

Component	Description	Part Number	Component	Description	Part Number
REF SCHEMATIC	BOARD, VIDEO CONTROLLER PROCESSOR, REV A	757 039 11	L1	CORE, FERRITE BD 1206, SMT	180 045 90
REF RAW	BOARD, VIDEO CONTROLLER PROCESSOR, REV A1	757 039 31	L2	COIL, 100UH, 3.5A, 130V/US	180 035 90
REF DRAWING	BOARD, VIDEO CONTROLLER PROCESSOR, REV A	757 039 52	Q1,2,4,5,7,8	XTR, NPN, MMBT3904, SOT23	481 092 90
REF SUB ASSEMBLY/LIST	BOARD, VIDEO CONTROLLER PROCESSOR, REV C	757 039 42	Q3	IC, VOLTAGE REF, LM334	323 018 90
			Q6	XTR, FET, N-CHANNEL, IRLML2402	481 104 91
REF U9	SOCKET, IC, PLCC, 84 CIRCUIT, SMT	127 109 90	RP1,6,10,15,19,23	RESISTOR, NTRWK, 10K-4, ISOLATED	478 124 91
REF U13-15,30,36,37,38,53	SOCKET, IC, .600 DIP, 32-PIN, PHBZ	127 119 90	RP2	RESISTOR, NTRWK, 1K-8, COMMONED	478 121 91
REF U16	SOCKET, IC, 84 PIN, PLCC	127 086 90	RP3	RESISTOR, NTRWK, 10K-4, 5P, SIP	478 136 91
REF U17	SOCKET, IC, .300 DIP, 8-PIN, PHBZ	127 111 90	RP4,5,7-9,11,13	RESISTOR, NTRWK, 10K-9, 10P, SIP	478 135 91
REF U39	SOCKET, IC, .600 DIP, 40-PIN, PHBZ	127 120 90	RP12	RESISTOR, NTRWK, 10K-8, COMMONED	478 119 91
REF U73	SOCKET, IC, .600 DIP, 28-PIN, PHBZ	127 118 90	RP14	RESISTOR, NTRWK, 470K-4, ISOLATED	478 126 91
REF U79,84	COMPOUND, HEAT SINK	161 001 90	RP16	RESISTOR, NTRWK, 4.7K-8, COMMONED	478 127 91
REF U79,84	HEATSINK, -10C/W, T0220, 6380 B-2	267 043 90	RP17	RESISTOR, NTRWK, 22-4, ISOLATED	478 120 91
REF U79,84	CLIP, SECONDARY, HEATSNK, CLP-201	446 057 90	RP18,24	RESISTOR, NTRWK, 100K-2, ISOLATED	478 122 91
REF U84	HEATSINK, 18C/W, T0-220, IMPROVED	267 031 90	RP20,22	RESISTOR, NTRWK, 10K-2, ISOLATED	478 125 91
REF X1	SOCKET, IC, .300 DIP, 16-PIN, PHBZ	127 113 90	RP21,25	RESISTOR, NTRWK, 100K-4, ISOLATED	478 123 91
BT1	BATT, LI, 3V, 255MAH, COIN, H-PCB	404 020 90			
BT2	BATT, NI-MH, 3.6V, SLEEVED	404 022 90			
CR1	DIODE, SCHOTT, 30V, 1A, 1N5818	480 059 91	R1,4,5,8,11,23-25,27,29,32,33,35,37	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
CR2-18	DIODE, 1N914, SOT-23, T/R	480 082 91	R2,3,18,26,28,169,192,219	RESISTOR, 20 OHM, 5%, .100W, 0805, SMT	474 214 91
			R7,17,30,31,34,57,58,60,62,70,75,79	RESISTOR, TFC, 1K, 5%, .100W, 0805	474 227 91
			R12	RESISTOR, 3.3K, 5%, .1W, 0805	474 173 91
C1,3,4,6-9,13-19,21-24,26-50,52-58	CAPACITOR, CER, SMT, .1UF, 50V, 0805, T/R	152 134 91	R15,47,154,176,180	RESISTOR, TFC, ZERO-OHM, JMPR, 0805	474 194 91
C2,20,25,51,64,70	CAPACITOR, DIP, TANT, 22UF, 16V, SMT	154 045 91			
C5,62,81,111	CAPACITOR, TANT, 10UF, 16V, 10%, 6032, T/R	154 039 91	R21	RESISTOR, 51 OHM, 5%, .25W, 1210, SMT	474 216 91
C10,92,102	CAPACITOR, 1000PF, 20%, 50V, 0805, SMT	152 152 91	R36,52	RESISTOR, 100K, 1%, .100W, 0805, SMT	474 187 91
C11,12,118,122	CAPACITOR, CER, SMT, .01UF, 50V, 0805, T/R	152 135 91	R38,39,43,121	RESISTOR, 1 MEG, 1%, .100W, 0805, SMT	474 186 91
C59,69	CAPACITOR, 4.7UF, 10%, 16V, TANT, 3528, T/R	154 048 91	R40,41,46,48,49,51,54-56,64,65,67-69	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
C60-61,63,65,68,71,72-80,82,85-87	CAPACITOR, CER, SMT, .1UF, 50V, 0805, T/R	152 134 91	R42,197,199,200,208,212,226	RESISTOR, 220 OHM, 5%, .100W, 0805, SMT	474 172 91
C66,67	CAPACITOR, 15PF, 5%, 50V, COG, 0805	152 164 91	R44,45	RESISTOR, 22MEG, 5%, .125W, 1206, SMT	474 175 91
C83,84,90,94	CAPACITOR, 2.2UF, 10%, 10V, TANT, 3216, T/R	154 049 91			
C88	CAPACITOR, 47PF, 5%, 50V, COG, 0805	152 223 91	R53,117	RESISTOR, TFC, 4.7K OHM, .100W, 5%, 0805	474 160 91
C89	CAPACITOR, 0.001UF, 50V, 10%, X7R, T/R	152 217 90	R59	RESISTOR, 910 OHM, 5%, .100W, 0805, SMT	474 226 91
C91,98-101,103-105,108,109	CAPACITOR, CER, SMT, .1UF, 50V, 0805, T/R	152 134 91	R71,73,74,76-78,80,81,82,84,86-88	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
C93,97	CAPACITOR, ELECTRO, RAD, 100MF, 25V	156 052 90	R72,96,182,205,206	RESISTOR, TFC, 100 OHM, .100W, 5%, 0805	474 190 91
C95,114	CAPACITOR, 1UF, 10%, 50V, X7R, 2225, T/R	152 162 91	R90-95,97-100,102,103,105,106,114-116	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
C96	CAPACITOR, ELECTRO, RAD, 10UF, 35V, T/R	156 017 91			
C112,113,115-117,119-120,123-126	CAPACITOR, CER, SMT, .1UF, 50V, 0805, T/R	152 134 91	R104,108,109,113,118,119,125,127,133	RESISTOR, TFC, 1K, 5%, .100W, 0805	474 227 91
C106	CAPACITOR, 100PF, 5%, 50V, COG 0805, T/R	152 156 91	R107,203,204,210,213	RESISTOR, 470K, 5%, .100W, 0805, SMT, T/R	474 179 91
C107	CAPACITOR, ELECT, RAD, LOESR, 1000UF, 25V	159 027 90	R110	RESISTOR, TFC, 680K, 5%, .100W, 0805	474 229 91
C110	CAPACITOR, 0.22UF, 10%, 25V, X7R, T/R	152 157 91	R111,141	RESISTOR, 330K, 5%, .100W, 0805, SMT	474 174 91
C121	CAPACITOR, ELC, RAD, 1000UF, 25V	156 070 90	R112,143	RESISTOR, TFC, 39 OHM, 5%, .100W, 0805	474 230 91
C127	CAPACITOR, 10PF, 10%, 50V, COG, 0805	152 224 91			
DS1-5	LED, YELLOW, R/A-T1	371 041 90	R120,123,124,128,135,138,144,149	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
DS6	EMITTER, LED, RED, R/A-T1	371 018 90	R122	RESISTOR, 510 OHM, 5%, .100W, 0805	474 233 91
			R126	RESISTOR, 430 OHM, 5%, .100W, 0805	474 231 91
D1,2	DIODE, SCHOTT, 30V, 100MA, SOT 23	480 107 91	R129,130,131,132,196,198	RESISTOR, TFC, 2.2K OHM, .100W, 5%, 0805	474 154 91
D3	SUPPR, VOLTG, 5V/5W, 1N6373, T/R	483 010 91	R134,136,145,152,156,159	RESISTOR, TFC, 1K, 5%, .100W, 0805	474 227 91
D4	DIODE, SCHOTT, 35V, 8A	480 098 90	R137	RESISTOR, 390K, 5%, .100W, 0805, SMT	474 176 91
			R139	RESISTOR, 6.04K, 1%, .100W, SMT, 0805	474 211 91
FO1	FIBER OPTIC RECEIVER, HFBR-2522	375 016 90	R140,142	RESISTOR, 47K, 5%, .100W, 0805, SMT	474 178 91
FO2	FIBER OPTIC XMIT, HFBR-1522	375 015 90	R146	RESISTOR, TFC, 51K, 5%, .100W, 0805	474 236 91
			R147,193,211	RESISTOR, 150 OHM, 5%, .100W, 0805, SMT	474 181 91
J1	CONNECTOR, DIN, 64 PIN, RTA, MALE	215 009 90	R148	RESISTOR, 15 OHM, 1%, .100W, 0805, SMT	474 215 91
J2	CONNECTOR, 1/2 DIN-32 PIN, RTA, MALE	215 037 90	R150,157,158,160,165,173,174	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91
J3	CONNECTOR, SIMM, 72 RA, TIN, C&R, POL	211 041 90	R151,166,167	RESISTOR, 22K OHM, 5%, .100W, 0805, SMT	474 212 91
J4,5	RECEPTACLE, 64 POSITION, 3 ROW	215 047 90	R155	RESISTOR, 200K, 5%, .100W, 0805, SMT	474 182 91
J6,7,8	CONNECTOR, SIMM, 72 PIN, TIN, C&R, POL	211 406 90			
J9	CONNECTOR, HDR, 2PIN, STR, SHROUD, SL	211 049 90	R161,168,170,171,181	RESISTOR, TFC, 1K, 5%, .100W, 0805	474 227 91
J10	CONNECTOR, HDR, 9PIN, STR, SHR	211 403 90	R162	RESISTOR, TFC, 1 OHM, 5%, .5W, 2010, T/R	474 222 91
J11	CONNECTOR, HDR, 10PIN, STR, SHR, SL	211 074 90	R163	RESISTOR, TFC, 15K, 5%, .100W, 0805	474 228 91
			R164	RESISTOR, 150K, 5%, .100W, 0805	474 286 91

Component	Description	Part Number	Component	Description	Part Number
R172,186,190,191,207,215,216	RESISTOR, 0 OHM, JUMPER, 3AMP, SMT, 2512	474 271 91	U50	REGR, 5V, 100MA, 3TR, LM340LAZ-5.0	488 035 90
R175	RESISTOR, 470 OHM, 5%, .100W, 0805, SMT	474 180 91	U52	IC, OCTAL, TRANCVR, 74HC245, SMT	320 527 91
R177-179,183,194,221-225	RESISTOR, TFC, 10K, OHM, .100W, 5%, 0805	474 156 91	U54	IC, OPAMP DUAL, LM358, SMT	320 652 91
R184,201-202,209,214	RESISTOR, TFC, 100K, OHM, .100W, 5%, 0805	474 157 91	U55	IC, SPCL, FM SOUND, YM2413, DIP18	329 007 90
R185	RESISTOR, 750 OHM, 5%, .100W, 0805	474 232 91	U56,64	IC, INV, HEX, SCHMITT, 14106, SOIC	320 487 90
R187,188,189	RESISTOR, 75 OHM, 5%, .100W, 0805, SMT	474 213 91	U59	IC, GATE, OR, QD, 2-IN, 74HC32, SMT	320 609 90
R217	RESISTOR, 2.4K, 5%, .100W, 0805	474 234 91	U61	IC, SILICON, S/N, DS2401Z, SMT	329 041 91
S1	SWITCH, PB, SPDT MOM, PCB, RTA	516 073 90	U62	IC, QUAD, TRI-Z BUF, 74HC125, SOIC	320 425 90
U1,11	VDRAM, CMOS, 256K X 16, 60NS	706 051 90	U63	IC, SUPERVIS VOLTAGE, MAX691, SMT	320 666 91
U2,51	IC, QUAD, D FF, 74HC175, SOIC	320 644 90	U65	IC, BUFFER, HEX, 3-STE, 14503, SOIC	320 492 90
U3	IC, INVERTER, HEX, 74HC04, SMT	320 507 90	U66	IC, GATE, OR, QUAD 2-IN, 4071, SMT	320 515 90
U4	IC, THREE-PLL CLK GEN, CY2291, SMT	329 034 90	U67	IC, DCDR, DUAL, 1OF4, 14556B, SOIC	320 625 90
U5,18	IC, HEX, SCHMT, TRIG, 74HC14D, SOIC	320 428 90	U68	IC, PROG TIMER, 4536B, SMT	321 049 90
U6	IC, DRIVER, DUAL, OR, 75453, SMT	320 511 90	U69	IC, BATT CHGR, ICS1722N	322 004 90
U7,20,26	IC, DCDR, 3-8 LINE, 74HC138, SMT	320 505 90	U70	IC, FF, 4 BIT, TRI-ST, 14076, SMT	320 517 90
U8	CPLD, 9536, PRGMED, 960, VBIT, CONT	328 043 01	U71	IC, LATCH, QUAD, 40175B, SMT	320 512 90
U9	IC, FPGA, XC3142A, 84PLCC	329 005 90	U72	REGR, POS, 100MA, LM317, SOIC	488 054 90
U12	IC, CMOS, V-DET, ICLT665S, SMT	320 621 90	U73	IC, VIDEO DAC, 40MHZ, G176	329 027 90
U13,14,36,37	EPROM, CMOS, 1M X 8, 120NS, 32 DIP	708 050 90	U74	IC, OCTAL BUFF/DRV, 74C240, SMT	320 654 91
U15,38	RAM, STATIC, CMOS, 512K X 8, 70NS	706 057 90	U75	IC, GATE, AND, QUAD, 2-IN, 4081, SMT	320 514 90
U16	MICROCTRL, 32/16BT, 20MHZ, 960SA	327 043 90	U76,77,78,80,81	IC, HEX LEVEL SHIFTER, 4504B, SMT	320 611 91
U19,25,42	IC, QUAD, OR 2IN, 74AC32, SMT	320 612 90	U79	IC, AUDIO PWR AMP, 20W, LM1875	324 011 90
U21	CLOCK, REAL TIME, DS1315, SOIC16	329 035 90	U82	IC, VIDEO DAC, 35MHZ, PLCC	329 047 90
U22,23	IC, OCTAL, TRANCVR, 74HC245, SMT	320 527 91	U83	IC, NOR, QUAD, 2-IN, 14001, SOIC	320 489 90
U24	CPLD, 9536, PRGMED, 960, PXL01	328 043 02	U84	REG, SWITCHER, 5V, 3A, LM2576T-5.0	488 038 90
U27,28,33,43,47,48,57	IC, OCTAL-3, FIF, D, 74HC574, SMT	320 504 90	U86,87	OPTO, CPLR, DUAL, ILD-2	370 033 90
U30,53	OTP, EPROM, 512K X 8, 100NS	708 124 90	X1	HEADER, 16 PIN, 960 VIDEO	909 067 90
U31,45	IC, SC28C94, UART, QUAD, PLCC52	321 030 90	Y1	OSC, 26.6667 MHZ, CMOS	239 010 90
U32,40	IC, LATCH, OCTAL, 74AC573, SMT	320 513 90	Y2	CRYSTAL, 14.7452 MHZ, HC-49, SMT	230 145 90
U34,49,58	IC, 2 IN MUX 3-ST, 74HC257, SMT	320 526 91	Y3	XTAL, 32.768KHZ, 6PF, MICRO-MINI	230 135 90
U35	IC, 74AC174, D-F/F, HEX, RST, SOP16	320 657 91	Y4	XTAL, 3.579545 MHZ, HC-49/U	230 020 90
U39	OTP, EPROM, 256K X 16, 100NS	708 132 90			
U41	IC, DCDR, DUAL 2-4, 74HC139, SMT	320 506 90			
U44	IC, QUAD AND, SMT, 74AC08	320 667 91			
U46	IC, REAL TIME CLOCK, 62423, SMT	329 036 90			

