

SECTION 8

PARTS LISTS

8-1. GENERAL

8-2. This section contains information helpful in ordering replacement parts for this counter. Four tables provide sufficient information for identifying a part and obtaining a replacement, either from EIP or from the manufacturer.

8-3. LIST OF TABLES

a. Table 8-1, REFERENCE DESIGNATORS/ABBREVIATIONS: Lists abbreviations used as schematic reference designators, and in parts list descriptions. Note that some components have two distinct "codes" identifying that part. For example: an integrated circuit is identified on schematics as "U", but in the parts lists as "IC".

b. Table 8-2, LIST OF MANUFACTURERS: Provides a listing of manufacturers names and addresses, and their Federal Supply Code for Manufacturers (FSCM) number. The FSCM number (or an equivalent) is used in the parts lists as the guide to the manufacturer or supplier of the part.

c. Table 8-3, MASTER PARTS LIST: This list has an entry for each separate replaceable part used in the counter. Entries are arranged by EIP Part Number and

contain a part description plus the manufacturer's part and FSCM number. This table is used with Table 8-4 to completely identify a component part.

d. Table 8-4, REPLACEABLE PARTS LIST: This table provides a detailed component parts listing for all PC boards and assemblies where the parts or components are field replaceable. NOTE: Certain assemblies cannot be field repaired, but must be returned to EIP for service. This table is arranged first by Assembly number (A101, A102, etc.), then by the schematic reference designator (if any) associated with the assembly. Parts identical to those listed earlier for that assembly are identified in the column headed "SAME". The EIP Part Numbers refer to those listed in Table 8-3.

8-4. TO ORDER REPLACEMENT PARTS:

a. Send order directly to EIP at the address shown on the title page of this manual.

b. Specify the EIP Part Number, Reference Designator (if any), and a brief description of the part.

c. For parts not listed in the Parts List: Specify the function, location, and description of the part required, and the model and serial number of the counter.

TABLE 8-1.
REFERENCE DESIGNATORS AND ABBREVIATIONS

REFERENCE DESIGNATORS

A	Assembly
B	Battery or Fan
C	Capacitor
CR	Diode
DS	Indicator (display)
F	Fuse
J	Jack or Connector
K	Relay
L	Inductor
P	Plug or PCB contacts
Q	Transistor
R	Resistor
S	Switch
T	Transformer
TP	Test Point
U	Integrated Circuit
W	Wire (cable)
X	Socket or Holder
Q1-8	Q1 through Q8
Q1/2	Q1 and Q2 (matched pair)

ABBREVIATIONS

CAP	Capacitor	ML	Male
CBN	Carbon	MTCH PR	Matched Pair
CER	Ceramic	PC	Printed Circuit
CMT	Cermet	PCB	PC Board Assembly
CNTR	Counter	PF	Picofarad
CONV	Converter	PREG	Precision
COMP	Composition	RSTR	Resistor
CONN	Connector	RT AN	Right Angle
DI	Diode	S.A.T.	Value or type selected during factory test. Part may not be used.
ELEC	Electrolytic		
FDTH	Feedthrough	SW	Switch
FLM	Film	TANT	Tantalum
FML	Female	TRIM	Trimmer
GP	General Purpose	UF	Microfarad
IC	Integrated Circuit	UH	Microhenry
K	Kilo (x 1,000)	VAR	Variable
LED	Light-emitting-diode	WPRF	Waterproof
M	Meg (x 1,000,000)	WW	Wirewound
MET OX	Metal Oxide	XSTR	Transistor
MF	Metal Film		
MH	Millihenry		

FSCM	MFR NAME	ADDRESS	ZIP CODE
01121	ALLEN-BRADLEY CO.	50 MILWAUKEE, WI	53204
01295	TEXAS INSTRUMENTS INC.	DALLAS, TX	75222
02660	AMPHENOL CONNECTOR DIV.	BUNKER RANG CORP., BROADVIEW, IL	60153
04618	AMERICAN PACCOR INC.	PAOLI, PA	19301
04713	SEMICONDUCTOR DIV.	MOTOROLA INC., PHOENIX, AZ	85008
05591	GENERAL RESISTANCE DIV.	CHRONETICS INC., MT. VERNON, NY	10550
06665	PRECISION MONOLITHICS	SANTA CLARA, CA	95050
07263	FAIRCHILD SEMICONDUCTOR	MOUNTAIN VIEW, CA	94040
09353	C AND K COMPONENTS INC.	WATERTOWN, MA	02172
11236	CTS OF BERNE INC.	BERNE, IN	46711
11532	TELEDYNE RELAYS	HAWTHORNE, CA	90250
12436	GENERAL DYNAMICS CORP.	SAN DIEGO, CA	92112
14099	SEMTECH CORP.	NEWBURY PARK, CA	91320
14298	AMERICAN COMPONENTS INC.	CONSHOHOCKEN, PA	19428
14433	ITT SEMICONDUCTOR DIV. OF ITT CORP.	W. PALM BEACH, FL	33401
20754	KMC SEMICONDUCTOR CORP.	LONG VALLEY, NJ	07853
21793	DANA LABORATORIES INC.	IRVINE, CA	92664
23880	STANFORD APPLIED ENGINEERING INC.	SANTA CLARA, CA	95050
23936	PAMOTOR INC.	BURLINGAME, CA	94010
26654	VARADYNE INDUSTRIES	SANTA MONICA, CA	90404
28480	HEWLETT-PACKARD CO.	PALO ALTO, CA	94304
32293	INTERSIL INC.	CUPERTINO, CA	95014
34649	INTEL CORP.	SANTA CLARA, CA	95051
50522	ELECTRONIC SPECIAL PRODUCTS	MONSANTO CO., CUPERTINO, CA	95014
50579	LITRONIX INC.	CUPERTINO, CA	95014
56289	SPRAGUE ELECTRIC CO.	NORTH ADAMS, MA	01247
70903	BELDEN CORP.	CHICAGO, IL	60644
71279	CAMBRIDGE THERMIONIC CORP.	CAMBRIDGE, MA	02138
71400	BUSSMAN MFG DIV.	MCGRAW-EDISON CO., ST. LOUIS, MO	63107
71590	CENTRALAB DIV.	GLOBE-UNION INC., MILWAUKEE, WI	53201
71785	CINCH DIV.	TRW ELECTRONIC COMPONENTS, ELK GROVE VILLAGE, IL	60007
72136	ELECTRO-MOTIVE MFG. CO.	WILLIMANTIC, CT	06226
72259	NYTRONICS INC.	PELHAM MANOR, NY	10883
72982	ERIE TECHNOLOGICAL PRODUCTS INC.	ERIE, PA	16512
73138	HELIPOT DIV.	BECKMAN INSTRUMENTS, FULLERTON, CA	92634
75915	LITTELFUSE INC.	DES PLAINES, IL	60016
76854	OAK MFG DIV.	OAK ELECTRO/NETICS CORP., CRYSTAL LAKE, IL	60014
80031	MEPCO/ELECTRA INC.	MORRISTOWN, NJ	07960
80294	INSTRUMENT DIV.	BOURNS INC., RIVERSIDE, CA	92506
81349	MILITARY SPECIFICATION		
82389	SWITCHCRAFT INC.	CHICAGO, IL	60630
86797	ROGAN BROS. INC.	SKOKIE, IL	60076
88140	CUTLER-HAMMER INC.	LINCOLN, IL	62656
91637	DALE ELECTRONICS INC.	COLUMBUS, NE	68601
91836	KINGS ELECTRONICS CO.	TUCKAHOE, NY	10707
95275	VITRAMON INC.	BRIDGEPORT, CT	06601
96341	MICROWAVE ASSOCIATES	BURLINGTON, MA	01801
98291	SEALECTRO	MAMARONECK, NY	10544
99800	DELANAV DIV.	AMERICAN PRECISION INDUST., EAST AURORA, NY	14052
	FOLLOWING MFRS DO NOT HAVE FSCM NUMBER		
0000A	MOLEX INC.	LISLE, IL	60532
0000B	STETTNER-THRUSH	CAZENOVIA, NY	13035
0000C	PLESSEY ELECTRIC-PRODUCTS	LOS ANGELES, CA	90066
0000L	R-OHM CORPORATION	IRVINE, CA	92664
0000S	CALIFORNIA EASTERN LABS.	BURLINGAME, CA	94010
0000T	DATA DISPLAY PRODUCTS	LOS ANGELES, CA	90009
0000X	ANY MANUFACTURER OF THIS PRODUCT		

TABLE 8-2. LIST OF MANUFACTURERS

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
2010061	ASSY:FRNT END, CONVERTER	EIP	(PN D10)
2020109	PCB ASSY:KEYBOARD	EIP	371
2030010-01	OSC,OVENIZED:5X10-9	EIP	
2030010-02	OSC,OVENIZED:1X10-9	EIP	
2030010-03	OSC,OVENIZED:5X10-10	EIP	
2040014	ASSY:HARNESS	EIP	
2040152	ASSY:CABLE,FLEX,CQ-AX	EIP	371(W34)
2100002	CAP:CHIP .001UF 20X 50V	95275	VJ1210A102MF
2100005	CAP:CHIP 150PF 100V	26654	38N100S151K
2150001	CAP:CER .001UF 20X 1KV	56289	5GA-D10
2150003	CAP:CER .01UF 20X 100V	56289	TG-S10
2150005	CAP:CER .002UF 20X 1KV	56289	5GA-D20
2150006	CAP:CER .02UF 20X 100V	56289	TG-S20
2150008	CAP:CER .005UF 20X 100V	56289	TG-D50
2150009	CAP:CER .05UF 20X 100V	56289	TG-S50
2150010	CAP:CER .05UF 20V	71590	UK20-503
2150999	CAP:CER-SELECT AT TEST	56289	TG-XXX
2160002	CAP:CER 1.0PF NPO 500V	72982	301000COK0109C
2160004	CAP:CER 10PF NPO 500V	72982	301000COH0100C
2160005	CAP:CER 12PF NPO 500V	72982	301000CDG0120C
2160006	CAP:CER 15PF NPO 500V	72982	301000COG0150J
2160007	CAP:CER 18PF NPO 500V	72982	301000COG0180J
2160008	CAP:CER 2.2PF NPO 500V	72982	301000COJ0229C
2160010	CAP:CER 24PF NPO 500V	72982	301000COG0240J
2160013	CAP:CER 4.7PF NPO 500V	72982	301000COH0479C
2160015	CAP:CER 8.2PF NPO 500V	72982	301000COH0829C
2160016	CAP:CER 20PF NPO 500V	72982	301000COG0200J
2160999	CAP:CER-SELECT AT TEST	72982	301000COX0XXXX
2200001	CAP:ELEC 1250UF 50V	80031	39CS50GL1251
2200010	CAP:ELEC 8500UF 25V	80031	91S25HA852
2200011	CAP:ELEC 4000UF 15V	80031	91S15J844
2200012	CAP:ELEC 1100UF 15V	80031	39CS15JP113
2250001	CAP:MICA 10PF 5X 500V	72136	DM15CD1000D
2250002	CAP:MICA 100PF 5X 500V	72136	DM15CD101JQ
2250003	CAP:MICA 1000PF 5X 500V	72136	DM15CD102JQ
2250005	CAP:MICA 150PF 5X 500V	72136	DM15CD151JQ
2250006	CAP:MICA 180PF 5X 500V	72136	DM15CD181JQ
2250007	CAP:MICA 2.0PF 25X 500V	72136	DM15CD2R00D
2250008	CAP:MICA 20PF 5X 500V	72136	DM15CD200JQ
2250009	CAP:MICA 200PF 5X 500V	72136	DM15CD201JQ
2250011	CAP:MICA 220PF 5X 500V	72136	DM15CD221JQ
2250012	CAP:MICA 27PF 5X 500V	72136	DM15CD270JQ
2250014	CAP:MICA 33PF 5X 500V	72136	DM15CD330JQ
2250017	CAP:MICA 47PF 5X 500V	72136	DM15CD470JQ
2250018	CAP:MICA 470PF 5X 500V	72136	DM15CD471JQ
2250021	CAP:MICA 56PF 5X 500V	72136	DM15CD560JQ
2250025	CAP:MICA 68PF 5X 500V	72136	DM15CD680JQ
2250026	CAP:MICA 680PF 5X 500V	72136	DM15CD681JQ
2250031	CAP:MICA 7.0PF 10X 500V	72136	DM15CD7R0K0
2250999	CAP:MICA-SELECT AT TEST	72136	DM15CDXXXXX
2260001	CAP:MICA 150PF 5X 500V	72136	DM10CD151JQ
2300003	CAP:TANT .15UF 35V	14433	TAG20-0.15/35-50
2300005	CAP:TANT .47UF 35V	14433	TAG20-0.47/35-50
2300008	CAP:TANT 1.0UF 35V	14433	TAG20-1.0/35-50
2300010	CAP:TANT 10UF 16V	14433	TAG20-10/16-50
2300015	CAP:TANT 33UF 10V	14433	TAG20-33/10-50
2300017	CAP:TANT 47UF 6.3V	14433	TAG20-47/6.3-50
2300020	CAP:TANT .10UF 35V	14433	TAG20-.10/35-50
2300021	CAP:TANT 4.7UF 20X 16V	14433	TAG20-4.7/16
2300022	CAP:TANT 22UF 20X 20V	14433	TAG20-22/20-20
2300023	CAP:TANT 33UF 20X 20V	14433	TAG20-33/20
2300024	CAP:TANT 100UF 20X 6.3V	14433	TAG20-100/6.3
2300025	CAP:TANT 47UF 20X 16V	14433	TAG20-47/16-20
2350001	CAP:TRIM 2-8PF 250V	0000B	105-T-22-2/8
2350002	CAP:TRIM 5.5-18PF 250V	0000B	105-T-22-5.5/18
2350003	CAP:TRIM 8-25PF 250V	0000B	105-T-22-8/25
2350017	CAP:FDTH:RF FILTER,5KPF	04618	859556-1
2350022	CAP:TRIM 5.5-18PF 250V	0000B	105-T-24-5.5/18
2350024	CAP:FLN .039UF 10X 100V	56289	225P39391W03
2610010	CONN:JACK,BLKHD,RCPT	98291	51-045-0000
2610017	CONN:PLUG,PC RCPT,STR	98291	52-052-0000
2610018	CONN:JACK,PC RCPT,STR	98291	51-051-0000
2610024	CONN:BNC,BLKHD,TRS FNSH	91836	KC-79-35
2620006	CONN:PC WAFER 6PIN, ML	0000A	09-18-5061
2620012	CONN:PC WAFER 9PIN, ML	0000A	09-18-5091
2620014	CONN:PC WAFER 4PIN, ML	0000A	09-60-1041
2620016	CONN:PC WAFER, 6PIN, ML	0000A	09-60-1061
2620018	CONN:PC EDGE 18PIN	04618	1-583407-8
2620019	CONN:PC EDGE 8PIN	04618	583407-9
2620027	JACK:PC .080 PIN FML	71279	3398-01-03
2620029	CONN:PC RT AN,3PIN, ML	0000A	09-66-1031
2620030	CONN:PC RT AN,4PIN, ML	0000A	09-66-1041
2620031	CONN:PC RT AN,7PIN, ML	0000A	09-66-1071
2620042	CONN:PC WAFER, 9PIN, ML	0000A	09-60-1091
2620044	CONN:PC WAFER,12PIN, ML	0000A	09-60-1121
2620047	CONN:PC WAFER, 5PIN, ML	0000A	09-60-1051
2630002	SOCKET: 16 PIN,NYLON	0000A	A-4497-16
2630003	SOCKET: 14 PIN,NYLON	0000A	A-4497-14
2630009	SOCKET: 14 PIN IC	71785	14-N-DIP
2630010	SOCKET: 16 PIN IC	71785	16-N-DIP

TABLE 8-3. MASTER PARTS LIST

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
2640004	CONN 50PIN	02660	57-40500
2640005	RECEPTACLE	82389	EAC-301
2700827	DIODE: 6.2V ZENER	04713	1N627
2704001	DIODE: RECT	04713	1N4001
2704154	DIODE: GEN PURP	07263	1N4154
2704370	DIODE: 2.4V ZENER	04713	1N4370
2704757	DIODE: 51V ZENER	04713	1N4757
2705225	DIODE: 3.0V ZENER	0000X	1N5225
2705227	DIODE: 3.6V ZENER	04713	1N5227
2705230	DIODE: 4.7V ZENER	04713	1N5230
2705231	DIODE: 5.1V ZENER	04713	1N5231
2705234	DIODE: 6.2V ZENER	04713	1N5234
2705237	DIODE: 8.2V ZENER	04713	1N5237
2705711	DIODE:HOT CARRIER	28480	1N5711
2710004	DIODE: HOT CARR	07263	FH1100
2710006	DIODE: HOT CARR	28480	5082-2800
2710012	DIODE:VOLT VAR CAP	04713	MV109
2710013	DIODE:LD LKGE-DUAL	32293	DX100
2710014	DIODE,MTCH PR:FH1100	EIP	2710004
2710016	DIODE: HOT CARRIER	28480	5082-2835
2710019	BRDG RECT	14099	SBMB1
2710022	DIODE: PIN	96341	KA47110
2710028	BRDG RECT	04713	MDA990-1
2710029	BRIDE RECT	04713	MDA970-1
2710031	DIODE,GRADED:1N960B-01	EIP	2730960
2710033	DIODE: TUNNEL,SWITCHING	20754	600010C
2720963	DIODE: 12V ZENER	04713	1N963A
2735235	DIODE: 6.8V ZENER	04713	1N5235B
2800004	IC:NUMERIC IND, RED	28480	5082-7730
2800008	LAMP:LED: GREEN	50522	MV5253
2800014	LAMP:LED,YEL DIFFUSED	50522	MV5353
2800015	LAMP:LED,RED	50579	DL-34M
2800016	LAMP:LED,GRN,HI-BRIGHT	0000T	PCV125-BG
3000937	IC:HEX INVERTER	0000X	937N
3007400	IC:QUAD 2INP NAND GATE	0000X	7400N
3007401	IC:QUAD 2INP NAND GATE	0000X	7401N
3007404	IC:HEX INVERTER	0000X	7404N
3007405	IC:HEX INVERTER	0000X	7405N
3007408	IC:QUAD 2INP AND GATE	0000X	7408N
3007411	IC:TRI 3INP AND GATE	0000X	7411N
3007417	IC:HEX BUFFER/DRIVER	0000X	7417N
3007420	IC:DUAL 4INP NAND GATE	0000X	7420N
3007427	IC:TRIPLE 3INP NOR GATE	0000X	7427N
3007432	IC:QUAD 2INP OR GATE	0000X	7432N
3007442	IC:BCD/DEC DECODER	0000X	7442N
3007447	IC:BCD/7SEG DECODER	0000X	7447N
3007454	IC:4WIDE 2INP AOI GATE	0000X	7454N
3007473	IC:DUAL J-K F/F	0000X	7473N
3007475	IC:QUAD LATCH	0000X	7475N
3007476	IC:DUAL J-K F/F	0000X	7476N
3007490	IC:DECADE COUNTER	0000X	7490N
3007493	IC:4BIT BINARY COUNTER	0000X	7493N
3008097	IC:HEX BUFFER	0000X	8097N
3008601	IC:RETRIG ONE SHOT	0000X	8601N
3010616	IC:UHF COUNTER-DIVIDE/4	0000C	SP8616B
3010637	IC:UHF BCD DEC CNTR	0000C	SP8637B
3011039	IC:QUAD TRANSLATOR	0000X	1039P
3011408	IC:8-BIT D/A CONVERTER	0000X	1408L6
3014044	IC:PHASE/FREQ DETECTOR	0000X	4044P
3022206	IC:FUNCTION GENERATOR	0000X	2206CP
3034010	IC:HEX BUFFER/CONVERTER	0000X	4010AE
3034014	IC:P IN/S OUT 8BIT SR	0000X	4014AE
3034511	IC:BCD-7SEG DECODR/DRVR	0000X	4511BE
3035009	IC:P CHAN MOS DIVIDER	0000X	5009N
3037530	IC:MULTIPLYING D/A CONV	0000X	7530JN
3040001	IC:OP AMPL,HI SLEW RATE	06665	OP-01CJ
3040304	IC:VOLT REG	0000X	304
3040305	IC:VOLT REG	0000X	305
3040318	IC:OP AMPL	0000X	318N
3040417	IC:BROAD BAND AMPL	0000X	417
3040585	IC:TIMER,LINEAR	0000X	555V
3040741	IC:OP AMPL	0000X	741CN
3041458	IC:OP AMPL	0000X	1458P1
3041741	IC:OP AMPL,HI SLEW RATE	0000X	1741SCP1
3043049	IC:DUAL/DIFF AMPL	0000X	3049T
3044136	IC:QUAD OP AMPL	0000X	4136PC
3051702	IC:2K UV ERASABLE PROM	34649	1702A
3054040	IC:4-BIT CPU	34649	C4040
3054201	IC:CLOCK GENERATOR	34649	P4201
3070011	IC:S IN/P OUT 8BIT SR	0000X	74LS164P
3070012	IC:4-BIT UP/DN CNTR	0000X	74LS168P
3070013	IC:DATA SELECTR/MPXLR	0000X	74LS157P
3070014	IC:DUAL D F/F	0000X	74574N
3072506	IC:DUAL COMPARATOR	0000X	72506N
3074016	IC:PROGRM MODULO-N CNTR	0000X	4016P
3074123	IC:TTL/MONSTABLE MV	0000X	74123N
3074183	IC:DUAL 4/1 MULTIPLEXR	0000X	74153N

TABLE 8-3 (Continued). MASTER PARTS LIST

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
2010061	ASSY:FRNT END.CONVERTER	EIP	(PN D10)
2020109	PCB ASSY:KEYBOARD	EIP	371
2030010-01	OSC.OVENIZED:5X10-9	EIP	
2030010-02	OSC.OVENIZED:1X10-9	EIP	
2030010-03	OSC.OVENIZED:5X10-10	EIP	
2040014	ASSY:HARNES	EIP	
2040152	ASSY:CABLE.FLEX.CG-AX	EIP	371(W34)
2100002	CAP:CHIP .001UF 20X 50V	95275	VJ1210A102MF
2100005	CAP:CHIP 150PF 100V	26654	38N100S151K
2150001	CAP:CER .001UF 20X 1KV	56289	5GA-D10
2150003	CAP:CER .01UF 20X 100V	56289	TG-S10
2150005	CAP:CER .002UF 20X 1KV	56289	5GA-O20
2150006	CAP:CER .02UF 20X 100V	56289	TG-S20
2150008	CAP:CER .005UF 20X 100V	56289	TG-D50
2150009	CAP:CER .05UF 20X 100V	56289	TG-S50
2150010	CAP:CER .05UF 20V	71590	UK20-503
2150999	CAP:CER-SELECT AT TEST	56289	TG-XXX
2160002	CAP:CER 1.0PF NPO 500V	72982	301000COK0109C
2160004	CAP:CER 10PF NPO 500V	72982	301000COH0100C
2160005	CAP:CER 12PF NPO 500V	72982	301000COG0120C
2160006	CAP:CER 15PF NPO 500V	72982	301000COG0150J
2160007	CAP:CER 18PF NPO 500V	72982	301000COG0180J
2160008	CAP:CER 2.2PF NPO 500V	72982	301000COJ0229C
2160010	CAP:CER 24PF NPO 500V	72982	301000COG0240J
2160013	CAP:CER 4.7PF NPO 500V	72982	301000COH0479C
2160015	CAP:CER 8.2PF NPO 500V	72982	301000COH0829C
2160016	CAP:CER 20PF NPO 500V	72982	301000COG0200J
2160999	CAP:CER-SELECT AT TEST	72982	301000COX0XXX
2200001	CAP:ELEC 1250UF 50V	80031	39CS50GL1251
2200010	CAP:ELEC 8500UF 25V	80031	91S25HA852
2200011	CAP:ELEC 4000UF 15V	80031	91S15JB44
2200012	CAP:ELEC 11000UF 15V	80031	39CS15JP113
2250001	CAP:MICA 10PF 5X 500V	72136	DM15CD1000D
2250002	CAP:MICA 100PF 5X 500V	72136	DM15CD101J0
2250003	CAP:MICA 1000PF 5X 500V	72136	DM15CD102J0
2250005	CAP:MICA 150PF 5X 500V	72136	DM15CD151J0
2250006	CAP:MICA 180PF 5X 500V	72136	DM15CD181J0
2250007	CAP:MICA 2.0PF 25X 500V	72136	DM15CD2R00D
2250008	CAP:MICA 20PF 5X 500V	72136	DM15CD200J0
2250009	CAP:MICA 200PF 5X 500V	72136	DM15CD201J0
2250011	CAP:MICA 220PF 5X 500V	72136	DM15CD221J0
2250012	CAP:MICA 27PF 5X 500V	72136	DM15CD270J0
2250014	CAP:MICA 33PF 5X 500V	72136	DM15CD330J0
2250017	CAP:MICA 47PF 5X 500V	72136	DM15CD470J0
2250018	CAP:MICA 470PF 5X 500V	72136	DM15CD471J0
2250021	CAP:MICA 56PF 5X 500V	72136	DM15CD560J0
2250025	CAP:MICA 68PF 5X 500V	72136	DM15CD680J0
2250026	CAP:MICA 680PF 5X 500V	72136	DM15CD681J0
2250031	CAP:MICA 7.0PF 10X 500V	72136	DM15CD7R0K0
2250999	CAP:MICA-SELECT AT TEST	72136	DM15CDXXXX0
2260001	CAP:MICA 150PF 5X 500V	72136	DM10CD151J0
2300003	CAP:TANT .15UF 35V	14433	TAG20-0.15/35-50
2300005	CAP:TANT .47UF 35V	14433	TAG20-0.47/35-50
2300008	CAP:TANT 1.0UF 35V	14433	TAG20-1.0/35-50
2300010	CAP:TANT 10UF 16V	14433	TAG20-10/16-50
2300015	CAP:TANT 33UF 10V	14433	TAG20-33/10-50
2300017	CAP:TANT 47UF 6.3V	14433	TAG20-47/6.3-50
2300020	CAP:TANT .10UF 35V	14433	TAG20-.10/35-50
2300021	CAP:TANT 4.7UF 20X 16V	14433	TAG20-4.7/16
2300022	CAP:TANT 22UF 20X 20V	14433	TAG20-22/20-20
2300023	CAP:TANT 33UF 20X 20V	14433	TAG20-33/20
2300024	CAP:TANT 100UF 20X 6.3V	14433	TAG20-100/6.3
2300025	CAP:TANT 47UF 20X 16V	14433	TAG20-47/16-20
2350001	CAP:TRIM 2-8PF 250V	0000B	10S-T-22-2/8
2350002	CAP:TRIM 5.5-18PF 250V	0000B	10S-T-22-5.5/18
2350003	CAP:TRIM 8-25PF 250V	0000B	10S-T-22-8/25
2350017	CAP:FDTH:RF FILTER.5KPF	04618	859556-1
2350022	CAP:TRIM 5.5-18PF 250V	0000B	10S-T-24-5.5/18
2350024	CAP:FLM .039UF 10X 100V	56289	225P39391W03
2610010	CONN:JACK,BLKHD,RCPT	98291	51-045-0000
2610017	CONN:PLUG,PC RCPT,STR	98291	52-052-0000
2610018	CONN:JACK,PC RCPT,STR	98291	51-051-0000
2610024	CONN:BNC,BLKHD,TRS FNSH	91836	KC-79-35
2620006	CONN:PC WAFER 6PIN, ML	0000A	09-18-5061
2620012	CONN:PC WAFER 9PIN, ML	0000A	09-18-5091
2620014	CONN:PC WAFER 4PIN, ML	0000A	09-60-1041
2620016	CONN:PC WAFER, 6PIN, ML	0000A	09-60-1061
2620018	CONN:PC EDGE 18PIN	04618	1-583407-8
2620019	CONN:PC EDGE 8PIN	04618	583407-9
2620027	JACK:PC .080 PIN FML	71279	3398-01-03
2620029	CONN:PC RI AN,3PIN, ML	0000A	09-66-1031
2620030	CONN:PC RT AN,4PIN, ML	0000A	09-66-1041
2620031	CONN:PC RT AN,7PIN, ML	0000A	09-66-1071
2620042	CONN:PC WAFER, 9PIN, ML	0000A	09-60-1091
2620044	CONN:PC WAFER,12PIN, ML	0000A	09-60-1121
2620047	CONN:PC WAFER, 5PIN, ML	0000A	09-60-1051
2630002	SOCKET: 16 PIN,NYLON	0000A	A-4497-16
2630003	SOCKET: 14 PIN,NYLON	0000A	A-4497-14
2630009	SOCKET: 14 PIN IC	71785	14-N-DIP
2630010	SOCKET: 16 PIN IC	71785	16-N-DIP

TABLE 8-3. MASTER PARTS LIST

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
2640004	CONN 50PIN	02660	57-40500
2640005	RECEPTACLE	82389	EAC-301
2700827	DIODE: 6.2V ZENER	04713	1N827
2704001	DIODE: RECT	04713	1N4001
2704154	DIODE: GEN PURP	07263	1N4154
2704370	DIODE: 2.4V ZENER	04713	1N4370
2704757	DIODE: 51V ZENER	04713	1N4757
2705225	DIODE: 3.0V ZENER	0000X	1N5225
2705227	DIODE: 3.6V ZENER	04713	1N5227
2705230	DIODE: 4.7V ZENER	04713	1N5230
2705231	DIODE: 5.1V ZENER	04713	1N5231
2705234	DIODE: 6.2V ZENER	04713	1N5234
2705237	DIODE: 8.2V ZENER	04713	1N5237
2705711	DIODE:HOT CARRIER	28480	1N5711
2710004	DIODE: HOT CARR	07263	FH1100
2710006	DIODE: HOT CARR	28480	5082-2800
2710012	DIODE:VOLT VAR CAP	04713	MV109
2710013	DIODE:LD LKGE-DUAL	32293	DX100
2710014	DIODE,MTCH PR:FH1100	EIP	2710004
2710016	DIODE: HOT CARRIER	28480	5082-2835
2710019	BRDG RECT	14099	SBM81
2710022	DIODE: PIN	96341	NA47110
2710028	BRDG RECT	04713	NDA950-1
2710029	BRIDGE RECT	04713	NDA570-1
2710031	DIODE,GRADED:1N9608-01	EIP	2730960
2710033	DIODE: TUNNEL,SWITCHING	20754	G00100C
2720963	DIODE: 12V ZENER	04713	1N963A
2735235	DIODE: 6.8V ZENER	04713	1N5235B
2800004	IC:NUMERIC IND. RED	28480	5082-7730
2800008	LAMP:LED: GREEN	50522	MV5253
2800014	LAMP:LED,YEL DIFFUSED	50522	MV5353
2800015	LAMP:LED,RED	50579	DL-34M
2800016	LAMP:LED,GRN,HI-BRIGHT	0000T	PCV125-BG
3000937	IC:HEX INVERTER	0000X	937N
3007400	IC:QUAD 2INP NAND GATE	0000X	7400N
3007401	IC:QUAD 2INP NAND GATE	0000X	7401N
3007404	IC:HEX INVERTER	0000X	7404N
3007405	IC:HEX INVERTER	0000X	7405N
3007408	IC:QUAD 2INP AND GATE	0000X	7408N
3007411	IC:TRI 3INP AND GATE	0000X	7411N
3007417	IC:HEX BUFFER/DRIVER	0000X	7417N
3007420	IC:DUAL 4INP NAND GATE	0000X	7420N
3007427	IC:TRIPLE 3INP NOR GATE	0000X	7427N
3007432	IC:QUAD 2INP OR GATE	0000X	7432N
3007442	IC:BCD/DEC DECODER	0000X	7442N
3007447	IC:BCD/7SEG DECODER	0000X	7447N
3007454	IC:4WIDE 2INP AND GATE	0000X	7454N
3007473	IC:DUAL J-K F/F	0000X	7473N
3007475	IC:QUAD LATCH	0000X	7475N
3007476	IC:DUAL J-K F/F	0000X	7476N
3007490	IC:DECADE COUNTER	0000X	7490N
3007493	IC:4BIT BINARY COUNTER	0000X	7493N
3008097	IC:HEX BUFFER	0000X	8097N
3008601	IC:RETRIG ONE SHOT	0000X	8601N
3010616	IC:UHF COUNTER-DIVIDE/4	0000C	SP8616B
3010637	IC:UHF BCD DEC CNTR	0000C	SP8637B
3011039	IC:QUAD TRANSLATOR	0000X	1039P
3011408	IC:8-BIT D/A CONVERTER	0000X	1408L6
3014044	IC:PHASE/FREQ DETECTOR	0000X	4044P
3022206	IC:FUNCTION GENERATOR	0000X	2206CP
3034010	IC:HEX BUFFER/CONVERTER	0000X	4010AE
3034014	IC:P IN/S OUT 8BIT SR	0000X	4014AE
3034511	IC:BCD-7SEG DECODR/DRVR	0000X	4511BE
3035009	IC:P CHAN NOS DIVIDER	0000X	5009N
3037530	IC:MULTIPLYING D/A CONV	0000X	7530JN
3040001	IC:OP AMPL,HI SLEW RATE	06665	OP-01CJ
3040304	IC:VOLT REG	0000X	304
3040305	IC:VOLT REG	0000X	305
3040318	IC:OP AMPL	0000X	318N
3040417	IC:BROAD BAND AMPL	0000X	417
3040555	IC:TIMER,LINEAR	0000X	555V
3040741	IC:OP AMPL	0000X	741CN
3041458	IC:OP AMPL	0000X	1458P1
3041741	IC:OP AMPL,HI SLEW RATE	0000X	1741SCP1
3043049	IC:DUAL/DIFF AMPL	0000X	3049T
3044136	IC:QUAD OP AMPL	0000X	4136PC
3051702	IC:2K UV ERASABLE PROM	34649	1702A
3054040	IC:4-BIT CPU	34649	C4040
3054201	IC:CLOCK GENERATOR	34649	P4201
3070011	IC:S IN/P OUT 8BIT SR	0000X	74LS164P
3070012	IC:4-BIT UP/DN CNTR	0000X	74S168P
3070013	IC:DATA SELECTR/MPXLR	0000X	74LS157P
3070014	IC:DUAL D F/F	0000X	74S74N
3072506	IC:DUAL CCMPARATOR	0000X	72506N
3074016	IC:PROGRM MODULO-N CNTR	0000X	4016P
3074123	IC:TTL/MONOSTABLE MV	0000X	74123N
3074153	IC:DUAL 4/1 MULTIPLEXR	0000X	74153N

TABLE 8-3 (Continued). MASTER PARTS LIST

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
3074155	IC:DUAL 2/4LINE DECODR	0000X	74155N
3074157	IC:QUAD 2INP MULTIPLEXR	0000X	74157N
3074176	IC:PRESET DEC COUNTER	0000X	74176N
3074192	IC:DUAL CLOCK W/CLEAR	0000X	74192N
3074196	IC:PST DECADE COUNTER	0000X	74196N
3074393	IC:DUAL 4-BIT BIN CNTR	0000X	74393P
3074490	IC:DUAL DECADE CNTR	0000X	74490P
3090002	IC:QUAD 2INP AND GATE	0000X	74H08N
3110105	IC:TRI OR GATE	0000X	10105L
3110131	IC:DUAL D F/F	0000X	10131L
3110138	IC:BI-QUINARY COUNTER	0000X	10138P
3112000	IC:DIGITAL MIXER/TRANS	0000X	12000P
3112013	IC:TWC-MODULUS PRECALR	0000X	12013P
3112014	IC:CNTR CONTROL LOGIC	0000X	12014P
3114050	IC:NON-INVERT HEX BUFFR	0000X	14050CP
3150005	IC CUSTOM CHIP - ROM	34649	4308-3251
3510001	INDUCTOR: 0.1UH	72259	DD-0.10
3510003	INDUCTOR: 1.0UH	72259	DD-1.00
3510004	INDUCTOR: 0.22UH	72259	DD-0.22
3510005	INDUCTOR: 2.2UH	72259	DD-2.20
3510007	INDUCTOR: .33UH	99800	1025-08
3510008	INDUCTOR: 0.15UH	99800	1025-00
3510010	INDUCTOR: 1.2UH	99800	1025-22
3510011	INDUCTOR: 0.12UH	72259	DD-0.12
3520007	INDUCTOR: 100 UH	99800	1537-76
3900003	RELAY:SIGNAL,DPDT	11532	712-12
4000XXX	RSTR:COMP 5% TOL, 1/8W	81349	RC05GFXXXJ
4000999	RSTR:COMP-SLECT AT TEST	81349	RC05GFXXXJ
4010XXX	RSTR:COMP 5% TOL, 1/4W	81349	RC07GFXXXJ
4010519	RSTR:COMP 5.1 OHMS 5X	81349	RC07GF5R1J
4010569	RSTR:COMP 5.6 OHMS 5X	81349	RC07GF5R6J
4010999	RSTR:COMP-SLECT AT TEST	81349	RC07GFXXXJ
4020XXX	RSTR:COMP 5% TOL, 1/2W	81349	RC20GFXXXJ
4051002	RSTR:PREC 10K OHM 1X	81349	RN55C1002F
4051332	RSTR:PREC 13.3K OHM 1X	81349	RN55C1332F
4052003	RSTR:PREC 200K OHM 1X	81349	RN55C2003F
4053922	RSTR:PREC 39.9K OHM 1X	81349	RN55C3922F
4054992	RSTR:PREC 49.9K OHM 1X	81349	RN55C4992F
4057151	RSTR:PREC 7.15K OHM 1X	81349	RN55C7151F
4057500	RSTR:PREC 750 OHM 1X	81349	RN55C7500F
4061101	RSTR:PREC 1.1K OHM 1X	81349	RN55D1101F
4061472	RSTR:PREC 14.7K OHM 1X	81349	RN55D1472F
4062152	RSTR:PREC 21.5K OHM 1X	81349	RN55D2152F
4062261	RSTR:PREC 2.26K OHM 1X	81349	RN55D2261F
4062431	RSTR:PREC 2.43K OHM 1X	81349	RN55D2431F
4062871	RSTR:PREC 2.87K OHM 1X	81349	RN55D2871F
4065621	RSTR:PREC 5.62K OHM 1X	81349	RN55D5621F
4065761	RSTR:PREC 5.76K OHM 1X	81349	RN55D5761F
4068661	RSTR:PREC 8.66K OHM 1X	81349	RN55D8661F
4101003	RSTR:PREC 100K OHM .1X	14298	AME55-C3-1003B
4102003	RSTR:PREC 200K OHM .25X	14298	AME55-C3-2003C
4104003	RSTR:PREC 400K OHM .5X	14298	AME55-C1-4003D
4108002	RSTR:PREC 80K OHM .1X	14298	AME55-C3-8002B
4110003	RSTR:WV 5 OHM 1X 7W	12436	T7(10PPM)
4110004	RSTR:WV 0.5 OHM 3X 5W	91637	RS-28
4110013	RSTR:WV 0.15 OHM 3X 5W	91637	RS-5
4120004	RSTR:CBN FLM 5.6 OHM 5X	0000L	R25-5.6-5X-1/4W
4120008	RSTR:CBN FLM 8.2 OHM 5X	0000L	R25-8.2-5X-1/4W
4120015	RSTR:CMT FLM 1.24MEG 1X	01121	CC1244F
4120016	RSTR:CMT FLM 2.49MEG 1X	01121	CC2494F
4120017	RSTR:CMT FLM 4.99MEG 1X	01121	CC4994F
4120018	RSTR:CMT FLM 10.0MEG 1X	01121	CC1005F
4130XXX	RSTR:MET OX,100PPM,1/4W	24546	C4/2X/OHMS
4130999	RSTR:MTOX-SLECT AT TEST	24546	C4/2X/XXX
4140030	RSTR:PREC 8K OHM .01X	05591	TYPE 4S8P1S8
4140031	RSTR:PREC 10K OHM .01X	05591	TYPE 4S8P1S8
4140032	RSTR:PREC 20K OHM .025X	05591	TYPE 4S8P1S8
4140033	RSTR:PREC 40K OHM .05X	05591	TYPE 4S8P1S8
4140034	RSTR:PREC 3K OHM .1X	05591	TYPE 4S8P1S8
4140035	RSTR:PREC 8K OHM .1X	05591	TYPE 4S8P1S8
4140039	RSTR:PREC 3.7K OHM .1X	05591	TYPE 4S8P1S8
4150XXX	RSTR:MET OX,100PPM,1/8W	24546	C3/2X/OHMS
4150999	RSTR:MTOX-SLECT AT TEST	24546	C3/2X/XXX
4250001	RSTR:VAR CER 100 OHM	73138	72XWR100
4250003	RSTR:VAR CER 1K OHM	73138	72XWR1K
4250005	RSTR:VAR CER 5K OHM	73138	72XWR5K
4250006	RSTR:VAR CER 10K OHM	73138	72XWR10K
4250008	RSTR:VAR CER 100K OHM	73138	72XWR100K
4250009	RSTR:VAR CER 500 OHM	73138	72XWR500
4250999	RSTR:VAR-SELECT AT TEST	73138	72XWRXXX
4260001	RSTR:VAR CER 10K OHM	80294	3059J-1-103M
4280009	RSTR:VAR WV 500 OHM	73138	89PR-500
4290001	RSTR:VAR 250K/SPDT SW	11236	EF8078/RVF45
4290002	RSTR:VAR 250K/SPDT,WPRF	11236	4P1793RVF-WS321
4500007	SWITCH:P/B,8-STATN (D)	EIP	SRCE CONT DWG
4500008	SWITCH:P/B (PWR IND)	EIP	SRCE CONT DWG
4510001	SWITCH:TOG,SPDT,120V,5A	09353	7101H
4510005	SWITCH:TOG,SPDT,125V 5A	88140	SF21FCW191
4510006	SWITCH:TOG,SPDT,125V10A	88140	SF21SCW191
4520004	SW:SLD,2-OPDT (PWR CHG)	82389	47227LFE
4530008	SWITCH:LEVER (BAND SEL)	76654	555462723-184EA I
4540002	SWITCH,THUMBWHEEL: BCD	23980	900048

TABLE 8-3 (Continued). MASTER PARTS LIST

EIP P/N	ITEM DESCRIPTION	MFR	MFR PART NUMBER
4703563	XSTR: NPN	07263	2N3563
4704124	XSTR: NPN GP	04713	2N4124
4704126	XSTR: PNP GP	04713	2N4126
4704258	XSTR: PNP RF	07263	2N4258
4704401	XSTR: NPN	04713	2N4401
4704416	XSTR: N-CHAN JFET	04713	2N4416
4704959	XSTR: PNP RF	04713	2N4959
4705983	XSTR: NPN PWR	04713	2N5983
4705989	XSTR: NPN PWR	04713	2N5989
4710002	XSTR: PNP PWR	04713	MJE370
4710003	XSTR: NPN PWR	04713	MJE520
4710007	XSTR: NPN PWR	04713	MJE371
4710009	XSTR: PNP	04713	MJE350
4710010	XSTR: PNP RF	04713	MPS-H81
4710011	XSTR: GRADED 2N5179-RED	EIP	4705179
4710012	XSTR: GRADED 2N5179-YEL	EIP	4705179
4710013	XSTR: GRADED 2N5179-GRN	EIP	4705179
4710014	XSTR: MICH PR, 2N5179-RED	EIP	4710011
4710015	XSTR: MICH PR, 2N5179-YEL	EIP	4710012
4710017	XSTR: NPN RF SW	04713	MMT3960
4710018	XSTR: PNP AMPL	04713	MPS-L51
4710019	XSTR: PNP AMPL	04713	MPS-D55
4710022	XSTR: N-CHAN JFET	01295	TIS73
4710023	XSTR: PNP RF	01295	AST4261
4710025	XSTR: NPN RF	04713	MMT2857
4710026	XSTR: NPN RF	00005	NE73432B
4720002	XSTR: NPN RF	04713	2N3866
4900002	TRANSFORMER, POWER	EIP	SRCE, CONT, DWG.
4900004	TRANSFORMER, POWER	EIP	SPEC, CONT, DWG
5000012	FAN, AXIAL, 115VAC	23936	8500
5000052	FUSE HOLDER	75915	348877
5000055	TILT BAIL	21793	453458
5000056	KNOB: RND W/ INSERT .51D	86797	RB67-0ML, 25SHFT
5000060	KEY, POLARIZING, PCB CONN	04618	530030-1
5000079	FUSE: .750A, SB, 3AG, 250V	71400	MDL-3/4A
5000101	FUSE: 1.5A, SB, 3AG, 250V	71400	MDX-1-1/2
5000118	KNOB: LEVER SWITCH	76854	J-446A-201
5210023	COVER, ENCL: TOP	21793	453453
5210024	COVER, ENCL: BOTTOM	21793	453454
5220002	PAD, RUBBER, ENCL FOOT	EIP	N/F: 5660004
5230002	GUIDE, PCB	EIP	SRCE CONT DWG
5440002	LINE CORD SET, 3-COND	70903	17250

TABLE 8-3 (Continued). MASTER PARTS LIST

**ASSY A1 COMPONENTS
(BASIC COUNTER)**

REF	EIP	P/N
B1 (FAN)	5000012	
F1 (115V)	5000101	
F1 (230V)	5000079	
J1 (PWR RECPT)	2640005	
J2 (OPT 09)	2640004	
J3 (OPT 01,06,07)	2640004	
J4 (10 MHz)	2610024	
J111-112	2610024	
J113 (P/O A206)		
SMPL RT KNOB	5000056	
TILT BAIL	5000055	
TOP COVER	5210023	
BTM COVER	5210024	
MTG FOOT	5220002	
AC PWR CORD	5440002	
S1 (POWER)	4500008	
S102 (115/230)	4520006	
S103 (INT/EXT)	4510001	
T1 (PWR XFMR)	4900004	
XF1 (FUSE HLDR)	5000052	

**PCB ASSY A101
COUNT CHAIN 1
P/N: 2020036**

REF	SAME	EIP	P/N
C1		2150003	
C2		2300015	
C3-4	C1		
C5		2250011	
C6-10	C1		
C11-12	C5		
J1		2630009	
R1-6		4010332	
R7		4010391	
R8-11		4010122	
R12		4010222	
R13-14	R8		
R15-21		4010101	
R22	R7		
U1		3007490	
U2		3007493	
U3		3007402	
U4		3007404	
U5	U1		
U6	U4		
U7	U3		
U8	U4		
U9	U1		
U10		3007401	
U11		3007411	
U12	U3		
U13		3007408	

U14	U3		
U15		3074176	
U16	U4		
U17		3007454	
U18		3007400	
U19	U3		
U20	U18		
U21		3007405	
U22		3007447	
U23-24		3007476	

**PCB ASSY A102
COUNT CHAIN 2
P/N: 2020034**

REF	SAME	EIP	P/N
C1		2300015	
C2-4		2150003	
J1-5		2630009	
R1		4010222	
R2		4010122	
R3	R1		
R4-17		4010101	
R18-19	R2		
R20		4010569	
R21-23	R2		
U1-2		3007447	
U3		3007405	
U4		3074176	
U5		3007475	
U6		3074153	
U7	U4		
U8	U5		
U9	U6		
U10	U4		
U11	U5		
U12	U4		
U13	U5		
U14	U6		
U15	U4		
U16	U5		
U17	U6		
U18	U4		
U19	U5		
U20		3007432	
U21	U5		

**PCB ASSY A103
COUNT CHAIN 3
P/N: 2020051**

REF	SAME	EIP	P/N
C1		2150003	
C2		2150999	

C3	C1		
C4		2300015	
C5-6	C1		
C7		2300029	
C8	C1		
C9	C4		
C10	C1		
CR1-8		2705711	
CR9		2704154	
J1-2		2630009	
Q1-3		4710012	
Q4		4704124	
Q5		4704126	
Q6	Q1		
Q7	Q5		
Q8		4710003	
R1		4010131	
R2		4010361	
R3		4010200	
R4		4010221	
R5		4010121	
R6		4010431	
R7		4010301	
R8		4010102	
R9		4010222	
R10-12	R8		
R13	R9		
R14	R8		
R15		4010330	
R16		4010332	
R17	R8		
R18		4010471	
R19		4010391	
R20		4250009	
R21		4010821	
R22	R8		

Q19		4710012	
Q1		4704124	
Q4		4704126	
Q5	Q1		
Q6-7	Q4		
Q8-9	Q1		
Q10-15	Q4		
Q16-18	Q1		
Q19	Q4		
R1-3			4010222
R4-6			4010151
R7-9			4010102
R10	R1		
R11			4010681
R12	R1		
R13	R7		
R14	R4		
R15	R1		
R16			4010473
R17	R1		
R18			4010272
R19-20	R1		
R21	R18		
R22			4010103
R23	R18		
R24			4010104
R25-26	R1		
R27			4010101
R28			4010562
R29	R27		
R30	R22		
R31			4010561
R32-33	R7		
R34	R28		
R35	R7		
R36	R11		
R37	R1		
R38	R28		
R39	R22		
R40	R28		
R41	R22		
R42-43	R28		
R44	R22		
R45	R28		
R46	R22		
R47-48	R28		
R49-51	R7		
R52	R11		
R53	R22		
R54	R31		
R55	R7		
R56			4010332
R57-58	R1		
R59-60	R7		
R61-62	R22		
R63	R28		
R64	R1		
R65			4010182

**PCB ASSY A104
CONTROL 2
P/N: 2020010**

REF	SAME	EIP	P/N
C1		2150003	
C2-3		2300015	
C4	C1		
C5		2300029	
C6		2150001	
C7		2300017	
C8-9	C5		
C10-11	C1		

TABLE 8-4. REPLACEABLE PARTS LIST

REF	SAME	EIP P/N	PCB ASSY A107 POWER SUPPLY P/N: 2020077	PCB ASSY A108 REF. OSC. BUFFER P/N: 2020012	PCB ASSY A109 PRESCALER P/N: 2020019
R65-66		4130560	J1	2620006	J1 2630009
R67	R52				J2 2620029
R68		4130999	Q1	4710002	J3 2620012
R69		4130390	Q2	4710001	J4 2620030
R70		4130470	Q3		
R71	R29		Q4	4705989	Q1-4 4703563
R72		4130200	Q5	4704126	Q5 4704258
R73	R52		Q6		Q6 4710011
R74		4010100	Q7		Q7-8 Q1
R75		4130750	Q8		Q9 Q5
R76	R21		Q9		Q10 Q1
R77	R68		Q10		Q11 Q5
R78	R63				Q12-13 Q1
R79		4010151	R1	4010680	Q14 Q5
R80-82	R24		R2	4130240	Q15 Q1
R83		4010681	R3	4130821	Q16 Q6
R84-85	R24		R4	4110012	Q17-18 Q1
			R5		Q19 Q5
U1		3112013	R6	4061472	
U2		3070014	R7	4250009	R1 4010822
U3-5		3074016	R8	4062261	R2 4010392
U6		3070012	R9	4020430	R3 4010391
U7		3112014	R10		R4 4010681
U8		3080164	R11	4130200	R5 4010202
U9		3080164	R12	4130101	R6 R1
U10		3084157	R13	4110013	R7 4010222
U11		3014044	R14	4065621	R8 4010751
U12		3041458	R15		R9 R5
U13		3040318	R16	4062871	R10 R1
U14		3037530	R17	4130123	R11 4010181
U15		3074490	R18		R12 4010270
U16-17		3043049	R19	4130911	R13 4010301
U18		3010637	R20	4065761	R14 4010100
			R21	4250003	R15 R1
			R22	4062431	R16 4010432
			R23		R17 R4
			R24	4010101	R18 4010561
			R25	4010102	R19 R14
			R26	4130512	R20 4010112
			R27	4110004	R21-22 4010519
			R28		R23 4130103
			R29	4010911	R24 4130202
			R30		R25 4130621
			R31		R26 4130999
			R32		R27 4130431
			R33		R28 R7
			R34		R29 4010512
			R35		R30 R1
			U1-2	3040305	R31 4010362
			U3-4	3040304	R32 4010621
					R33 4010361
					R34 4010431
					R35 4130911
					R36 R7
					R37 R14
					R38 R1
					R39 R16
					R40 R4
					R41 R18
					R42 R14
					R43 R20
					R44-45 R21
					R46 4010999
					U1 3007401
C1		2200010			R1 4010221
C2		2300029			R2 4010240
C3		2250017			R3 R1
C4	C2				R4 4010391
C5		2200011			R5-6 4000151
C6	C2				R7 4000510
C7		2250009			R8 4010184
C8		2300025			R9-10 4150390
C9	C2				R11 4010100
C10		2300008			R12 4010102
C11		2150001			R13 4010681
C12	C1				R14 R8
C13	C2				R15-16 4051002
C14	C10				R17 4010472
C15	C11				R18 4010332
C16	C2				R19 4010224
C17		2200012			R20 4010562
CR1-4		2704001			R21-22 4010152
CR5		2710028			R23 4010122
CR6		2710029			R24 4000999
CR7-8	CR1				R25-26 4000220
CR9		2720963			R27 R12
CR10-11	CR1				R28 4010999
CR12	CR9				R29 4010101
					R30 R12
					R31-32 R13
					R33 4010103

TABLE 8-4. REPLACEABLE PARTS LIST

				PCB ASSY A113 CNTR INTERCONNECT P/N: 2020069			PCB ASSY A122 MICROPROCESSOR P/N: 2020107		
REF	SAME	EIP P/N		REF	SAME	EIP P/N	REF	SAME	EIP P/N
R34		4010222	C7			2300022			
R35	R1		C8-9			2300015			
R36		4010331	C10-11	C2					
R37	R12		C12			2160013			
R38-39	R21								
R40	R33		CR1			2735235			
R41		4250003	CR2-5			2704154			
R42	R18		CR6-9			2710016			
R43	R12		CR10	CR2					
R44	R33		CR11			2710031			
R45	R20								
R46		4010243	FL1-3			2350017			
R47	R33								
R48		4010999	J1			2620027			
			J2			2610018			
U1		3040417							
U2		3010616	K1			3900003			
U3-4		3040741							
			L1-3	(P/O PCB)					
PCB ASSY A110 DISPLAY P/N: 2020004			Q1			4704126			
			Q2			4704416			
			Q3			4710012			
			Q4			4710010			
REF	SAME	EIP P/N							
DS1-11		2800004	R1			4010510			
DS12		2800008	R2			4020510			
DS13-15		2800014	R3			4000105			
			R4			4010911			
			R5			4010821			
J1-2		2040001	R6			4010105			
			R7			4010512			
P1		2040013	R8			4010682			
			R9			4010100			
Q1-7		4710019	R10			4010472			
			R11			4010470			
R1		4010471	R12			4010181			
R2		4010122	R13			4010121			
R3	R1		R14	R5					
R4	R2		R15			4010182			
R5	R1		R16	R5					
R6	R2		R17			4130102			
R7	R1		R18			4130999			
R8	R2		R19			4010221			
R9		4010331	R20			4130999			
R10	R2		R21			4010331			
R11		4010681	R22-23			4010102			
R12	R2		R24	R17					
R13	R11		R25			4130910			
R14	R9		R26			4010569			
R15	R2		R27			4130101			
			R28-29	R22					
			R30			4010511			
PCB ASSY A111 PREAMPLIFIER P/N: 2020046			U1			3043049			
REF	SAME	EIP P/N							
C1		2250018							
C2		2150003							
C3		2250012							
C4		2300017							
C5		2300029							
C6	C2								

TABLE 8-4. REPLACEABLE PARTS LIST

R32	R8			C67	2250014	R14	4130241
R33		4010105		C68	(NOT USED)	R15	4130182
R34		4010183		C69-80	C1	R16	4130122
R35-36		4130513		C81-82	C6	R17-18	4130622
R37	R13		REF	C83-84	C1	R19	4130562
R38	R6			CR1	2710006	R20	4130912
R39		4010999	A2Q1	CR2	2704154	R21	4130302
R40	R19			CR3	2710012	R22	R16
R41		4130273		CR4	CR2	R23	4130821
R42		4130302		CR5	CR1	R24	4130102
R43	R19			CR6-11	CR2	R25	4010102
R44-45		4130152				R26	4010472
R46	R19			FL1-4	2350018	R27	4130511
R47-50		4130820				R28	4130221
R51		4010510		J1-3	2610010	R29	R27
U1		3054201				R30	R15
U2		3054040		L1-2	(NOT USED)	R31	R28
U3		3150005		L3	3520007	R32	4130332
U4		3034010		L4	3510003	R33	4130243
U5-6		3070011		L5-6	(P/O PCB)	R34	4010243
U7		3022206		L7	L4	R35	R33
U8		3044136		L8-9	(P/O PCB)	R36	R24
U9		3041458		L10	3510010	R37	4130113
U10		3037530		L11	3510001	R38	4010393
U11-12		3034014		L12	L4	R39	4130201
Y1		2030013		L13	(P/O PCB)	R40	R24
				L14-15	L10	R41	R20
				L16	L4	R42	R21
				L17	(P/O PCB)	R43	R16
				L18-21	L10	R44	R23
				L22	3510011	R45	R24
				L23	L4	R46	R4
				L24-33	L10	R47	R21
						R48	R39
						R49	4130300
				Q1-2	4704124	R50	R9
				Q3	4710012	R51	R17
				Q4	4710010	R52	R24
				Q5	Q3	R53	R33
				Q6-7	4704416	R54	(NOT USED)
				Q8	Q3	R55	4010561
				Q9	Q4	R56	R2
				Q10	4704126	R57-58	R17
				Q11	4710013	R59	R24
				Q12	Q6	R60	4130223
				Q13-14	Q3	R61	R24
				Q15-16	4720002	R62	4130103
				Q17	4710003	R63	R37
				Q18-21	Q10	R64	R23
				Q22	Q1	R65	4130272
						R66	4010272
				R1	4010222	R67	4130472
				R2	4010510	R68	R9
				R3	4130682	R69	R32
				R4	4130392	R70	4010101
				R5	4130271	R71	4010103
				R6	4130202	R72-78	R70
				R7	R4	R79	(NOT USED)
				R8	R3	R80-81	4130222
				R9	4130999	U1	3010657
				R10-11	(NOT USED)	U2	(NOT USED)
				R12	4010391	U3	3014044
				R13	4010111	U4-5	3040741

PCB ASSY A2 COMPONENTS (CONVERTER TRAY)			
REF	SAME	EIP P/N	
A2Q1		4710009	
PCB ASSY A201 SOURCE/AMPLIFIER (P/O MODULE ASSY 2010091)			
REF	SAME	EIP P/N	
C1-2		2150003	
C3		2300008	
C4		2300015	
C5		2250032	
C6		2150001	
C7-10	C1		
C11		2160016	
C12		2160007	
C13-15	C1		
C16		2350003	
C17		2160013	
C18		2160006	
C19	C1		
C20		2250005	
C21	C1		
C22		2160005	
C23		2350001	
C24		2160008	
C25		2160004	
C26-28	C1		
C29-30	C22		
C31	C11		
C32	C1		
C33-34	C6		
C35	C16		
C36	C17		
C37	C18		
C38	C1		
C39		2250002	
C40		2350002	
C41-42		2160010	
C43-44	C1		
C45	C40		
C46	C41		
C47-49	C1		
C50	C39		
C51	C1		
C52	C40		
C53	C41		
C54-55	C1		
C56		2350022	
C57-58	C39		
C59-61	C1		
C62		2300029	
C63	C6		
C64-66	C1		

TABLE 8-4. REPLACEABLE PARTS LIST

R72	R26		C37-40	C2	R12	R5	R78		4130163
R73		4010999	C41	C5	R13	R6	R79	R1	
R74		4010303	C42-45	C2	R14	R7	R80		4130222
R75	R3		C46	C5	R15	R9	R81-82	R63	
R76-77	R30		C47	C2	R16	R10	R83		4130102
R78-79		4057151	C48	C2	R17	R4	R84	R52	
R80	R42		C49		2300029	R18	R85		4250003
R81		4010133	C50		2160002	R19	R86		4130681
R82	R7		C51		2160015	R20	R7		
			C52-55	C2		R21	R7		
U1		3043049	C56	C5		R22	R9		
U2		3040741	C57-64	C2		R23	R10		
U3		3043130	C65		2250027	R24			4130510
U4		3072506	C66		2250002	R25	R10		
U5		3074123	C67	C2		R26			4010112
U6		3007473	C68	C49		R27			4130121
U7		3007408	C69	C2		R28			4010221
U8		3041741	C70	C66		R29			4120004
U9	U4					R30	R27		
U10		3007400	CR1-2		2710022	R31	R4		
U11-12	U6		CR3-4		2710004	R32	R29		
U13		3007405	CR5	(NOT USED)		R33	R7		
U14	U1		CR6	CR3		R34	R6		
U15	U5		CR7		2704370	R35	R9		
U16		3011408	CR8		2704001	R36	R10		
U17		3074393	CR9		2704154	R37	R4		
U18		3007420				R38	R5		
U19	U5		FL1	(NOT USED)		R39	R6		
			FL2-4		2350018	R40	R7		
						R41			4010102
			J1		2610017	R42	R9		
			J2-5		2610010	R43	R10		
						R44	R4		
			L1		3510005	R45	R5		
			L2	(JUMPER)		R46	R7		
			L3-9	(P/O PCB)		R47	R19		
			L10		3510007	R48	R9		
			L11-20	(P/O PCB)		R49	R10		
						R50	R4		
			Q1		4700026	R51	R5		
			Q2-3		4710011	R52			4130821
			Q4-5		4710012	R53			4010999
			Q6-7	Q1		R54	R19		
			Q8	Q4		R55	R24		
			Q9		4710013	R56			4130471
			Q10-11		4704124	R57			4010121
			Q12-13		4704126	R58	R24		
			Q14	Q10		R59			4130152
			Q15	Q12		R60			4130272
			Q16	Q1		R61			4250008
			Q17	Q4		R62			4130133
						R63			4130103
			R1		4130132	R64			4010391
			R2		4130201	R65-66	R41		
			R3		4130421	R67			4010473
			R4		4130242	R68	R61		
			R5		4130560	R69-70			4010822
			R6		4120008	R71			4010569
			R7		4130911	R72-73			4010163
			R8		4010222	R74	R41		
			R9		4130999	R75			4130122
			R10		4130621	R76	R63		
			R11	R4		R77			4130910
ASSY A204/A205/A206									
AUTOMATIC INPUT									
LEVEL CONTROL (ASSY'S									
PART OF MATCHED SET)									
P/N: 2010061									
PCB ASSY A204									
VIDEO AMPL (PART OF									
MODULE ASSY 2010045)									
REF	SAME	EIP P/N							
C1		2250018							
C2		2150003							
C3		2160002							
C4	C2								
C5		2250006							
C6-9	C2								
C10	C5								
C11-14	C2								
C15	C5								
C16-19	C2								
C20-21		2250009							
C22	C2								
C23		2150001							
C24-25	C2								
C26	(NOT USED)								
C27	C23								
C28-30	C2								
C31	C5								
C32-35	C2								
C36	C5								
ASSY A205									
MIXER									
PART OF P/N: 2010061									
U1		3040001							
U2-4		3040741							
U5		3041741							
ASSY A206									
PIN DIODE ATTENUATOR									
PART OF P/N: 2010061									
(NO REPLACEABLE									
COMPONENTS)									
ASSY A207									
YIG COMB GENERATOR									
P/N: 2010097-02									
(NO REPLACEABLE									
COMPONENTS)									

TABLE 8-4. REPLACEABLE PARTS LIST

PCB ASSY A208
CONV INTERCONN
P/N: 2020044

REF	SAME	EIP P/N
J1		2620042
J2		2040027
J3		2620014

PROGRAMMING OPTION
PC BOARD (NOTE: THIS
BOARD IS USED FOR
SEVERAL OPTIONS;
PARTS USAGE WILL
VARY ACCORDINGLY.)

PCB ASSY A115
PROGRAMMING
P/N: 2020104

REF	SAME	EIP P/N
C1		2150003
C2		2300015
C3-4	C1	
J1-6		2630009
P1		2640004
R1		4010151
U1-4		3007405
U5		3007408
U6		3007400
U7-9		3074157

OPTIONS 03, 04, 05:
OVENIZED OSCILLATOR
ASSY A112

REF	EIP P/N
OPT 03	2030001-01
OPT 04	2030001-02
OPT 05	2030001-03
R1(T/B ADJ)	4260001
W14	2040009

PCB ASSY A114
OVEN OSC PWR SUPPLY
P/N: 2020022

REF	SAME	EIP P/N
C1		2200014
C2		2300029
C3		2250017
C4		2300008
CR1		2710019
CR2-3		2704001
Q1		4710007
R1		4110004
R2		4062152
R3		4250009
R4		4061101
T1		4900002
U1		3040305

OPTION 06: PROGRAM-
MABLE OFFSETS

PCB ASSY A100
P/N: 2020033

REF	SAME	EIP P/N
C1		2300015
C2-4		2150003
J1		2630009
Q1		4704124
R1-3		4010222
U1		3007402
U2		3007404
U3-4		3007476
U5		3007408
U6-8		3074192

OPTION 09: BCD OUTPUT

PCB ASSY A117
BCD OUTPUT
P/N: 2020039

REF	SAME	EIP P/N
C1-2		2150003
C3		2300015
C4	C1	
CR1		2704154
J1-3		2630009
J4		2620014
P1		2640004
Q1		4704401
R1		4010220
R2-3		4010103
U1-8		3000937