

PCB Assembly, 68020/68030 CPU Card (364832 Rev C)

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310026-45	Resistor, Chip, 1/8W, 5%, 1 OHM (1206)	R103-R105 R204 R205
311026-01	Resistor, Chip, 1/8W, 5%, 47 OHM (1206)	R109 R112 R113
310026-05	Resistor, Chip, 1/8W, 5%, 100 OHM (1206)	R101 R102
310026-08	Resistor, Chip, 1/8W, 5%, 4.7K OHM (1206)	R100 R106 R107 R108 R110 R111
391321-04	Socket, SM PLCC for 68881/68882	U101; (Use Item 40 for AUTO-PLACE Assembly)
391413-03	IC, 68020 CPU, 132 QFP, 25MHz	U200
390399-04	IC, 68030 CPU, 132 QFP, 25 MHz	U202
390434-01	IC, MC68882 FPU 25 MHz PLCC	U101
391485-01	IC, PAL, 22V10-10 Programmed PLCC, ROM Remap	U100; Programmed into PN 391392-03
390868-01	IC, SMD, 74F174, SOIC	U102
391323-01	IC, SMD, 74F38, SOIC	U105
391321-08	Socket, SM, PLCC, W/O Mounting Posts	Sub for PN 391321-04 (for AUTO-PLACE Assembly)
	Not Stuffed	U103
903326-03	3 x .1" SIL	J103 J201-J203
903326-03	3 x .1" SIL	J100 J101
390556-01	Connector, 200 Pin KEL	CN10
390043-01	Shorting Bars (Shunts)	J100 J101
390043-01	Shorting Bars (Shunts)	J103 J201-J203

PCB Assembly, A4000 (364837 Rev E)

364837-01	PCB Assembly, A4000 NTSC	
364837-02	PCB Assembly, A4000 PAL	
364836-01	Schematic	
364838-01	PCB Fab	
364839-01	Artwork	
	CAPACITORS	
390818-01	Capacitor, SM, MLC, NPO, 22pF (1206)	C485 C179
390818-04	Capacitor, SM, MLC, NPO, 47pF (1206)	EC976-EC989 EC350-EC364
390818-05	Capacitor, SM, MLC, NPO, 56pF (1206)	C178
390818-06	Capacitor, SM, MLC, NPO, 100pF (1206)	EC182-EC184 EC300-EC309 EC365-EC379 EC410 EC411 EC451-EC464
390818-10	Capacitor, SM, MLC, NPO, 330pF (1206)	C446, C447
390853-08	Capacitor, SM, MLC, X7R, 3900pF (1206)	C432 C442
390853-09	Capacitor, SM, MLC, X7R, 6800pF (1206)	C431 C441
390853-01	Capacitor, SM, MLC, X7R, .01uF (1206)	C104 C154B C186 C193 C195 C409 C460D C460E C460F
390853-04	Capacitor, SM, MLC, X7R, .047uF (1206)	C411-C414 C430 C440
310027-02	Capacitor, SM, Ceramic, 0.1uF (1206)	C102 C103 C106 C130 C131 C140 C141 C145 C152 C154A C177 C201 C205 C211A C211B C211C C212 C213 C215 C216 C250A C250C C300 C305 C311 C350-C355 C400B C402A C402B C455-C459 C460A C460B C460C C500 C860 C890-C894 C901-C904 C907 C975 C976 C990 C511-C513 C455B C456B C457B C458B

PCB Assembly, A4000 (364837 Rev E)

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390797-02	Capacitor, SM, Ceramic, Z5U, .22uF (1210)	C150 C175 C176 C199 C403 C405 C406 C450 C700-C704 C706-C708 C710 C711 C714
391097-06	Capacitor, SM, Elec. Alum. 4.7uF 25V 'A'	C200 C404
391097-07	Capacitor, SM, Elec. Alum. 10uF 25V 'C'	C460G
391097-03	Capacitor, SM, Elec. Alum. 22uF 16V 'C'	C198 C317 C318 C433 C443
391097-04	Capacitor, SM, Elec. Alum. 47uF 16V 'D'	C187-C192 C194 C196 C407 C408
391097-01	Capacitor, SM, Elec. Alum. 100uF 6.3V 'D'	C181
390101-03	Capacitor, Elec. Alum. Radial 470uF 16V	C185 C400A
251029-06	Capacitor, Trimmer, Ceramic, 6.8-45pF	VC190
TRANSISTORS, DIODES, FERRITES		
391121-01	IC, SMD, NPN, Transistor, 2N3904 (SOT23)	Q300 Q901
391122-01	IC, SMD, PNP, Transistor, 2N3906 (SOT23)	Q400
391145-01	Transistor, SM, N-Channel JFET MMBF102L	Q430 Q440
391327-01	Diode, SM, 1N4001 (MELF)	D175 D176 D305-D307 D360-D363, D500-D505
391129-01	Diode, SMT, 1N4148 (SOT23)	D177 D178 D300
391559-01	Filter, Ferrite, SMT (1812)	FB177 FB308 FB309 FB364-FB366 FB401 FB462 FB463 FB464 FB476 FB478-FB480 FB975
391092-03	Filter, Ferrite, SMT (1206)	FB710 FB410 FB411 ER976-ER989
391138-05	Inductor, SM, 47uH (1210)	L500
RESISTORS		
391093-01	Resistor, SM, 1W, 5%, 1 Ohm (2512)	R400
391093-07	Resistor, SM, 1W, 5%, 20 Ohm (2512)	R176 R177
391093-04	Resistor, SM, 1W, 5%, 47 Ohm (2512)	R383
310026-45	Resistor, Chip, 1/8W, 5%, 1 Ohm (1206)	R403 R404
310026-24	Resistor, Chip, 1/8W, 5%, 120 Ohm (1206)	R311
310026-43	Resistor, Chip, 1/8W, 5%, 33 Ohm (1206)	R104 R211 R231-R237 R240-R248 R881-R899
310026-01	Resistor, Chip, 1/8W, 5%, 47 Ohm (1206)	R101-R103 R105 R106 R111 R112 R161 R162 R212-R218 R222 R223 R451 R458-R464 R500-R508 R513 R520-R543 R701-R704 ER175 R458A R458B R660 R661 ER176 ER300- ER307 ER350-ER363 ER367-ER379 ER453 ER458-ER461 ER475 R165- R170
391509-04	Resistor, Chip, 1/10W, 5%, 47 Ohm (0805)	R455A, R455B R455C R455D R455E R455F R455G R455H R456A R456B R456C R456D R456E R456F R456G R455H R457A R457B R457C R457D R457E R457F R457G R457H
310026-29	Resistor Chip, 1/8W, 5%, 75 Ohm (1206)	R510-R512
310026-30	Resistor, Chip, 1/8W, 5%, 220 Ohm (1206)	R301 R307
310026-21	Resistor, Chip, 1/8W, 5%, 470 Ohm (1206)	R120-R122 R175 R178 R651
310026-56	Resistor, Chip, 1/8W, 5%, 680 Ohm (1206)	R65 R66
310026-57	Resistor, Chip, 1/8W, 5%, 750 Ohm (1206)	R430 R440

PCB Assembly, A4000 (364837 Rev E)

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310026-07	Resistor, Chip, 1/8W, 5%, 1.0K Ohm (1206)	R67 R68 R70-R73 R125-R128 R171- R173 R181 R182 R239 R249 R302 R371 R381 R382 R401 R402 R433 R434 R443 R444 R545-R548 R612- R626 R630-R635 R639 R708-R712 R720-R722 R861 R862 R911 R912 R975
310026-54	Resistor, Chip, 1/8W, 5%, 1.2K Ohm (1206)	R79-R88 R179 R405
310026-51	Resistor, Chip, 1/8W, 5%, 2.4K Ohm (1206)	R403D R403H
310026-16	Resistor, Chip, 1/8W, 5%, 2.7K Ohm (1206)	R1-R64 R74-R78 R206 R207 R407 R652 R871 R904 R905
310026-46	Resistor, Chip, 1/8W, 5%, 3.3K Ohm (1206)	R151 R360 R361
310026-08	Resistor, Chip, 1/8W, 5%, 4.7K Ohm (1206)	R515 R403C R403G R981-R994
310026-17	Resistor, Chip, 1/8W, 5%, 10 K Ohm (1206)	R208 R305 R306 R406 R408 R431 R432 R441 R442 R457 R465 R514 R403A R403B R403E R403F R355- R359
310026-55	Resistor, Chip, 1/8W, 5%, 11 K Ohm (1206)	R902 R903
310026-31	Resistor, Chip, 1/8W, 5%, 100K Ohm (1206)	R180
310026-19	Resistor, Chip, 1/8W, 5%, 470K Ohm (1206)	R435 R445
391154-27	Resistor, Chip, 1/8W, 1%, 562 Ohm (1206)	R509
902412-14	Res. Netwk., SIP, 9 Pin, 8 Element, 1K Ohm	RP461-RP463
902410-10	Res. Netwk., SIP, 10 Pin, 9 Element, 1K Ohm	RP351
902442-35	Res. Netwk., SIP, 8 Pin, 7 Element, 10K Ohm	RP176
325566-27	Oscillator, 50 MHz, T.H. Can	U104
325566-14	Oscillator, 28.63636 MHz, T.H. can	U154 (NTSC)
252344-01	Oscillator, 28.37516 MHz, T.H.can	U154 (PAL)
900560-01	Crystal, 32.768 KHz, T.H.	Y176
INTEGRATED CIRCUITS		
391513-02	IC, Kickstart ROM (LOW) 150ns	U176 Set J151 = Pins 2-3 (V39.106)
391514-02	IC, Kickstart ROM (HIGH) 150ns	U175 Set J151 = Pins 2-3 (V39.106)
391010-01	IC, CSG, 8374, ALICE, 84 Pin PLCC	U211
391227-01	IC, CSG, 4203, LISA, 84 Pin PLCC	U450
391077-01	IC, 8364R7 PAULA PLCC 52	U400
391078-02	IC, SM, LSI, Complex Int Adapt 8520A-1 PLCC 44	U300 U350
390525-01	IC, Ricoh, Real Time Clock, RP5C01, DIP	U178
391494-01	IC, Video DAC, Triple 8-BIT, ADV7120, PLCC 44	U460
390540-02	IC, LSI, FAT GARY, F008B, PLCC84	U150
390541-07	IC, FAT RAMSEY, F012G, PLCC 84	U890
391380-01	IC, BRIDGETTE, PQFP 100	U250
390539-09	IC, LSI, FAT BUSTER, FO13I, PLCC84	U700
391473-01	IC, SMD, Op Amp, Dual, LM833	U403
391103-01	IC, SMD, Op Amp, Quad JFET, LF347	U402
390555-01	Delay Line, 5 Tap, 25ns, DIP	U102
391087-01	IC, SMD, Quad Line Driver, 1488 SOIC	U304
391086-01	IC, SMD, Quad Line Receiver, 1489 SOIC	U305
391421-01	Voltage Reference, 1.2V, SO-8	D507

PCB Assembly, A4000 (364837 Rev E)

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901527-03	IC, Voltage Regulator, Fixed Output, TO-220, 7905	U198
391554-01	IC, Linear, LF347, EIAJ Package	Sub for PN 391103-01
391478-01	IC, PAL, 22V10-10 Programmed PLCC, Chip CAS Gen	U212; Programmed into PN 391392-03
391477-01	IC, PAL, 16L8-10 Programmed PLCC, Chip RAM Ctrl	U213; Programmed into PN 391412-01
391476-01	IC, PAL, 16R4-15 Programmed PLCC, Arb & int.	U701; Programmed into PN 391359-04
391475-01	IC, PAL, 16L8-10 Programmed PLCC, Zorro Decode	U714; Programmed into PN 391199-03
391406-01	IC, PAL, 16L8-15 Programmed PLCC, IDE Decode	U901; Programmed into PN 391199-04
391405-01	IC, PAL, 16R6-15 Programmed PLCC, IDE state	U902; Programmed into PN 391403-02
391276-01	7406, SOIC package	U131
391188-01	7407, SOIC package	U311 U141
391499-01	74F521, SOIC package	U145
391088-01	74F04, SOIC package	U215
391183-01	74F08, SOIC package	U130 U710
391175-01	74F32, SOIC package	U140
391320-01	74F74, SOIC package	U106 U459
391325-01	74F86, SOIC package	U711
391375-01	74F245, SOIC package	U704 U707 U708 U891-U894
391481-01	74F841, SOIC package	U216
391374-02	74FCT646T, SOIC package	U702 U703 U706
391480-01	74HCT166, SOIC package	U975-U976
391400-01	74FCT244T, DIP package	U103
391474-01	74FCT245T, SOIC package	U455-U458
391377-01	74HCT174, SOIC package	U177 U354 U907
391326-01	74LS38, SOIC package	U352
391141-01	74LS74A, SOIC package	U351
391311-01	74HC4066, SOIC package	U205
391100-01	74HCT245, SOIC package	U903 U904
391191-01	74LS125A, SOIC package	U353 U355
391548-01	74F86, SM, EIAJ package	Substitute for PN 391325-01
391552-01	74HCT174, SM, EIAJ Package	Substitute for PN 391377-01
391555-01	74LS74A, SM, TTL, EIAJ Package	Substitute for PN 391141-01
SOCKETS		
390768-04	Socket, 20 Pin .3 DIP machine pin	U103 (Clock distribution)
904150-06	Socket, 40 Pin .6 DIP	U175 U176 (ROMs)
391368-01	Socket, 72 Pin 22.5 Deg. SIMM	U261 U850-U853
390719-01	Socket, single pin (.040 hole)	U104 U154
MISC ELECTRICAL		
380393-02	Battery, NICAD, Rechargeable, 3.6V	BT176
380393-03	Battery, NICAD, Rechargeable, 3.6V	BT176
390924-01	Varistor Switch, Self Resetting 1.85A	F175
CONNECTORS		
903345-06	12 DIL .1" x .1" Header	J975
903345-17	34 DIL .1" x .1" Header	CN351

PCB Assembly, A4000 (364837 Rev E)

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903345-20	40 DIL .1" x .1" Header	CN900
903326-02	2 x .1" SIL	J351 J850
903326-03	3 x .1" SIL	CN404 J100 J104 J151 J212-J214 J352 J500-J502 J852 CN200 CN302 CN303
390242-01	DB9 Male	CN975 CN976
390242-03	DB23 Male	CN450
390241-03	DB23 Female	CN352
390625-04	Stacked DB25 Male/Female (missionary)	CN350+CN300
390851-04	6 Pin MINI DIN, Female	CN175
390043-01	Shorting Bars (Shunts)	J100 J104 J120 J151 J152 J212 J214 J352 J850 J852
903349-01	6 Pin Connector (Power In)	CN160
252122-02	RCA Jack (Red)	CN403
252122-01	RCA Jack (White)	CN402
903446-06	100 Pin Edge Card Connector	CN452 CN600
390557-01	200 Pin KEL Connector	CN651
	UNSTUFFED COMPONENTS	
	R465	
	C406H	

PCB Assembly, 68040 CPU Card (364856)

364856-01	PCB Assembly, 68040 CPU Card, 68040	
364856-02	PCB Assembly, 68040 CPU Card, 68EC040	
364853-01	Schematic	
364855-01	PCB Fab	
364854-01	Artwork	
	CAPACITORS	
390853-01	Capacitor, SM, MLC, X7R, .01uF (1206)	C100A
390818-06	Capacitor, SM, MLC, NPO, 100pF (1206)	C400
310027-02	Capacitor, SM, Ceramic, 0.1uF (1206)	C101A C103A C104A C105A C200A C201A C202A C203A C204 C205 C206A C207 C208A C209 C211 C213 C400A C401A C402A
390797-01	Capacitor, SM, Ceramic, Z5U, .33uF (1210)	C212A C214A C215A C216A C217A C218A C219A C220A C221A C222A C101B
390797-02	Capacitor, SM, Ceramic, Z5U, .22uF (1210)	C102D C102A
390818-02	Capacitor, SM, MLC, NPO, 220pF (1206)	C102C C102F
391097-03	Capacitor, SM, Elec. Alum., 22uF 16V 'C'	C105 C106 C107 C102E C102B
	RESISTORS	
310026-43	Resistor, Chip, 1/8W, 5%, 33 Ohm (1206)	R107, R108
310026-05	Resistor, Chip, 1/8W, 5%, 100 Ohm (1206)	R400 R401
310026-21	Resistor, Chip, 1/8W, 5%, 470 Ohm (1206)	R402 R403 R404
310026-08	Resistor, Chip, 1/8W, 5%, 4.7K Ohm (1206)	R104 R105 R106 R405
310026-06	Resistor, Chip, 1/8W, 5%, 22 Ohm (1206)	R101 R102
310026-45	Resistor, Chip, 1/8W, 5%, 1 Ohm (1206)	R100 R103
902410-10	Res. Ntwk,SIP, 10 Pin, 9 Element, 1K Ohm	RP100 RP400 RP401 RP402 RP403 RP404 RP405