COLORKILL*					
	U147-13	U87-11	J20-9			
12	GND					
13	AHIRES					
	U88-1	U87-13	U141-1			
14	CH80*					
	U139-9	U153-12	U87-14			
15	OE374					
	U87-15	U86-1				
16	AILORES					
	U83-9	U87-16				
17	DHIRES					
	U83-10	U126-8	U82-8	U81-8	U87-17	
18	NO CONNECTION					
19	V4					
	U87-19	U1-2	U154-4	U120-12	U1-11	
20	GND					
21	+5V					
22	V2					
	U120-14	U154-10	U87-22			



23 TEXT
 U87-23 U75-4
 24 +5V

U88 5 LS157 16 G3

1 AHIRES
 U88-1 U87-13 U141-1
 2 DX3
 U88-2 U86-6 P13-4
 3 BT0
 U88-3 U85-18 U162-5 U79-13 U83-4 U83-1
 4 U89-3 U88-4
 5 DX2
 U88-5 U86-15 P13-3
 6 BT1
 U88-6 U83-2 U85-19 U85-17
 7 U89-6 U88-7
 8 GND
 9 U89-11 U88-9
 10 BT2
 U88-10 U85-14 U85-16
 11 DX1
 U88-11 U86-9 P13-5
 12 U89-14 U88-12
 13 BT3
 U88-13 U85-15
 14 DX0
 U88-14 U86-12 P13-2
 15 DBL
 U85-6 U88-15
 16 +5V

U89 5 LS399 16 H3

1 BTMUXD
 U85-12 U89-1
 2 RGB8
 J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
 U89-2
 3 U89-3 U88-4
 4 DX7
 U89-4 U86-2 P8-6
 5 DX6
 U89-5 U86-19 P8-5
 6 U89-6 U88-7
 7 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
 J20-4
 8 GND
 9 CKDSP
 U141-11 U89-9
 10 RGB2
 J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13



11 U89-10
 U89-11 U88-9
 12 DX5
 U89-12 U86-5 P8-3
 13 DX4
 U89-13 U86-16 P8-4
 14 U89-14 U88-12
 15 RGB1
 U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
 U90-12
 16 +5V

U90 5 LS153 16 L8

1 GND
 2 C3.5M*
 U135-13 U119-6 U147-1 U90-2
 3 RGB8
 J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
 U89-2
 4 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
 J20-4
 5 RGB2
 J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
 U89-10
 6 RGB1
 U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
 U90-12
 7 NTSCA
 P3-7 U90-7
 8 GND
 9 NTSCB*
 U163-9 U90-9
 10 RGB4
 P4-4 P17-4 P3-5 P10-7 U90-4 U90-10 U89-7
 J20-4
 11 RGB8
 J20-5 P4-5 P17-2 P3-6 P10-3 U90-11 U90-3
 U89-2
 12 RGB1
 U89-15 P17-8 P4-2 P3-3 J20-6 P10-4 U90-6
 U90-12
 13 RGB2
 J20-2 P17-6 P4-3 P3-4 P10-6 U90-5 U90-13
 U89-10
 14 C7M
 J15-36 J14-36 J13-36 J12-36 U141-9 U119-2 U146-12
 U90-14
 15 GND
 16 +5V

U91 6 LS323 20 K10



1 U92-7 U91-1
 2 DEVSEL6*
 U94-14 U76-9 U91-2
 3 IR*/W
 U91-3 U68-11 U158-2 U163-10
 4 D1
 J15-48 J14-48 J13-48 J12-48 U68-18 J15-18 U109-7
 U91-4 U66-7 P15-3
 5 D3
 J15-46 J14-46 J13-46 J12-46 U68-16 J16-20 U109-12
 U91-5 U66-12 P15-5
 6 D5
 J15-44 J14-44 J13-44 J12-44 U68-14 J16-22 U111-7
 U91-6 U69-7 P15-7
 7 D7
 J15-42 J14-42 J13-42 J12-42 U68-12 J16-24 U111-12
 U101-5 U91-7 U69-12 P15-9
 8 U92-2 U91-8
 9 U92-9 U91-9 R66-1
 10 GND
 11 DWRPROTT
 U167-17 U91-11
 12 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 13 D6
 J15-43 J14-43 J13-43 J12-43 U68-13 J16-23 U111-9
 U91-13 U69-9 P15-8
 14 D4
 J15-45 J14-45 J13-45 J12-45 U68-15 J16-21 U111-4
 U91-14 U69-4 P15-6
 15 D2
 J15-47 J14-47 J13-47 J12-47 U68-17 J16-19 U109-9
 U91-15 U66-9 P15-4
 16 D0
 J15-49 J14-49 J13-49 J12-49 U68-19 J16-17 U109-4
 U91-16 U66-4 P15-2
 17 NO CONNECTION
 18 U92-8 U91-18
 19 U92-6 U91-19
 20 +5V

U92 6 S471 20 341-0028 K11

1 U93-15 U92-1
 2 U92-2 U91-8
 3 U92-3 U94-11
 4 U163-13 U94-12 U92-4
 5 U161-11 U92-5 R67-2
 6 U92-6 U91-19
 7 U92-7 U91-1
 8 U92-8 U91-18
 9 U92-9 U91-9 R66-1



10 GND
 11 U93-6 U92-11
 12 U93-14 U92-12
 13 U93-4 U92-13
 14 U93-3 U92-14
 15 MOTON*
 U179-1 U92-15 U178-15 R65-2 U164-12 U92-16
 16 MOTON*
 U179-1 U92-15 U178-15 R65-2 U164-12 U92-16
 17 U93-7 U92-17
 18 U93-5 U92-18
 19 DWRDATA
 U166-18 U92-19 U93-2
 20 +5V

U93 6 LS174 16 K12

1 S5B
 R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
 U114-7 U116-5
 2 DWRDATA
 U166-18 U92-19 U93-2
 3 U93-3 U92-14
 4 U93-4 U92-13
 5 U93-5 U92-13
 6 U93-6 U92-11
 7 U93-7 U92-17
 8 GND
 9 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 10 U161-13 U93-10
 11 U93-12 U161-12 U93-11
 12 U93-12 U161-12 U93-11
 13 DRDATA
 U166-17 U93-13
 14 U93-14 U92-12
 15 U93-15 U92-1
 16 +5V

U94 6 9334 16 L13

1 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 2 A2
 J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
 U177-2 U94-2 U75-2 U73-36 U63-14
 3 A3
 J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
 U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
 4 VA1
 U166-12 U175-4 U94-4
 5 VB1



6	U167-12 U175-3 U94-5 VC1 U166-13 U175-2 U94-6
7	PDPH3 U167-13 U94-7
8	GND
9	MOTEN* U164-11 U94-9
10	DEXT* U167-18 U94-10 U178-2 U163-1
11	U92-3 U94-11
12	U163-13 U94-12 U92-4
13	A0 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
14	DEVSEL6* U94-14 U76-9 U91-2
15	IORESET* J12-31 J13-31 J14-31 J15-31 P14-6 U164-2 U164-4 U96-4 U94-15
16	+5V

U96 6-8 556 14 L10	
1	NO CONNECTION
2	DT1M R31-1 U164-10 C7-2 U96-2 U96-6
3	NO CONNECTION
4	IORESET* J12-31 J13-31 J14-31 J15-31 P14-6 U164-2 U164-4 U96-4 U94-15
5	MOTON U164-13 U96-5
6	DT1M R31-1 U164-10 C7-2 U96-2 U96-6
7	GND
8	U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1 X3-1 C75-1
9	U96-9 U139-1
10	U96-10 U162-2 U139-2
11	NO CONNECTION
12	U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1 X3-1 C75-1
13	U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1 X3-1 C75-1
14	+5V

U97 7 6522 40 B5	
1	GND
2	BKSW1 U97-2 U10-3
3	BKSW2 U97-3 U10-6



4 BKS_W3
U97-4 U10-11

5 NO CONNECTION

6 IRQ4*
U97-6 J15-30 P2-3 U148-5

7 IRQ3*
U97-7 J14-30 P2-4 U148-4

8 AIIS_W*
U165-6 U71-12 U97-8 U178-1 U178-13 U177-15 U87-3
U155-3

9 IRQ*
U97-21 U65-4 U98-26 U97-9 U73-21

10 S_ND0
P9-7 U97-10

11 S_ND1
P9-6 U97-11

12 S_ND2
P9-5 U97-12

13 S_ND3
P9-4 U97-13

14 S_ND4
P9-3 U97-14

15 S_ND5
P9-2 U97-15

16 BL
U97-16 U83-7 U85-7 U126-16

17 ION_MI*
J15-29 U97-17 J14-29 J13-29 U139-13 J12-29

18 VBL
U175-15 U87-5 U97-19 U97-18 U121-19 U154-6

19 VBL
U175-15 U87-5 U97-19 U97-18 U121-19 U154-6

20 +5V

21 IRQ*
U97-21 U65-4 U98-26 U97-9 U73-21

22 IR/W*
U98-28 U97-22 U112-14 U73-22 U163-11 U65-34 U160-12

23 FFEX*
U97-23 U148-10 U112-6

24 CS6522
R68-2 U73-24 C59-1 U97-24

25 PRE1M
J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
U97-25 U139-10 R94-1

26 ID7
U98-25 U65-26 U97-26 U72-22 U73-26 U64-17 U68-8

27 ID6
U98-24 U65-27 U97-27 U72-21 U73-27 U64-16 U68-7

28 ID5
U98-23 U65-28 U97-28 U72-20 U73-28 U64-15 U68-6

29 ID4
U98-22 U65-29 U97-29 U72-19 U73-29 U64-14 U68-5



```

30      ID3
        U98-21 U65-30 U97-30 U72-18 U73-30 U64-13 U68-4
31      ID2
        U98-20 U65-31 U97-31 U72-17 U73-31 U64-11 U68-3
32      ID1
        U98-19 U65-32 U97-32 U72-16 U73-32 U64-10 U68-2
33      ID0
        U98-18 U65-33 U97-33 U72-15 U73-33 U64-9 U68-1
34      RESET*
        U65-40 U162-10 U98-4 U97-34 U73-34 U75-15 U79-9
        U173-1
35      A3
        J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
        U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
36      A2
        J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
        U177-2 U94-2 U75-2 U73-36 U63-14
37      A1
        J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
        U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
38      A0
        J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
        U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
39      KBDINT*
        U106-6 U97-39
40      CKIRQ*
        U72-13 R79-2 U97-40
    
```

U98 7 6551 28 B2

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1      GND
2      +5V
3      SEL6551*
        U98-3 U76-7 U148-12
4      RESET*
        U65-40 U162-10 U98-4 U97-34 U73-34 U75-15 U79-9
        U173-1
5      NO CONNECTION
6      ACIACK
        U98-6 U140-5
7      NO CONNECTION
8      RTS*
        U99-12 U98-8
9      CTS*
        U100-6 U98-9
10     TXD*
        U99-4 U98-10
11     DTR*
        U99-9 U98-11
12     RXD*
        U100-3 U98-12
13     A0
        J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
    
```



14 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
 AI
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 15 +5V
 16 DCD*
 U100-11 U98-16
 17 DSR*
 U100-8 U98-17
 18 ID0
 U98-18 U65-33 U97-33 U72-15 U73-33 U64-9 U68-1
 19 ID1
 U98-19 U65-32 U97-32 U72-16 U73-32 U64-10 U68-2
 20 ID2
 U98-20 U65-31 U97-31 U72-17 U73-31 U64-11 U68-3
 21 ID3
 U98-21 U65-30 U97-30 U72-18 U73-30 U64-13 U68-4
 22 ID4
 U98-22 U65-29 U97-29 U72-19 U73-29 U64-14 U68-5
 23 ID5
 U98-23 U65-28 U97-28 U72-20 U73-28 U64-15 U68-6
 24 ID6
 U98-24 U65-27 U97-27 U72-21 U73-27 U64-16 U68-7
 25 ID7
 U98-25 U65-26 U97-26 U72-22 U73-26 U64-17 U68-8
 26 IRQ*
 U97-21 U65-4 U98-26 U97-9 U73-21
 27 C1M
 U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
 U84-11
 28 IR/W*
 U98-28 U97-22 U112-14 U73-22 U163-11 U65-34 U160-12

U99 7 1488 14 J2

1 -12V
 2 NO CONNECTION
 3 NO CONNECTION
 4 TXD*
 U99-4 U98-10
 5 +5V
 6 PTXD
 U172-12 U99-6
 7 GND
 8 PDTR
 U172-17 U99-8
 9 DTR*
 U99-9 U98-11
 10 +5V
 11 PRTS
 U172-14 U99-11
 12 RTS*
 U99-12 U98-8



13 +5V
14 +12V

U100 7 1489 14 K2

1 PRXD
U172-13 U100-1
2 NO CONNECTION
3 RXD*
U100-3 U98-12
4 PCTS
R87-2 U172-15 U100-4
5 NO CONNECTION
6 CTS*
U100-6 U98-9
7 GND
8 DSR*
U100-8 U98-17
9 NO CONNECTION
10 PDSR
R88-2 U172-16 U100-10
11 DCD*
U100-11 U98-16
12 NO CONNECTION
13 PDCD
R89-2 U172-18 U100-13
14 +5V

U101 7 LS251 16 L7

1 SCQ
U160-3 U73-18 U160-5 U101-1
2 SW2UF
U101-2 U169-14
3 SW1/MCNSWUF
R85-2 U169-19 U73-39 U101-3
4 SWOUF
U101-4 U169-13
5 D7
J15-42 J14-42 J13-42 J12-42 U68-12 J16-24 U111-12
U101-5 U91-7 U69-12 P15-9
6 NO CONNECTION
7 C06X*
U101-7 U77-9
8 GND
9 A2
J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
U177-2 U94-2 U75-2 U73-36 U63-14
10 A1
J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
11 A0
J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
U101-11 U94-13 U73-38 U75-13 U63-18 U177-13



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12      MUX1
        U101-12 U175-14 U5-13
13      PDLOT*
        U101-13 U105-7 R57-2
14      IRQ1*
        U101-14 J12-30 P2-7 U148-1
15      IRQ2*
        U101-15 J13-30 P2-6 U148-2
16      +5V

U103 7 380N-8N 8 M11
1      NO CONNECTION
2      C78-1 U103-2 R34-2 R36-1
3      GND
4      GND
5      GND
6      R69-2 U103-6
7      +12V
8      C13-1 U103-8

U105 7 9708 16 M9
1      AXCO
        U161-5 U75-12 U105-1
2      PDL2
        U160-4 U105-2 U75-10
3      PDLEN
        U105-3 U75-11
4      TCAP
        C15-1 U105-4
5      GND
6      U105-6 R39-2 C9-1
7      PDLOT*
        U101-13 U105-7 R57-2
8      U105-8 R37-2 R38-1 C76-1
9      NO CONNECTION
10     R9-1 T1-1 X1-1 U105-10
11     Y1/XCOUF
        U161-6 U169-17 U105-11
12     PX1/SER
        U105-12 U161-8 U160-9 U169-18
13     YOUF
        U105-13 U169-15
14     +5V
15     XOUF
        U105-15 U169-12
16     PDLO
        U105-16 U75-9

U106 8 LS74 14 H11
1      CLRSTRB*
        U106-1 U77-14
2      S5B

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15.75



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R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
U114-7 U116-5
3 U139-3 U106-3
4 S5B
R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
U114-7 U116-5
5 U106-5 U111-14
6 KBDINT*
U106-6 U97-39
7 GND
8 NO CONNECTION
9 KAPPLEII*
U106-9 X3-2 U111-6
10 S5B
R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
U114-7 U116-5
11 ANYKEY
U107-4 R40-1 X2-2 U106-11 U109-3
12 APPLEII*
J7-5 P11-5 U106-12 U164-5
13 S5B
R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
U114-7 U116-5
14 +5V

U107 8 AY3600 40 H14
1 C16-1 U107-1
2 U107-2 C16-2 R47-2
3 U107-3 R47-1
4 ANYKEY
U107-4 R40-1 X2-2 U106-11 U109-3
5 NO CONNECTION
6 KSHIFT*
U107-6 U109-6
7 ASCII7
U107-7 U111-13
8 ASCII6
U107-8 U111-11
9 ASCII5
U107-9 U111-5
10 ASCII4
U107-10 U111-2
11 ASCII3
U107-11 U109-14
12 ASCII2
U107-12 U109-11
13 ASCII1
U107-13 U109-5
14 ASCII0
U107-14 U109-2
15 GND
16 DTRDY*
    
```



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17      U107-16 U162-1
        KY0
        J7-1 U107-17
18      KY1
        J7-2 U107-18
19      KY2
        J7-4 U107-19
20      KY3
        J7-6 U107-20
21      KY4
        J7-8 U107-21
22      KY5
        J7-10 U107-22
23      KY6
        J7-23 U107-23
24      KY7
        J7-25 U107-24
25      KY8
        J7-12 U107-25
26      KY9
        J7-22 U107-26
27      -12FV
28      CONTROL*
        J7-11 U179-13 U107-28 U109-10 P11-2
29      SHIFT*
        J7-24 P11-6 U107-29
30      +5FV
31      U107-31 C22-1
32      NO CONNECTION
33      KX7UF
        U171-14 U107-33
34      KX6UF
        U171-19 U107-34
35      KX5UF
        U171-16 U107-35
36      KX4UF
        U171-18 U107-36
37      KX3UF
        U171-17 U107-37
38      KX2UF
        U171-13 U107-38
39      KX1UF
        U171-15 U107-39
40      KX0UF
        U171-12 U107-40

U109 8 LS257 16 J12
1      A3
        J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
        U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
2      ASCII0
        U107-14 U109-2
    
```



```

3      ANYKEY
      U107-4 R40-1 X2-2 U106-11 U109-3
4      DO
      J15-49 J14-49 J13-49 J12-49 U68-19 J16-17 U109-4
      U91-16 U66-4 P15-2
5      ASCII1
      U107-13 U109-5
6      KSHIFT*
      U107-6 U109-6
7      D1
      J15-48 J14-48 J13-48 J12-48 U68-18 J16-18 U109-7
      U91-4 U66-7 P15-3
8      GND
9      D2
      J15-47 J14-47 J13-47 J12-47 U68-17 J16-19 U109-9
      U91-15 U66-9 P15-4
10     CONTROL*
      J7-11 U179-13 U107-28 U109-10 P11-2
11     ASCII2
      U107-12 U109-11
12     D3
      J15-46 J14-46 J13-46 J12-46 U68-16 J16-20 U109-12
      U91-5 U66-12 P15-5
13     CAPLCK*
      J7-9 P11-3 U109-13
14     ASCII3
      U107-11 U109-14
15     KBD*
      U109-15 U111-15 U77-15
16     +5V

U111 8 LS257 16 H12
1      A3
      J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
      U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
2      ASCII4
      U107-10 U111-2
3      APPLE1*
      J7-7 P11-4 U111-3
4      D4
      J15-45 J14-45 J13-45 J12-45 U68-15 J16-21 U111-4
      U91-14 U69-4 P15-6
5      ASCII5
      U107-9 U111-5
6      KAPPLEII*
      U106-9 X3-2 U111-6
7      D5
      J15-44 J14-44 J13-44 J12-44 U68-14 J16-22 U111-7
      U91-6 U69-7 P15-7
8      GND
9      D6
      J15-43 J14-43 J13-43 J12-43 U68-13 J16-23 U111-9
    
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10      U91-13 U69-9 P15-8
11      Q9-3 R43-1 U111-10
11      ASCII6
11      U107-8 U111-11
12      D7
12      J15-42 J14-42 J13-42 J12-42 U68-12 J16-24 U111-12
12      U101-5 U91-7 U69-12 P15-9
13      ASCII7
13      U107-7 U111-13
14      U106-5 U111-14
15      KBD*
15      U109-15 U111-15 U77-15
16      +5V

U112 4 LS139 16 C8
1      U112-1 U71-9
2      A4
2      J15-6 J14-6 J13-6 J12-6 U9-6 U77-1 U76-1
2      U112-2 U63-9
3      A5
3      J15-7 J14-7 J13-7 J12-7 U9-10 U76-2 U77-2
3      U112-3 U63-7
4      FFCX*
4      U165-7 U112-4
5      FFDX*
5      U112-5 U73-23 U148-9
6      FFEX*
6      U97-23 U148-10 U112-6
7      NO CONNECTION
8      GND
9      NO CONNECTION
10     NO CONNECTION
11     NO CONNECTION
12     U72-3 U112-12
13     CO7X*
13     U180-6 U77-7 U112-13 U158-1 U72-1 U150-5 U148-13
14     IR/W*
14     U98-28 U97-22 U112-14 U73-22 U163-11 U65-34 U160-12
15     IOSTOPD*
15     U123-9 U112-15 U180-3
16     +5V

U113 8 556 14 A5
1      NO CONNECTION
2      UPRST*
2      C20-1 U113-6 U113-2 R44-2 X4-2 X6-1
3      NO CONNECTION
4      +5V
5      TRESET
5      U113-5 R92-1
6      UPRST*
6      C20-1 U113-6 U113-2 R44-2 X4-2 X6-1
    
```




7 GND
 8 U113-8 R46-2 U113-12 C21-1
 9 FLASH
 U113-9 U136-5
 +5V
 11 NO CONNECTION
 12 U113-8 R46-2 U113-12 C21-1
 13 U113-13 R45-2 R46-1
 14 +5V

U114 9 LS161 16 F10

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 CIM*
 U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
 U126-11 U85-4 U144-5 U132-12 U150-4
 3 GND
 4 GND
 5 GND
 6 GND
 7 S5B
 R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
 U114-7 U116-5
 8 GND
 9 HPE*
 U135-3 U152-2 U114-9 U116-9 U116-12
 10 S5B
 R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10
 U114-7 U116-5
 11 H3
 U114-11 U1-5 U121-6
 12 H2
 U121-7 U5-5 U114-12 U85-8
 13 H1
 U114-13 U2-11 U155-9
 14 H0
 U114-14 U2-5
 15 U116-10 U114-15 U116-7
 16 +5V

U116 9 LS161 16 F11

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 CIM*
 U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
 U126-11 U85-4 U144-5 U132-12 U150-4
 3 GND
 4 GND
 5 S5B
 R107-2 U106-2 U106-4 U106-10 U106-13 U93-1 U114-10



6 U114-7 U116-5
 COMP
 U116-6 U121-17 U118-3
 7 U116-10 U114-15 U116-7
 8 GND
 9 HPE*
 U135-3 U152-2 U114-9 U116-9 U116-12
 10 U116-10 U114-15 U116-7
 11 VA
 U121-3 U175-5 U116-11 U82-5 U81-5
 12 HPE*
 U135-3 U152-2 U114-9 U116-9 U116-12
 13 H5
 U121-4 U1-14 U116-13
 14 H4
 U121-5 U1-3 U116-14
 15 U118-5 U116-15 U118-10 U118-7
 16 +5V

U117 9 S195 16 D10

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 3 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 4 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
 U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
 5 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
 U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
 6 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
 U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
 7 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
 U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
 8 GND
 9 LDPS*
 U117-9 U79-15 U131-6
 10 C14M
 U146-6 R100-1 U117-10 U119-9 U79-7 U85-11
 11 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 12 Q3
 J14-37 U85-3 J15-37 J13-37 J12-37 U117-12 R93-1
 U154-2



13 NO CONNECTION
 14 Q1
 U6-8 U131-4 U3-8 U124-12 U117-14
 15 Q0
 U119-13 U150-10 U117-15 U131-2 U78-11
 16 +5V

U118 9 LS161 16 G11

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 CIM*
 U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
 U126-11 U85-4 U144-5 U132-12 U150-4
 3 COMP
 U116-6 U121-17 U118-3
 4 GND
 5 U118-5 U116-15 U118-10 U118-7
 6 S5060
 U120-3 U121-15 U118-6
 7 U118-5 U116-15 U118-10 U118-7
 8 GND
 9 UUTSUNK*
 J19-1 U118-9 U162-8 U120-9
 10 U118-5 U116-15 U118-10 U118-7
 11 V1
 U121-22 U2-13 U118-11 U13-5 U13-3
 12 VO
 U121-23 U13-11 U118-12
 13 VC
 U121-1 U175-7 U118-13 U83-15 U83-14 U82-7 U81-7
 14 VB
 U121-2 U175-6 U118-14 U82-6 U81-6
 15 U120-5 U118-15 U120-4 U120-10 U120-7
 16 +5V

U119 9 S175 16 B12

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 C7M
 J15-36 J14-36 J13-36 J12-36 U141-9 U119-2 U146-12
 U90-14
 3 C7M*
 U119-3 U153-13 U119-4
 4 C7M*
 U119-3 U153-13 U119-4
 5 U119-5 U146-11
 6 C3.5M*
 U135-13 U119-6 U147-1 U90-2
 7 C3.5M
 U132-10 U141-10 U146-13 U119-7 J20-3



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8      GND
9      C14M
      U146-6 R100-1 U117-10 U119-9 U79-7 U85-11
10     CIM
      U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
      U84-11
11     CIM*
      U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
      U126-11 U85-4 U144-5 U132-12 U150-4
12     PRE1M
      J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
      U97-25 U139-10 R94-1
13     QO
      U119-13 U150-10 U117-15 U131-2 U78-11
14     RAS
      U152-13 U150-9 U119-14 U12-2 U12-5 U12-10 U12-13
15     NO CONNECTION
16     +5V

U120 9 LS161 16 G12
1      UUTRST*
      U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
      U120-1 U118-1 U117-1
2      CIM*
      U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
      U126-11 U85-4 U144-5 U132-12 U150-4
3      S5060
      U120-3 U121-15 U118-6
4      U120-5 U118-15 U120-4 U120-10 U120-7
5      U120-5 U118-15 U120-4 U120-10 U120-7
6      GND
7      U120-5 U118-15 U120-4 U120-10 U120-7
8      GND
9      UUTSUNK*
      J19-1 U118-9 U162-8 U120-9
10     U120-5 U118-15 U120-4 U120-10 U120-7
11     V5
      U120-11 U154-9
12     V4
      U87-19 U1-2 U154-4 U120-12 U1-11
13     V3
      U120-13 U1-15 U154-5 U1-6
14     V2
      U120-14 U154-10 U87-22
15     U162-9 U120-15
16     +5V

U121 9 2316 24 341-0030 G9
1      VC
      U121-1 U175-7 U118-13 U83-15 U83-14 U82-7 U81-7
2      VB
      U121-2 U175-6 U118-14 U82-6 U81-6
    
```



3 VA
 U121-3 U175-5 U116-11 U82-5 U81-5
 4 H5
 U121-4 U1-14 U116-13
 5 H4
 U121-5 U1-3 U116-14
 6 H3
 U114-11 U1-5 U121-6
 7 H2
 U121-7 U5-5 U114-12 U85-8
 8 V2*V5
 U121-8 U154-8 U5-3
 9 RSYNCH
 U121-9 U126-4
 10 RCOLRGT
 U121-10 U126-7
 11 RTCWRT
 U126-13 U121-11
 12 GND
 13 RBL
 U121-13 U154-12
 14 RRFSH
 U121-14 U126-3
 15 S5060
 U120-3 U121-15 U118-6
 16 RFIELD
 U121-16 U126-18
 17 COMP
 U116-6 U121-17 U118-3
 18 FIELDIN
 J19-3 U121-18 R63-1
 19 VBL
 U175-15 U87-5 U97-19 U97-18 U121-19 U154-6
 20 GND
 21 +5V
 22 V1
 U121-22 U2-13 U118-11 U13-5 U13-3
 23 V0
 U121-23 U13-11 U118-12
 24 +5V

U123 9 S74 14 D11

1 UUTRST*
 U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
 U120-1 U118-1 U117-1
 2 CIM*
 U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
 U126-11 U85-4 U144-5 U132-12 U150-4
 3 AX
 U124-9 U123-3
 4 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4



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5      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
      PRE1M
      J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
      U97-25 U139-10 R94-1
6      PRE1M*
      J12-38 J13-38 J14-38 J15-38 U123-6 R95-1
7      GND
8      NO CONNECTION
9      IOSTOPD*
      U123-9 U112-15 U180-3
10     SSD
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
11     CIM
      U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
      U84-11
12     FSPACE*
      U180-1 U176-1 U165-12 U123-12 U148-8
13     SSD
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
14     +5V

U124 9 S74 14 A11
1      SSD
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
2      U124-2 U152-8
3      U124-3 U146-3
4      SSD
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
5      PHO
      J15-19 U136-11 J14-19 J13-19 J12-19 U124-5 U65-37
      R96-1
6      NO CONNECTION
7      GND
8      AX*
      U124-8 U2-2 U13-2 U9-2 U5-2 J17-23
9      AX
      U124-9 U123-3
10     SSD
      R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
      U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
11     C14M*
      U141-13 U146-8 U124-11 J21-2
12     Q1
      U6-8 U131-4 U3-8 U124-12 U117-14
13     UUTRST*
      U124-13 U119-1 U123-1 R53-2 U114-1 J21-3 U116-1
      U120-1 U118-1 U117-1
14     +5V
    
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U126 9 LS374 20 G10
1      GND
2      RFSH
      U158-13 U11-16 U126-2
3      RRFSH
      U121-14 U126-3
4      RSYNCH
      U121-9 U126-4
5      SYNCH
      J20-1 P17-10 U126-5 P3-2 P4-6
6      COLRGATE
      J20-8 U147-2 U126-6
7      RCOLRGT
      U121-10 U126-7
8      DHIRES
      U83-10 U126-8 U82-8 U81-8 U87-17
9      RDHIRES
      U175-1 U11-17 U3-2 U6-3 U126-9
10     GND
11     CIM*
      U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
      U126-11 U85-4 U144-5 U132-12 U150-4
12     TCWRT
      U126-12 U144-4
13     RTCWRT
      U126-13 U121-11
14     U126-14 U152-1 U154-11
15     U158-12 U126-15
16     BL
      U97-16 U83-7 U85-7 U126-16
17     U126-17 U152-3
18     RFIELD
      U121-16 U126-18
19     FIELDOUT
      U126-19 J19-2
20     +5V

U128 2 S86 14 E10
1      A10
      J15-12 J14-12 J13-12 J12-12 U128-1 U74-3 U71-4
      U67-9
2      PCAS3*
      U128-2 U128-13 P1-6 U3-11 U4-8
3      U5-12 U128-3
4      A13
      J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15
      U71-1 U70-7 U6-5 U3-6 U174-7
5      PRAS0.3
      U128-5 U11-14 U12-1 U3-15 U6-4
6      U128-9 U128-6
7      GND
    
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8	U13-12 U128-8
9	U128-9 U128-6
10	PCAS1*
	P1-3 U4-4 U6-12 U128-10
11	U9-4 U128-11
12	All
	J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
	U150-13 U74-5 U67-12 U3-5 U174-5
13	PCAS3*
	U128-2 U128-13 P1-6 U3-11 U4-8
14	+5V

U131	3-9 LS51	14	B11
1	U152-6 U144-10 U131-1		
2	Q0		
	U119-13 U150-10 U117-15 U131-2 U78-11		
3	U131-3 U135-5		
4	Q1		
	U6-8 U131-4 U3-8 U124-12 U117-14		
5	Q3*		
	U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12		
	U131-5 R102-2 R103-1 U146-1		
6	LDPS*		
	U117-9 U79-15 U131-6		
7	GND		
8	ZPAGE*		
	U11-1 U174-15 U67-1 U131-8 U70-1		
9	DMA1		
	U131-11 U163-6 U131-10 U131-9 U160-13		
10	DMA1		
	U131-11 U163-6 U131-10 U131-9 U160-13		
11	DMA1		
	U131-11 U163-6 U131-10 U131-9 U160-13		
12	U135-6 U131-12		
13	U144-9 U131-13 U155-4		
14	+5V		

U132	3-5-7 LS86	14	D4
1	SEL374		
	U87-10 U132-13 U132-1		
2	C1M		
	U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11		
	U84-11		
3	VAEN		
	U84-1 U132-3		
4	Z0		
	U72-5 U132-4 U73-10		
5	PPA8		
	U158-4 U152-4 U158-5 U65-17 U64-23 U132-5		
6	U67-2 U132-6		
7	GND		
8	U140-3 U132-8		

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9          DH2
          U132-9 U85-9
10         C3.5M
          U132-10 U141-10 U146-13 U119-7 J20-3
11         VBEN
          U80-1 U132-11
12         CIM*
          U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
          U126-11 U85-4 U144-5 U132-12 U150-4
13         SEL374
          U87-10 U132-13 U132-1
14         +5V

U135 3-9 LS260 14 C9
1         CIM
          U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
          U84-11
2         HPEDIS
          U135-2 J21-1 R54-1
3         HPE*
          U135-3 U152-2 U114-9 U116-9 U116-12
4         PA11
          U64-18 U144-12 U65-20 U67-13 U135-4
5         U131-3 U135-5
6         U135-6 U131-12
7         GND
8         PA13
          U65-23 U135-8 U70-6
9         PA12
          U65-22 U135-9 U70-3
10        PA15
          U135-10 U11-4 U70-13 U65-25
11        PA14
          U65-24 U135-11 U70-10
12        Q3*
          U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
          U131-5 R102-2 R103-1 U146-1
13        C3.5M*
          U135-13 U119-6 U147-1 U90-2
14        +5V

U136 2-5 LS51 14 H4
1         SYNC
          U65-7 U136-1 J15-35 U174-3 J14-35 J13-35 J12-35
2         DV7
          U86-3 U78-3 U80-2 U84-2 U136-3 U136-2
3         DV7
          U86-3 U78-3 U80-2 U84-2 U136-3 U136-2
4         DC7
          U79-2 U78-2 U82-14 U136-4
5         FLASH
          U113-9 U136-5
    
```



6 U173-2 U136-6
 7 GND
 8 CLKBK
 U136-8 U10-9
 9 R/W*
 J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
 U176-6 U165-11 U160-11
 10 IND*
 U136-10 U147-5 U174-12
 11 PHO
 J15-19 U136-11 J14-19 J13-19 J12-19 U124-5 U65-37
 R96-1
 12 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 13 NO CONNECTION
 14 +5V

U139 5-8 LS132 14 H10

1 U96-9 U139-1
 2 U96-10 U162-2 U139-2
 3 U139-3 U106-3
 4 U139-4 U139-11
 5 RESETLK*
 U179-14 U73-6 P19-5 U139-5
 6 NMI*
 U139-6 U65-6 U155-2
 7 GND
 8 U139-8 U154-1
 9 CH80*
 U139-9 U153-12 U87-14
 10 PRE1M
 J12-40 J13-40 J14-40 J15-40 U119-12 U73-25 U123-5
 U97-25 U139-10 R94-1
 11 U139-4 U139-11
 12 KRESET*
 U139-12 R80-1 C71-1 U179-15 J7-15
 13 IONMI*
 J15-29 U97-17 J14-29 J13-29 U139-13 J12-29
 14 +5V

U140 7-9 S74 14 D5

1 S5C
 R108-2 U140-1 U140-4 U140-10 U140-13
 2 U140-6 U140-2
 3 U140-3 U132-8
 4 S5C
 R108-2 U140-1 U140-4 U140-10 U140-13
 5 ACIACK
 U98-6 U140-5
 6 U140-6 U140-2
 7 GND



Apple Computer Inc.

8 NO CONNECTION
 9 U152-9 U140-9
 10 SSC
 R108-2 U140-1 U140-4 U140-10 U140-13
 11 U152-10 U152-11 U140-11
 12 PHASEN
 U140-12 U180-13
 13 SSC
 R108-2 U140-1 U140-4 U140-10 U140-13
 14 +5V

U141 4-5 LS00 14 H2

1 AHIRE5
 U88-1 U87-13 U141-1
 2 U141-2 U141-8
 3 U141-12 U141-3
 4 U141-4 U150-6
 5 PH2M
 P19-10 U141-5 U65-39 U176-17
 6 GPPI
 U162-3 U76-4 U141-6 U74-4
 7 GND
 8 U141-2 U141-8
 9 C7M
 J15-36 J14-36 J13-36 J12-36 U141-9 U119-2 U146-12
 U90-14
 10 C3.5M
 U132-10 U141-10 U146-13 U119-7 J20-3
 11 CKDSP
 U141-11 U89-9
 12 U141-12 U141-3
 13 C14M*
 U141-13 U146-8 U124-11 J21-2
 14 +5V

U144 3-5 LS20 14 B10

1 ENCWRT
 U177-10 U144-1
 2 Q0*
 U152-12 U144-2 U85-2
 3 NO CONNECTION.
 4 TCWRT
 U126-12 U144-4
 5 CIM*
 U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
 U126-11 U85-4 U144-5 U132-12 U150-4
 6 WE2114*
 U82-10 U175-16 U81-10 U144-6
 7 GND
 8 DMAOK
 U144-8 J12-27 J15-27 J14-27 J13-27
 9 U144-9 U131-13 U155-4



10 U152-6 U144-10 U131-1
 11 NO CONNECTION
 12 PA11
 U64-18 U144-12 U65-20 U67-13 U135-4
 13 TROMSEL
 U162-12 U144-13
 14 +5V

U146 9 S86 14 B13

1 Q3*
 U93-9 U136-12 U91-12 U117-11 U117-2 U117-3 U135-12
 U131-5 R102-2 R103-1 U146-1
 2
 Q11-3 R51-1 U146-10 U146-5 U146-2
 3 U124-3 U146-3
 4 SSD
 R109-2 U124-1 U124-4 U124-10 U10-13 U146-4 U123-4
 U123-10 U123-13 U117-4 U117-5 U117-6 U117-7
 5
 Q11-3 R51-1 U146-10 U146-5 U146-2
 6 C14M
 U146-6 R100-1 U117-10 U119-9 U79-7 U85-11
 7 GND
 8 C14M*
 U141-13 U146-8 U124-11 J21-2
 9 GND
 10
 Q11-3 R51-1 U146-10 U146-5 U146-2
 11 U119-5 U146-11
 12 C7M
 J15-36 J14-36 J13-36 J12-36 U141-9 U119-2 U146-12
 U90-14
 13 C3.5M
 U132-10 U141-10 U146-13 U119-7 J20-3
 14 +5V

U147 4-5 LS11 14 K8

1 C3.5M*
 U135-13 U119-6 U147-1 U90-2
 2 COLRGATE
 J20-8 U147-2 U126-6
 3 A15
 J15-17 J14-17 J13-17 J12-17 U3-4 U147-3 U70-12
 U174-16 U6-7
 4 A14
 J15-16 J14-16 J13-16 J12-16 U3-7 U147-4 U70-9
 U6-16 U174-4
 5 IND*
 U136-10 U147-5 U174-12
 6 C-FXXX
 U71-15 U180-2 U71-14 U71-13 U147-6 U147-9 U165-1
 7 GND



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8      CXXX
      U176-15 U74-6 U150-1 U147-8
9      C-FXXX
      U71-15 U180-2 U71-14 U71-13 U147-6 U147-9 U165-1
10     IOEN
      U73-8 P19-3 U147-10
11     U147-11 U155-13
12     COLORBURST
      R55-1 U147-12
13     COLORKILL*
      U147-13 U87-11 J20-9
14     +5V

U148 4 LS21 14 J4
1      IRQ1*
      U101-14 J12-30 P2-7 U148-1
2      IRQ2*
      U101-15 J13-30 P2-6 U148-2
3      NO CONNECTION
4      IRQ3*
      U97-7 J14-30 P2-4 U148-4
5      IRQ4*
      U97-6 J15-30 P2-3 U148-5
6      U155-8 U148-6
7      GND
8      FSPACE*
      U180-1 U176-1 U165-12 U123-12 U148-8
9      FFDX*
      U112-5 U73-23 U148-9
10     FFEX*
      U97-23 U148-10 U112-6
11     NO CONNECTION
12     SEL6551*
      U98-3 U76-7 U148-12
13     C07X*
      U180-6 U77-7 U112-13 U158-1 U72-1 U150-5 U148-13
14     +5V

U150 2-4 S10 14 E9
1      CXXX
      U176-15 U74-6 U150-1 U147-8
2      GPH2
      U150-2 U77-6 U162-4
3      SELIM
      U180-15 U174-2 U150-3 U73-9 P19-2
4      CIM*
      U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
      U126-11 U85-4 U144-5 U132-12 U150-4
5      C07X*
      U180-6 U77-7 U112-13 U158-1 U72-1 U150-5 U148-13
6      U141-4 U150-6
7      GND
    
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8      RAMR/W*
      J17-11 U150-8
9      RAS
      U152-13 U150-9 U119-14 U12-2 U12-5 U12-10 U12-13
10     Q0
      U119-13 U150-10 U117-15 U131-2 U78-11
11     WRAMEN
      U180-12 U150-11
12     IOSTRB*
      J15-20 U150-12 J14-20 J13-20 J12-20
13     A11
      J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
      U150-13 U74-5 U67-12 U3-5 U174-5
14     +5V

U152 3-9 LS00 14 E7
1      U126-14 U152-1 U154-11
2      HPE*
      U135-3 U152-2 U114-9 U116-9 U116-12
3      U126-17 U152-3
4      PPA8
      U158-4 U152-4 U158-5 U65-17 U64-23 U132-5
5      U158-8 U152-5
6      U152-6 U144-10 U131-1
7      GND
8      U124-2 U152-8
9      U152-9 U140-9
10     U152-10 U152-11 U140-11
11     U152-10 U152-11 U140-11
12     Q0*
      U152-12 U144-2 U85-2
13     RAS
      U152-13 U150-9 U119-14 U12-2 U12-5 U12-10 U12-13
14     +5V

U153 2-4-5 LS08 14 E8
1      U158-11 U153-1 U180-4
2      CIM*
      U153-2 U123-2 U119-11 U120-2 U118-2 U116-2 U114-2
      U126-11 U85-4 U144-5 U132-12 U150-4
3      AY*
      U13-14 U11-3 U9-14 U5-14 U2-14 U153-3 U6-15
      U3-1
4      S399
      U174-14 U153-4
5      DA7
      J16-16 U153-5 U84-3 U69-14
6      U10-1 U153-6
7      GND
8      TROMSEL*
      U153-8 U162-13 U64-20
9      DMAI*
    
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	U176-2	J12-28	J15-28	J14-28	J13-28	U163-5	P14-2
	U153-9						
10	ROMSEL*						
	U153-10	U165-9	U176-3				
11	U153-11	U79-6					
12	CH80*						
	U139-9	U153-12	U87-14				
13	C7M*						
	U119-3	U153-13	U119-4				
14	+5V						
U154	5-9	LS08	14	F8			
1	U139-8	U154-1					
2	Q3						
	J14-37	U85-3	J15-37	J13-37	J12-37	U117-12	R93-1
	U154-2						
3	U173-3	U154-3					
4	V4						
	U87-19	U1-2	U154-4	U120-12	U1-11		
5	V3						
	U120-13	U1-15	U154-5	U1-6			
6	VBL						
	U175-15	U87-5	U97-19	U97-18	U121-19	U154-6	
7	GND						
8	V2*V5						
	U121-8	U154-8	U5-3				
9	V5						
	U120-11	U154-9					
10	V2						
	U120-14	U154-10	U87-22				
11	U126-14	U152-1	U154-11				
12	RBL						
	U121-13	U154-12					
13	SCRN						
	U154-13	U73-7	P19-4				
14	+5V						
U155	3-4-8	LS02	14	D9			
1	U155-1	U164-1					
2	NMI*						
	U139-6	U65-6	U155-2				
3	AIISW*						
	U165-6	U71-12	U97-8	U178-1	U178-13	U177-15	U87-3
	U155-3						
4	U144-9	U131-13	U155-4				
5	PA9						
	U64-22	U155-5	U65-18	U67-6			
6	PA10						
	U64-19	U155-6	U65-19	U67-10			
7	GND						
8	U155-8	U148-6					
9	H1						



10 U114-13 U2-11 U155-9
 IOIRQ
 U73-40 U155-10
 11 A12
 J15-14 J14-14 J13-14 J12-14 U9-12 U155-11 U165-14
 U70-4 U71-2 U174-6
 12 A13
 J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15
 U71-1 U70-7 U6-5 U3-6 U174-7
 13 U147-11 U155-13
 14 +5V

U158 3-4-9 LS32 14 J8
 1 C07X*
 U180-6 U77-7 U112-13 U158-1 U72-1 U150-5 U148-13
 2 IR*/W
 U91-3 U68-11 U158-2 U163-10
 3 CLKRD
 U72-2 U158-3
 4 PPA8
 U158-4 U152-4 U158-5 U65-17 U64-23 U132-5
 5 PPA8
 U158-4 U152-4 U158-5 U65-17 U64-23 U132-5
 6 PA8
 U11-2 U174-17 U67-3 U158-6
 7 GND
 8 U158-8 U152-5
 9 PRIMSTK
 U73-4 P19-7 U158-9
 10 ABK4
 U11-15 U174-1 U10-15 U158-10
 11 U158-11 U153-1 U180-4
 12 U158-12 U126-15
 13 RFSH
 U158-13 U11-16 U126-2
 14 +5V

U160 3-7 LS125 14 J9
 1 ENSEL
 U161-4 U160-1 U177-11 U161-1
 2 PSW3/SCO
 U169-16 U161-3 U160-2
 3 SCO
 U160-3 U73-18 U160-5 U101-1
 4 PDL2
 U160-4 U105-2 U75-10
 5 SCO
 U160-3 U73-18 U160-5 U101-1
 6 R86-1 U160-6 U161-2
 7 GND
 8 SER
 U73-19 U160-8 U161-9



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9      PX1/SER
      U105-12 U161-8 U160-9 U169-18
10     ENSIO
      U160-10 U177-12 U161-10
11     R/W*
      J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
      U176-6 U165-11 U160-11
12     IR/W*
      U98-28 U97-22 U112-14 U73-22 U163-11 U65-34 U160-12
13     DMA1
      U131-11 U163-6 U131-10 U131-9 U160-13
14     +5V

U161 6-7 LS126 14 J10
1      ENSEL
      U161-4 U160-1 U177-11 U161-1
2      R86-1 U160-6 U161-2
3      PSW3/SCO
      U169-16 U161-3 U160-2
4      ENSEL
      U161-4 U160-1 U177-11 U161-1
5      AXCO
      U161-5 U75-12 U105-1
6      Y1/XCOUF
      U161-6 U169-17 U105-11
7      GND
8      PX1/SER
      U105-12 U161-8 U160-9 U169-18
9      SER
      U73-19 U160-8 U161-9
10     ENSIO
      U160-10 U177-12 U161-10
11     U161-11 U92-5 R67-2
12     U93-12 U161-12 U93-11
13     U161-13 U93-10
14     +5V

U162 3-4-5-8-9 LS04 14 H8
1      DTRDY*
      U107-16 U162-1
2      U96-10 U162-2 U139-2
3      GPH1
      U162-3 U76-4 U141-6 U74-4
4      GPH2
      U150-2 U77-6 U162-4
5      BTO
      U88-3 U85-18 U162-5 U79-13 U83-4 U83-1
6      BTO*
      U83-3 U162-6
7      GND
8      UUTSUNK*
      J19-1 U118-9 U162-8 U120-9
    
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9          U162-9 U120-15
10         RESET*
          U65-40 U162-10 U98-4 U97-34 U73-34 U75-15 U79-9
          U173-1
11         UUTUPRST
          R92-2 U162-11 J21-4 U164-3
12         TROMSEL
          U162-12 U144-13
13         TROMSEL*
          U153-8 U162-13 U64-20
14         +5V

U163 3-5-6 LS04 14 K9
1         DEXT*
          U167-18 U94-10 U178-2 U163-1
2         PINT*
          U167-19 U163-2 U178-5
3         TSADB*
          J15-22 J12-22 J14-22 J13-22 U163-3 P14-3
4         U70-15 U163-4 U67-15 U63-19 U63-1
5         DMAI*
          U176-2 J12-28 J15-28 J14-28 J13-28 U163-5 P14-2
          U153-9
6         DMA1
          U131-11 U163-6 U131-10 U131-9 U160-13
7         GND
8         NTSCB
          P3-8 U163-8
9         NTSCB*
          U163-9 U90-9
10        IR*/W
          U91-3 U68-11 U158-2 U163-10
11        IR/W*
          U98-28 U97-22 U112-14 U73-22 U163-11 U65-34 U160-12
12        DWRREQ
          U166-14 U163-12
13        U163-13 U94-12 U92-4
14        +5V

U164 2-6-8 LS05 14 H9
1         U155-1 U164-1
2         IORESET*
          J12-31 J13-31 J14-31 J15-31 P14-6 U164-2 U164-4
          U96-4 U94-15
3         UUTUPRST
          R92-2 U162-11 J21-4 U164-3
4         IORESET*
          J12-31 J13-31 J14-31 J15-31 P14-6 U164-2 U164-4
          U96-4 U94-15
5         APPLEII*
          J7-5 P11-5 U106-12 U164-5
6         U164-6 C17-2 X5-2 C75-2
    
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7 GND
 8 RDY
 J15-21 U164-8 J14-21 J13-21 J12-21 P14-4 U65-2
 9 PRDY
 U164-9 U174-13
 10 DTIM
 R31-1 U164-10 C7-2 U96-2 U96-6
 11 MOTEN*
 U164-11 U94-9
 12 MOTON*
 U179-1 U92-15 U178-15 R65-2 U164-12 U92-16
 13 MOTON
 U164-13 U96-5
 14 +5V

U165 4 LS133 16 J7
 1 C-FXXX
 U71-15 U180-2 U71-14 U71-13 U147-6 U147-9 U165-1
 2 S5A
 R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
 U173-10
 3 S5A
 R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
 U173-10
 4 S5A
 R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
 U173-10
 5 S5A
 R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
 U173-10
 6 AIISW*
 U165-6 U71-12 U97-8 U178-1 U178-13 U177-15 U87-3
 U155-3
 7 FFCX*
 U165-7 U112-4
 8 GND
 9 ROMSEL*
 U153-10 U165-9 U176-3
 10 ROMSEL1
 U165-10 U73-2 P19-9
 11 R/W*
 J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
 U176-6 U165-11 U160-11
 12 FSPACE*
 U180-1 U176-1 U165-12 U123-12 U148-8
 13 INH*
 J15-32 J14-32 J13-32 J12-32 U176-4 U165-13 P14-5
 14 A12
 J15-14 J14-14 J13-14 J12-14 U9-12 U155-11 U165-14
 U70-4 U71-2 U174-6
 15 A13
 J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15



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16          U71-1 U70-7 U6-5 U3-6 U174-7
          +5V

U166 6 FILTER 20 N13
1          GNDF
2          ENBL3.E*
          J1-21 U166-2
3          WRDATA
          J6-18 U166-3 J1-13
4          RDDATA
          J6-16 U166-4 J1-16
5          ENBL1.E*
          J1-14 U166-5
6          ENBL1.I*
          J6-14 U166-6
7          WRREQ
          J6-10 U166-7 J1-10
8          DPH2
          J6-6 U166-8 J1-6
9          DPHO
          J6-2 U166-9 J1-2
10         GNDF
11         GNDF
12         VA1
          U166-12 U175-4 U94-4
13         VC1
          U166-13 U175-2 U94-6
14         DWRREQ
          U166-14 U163-12
15         PENBL1,I*
          U166-15 U178-4
16         PENBLE*
          U166-16 U178-7
17         DRDATA
          U166-17 U93-13
18         DWRDATA
          U166-18 U92-19 U93-2
19         PENBL3,E*
          U166-19 U179-7
20         GNDF

U167 6 FILTER 20 M13
1          GNDF
2          EXT*
          J1-26 U167-2
3          INT*
          J6-26 U167-3
4          WRPROT
          J6-20 U167-4 J1-20
5          AII*
          U167-5 J1-23 J6-23
6          ENBL2.E*

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7 J1-22 U167-6
 SIDE2/1
 J6-24 U167-7 J1-24
 8 DPH3
 J6-8 U167-8 J1-8
 9 DPH1
 J6-4 U167-9 J1-4
 10 GNDF
 11 GNDF
 12 VB1
 U167-12 U175-3 U94-5
 13 PDPH3
 U167-13 U94-7
 14 PSIDE
 U167-14 U177-7
 15 PENBL2,E*
 U167-15 U179-6
 16 PAII
 U178-12 U167-16
 17 DWRPROTT
 U167-17 U91-11
 18 DEXT*
 U167-18 U94-10 U178-2 U163-1
 19 PINT*
 U167-19 U163-2 U178-5
 20 GNDF

U169 7 FILTER 20 N10
 1 GNDF
 2 SW1/MGNSW
 J3-5 U169-2
 3 X1/SER
 J3-4 U169-3
 4 Y1/XCO
 J3-8 U169-4
 5 SW3/SCO
 J3-9 U169-5
 6 YO
 U169-6 J2-8
 7 SW2
 U169-7 J2-5
 8 SWO
 U169-8 J2-9
 9 XO
 U169-9 J2-4
 10 GNDF
 11 GNDF
 12 XOUF
 U105-15 U169-12
 13 SWOUF
 U101-4 U169-13
 14 SW2UF

15.100



15 U101-2 U169-14
 YOUF
 U105-13 U169-15
 16 PSW3/SCO
 U169-16 U161-3 U160-2
 17 Y1/XCOUF
 U161-6 U169-17 U105-11
 18 PX1/SER
 U105-12 U161-8 U160-9 U169-18
 19 SW1/MGNSWUF
 R85-2 U169-19 U73-39 U101-3
 20 GNDF

U171 8 FILTER 20 K13

1 GNDF
 2 KX6
 J7-26 U171-2
 3 KX4
 J7-21 U171-3
 4 KX3
 J7-20 U171-4
 5 KX5
 J7-19 U171-5
 6 KX1
 J7-18 U171-6
 7 KX7
 J7-17 U171-7
 8 KX2
 J7-16 U171-8
 9 KX0
 J7-14 U171-9
 10 GNDF
 11 GNDF
 12 KXOUF
 U171-12 U107-40
 13 KX2UF
 U171-13 U107-38
 14 KX7UF
 U171-14 U107-33
 15 KX1UF
 U171-15 U107-39
 16 KX5UF
 U171-16 U107-35
 17 KX3UF
 U171-17 U107-37
 18 KX4UF
 U171-18 U107-36
 19 KX6UF
 U171-19 U107-34
 20 GNDF

U172 7 FILTER 20 N3

15.101



1 GNDF
 2 EXTSPK2
 J11-2 U172-2
 3 DCD
 J4-8 U172-3
 4 DTR
 J4-20 U172-4
 5 DSR
 J4-6 U172-5
 6 CTS
 J4-5 U172-6
 7 RTS
 J4-4 U172-7
 8 DATA IN
 J4-3 U172-8
 9 TXD
 J4-2 U172-9
 10 GNDF
 11 GNDF
 12 PTXD
 U172-12 U99-6
 13 PRXD
 U172-13 U100-1
 14 PRTS
 U172-14 U99-11
 15 PCTS
 R87-2 U172-15 U100-4
 16 PDSR
 R88-2 U172-16 U100-10
 17 PDTR
 U172-17 U99-8
 18 PDCD
 R89-2 U172-18 U100-13
 19 PEXTSPK
 U172-19 C10-2
 20 GNDF

U173 5-7 LS74 14 H7

1 RESET*
 U65-40 U162-10 U98-4 U97-34 U73-34 U75-15 U79-9
 U173-1
 2 U173-2 U136-6
 3 U173-3 U154-3
 4 S5A
 R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
 U173-10
 5 INV
 U83-11 U173-5
 6 NO CONNECTION
 7 GND
 8 U173-8 U173-12
 9 AIISPKR



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10      R35-1 U173-9
        SSA
        R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
        U173-10
11      SPKR*
        U173-11 U77-12
12      U173-8 U173-12
13      SSA
        R106-2 U165-2 U165-3 U165-4 U165-5 U173-4 U173-13
        U173-10
14      +5V

U174 2 7643 18 341-0043 C10
1      ABK4
        U11-15 U174-1 U10-15 U158-10
2      SELIM
        U180-15 U174-2 U150-3 U73-9 P19-2
3      SYNC
        U65-7 U136-1 J15-35 U174-3 J14-35 J13-35 J12-35
4      A14
        J15-16 J14-16 J13-16 J12-16 U3-7 U147-4 U70-9
        U6-16 U174-4
5      A11
        J15-13 J14-13 J13-13 J12-13 U128-12 U6-6 U71-3
        U150-13 U74-5 U67-12 U3-5 U174-5
6      A12
        J15-14 J14-14 J13-14 J12-14 U9-12 U155-11 U165-14
        U70-4 U71-2 U174-6
7      A13
        J15-15 J14-15 J13-15 J12-15 U128-4 U155-12 U165-15
        U71-1 U70-7 U6-5 U3-6 U174-7
8      GND
9      GND
10     GND
11     NO CONNECTION
12     IND*
        U136-10 U147-5 U174-12
13     PRDY
        U164-9 U174-13
14     S399
        U174-14 U153-4
15     ZPAGE*
        U11-1 U174-15 U67-1 U131-8 U70-1
16     A15
        J15-17 J14-17 J13-17 J12-17 U3-4 U147-3 U70-12
        U174-16 U6-7
17     PA8
        U11-2 U174-17 U67-3 U158-6
18     +5V

U175 2 7643 18 341-0055 F9
1      RDHIRES
    
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2 U175-1 U11-17 U3-2 U6-3 U126-9
 VC1
 U166-13 U175-2 U94-6
 3 VBI
 U167-12 U175-3 U94-5
 4 VA1
 U166-12 U175-4 U94-4
 5 VA
 U121-3 U175-5 U116-11 U82-5 U81-5
 6 VB
 U121-2 U175-6 U118-14 U82-6 U81-6
 7 VC
 U121-1 U175-7 U118-13 U83-15 U83-14 U82-7 U81-7
 8 GND
 9 GND
 10 GND
 11 ENHREG*
 U175-11 U78-1
 12 MUX3
 U9-13 U175-12
 13 MUX2
 U9-3 U175-13
 14 MUX1
 U101-12 U175-14 U5-13
 15 VBL
 U175-15 U87-5 U97-19 U97-18 U121-19 U154-6
 16 WE2114*
 U82-10 U175-16 U81-10 U144-6
 17 SCR
 U177-9 U175-17
 18 +5V

U176 4 7643 18 341-0045 F5
 1 FSPACE*
 U180-1 U176-1 U165-12 U123-12 U148-8
 2 DMAI*
 U176-2 J12-28 J15-28 J14-28 J13-28 U163-5 P14-2
 U153-9
 3 ROMSEL*
 U153-10 U165-9 U176-3
 4 INH*
 J15-32 J14-32 J13-32 J12-32 U176-4 U165-13 P14-5
 5 U74-10 U176-5
 6 R/W*
 J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
 U176-6 U165-11 U160-11
 7 C6XX*
 U176-7 U74-9
 8 GND
 9 GND
 10 GND
 11 RAMEN



12 U180-7 U176-11
 NO CONNECTION
 13 EN8304
 U176-13 U68-9
 14 EN257
 U176-14 U66-15 U69-15
 15 CXXX
 U176-15 U74-6 U150-1 U147-8
 16 C7XX*
 U176-16 U74-7
 17 PH2M
 P19-10 U141-5 U65-39 U176-17
 18 +5V

U177 6 9334 16 L12

1 A1
 J15-3 J14-3 J13-3 J12-3 U2-10 U97-37 U98-14
 U101-10 U177-1 U94-1 U73-37 U75-1 U63-16
 2 A2
 J15-4 J14-4 J13-4 J12-4 U5-6 U101-9 U97-36
 U177-2 U94-2 U75-2 U73-36 U63-14
 3 A3
 J15-5 J14-5 J13-5 J12-5 U5-10 U109-1 U111-1
 U97-35 U177-3 U94-3 U75-3 U73-35 U63-12
 4 EXT0
 U179-2 U177-4
 5 EXT1
 U179-3 U177-5
 6 INTON
 U177-6 U178-3
 7 PSIDE
 U167-14 U177-7
 8 GND
 9 SCR
 U177-9 U175-17
 10 ENCWRT
 U177-10 U144-1
 11 ENSEL
 U161-4 U160-1 U177-11 U161-1
 12 ENSIO
 U160-10 U177-12 U161-10
 13 A0
 J15-2 J14-2 J13-2 J12-2 U2-6 U97-38 U98-13
 U101-11 U94-13 U73-38 U75-13 U63-18 U177-13
 14 DEVSEL5*
 U177-14 U76-10
 15 AIISW*
 U165-6 U71-12 U97-8 U178-1 U178-13 U177-15 U87-3
 U155-3
 16 +5V

U178 3-6 LS257 16 L11



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1      AIISW*
      U165-6 U71-12 U97-8 U178-1 U178-13 U177-15 U87-3
      U155-3
2      DEXT*
      U167-18 U94-10 U178-2 U163-1
3      INTON
      U177-6 U178-3
4      PENBL1,I*
      U166-15 U178-4
5      PINT*
      U167-19 U163-2 U178-5
6      NENBLE*
      U179-5 U178-6
7      PENBLE*
      U166-16 U178-7
8      GND
9      NO CONNECTION
10     NO CONNECTION
11     NO CONNECTION
12     PAII
      U178-12 U167-16
13     AIISW*
      U165-6 U71-12 U97-8 U178-1 U178-13 U177-15 U87-3
      U155-3
14     GND
15     MOTON*
      U179-1 U92-15 U178-15 R65-2 U164-12 U92-16
16     +5V

U179 6-8 LS139 16 J11
1      MOTON*
      U179-1 U92-15 U178-15 R65-2 U164-12 U92-16
2      EXTO
      U179-2 U177-4
3      EXT1
      U179-3 U177-5
4      NO CONNECTION
5      NENBLE*
      U179-5 U178-6
6      PENBL2,E*
      U167-15 U179-6
7      PENBL3,E*
      U166-19 U179-7
8      GND
9      NO CONNECTION
10     NO CONNECTION
11     X6-2 U179-11
12     NO CONNECTION
13     CONTROL*
      J7-11 U179-13 U107-28 U109-10 P11-2
14     RESETLK*
      U179-14 U73-6 P19-5 U139-5
    
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15.106



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,          KRESET*
          U139-12 R80-1 C71-1 U179-15 J7-15
16        +5V

, 9 7643 18 341-0046 F7
1          FSPACE*
          U180-1 U176-1 U165-12 U123-12 U148-8
2          C-FXXX
          U71-15 U180-2 U71-14 U71-13 U147-6 U147-9 U165-1
3          IOSTOPD*
          U123-9 U112-15 U180-3
4          U158-11 U153-1 U180-4
5          CIM
          U132-2 U135-1 U119-10 U123-11 U180-5 U98-27 U80-11
          U84-11
6          CO7X*
          U180-6 U77-7 U112-13 U158-1 U72-1 U150-5 U148-13
7          RAMEN
          U180-7 U176-11
8          GND
9          GND
10         GND
11         NO CONNECTION
12         WRAMEN
          U180-12 U150-11 .
13         PHASEN
          U140-12 U180-13
14         PCS6522
          R68-1 U180-14
15         SEL1M
          U180-15 U174-2 U150-3 U73-9 P19-2
16         RWPR
          U73-5 P19-6 U180-16
17         R/W*
          J15-18 J14-18 J13-18 J12-18 U3-3 U136-9 U180-17
          U176-6 U165-11 U160-11
18        +5V
    
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J181 7 556 14 A7
1          C69-2 R75-2 U181-1 U181-2
2          C69-2 R75-2 U181-1 U181-2
3          NO CONNECTION
4          +5V
5          U181-5 U181-10
6          CO4X*
          U77-11 U181-6
7          GND
8          R77-2 U181-8 U181-12 C70-1
9          U181-9 R78-1
10         U181-5 U181-10
11         NO CONNECTION
12         R77-2 U181-8 U181-12 C70-1
    
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13      R76-2 R77-1 U181-13
14      +5V

X1 4 SCHOTTKY 2 DIODE A2
1      R9-1 T1-1 X1-1 U105-10
2      U72-24 Q1-1 X1-2

X2 3 1N4148 2 DIODE L10
1      U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
      X3-1 C75-1
2      ANYKEY
      U107-4 R40-1 X2-2 U106-11 U109-3

X3 8 1N4148 2 DIODE L11
1      U96-13 U96-12 U96-8 R40-2 X2-1 C18-1 C17-1
      X3-1 C75-1
2      KAPPLEII*
      U106-9 X3-2 U111-6

X4 8 1N4148 2 DIODE A5
1      +5V
2      UPRST*
      C20-1 U113-6 U113-2 R44-2 X4-2 X6-1

X5 8 1N4148 2 DIODE M7
1      GND
2      U164-6 C17-2 X5-2 C75-2

X6 8 1N4148 2 DIODE A6
1      UPRST*
      C20-1 U113-6 U113-2 R44-2 X4-2 X6-1
2      X6-2 U179-11

X7 1 LED 2 LED M4
1      +5V
2      X7-2 R81-1

Y1 9 14MHZ 2 XTAL1 A12
1      R52-1 Q10-3 Y1-1
2
      Y1-2 Q11-2 R49-2

Y2 4 32KHZ 2 XTAL2 A3
1      Y2-1 U72-10 C3-3
2      C4-1 U72-11 Y2-2
    
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END OF DATA