

TABLE 5.1 Z88 PARTS LIST

CIRCUIT REFERENCE	DEVICE
<u>Integrated Circuits</u>	
IC01 IC02 IC03	Z80 CMOS 4 MHz NEC 42832 32k x 8 Pseudo stat RAM 150 mS ROM Compatible: NEC Z7C1000D-20 TOSHIBA TC571001D-20 HITACHI HN27C301G-20 JEDEC: NEC Z7C1001D-20 TOSHIBA TC571000D-20 HITACHI HN27C101G-20
IC04	GATE/ARRAY
<u>Transistors</u>	
T01 T02 T03 T04 T05 T06 T07 T08 T09 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20	ZTX214/BC559 ZTX214/BC559 ZTX214/BC559 ZTX214/BC559 ZTX650/MPS650 ZTX214/BC559 ZTX214/BC560(>30V) ZTX109/BC550(>30V) ZTX109/BC549 ZTX109/BC549 ZTX214/BC559 ZTX214/BC559 ZTX214/BC559 ZTX214/BC559 ZTX214/BC559 ZTX109/BC549 { Author's Note ZTX750/BC328 +++++ { ZTX109/BC549 { Is this approved?? ZTX109/BC549 ZTX214/BC559

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CIRCUIT REFERENCE	DEVICE
T21	ZTX109/BC549
T22	ZTX109/BC549
T23	ZTX214/BC559
T24	ZTX214/BC559
T25	ZTX109/BC549
<u>Diodes</u>	
D01	DIODE 1N4148
D02	DIODE 1N4148
D03	DIODE 1N4148
D04	DIODE 1N4148
D05	DIODE 1N4148
D06	DIODE BZX79C11
D07	DIODE 1N4148
D08	DIODE BZX79C16
D09	DIODE BZX795V1
D10	DIODE BZX795V1
D11	DIODE BZX795V1
D12	DIODE 1N4148
D13	DIODE 1N4148
D14	DIODE 1N4148
D15	DIODE 1N4148
D16	DIODE 1N4148
D17	DIODE 1N4148
D18	DIODE 1N4148
D19	DIODE 1N4148
D20	DIODE 1N4148
D21	DIODE 1N4148
D22	DIODE BZX79C7V5
D23	DIODE 1N4001
D24	DIODE 1N4001
D25	DIODE 1N4148
D26	DIODE 1N4148
D27	DIODE 1N4148
D28	DIODE 1N4148
D29	DIODE 1N4148
D30	DIODE 1N4148
Z01	REF50Z
<u>Connectors</u>	
SK01	POWER CON, as Spectrum
SK02	CON 1 mm pitch custom
SK03	CON 1 mm pitch custom
SK04	CON 1 mm pitch custom
SK05	DISPLAY CON Flexlock 14-way
SK06	KEYBD CON Flexlock 8-way
SK07	KEYBD CON Flexlock 8-way
SK8	DTYPE

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CIRCUIT REFERENCE	DEVICE
<u>Capacitors</u>	
C01	CAP 4.7 μ F 35V \pm 20% Radial
C02	CAP 22 μ F 16V \pm 20% Rad
C03	CAP 47 μ F 6.3V \pm 20% Rad
C04	CAP 47 μ F 6.3V \pm 20% Rad
C05	CAP 47 μ F 6.3V \pm 20% Rad
C06	CAP 22 μ F 16V +80%-30% Rad
C07	CAP 100NF 25-63V +80%-30% Ceramic
C08	CAP 33 μ F 10V \pm 20% Rad
C09	CAP 33 μ F 10V \pm 20% Rad
C10	CAP 1 μ F 50-63V \pm 20% Rad
C12	CAP 100NF 25-63V +80%-30% Cer
C13	CAP 100PF 25-63V +80%-30% Cer
C14	CAP 10NF 25-50V \pm 30% Cer
C15	CAP 100PF 25-63V \pm 10% Cer
C16	CAP 100NF 25-63V +80%-30%
C17	TC5-30PF
C18	TC5-30PF
C19	CAP 1NF 25-50V \pm 10% Cer
C20	CAP 100PF 25-63V \pm 10% Cer
C21	CAP 10NF 25-50V \pm 30% Cer
C22	CAP 47 μ F 5.5V \pm 20% Rad
C23	CAP 10NF 25-50V \pm 30% Cer
C24	CAP 100NF 25-63V +80%-30% Cer
C25	CAP 100NF 25-63V +80%-30% Cer
C26	CAP 100NF 25-63V +80%-30% Cer
C27	CAP 100NF 25-63V +80%-30% Cer
C28	CAP 47PF 25-50V \pm 10% Cer
C29	CAP 47PF 25-50V \pm 10% Cer
C30	CAP 100NF 25-63V +80%-30% Cer
C31	CAP 1NF 25-50V \pm 10% Cer
C32	CAP 330PF 25-50V \pm 20% Cer
<u>Resistors</u>	
RP01	100K }
RP06	100K }
R01	RES 6K8 }
R02	RES 100K }
R03	RES 1M }
R04	RES 1M } All resistors 5% 0.125W-0.25W
R05	RES 33R }
R06	RES 1M }
R07	RES 10K }
R08	RES 22R }
R09	RES 2R2 }
R10	RES 470K }

TABLE 5.1 Z88 PARTS LIST

CIRCUIT REFERENCE	DEVICE
R11	RES 470K }
R12	RES 47K }
R13	RES 47K }
R14	RES 1K }
R15	RES 100K }
R16	RES 10M }
R17	RES 1M }
R18	RES 47K }
R19	RES 2M2 }
R20	RES 1M }
R21	RES 2M }
R22	RES 4K7 }
R23	RES 100K }
R24	RES 10K }
R25	RES 4K7 }
R26	RES 100K }
R27	RES 10K }
R28	RES 4K7 }
R29	RES 100K } All resistors 5% 0.125W-0.25W
R30	RES 10K }
R31	RES 100K }
R32	RES 47K }
R33	RES 220K }
R34	RES 47K }
R35	RES 1K }
R36	RES 47K }
R37	RES 1K }
R38	RES 47K }
R39	RES 2K2 }
R40	RES 2K2 }
R41	RES 150R }
R42	RES 100K }
R43	RES 100K }
R44	RES 1K5 }
R45	RES 470K }
R46	RES 10M }
R47	RES 10K }
R48	RES 220R }
R49	RES 1M }
R50	RES 470R }
R51	RES 4K7 }
R52	DELETED }
R53	RES 1K8 }
R54	RES 10K }
R55	DELETED }
R56	RES 470R }
R57	RES 47K }
R58	RES 47K }
R59	RES 47K }
R60	RES 47K }

TABLE 5.1 Z88 PARTS LIST

CIRCUIT REFERENCE	DEVICE
R61	RES 47K }
R62	RES 47K }
R63	RES 47K }
R64	RES 47K }
R65	RES 2K2 }
R66	RES 2K2 }
R67	RES 2K2 }
R68	RES 2K2 }
R69	RES 2K2 }
R70	RES 2K2 }
R71	RES 2K2 }
R72	RES 2K2 } All resistors 5% 0.125W-0.25W
R73	RES 220R }
R74	RES 100K }
R75	DELETED }
R76	RES 10M }
R77	RES 470R }
R78	RES 10M }
R79	RES 4K7 }
R80	RES 2M2 }
R81	RES 1M5 }
R82	RES 10M }
<u>Miscellaneous</u>	
L01	22 μ H
TR01	TRANSFORMER
XT01	XTAL 9.3040 MHz
XT02	XTAL 25.6 KHz
VR01	10K
SW01	SWITCH
SW02	SWITCH
TP01	BAT/TERMINAL ASS 1 Spring tag wire
TP02	BAT/TERMINAL ASS 2 Spring tag wire
TP03	0V/STRAP
TP04	0V/STRAP
TP05	0V/STRAP
TP06	0V/STRAP
TP07	0V/STRAP
TP08	0V/STRAP
TP09	0V/STRAP
TP10	0V/STRAP
TP11	0V/STRAP
TP12	0V/STRAP
BZ1	SPEAKER 120R
BS2	BRASS STRIP
PI1	PLASTIC INSULATOR
RV2	10K VARIABLE RESISTOR and CONTROL KNOB

TABLE 5.1 Z88 PARTS LIST

CIRCUIT REFERENCE	DEVICE
	Membrane Mat Case, lower Display bezzel Battery cover Extension bus cover Leg Reaction plate Front window polycarb Screw No.4 3/8 plastite Washer foam Foot rubber (square) Foot rubber (rectangle) IC socket 32-pin

AWAITING MASTER ARTWORK FROM CAMBRIDGE COMPUTERS

FIGURE 5.1 PRINTED CIRCUIT BOARD (ISSUE 3) COMPONENT LAYOUT

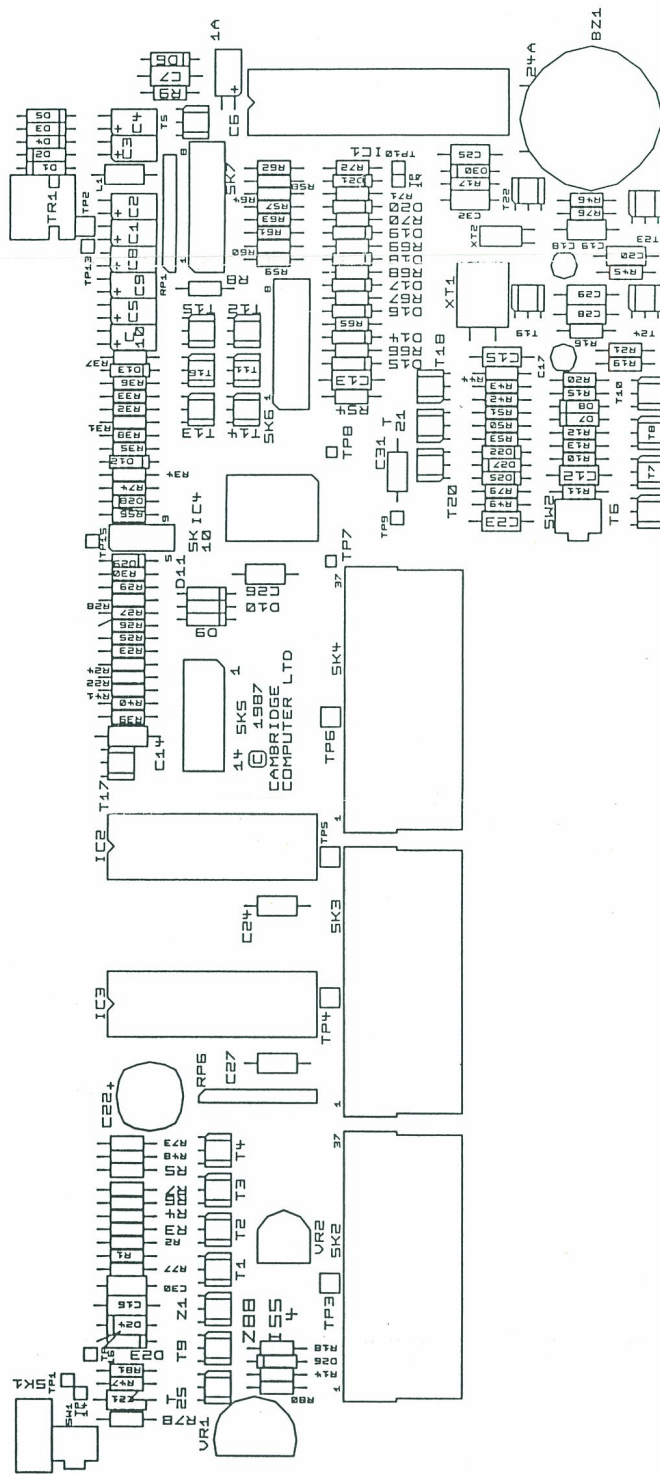


FIGURE 5.2 PRINTED CIRCUIT BOARD
(ISSUE 4) COMPONENT LAYOUT