

Datasheets

1B1165 CPU		
Component Location	Description	Data Sheet
IC4	6414 1K x 4 RAM (subst. 6514 ok)	6514.pdf
IC5	2114 1K x 4 RAM	2114.pdf
IC6	4042BP CMOS Quad D latch	4042.pdf
IC7	TDA 3081 Seven transistor array	3081.pdf
IC8	74HC00 or 74LS00 TTL Quad 2-in NAND gate	74hc00.pdf 74LS00.pdf
IC9	Signetics 2650 microprocessor	2650um.pdf
IC10	4042BP CMOS Quad D latch	4042.pdf
IC11	4042BP CMOS Quad D latch	4042.pdf
IC12	TDA 3081 Seven transistor array	3081.pdf
IC13	74LS14 Hex Schmitt trigger	74ls14.pdf
IC14	74LS393 TTL Dual 4-bit binary counter	74ls393.pdf
IC15	4040BP 12-stage binary counter	4040.pdf
IC16	74LS157 TTL Quad 2-in multiplexor	74ls157.pdf
IC17	74LS156 TTL Dual 1-of-4 decoder	74LS156.pdf
IC18	40097BP CMOS 3 state non-inverting buffer	40097.pdf
IC19	4001 CMOS Quad NOR gate	4001.pdf
IC20	74LS161 TTL Sync. binary counter	74ls161.pdf
IC21	4040BP 12-stage binary counter	4040.pdf

IC22	74LS157 TTL Quad 2-in multiplexor	74ls157.pdf
IC23	2101 256 x 4 RAM	am2101.gif
IC24	40097BP CMOS 3 state non-inverting buffer	40097.pdf
IC25	40097BP CMOS 3 state non-inverting buffer	40097.pdf
IC26	TDA 3081 Seven transistor array	3081.pdf
IC27	4028BP CMOS 1-of-10 decoder	4028.pdf
IC28	4002BP Dual 4-in NOR gate	4002.pdf
IC29	4069BP CMOS Hex inverter	4069.pdf
IC30	4069BP CMOS Hex inverter	4069.pdf
IC31	4012BP CMOS Dual 4-in NAND gate	4012.pdf
IC32	4556 CMOS Dual 1-of-4 decoder	4556.pdf
IC33	4042BP CMOS Quad D latch	4042.pdf
IC34	TDA 3081 Seven transistor array	3081.pdf
IC35	4028BP CMOS 1-of-10 decoder	4028.pdf
IC36	4028BP CMOS 1-of-10 decoder	4028.pdf
IC37	4011BP CMOS Quad 2-in NAND gate	4011.pdf
IC38	TDA 3081 Seven transistor array	3081.pdf
IC39	TDA 3081 Seven transistor array	3081.pdf
IC40	TDA 3081 Seven transistor array	3081.pdf
IC41	4028BP CMOS 1-of-10 decoder	4028.pdf
TR1	BC548 NPN transistor	bc548.pdf
TR2	BC548 NPN transistor	bc548.pdf
TR3	BC548 NPN transistor	bc548.pdf
TR4	BC337 NPN 50V 0.8A transistor	bc337.pdf

CN8	3M 20-pin right angle header	30320-5002HB.pdf
CN9	Molex KK series .156" 4-pin header	0026481045_PCB_HEADERS.pdf
CN10	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
CN11	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
CN12	3M 20-pin right angle header	30320-5002HB.pdf
CN14	3M 20-pin right angle header	30320-5002HB.pdf
1B1166 Driver		
Component Location	Description	Data Sheet
IC1...IC13	4724BC 8-bit Abb. latch	4724.pdf
IC14...IC16	4050BP CMOS Hex buffer	4050.pdf
IC17...IC20	7407 TTL Hex buffer	7407.pdf
SCR1...SCR63	2n5060 PNP SCR (0.8A 30V) (subst. NTE5400 ok)	nte5400.pdf
SCR64	BF422 NPN SCR (subst. NTE287 ok but pinout different)	nte287.pdf
SCR65...SCR80	C 106 Y1 PNP SCR (4A 200V) (subst. BAX62, NTE5455, or 2N6238 ok)	nte5455.pdf
Q1...Q24	BD649 Darlington Transistors (10A 100V) (subst. TIP102 ok)	tip102.pdf
CN15	3M 20-pin right angle header	30320-5002HB.pdf
CN16	Molex KK series .156" 4-pin header	0026481045_PCB_HEADERS.pdf
CN17	Molex KK series .156" 12-pin header	0026481125_PCB_HEADERS.pdf
CN18	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
CN19	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
CN20	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
CN21	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf

CN22	Lumberg 2.5mm (.100") MSFQ/0 20-pin header	Lumberg_2_5MSF_O_Connectors.pdf
1B1167 Power Supply		
Component Location	Description	Data Sheet
IC1	Quad Voltage Comparator	lm339.pdf
SCR1	SCR	2n6564.pdf Or can use NTE5405 or NTE5406
P2	50V 10A Bridge Rectifier	BR1005.pdf
P3 and P5	400V 25A Bridge Rectifier	mp254.pdf
TR1	2N3584 Power Transistor	Cross to nte384.pdf
TR2	2N3440 Transistor	Cross to nte396.pdf
TR3	2N3440 Transistor	Cross to nte396.pdf
TR4	BC337 50V 0.8A NPN transistor	bc337.pdf
TR5	BC337 50V 0.8A NPN transistor	bc337.pdf
TR6	BC323 100V 5A Transistor	BC323.pdf
RG1	78HO5 Voltage Regulator	Cross to nte932.pdf
RG2	79MO5 Voltage Regulator	Cross to nte961.pdf
CN1	Molex KK series .156" 12-pin header	0026481125_PCB_HEADERS.pdf
CN2	Molex KK series .156" 5-pin header	0026481055_PCB_HEADERS.pdf
CN3	Molex KK series .156" 5-pin header	0026481055_PCB_HEADERS.pdf
CN4	Molex KK series .156" 4-pin header	0026481045_PCB_HEADERS.pdf
CN5	Molex KK series .156" 12-pin header	0026481125_PCB_HEADERS.pdf
1B1170 Sound		
Component Location	Description	Data Sheet
IC1A	Motorolla 6802 Processor	6802_and_6808.pdf
IC1I	TMS5200 Speech Synthesizer Same pinout as TMS5220.	TMS5200.pdf
IC2A	74LS244 Octal 3-State Buffer	74ls244.pdf
IC2B	74LS374 Octal 3-State Flip-Flop	74LS374.pdf

IC2C	1408 Digital/Analog Converter	mc1408.pdf
IC2D	74LS14 Hex Schmitt trigger	74ls14.pdf
IC2E	74LS156 TTL Dual 1-of-4 decoder	74LS156.pdf
IC2F	AY-3-8910 Sound Generator	AY-3-8910.pdf
IC2F	AY-3-8910 Sound Generator	AY-3-8910_2.pdf
IC2G	6821 Peripheral Interface Adapter	6821.pdf
IC2H	6821 Peripheral Interface Adapter	6821.pdf
IC4C	TDA1510 Amplifier	TDA1510.pdf
CN6	Molex KK series .156" 9-pin header	0026481095_PCB_HEADERS.pdf
CN10	3M 20-pin right angle header	30320-5002HB.pdf
1B11136 Sound		
Component Location	Description	Data Sheet
IC1A	74LS04 Hex Inverter	7404.pdf
IC1C	Motorolla 6802 Processor	6802_and_6808.pdf
IC1L	AY-3-8910 Sound Generator	AY-3-8910.pdf
IC1L	AY-3-8910 Sound Generator	AY-3-8910_2.pdf
IC1M	6821 Peripheral Interface Adapter	6821.pdf
IC1O	TMS5220 Speech Synthesizer	TMS5220.pdf
IC2A	74LS244 Octal 3-State Buffer	74ls244.pdf
IC2B	74LS374 Octal 3-State Flip-Flop	74LS374.pdf
IC2C	1408 Digital/Analog Converter	mc1408.pdf
IC2D	74LS14 Hex Schmitt trigger	74ls14.pdf
IC2E	40161 4-Bit Decade Counter with Asynchronous Clear	40161.pdf

IC2F	74LS139 Decoder/Demultiplexer	74LS139.pdf
IC2G	14H4 PAL Replace with 16v8 GAL	16v8.pdf
IC2H	74LS161 TTL Sync. binary counter	74ls161.pdf
IC2I	74LS161 TTL Sync. binary counter	74ls161.pdf
IC2L	74LS161 TTL Sync. binary counter	74ls161.pdf
IC2M	74LS74 Dual Pos.-Edge- Triggered D Flip-Flop	74ls74.pdf
IC2N	74LS74 Dual Pos.-Edge- Triggered D Flip-Flop	74ls74.pdf
IC2O	Dual universal switched capacitor filter (sound filter)	mf10.pdf
IC2P	Dual universal switched capacitor filter (sound filter)	mf10.pdf
IC3G	74LS14 Hex Schmitt trigger	74ls14.pdf
IC4F	4053 Analog Multiplexer/Demultiplexer	4053.pdf
IC5F	LM3900 Quad OpAmp	lm3900.pdf
IC7C	TDA1510 Amplifier	TDA1510.pdf
IC7H	74LS14 Hex Schmitt trigger	74ls14.pdf
CN6	Molex KK series .156" 9-pin header	0026481095_PCB_HEADERS.pdf
CN10	3M 20-pin right angle header	30320-5002HB.pdf
1B11178 Sound		
Component Location	Description	Data Sheet
IC1B	Motorolla 6802 Processor	6802_and_6808.pdf
IC1H	6821 Peripheral Interface Adapter	6821.pdf
IC1I	TMS5220 Speech Synthesizer	TMS5220.pdf
IC2A	74LS244 Octal 3-State Buffer	74ls244.pdf
IC2B	74LS374 Octal 3-State Flip-Flop	74LS374.pdf

IC2C	1232 Digital/Analog Converter	DAC1232.pdf
IC2D	74LS139 Decoder/Demultiplexer	74LS139.pdf
IC2E	74LS138 Decoder/Demultiplexer	74LS138.pdf
IC2F	74LS08 Quad 2-Input AND Gates	74LS08.pdf
IC2G	74LS04 Hex Inverter	74LS04.pdf
IC2H	74LS21 Dual 4-Input AND Gates	74LS21.pdf
IC2I	74LS32 Quad 2-Input OR Gates	74LS32.pdf
IC2L	4040BP 12-stage binary counter	4040.pdf
IC3D	TL081 JFET Input Wide Bandwidth Op Amp	TL081.pdf
IC3E	TL081 JFET Input Wide Bandwidth Op Amp	TL081.pdf
IC3D/E	TL082 Dual JFET Input Wide Bandwidth Op Amp	TL082.pdf
IC3F	4053 Analog Multiplexer/Demultiplexer	4053.pdf
IC3G	TL084 Quad JFET Input Wide Bandwidth Op Amp	TL084.pdf
IC3H	74S259 8-bit Addressible Latch	74LS259.pdf
IC3I	74S259 8-bit Addressible Latch	74LS259.pdf
IC3L	4051 Analog Multiplexer/Demultiplexer	4051.pdf
IC4C	TL084 Quad JFET Input Wide Bandwidth Op Amp	TL084.pdf
IC4D	CEM3372 Signal Processor	CEM3372.pdf
IC4F	4016 CMOS Quad Bilateral Switch	4016.pdf
IC4G	TL082 Dual JFET Input Wide Bandwidth Op Amp	TL082.pdf
IC4I	CEM3374 Dual Voltage Controlled Oscillator	CEM3374.pdf
IC5C	TDA1510 Amplifier	TDA1510.pdf
CN6	Molex KK series .156" 9-pin header	0026481095_PCB_HEADERS.pdf

CN10	3M 20-pin right angle header	30320-5002HB.pdf
1B11181/0 Sound		
Component Location	Description	Data Sheet
IC1	2621N / 8005 Universal Sync Generator	2621.tiff
IC2	74LS04 Hex Inverter	7404.pdf
IC3	Z80 CPU	Z80-CPU.pdf
IC7	2114 1K x 4 RAM	2114.pdf
IC8	2114 1K x 4 RAM	2114.pdf
IC9	74LS245 3-State Octal Bus Transceiver	74LS245.pdf
IC10	74LS74 Dual Pos.-Edge-Triggered D Flip-Flop	74ls74.pdf
IC11	74LS30 8-Input NAND Gate	74LS30.pdf
IC12	74LS04 Hex Inverter	7404.pdf
IC13	74LS00 TTL Quad 2-in NAND gate	74hc00.pdf 74LS00.pdf
IC14	74LS139 Decoder/Demultiplexer	74LS139.pdf
IC15	74LS08 Quad 2-Input AND Gates	74LS08.pdf
IC16	TL082 Dual JFET Input Wide Bandwidth Op Amp	TL082.pdf
IC17	TL082 Dual JFET Input Wide Bandwidth Op Amp	TL082.pdf
IC18	74LS374 Octal 3-State Flip-Flop	74LS374.pdf
CN6	Molex KK series .156" 9-pin header	0026481095_PCB_HEADERS.pdf
CN10	3M 20-pin right angle header	30320-5002HB.pdf
1B11181/1 Sound		
Component Location	Description	Data Sheet
IC1	2621N / 8005 Universal Sync Generator	2621.tiff
IC2	74LS04 Hex Inverter	7404.pdf
IC3	Z80 CPU	Z80-CPU.pdf
IC7	2114 1K x 4 RAM	2114.pdf
IC8	2114 1K x 4 RAM	2114.pdf

IC9	74LS373 3-State Octal D-Type Transparent Latch	74LS373.pdf
IC10	1408 Digital/Analog Converter	mc1408.pdf
IC11	74LS245 3-State Octal Bus Transceiver	74LS245.pdf
IC13	74LS30 8-Input NAND Gate	74LS30.pdf
IC14	74LS04 Hex Inverter	7404.pdf
IC15	74LS00 TTL Quad 2-in NAND gate	74LS00.pdf
IC16	74LS139 Decoder/Demultiplexer	74LS139.pdf
IC17	74LS08 Quad 2-Input AND Gates	74LS08.pdf
IC18	TL084 Quad JFET Input Wide Bandwidth Op Amp	TL084.pdf
IC19	TL084 Quad JFET Input Wide Bandwidth Op Amp	TL084.pdf
IC20	4052 Analog Multiplexer/Demultiplexer	4052.pdf
IC21	74LS02 Quad 2-Input NOR Gate	74LS02.pdf
TR1	BC239 NPN Transistor	BC239.pdf
CN6	Molex KK series .156" 9-pin header	0026481095_PCB_HEADERS.pdf
CN10	3M 20-pin right angle header	30320-5002HB.pdf
1B1168 Displays - 8-Digit with 4x2-Digit Glasses		
Component Location	Description	Data Sheet
IC1	4028BP CMOS 1-of-10 decoder	4028.pdf
IC2	4042BP CMOS Quad D latch	4042.pdf
IC3	4511 BCD-to-7 Segment Latch / Decoder / Driver	4511.pdf
TR1...TR23	BF422 NPN SCR (subst. NTE287 ok but pinout different)	nte287.pdf
CN4	3M 20-pin right angle header	30320-5002HB.pdf
1B13123 Displays - 7-Digit		

Component Location	Description	Data Sheet
IC1	4028BP CMOS 1-of-10 decoder	4028.pdf
IC2	4042BP CMOS Quad D latch	4042.pdf
IC3	4511 BCD-to-7 Segment Latch / Decoder / Driver	4511.pdf
TR1...TR7	BF423 PNP	bf423.pdf
TR8...TR21	BF422 NPN (subst. NTE287 ok but pinout different)	bf422.pdf
Display Glass	7-Digit Display Glass (Babcock DI07700 or equivalent)	Babcock-DI07700.pdf
CN4	3M 20-pin right angle header	30320-5002HB.pdf
1B11150 Displays - 8-Digit with 1x8-Digit Glass		
Component Location	Description	Data Sheet
IC1	4724BC 8-bit Abb. latch	4724.pdf
IC2	UDN6510 (<i>NLA - Replace with DI510B</i>)	udn6510.pdf
IC2	Dionics DI510B Level Shifted Gas Discharge Display Digit Driver	DI510B.pdf
IC3	4511 BCD-to-7 Segment Latch / Decoder / Driver	4511.pdf
IC4	ULN2823A High Voltage, High Current Darlington Array	ULN2823A.pdf
TR1	BC548 NPN transistor	bc548.pdf
TR2	BC548 NPN transistor	bc548.pdf
CN4	3M 20-pin right angle header	30320-5002HB.pdf
Connectors and Misc.		
Component Location	Description	Data Sheet
ICn	Description	molex-7674.pdf
EPROMs		
Component Location	Description	Data Sheet
CPU	2764	27c64.pdf

CPU	2732	m2732a.pdf
Sound	2532	tms2532.pdf
Sound	27128	27c128.pdf
Sound	27256	27c256.pdf

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