

Section 6

List of Replaceable Parts

TABLE OF CONTENTS

ASSEMBLY NAME	DRAWING NO.	TABLE NO. PAGE	FIGURE NO. PAGE
Front Panel Final Assembly	5700A-T&B	6-1. 6-5	6-1. 6-6
Chassis Final Assembly	5700A-T&B	6-1a. 6-7	6-1a. 6-8
Rear Panel Final Assembly	5700A-T&B	6-1b. 6-10	6-1b. 6-11
A1 Keyboard PCA	5700A-7603	6-2. 6-12	6-2. 6-13
A2 Front Panel PCA	5700A-7602	6-3. 6-14	6-3. 6-15
A3 Analog Motherboard PCA	5700A-7601	6-4. 6-16	6-4. 6-17
A4 Digital Motherboard PCA	5700A-7605	6-5. 6-18	6-5. 6-19
A5 Wideband Output PCA (Option -03)	5700A-7611	6-6. 6-20	6-6. 6-23
A6 Wideband Oscillator PCA (Option -03)	5700A-7610	6-7. 6-24	6-7. 6-27
A7 Current/High-Resolution Oscillator PCA ...	5700A-7621	6-8. 6-28	6-8. 6-30
A8 Switch Matrix PCA	5700A-7620	6-9. 6-31	6-9. 6-33
A9 Ohms Cal PCA	5700A-7631	6-10. 6-34	6-10. 6-36
A10 Ohms Main PCA	5700A-7630	6-11. 6-37	6-11. 6-38
A11 DAC PCA	5700A-7640	6-12. 6-39	6-12. 6-41
A11A1 DAC Filter SIP PCA	5700A-7643	6-13. 6-42	6-13. 6-42
A11A2 DAC Buffered Reference SIP PCA	5700A-7644	6-14. 6-43	6-14. 6-43
A12 Oscillator Control PCA	5700A-7650	6-15. 6-44	6-15. 6-46
A13 Oscillator Output PCA	5700A-7651	6-16. 6-47	6-16. 6-49
A13A1 Oscillator Wideband SMD PCA	5700A-7652	6-17. 6-50	6-17. 6-50
A14 High Voltage Control PCA	5700A-7661	6-18. 6-51	6-18. 6-53
A15 High Voltage/High Current PCA	5700A-7660	6-19. 6-54	6-19. 6-56
A16 Power Amplifier PCA	5700A-7670	6-20. 6-57	6-20. 6-60
A16A1 Power Amp Digital Control SIP PCA ..	5700A-7671	6-21. 6-61	6-21. 6-62
A17 Regulator/Guard Crossing PCA	5700A-7680	6-22. 6-63	6-22. 6-65
A18 Filter/PA Supply PCA	5700A-7690	6-23. 6-66	6-23. 6-68
A19 Digital Power Supply PCA	5700A-7604	6-24. 6-69	6-24. 6-71
A20 CPU PCA	5700A-7606	6-25. 6-72	6-25. 6-73
A21 Rear Panel PCA	5700A-7609	6-26. 6-74	6-26. 6-67

INTRODUCTION**6-1.**

This section contains an illustrated list of replaceable parts for the 5700A Calibrator. Parts are listed by assembly; alphabetized by reference designator. Each assembly is accompanied by an illustration showing the location of each part and its reference designator. The parts lists give the following information:

- Reference designator
- An indication if the part is subject to damage by static discharge
- Description
- Fluke stock number
- Manufacturer's supply code
- Manufacturer's part number or generic type
- Total quantity
- Any special notes (i.e., factory-selected part)

CAUTION

Parts with an asterisk * in the "S" column are subject to damage by static discharge.

HOW TO OBTAIN PARTS**6-2.**

Electrical components may be ordered directly from the manufacturer by using the manufacturer's part number, or from the John Fluke Mfg. Co., Inc. and its authorized representatives by using the part number under the heading **FLUKE STOCK NO.** A list of federal supply codes is provided at the end of this section.

To ensure prompt delivery of the correct part, include the following information when you place an order:

- Fluke stock number
- Description (as given under the **DESCRIPTION** heading)
- Reference designator
- Quantity
- Part number and revision level of the pca containing the part.

Parts price information is available from the John Fluke Mfg. Co., Inc. or its representatives.

MANUAL STATUS INFORMATION**6-3.**

The Manual Status Information table that precedes the parts lists defines the assembly revision levels that are documented in this manual. Revision levels are printed on the component side of each pca.

SPARE MODULES KIT**6-4.**

A kit containing a set of replacement modules (printed circuit assemblies), is available by ordering Fluke stock number 873328. For information about the Spare Modules Kit price and contents, contact a Fluke Technical Service Center.

LIST OF REPLACEABLE PARTS

MANUAL STATUS INFORMATION

REF OR OPTION NO.	ASSEMBLY NAME	FLUKE PART NO.	X = The PCA revision levels documented in this manual.																
			-	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
A1	Keyboard PCA	761049		X															
A2	Front Panel PCA	761031	X																
A3	Analog Motherboard PCA	761023		X															
A4	Digital Motherboard PCA	760942			X														
A5	Wideband Output PCA	761346			X														
A6	Wideband Oscillator PCA	761098			X														
A7	Current/High-Resolution Oscillator PCA	764613				X													
A8	Switch Matrix PCA	761106					X												
A9	Ohms Cal PCA	775395				X													
A10	Ohms Main PCA	761114		X															
A11	DAC PCA	761122	X																
A11A1	DAC Filter SIP PCA	761395	X																
A11A2	DAC Buffered Reference SIP PCA	764639	X																
A12	Oscillator Control PCA	761130				X													
A13	Oscillator Output PCA	761148				X													
A13A1	Oscillator Wideband PCA	761403	X																
A14	High Voltage Control PCA	775429				X													
A15	High Voltage/High Current PCA	761155			X														
A16	Power Amplifier PCA	761163				X													
A16A1	Power Amplifier Digital Control SIP PCA	775320	X																
A17	Regulator/Guard Crossing PCA	761171		X															
A18	Filter/PA Supply PCA	761189										X							
A19	Digital Power Supply PCA	761056					X												
A20	CPU PCA	761072				X													
A21	Rear Panel PCA	761221					X												

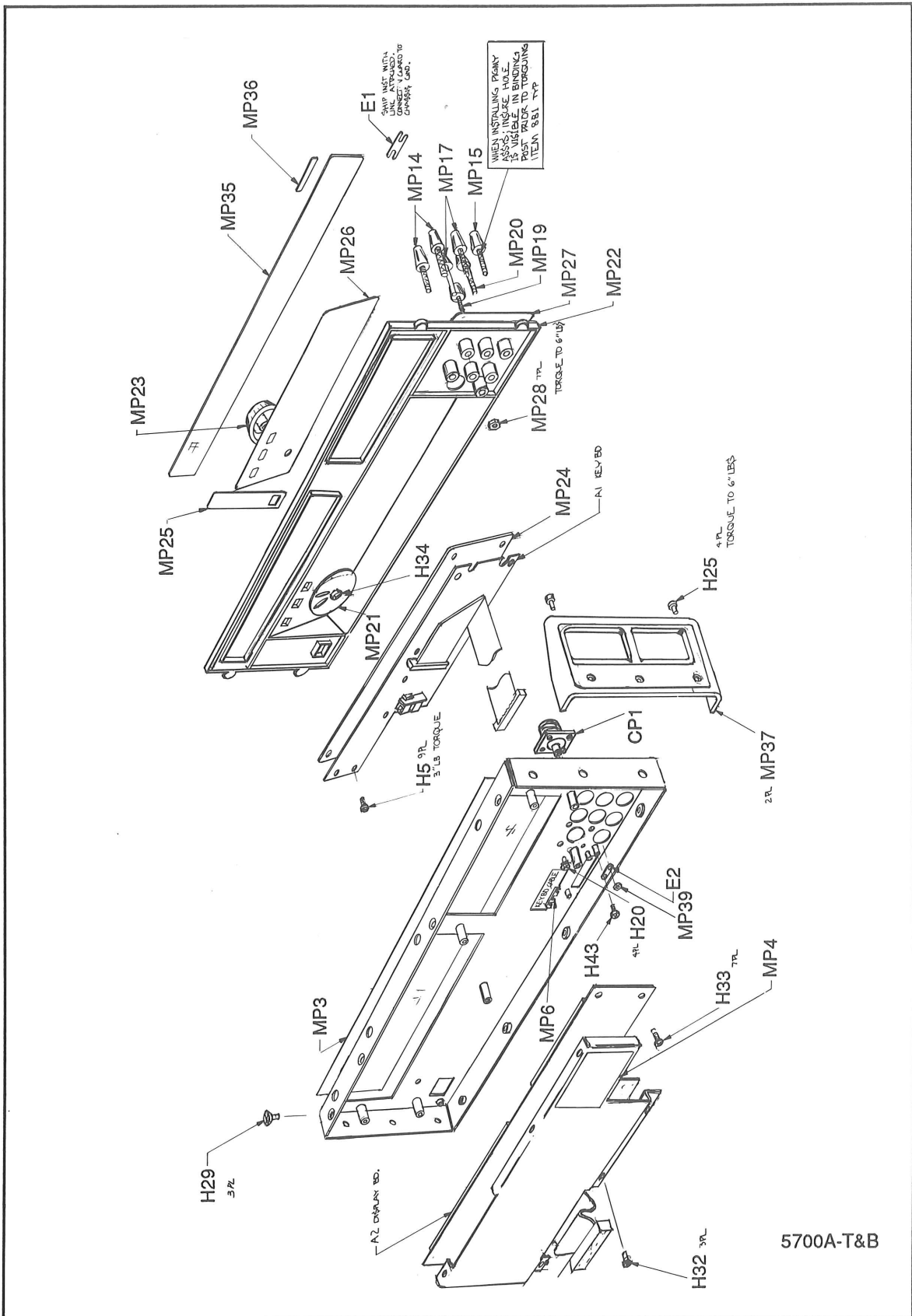
LIST OF REPLACEABLE PARTS

Table 6-1. 5700A Front Panel Final Assembly
(See Figure 6-1.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY CODE	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
A 1		*	KEYBOARD PCA	761049 89536 761049	1
A 2		*	FRONT PANEL PCA	761031 89536 761031	1
A 3		*	ANALOG MOTHERBOARD PCA	761023 89536 761023	1
A 4		*	DIGITAL MOTHERBOARD PCA	760942 89536 760942	1
A 7		*	CURRENT/HIGH-RES OSCILLATOR PCA	764613 89536 764613	1
A 8		*	SWITCH MATRIX PCAN	761106 89536 761106	1
A 9		*	OHMS CAL PCA	775395 89536 775395	1
A 10		*	OHMS MAIN PCA	761114 89536 761114	1
A 11		*	DAC PCA	761122 89536 761122	1
A 12		*	OSCILLATOR CONTROL PCA	761130 89536 761130	1
A 13		*	OSCILLATOR OUTPUT PCA	761148 89536 761148	1
A 14		*	HIGH VOLTAGE CONTROL PCA	775429 89536 775429	1
A 15		*	HIGH VOLTAGE/HIGH CURRENT PCA	761155 89536 761155	1
A 16		*	POWER AMPLIFIER PCA	761163 89536 761163	1
A 17		*	REGULATOR/GUARD CROSSING PCA	761171 89536 761171	1
A 18		*	FILTER/PA SUPPLY PCA	761189 89536 761189	1
A 19		*	DIGITAL POWER SUPPLY PCA	761056 89536 761056	1
A 20		*	CPU PCA	761072 89536 761072	1
A 21		*	REAR PANEL PCA	761221 89536 761221	1
CP 1			ADAPTOR, COAX, SMA (M), N (M)	516963 21845 SF1132-6002	1
E 1			JUMPER, LINK, BINDING POST	190728 83330 21171	1
E 2			GROUND STRIP, COPPER, 1.00X.375X.030	854836 86928 4805-38-3-T2	1
H 5- 13			SCREW, THD FORM, PH, P, STL, 5-20, .312	494641 COMMERCIAL	9
H 20- 23			SCREW, MACH, PH, P, STL, 4-40X0.187	129882 COMMERCIAL	4
H 25- 28			SCREW, CAP, SCKT, SS, 8-32, .375	837575 COMMERCIAL	4
H 29- 31			SCREW, MACH, FHU, P, SS, LOCKIN, 6-32, .250	769893 COMMERCIAL	3
H 32- 42			SCREW, MACH, PH, P, STL, 6-32X0.250	152140 COMMERCIAL	11
H 43			SCREW, MACH, PH, P, STL, 6-32X0.375	152165 COMMERCIAL	1
MP 1			PANEL, FRONT, SHEET METAL	761437 89536 761437	1
MP 2			SHIELD, DISPLAY PWB	764514 89536 764514	1
MP 3			LENS, SHIELD	760843 89536 760843	1
MP 4			DECAL, FRONT OUTPUT CABLE DIAGRAM	802967 89536 802967	1
MP 6			GROMMET, NYLON, NAT, .056X.150X.100X.155	285254 03296 G51P-A	1
MP 14- 16			BINDING POST-RED	850292 89536 850292	3
MP 17, 18			BINDING POST, BLACK	850297 89536 850297	2
MP 19			BINDING POST, GREEN	823229 89536 823229	1
MP 20			BINDING POST, BLUE	823203 89536 823203	1
MP 21			ENCODER WHEEL	764548 89536 764548	1
MP 22			FRONT PANEL, MOLDED	775627 89536 775627	1
MP 23			KNOB, ENCODER, GRAPHITE	786590 89536 786590	1
MP 24			KEYPAD, ELASTOMERIC	813469 89536 813469	1
MP 25			DECAL, POWER ON/OFF	775759 89536 775759	1
MP 26			DECAL, KEYPAD	775346 89536 775346	1
MP 27			DECAL, FRONT OUTPUT	775742 89536 775742	1
MP 28- 34, 39			NUT, #8 LOW THERMAL	850334 89536 850334	8
MP 35			LENS, DISPLAY	775718 89536 775718	1
MP 36			NAMEPLATE, ELECTROFORM 3"	802868 89536 802868	1
MP 37, 38			HANDLE, INSTRUMENT	791897 89536 791897	2
MP 999			RECORDING DISKETTE, MAGNETIC, 40 TRACKS	501197 89536 501197	1
TM 1			5700A GETTING STARTED MANUAL	791962 89536 791962	1
TM 2			5700A OPERATOR MANUAL	791905 89536 791905	1
TM 3			5700A SERVICE MANUAL	791996 89536 791996	1

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS



5700A-T&B

Figure 6-1. Front Panel Final Assembly

LIST OF REPLACEABLE PARTS

Table 6-1a. 5700A Chassis Final Assembly
(See Figure 6-1a.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS-----> S-----	DESCRIPTION-----	--NO--	-CODE- -OR GENERIC TYPE-----		-E-
B 1, 2	FAN/CONNECTOR ASSEMBLY	761213	89536 761213	2	
E 1	BINDING POST PART, HEAD, BRASS, 1/4-28	102889	89536 102889	1	
F 1	FUSE, .25X1.25, 1.25A, 250V, SLOW	851936	71400 MDL813FLC	1	
H 1	INSULATOR, ANALOG BOTTOM	775361	89536 775361	1	
H 2- 10	SCREW, MACH, PH, P, STL, 6-32, .500	152173	COMMERCIAL	9	
H 14- 20, 84,	SCREW, MACH, PH, P, STL, 6-32X0.750	114223	COMMERCIAL	14	
H 89- 94		114223			
H 21- 42, 87,	SCREW, MACH, PH, P, STL, 6-32X0.250	152140	COMMERCIAL	27	
H 88, 110-112		152140			
H 43, 44	SCREW, MACH, PH, P, STL, 6-32X0.375	152165	COMMERCIAL	2	
H 45- 56	SCREW, CAP, SCKT, SS, 8-32, .375	837575	COMMERCIAL	12	
H 57- 73	SCREW, MACH, FHU, P, SS, LOCKIN, 6-32, .250	769893	COMMERCIAL	17	
H 74- 81	SCREW, MACH, PH, P, STL, 6-32X1.250	159756	COMMERCIAL	8	
H 85, 86, 95,	WASHER, FLAT, STL, .149, .375, .031	110270	COMMERCIAL	4	
H 96		110270			
H 97, 98	WASHER, FLAT, STL, .160, .281, .010	111005	COMMERCIAL	8	
H 105-108	SCREW, MACH, TH, P, STL, 8-32X.250	853622	COMMERCIAL	4	
MP 1	COVER, DIGITAL	775635	89536 775635	1	
MP 2	BOTTOM COVER, ANALOG BOX	764530	89536 764530	1	
MP 3	TOP COVER, ANALOG BOX	764522	89536 764522	1	
MP 4	RELAY BRACKET	761015	89536 761015	1	
MP 5	TOP COVER, INSTRUMENT	775817	89536 775817	1	
MP 6	BOTTOM COVER, INSTRUMENT	775825	89536 775825	1	
MP 7	SHROUD, CPU CABLE	813519	89536 813519	1	
MP 8, 24- 30	NUT, #8 LOW THERMAL	850334	89536 850334	8	
MP 11	POWER BUTON, ON/OFF	775338	89536 775338	1	
MP 12- 15	BOTTOM FOOT, MOLDED	775791	89536 775791	4	
MP 18, 19	SIDE TRIM EXTRUSION, MODIFIED	684555	89536 684555	2	
MP 20, 21	ADHESIVE SIDE TRIM	698316	89536 698316	2	
MP 22, 113	DECAL, CAUTION 240V	760926	89536 760926	2	
MP 23	DECAL, CAUTION 900V	760934	89536 760934	1	
MP 31- 44, 50-	WASHER, LOW THERMAL #8	859939	89536 859939	20	
MP 53, 131, 132		859939			
MP 45, 46	SIDE TRIM- INSERT MODIFIED	699082	89536 699082	2	
MP 47	INSULATOR, DIGITAL MOTHERBOARD	761247	89536 761247	1	
MP 54, 55	AIDE, PCB PULL	541730	89536 541730	2	
MP 106, 107	WASHER, FLAT, STL, .191, .289, .010	111047	COMMERCIAL	2	
MP 108-110	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213 SJ-5003	3	
MP 114	GROMMET, SLOT, RUBBER, .250, .437	853291	73734 113006	1	
MP 999	TRANSFORMER/MODULE ASSY	813527	89536 813527	1	
W 1	CABLE, WIDEBAND TO FRONT PANEL	802785	89536 802785	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

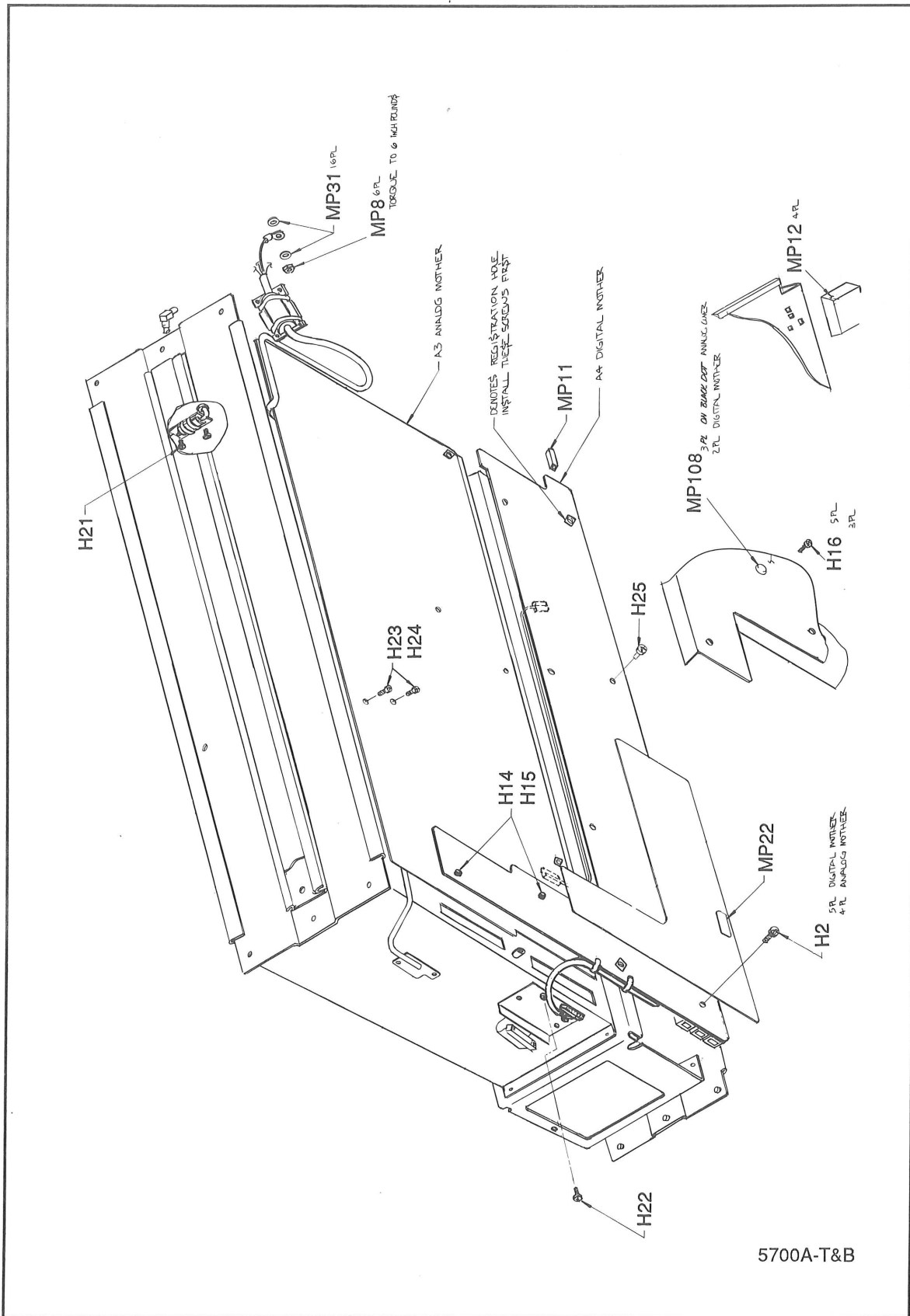


Figure 6-1a. Chassis Final Assembly

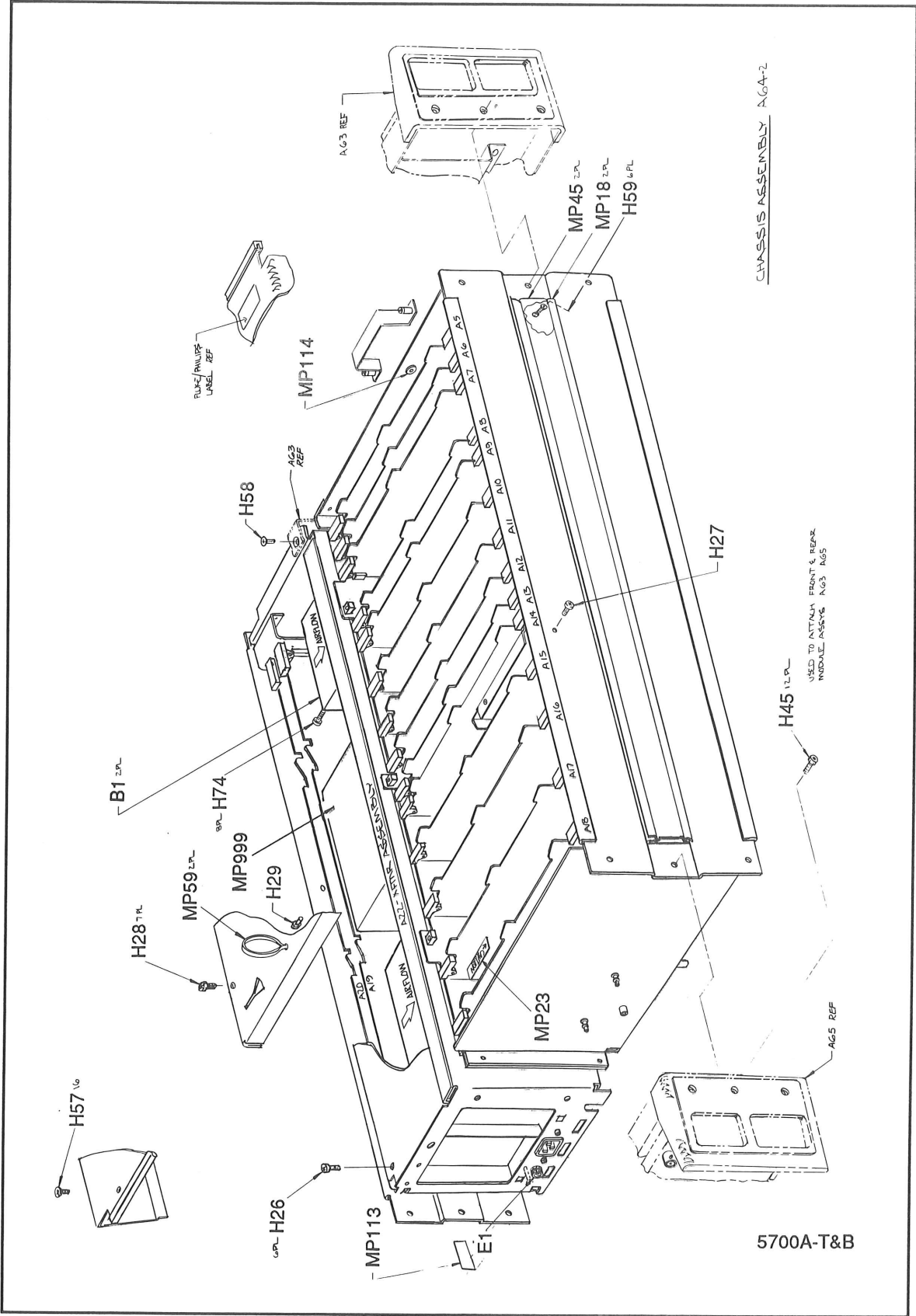


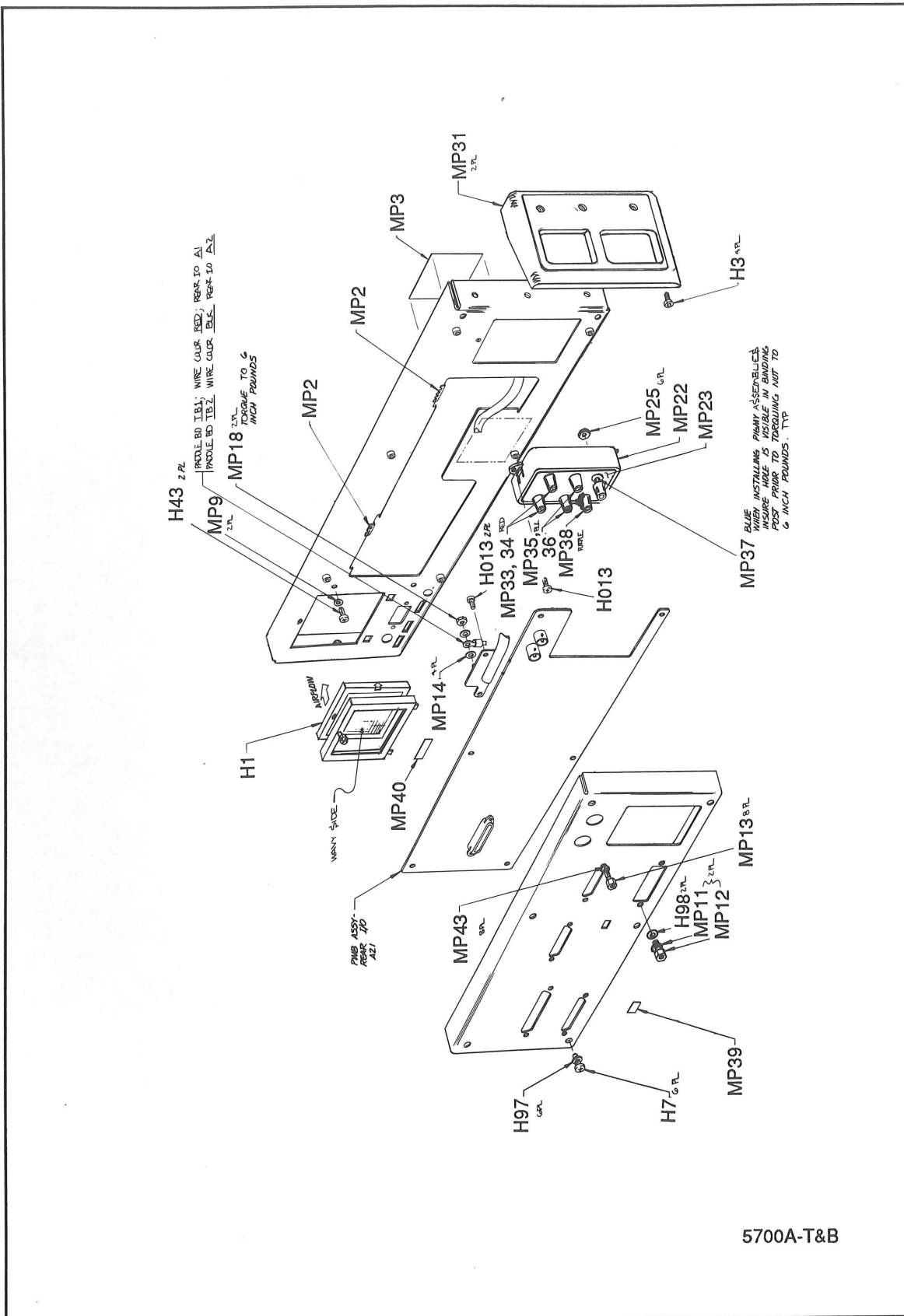
Figure 6-1a. Chassis Final Assembly (cont)

LIST OF REPLACEABLE PARTS

Table 6-1b. 5700A Rear Panel Final Assembly
(See Figure 6-1b.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
F 1	851936	71400	MDL-8-1-3-FLC	1	
H 1	813493	89536	813493	1	
H 3- 6	837575	COMMERCIAL		4	
H 7- 12	114223	COMMERCIAL		6	
H 13	152140	COMMERCIAL		1	
MP 1	764464	89536	764464	1	
MP 2	285254	03296	G51P-A	1	
MP 3	802975	89536	802975	1	
MP 8, 9	111005	COMMERCIAL		2	
MP 11, 12	681940	02660	57-1912-01	2	
MP 13- 20	448092	08718	D-20418-2	8	
MP 21	775809	89536	775809	1	
MP 22	775783	89536	775783	1	
MP 23	813576	89536	813576	1	
MP 24	775734	89536	775734	1	
MP 25- 30	850334	89536	850334	6	
MP 31, 32	791897	89536	791897	2	
MP 33, 34	850292	89536	850292	2	
MP 35, 36	850297	89536	850297	2	
MP 37	823203	89536	823203	1	
MP 38	850321	89536	850321	1	
MP 39	802306	89536	802306	1	
MP 40	844712	89536	844712	3	
MP 43- 50	853296	COMMERCIAL		8	
MP 51- 54	760892	89536	760892	4	
MP 55, 56	760876	89536	760876	2	
W 1	284174	70903	17239	1	
W 2	775445	89536	775445	1	

An * in 'S' column indicates a static-sensitive part.



5700A-T&B

Figure 6-1b. Rear Panel Final Assembly

LIST OF REPLACEABLE PARTS

Table 6-2. A1 Keyboard PCA
(See Figure 6-2.)

REFERENCE DESIGNATOR			FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N 0 T E
-A>-NUMERICS----->	S-----	DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
CR 1- 4		LED, GREEN, SUBMINIATURE, 4 MCD	822247	S4238	MBG2262F	4	
DT 1, 2	*	ISOLATOR, OPTO, OPTICAL SWITCH, INFRARED	523530	09214	H22A1	2	
W 1		CABLE, KEYBOARD/REAR PANEL	802710	89536	802710	1	

An * in 'S' column indicates a static-sensitive part.

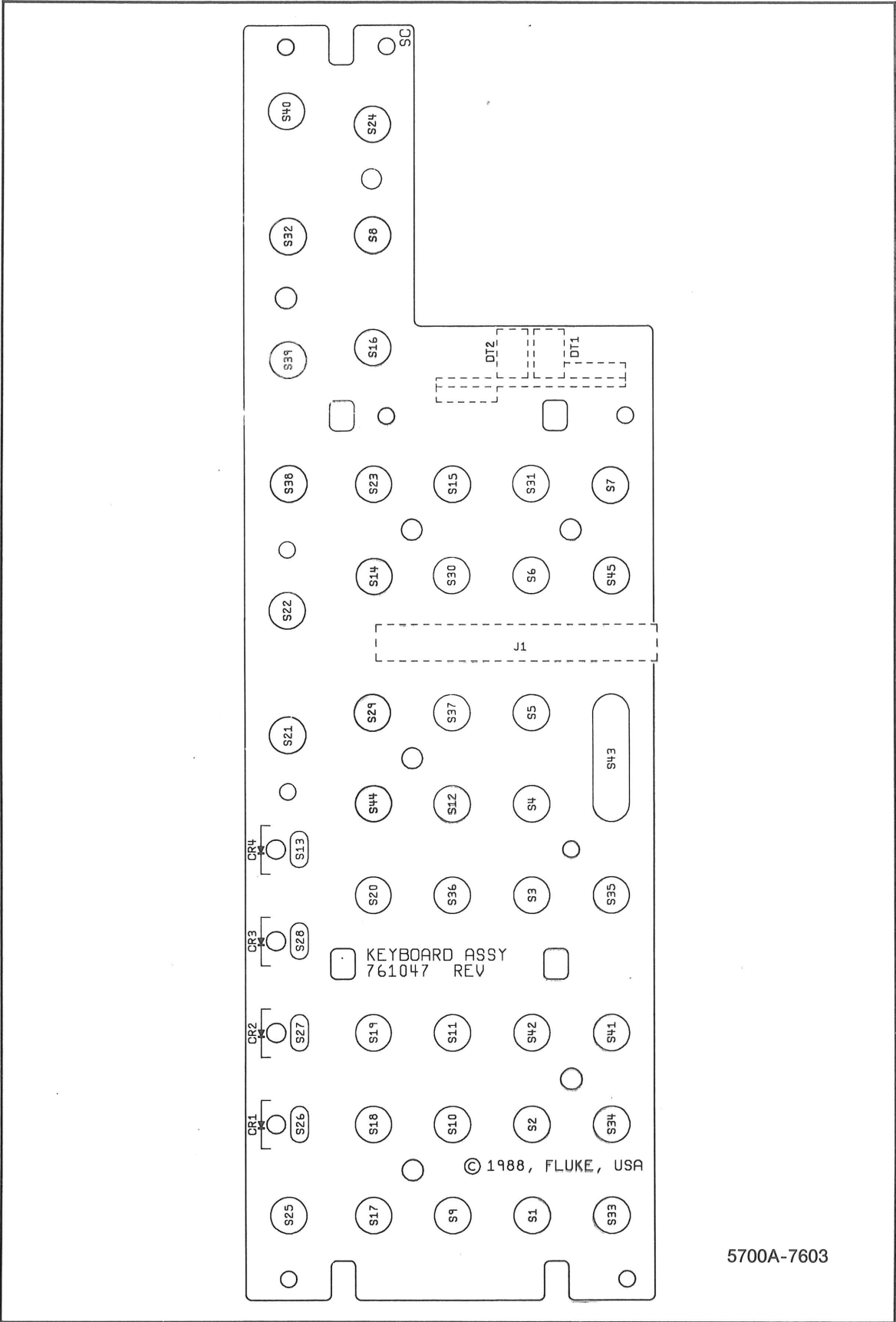


Figure 6-2. A1 Keyboard PCA

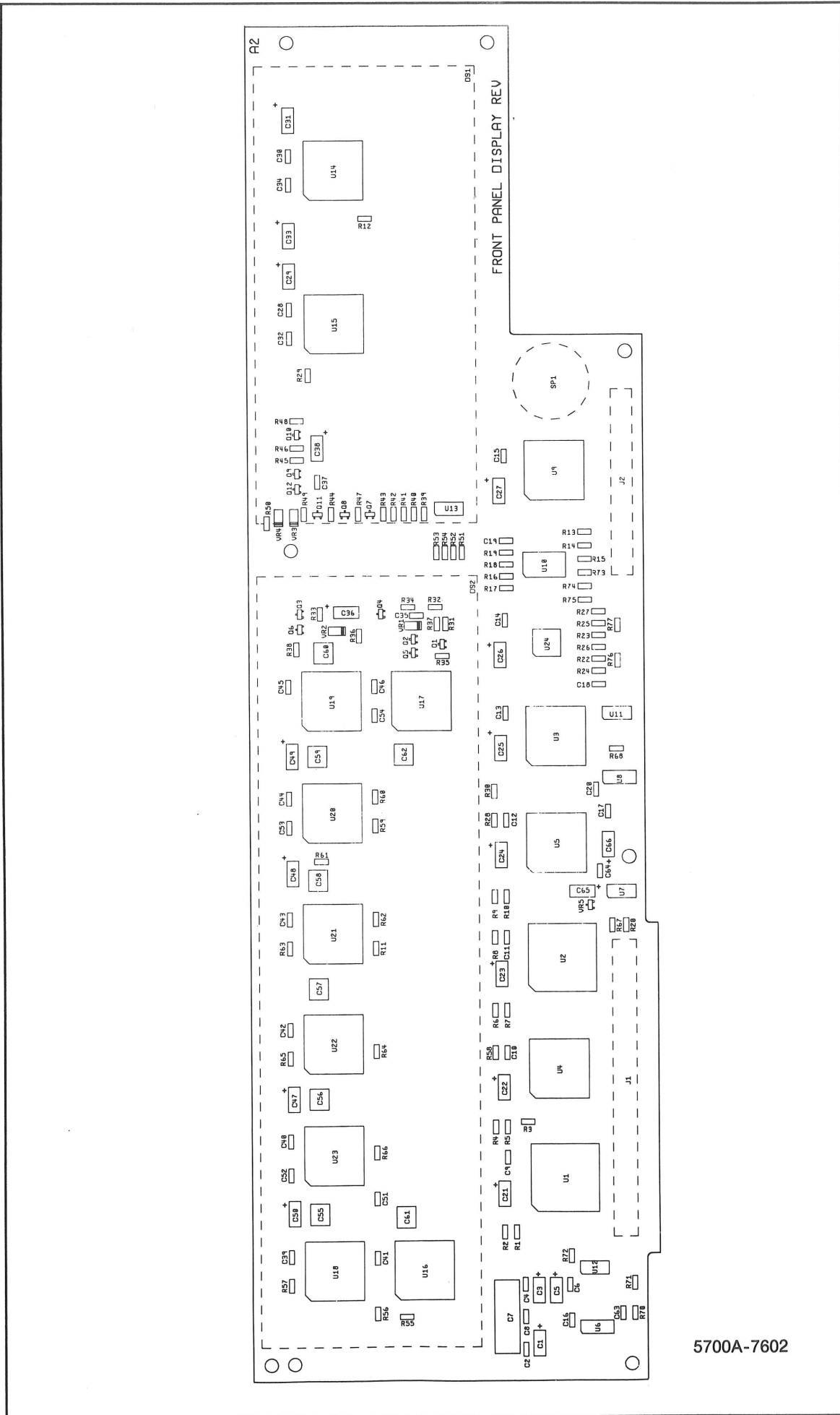
5700A-7603

LIST OF REPLACEABLE PARTS

Table 6-3. A2 Front Panel PCA
(See Figure 6-3.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E-
-A>-NUMERIC-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	
C 1	746990	56289	195D476X0010H2B	1	
C 2, 4, 9-	747287	04222	12063C104KAT060R	27	
C 20, 28, 30,	747287				
C 35, 37, 39-	747287				
C 46, 64	747287				
C 3, 21- 27,	772491	56289	195D106X0025G2B	17	
C 29, 31, 36,	772491				
C 38, 47- 50,	772491				
C 66	772491				
C 5, 33, 65	780478	56289	195D155X0050F2B	3	
C 6, 8, 32,	742981	04222	12061C103MA1050B	8	
C 34, 51- 54	742981				
C 7	820738	62643	KME100T10RM6X16LL	1	
C 55- 62	820712	04222	22251E684MAT050R	8	
C 63	740571	04222	12065A101KAT050R	1	
DS 1	806976	08W21	CP2215	1	
DS 2	832543	89536	832543	1	
J 2	807453	59730	501-4027ES	1	
MP 1- 10	543488	28213	SJ5008	10	
Q 1- 4, 7-	742023	73445	BCX17TRL	8	
Q 10	742023				
Q 5, 6, 11,	742031	73445	BCX19TRL	4	
Q 12	742031				
R 1, 3, 5,	740522	59124	RM73B2BJ472B	22	
R 6, 8, 10-	740522				
R 12, 20, 28-	740522				
R 30, 55- 59,	740522				
R 61, 63, 65,	740522				
R 72, 76	740522				
R 2, 4, 7,	746008	09969	CRCW1206112JB02	8	
R 9, 40, 41,	746008				
R 52, 53	746008				
R 13- 15, 24,	746677	09969	CRC11206393JB02	9	
R 25, 70, 73-	746677				
R 75	746677				
R 16- 19	772780	91637	CRCW1206151FB02	4	
R 22, 26, 37-	746024	09969	CRCW1206682JB02	10	
R 39, 42, 49-	746024				
R 51, 54	746024				
R 23, 27, 71	811794	59124	RM73B2BJ8202B	3	
R 31- 34, 43-	745992	59124	RM73B2BJ102B	12	
R 46, 60, 62,	745992				
R 64, 66	745992				
R 35, 36, 68	745984	09969	CRCW1206621JB02	3	
R 47, 48	801415	91637	CRCW1206453FB02	2	
R 67	746339	59124	RM73B2BJ201B	1	
R 77	756338	59124	RM73B2BJ910B	1	
SP 1	602490	51406	PKM24-4A1	1	
U 1, 2	806653	34335	AM2130-10JC	2	
U 3	838607	89536	838607	1	
U 4	838615	89536	838615	1	
U 5	845375	89536	845375	1	
U 6	831081	04713	MC74HC4060DR1	1	
U 7	831271	18324	NE522DT	1	
U 8	831636	18324	74HC4040DT	1	
U 9	845383	89536	845383	1	
U 10	742726	01295	SN74LS373DR	1	
U 11	742585	18324	N74HCT040	1	
U 12	782995	01295	SN74HC74DR	1	
U 13	741249	18324	N7406DT	1	
U 14- 23	741231	56289	UCN5818EP-1	10	
U 24	837369	89536	837369	1	
VR 1, 2	742015	04713	MLL4703T1	2	
VR 3, 4	806927	04713	MLL4736T1	2	
VR 5	837195	04713	MMB25235BT1	1	
W 1	791640	89536	791640	1	

An * in 'S' column indicates a static-sensitive part.



5700A-7602

Figure 6-3. A2 Front Panel PCA

LIST OF REPLACEABLE PARTS

Table 6-4. A3 Analog Motherboard PCA
(Figure 6-4.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERIC->	-NO--	-CODE-	-OR GENERIC TYPE----	-E-	
S-----DESCRIPTION-----					
C 1	649913	60935	185-2/0.1/K/0050/RAB	1	
C 2	697458	89536	697458	1	
C 3	697417	56289	199D105X0035AA1	1	
C 4	807644	56289	199D475X0025BA1	1	
C 5	697409	60935	185-2/0.47K0050RAB	1	
CR 1, 2	* 203323	07910	1N4448	2	
H 1, 2	152140	COMMERCIAL		2	
H 3- 5	172080	06383	SST-1M	3	
J 71	822148	28480	HFBR-2522	1	
J 72	822155	28480	HFBR-1521/1522	1	
J 101, 111, 201,	807818	28213	7364-60D3TB	26	
J 202, 211, 212,	807818				
J 301, 302, 311,	807818				
J 312, 401, 402,	807818				
J 501, 502, 511,	807818				
J 512, 601, 602,	807818				
J 611, 612, 701,	807818				
J 702, 801, 802,	807818				
J 901, 902	807818				
J 811, 812, 821,	851183	27264	26-01-1108	4	
J 822	851183				
K 1- 3	783746	77342	R10-E6297-3	3	
K 4, 5, 9,	806950	71707	7003-5065	4	
K 10	806950				
K 6- 8, 11	733063	51984	MR602-5SR	4	
K 12	845164	71707	7004-5071	1	
K 13	769307	61529	DS2EML2DC5VH284	1	
MP 3- 54	838482	COMMERCIAL		52	
MP 55, 56	414508	24347	KFE-632-12-ZC	2	
MP 57- 61	820613	24347	KSSA-156-8	5	
MP 62- 66	854273	06915	HUC-2	5	
MP 101-128	832733	28213	3435-1	28	
R 1	631374	59124	CF1-4750JB	1	
R 2	441683	59124	CF1-4910J	1	
RV 1	500777	89536	500777	1	
W 1	802835	89536	802835	1	
W 2	859926	89536	859926	1	
W 3	859934	89536	859934	1	
W 8	802710	89536	802710	1	
W 11	802744	89536	802744	1	
XK 1- 3	441964	77342	27E606	3	

An * in 'S' column indicates a static-sensitive part.

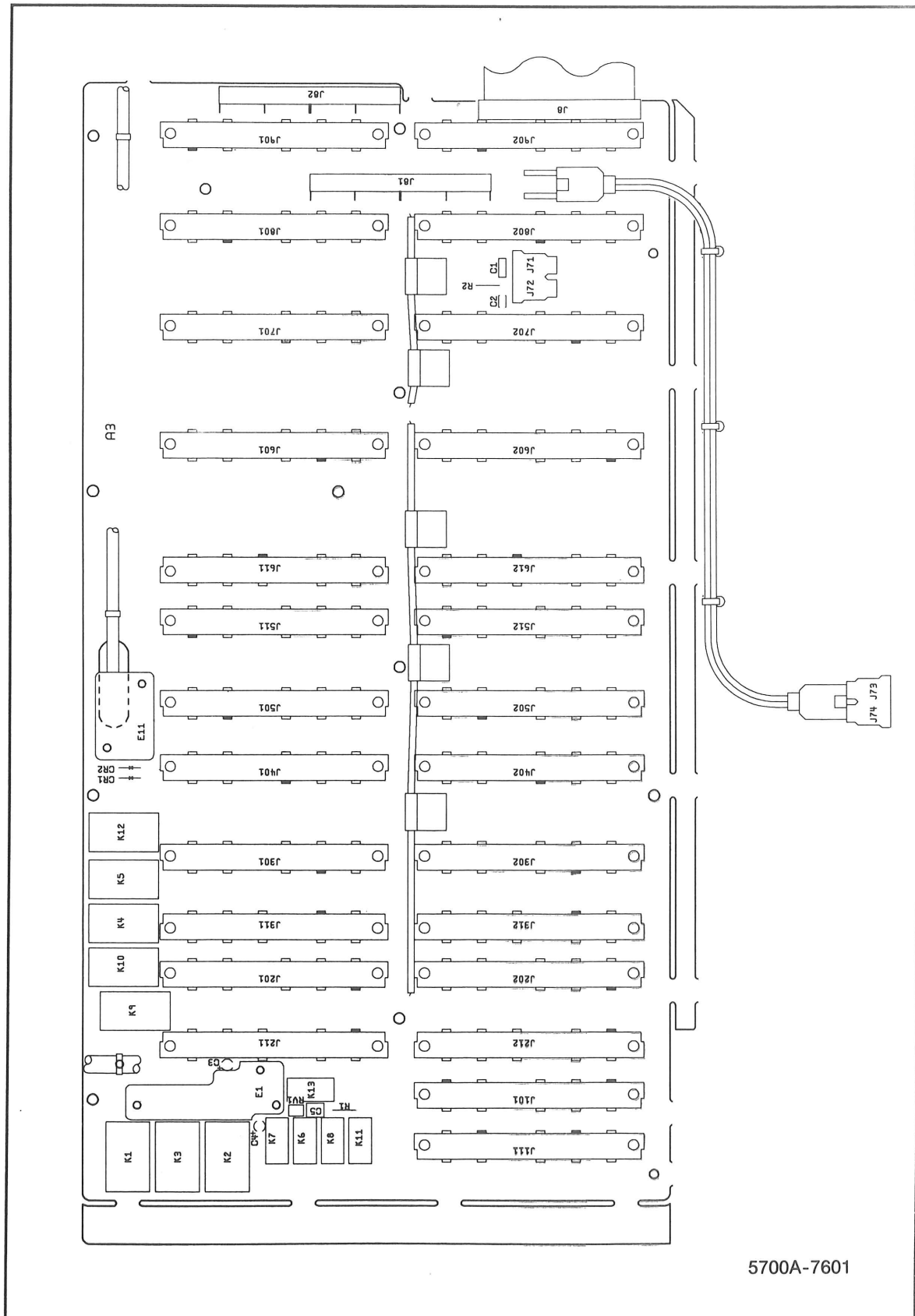


Figure 6-4. A3 Analog Motherboard PCA

LIST OF REPLACEABLE PARTS

Table 6-5. A4 Digital Motherboard PCA
(See Figure 6-5.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	-NO--	-CODE-	-OR GENERIC TYPE-----	-E-	
C 1, 4	816512	56289	199D106X9035DA1	2	
C 2	697458	89536	697458	1	
C 3	649913	60935	185-2/0.1/K/0050/RAB	1	
C 5	542233	60935	158.00-0.10UF-250VAC	1	
C 6	816710	04222	SR211A682JAA	1	
CR 3, 4	698555	04713	IN4002RL	2	
F 1	851931	71400	MDX-2 1/2	1	
F 2	851936	71400	MDL-2 1/2	1	
H 8- 14	172080	06383	SST-1M	7	
H 19, 20	854034		COMMERCIAL	2	
H 21, 22	306415		COMMERCIAL	2	
J 11	831354	00779	1-640388-2	1	
J 13	446724	00779	1-640388-0	1	
J 14	831370	00779	1-640388-6	1	
J 15	831362	00779	1-640388-4	1	
J 16	385435	00779	1-640388-8	1	
J 21	853437	00779	533205-2	1	
J 31	844717	27264	26-48-1056	1	
J 41	853853	88245	96S-6033-0531-2-C	1	
J 51, 52	845334	00779	640456-3	2	
J 61, 62	807818	28213	7364-60D3TB	2	
J 73	822155	28480	HFBR-1521/1522	1	
J 74	822148	28480	HFBR-2522	1	
J 91	851696	59730	501-3437ES	1	
MP 1	602763	61935	FAU031.3573	1	
MP 2	460238	61935	031.1666	1	
MP 3- 12	838482		COMMERCIAL	10	
MP 13, 14	838300	06915	MWSSEB-1-01A	2	
MP 16	764621	89536	764621	1	
MP 17, 18, 20	837864	55566	3076C177B16MODL=.093	3	
MP 19	836460	72884	SPUR-S-001	1	
MP 21	836478	72884	SWWR-S-001	1	
MP 22, 23	358341	28213	SJ-5003	2	
P 81, 82	831222	53222	SEP10825-02	2	
R 1	441683	80031	1-4-5P91E	1	
R 2, 3	229542	05347	CS3N1012ROF	2	
R 4	414532	59124	CF1-4680J	1	
RV 1	500777	89536	500777	1	
RV 2	519355	09214	V275LA15AS14K275	1	
SW 1	831826	72884	SDDS-S-003	1	
SW 2- 4	817353	10389	18-514-0003W/WHITEDOT	3	
W 15	802769	89536	802769	1	
W 90	802728	89536	802728	1	

An * in 'S' column indicates a static-sensitive part.

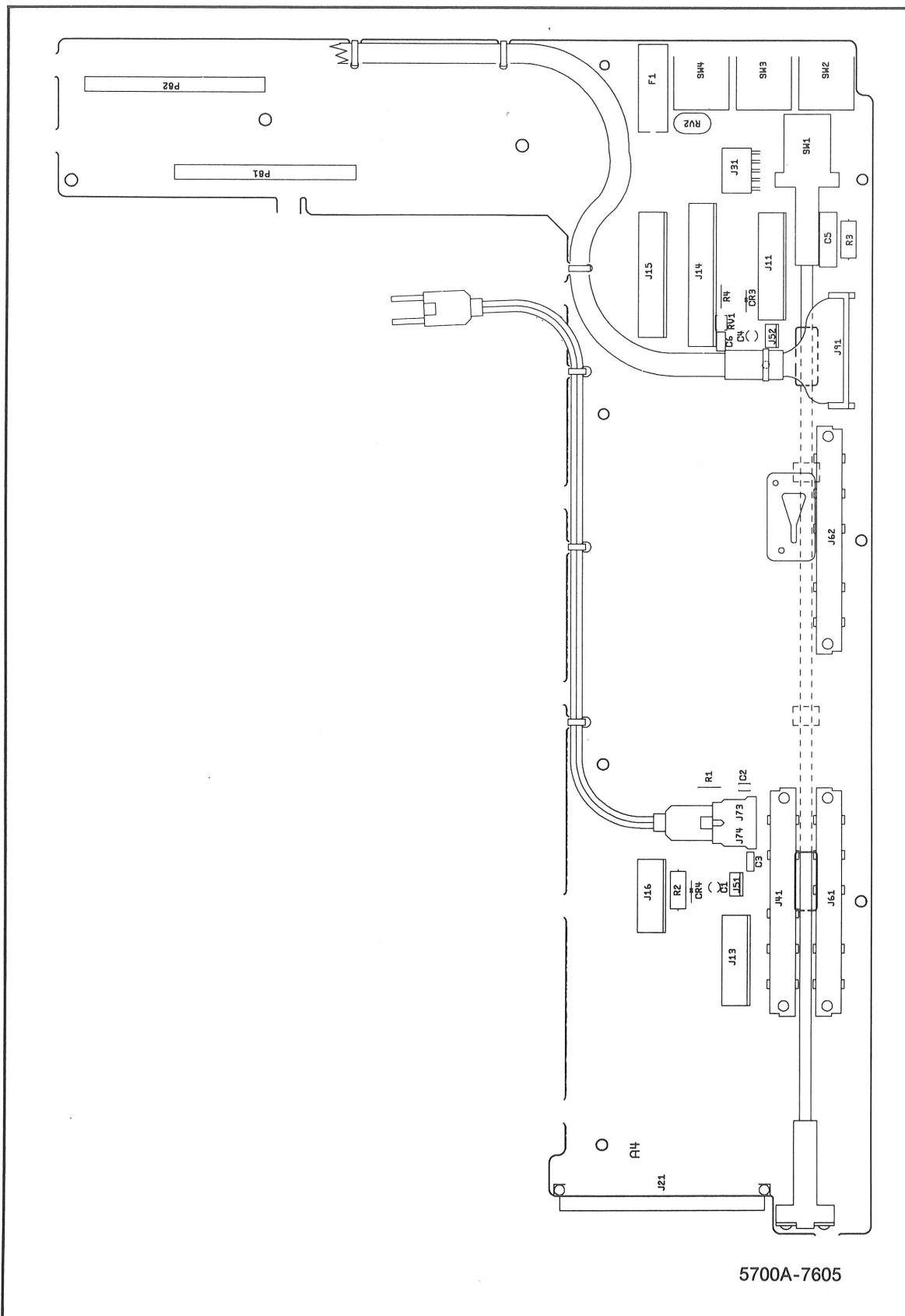


Figure 6-5. A4 Digital Motherboard PCA

LIST OF REPLACEABLE PARTS

Table 6-6. A5 Wideband Output PCA, Option -03
(See Figure 6-6.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
C 1	721837	51406	RPE122COG479K50V	1	
C 2	512871	04222	SR151A220GAT	1	
C 3	820548	60935	185-2/473K0050RAB	1	
C 4, 11- 13,	831495	04222	SR225A101JAT	5	
C 66	831495				
C 5	733071	04222	SR215A471KAT	1	
C 6, 52, 53,	715276	60935	185-2/333K0050RAB	4	
C 79	715276				
C 7, 10, 15,	697409	84411	J1320R47MF10PCT50V	5	
C 23, 81	697409				
C 8, 9, 25,	649913	60935	185-2/0.1K0050RAB	35	
C 27- 31, 33-	649913				
C 37, 45- 51,	649913				
C 55- 63, 72-	649913				
C 76, 80	649913				
C 14	747519	60935	185.22/J0050RCB	1	
C 16- 18, 21,	807644	56289	199D475X0025BA1	12	
C 26, 32, 39-	807644				
C 44	807644				
C 19, 77, 78	720938	60935	185/.001K0050RAB	3	
C 20, 22	714543	04222	SR215A330JAT	2	
C 38	512954	51406	RPE110COG5R6C1	1	
C 64, 65	733089	60935	185/1.00K0050RGB	2	
C 67	715292	04222	SR215A330GAT	1	
C 68	830638	04222	SR211A180GAT	1	
C 82	643304	62643	LR16VB470M6X0LLV	1	
C 83	658898	04222	SR215A271JAT	1	
CP 1	528802	05276	1269	1	
CP 2	756775	91836	KN-9409	1	
CR 1- 4, 6,	659516	03508	1N4448	6	
CR 7	659516				
CR 5	852116	17856	J9010-TR3	1	
E 3	757294	00779	850108-1	1	
H 7- 9	152173		COMMERCIAL	4	
H 10- 19	152207	07047	10123-DAP	10	
J 1, 2	353243	98291	051-053-0000-220	2	
J 3	643916	22526	65500-102	1	
K 1, 11	715078	61529	DS4EML2DC5VCH239	2	
K 2, 3, 9,	769307	61529	DS2EML2DC5VH284	5	
K 10, 12	769307				
K 4- 8	806810	11532	432-7478	5	
L 1- 6, 18	320911	89536	320911	7	
L 19	249102	24759	MR-100	1	
L 20- 22	147835	24759	MR-220	3	
L 23- 25	321182	02114	56-590-65-4B	3	
M 2	764498	89536	764498	1	
M 3	775643	89536	775643	1	
M 4	775650	89536	775650	1	
M 5	775668	89536	775668	1	
MP 1	853429	0G2V8	6701.17.A	1	
MP 2, 3	838458		COMMERCIAL	2	
MP 4, 5	494724	32559	CP-66	2	
MP 6, 25- 34	152140		COMMERCIAL	11	
MP 10- 14	803247	89536	803247	5	
MP 15- 24	418384	13103	2225B	10	
P 111	807800	28213	7264-50D2TB	1	
Q 1	698241	04713	2N4401RLRA2	1	
Q 2, 3	394122	18324	SD210EE	2	
Q 4- 6	659417	04713	BFR96	3	
Q 7, 8	800201	04713	2N5583	2	
Q 9, 10, 14-	806588	01281	LT1839	5	
Q 16	806588				
Q 11- 13	806596	04713	LT5839	3	
Q 17	816314	17856	J2864TR	1	
Q 18	782565	59640	VN0104N3	1	
R 1	320390	91637	CMF558660F T-1	1	
R 2	245340	91637	CMF552000F T-1	1	
R 3	714287	59124	MF50CVT4123F	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-6. A5 Wideband Output PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERIC	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
R 7, 8	RES, MF, 698K, +-1%, 0.125W, 100PPM	757252	59124	MF50DVT6983F	2	
R 9, 24, 27,	RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203JB	5	
R 42, 102		697110				
R 10	RES, CF, 3M, +-5%, 0.25W	746172	59124	CF1-4VT305J	1	
R 11	RES, MF, 20.5K, +-1%, 0.125W, 100PPM	655233	59124	MF50DVT2052F	1	
R 12, 111-113	RES, CF, 2K, +-5%, 0.25W	810457	59124	CF1-4VT102J	4	
R 13	RES, MF, 14.3K, +-1%, 0.125W, 100PPM	721803	59124	MF50DVT1432F	1	
R 14, 28, 114	RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	59124	MF50DVT1002F	3	
R 15, 38	RES, CF, 3K, +-5%, 0.25W	810366	59124	CF1-4VT102J	2	
R 16	RES, CF, 620, +-5%, 0.25W	810408	59124	CF1-4VT621J	1	
R 17	RES, MF, 866, +-1%, 0.125W, 50PPM	816603	59124	MF50CVT8660F	1	
R 18	RES, MF, 200, +-1%, 0.125W, 100PPM	820282	59124	MF50DVT2000F	1	
R 19	RES, CF, 12K, +-5%, 0.25W	757799	59124	CF1-4VT123J	1	
R 20, 31	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 21, 104	RES, MF, 10.5K, +-1%, 0.125W, 100PPM	816611	59124	MF50DVT1052F	2	
R 22, 35	RES, CF, 9.1K, +-5%, 0.25W	706663	59124	CF1-4VT912J	2	
R 23	RES, CF, 1M, +-5%, 0.25W	649970	59124	CF1-4VT105J	1	
R 25	RES, MF, 205K, +-1%, 0.125W, 100PPM	706234	59124	MF50DVT2053F	1	
R 26	RES, CF, 13K, +-5%, 0.25W	821777	59124	CF1-4VT433J	1	
R 29, 121	RES, MF, 56.2K, +-1%, 0.125W, 100PPM	706242	59124	MF50DVT5622F	2	
R 30, 103, 105,	RES, CF, 150K, +-5%, 0.25W	758219	59124	CF1-4VT154J	4	
R 106		758219				
R 32, 63	RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	2	
R 33	RES, CF, 22K, +-5%, 0.25W	747535	59124	CF1-4VT223J	1	
R 34	RES, CF, 24K, +-5%, 0.25W	697599	59124	CF1-4VT243J	1	
R 36, 40, 45,	RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	4	
R 62		780585				
R 37	RES, MF, 210, +-1%, 0.125W, 100PPM	327999	91637	CMF552100F T-1	1	
R 39	RES, CF, 16K, +-5%, 0.25W	714303	59124	CF1-4VT163J	1	
R 41	RES, CF, 180K, +-5%, 0.25W	573626	59124	CF1-4181J	1	
R 43, 44	RES, MF, 100, +-0.1%, 0.125W, 25PPM	357400	91637	CMF551000B T-9	2	
R 46	RES, MF, 1.74K, +-1%, 0.125W, 100PPM	344358	91637	CMF551741F T-1	1	
R 47	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF551001F T-1	1	
R 48, 49, 51,	RES, CF, 51, +-5%, 0.25W	572990	59124	CF1-4510JB	13	
R 55, 61, 65,		572990				
R 71, 76, 77,		572990				
R 84, 85, 90,		572990				
R 91		572990				
R 50	RES, MF, 499, +-1%, 0.125W, 100PPM	816462	91637	CMF554990F T-1	1	
R 52	RES, MF, 150, +-1%, 0.125W, 100PPM	719674	91637	CMF551500F T-1	1	
R 53	RES, MF, 402, +-1%, 0.125W, 100PPM	720201	91637	CMF554020F T-1	1	
R 54	RES, MF, 576, +-1%, 0.125W, 100PPM	294843	91637	CMF555760F T-1	1	
R 56, 57	RES, MF, 80.6, +-1%, 0.5W, 100PPM	158790	91637	CMF6580R6F T-1	2	
R 58, 59	RES, MF, 75, +-1%, 0.5W, 100PPM	150870	91637	CMF6575R0F T-1	2	
R 64	RES, MF, 806, +-1%, 0.6W, 50PPM	851944	91637	CPF-18060F T-2	1	
R 66	RES, MF, 49.9, +-1%, 0.125W, 100PPM	720318	59124	CMF5549R9F T-1	1	
R 67, 68	RES, MF, 21, +-1%, 0.125W, 100PPM	296632	91637	CMF5521R0F T-1	2	
R 69, 70	RES, MF, 249, +-1%, 0.5W, 100PPM	241281	91637	CMF652490F T-1	2	
R 72, 73	RES, MF, 1.15K, +-1%, 0.5W, 100PPM	155010	91637	CMF651151F T-1	2	
R 74	RES, CF, 20K, +-5%, 0.25W	573444	59124	CF1-4203J	1	
R 75	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476	91637	CMF551002F T-1	1	
R 78, 79, 86-	RES, MF, 12.7, +-1%, 0.125W, 100PPM	441766	91637	CMF5512R7F T-1	6	
R 89		441766				
R 80- 83	RES, MF, 909, +-1%, 0.5W, 100PPM	178053	91637	CMF659090F T-1	4	
R 92- 95	RES, MF, 75, +-1%, 0.125W, 100PPM	306027	91637	CMF5575R0F T-1	4	
R 96- 99	RES, MF, 187, +-0.1%, 0.5W, 25PPM	807750	91637	CMF651870B T-9	4	
R 100	RES, MF, 1.21K, +-1%, 0.125W, 100PPM	719559	91637	CMF551211F T-1	1	
R 101	RES, MF, 1.43K, +-1%, 0.125W, 25PPM	447995	91637	CMF551431F T-9	1	
R 107	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	1	
R 108	RES, MF, 49.9, +-1%, 0.125W, 100PPM	820266	59124	MF50DVT4992F	1	
R 109	RES, MF, 2.15K, +-1%, 0.125W, 50PPM	347039	91637	CMF552151F T-1	1	
R 110	RES, MF, 1K, +-0.1%, 0.125W, 25PPM	340380	91637	CMF551001B T-9	1	
R 115	RES, CF, 200K, +-5%, 0.25W	573634	59124	CF1-4204JB	1	
R 116	RES, MF, 2K, +-1%, 0.125W, 100PPM	816629	59124	MF50DVT2001F	1	
R 117	RES, MF, 1.69K, +-1%, 0.125W, 100PPM	321414	91637	CMF551691F T-1	1	
R 118	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4VT152J	1	
R 119	RES, MF, 8.06K, +-1%, 0.125W, 100PPM	817619	59124	MF50DVT8061F	1	
R 120	RES, MF, 124, +-1%, 0.125W, 100PPM	343905	91637	CMF551240F T-1	1	
R 122	RES, MF, 4.99K, +-1%, 0.125W, 100PPM	721548	59124	MF55D4991F	1	
R 123-128	RES, CF, 10, +-5%, 0.25W	807669	59124	CF1-4VT100J	6	
TP 1- 19	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	19	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-6. A5 Wideband Output PCA, Option -03 (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS-----> S-----	DESCRIPTION-----	--NO--	-OR CODE-	-OR GENERIC TYPE-----	-E-
U 1	* RMS CONVERTER TESTED 400 OHM-B GRADE	767707	89536	767707	1
U 2, 11, 12	* IC, OP AMP, DUAL, PRECISION, 8-PIN DIP	783696	64155	LT1013CN8	3
U 3	* IC, ARRAY, 5 TRANS, NPN, 3 ISO, 2 DIFF CON	248906	04713	MC3346P	1
U 4	* IC, COMPARATOR, DUAL, LO-PWR, 8 PIN DIP	478354	12040	LM393N	1
U 5	* IC, OP AMP, LO-OFFSET VOLTAGE, LO-NOISE	605980	06665	OP-07DP	1
U 6	* IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	1
U 7	* IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1
U 8	* IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1
U 9, 10	* IC, BIMOS, 4 CHNL HI-VOLT DRVR W/LATCH	820514	56289	UCN-5800A	2
VR 1	* ZENER, UNCOMP, 9.1V, 5%, 5MA, 0.350W	853788	04713	1N5239BRR1	1
VR 2	* ZENER, COMP, 6.4V, 2%, 2 PPM TC, 1.0MA	419036	04713	S2G20287	1
VR 3	* ZENER, UNCOMP, 16.0V, 5%, 15.5MA, 1.0W	313221	04713	1N4745ARL	1
VR 4	* ZENER, UNCOMP, 5.6V, 5%, 20MA, 0.5W	820464	04713	1N5232BRR1	1
W 1	CABLE, WIDEBAND OUTPUT INTERCONNECT	802876	89536	802876	1
W 2	CABLE ASSY, 50 OHM, COAX, N(M), 3FT	853432	0G2V8	RG58C/U.36IN, 2X1INL-50	1
Z 1	* RES, NET, THK F, 10DB/20DB ATTENUATOR	760728	89536	760728	1
Z 2	* RES, NET, THK F, 20DB/20DB ATTENUATOR	760769	89536	760769	1

An * in 'S' column indicates a static-sensitive part.

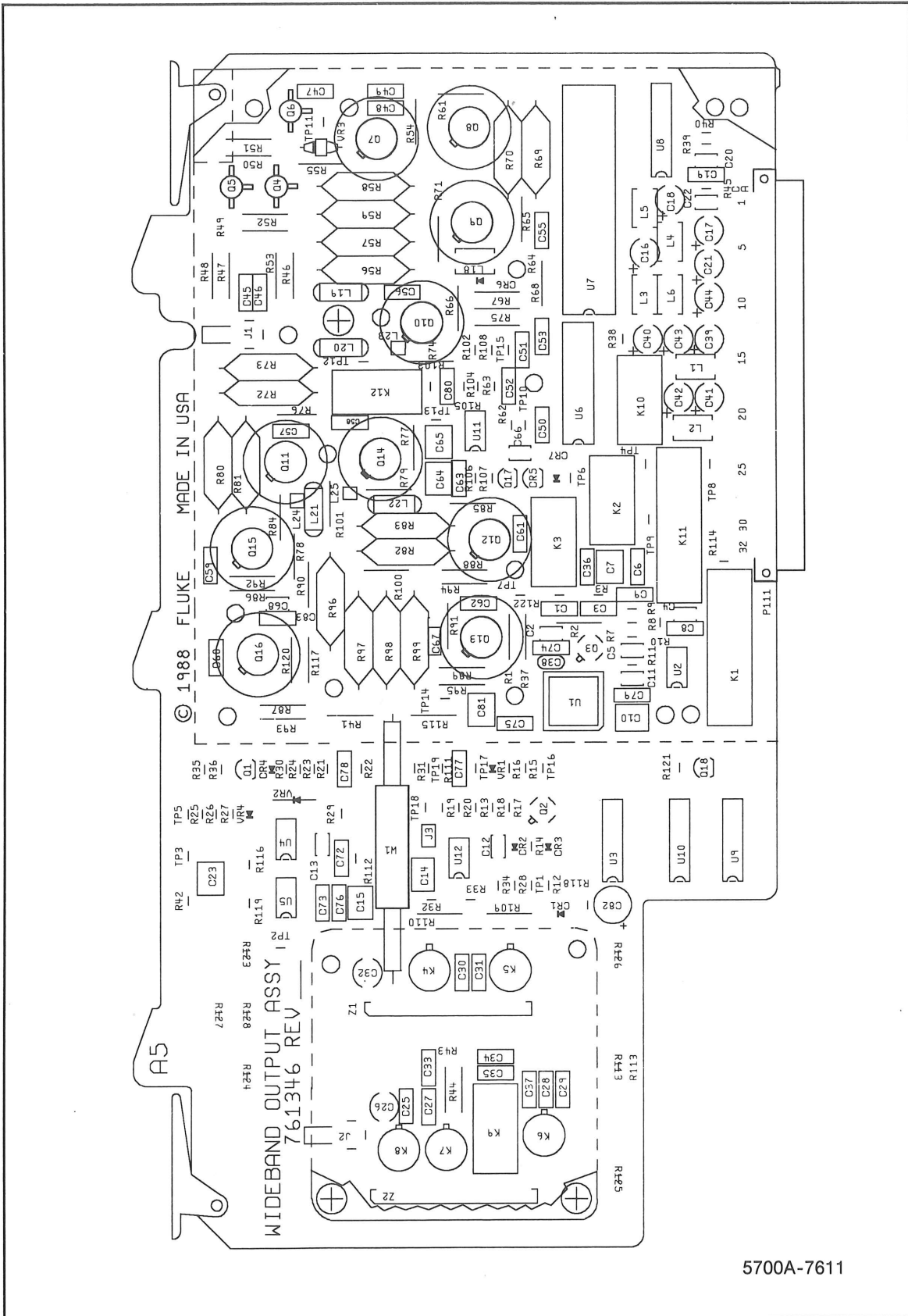


Figure 6-6. A5 Wideband Output PCA (Option -03)

LIST OF REPLACEABLE PARTS

Table 6-7. A6 Wideband Oscillator PCA, Option -03
(See Figure 6-7.)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
C 1- 8, 49-	CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	11	
C 51		807644				
C 9, 10	CAP, CER, 2700PF, +-20%, 100V, X7R	362889	04222	SR201C272MAT	2	
C 11	CAP, CER, 15PF, +-20%, 50V, COG	697524	04222	SR215A150MAT	1	
C 12, 15, 16,	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1K0050RAB	60	
C 18- 25, 29-		649913				
C 33, 35- 48,		649913				
C 52, 57, 58,		649913				
C 60, 61, 101,		649913				
C 103, 105-107,		649913				
C 201, 203, 205-		649913				
C 207, 301, 303,		649913				
C 305-307, 401,		649913				
C 403, 405-407,		649913				
C 501, 503, 505-		649913				
C 507		649913				
C 13, 14	CAP, CER, 0.047UF, +-10%, 50V, X7R	572263	04222	SR205C470KAT	2	
C 17	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22K0050RCB	1	
C 26- 28	CAP, CER, 0.01UF, +-10%, 100V, X7R	557587	04222	SR21C103MAT	3	
C 34	CAP, CER, 82PF, +-2%, 100V, COG	512350	04222	SR291A820GAT	1	
C 53	CAP, CER, 6800PF, +-5%, 50V, COG	542894	04222	SR215A682JAT	1	
C 54, 55, 102,	CAP, POLYES, 0.001UF, +-10%, 50V	720938	60935	185/.001/K0050RAB	12	
C 108, 202, 208,		720938				
C 302, 308, 402,		720938				
C 408, 502, 508		720938				
C 56, 59	CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 62, 409-412	CAP, CER, 390PF, +-2%, 50V, COG	820530	04222	SR215A391GAT	5	
C 109-112	CAP, CER, 47PF, +-2%, 100V, COG	832295	04222	SR211A470GAT	4	
C 209-212	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A821GAT	4	
C 309-312	CAP, CER, 180PF, +-2%, 50V, COG	820522	04222	SR215A181GAT	4	
C 509-512	CAP, CER, 820PF, +-2%, 50V, COG	631002	04222	SR215A821GAT	4	
CR 1, 2	DIODE, SILICON, VARACTOR, PIV= 28V	598078	04713	MVAM125	2	
CR 3- 9, 101,	* DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	12	
CR 201, 301, 401,	*	659516				
CR 501	*	659516				
CR 102, 103, 202,	* DIODE, SI, SWITCHING, PIN	334227	33025	MA4P473	10	
CR 203, 302, 303,	*	334227				
CR 402, 403, 502,	*	334227				
CR 503	*	334227				
E 2- 5	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	16	
E 6	JUMPER, REC, 2 POS, .100CTR, .025 SQ POST	757294	00779	850108-1	1	
H 1- 5	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	5	
H 10	SCREW, MACH, PH, P, STL, 6-32X0.750	114223	COMMERCIAL		1	
J 1	CONN, COAX, SMB (M), PWB, RT ANG	353243	98291	051-053-0000-220	1	
J 6	HEADER, 1 ROW, .100CTR, 2 PIN	643916	22526	65500-102	1	
L 1- 4, 7-	CHOKE, 6TURN	320911	89536	320911	12	
L 12, 14, 15		320911				
L 5	INDUCTOR, 0.22UH, +-10%, 400MHZ, SHLD	261735	24759	MR-22	1	
L 6	INDUCTOR, 1500UH, +-5%, 2.5MHZ, SHLD	806505	24759	MR-1500	1	
L 16, 102, 104	INDUCTOR, 1UH, +-5%, 156MHZ, SHLD	806562	24759	MR-1	3	
L 101, 503	INDUCTOR, 22UH, +-10%, 38MHZ, SHLD	147843	24759	MR-22	2	
L 103	INDUCTOR, 1.5UH, +-5%, 128MHZ, SHLD	413856	89536	413856	1	
L 201	INDUCTOR, 33UH, +-10%, 33MHZ, SHLD	249086	24759	MR-33	1	
L 202, 204	INDUCTOR, 2.2UH, +-5%, 108MHZ, SHLD	806547	24759	MR-2.2	2	
L 203	INDUCTOR, 3.3UH, +-10%, 88MHZ, SHLD	174714	24759	MR-3.3	1	
L 301	INDUCTOR, 82UH, +-10%, 14MHZ, SHLD	542290	24759	MR-82	1	
L 302, 304	INDUCTOR, 3.9UH, +-5%, 84MHZ, SHLD	413864	24759	MR-3.9	2	
L 303	INDUCTOR, 5.6UH, +-10%, 69MHZ, SHLD	598219	24759	MR-5.6	1	
L 401	INDUCTOR, 120UH, +-5%, 11.2MHZ, SHLD	321042	24759	MR-120	1	
L 402, 404	INDUCTOR, 8.2UH, +-5%, 58MHZ, SHLD	806521	24759	MR-8.2	2	
L 403	INDUCTOR, 12UH, +-5%, 47MHZ, SHLD	820720	24759	MR-12	1	
L 501	INDUCTOR, 220UH, +-5%, 9.4MHZ, SHLD	147835	24759	MR-220	1	
L 502, 504	INDUCTOR, 15UH, +-5%, 41MHZ, SHLD	806513	24759	MR-15	2	
MP 1	SHIELD, WIDEBAND OSCILLATOR, FRONT	775478	89536	775478	1	
MP 2	SHIELD, WIDEBAND OSCILLATOR, REAR	775486	89536	775486	1	
MP 5, 11, 12	CABLE ACCESSORY, CLAMP, ADHESIVE, NYLON	838300	06915	MWSSEB-1-01A	3	
MP 6, 7	RIVET, S-TUB, OVAL, STL, .087, .343	838458	COMMERCIAL		2	
MP 8, 9	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 10	75 OHM RF CABLE	761304	89536	761304	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-7. A6 Wideband Oscillator PCA, Option -03 (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERIC	S-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
P 101	CONN,DIN41612,TYPE C,RT ANG,64 PIN	807800	28213	7264-50D2TB	1	
Q 2, 3	* TRANSISTOR,SI,NPN,SMALL SIGNAL	698241	04713	2N4401RLRA2	2	
Q 4- 7	* TRANSISTOR,SI,NPN,HI-FREQ,SMALL SIGNL	659417	04713	BFR96	4	
Q 8, 9,101,	* TRANSISTOR,SI,N-DMOS FET,TO-72	394122	18324	SD210EE	12	
Q 105,201,205,	*	394122				
Q 301,305,401,	*	394122				
Q 405,501,505	*	394122				
Q 102,202,302,	* TRANSISTOR,SI,NPN,SM SIGNAL,HI-FREQ	272930	04713	2N5943	5	
Q 402,502	*	272930				
Q 103,104,203,	* TRANSISTOR,SI,NPN,SMALL SIGNAL	820407	04713	MPS6544RLRA	10	
Q 204,303,304,	*	820407				
Q 403,404,503,	*	820407				
Q 504	*	820407				
R 3	RES,CF,300K,+5%,0.25W	732818	59124	CF1-4VT304J	1	
R 4, 5, 39,	RES,CF,12K,+5%,0.25W	757799	59124	CF1-4VT123J	4	
R 41		757799				
R 6, 87	RES,CF,100,+5%,0.25W	810465	59124	CF1-4VT101J	2	
R 7	RES,CF,9.1K,+5%,0.25W	706663	59124	CF1-4VT912J	1	
R 8, 25- 27,	RES,CF,1K,+5%,0.25W	780585	59124	CF1-4VT102J	11	
R 38, 52, 66,		780585				
R 67, 79, 80,		780585				
R 83		780585				
R 9	RES,CF,20K,+5%,0.25W	697110	59124	CF1-4VT203J	1	
R 11, 12, 15-	RES,CF,51,+5%,0.25W	572990	59124	CF1-4510JB	8	
R 18, 21, 22		572990				
R 13, 14, 19,	RES,CF,270,+5%,0.25W	573071	59124	CF1-4271JB	7	
R 20, 23, 24,		573071				
R 70		573071				
R 28- 30, 36,	RES,CF,2K,+5%,0.25W	810457	59124	CF1-4VT202J	5	
R 81		810457				
R 31	RES,MF,7.32K,+1%,0.125W,100PPM	853630	59124	MF50DVT7321B	1	
R 32, 53	RES,MF,1K,+1%,0.125W,100PPM	816595	59124	MF50DVT1001F	2	
R 33, 42, 43,	RES,MF,49.9,+1%,0.125W,100PPM	820266	59124	MF50DVT4992F	13	
R 46, 50, 54,		820266				
R 60, 86,103,		820266				
R 203,303,403,		820266				
R 503		820266				
R 34, 57	RES,MF,30.1,+1%,0.125W,100PPM	820563	59124	MF50DVT3012F	2	
R 35, 55	RES,MF,3.32K,+1%,0.125W,100PPM	817601	59124	MF50DVT3321F	2	
R 37	RES,CF,3.9K,+5%,0.25W	810416	59124	CF1-4VT392J	1	
R 40, 48, 74-	RES,CF,10K,+5%,0.25W	697102	59124	CF1-4VT103J	33	
R 78,102,110,		697102				
R 111,113-116,		697102				
R 202,210,211,		697102				
R 213-216,302,		697102				
R 310,311,313,		697102				
R 402,410,411,		697102				
R 413,502,510,		697102				
R 511,513		697102				
R 44	RES,CF,4.7K,+5%,0.25W	721571	59124	CF1-4VT472J	1	
R 45, 47	RES,MF,200,+1%,0.125W,100PPM	820282	59124	MF50DVT2000F	2	
R 49	RES,MF,10K,+1%,0.125W,100PPM	658914	59124	MF50DVT1002F	1	
R 51	RES,MF,4.99K,+1%,0.125W,100PPM	721548	59124	MF55D4991F	1	
R 56	RES,CC,330,+5%,0.5W	108936	01121	EB3315	1	
R 58,112,212,	RES,MF,110,+1%,0.125W,100PPM	820571	59124	MF50DVT1100F	6	
R 312,412,512		820571				
R 59	RES,MF,14.3K,+1%,0.125W,100PPM	721803	59124	MF50D1432F VT	1	
R 61	RES,MF,2.49K,+1%,0.125W,100PPM	810523	59124	MF50VTD2491F	1	
R 62, 64, 65,	RES,CC,680,+5%,0.5W	178392	01121	EB6815	4	
R 69		178392				
R 63	RES,CF,200,+5%,0.25W	810390	59124	CF1-4VT201J	1	
R 68	RES,MF,1.62K,+1%,0.125W,100PPM	772004	59124	MF50DVT1621F	1	
R 71	RES,MF,75,+1%,0.125W,100PPM	820241	59124	MF50DVT75ROF	1	
R 72, 73	RES,MF,6.65K,+0.1%,0.125W,100PPM	772558	59124	MF50DVT6651B	2	
R 82	RES,CF,6.2K,+5%,0.25W	714337	59124	CF1-4VT622J	1	
R 84, 85	RES,CF,240,+5%,0.25W	830588	59124	CF1-4VT241J	2	
R 101,201,301,	RES,CC,220,+5%,0.5W	186031	01121	EB2215	5	
R 401,501		186031				
R 104,204,304,	RES,MF,249,+1%,0.5W,100PPM	241281	91637	CMF65-2490F T-1	5	
R 404,504		241281				
R 105,205,305,	RES,MF,100,+1%,0.125W,100PPM	817627	59124	MF50DVT1000F	5	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-7. A6 Wideband Oscillator PCA, Option -03 (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
R 405, 505	817627				
R 106, 107, 206,	817593	59124	CF1-4VT131J	10	
R 207, 306, 307,	817593				
R 406, 407, 506,	817593				
R 507	817593				
R 108, 208, 308,	820274	59124	MF50DVT5230F	5	
R 408, 508	820274				
R 109, 209, 309,	820290	59124	MF50DVT2671F	5	
R 409, 509	820290				
U 1	799452	04713	MC145145P-1	1	
U 2	472779	12040	LF356N	1	
U 3	454975	04713	MC1648P	1	
U 4	454959	04713	MC10131P	1	
U 5	799460	04713	MC10154P	1	
U 6	799510	04713	MC10164P	1	
U 7, 10, 11	387233	12040	LM339N	3	
U 8	473769	12040	CD4028BCN	1	
U 9	783738	34371	CA3102E	1	
U 12, 13	380188	34371	CA3183E	2	
U 14	811158	04713	MC74HC02N	1	
U 15	647115	18324	NE522N	1	
VR 1, 4	853700	14552	1N5231B	2	
VR 2	820480	04713	1N5240BRR1	1	
VR 3	820472	04713	1N5235BRR1	1	
VR 5	806802	04713	1N5341B	1	
Z 1	414003	91637	CSC10A-01-103G	1	
Z 2	500876	91637	CSC06A-01 103G	1	

An * in 'S' column indicates a static-sensitive part.

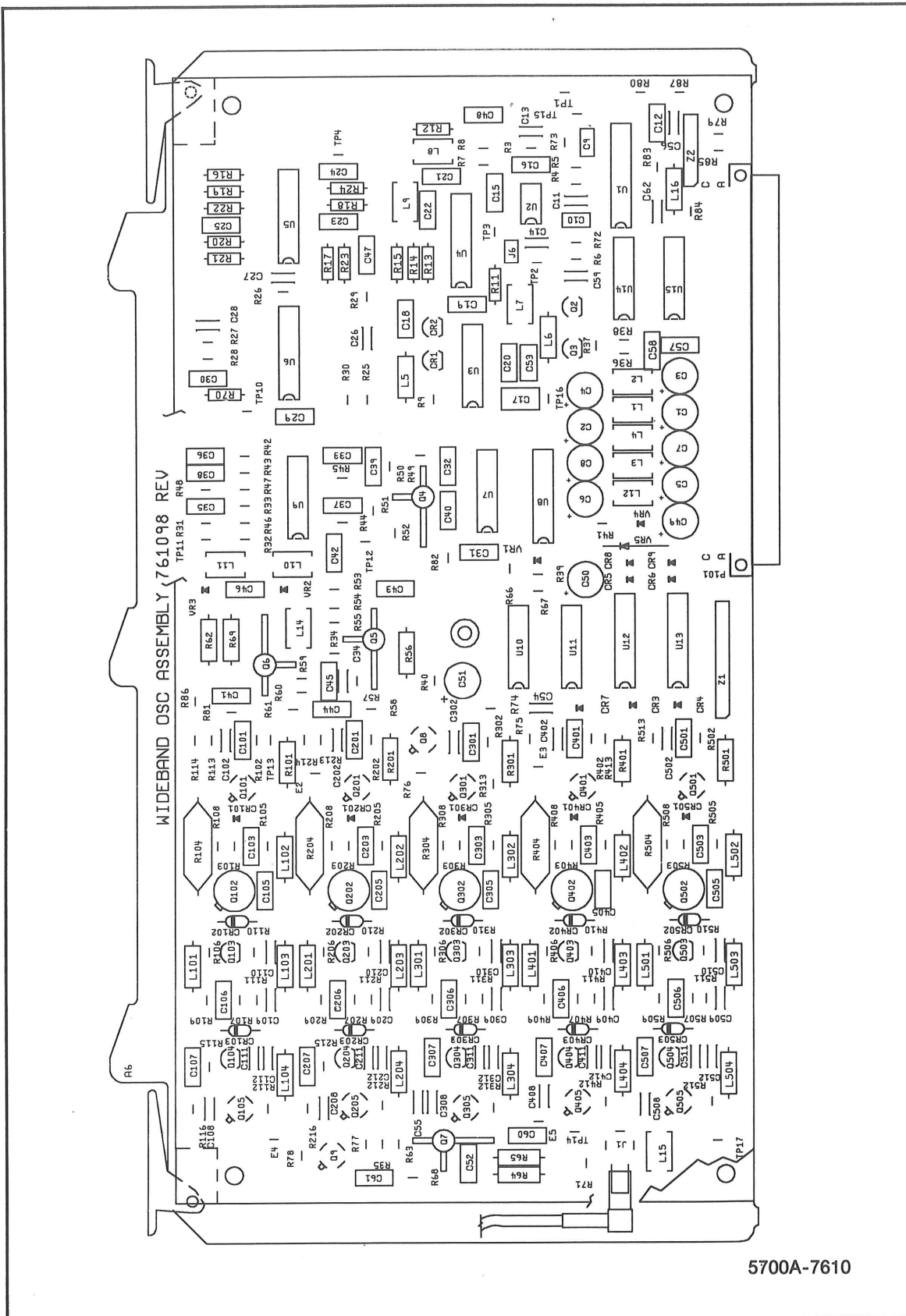


Figure 6-7. A6 Wideband Oscillator PCA (Option -03)

LIST OF REPLACEABLE PARTS

Table 6-8. A7 Current/High-Res Oscillator PCA
(See Figure 6-8.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
C 2, 3, 18-	649913	60935	185-2/0.1K0050RAB	16	
C 20, 29, 32-	649913				
C 35, 47, 48,	649913				
C 50, 51, 55,	649913				
C 56	649913				
C 4, 68	512988	05397	C315C151J1G5EA	2	
C 5	812115	04222	SR291A101GAA	1	
C 6, 7, 21-	807644	56289	199D475X0025BA1	14	
C 24, 37, 38,	807644				
C 40, 43, 52,	807644				
C 53, 60, 61	807644				
C 8	830638	04222	SR211A180GAT	1	
C 9	706705	04222	SR215A470MAT	1	
C 10	830430	04222	SR215A471MAT	1	
C 11	743427	04222	SR301A472MAT	1	
C 12, 13	715250	62643	SRAC25VB33RM6X7C3	2	
C 14	643189	62643	LR35VB6R8M6X0LLV	1	
C 15	706804	56289	199D225X0016AA1	1	
C 16	807966	04222	SR215A102GAT	1	
C 17, 45, 46,	714543	04222	SR215A330JAT	4	
C 54	714543				
C 25, 26, 30,	820548	60935	185/2473K0050RAB	7	
C 36, 41, 42,	820548				
C 49	820548				
C 27, 28	733089	60935	185/1.00K0050RGB	2	
C 31, 67	747519	60935	185/.22J0050RCB	2	
C 39	845149	56289	199D226X0025DG2	1	
C 44	697524	04222	SR215A150MAT	1	
C 59	820530	04222	SR215A391GAT	1	
C 62	631002	04222	SR215A821GAT	1	
C 65, 66	512350	04222	SR291A820GATR	2	
C 69	812123	04222	SR291A470GAA	1	
C 70	822403	62643	KME50VB47RM6X11RP	1	
CR 1, 2	742874	65940	1N4002A	2	
CR 3, 4	* 659516	03508	1N4448	2	
CR 9	598078	04713	MVAM125	1	
CR 10, 11	* 844647	07263	FDH300	2	
E 1, 2	816090	91984	1SOT1	20	
H 1- 4	838458	COMMERCIAL		4	
HR 2	* 775387	89536	775387	1	
K 1- 3, 6,	769307	61529	DS2EML2DC5VH284	10	
K 7, 10- 13,	769307				
K 16	769307				
K 4, 5, 8,	715078	61529	DS4E-ML2-DC5V-C-H239	4	
K 9	715078				
K 14, 15, 17	733063	51984	MR602-5SR	3	
L 1- 3, 5,	320911	89536	320911	7	
L 7- 9	320911				
L 4	413864	89536	413864	1	
L 10	806562	24759	MR-1	1	
L 11	174763	24759	MR-150	1	
MP 1- 5	816587	30161	5968B	5	
MP 6	775619	89536	775619	2	
MP 7, 8	775684	89536	775684	2	
MP 9, 10	764589	89536	764589	2	
MP 11, 12	494724	32559	CP-66	2	
P 211, 212	807800	28213	7264-50D2TB	2	
Q 1	* 369660	04713	TIP32T	1	
Q 2, 5, 16,	* 698225	04713	2N3904RLRA2	4	
Q 18	* 698225				
Q 3, 4, 19	* 698233	04713	2N3906RLRA	3	
Q 6, 7	* 495689	04713	MPS-U56	2	
Q 8, 9	* 535468	04713	MPS-U06	2	
Q 10, 11	* 325753	09214	D45C5	2	
Q 12, 13	* 325761	09214	D44C5	2	
Q 14, 25	* 386128	01295	TIP120T	2	
Q 15	* 698241	04713	2N4401RLRA2	1	
Q 17	* 640516	17856	V11809	1	
Q 20- 23	* 782565	59640	VN0104N3	4	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-8. A7 Current/High-Res Oscillator PCA (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E-
-A>-NUMERICS-----	S-----DESCRIPTION-----	--NO--	-OR CODE- OR GENERIC TYPE-----	QTY-	
Q 24	* TRANSISTOR, SI, BV=60V, 65W, TO-220	559989	04713 TIP125	1	
R 1, 38, 54,	RES,CF,1K,+5%,0.25W	780585	59124 CF1-4VT102J	9	
R 55, 61, 62,		780585			
R 65, 78, 91		780585			
R 3, 36	RES,CF,4.7K,+5%,0.25W	721571	59124 CF1-4VT472J	2	
R 4, 9, 94	RES,MF,1K,+1%,0.125W,100PPM	816595	59124 MF50DVT1001F	3	
R 5, 8	RES,CF,62K,+5%,0.25W	713941	59124 CF1-4VT623J	2	
R 6, 7	RES,MF,8.87K,+1%,0.125W,100PPM	658922	59124 MF50DVT8871F	2	
R 10, 12, 29,	RES,MF,8.25K,+1%,0.125W,100PPM	820357	59124 MF50DVT8251F	4	
R 32		820357			
R 11, 13, 81,	RES,MF,909,+1%,0.125W,100PPM	820308	59124 MF50DVT9090F	4	
R 82		820308			
R 14	RES,WW,1.2,+5%,2W	248658	23237 SPH21R2J	1	
R 15, 44	RES,CF,2K,+5%,0.25W	810457	59124 CF1-4VT202J	2	
R 16	RES,CF,20K,+5%,0.25W	697110	59124 CF1-4VT203J	1	
R 17, 37, 50-	RES,CF,16K,+5%,0.25W	714303	59124 CF1-4VT163J	5	
R 52		714303			
R 18, 89, 95	RES,CF,1.5K,+5%,0.25W	810432	59124 CF1-4VT152J	3	
R 19	RES,MF,150,+1%,0.125W,100PPM	822171	59124 MF50DVT1500F	1	
R 20- 23	RES,MF,162,+1%,0.125W,100PPM	820340	59124 MF50DVT1620F	4	
R 24- 27	RES,MF,13,+1%,0.5W,100PPM	820233	23783 820223	4	
R 28, 30, 33	RES,MF,10K,+1%,0.125W,100PPM	658914	59124 MF50DVT1002F	3	
R 31	RES,MF,4.12K,+1%,0.125W,100PPM	820381	59124 MF50DVT4121F	1	
R 34	RES,MF,1.91K,+1%,0.125W,100PPM	820365	59124 MF50DVT1911F	1	
R 35, 66, 72,	RES,CF,100,+5%,0.25W	810465	59124 CF1-4VT101J	5	
R 73, 90		810465			
R 42	RES,CF,100K,+5%,0.25W	658963	59124 CF1-4VT104J	1	
R 43, 60, 67,	RES,CF,10K,+5%,0.25W	697102	59124 CF1-4VT103J	4	
R 68		697102			
R 45, 46	RES,CF,33K,+5%,0.25W	733667	59124 CF1-4VT333J	2	
R 47, 48	RES,CF,130K,+5%,0.25W	747436	59124 CF1-4VT134J	2	
R 49	RES,CF,2.4M,+5%,0.25W	772566	59124 CF1-4VT245J	1	
R 53	RES,CF,9.1K,+5%,0.25W	706663	59124 CF1-4VT912J	1	
R 56, 57	RES,CC,470,+10%,1W	109710	01121 GB4711	2	
R 58	RES,CF,620,+5%,0.25W	810408	59124 CF1-4VT621J	1	
R 59, 63, 93	RES,CF,3K,+5%,0.25W	810366	59124 CF1-4VT302J	3	
R 64	RES,MF,10,+1%,0.125W,100PPM	820399	59124 MF50DVT10R0F	1	
R 70	RES,MF,100,+1%,0.125W,100PPM	817627	59124 MF50DVT1000F	1	
R 71	RES,MF,7.32K,+1%,0.125W,100PPM	853630	59124 MF50DVT7321B	1	
R 74, 75	RES,CF,47,+5%,0.25W	822189	59124 CF1-4VT470J	2	
R 76, 77, 92	RES,CF,240,+5%,0.25W	830588	59124 CF1/4VT241J	3	
R 79, 80	RES,MF,787,+1%,0.125W,100PPM	853627	59124 MF50DVT7870F	2	
R 83, 84	RES,CF,330,+5%,0.25W	830596	59124 CF1-4VT331J	2	
R 85, 86	RES,WW,27,+5%,2W	844563	05347 CS3N101270J	2	
R 87, 88	RES,CF,51K+5%,0.25W	747550	59124 CF1-4VT513J	2	
U 2, 3	* IC,OP AMP,PRECISION,LOW NOISE	782920	64155 LT1007CN8	2	
U 4, 22	* IC,OP AMP,JFET INPUT,22V SUPPLY,DIP	832584	04713 LF356BN	2	
U 5, 18	* IC,CMOS,QUAD BILATERAL SWITCH	586735	17856 DG211CJ	2	
U 6, 20	* IC,OP AMP,DUAL,PRECISION,8-PIN DIP	783696	64155 LT1013CN8	2	
U 7	* IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371 CP82C55A	1	
U 8- 10	* IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289 UCN5801A	3	
U 11	* IC,BIMOS,4 CHNL HI-VOLT DRVR W/LATCH	820514	56289 UCN-5800A	1	
U 12	* IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713 MM74HC4051N	1	
U 13	* IC,COMPARATOR,HI-SPEED,14 PIN DIP	647115	18324 NE522N	1	
U 14	* IC,CMOS,DUAL D F/F,+EDG TRG,W/CLR	741702	04713 MC74HC74N	1	
U 15	* IC,CMOS,QUAD INPUT NOR GATE	811158	04713 MC74HC02N	1	
U 16	* IC,CMOS,4-BIT PHASE LCKD LOOP FRQ SYN	799452	04713 MC145145P1	1	
U 17	* IC,CMOS,4-BIT PHASE LCKD LOOP FRQ SYN	820506	04713 MC145146P1	1	
U 19	* IC,ECL,VOLTAGE CONTROLLED OSCILLATOR	454975	04713 MC1648P	1	
U 21-	* IC,LSTTL,DUAL D F/F,+EDG TRG,W/CLR	393124	04713 SN74LS74AN	1	
VR 3	* ZENER,UNCOMP,5.6V,5%,20MA,0.5W	820464	04713 1N5232BRR1	1	
Z 1	* RES,NET,THN F, 40.K(8)+500/2.OPPM	760835	89536 760835	1	
Z 2	RES,CERM,SIP,6 PIN,5 RES,10K,+2%	500876	91637 CSC06A-01-103G	1	
Z 3	RES,CERM,NET,8 PINS,4 RES,10K	855150	91637 CSC08B-03-103G	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

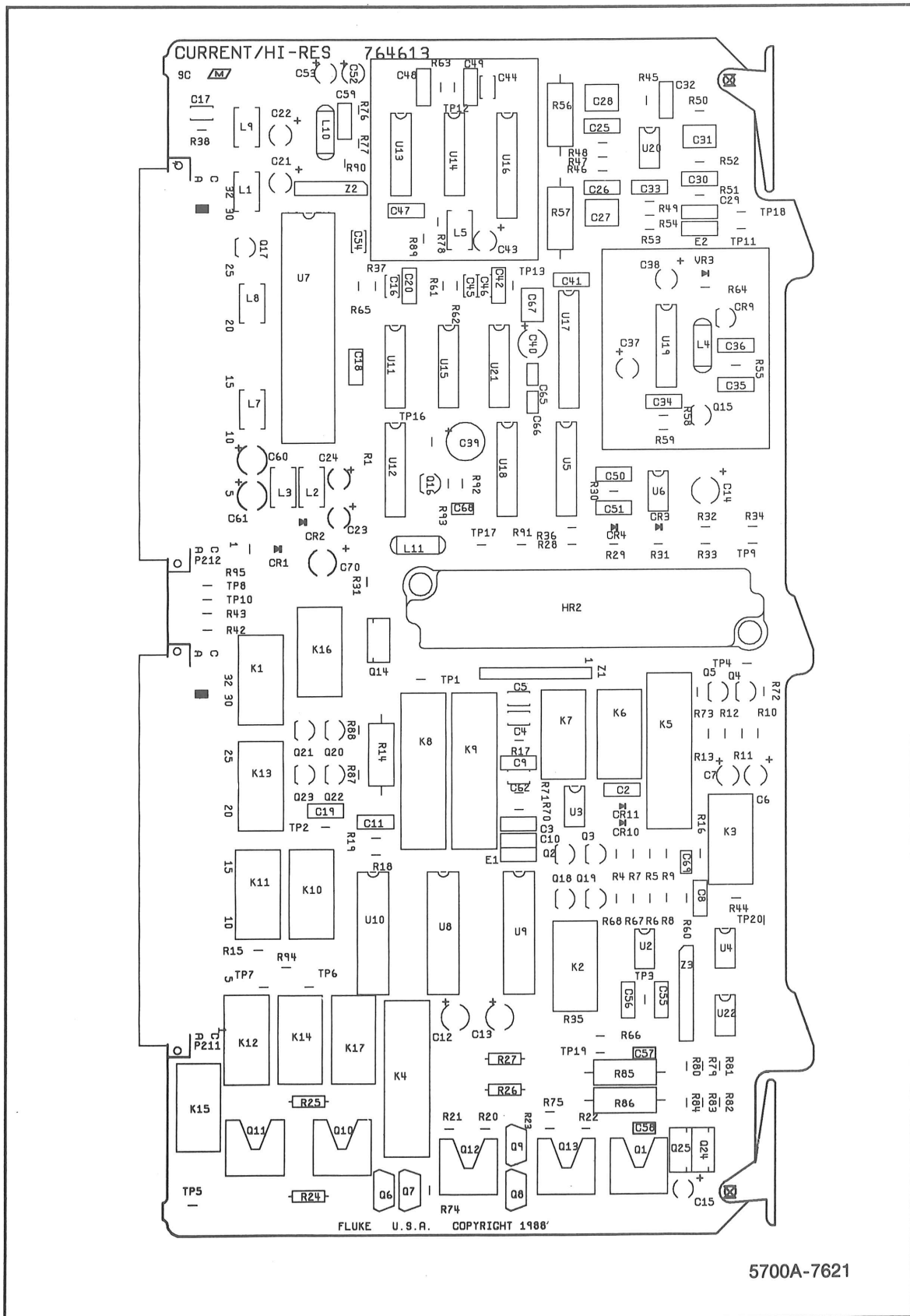


Figure 6-8. A7 Current/High-Resolution Oscillator PCA

LIST OF REPLACEABLE PARTS

Table 6-9. A8 Switch Matrix PCA
(See Figure 6-9.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS--> S-----	DESCRIPTION-----	--NO--	-OR GENERIC TYPE-----	QTY-	-E-
C 1, 3, 18	CAP, CER, 470PF, +-10%, 50V, COG	733071	SR215A471KAT	3	
C 2, 5	CAP, CER, 33PF, +-5%, 50V, COG	714543	SR215A330JAT	2	
C 4	CAP, CER, 0.01UF, +80-20%, 50V, Z5V	697284	DD106L10Z5U103M50V	1	
C 6- 9, 12,	CAP, POLYES, 0.22UF, +-5%, 50V	747519	185.22/J0050RCB	12	
C 13, 15, 16,		747519			
C 21, 25- 27		747519			
C 10, 29	CAP, CER, 100PF, +-20%, 50V, COG	721605	RPE113Z5U101M50V	2	
C 11	CAP, TA, 4.7UF, +-20%, 25V	807644	199D475X0025BA1	1	
C 14	CAP, CER, 15PF, +-2%, 100V, COG	832287	SR211A156GAT	1	
C 17	CAP, POLYES, 1UF, +-10%, 50V	733089	185/1.00K0050RAB	1	
C 19	CAP, POLYES, 0.1UF, +-10%, 50V	649913	185-2/0.1K0050RAB	1	
C 20	CAP, CER, 1000PF, +-20%, 50V, X7R	697458	89536 697458	1	
C 22	CAP, TA, 15UF, +-20%, 20V	807610	199D156X0020DA1	1	
C 23	CAP, CER, 22PF, +-2%, 50V, COG	714832	SR215A220GAT	1	
C 30	CAP, CER, 330PF, +-5%, 50V, COG	697441	SR215A331JAT	1	
CR 1, 3, 4,	* DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508 1N4448	8	
CR 7- 9, 12,	*	659516			
CR 13	*	659516			
CR 2, 10	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940 1N4002A	2	
CR 5, 6	* DIODE, SI, BV=30V, IO=150MA, 250MW	853523	07263 FJT1100	2	
CR 14, 15	DIODE, SI, 100 PIV, 1.0 AMP	820449	65940 1N4002A-T20 (A)	2	
H 5- 8	RIVET, S-TUB, OVAL, STL, .087, .343	838458	COMMERCIAL	4	
HR 1	* RN/HYBRID 2V DC HYBRID	775379	89536 775379	1	
K 1, 3- 6,	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529 DS4EML2DC5VCH239	15	
K 13, 15- 20,		715078			
K 22, 24, 25		715078			
K 2, 7- 12,	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529 DS2EML2DC5VCH284	18	
K 14, 21, 23,		769307			
K 26- 33		769307			
L 1- 4	CHOKE, 6TURN	320911	89536 320911	4	
MP 1	HEAT DIS, PWB MT, .75X.50X.50, TO-220	816587	30161 5968B	1	
MP 2	MOLDED COVER, HYBRID, R-NET	775619	89536 775619	1	
MP 9, 10	EJECTOR, PWB, NYLON	494724	32559 CP-66	2	
P 201, 202	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213 7264-50D2TB	2	
Q 1, 8	* TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713 TIP120T	2	
Q 2	* TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713 2N3904RLRA2	1	
Q 3	* TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713 TIP32T	1	
Q 4	* TRANSISTOR, SI, PNP, TO92	698233	04713 2N3906RLRA	1	
Q 6, 7, 11	* TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565	59640 VN0104N3	3	
Q 9, 10	* TRANSISTOR, SI, N-JFET, TO92	845073	17856 J2929	2	
Q 12, 13	* TRANSISTOR, SI, N-JFET, HI-VOLTAGE, TO-92	832147	17856 J2907-TR3	2	
R 1	RES, MF, 15.4K, +-1%, 0.125W, 100PPM	772038	59124 MF50DVT1542J	1	
R 2	RES, MF, 1.21K, +-1%, 0.125W, 100PPM	810507	59124 MF50DVT1211F	1	
R 3, 4, 6	RES, CF, 10K, +-5%, 0.25W	697102	59124 CF1-4VT103J	3	
R 5, 7, 10,	RES, MF, 1K, +-1%, 0.125W, 100PPM	816595	59124 MF50DVT1001F	5	
R 19, 34		816595			
R 8	RES, MF, 12.7K, +-1%, 0.125W, 25PPM	817510	91637 CMF501272F T-9	1	
R 9, 46, 47	RES, MF, 10K, +-0.1%, 0.125W, 50PPM	733972	59124 MF50CVT1002B	3	
R 11, 20, 35	RES, CF, 560, +-5%, 0.25W	810440	59124 CF1-4VT561J	3	
R 12	RES, CF, 1.5, +-5%, 0.25W	732800	59124 CF1-4VT1R5J	1	
R 13	RES, CF, 330, +-5%, 0.25W	830596	59124 CF1-4VT331J	1	
R 14, 48	RES, CF, 4.7K, +-5%, 0.25W	721571	59124 CF1-4VT472J	2	
R 15- 17, 21	RES, CF, 100K, +-5%, 0.25W	658963	59124 CF1-4VT104J	4	
R 18, 33, 44	RES, MF, 20K, +-0.1%, 0.25W, 25PPM	810564	91637 CMF552002B T-9	3	
R 22, 23, 39,	RES, CF, 100, +-5%, 0.25W	810465	59124 CF1-4VT101J	4	
R 40		810465			
R 24	1/4 WATT HERM. W.W. RESISTOR	864207	89536 864207	1	
R 25	RES, CF, 6.2K, +-5%, 0.25W	714337	59124 CF1-4VT622J	1	
R 26	RES, CF, 9.1K, +-5%, 0.25W	706663	59124 CF1-4VT912J	1	
R 27, 28	RES, CF, 620, +-5%, 0.25W	810408	59124 CF1-4VT621J	2	
R 29, 30	RES, MF, 14.3, +-1%, 0.125W, 100PPM	831396	59124 MF50DVT14R3F	2	
R 32	RES, MF, 10, +-1%, 0.125W, 100PPM	820399	59124 MF50DVT10R0F	1	
R 38	RES, CC, 47, +-5%, 0.125W	512061	01121 BB4705	1	
R 41, 42	RES, CF, 20, +-5%, 0.25W	810382	59124 CF1-4VT200J	2	
R 43	RES, MF, 150, +-1%, 0.125W, 100PPM	822171	59124 MF50DVT1500F	1	
T 1	MV COMMON MODE CHOKE	802751	89536 802751	1	
TP 1- 10	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984 1S0T1	10	
U 1	* IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371 CP82C55A	1	
U 2	* IC, CMOS, BCD-DEC & BINRY-OCTAL DECODER	650689	04713 MC14028BCPD	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-9. A8 Switch Matrix PCA (cont.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	-E-	
U 3	* IC,BPLR,FAHRENHEIT TEMPATURE SENSOR	845156	27014 LM34CZ	1	
U 4	* IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713 MM74HC4051N	1	
U 5- 13	* IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289 UCN5801A	9	
U 15	* IC,COMPARATOR,DUAL,LO-PWR,8 PIN DIP	478354	12040 LM393N	1	
U 17	* IC,OP AMP,GEN PURPOSE,COMPENSATED	402750	12040 LM741CN	1	
U 19	* IC,ARRAY,5 TRANS,5 ISO: 2-PNP,3-NPN	418954	02735 CA3096E	1	
U 20	* IC,OP AMP,PRECISION,LOW NOISE	782920	64155 LT1007CN8	1	
U 21	* IC,OP AMP,LO-OFFSET VOLTAGE,LO-NOISE	605980	06665 OP-07DP	1	
VR 1, 2	* ZENER,UNCOMP,6.8V,5%,20.0MA,0.4W	820431	04713 1N754ARR1	2	
Z 2	* RNET,8840A OUTPUT DIVIDER	655811	89536 655811	1	
Z 3, 4	RES,CERM,SIP,6 PIN,5 RES,330,+/-2%	408302	91637 CSC06A-01-3R30G	2	
Z 5	RES,CERM,SIP,8 PIN,4 RES,10K,+/-2%	513309	91637 CSC08A-03-103G	1	
Z 6	RES,CERM,SIP,6 PIN,5 RES,1K,+/-2%	408310	91637 CSC06A-01-102G	1	

An * in 'S' column indicates a static-sensitive part.

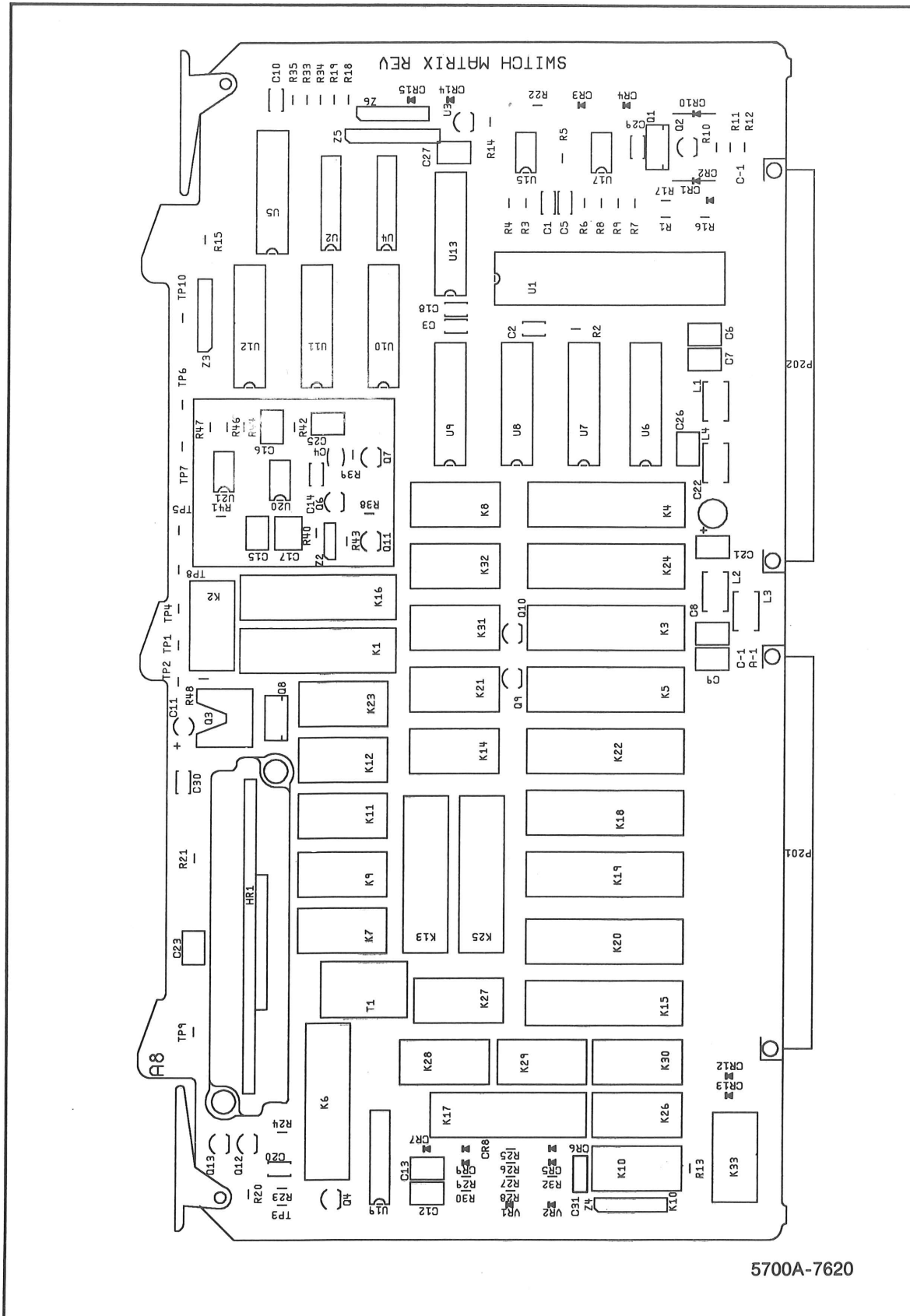


Figure 6-9. A8 Switch Matrix PCA

LIST OF REPLACEABLE PARTS

Table 6-10. A9 Ohms Cal PCA
(See Figure 6-10.)

REFERENCE DESIGNATOR	S	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	N O T E
C 1, 28, 29,		CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1K0050RAB	4	
C 55			649913				
C 2		CAP, CER, 100PF, +-20%, 50V, COG	721605	72982	RPE113Z5U101M50V	1	
C 3, 32, 35		CAP, CER, 1000PF, +-20%, 100V, X7R	816181	04222	SR171C102MAA	3	
C 4, 5, 8,		CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22/J/0050/R/C/B	15	
C 10, 14, 15,			747519				
C 31, 37- 43,			747519				
C 45			747519				
C 7, 9, 22,		CAP, TA, 2.2UF, +-10%, 35V	697433	31433	T356E225K035AS	4	
C 23			697433				
C 12, 13		CAP, CER, 220PF, +-20%, 50V, COG	740654	04222	SR215A221MAT	2	
C 16, 17		CAP, CER, 22PF, +-5%, 50V, COG	714550	04222	SR215A220JAT	2	
C 18, 33		CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	2	
C 19, 24, 25		CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	3	
C 20, 52		CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	2	
C 21		CAP, CER, 2700PF, +-5%, 50V, COG	832303	04222	SR215A272JAT	1	
C 26, 27		CAP, CER, 1800PF, +-5%, 50V, COG	832717	04222	SR215A182JAT	2	
C 30		CAP, POLYPR, 0.1UF, +-10%, 160V	446781	60935	171/.1/K/160/D	1	
C 34, 51		CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 36		CAP, TA, 47UF, +-20%, 10V	733246	56289	199D476X0010DA1	1	
C 48		CAP, POLYPR, 0.47UF, +-10%, 160V	446807	60935	171/.47K160H	1	
C 53, 54		CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RGB	2	
CR 1- 10	*	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	10	
H 1- 4		RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 5		SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	1	
K 1- 5, 10,		RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	20	
K 11, 13, 15-			769307				
K 18, 20, 22-			769307				
K 27, 31			769307				
K 6- 9, 12,		RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4E-ML2-DC5V-C-H239	11	
K 14, 19, 21,			715078				
K 28- 30			715078				
L 2- 8		CHOKER, 6TURN	320911	89536	320911	7	
M 4		SHIELD, OHMS CAL	775312	89536	775312	1	
MP 1, 2		EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 3		SLEEV, PVC, 0.500ID, CLEAR	113761	88690	ASTRA703/105	2	
MP 4		SHIELD, HIGH VOLTAGE CONTROL	761197	89536	761197	1	
MP 6- 17		SPACER, RND, SOLUBLE, .1560D, .060THK	296319	32559	TO-8-06	15	
P 311, 312		CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1	*	TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TIP120T	1	
Q 2- 4	*	TRANSISTOR, SI, N-DMOS PWR FET, TO-92	782565	59640	VN0104N3	3	
Q 5	*	TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	1	
Q 6	*	TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
R 9, 10, 43,		RES, CF, 47, +-5%, 0.25W	822189	59124	CF1-4VT470J	4	
R 44			822189				
R 11		RES, CC, 330, +-5%, 1W	163394	01121	GB3311	1	
R 12, 23		RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	2	
R 13, 26, 46		RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	3	
R 14, 15		RES, CF, 24, +-5%, 0.25W	817528	59124	CF1-4VT240J	2	
R 16, 17		RES, MF, 10K, +-0.1%, 0.125W, 100PPM	658955	59124	MF50DVT1002B	2	
R 18		RES, MF, 76K, +-0.1%, 0.125W, 50PPM	851332	59124	MF50CVT763B	1	
R 24, 31		RES, CF, 22K, +-5%, 0.25W	747535	59124	CF55VT223J	2	
R 25		RES, CC, 150, +-5%, 1W	178566	01121	GB1515	1	
R 27		RES, MF, 10K, +-1%, 0.125W, 100PPM	658914	59124	MF50DVT1002F	1	
R 29, 30		RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4VT201J	2	
R 32, 35, 39,		RES, CF, 1K, +-5%, 0.25W	780585	59124	CF1-4VT102J	4	
R 45			780585				
R 33		RES, CF, 16K, +-5%, 0.25W	714303	59124	CF1-4VT163J	1	
R 41		RES. SET, 1.0 OHM 0.04% 3PPM TC	824193	89536	824193	1	
R 42		RES. SET, 1.9 OHM 0.04% 3PPM TC	824201	89536	824201	1	
R 80		RES, CF, 10K, +-5%, 0.25W	697102	59124	CF1-4VT103J	1	
T 1		TRANSFORMER, OHMS 2W COMP	802652	89536	802652	1	
TP 1, 2, 5-		JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	18	
TP 20			816090				
U 1- 3	*	IC, OP AMP, LO-OFFSET VOLTAGE, LO-NOISE	605980	06665	OP-07DP	3	
U 4	*	IC, OP AMP, PRECISION, LOW NOISE	782920	64155	LT1007CN8	1	
U 5	*	IC, OP AMP, GEN PURPOSE, COMPENSATED	402750	12040	LM741CN	1	
U 6	*	IC, BIPOLAR, REG PULSE WIDTH MODULATOR	811935	64155	LT3526N	1	
U 7	*	IC, OP AMP, CHOPPER STABILIZED, LOW NOISE	810952	64155	LT1052CN/FLOW 52	1	

An * in 'S' column indicates a static-sensitive part.

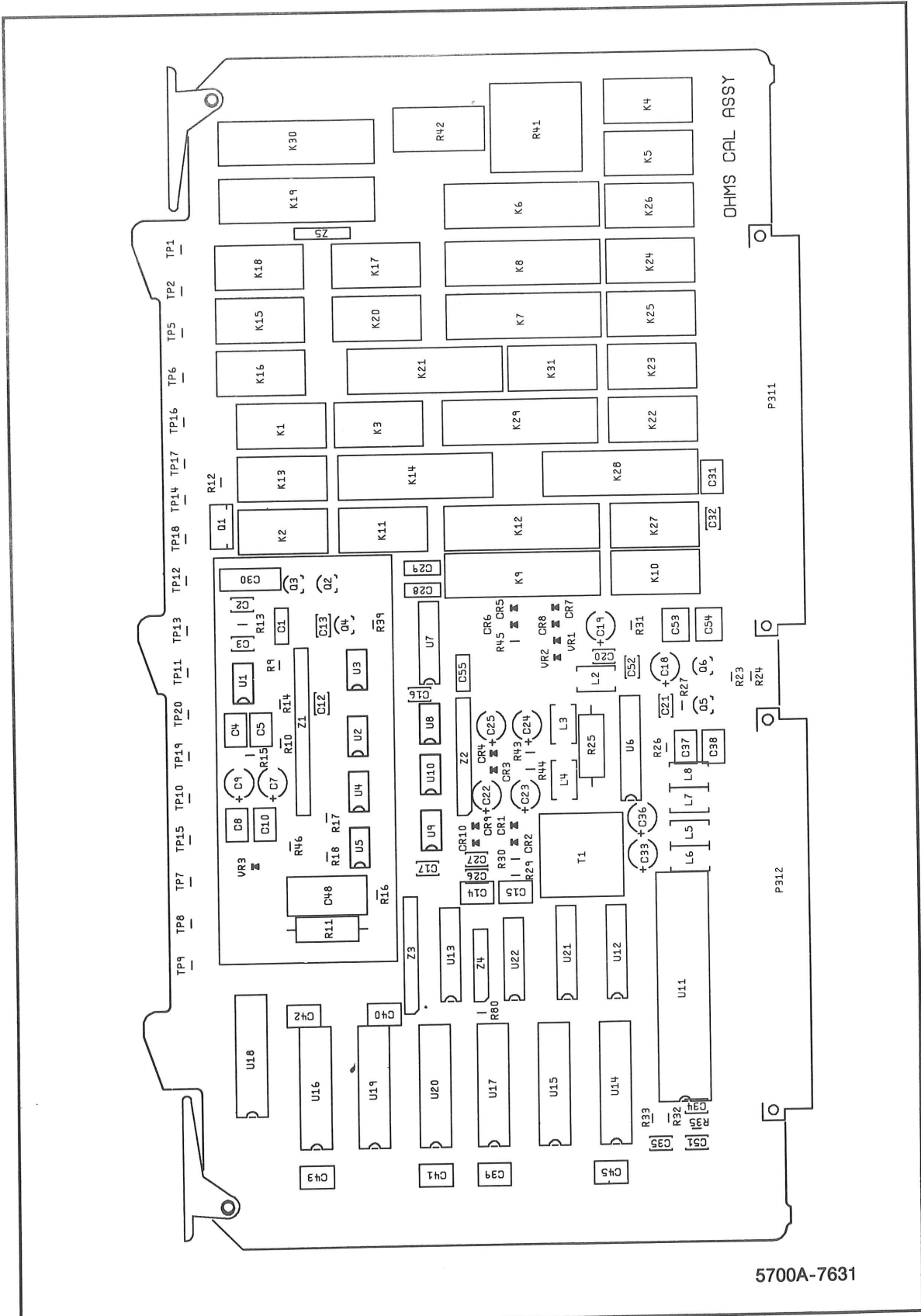
LIST OF REPLACEABLE PARTS

Table 6-10. A9 Ohms Cal PCA (cont.)

REFERENCE DESIGNATOR		DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS----->	S-----	-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
U	8, 9	* IC, OP AMP, LO-NOISE, 8 PIN DIP	495051	18324	N35534N	2	
U	10	* IC, OP AMP, DUAL, JFET INPUT, 8 PIN DIP	854059	06665	OP215EZ	1	
U	11	* IC, CMOS, PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U	12	* IC, CMOS, BCD-DEC & BINRY-OCTAL DECODER	650689	04713	MC14028BCPD	1	
U	13	* IC, CMOS, 3-8 LINE DCDR W/ENABLE	773036	04713	MC74HC138N	1	
U	14- 20	* IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	7	
U	21	* IC, CMOS, 8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
U	22	* IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HCU04N	1	
VR	1, 2	* ZENER, UNCOMP, 8.2V, 5%, 20MA, 0.4W	810309	04713	1N756ARR1	2	
VR	3	* ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	1	
Z	1	* RES NET THK FILM TESTED	813659	89536	813659	1	
Z	2	* RES NET THK FILM TESTED	809368	89536	809368	1	
Z	3	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	71450	750	1	
Z	4	RES, CERM, SIP, 6 PIN, 5 RES, 1K, +-2%	408310	91637	CSC10A-03-101G	1	
Z	5	RES NET THN F SUBST TRIMMED TESTED	828145	89536	828145	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS



5700A-7631

Figure 6-10. A9 Ohms Cal PCA

LIST OF REPLACEABLE PARTS

Table 6-11. A10 Ohms Main PCA
(See Figure 6-11.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N 0 T E
-A>-NUMERICS-----> S-----	DESCRIPTION-----	--NO--	-OR CODE--	-OR GENERIC TYPE-----	
C 1, 2, 7,	CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22/J/0050/R/C/B	8
C 10- 13, 16		747519			
C 3, 4	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	2
C 6	CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	1
H 3- 6	RIVET, S-TUB, OVAL, STL, .087, .343	838458	COMMERCIAL		4
K 1- 4, 7,	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	20
K 9, 10, 13-		769307			
K 17, 28- 30,		769307			
K 33- 37		769307			
K 5	RELAY, REED, 1 FORM A, 5VDC	806950	71707	7003-5065	1
K 6, 8, 11,	RELAY, REED, 1 FORM A, 4.5VDC	544031	71707	1240-0129	4
K 12		544031			
K 18- 27, 31,	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	13
K 32, 39		715078			
K 38	RELAY, ARMATURE, 2 FORM C, 5V	733063	61529	DS2ESDC5V	1
L 4, 5	CHOKER, 6TURN	320911	89536	320911	2
MP 1, 2	SPACER, SWAGED, RND, BR, 6-32, .875	266486	9W423	9543B-B-0632	2
MP 3, 4	EJECTOR, PWB, NYLON	494724	32559	CP-66	2
P 301, 302	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2
R 1	* RES, CERM, 90M, +-.05%, .75W, 10 PPM	783654	19647	TF656R	1
R 2, 3	RES, CF, 270, +-5%, 0.25W	810424	59124	CF1-4VT271J	2
R 5	RES, CF, 100, +-5%, 0.25W	810465	59124	CF1-4VT101J	1
R 6	RES, MF, 287K, +-1%, 0.125W, 100PPM	851899	59124	MF50DVT2873F	1
TP 1- 5	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	5
U 1	* IC, OP AMP, JFET INPUT, LOW NOISE, TO-99	807933	13919	OPA111AM	1
U 2, 3, 5-	* IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	9
U 8, 11- 13		782912			
U 9	* IC, CMOS, BCD-DEC & BINRY-OCTAL DECODER	650689	04713	MC14028BCPD	1
U 10	* IC, CMOS, 3-8 LINE DCDR W/ENABLE	773036	04713	MC74HC138N	1
VR 1	* ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	1
Z 1	* RES NET THN F TESTED	798330	89536	798330	1
Z 2	* RES, NET, THN F, 10.MEG, (7) +-250/20PPM	759753	89536	759753	1
Z 3	* RES, NET, THN F,	759803	89536	759803	1

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

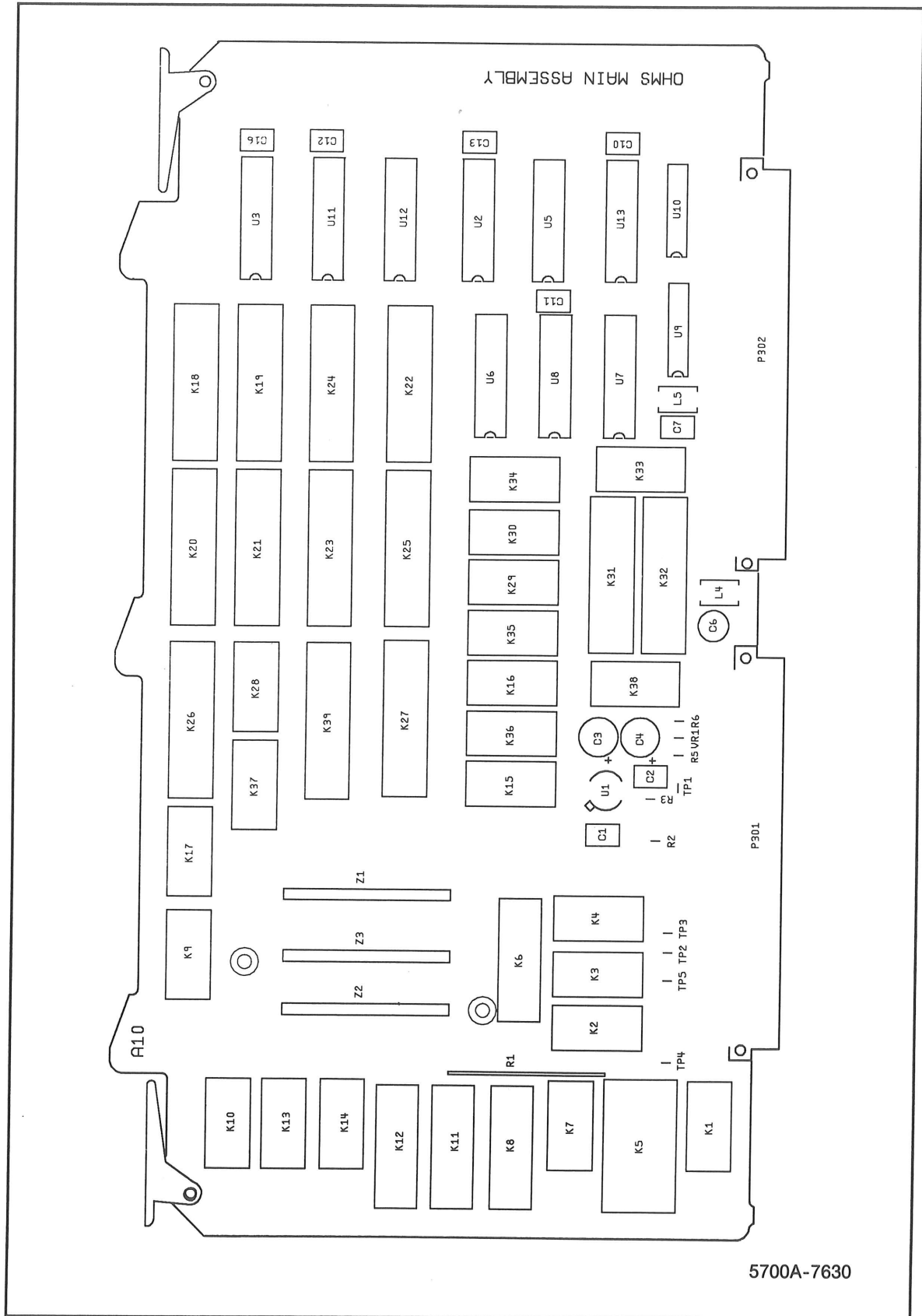


Figure 6-11. A10 Ohms Main PCA

LIST OF REPLACEABLE PARTS

Table 6-12. All DAC PCA
(See Figure 6-12.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERIC-----> S-----DESCRIPTION-----> --NO--		-CODE-	-OR GENERIC TYPE-----		-E-
A 1	761395	89536	761395	1	
A 2	764639	89536	764639	1	
C 9, 12	816843	62643	KM63VB10RM5X11RP	2	
C 19, 20	697433	31433	T356E225K035AS	2	
C 27, 28	697524	04222	SR215A150MAT	2	
C 29	816728	04222	SR211A221GAT	1	
C 45, 84, 89,	446781	60935	171/.1/K/160/D	4	
C 95	446781				
C 57, 85	714550	04222	SR215A220JAT	2	
C 78	697409	84411	J1320R47MF10PCT50V	1	
C 90	721050	68919	MKP20-336-K-63V	1	
C 93	697441	04222	SR215A331JAT	1	
C 110,111	706028	60935	185-2.22K0050RCB	2	
CR 1, 3- 6,	659516	03508	1N4448	8	
CR 8, 12, 13	659516				
CR 2	741512	17856	J9060TR	1	
CR 7	832105	17856	J2900	1	
H 1	152173		COMMERCIAL	1	
H 9- 12	838458		COMMERCIAL	4	
H 21	129882		COMMERCIAL	1	
H 26	184044		COMMERCIAL	1	
H 28	101055		COMMERCIAL	1	
H 32	797761	89536	797761	1	
HR 5	761338	89536	761338	1	
HR 6	761411	89536	761411	1	
K 1, 2, 4	715078	61529	DS4EML2DC5VCH239	3	
K 3, 5- 8	769307	61529	DS2EML2DC5VH284	5	
L 1- 7, 10	320911	89536	320911	8	
M 2	775353	89536	775353	1	
M 3	761429	89536	761429	1	
MP 1	775619	89536	775619	1	
MP 2, 3	266486	9W423	9543B-B-0632	2	
MP 5, 6	494724	32559	CP-66	2	
MP 7- 9	816587	30161	5968B	3	
MP 10	811760	30161	5972B	1	
MP 11	797720	89536	797720	1	
MP 31	797746	89536	797746	1	
P 401, 402	807800	28213	7264-50D2TB	2	
Q 1, 9	386128	04713	TIP120T	2	
Q 2, 3	369660	04713	TIP32T	2	
Q 4- 7, 11,	782565	59640	VN0104N3	8	
Q 22, 25, 26	782565				
Q 8	288761	56289	NPS404	1	
Q 10, 19, 56	698225	04713	2N3904RLRA2	3	
Q 12, 13, 16,	832147	17856	J2907-TR3	6	
Q 17, 23, 24	832147				
Q 14, 15, 18,	832139	17856	J2903	7	
Q 20, 21, 52,	832139				
Q 53	832139				
Q 30, 32	844584	17856	SSTH20	2	
Q 31, 33, 35,	806463	04713	MMBT2369T	3	
Q 34	838516	04713	MMBTH81T1	1	
Q 57	698233	04713	2N3906RLRA	1	
R 2	810366	59124	CF1-4VT302J	1	
R 3	573238	59124	CF1-4202JB	1	
R 10	810523	59124	MF50DVT2491F	1	
R 14	851741	19701	5053YL61M90F	1	
R 15	810507	59124	MF50DVT1211F	1	
R 22	697110	59124	CF1-4VT203J	1	
R 26, 27, 69,	810564	91637	CMF55-2002B T-9	6	
R 70, 89, 90	810564				
R 61	810432	59124	CF1-4VT152J	1	
R 67	810531	59124	MF50DVT8060F	1	
R 68	810572	91637	CMF55-4322B T-9	1	
R 72	810390	59124	CF1-4VT201J	1	
R 88	810580	91637	CMF55-5002B T-9	1	
R 91	820381	59124	MF50DVT4121F	1	
R 111	733667	59124	CF1-4VT333J	1	
R 112,113	697102	59124	CF1-4VT103J	2	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-12. All DAC PCA (cont)

REFERENCE DESIGNATOR	S	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERICS----->			--NO--	-CODE-	-OR GENERIC TYPE-----		
T 1		PULSE TRANSFORMER	802892	89536	802892	1	
TP 1, 3, 8-		JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	1SOT1	6	
TP 10, 12			816090				
U 1		* IC, OP AMP, DUAL, LO OFFST VOLT, LO-DRIFT	851704	27014	LF412ACN	1	
U 2, 20		* IC, OP AMP, DUAL, PRECISION, 8-PIN DIP	783696	64155	LT1013CN8	2	
U 5		* IC, OP AMP, POWER, IO=250MA	807917	07263	UA759U1C	1	
U 7		* IC, COMPARATOR, HI-SPEED, PRECISION	822197	64155	LT1016C	1	
U 10		* IC, COMPARATOR, HI-SPEED, 14 PIN DIP	647115	18324	NE522N	1	
U 12, 37		* ISOLATOR, OPTO, LED TO TRANSISTOR, DUAL	454330	50579	ILCT-6-254	2	
U 13		* ISOLATOR, 20 MHZ OPTOCOUPLER	742817	28480	HCPL-2400, OPTION 100	1	
U 19		* IC, OP AMP, DUAL, PRECISION MATCHED	782375	64155	OP227GN	1	
U 22		* IC, OP AMP, JFET INPUT, 22V SUPPLY, DIP	832584	04713	LF356BN	1	
U 24		* IC, OP AMP, PRECISION, JFET INPUT	808097	64155	LT1056CN8	1	
U 25		IC, CMOS, RR A/D CONVERTER	715680	89536	715680	1	
U 26		* IC, OP AMP, DUAL, LO-NOISE, 8 PIN DIP	707976	18324	NE5532N	1	
U 27, 28		* IC, OP AMP, DUAL, JFET IN, HIGH SPEED	855069	64155	LT1057CN8	2	
U 29, 38		* IC, OP AMP, JFET INPUT, 8 PIN DIP	472779	12040	LF356N	2	
U 33, 34		* IC, BIMOS, 8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
VR 1, 4, 31,		* ZENER, UNCOMP, 20.0V, 5%, 6.2MA, 0.4W	810275	04713	1N968BRR1	4	
VR 32		*	810275				
VR 2, 8, 24		* ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	810267	14552	DZ810317D	3	
VR 3		* ZENER, UNCOMP, 16.0V, 7.8MA, 0.4W	822205	04713	1N966BRR1	1	
VR 5		* ZENER, UNCOMP, 6.2V, 5%, 20.0MA, 0.4W	810283	04713	1N753ARR1	1	
VR 6, 11, 30		* ZENER, UNCOMP, 12.0V, 10%, 10.5MA, 0.4W	741074	04713	1N963A	3	
VR 7, 16		* ZENER, UNCOMP, 22.0V, 5%, 5.6MA, 0.4W	811927	04713	1N969BRR1	2	
VR 13		* ZENER, UNCOMP, 13V, 5%, 9.5MA, 0.5W	820456	04713	1N5243BRR1	1	
VR 17, 21		* ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	810325	04713	1N967BRR1	2	
VR 18, 22		* ZENER, UNCOMP, 15.0V, 5%, 8.5MA, 0.4W	820415	04713	1N965BRR1	2	
VR 19, 20, 35,		* ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	4	
VR 36		*	820423				
VR 25		* ZENER, UNCOMP, 3.3V, 10%, 20.0MA, 0.4W	698647	04713	1N746-SR4348RL	1	
VR 29		* ZENER, COMP, 6.4V, +2-3.4%, 2PPM, 1.0MA	810259	04713	SZ2475TA2	1	
VR 33, 34		* ZENER, UNCOMP, 7.5V, 5%, 20.0MA, 0.4W	810291	04713	1N755ARR1	2	
X 1		SOCKET, IC, 40PIN, DUAL WIPE, BEAM TYPE	747170	14329	802-7401642	1	
Z 2		* REF DIVIDER RES NET ASSY TESTED -510A	645341	89536	645341	1	
Z 4		RES, CERM, SIP, 10 PIN, 5 RES, 56K, +-2%	529131	91637	CSC10A-03-563G	1	
Z 5		RES, CERM, SIP, 6 PIN, 5 RES, 510, +-2%	459974	91637	CSC08A-01-511G	1	
Z 8		* RES NET THN F TESTED	809418	89536	809418	1	
Z 10		RES NET THN F TESTED	833830	89536	833830	1	
Z 12		RES, CERM, SIP, 6 PIN, 5 RES, 10K, +-2%	500876	91637	CSC06A-01-103G	1	

An * in 'S' column indicates a static-sensitive part.

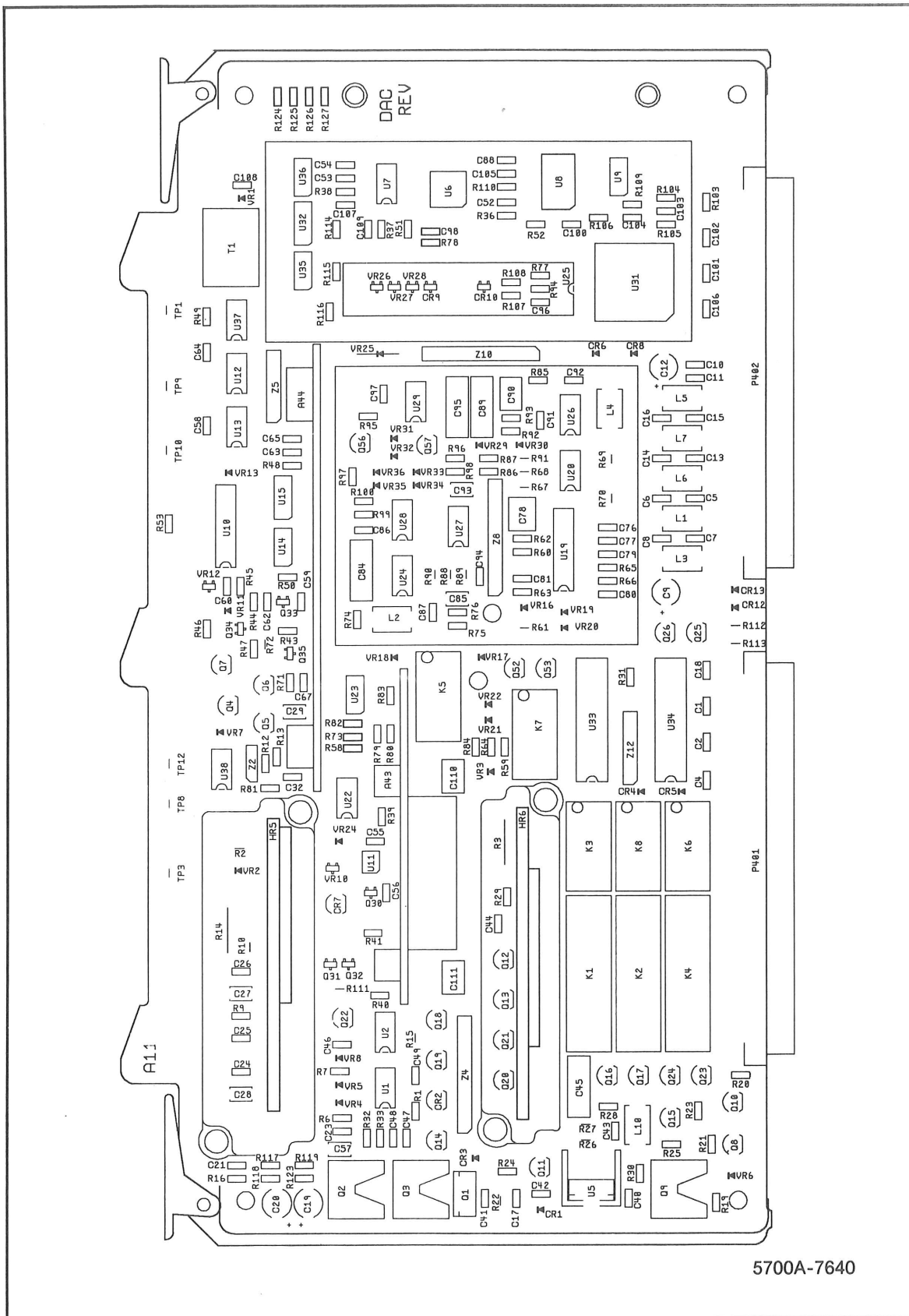


Figure 6-12. A11 DAC PCA

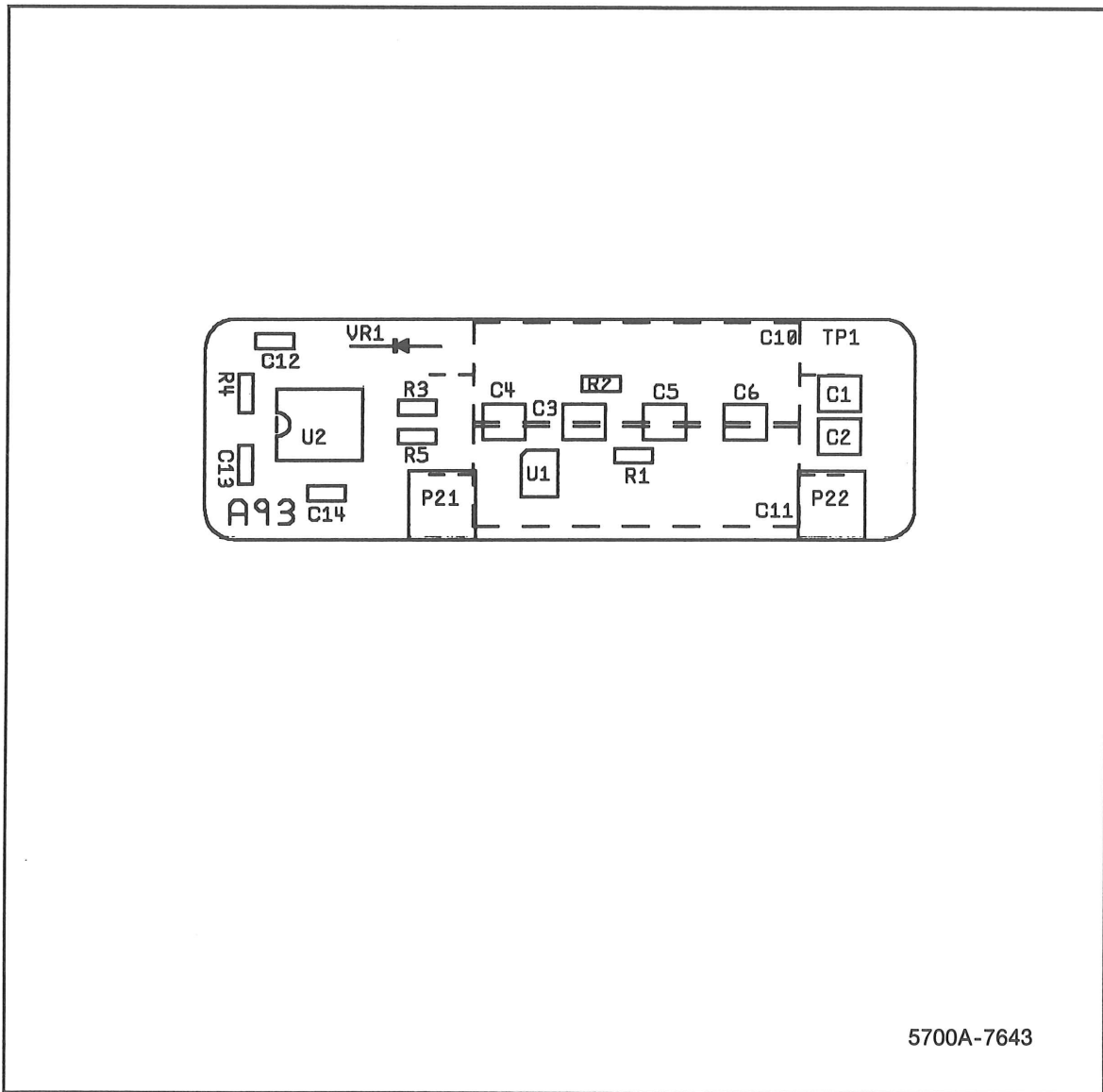
5700A-7640

LIST OF REPLACEABLE PARTS

Table 6-13. A11A1 DAC Filter SIP PCA
(See Figure 6-13.)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
C 1- 6	CAP, POLYES, 0.33UF, +-20%, 50V	853903	68919	MKS02334M5	6	
C 10, 11	CAP, POLYPR, 1UF, +-5%, 50V, HERMETIC	783811	84411	JF136	2	
C 12, 13	CAP, CER, 0.22UF, +80-20%, 50V, Y5V, 1206	740597	51406	GRM42Y5U221Z50VPB	2	
C 14	CAP, CER, 100PF, +-10%, 50V, COG, 1206	740571	04222	12065A101KAT050R	1	
P 21, 22	HEADER, 2 ROW, .100CTR, RT ANG, 6 PIN	806919	22526	68715-406	2	
R 1, 2	* RES, CERM, 11K, +-5%, .125W, 250PPM, 1206	769752	91637	CRCW12061102JB02	2	
R 3, 5	* RES, CERM, 18K, +-5%, .125W, 200PPM, 1206	746636	91637	CRCW12061802JB02	2	
R 4	* RES, CERM, 22K, +-5%, .125W, 200PPM, 1206	746651	59124	RM73B2BJ2202B	1	
U 1	* IC, OP AMP, ULTRA-LOW-NOISE, SOIC	783001	01295	OP07CDR	1	
U 2	* IC, OP AMP, PRECISION, LOW NOISE	782920	64155	LT1007CN8	1	
VR 1	* ZENER, UNCOMP, 15.0V, 5%, 8.5MA, 0.4W	698704	04713	IN965B-SR4348RL	1	

An * in 'S' column indicates a static-sensitive part.



5700A-7643

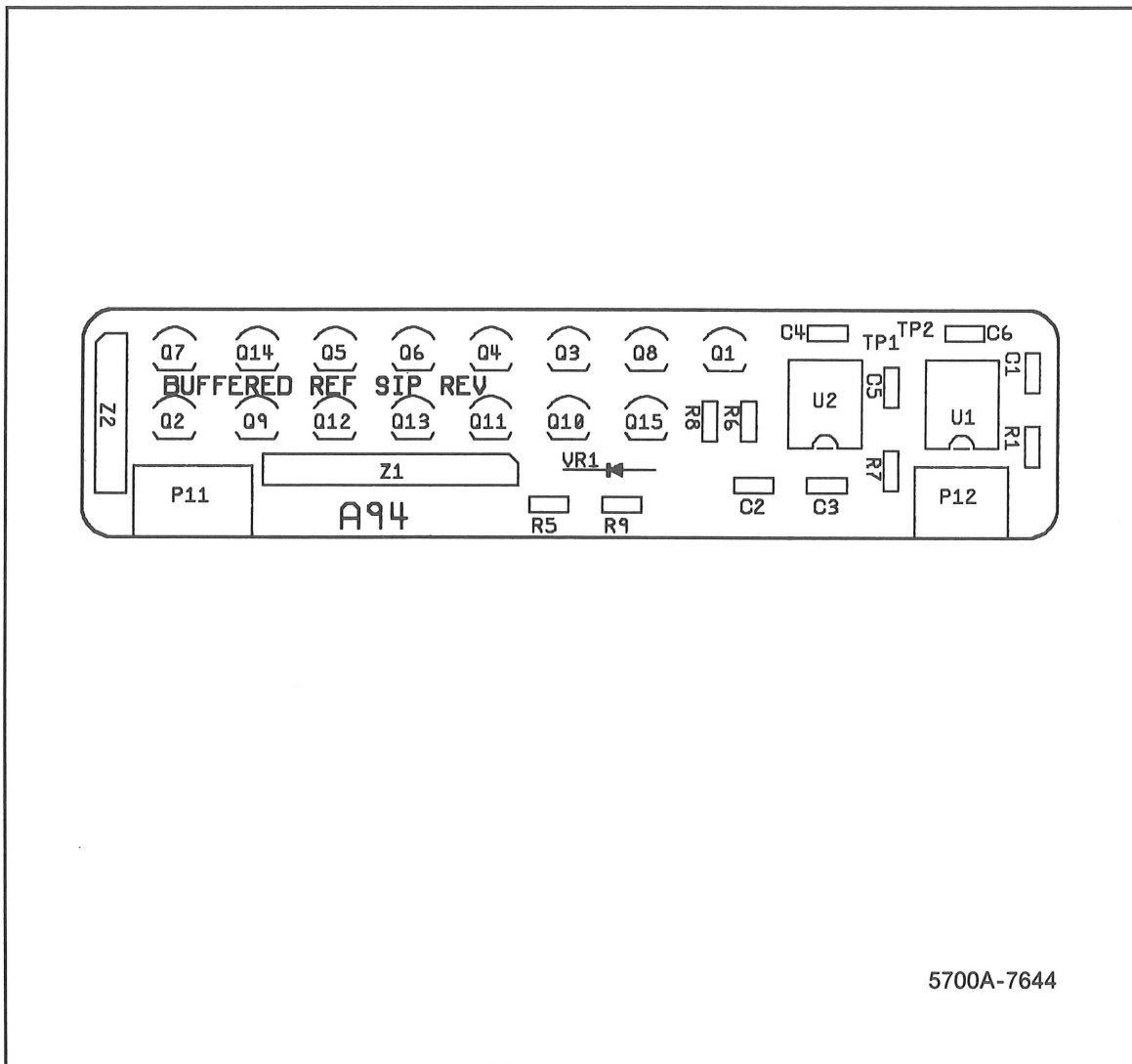
Figure 6-13. A11A1 DAC Filter SIP PCA

LIST OF REPLACEABLE PARTS

Table 6-14. A11A2 DAC Buffered Reference SIP PCA
(See Figure 6-14.)

REFERENCE DESIGNATOR		DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----	S-----	-----	--NO--	-CODE-	--OR GENERIC TYPE----	-----	-E-
C	1, 5	CAP,CER,10PF,+10%,100V,COG,1206	806943	51406	GRMM42-6COG100F100PT	2	
C	2, 3	CAP,CER,0.22UF,+80-20%,50V,Y5V,1206	740597	51406	GRM42Y5U221Z50VPB	2	
C	4, 6	CAP,CER,1000PF,+10%,50V,COG,1206	747378	04222	12065A1001KAT050R	2	
P	11	HEADER,2 ROW,.100CTR,RT ANG,10 PIN	658112	00779	87230-5	1	
P	12	HEADER,2 ROW,.100CTR,RT ANG,8 PIN	424200	00779	87230-4	1	
Q	1- 15	* TRANSISTOR,SI,N-JFET,HI-VOLTAGE,TO-92	832147	17856	J2907-TR3	15	
R	1, 6- 8	* RES,CERM,1K,+5%,.125W,200PPM,1206	745992	59124	RM73B2BJ102B	4	
R	5	* RES,CERM,10,+5%,.125W,200PPM,1206	746214	09969	CRCW1206100JBO2	1	
R	9	* RES,CERM,100K,+1%,.125W,100PPM,1206	769802	59124	RK73H2BF104B	1	
U	1	* IC,OP AMP,DUAL,PRECISION,8-PIN DIP	783696	64155	LT1013CN8	1	
U	2	* IC,OP AMP,DUAL,LO-NOISE,8 PIN DIP	707976	18324	NE5532N	1	
VR	1	* ZENER,UNCOMP,22.0V,5%,5.6MA,0.4W	181073	04713	1N969B	1	
Z	1	RES,CERM,SIP,10 PIN,5 RES,56K,+2%	529131	91637	CSC10A-03-563G	1	
Z	2	RES,CERM,SIP,6 PIN,5 RES,51K,+2%	514042	91637	CSC06A-03-513G	1	

An * in 'S' column indicates a static-sensitive part.



5700A-7644

Figure 6-14. A11A2 DAC Buffered Reference SIP PCA

LIST OF REPLACEABLE PARTS

Table 6-15. A12 Oscillator Control PCA
(See Figure 6-15.)

REFERENCE DESIGNATOR	S	DESCRIPTION	FLUKE STOCK NO	MFRS SPLY CODE	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	N O T E
C 1- 4, 12,		CAP, TA, 4.7UF, +-20%, 25V	807644	56289	199D475X0025BA1	9	
C 14, 16, 18,			807644				
C 48			807644				
C 8, 10		CAP, AL, 2.2UF, +-20%, 50V, SOLV PROOF	769687	62643	KM50VB2R2M45X85LL	2	
C 21		CAP, CER, 10PF, +-10%, 3000V, COG	817049	60705	564CTK302EE100K	1	
C 22, 25		CAP, TA, 330UF, +-20%, 3V	385963	56289	196D337X0004TE4	2	
C 23, 24, 36-		CAP, POLYES, 0.22UF, +-5%, 50V	747519	60935	185.22J005ORCB	27	
C 38, 44- 47,			747519				
C 49, 50, 56,			747519				
C 57, 61, 64,			747519				
C 65, 67, 68,			747519				
C 70- 72, 76-			747519				
C 81			747519				
C 26, 29, 30,		CAP, POLYES, 0.47UF, +-10%, 50V	697409	84411	J1320R47MF10PCT50V	5	
C 42, 60			697409				
C 27, 28, 31,		CAP, POLYES, 0.047UF, +-10%, 50V	820548	60935	185-2/473K0050RAB	5	
C 43, 63			820548				
C 33, 58, 59		CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	3	
C 34, 35, 86,		CAP, TA, 47UF, +-20%, 20V	348516	56289	196D476X0020EA4	4	
C 87			348516				
C 39, 53		CAP, CER, 330PF, +-5%, 50V, COG	697441	04222	SR215A331JAT	2	
C 40, 41		CAP, TA, 10UF, +-20%, 25V	714774	56289	199D106X0025CA1	2	
C 51, 52, 66		CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A821GAT	3	
C 54		CAP, CER, 3.3PF, +0.25PF, 100V, COJ	816678	04222	SR211COJ3R3CAA	1	
C 55		CAP, CER, 6.8PF, +-0.25PF, 50V, COG	715243	51406	RPE122COG689K50V	1	
C 62		CAP, POLYES, 1UF, +-10%, 50V	733089	60935	185/1.00K0050RQB	1	
C 69, 90, 91		CAP, POLYES, 0.01UF, +-10%, 50V	715037	60935	185/.01K0050RQB	3	
C 74		CAP, CER, 3300PF, +-5%, 50V, COG	830612	04222	SR215A332JAT	1	
C 75, 88		CAP, CER, 33PF, +-5%, 50V, COG	714543	04222	SR215A330JAT	2	
C 82, 85		CAP, POLYES, 0.022UF, +-10%, 50V	715268	60935	185-2/.022K0050RQB	2	
C 83		CAP, CER, 150PF, +-10%, 50V, X7R	682377	04222	SR215C151CAA	1	
C 84		CAP, POLYPR, 0.47UF, +-10%, 160V	446807	60935	171/.47K160H	1	
CR 1- 3	*	DIODE, SI, BV= 75.0V, RADIAL INSERTED	659516	03508	1N4448	3	
CR 4, 5	*	DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNAL	408815	28480	HP5082-6265	2	
CR 6- 8	*	DIODE, SI, BV= 75.0V, IO=150MA, 500MW	698720	65940	1N4448	3	
CR 12- 15	*	DIODE, SI, BV= 70.0V, 500 MW	851910	07263	1N4606	4	
H 4- 7		RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
H 13		SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	1	
HS 1		HEAT DIS, RAD, .54X1.25X.35, TO-8	808204	13103	2268B	1	
K 1		RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	1	
K 2- 9		RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VCH284	8	
L 1- 4		CHOKE, 6TURN	320911	89536	320911	4	
M 12		OSCILLATOR THERMAL COVER	797696	89536	797696	1	
MP 8, 9		EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 10		SHIELD, HIGH VOLTAGE CONTROL	761197	89536	761197	1	
MP 14		SPACER, TRANSISTOR MOUNT, DAP, TO-5	837823	07047	10014	1	
P 501, 502		CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2	
Q 1	*	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806497	04713	MPSU07	1	
Q 2	*	TRANSISTOR, SI, 100V, 1W, CASE 152-02	806489	04713	MPSU57	1	
Q 3	*	TRANSISTOR, SI, PNP, SMALL SIG, SELECTED	851977	04713	SPS9432RLRA	1	
Q 4	*	TRANSISTOR, SI, NPN SMALL SIGNAL	853478	04713	MPSH10RLRA	1	
Q 5, 9, 11	*	TRANSISTOR, SI, N-JFET, TO-92	832162	12040	JF832162	3	
Q 6, 7, 12,	*	TRANSISTOR, SI, N-CHAN, TO-92, SWITCH	832139	17856	J2903	5	
Q 18, 20	*		832139				
Q 8, 13	*	TRANSISTOR, SI, N-JFET, UHF/VHF USE	851972	27014	J310	2	
Q 10	*	TRANSISTOR, SI, P-MOS, ZENER PROTECTED	306142	21845	M5141	1	
Q 14	*	TRANSISTOR, SI, NMOS, 1W, 4 PIN DIP	853692	17856	V12948	1	
Q 19	*	TRANSISTOR, SI, N-DMOS FET, TO-72	394122	18324	SD210EE	1	
R 1, 2, 55		RES, CF, 30K, +-5%, 0.25W	574251	65940	R25J303	3	
R 3		RES, MF, 143K, +-1%, 0.125W, 100PPM	719641	59124	MF55D1433F	1	
R 4, 12		RES, CF, 3K, +-5%, 0.25W	573279	59124	CF1-4302JB	2	
R 5, 13, 25,		RES, CF, 1K, +-5%, 0.25W	573170	59124	CF1-4102JB	8	
R 48, 52, 53,			573170				
R 68, 69			573170				
R 6		RES, CF, 750, +-5%, 0.25W	810374	59124	CF1-4VT751J	1	
R 7		RES, CF, 200, +-5%, 0.25W	810390	59124	CF1-4VT201J	1	
R 8- 10		RES, MF, 113K, +-1%, 0.125W, 100PPM	291302	91637	CMF551133F T-1	3	
R 11		RES, CF, 20K, +-5%, 0.25W	697110	59124	CF1-4VT203J	1	
R 14		RES, CF, 22K, +-5%, 0.25W	573451	59124	CF1-4223JB	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-15. A12 Oscillator Control PCA (cont.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
R 15	573329	59124	CF1-4512JB	1	
R 16	641043	59124	CF1-4150JB	1	
R 17, 39	573139	59124	CF1-4511JB	2	
R 18	822189	59124	CF1-4VT470J	1	
R 19	807669	59124	CF1-4VT100J	1	
R 20	379156	91637	CMG-553013F T-9	1	
R 21	573238	59124	CF1-4202JB	1	
R 22, 24, 29, 66	573584	59124	CF1-4104JB	4	
R 23, 30, 33	658963	59124	CF1-4VT104J	3	
R 26	720078	91637	CMF-553163F T-1	1	
R 27, 28	780585	59124	CF1-4VT102J	2	
R 31, 37, 45	838441	91637	CMF-558660B T-2	3	
R 32, 50	643494	59124	CF1-4121JB	2	
R 34	832394	59124	MF55D3611C	1	
R 35, 36, 40, 41	721597	91637	CMF-556493F T-1	4	
R 38, 42	312793	91637	CMF-3573F T-9	2	
R 43, 63- 65	573444	59124	CF1-4203JB	4	
R 44	573246	59124	CF1-4222JB	1	
R 46	573402	59124	CF1-4123JB	1	
R 47	573147	59124	CF1-4561JB	1	
R 49, 54, 56	573394	59124	CF1-4103JB	3	
R 57	720425	91637	CMF-556042F T-1	1	
R 58	719468	91637	CMF-551001F T-1	1	
R 62	573311	59124	CF1-4472JB	1	
R 67	757815	59124	MF50DVT5623F	1	
TP 1- 8	816090	91984	1SOT1	8	
U 1, 3	836262	64762	EL2020CN	2	
U 2, 7	386268	12040	LM318N	2	
U 5, 26	605980	06665	OP-07DP	2	
U 8, 19	586735	17856	DG211CJ	2	
U 9	495192	12040	LF353N	1	
U 10	773101	24355	AD7534KN	1	
U 11, 30, 31	782920	64155	LT1007CN8	3	
U 12	782375	64155	OP227GN	1	
U 13	808105	64762	EL2006CG	1	
U 14, 16	842591	89536	842591	2	
U 15	659748	01295	TL074CN	1	
U 17	248906	04713	MC3346P	1	
U 18	836304	04713	MM74HC4051N	1	
U 20	780650	34371	CP82C55A	1	
U 21, 22	387233	12040	LM339N	2	
U 23, 24	782912	56289	UCN5801A	2	
U 25	428847	04713	MC7805T	1	
VR 1, 2	698696	04713	1N748	2	
VR 3	722926	04713	1N751A	1	
VR 4	325845	04713	1N5342C	1	
VR 5, 6	454595	14552	1N4736A	2	
Z 1	760686	89536	760686	1	
Z 2, 4	655811	89536	655811	2	
Z 3	760645	89536	760645	1	
Z 5	364000	89536	364000	1	
Z 6	414557	91637	CSC08A-01-102G	1	
Z 7, 8	785105	89536	785105	2	
Z 9	544130	91637	MDP16-03-512J	1	
Z 10	573881	91637	CSC08A-03-102G	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

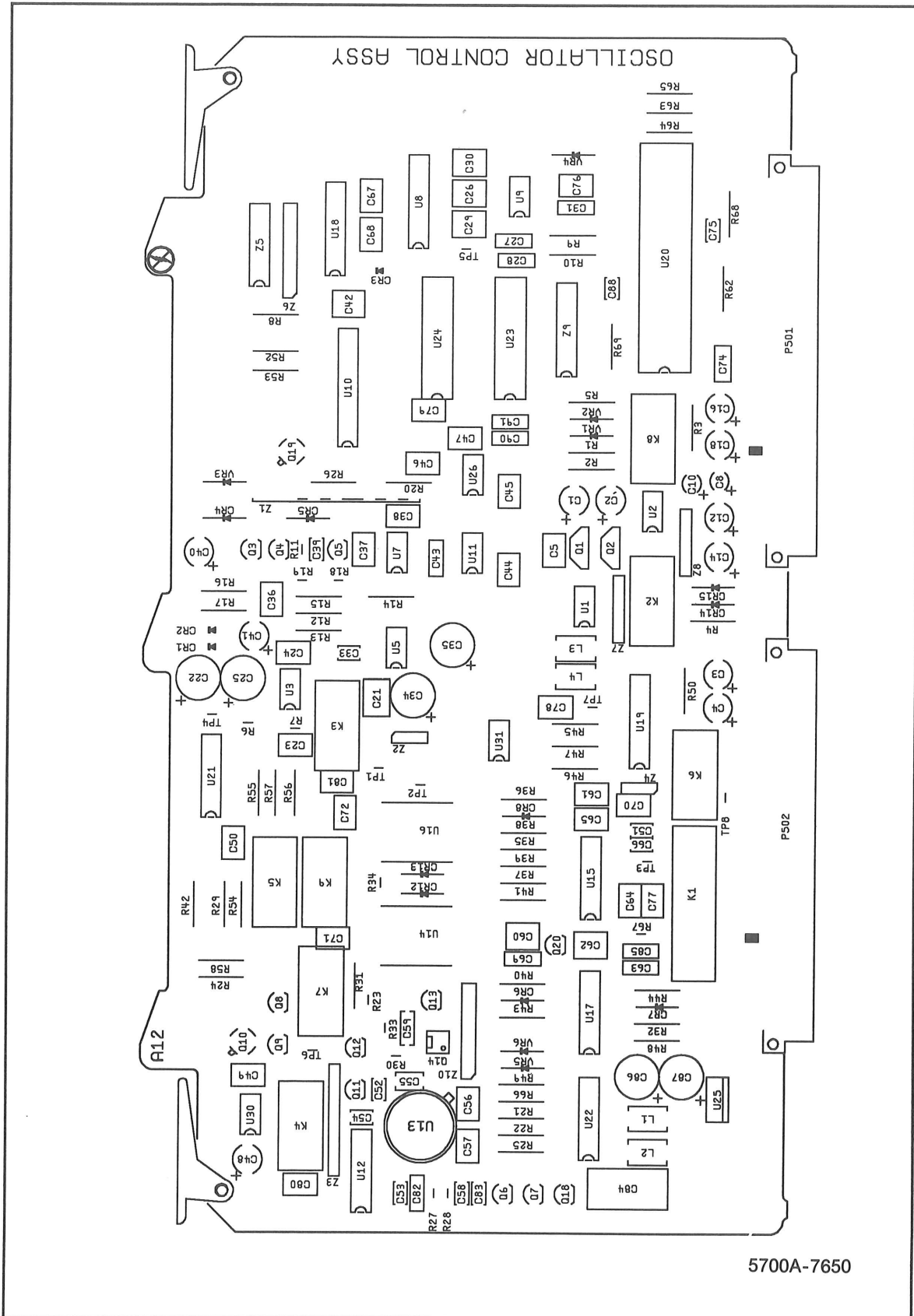


Figure 6-15. A12 Oscillator Control PCA

LIST OF REPLACEABLE PARTS

Table 6-16. A13 Oscillator Output PCA
(See Figure 6-16.)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERIC	S-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
A 1	OSCILLATOR WIDEBAND SMD PCA	761403	89536	761403	1	
C 2- 4, 16,	CAP,POLYES,0.22UF,+5%,50V	747519	60935	185.22/J/0050/R/C/B	33	
C 20, 23, 26-		747519				
C 28, 32, 33,		747519				
C 46, 47, 51,		747519				
C 52, 54, 55,		747519				
C 68- 71, 88-		747519				
C 92,102-104,		747519				
C 110,111,113,		747519				
C 114		747519				
C 5, 14, 30	CAP,CER,15PF,+20%,50V,COG	697524	04222	SR215A150MAT	3	
C 6, 15, 31	CAP,CER,82PF,+2%,50V,COG	714857	04222	SR215A150MAT	3	
C 7, 8	CAP,CER,0.01UF,+10%,100V,X7R	557587	04222	SR21C103MAT	2	
C 17, 29	CAP,CER,2.7PF,+0.25PF,50V,COG	773044	51406	RPE122C0G279K50V	2	
C 19, 34, 85	CAP,CER,56PF,+2%,50V,COG	714378	04222	SR215A560GAT	3	
C 21, 37	CAP,MICA,560PF,+1%,300V	494609	93790	CD15FC561FO	2	
C 22, 38	CAP,POLYCA,6150PF,+1%,50V	800466	84411	JF 125	2	
C 24, 40	CAP,POLYCA,0.0621UF,+1%,50V	800482	84411	JF 152	2	
C 25, 41	CAP,POLYCA,0.622UF,+1%,50V	800474	84411	JF 125	2	
C 44,123	CAP,CER,10PF,+20%,50V,COG	721589	04222	SR215A100MAT	2	
C 45	CAP,POLYPR,0.033UF,+10%,63V	721050	68919	MKP20-336-K-63V	1	
C 48, 84	CAP,AL,10UF,+20%,16V,NP,SOLV PROOF	697177	62643	KME-BP16VB10RM5X11RP	2	
C 49	CAP,AL,470UF,+20%,10V,SOLV PROOF	822387	62643	KME10VB471M8X11RP	1	
C 56- 59	CAP,TA,22UF,+20%,10V	658971	56289	199D226X0010CA1	4	
C 60, 61,108,	CAP,TA,4.7UF,+20%,25V	807644	56289	199D475X0025BA1	4	
C 109		807644				
C 62	CAP,POLYES,0.47UF,+10%,50V	697409	84411	J1320R47MF10PCT50V	1	
C 75	CAP,CER,120PF,+5%,50V,COG	721142	04222	SR215A121JAT	1	
C 76, 77,124,	CAP,CER,1000PF,+20%,50V,X7R	697458	89536	697458	4	
C 125		697458				
C 78, 79	CAP,POLYES,0.01UF,+10%,50V	715037	60935	185-.01-K-0050-R	2	
C 80, 81	CAP,POLYES,0.1UF,+10%,50V	649913	60935	185-2/0.1K0050RAB	2	
C 82, 83	CAP,POLYES,1UF,+10%,50V	733089	60935	185/1.00K0050RGB	2	
C 93- 99,106,	CAP,TA,10UF,+20%,25V	714774	56289	199D106X0025CA1	9	
C 107		714774				
C 100,101,118	CAP,AL,2.2UF,+20%,50V,SOLV PROOF	769687	62643	KM50VB2R2M45X85LL	3	
C 105	CAP,CER,3300PF,+5%,50V,COG	830612	04222	SR215A332JAT	1	
C 112	CAP,CER,4.7PF,+0.25PF,50V,COG	721837	51406	RPE122C0G479K50V	1	
C 115	CAP,CER,6800PF,+5%,100V,COG	816710	04222	SR211A682JAA	1	
C 119,120	CAP,CER,33PF,+5%,50V,COG	714543	04222	SR215A330JAT	2	
C 122	CAP,CER,27PF,+2%,100V,COG	816652	04222	SR211A270GAT	1	
CR 1- 11, 22,	* DIODE,SI,BV= 75.0V,RADIAL INSERTED	659516	03508	1N4448	13	
CR 23	*	659516				
CR 13- 20	* DIODE,SI,N-JFET,CURRENT REG,IF=5.3 MA	852116	17856	J9010-TR3	8	
H 4- 7	RIVET,S-TUB,OVAL,STL,.087,.343	838458		COMMERCIAL	4	
H 9- 12	SCREW,MACH,PH,P,STL,6-32X0.250	152140		COMMERCIAL	4	
HS 1- 3	HEAT DIS,RAD,.54XI.25X.35,TO-8	808204	13103	2268B	3	
HS 4- 7	HEAT DIS,CLIP,.80X.85X.30,CASE 152	800136	13103	6046PB	4	
HS 9, 10	HEAT DIS,SLEEVE,TO-5	380220	13103	1115B	2	
HS 58	HEAT DIS,VERT,.83X.50X.395,TO-5	800144	13103	2272B	1	
K 1	RELAY,ARMATURE,4 FORM C,5V,LATCH	715078	61529	DS4EML2DC5VCH239	1	
K 2- 4	RELAY,ARMATURE,2 FORM C,5V,LATCH	769307	61529	DS2EML2DC5VH284	3	
L 1- 5, 13,	CHOKE,6TURN	320911	89536	320911	7	
L 14		320911				
L 6- 12	CORE,TOROID,FERRITE,.047X.138X.118	321182	02114	56-590-65-4B	7	
L 15	TRANSFORMER, PULSE	660589	89536	660589	1	
MP 1	OSCILLATOR HEAT SINK RETAINER	775296	89536	775296	1	
MP 2, 3	EJECTOR,PWB,NYLON	494724	32559	CP-66	2	
MP 4- 6	SPACER,TRANSISTOR MOUNT,DAP,TO-5	152207	07047	10123-DAP	3	
MP 8	AIR DUCT, OSCILLATOR	802959	89536	802959	1	
MP 9	TAPE,SPONGE,SILICONE,W/LINER,.125X.5W	853387	71643	100S-1/8-500	2	
MP 13- 15	SPACER,TRANSISTOR MOUNT,DAP,TO-5	837823	07047	10014	3	
P 511,512	CONN,DIN41612,TYPE C,RT ANG,64 PIN	807800	28213	7264-50D2TB	2	
Q 6	* TRANSISTOR,SI,N-JFET,TO-92	832162	12040	JF832162	1	
Q 7	* TRANSISTOR,SI,N-DMOS FET,TO-72	394122	18324	SD210EE	1	
Q 8	* TRANSISTOR,SI,NPN,SM SIGNAL,HI-FREQ	272930	04713	2N5943	1	
Q 9	* TRANSISTOR,SI,NPN,SMALL SIGNAL	698225	04713	2N3904RLRA2	1	
Q 10, 11	* TRANSISTOR,SI,100V,1W,CASE 152-02	806497	04713	MPSU07	2	
Q 13	* TRANSISTOR,SI,NPN,HI-CURRENT	402602	04713	MRF531	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-16. A13 Oscillator Output PCA (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N 0 T
-A>-NUMERICS-----S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
Q 14	800201	04713	2N5583	1	
Q 15	698233	04713	2N3906RLRA	1	
Q 16, 17	806489	04713	MPSU57	2	
R 1, 6, 43,	816629	59124	MF50DVT2001F	5	
R 60, 65	816629				
R 7, 9, 11,	810390	59124	CF1-4VT201J	4	
R 18	810390				
R 12, 13, 83	721548	59124	MF55D4991F	3	
R 19, 24, 25,	697102	59124	CF1-4VT103J	7	
R 37, 50, 70,	697102				
R 79	697102				
R 21	810416	59124	CF1-4VT392J	1	
R 22, 40, 64,	780585	59124	CF1-4VT102J	9	
R 67, 69, 72,	780585				
R 108-110	780585				
R 23, 27, 33,	714303	59124	CF1-4VT163J	6	
R 38, 51, 78	714303				
R 26	706663	59124	CF1-4VT912J	1	
R 28	816595	59124	MF50DVT1001F	1	
R 29, 62, 68	658914	59124	MF50DVT1002F	3	
R 32	697110	59124	CF1-4VT203J	1	
R 35, 36, 47,	721571	59124	CF1-4VT472J	13	
R 52, 53, 59,	721571				
R 63, 74, 75,	721571				
R 80- 82, 107	721571				
R 39, 54, 76	757799	59124	CF1-4VT123J	3	
R 41	658963	59124	CF1-4VT104J	1	
R 42	816611	59124	MF50DVT1052F	1	
R 48	747550	59124	CF1-4VT513J	1	
R 49	810424	59124	CF1-4VT271J	1	
R 55, 77	747535	59124	CF1-4VT223J	2	
R 56	772582	59124	MF50CVT3482B	1	
R 57	821777	59124	CF1-4VT433J	1	
R 58	721787	59124	CF1-4VT473J	1	
R 61, 66	810549	59124	MF50DVT7871F	2	
R 71, 73	810366	59124	CF1-4VT302J	2	
R 84, 85	733667	59124	CF1-4VT333J	2	
R 87, 94	810465	59124	CF1-4VT101J	2	
R 88	816637	59124	CF1-4VT47J	1	
R 89, 90, 97,	807669	59124	CF1-4VT100J	4	
R 98	807669				
R 91, 99	640953	59124	CF1-42R7J	2	
R 92, 93, 95,	810473	59124	CF1-4VT3R9J	4	
R 96	810473				
R 100, 101	772061	59124	MF50DVT3012F	2	
S 1	477984	79727	GS-115	1	
TP 1- 10	816090	91984	150T1	10	
U 2	381665	04713	MC7912CT	1	
U 3, 6, 9	808105	64762	EL2006CG	3	
U 5, 7, 11	793885	89536	793885	3	
U 8, 29	386268	12040	LM318N	2	
U 10, 15, 16,	343335	04713	MC1494L	4	
U 19	343335				
U 12, 32, 33	585364	04713	MC74HCT374N	3	
U 17, 27	429886	04713	MC14052BCP	2	
U 18	472779	12040	LF356N	1	
U 20	478354	12040	LM393N	1	
U 21	654640	04713	MC74FOON	1	
U 22	781211	18324	74F112N	1	
U 23	647123	27014	LM319N	1	
U 24	782912	56289	UCN5801A	1	
U 25	836304	04713	MM74HC4051N	1	
U 26	780650	34371	CP82C55A	1	
U 28	722272	24355	AD7528JN	1	
U 31	495192	12040	LF353N	1	
VR 3, 4	810267	14552	DZ810317D	2	
VR 7	810309	04713	1N756ARR1	1	
Z 1	831065	91637	CSC06A-01-393G	1	
Z 2	364000	91637	MDP14-03-103J	1	
Z 3	414557	91637	CSC08A-01-102G	1	
Z 4, 5	513309	91637	CSC08A-03-103G	2	
Z 6	478818	91637	CSC06A-01-362G	1	

An * in 'S' column indicates a static-sensitive part.

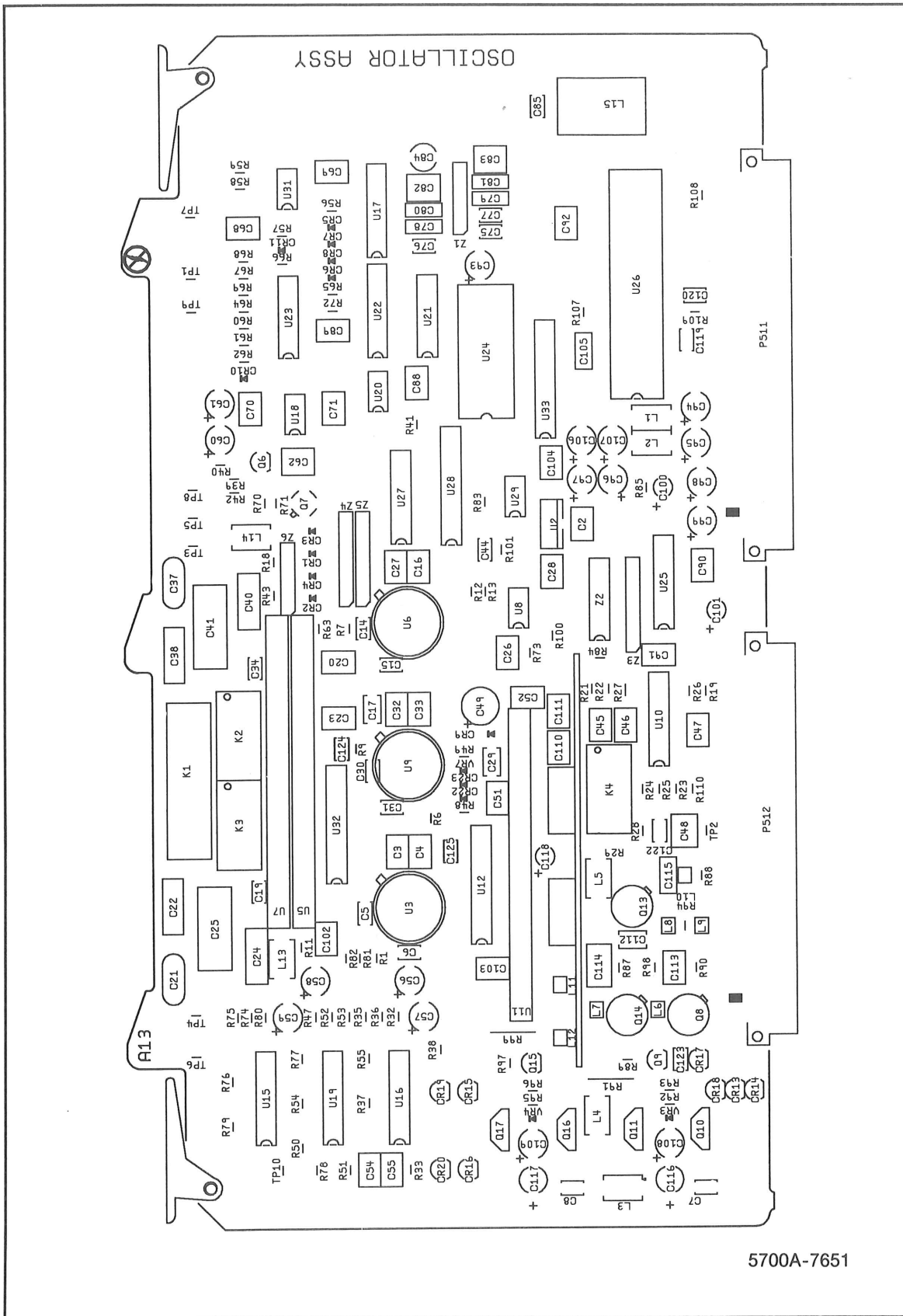


Figure 6-16. A13 Oscillator Output PCA

LIST OF REPLACEABLE PARTS

Table 6-17. A13A1 Oscillator Wideband SMD PCA
(See Figure 6-17.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	-NO--	-CODE-	-OR GENERIC TYPE-----	-E-	
C 1, 3, 4, 6-8, 12, 13	740597	51406	GRM42Y5U221Z50VPB	8	
C 2	740571	04222	12065A101KAT050R	1	
C 5	806943	51406	GRMM426C0G100F100PT	1	
C 9	747360	04222	12065A471KAT050R	1	
C 10	747378	04222	12065A1001KAT050R	1	
C 11	747261	04222	12065C103KAT060R	1	
CR 4-6, 9	742320	02114	BAV99	5	
CR 10	742320				
P 1, 2	806935	22526	68715-412	2	
Q 1	844584	17856	SSTH20	1	
Q 2, 4, 5, 7	845438	04713	MMBTH10	4	
Q 3	742684	04713	MMBT3906T1	1	
Q 6, 8	838516	04713	MMBTH81T1	2	
Q 9	742676	04713	MMBT3904T1	1	
R 1, 9	746461	59124	RM73B2BJ202J	2	
R 2	746503	91637	CRCW1206J2700B02	1	
R 3, 22	746370	59124	RM73B2BJ331B	2	
R 4, 26	746388	59124	RM73B2BJ511B	2	
R 5	746560	59124	RM73B2BJ512KB	1	
R 6, 23, 31	746545	91637	CRCW12063900JB02	3	
R 7, 16, 18, 19, 21, 27-29	746263	59124	RM73B2BJ470B	8	
R 8	740548	59124	RM73B2BJ100KB	1	
R 10	807727	91637	CRCW1206560JB02	1	
R 11, 17	772780	91637	CRCW1206151FB02	2	
R 12	807735	59124	RM73B2BJ270B	1	
R 13	746297	59124	RM73B2BJ101B	1	
R 14	745984	09969	CRCW1206621JB02	1	
R 15	746628	59124	RM73B2BJ153B	1	
R 20	740498	91637	CRCW1206391JB02	1	
R 24	769257	59124	RM73B2BJ911B	1	
R 25	746453	59124	RM73B2BJ182B	1	
R 30	853515	S4821	GF06VT-501	1	
U 1	783001	01295	OP07CDR	1	
U 2	783720	01295	TL071CDR	1	
VR 1, 5-7	782441	04713	MMBZ5234BT1	4	
VR 2	831230	04713	MMBZ5251BT1	1	
VR 3, 4	807008	04713	MMBZ5226T1	2	

An * in 'S' column indicates a static-sensitive part.

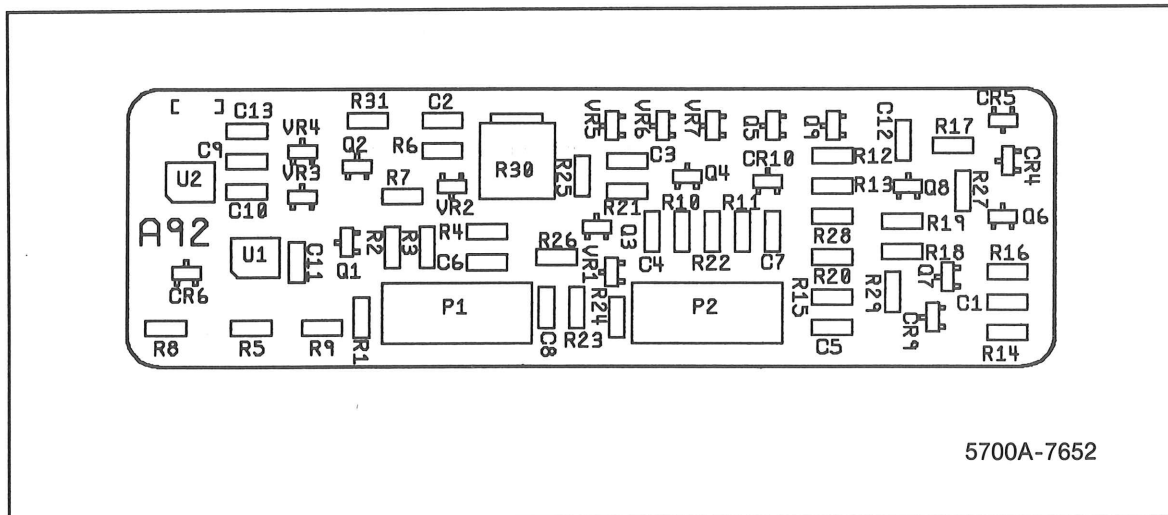


Figure 6-17. A13A1 Oscillator Wideband SMD PCA

LIST OF REPLACEABLE PARTS

Table 6-18. A14 High Voltage Control PCA
(See Figure 6-18.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N 0 T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
C 1	853929	84411	JF154	1	
C 2	821512	84411	JF129	1	
C 3, 4	772855	61058	ECEA1CU471	2	
C 5	733089	60935	185/1.00/K0050RGB	1	
C 6, 7	816512	56289	199D106X9035DA1	2	
C 8, 9	832675	31433	T356G475M050AS	2	
C 10, 20, 24-32	649913	60935	185-2/0.1K0050RAB	11	
C 11- 13	658971	56289	199D226X0010CA1	3	
C 14	697441	04222	SR21A5331JAT	1	
C 15	721142	04222	SR215A121JAT	1	
C 17	832683	60935	185-2/2200K0050RAB	1	
C 18	697417	56289	199D105X0035AA1	1	
C 21, 22	714543	04222	SR215A330JAT	2	
C 23	697458	89536	697458	1	
C 33	816652	04222	SR211A270GAT	1	
CR 1- 4	* 851956	14099	PF20.TR	4	
CR 5	586115	30800	KBL005	1	
CR 6- 12	* 659516	03508	1N4448	7	
H 4- 7	838458		COMMERCIAL	4	
H 8, 9, 11	152140		COMMERCIAL	3	
J 1	845318	27264	39-28-8140	1	
K 1, 2, 4,	733063	51984	MR602-5SR	7	
K 8, 10, 11,	733063				
K 14	733063				
K 3, 5, 6,	831545	61529	DSP1E-DC5V	8	
K 9, 12, 13,	831545				
K 15, 16	831545				
K 7	769307	61529	DS2EML2DC5VH284	1	
L 1	320911	89536	320911	1	
MP 1, 2	494724	32559	CP-66	2	
MP 3	761197	89536	761197	1	
MP 5	530360	06383	SST-1.5M	1	
MP 8	418384	13103	2225B	1	
MP 10, 13	110270	86928	5202-12-31	2	
P 611, 612	807800	28213	7264-50D2TB	2	
Q 2	* 698225	04713	2N3904RLRA2	1	
Q 3, 4	* 852111	17856	J6006-TR3	2	
R 1, 2	159608	01121	EB4705	2	
R 3- 5	109926	01121	GB2041	3	
R 6, 8, 65,	807669	59124	CF1-4VT100JB	4	
R 66	807669				
R 7	747535	59124	CF1-4VT223J	1	
R 9- 12, 64	649962	59124	CF1-4VT155J	5	
R 13	706663	59124	CF1-4VT912J	1	
R 14, 15	810408	59124	CF1-4VT621J	2	
R 17, 46, 55	658963	59124	CF1-4VT104J	3	
R 18	780585	59124	CF1-4VT102J	1	
R 19	817569	59124	MF50DVT1623F	1	
R 20	714287	59124	MF50CVT4123FT	1	
R 21, 24, 33,	697102	59124	CF1-4VT103J	8	
R 34, 47, 56,	697102				
R 68, 69	697102				
R 23	681841	59124	CF1-4VT204J	1	
R 25	747543	59124	CF1-4VT754J	1	
R 26, 44, 45	757807	59124	MF50DVT1003F	3	
R 27, 29	820324	59124	MF50DVT3652F	2	
R 28	655233	59124	MF50DVT2052F	1	
R 30- 32	756429	59124	MF50DVT1822F	3	
R 35- 39, 50,	769984	59124	MF50DVT1963F	7	
R 52	769984				
R 40, 41	772020	59124	MF50DVT4643F	2	
R 42	810432	59124	CF1-4VT152J	1	
R 43	655274	59124	MF50DVT3013F	1	
R 54	810457	59124	CF1-4VT202J	1	
R 57, 58	810374	59124	CF1-4VT751J	2	
R 59	714303	59124	CF1-4VT163J	1	
R 60, 61	697110	59124	CF1-4VT203J	2	
R 62, 63	810366	59124	CF1-4VT302J	2	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-18. A14 High Voltage Control PCA (cont)

REFERENCE DESIGNATOR		FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N 0 T E
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
R 67	RES,CF,3.9,+5%,0.25W	810473	59124	CF1-4VT3R9J	1	
R 70, 71	RES,CC,4.7M,+5%,0.25W	220046	01121	CB4775	2	
T 1	TRANSFORMER, HIGH VOLTAGE	775288	89536	775288	1	
TP 1- 6	JUMPER,WIRE, NONINSUL,0.200CTR	816090	91984	1SOT1	6	
U 1	* IC,OP AMP,DUAL, LO OFFST,VOLT, LO-DRIFT	685164	12040	LF412CN	1	
U 2	* IC,OP AMP,QUAD,JFET INPUT,14 PIN DIP	483438	01295	TL084CN	1	
U 3	* IC,OP AMP,SINGLE,HIGH VOLTAGE	782342	34371	HA2-2645-5	1	
U 4	* IC,CMOS,MONOSTABL/ASTABL MULTIVIBRATR	535575	54590	CD4047BE	1	
U 6, 7	* IC,CMOS,QUAD BILATERAL SWITCH	586735	17856	DG211CJ	2	
U 8	* IC,CMOS,HEX INVERTER,UNBUFFERED	741199	04713	MC74HCU04N	1	
U 9	* IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 10- 13	* IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	4	
U 14	* IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
VR 1	* ZENER,UNCOMP,6.8V,5%,20.0MA,0.4W	820431	04713	1N754ARR1	1	
VR 2, 3	* DIODE,TRANS SUPPRESSOR,400V,5%	845003	24444	1N6456A	2	
VR 4, 5	* ZENER,UNCOMP,16.0V,5%,15.5MA,1.0W	313221	04713	1N4745ARL	2	
VR 6, 7	* ZENER,UNCOMP,3.3V,5%,20.0MA,0.4W	820423	04713	1N746ARR1	2	
Z 1	RES,CERM,SIP,8 PIN,7 RES,10K,+2%	412924	91637	CSC08A-01-103G	1	

An * in 'S' column indicates a static-sensitive part.

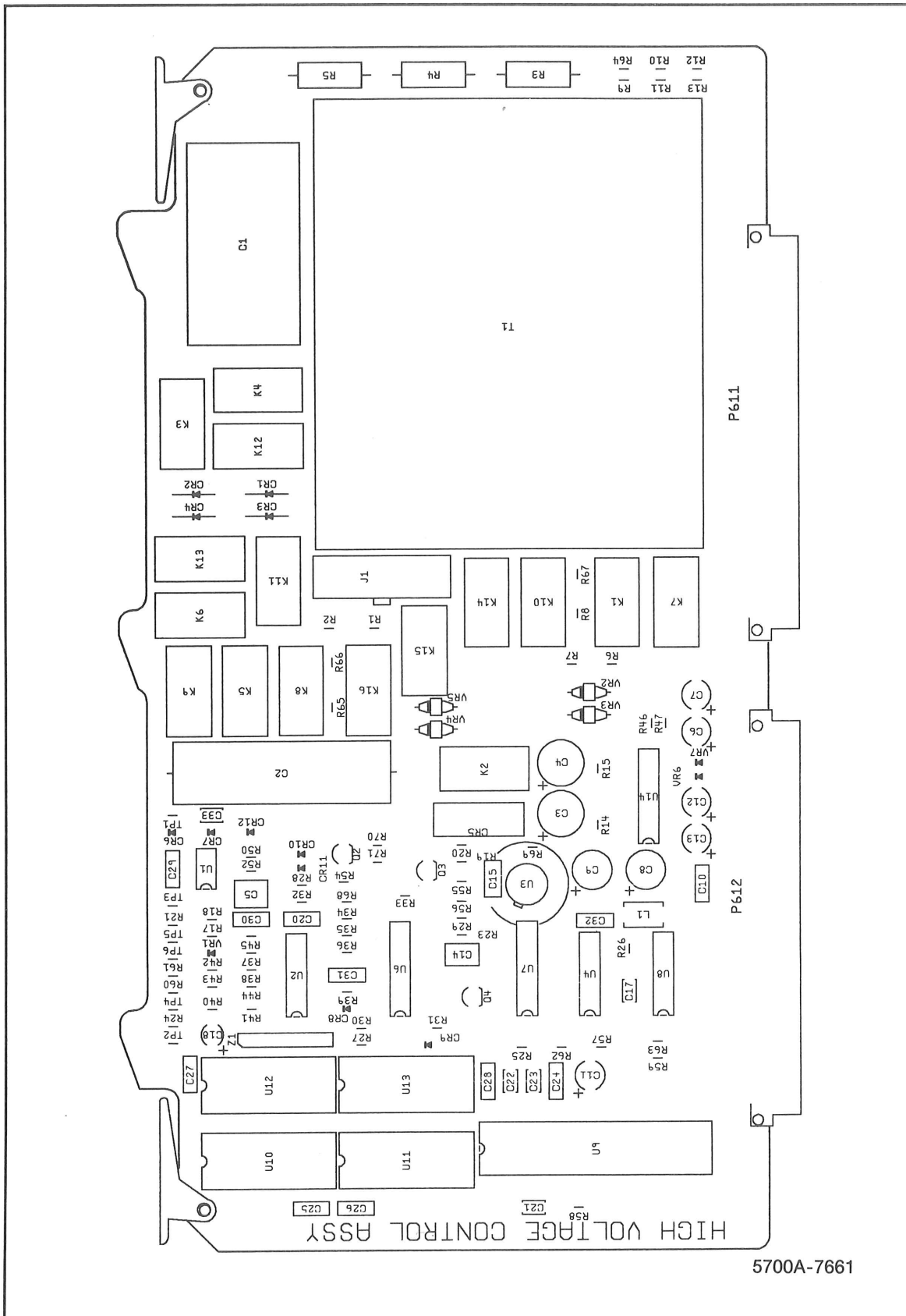


Figure 6-18. A14 High Voltage Control PCA

LIST OF REPLACEABLE PARTS

Table 6-19. A15 High Voltage/High Current PCA
(See Figure 6-19.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER OR GENERIC TYPE	TOT QTY	N O T E
-A>-NUMERICS-----> S-----	DESCRIPTION-----	-NO--	-CODE-	-OR	-E-
C 2, 22, 29,	CAP, POLYES, 0.01UF, +-10%, 50V	715037	60935	185-2/.01K0050R	4
C 42		715037			
C 4	CAP, POLYPR, 0.022UF, +-5%, 1500V	806968	40402	MKP1841-322/134	1
C 5, 15- 17,	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1K0050RAB	17
C 20, 21, 23-		649913			
C 28, 32, 33,		649913			
C 35, 38, 40		649913			
C 6	CAP, POLYES, 0.047UF, +-10%, 50V	820548	60935	185-2/473K0050RAB	1
C 7	CAP, CER, 180PF, +-2%, 50V, COG	820522	04222	SR215A181GAT	1
C 8	CAP, CER, 680PF, +-5%, 50V, COG	743351	04222	SR215A681JAT	1
C 10	CAP, CER, 82PF, +-2%, 50V, COG	714857	04222	SR215A820GAT	1
C 11	CAP, CER, 47PF, +-20%, 50V, COG	706705	04222	SR215A470MAT	1
C 12, 13, 43	CAP, POLYES, 0.47UF, +-10%, 50V	697409	84411	J1320R47MF10PCT50V	3
C 14, 19	CAP, TA, 2.2UF, +-10%, 35V	697433	56289	199D225X9035BF	2
C 18	CAP, CER, 100PF, +-5%, 50V, COG	831495	04222	SR225A101JAT	1
C 30, 31, 37,	CAP, TA, 10UF, +-20%, 35V	816512	56289	199D106X9035DA1	4
C 39		816512			
C 34	CAP, TA, 22UF, +-20%, 10V	658971	56289	199D226X0010CA1	1
C 41	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22/K0050RCB	1
CR 1, 4, 11-	* DIODE, SI, BV= 75.0V, IO=150MA, 500MW	698720	65940	1N4448	8
CR 16		698720			
CR 5, 6, 9,	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940	1N4002A	6
CR 10, 22, 23		742874			
CR 17, 18, 20,	* DIODE, SI, N-JFET, CURRENT REG, IF=5.3 MA	852116	17856	J9010-TR3	4
CR 21		852116			
CR 19	* DIODE, SI, N-JFET, CURRENT REG, IF=1.0 MA	852124	17856	J9004-TR3	1
H 1, 2	SCREW, MACH, PH, P, STL, 6-32, .500	152173		COMMERCIAL	2
H 4	* HYBRID ASSEMBLY, TESTED	813444	89536	813444	1
H 6- 10, 21	SCREW, MACH, PH, P, STL, 6-32X0.250	152140		COMMERCIAL	6
H 17- 20	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4
HR 7	* HIGH VOLTAGE DC HYBRID	775254	89536	775254	1
K 1	RELAY, ARMATURE, 4 FORM C, 5V, LATCH	715078	61529	DS4EML2DC5VCH239	1
K 2, 3	RELAY, ARMATURE, 2 FORM C, 5V, LATCH	769307	61529	DS2EML2DC5VH284	2
K 4, 5, 8,	RELAY, ARMATURE, 2 FORM C, 5V	733063	51984	MR602-5SR	5
K 9, 12		733063			
K 6, 7, 10,	RELAY, ARMATURE, 1 FORM A/1 FORM B, 5VDC	831545	61529	DSP1E-DC5V	5
K 11, 14		831545			
L 4, 5	CHOKE, 6TURN	320911	89536	320911	2
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2
MP 3	SHIELD, HIGH VOLTAGE, REAR	791921	89536	791921	1
MP 4	MOLDED COVER, REFERENCE HYBRID	797746	89536	797746	1
MP 5	MOLDED COVER, HYBRID, R-NET	775619	89536	775619	1
MP 6- 9	INSERT, STANDOFF, BROACH, SNAP TOP, 1.062	832469	24347	KSSA-156-34	4
MP 10	THERMAL INSULATOR, HIGH VOLTAGE	797829	89536	797829	1
MP 16- 19	SPACER, TRANSISTOR MOUNT, DAP, TO-5	152207	07047	10123-DAP	4
MP 22	HIGH VOLTAGE CLAMP BAR	760850	89536	760850	1
P 601, 602	CONN, DIN41612, TYPE C, RT ANG, 64 PIN	807800	28213	7264-50D2TB	2
Q 3, 13	* TRANSISTOR, SI, NPN, SMALL SIGNAL	346916	07263	2N2219A	2
Q 4, 15, 22,	* TRANSISTOR, SI, NPN, SMALL SIGNAL	698225	04713	2N3904RLRA2	4
Q 23		698225			
Q 6, 12	* TRANSISTOR, SI, PNP, SMALL SIGNAL	402586	04713	2N2905A	2
Q 8, 18	* TRANSISTOR, SI, BV=40V, 40W, TO-220	369660	04713	TIP32T	2
Q 9, 19	* TRANSISTOR, SI, BV= 60V, 65W, TO-220	386128	04713	TIP102T	2
Q 10	* TRANSISTOR, SI, P-JFET, TO-92	852111	17856	J6006-TR3	1
Q 11	* TRANSISTOR, SI, BV=100V, 2W, TO-220	454041	04713	MJE15029	1
Q 14	* TRANSISTOR, SI, BV=100V, 40W, TO-220	454033	04713	MJE15028	1
Q 16, 24	* TRANSISTOR, SI, PNP, T092	698233	04713	2N3906RLRA	2
Q 20, 21	* TRANSISTOR, SI, N-JFET, LOW IGSS, RAD T&R	707703	12040	SX53025	2
R 1, 72	RES, CF, 1K, +-5%, 0.25W	573170	59124	CF1-4102JB	2
R 2, 15, 39	RES, CF, 100K, +-5%, 0.25W	573584	59124	CF1-4104JB	3
R 4, 11, 51,	RES, CF, 100, +-5%, 0.25W	573014	59124	CF1-4101JB	9
R 53, 61- 64,		573014			
R 74		573014			
R 5	RES, CF, 1.5K, +-5%, 0.25W	810432	59124	CF1-4VT152J	1
R 6, 9	RES, CF, 1M, +-5%, 0.25W	573691	59124	CF1-4105JB	2
R 7	RES, CF, 51K+-5%, 0.25W	747550	59124	CF1-4VT513J	1
R 8, 19	RES, CF, 3K, +-5%, 0.25W	573279	59124	CF1-4302JB	2
R 10	RES, CF, 820, +-5%, 0.25W	574970	59124	CF1-4821JB	1
R 12	RES, CF, 33K, +-5%, 0.25W	733667	59124	CF1-4VT333J	1

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-19. A15 High Voltage/High Current PCA (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT	N O T
-A>-NUMERICS--> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
R 13	772319	59124	MF50DVT3482F	1	
R 14, 16, 21,	573394	59124	CF1-4103JB	10	
R 27, 28, 40,	573394				
R 44, 52, 54,	573394				
R 71	573394				
R 17, 41	573311	59124	CF1-4472JB	2	
R 18	573451	59124	CF1-4223JB	1	
R 20	573212	59124	CF1-4152JB	1	
R 22	641118	59124	CF1-4163JB	1	
R 23, 24, 60,	572941	59124	CF1-4100JB	4	
R 65	572941				
R 25, 26	832097	91637	CMF5514R3F T-1	2	
R 29, 30	573378	59124	CF1-4822JB	2	
R 31, 32	169854	01121	EB2025	2	
R 33- 35	108415	01121	EB4711	3	
R 36	572982	59124	CF1-4470JB	1	
R 37, 38	294892	91637	CMF558250F T-1	2	
R 42, 43, 45,	719476	91637	CMF551002F T-1	4	
R 46	719476				
R 47	641084	59124	CF1-4161JB	1	
R 48, 50	347476	91637	CMF552211F T-1	2	
R 56, 69	719799	91637	CMF551910F T-1	2	
R 57, 68, 77,	255679	05347	MS2N1011ROH	4	
R 78	255679				
R 58, 67	641159	59124	CF1-4334JB	2	
R 59, 66	643783	59124	CF1-4680JB	2	
R 73, 75	573238	59124	CF1-4202JB	2	
R 76	348730	59124	CF1-43R3JB	1	
R 79, 82	780585	59124	CF1-4VT102J	2	
R 80, 83	721571	59124	CF1-4VT472J	2	
R 81, 84	697102	59124	CF1-4VT103J	2	
TP 1, 3- 11	816090	91984	150T1	10	
TP 2	170480	74970	105-752	1	
U 1	832584	04713	LF356BN	1	
U 2, 4, 5	472779	12040	LF356N	3	
U 3	685164	12040	LF412CN	1	
VR 1, 2, 5,	313221	04713	1N4745ARL	4	
VR 6	313221				
VR 3, 4	832576	04713	1N968B	2	
VR 7, 8	698712	04713	1N966B-SR4348RL	2	
Z 5	761288	89536	761288	1	
Z 6	761296	89536	761296	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

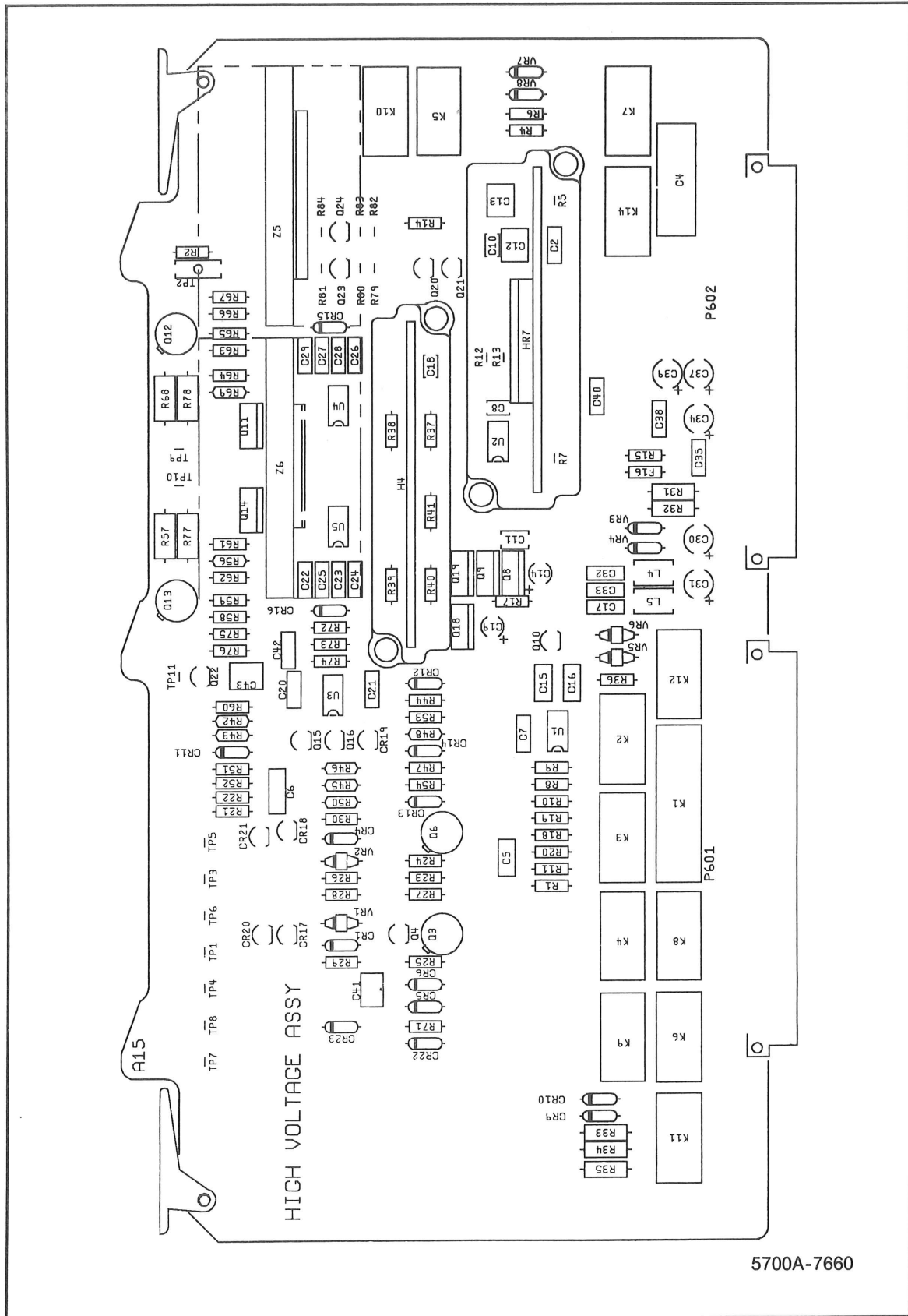


Figure 6-19. A15 High Voltage/High Current PCA

LIST OF REPLACEABLE PARTS

Table 6-20. A16 Power Amplifier PCA
(See Figure 6-20.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERIC-----S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	
A 1	775320	89536	775320	1	
C 1, 2, 63	817049	60705	564CTK302EE100K	3	
C 3	170431	93790	CD19FD561J0	1	
C 4, 28	407403	56289	562C25UAA501AJ203	2	
C 6, 17, 23	817023	60705	561CCOGRE102EE220K	3	
C 7, 24, 43	697458	89536	697458	3	
C 8, 13, 16, 20, 47, 49, 60, 61, 68-	747519	60935	185.22/J0050RCB	12	
C 71	747519				
C 9, 21, 31-	807610	56289	199D156X0020DA1	6	
C 34	807610				
C 10, 25	697417	56289	199D105X0035AA1	2	
C 11	714832	04222	SR215A220GAT	1	
C 12	757096	51406	DD10X-90B	1	
C 15	816991	60705	562C25URE501AG103Z	1	
C 18	485383	59660	831-085-C0J0-689B	1	
C 19	831495	31433	C330C101J5G5CA	1	
C 22	175208	93790	CD19CD19CD020D0	1	
C 26	832709	60705	564CZ5UTK302EE102M	1	
C 27, 78, 79	782524	62643	SM450VB3R3M12X24LDV	3	
C 40	733089	60935	185/1.00/K0050RAB	1	
C 41	557504	84411	JF150	1	
C 42	733071	04222	SR215A100GAT	1	
C 45	697433	31433	T356E225K035AS	1	
C 48, 72	715235	59660	8101-50-M7J-129B	2	
C 57	816983	60705	561CR3LRE102EF101K	1	
C 65, 67	807644	56289	199D475X0025BA1	2	
C 73	105676	60705	562CBZ501AK503ZA32	1	
C 74	649913	60935	185-2/0.1K0050RAB	1	
C 75	820548	60935	185-2/473K0050RAB	1	
C 80, 81	697409	84411	J1320R47MF10PCT50V	2	
C 82	713875	72982	RPE122-901COG100G50V	1	
CR 1- 5, 7, 10, 12- 14, 16, 20, 21, 23- 25, 27, 29- 31, 61- 67	659516	03508	1N4448	27	
CR 8, 9	820449	65940	1N4002A-T20 (A)	2	
CR 18, 19	844647	07263	FDH300	2	
CR 33, 68	852116	17856	J9010-TR3	2	
CR 53	334839	17856	J9013	1	
H 1, 2	152173	COMMERCIAL		2	
H 3, 4	114223	COMMERCIAL		2	
H 10, 48, 59, 60	152165	COMMERCIAL		4	
H 13- 16	838458	COMMERCIAL		4	
HR 8	775437	89536	775437	1	
K 1, 2	715078	61529	DS4EML2DC5VCH239	2	
K 3, 4	769307	61529	DS2EML2DC5VH284	2	
K 10- 17	733063	51984	MR602-5SR	8	
L 1- 3	320911	89536	320911	3	
L 10	413856	89536	413856	1	
L 12	417196	89536	417196	1	
M 17	797696	89536	797696	1	
MP 3	791939	89536	791939	1	
MP 4	775619	89536	775619	1	
MP 5- 8	418384	13103	2225B	4	
MP 9- 12	807347	OCLN7	AD42H	4	
MP 20- 23	152207	07047	10123-DAP	4	
MP 43, 44	494724	32559	CP-66	2	
MP 45- 47, 61-	152140	COMMERCIAL		7	
MP 64	152140				
MP 49	803007	89536	803007	1	
MP 50	791921	89536	791921	1	
MP 51- 54	844837	06915	IEC-T0-220-18	4	
MP 55	791988	89536	791988	1	
MP 56, 57	803015	89536	803015	2	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-20. A16 Power Amplifier PCA (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A>-NUMERICS-----> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
MP 58	775601	89536	775601	1	
P 701, 702	807800	28213	7264-50D2TB	2	
Q 1, 3	782540	04713	MTP2N50	2	
Q 2	851972	27014	J310	1	
Q 4, 7, 32,	698225	04713	2N3904RLRA2	6	
Q 54, 60, 62	698225				
Q 5	272930	04713	2N5943	1	
Q 6	844993	55464	MPS6522	1	
Q 8	394122	18324	SD210EE	1	
Q 9, 16	853478	04713	MPSH10RLRA	2	
Q 10	402578	04713	2N5160	1	
Q 11	831446	04713	MPS3640RLRA	1	
Q 12, 14	783753	59640	VN0550N2	2	
Q 13	782508	59640	VPO550N3	1	
Q 15, 17	782482	04713	MTP2P50	2	
Q 31	640516	17856	V11809	1	
Q 33, 34	707703	12040	SX53025	2	
Q 35	386128	04713	TIP12T	1	
Q 38	369660	04713	TIP32T	1	
Q 39, 40, 50,	782565	59640	VN0104N3	6	
Q 51, 57, 58	782565				
Q 61	698233	04713	2N3906RLRA	1	
R 1	706663	59124	CF1-4VT912J	1	
R 3, 4, 81-	369371	19701	5053RC1003B	5	
R 83	369371				
R 5	772061	59124	MF50DVT3012F	1	
R 6	747550	59124	CF1-4VT513J	1	
R 7	714998	59124	MF50DVT1504F	1	
R 8, 86	733972	59124	MF50CVT1002B	2	
R 9, 10, 16,	816595	59124	MF50DVT1001F	10	
R 33, 40, 50,	816595				
R 59, 115, 148,	816595				
R 149	816595				
R 11, 12	162529	91637	CMF1652F T-1	2	
R 13	247270	91637	CMF651742F T-1	1	
R 14, 73, 137	821777	59124	CF1-4VT433J	3	
R 15, 19, 52,	109629	01121	GB6831	4	
R 57	109629				
R 17, 53	721548	59124	MF55D4991F	2	
R 18, 23, 54,	697102	59124	CF1-4 VT 103J	8	
R 56, 89, 90,	697102				
R 134, 135	697102				
R 20	810416	59124	CF1-4VT392J	1	
R 22, 109, 133	817577	59124	CF1-4VT431J	3	
R 24, 138	810390	59124	CF1-4VT201J	2	
R 25	810374	59124	CF1-4VT751J	1	
R 26, 116, 129	721571	59124	CF1-4VT472J	3	
R 27	108597	01121	EB1025	1	
R 30	830596	59124	CF1-4VT331J	1	
R 31	658963	59124	CF1-4VT104J	1	
R 32	810366	59124	CF1-4VT302J	1	
R 34, 47	649970	59124	CF1-4VT105J	2	
R 35, 74, 139	810382	59124	CF1-4VT200J	3	
R 36	822189	59124	CF1-4VT470J	1	
R 37	757799	59124	CF1-4VT123J	1	
R 38, 118	721787	59124	CF1-4VT473J	2	
R 41, 51, 55	109926	01121	GB2041	3	
R 46, 108, 110-	810465	59124	CF1-4VT101J	10	
R 113, 123, 141,	810465				
R 151, 152	810465				
R 58	631366	59124	CF1-4330JB	1	
R 61	747543	59124	CF1-4VT754J	1	
R 84	655266	59124	MF50DVT2212F	1	
R 85	221994	01121	CB2765	1	
R 87	832055	91637	CMF5584R5F T-1	1	
R 88, 91, 97,	820399	59124	MF50DVT10R0F	4	
R 98	820399				
R 92	682575	89536	682575	1	
R 117	697599	59124	CF1-4VT243J	1	
R 120	159608	01121	EB4705	1	
R 125	810457	59124	CF1-4VT202J	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-20. A16 Power Amplifier PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERICS----->	S-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
R 126,128	RES,CF,620,+5%,0.25W	810408	59124	CF1-4VT621J	2	
R 132	RES,MF,20K,+0.1%,0.25W,25PPM	810564	91637	CMF552002B T-9	1	
R 142	RES,CF,200K,+5%,0.25W	681841	59124	CF1-4VT204J	1	
R 143	RES,CF,300K,+5%,0.25W	732818	59124	CF1-4VT304J	1	
R 144	RES,CF,1K,+5%,0.25W	780585	59124	CF1-4VT102J	1	
R 146,147	RES,CF,2.4,+5%,0.25W	348508	80031	5043C2002R40J	2	
R 150	RES,CF,15,+5%,0.25W	641043	59124	CF1-4150JB	1	
TP 1- 5, 7-	JUMPER,WIRE,NONINSUL,0.200CTR	816090	91984	1SOT1	14	
TP 13, 16, 17		816090				
TP 6	SOCKET,SINGLE,PWB,FOR 0.080 PIN	170480	74970	105-752	1	
TP 14	SOCKET,SINGLE,PWB,FOR 0.080 PIN	149138	74970	105-0757	1	
TP 15	SOCKET,SINGLE,PWB,FOR 0.080 PIN	149120	74970	105-0754	1	
U 1	* IC,OP AMP,PRGRBL OUT CURRNT,8 PIN DIP	418913	27014	LM4250CN	1	
U 2, 5	* IC,CMOS,QUAD BILATERAL SWITCH	586735	17856	DG211CJ	2	
U 4	* IC,OP AMP,LOW NOISE,SELECTED SR	807024	64155	LT1022CN8	1	
U 7	* IC,OP AMP,JFET INPUT,22V SUPPLY,DIP	832584	04713	LF356BN	1	
U 8	* IC,CMOS,HEX INVERTER	381848	02735	CD4049AE	1	
U 9	* IC,OP AMP,CHOPPER STABLIZED,8 PIN PKG	831263	64155	LT1052CN8	1	
U 10	* IC,BPLR,FAHRENHEIT TEMPERTURE SENSOR	845156	27014	LM34CZ	1	
VR 6, 11, 19,	* ZENER,UNCOMP,10.0V,5%,12.5MA,0.4W	810267	14552	DZ810317D	7	
VR 22, 26, 28,	*	810267				
VR 32	*	810267				
VR 8, 9, 61,	* ZENER,UNCOMP,3.3V,5%,20.0MA,0.4W	820423	04713	1N746ARR1	4	
VR 62	*	820423				
VR 15	* ZENER,UNCOMP,18.0V,5%,7.0MA,0.4W	810325	04713	1N967BRR1	1	
VR 18	* ZENER,UNCOMP,15.0V,5%,8.5MA,0.4W	820415	04713	1N965BRR1	1	
VR 51, 52, 57,	* ZENER,UNCOMP,6.8V,5%,20.0MA,0.4W	820431	04713	1N754ARR1	4	
VR 58	*	820431				
VR 64	* ZENER,UNCOMP,24.0V,5%,20MA,0.4W	810317	04713	1N970BRR1	1	
VR 65	* ZENER,UNCOMP,12.0V,10%,10.5MA,0.4W	741074	04713	1N963A	1	
Z 1	* RES,NET,THN F. 396K,(2)+500/5PPM	764399	89536	764399	1	

An * in 'S' column indicates a static-sensitive part.

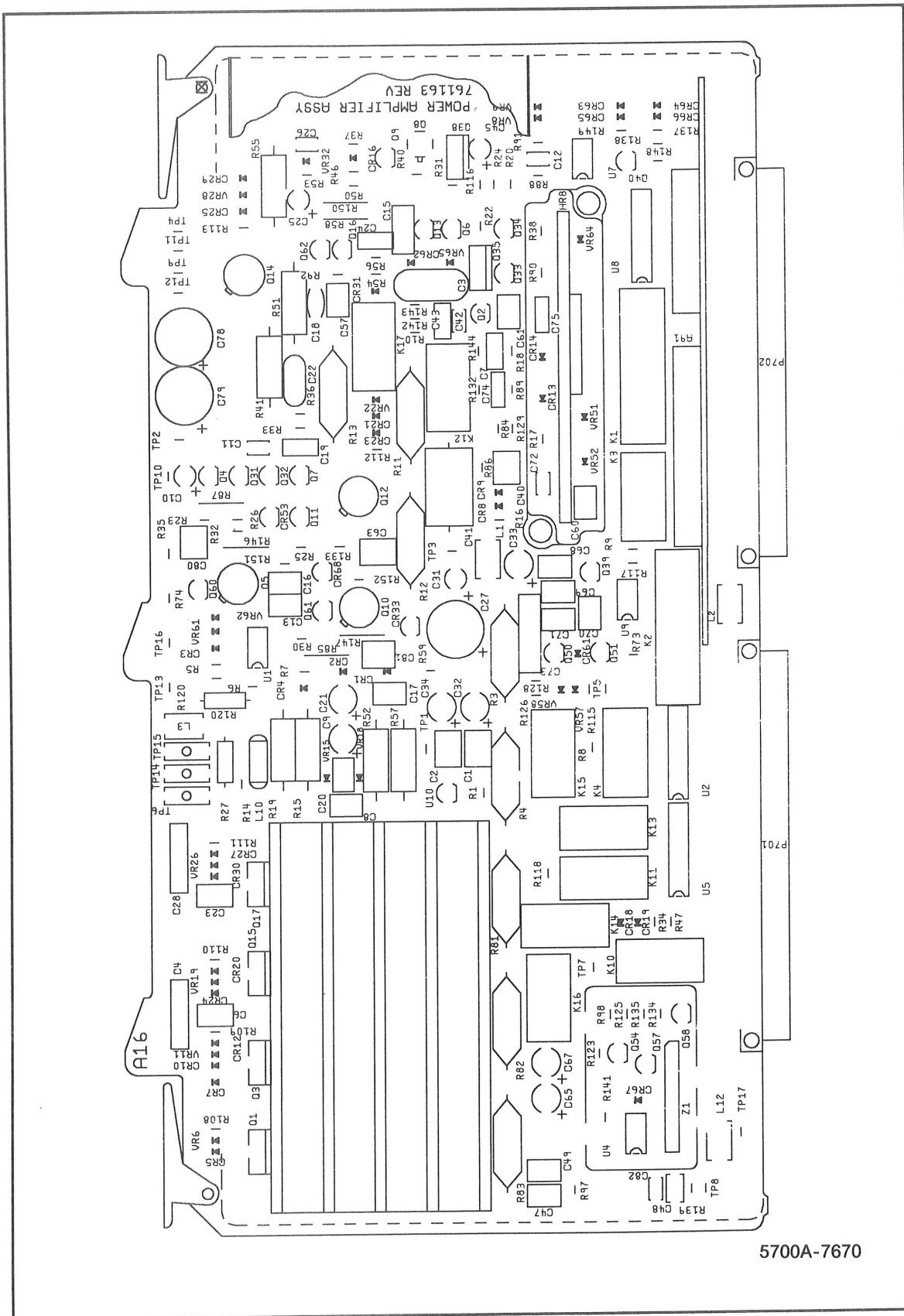


Figure 6-20. A16 Power Amplifier PCA

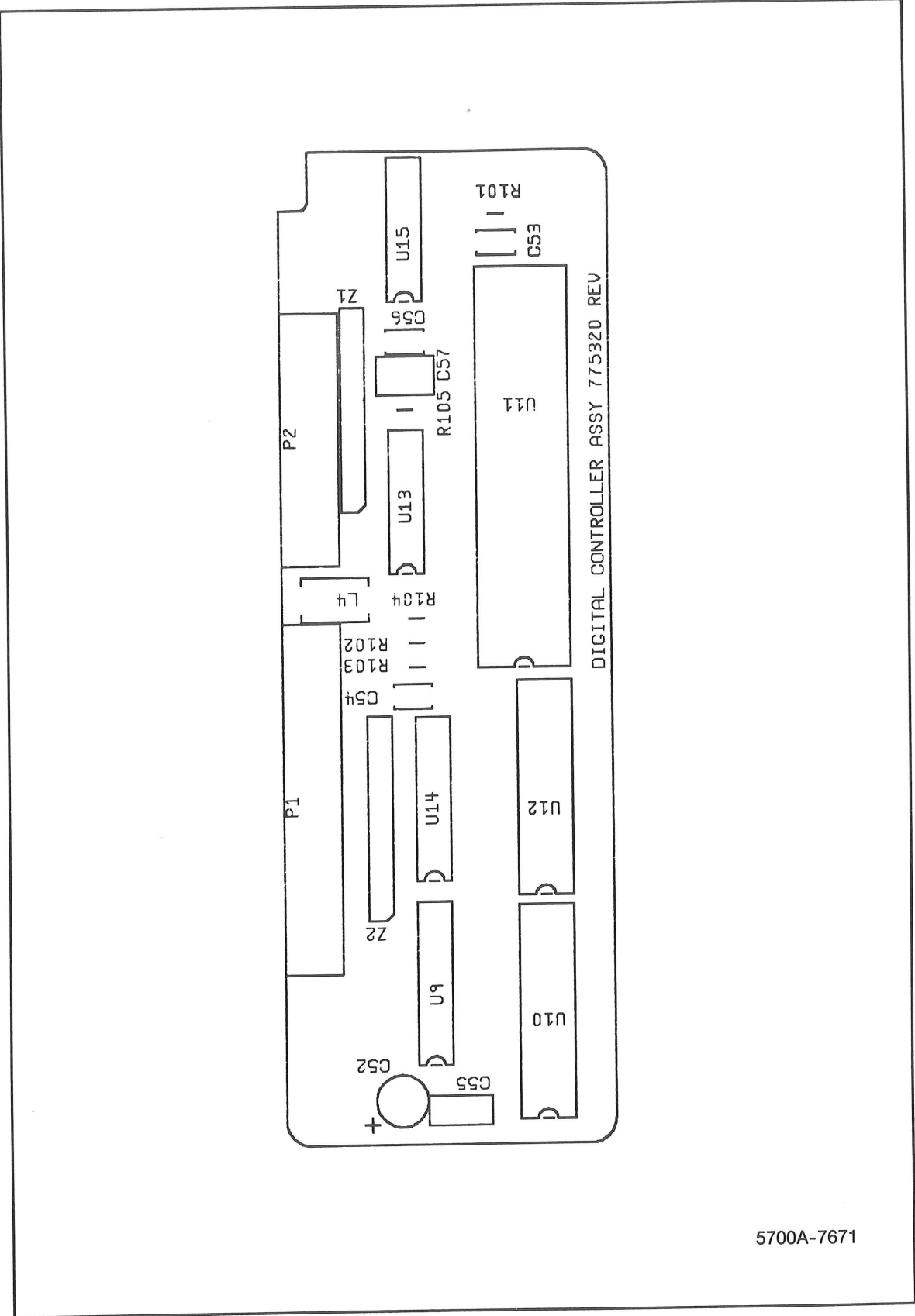
LIST OF REPLACEABLE PARTS

Table 6-21. A16A1 Power Amplifier Digital Control SIP PCA
(See Figure 6-21.)

REFERENCE DESIGNATOR		FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
C 52	CAP,AL,15UF,+/-20%,35V	614024	74840	156RLR035M	1	
C 53, 56	CAP,CER,33PF,+/-5%,50V,COG	714543	04222	SR215A330JAT	2	
C 54	CAP,CER,470PF,+/-10%,50V,COG	733071	04222	SR215A471KAT	1	
C 55, 57	CAP,POLYEST,0.22UF,+/-5%,50V	747519	60935	185.22J0050RCB	2	
L 4	CHOKE,6TURN	320911	89536	320911	1	
MP 3	HEADER,2 ROW,.100CTR,RT ANG,10 PIN	658112	00779	1-87230-5	1	
P 1, 2	HEADER,2 ROW,.100CTR,RT ANG,26 PIN	512590	00779	1-87230-3	2	
R 101,105	RES,MF,1K,+/-1%,0.125W,100PPM	816595	59124	MF50DVT1001F	2	
R 102	RES,CF,16K,+/-5%,0.25W	714303	59124	CF1-4VT163J	1	
R 103	RES,CF,10K,+/-5%,0.25W	697102	59124	CF1-4VT103J	1	
R 104	RES,CF,4.7K,+/-5%,0.25W	721571	59124	CF1-4VT472J	1	
U 9	* IC,LSTTL,3-8 LINE DCDR W/ENABLE	407585	01295	SN74LS138N	1	
U 10, 12	* IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289	UCN5801A	2	
U 11	* IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371	CP82C55A	1	
U 13, 15	* IC,COMPARATOR,QUAD,14 PIN DIP	387233	12040	LM339N	2	
U 14	* IC,CMOS,8-1 LINE MUX/DEMUX ANALOG SW	836304	04713	MM74HC4051N	1	
Z 1	RES,CERM,SIP,10 PIN,9 RES,47K,+/-2%	485193	91637	CSC10A-01-473G	1	
Z 2	RES,CERM,SIP,10 PIN,9 RES,4.7K,+/-2%	484063	91637	CSC10B-01-472G	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS



5700A-7671

Figure 6-21. A16A1 Power Amp Digital Control SIP PCA

LIST OF REPLACEABLE PARTS

Table 6-22. A17 Regulator/Guard Crossing PCA
(See Figure 6-22.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T
-A-> NUMERICS-----> S-----DESCRIPTION-----> --NO--	-CODE-	-OR	GENERIC TYPE-----	-E-	
C 1, 2, 4,	799437	62643	KMC50VB10RM5X11RP	18	
C 6, 7, 9,	799437				
C 11, 12, 14-	799437				
C 16, 19- 23,	799437				
C 27, 28	799437				
C 3, 10, 18,	149161	60705	565CBA101AR503MA05	4	
C 25	149161				
C 5, 24, 29,	851766	62643	KRE35VB22RM6X5RP	4	
C 102	851766				
C 8, 13	845149	31433	T356G226M025AS	2	
C 17, 26, 65,	816843	62643	KM63VB10RM5X11RP	4	
C 66	816843				
C 52, 53	697524	04222	SR215A150MAT	2	
C 54, 56, 59,	649913	60935	185-2/0.1/K0050RAB	14	
C 60,101,104-	649913				
C 107,109,110,	649913				
C 112-114	649913				
C 55, 58	714766	56289	199D106X0010BA1	2	
C 57	733246	56289	199D476X0010DA1	1	
C 61, 62	714550	04222	SR215A220JAT	2	
C 63, 64	362665	51406	RD8721N47010G50V	2	
C 67- 70	357780	31433	T361B226M025AS	4	
CR 1- 34	742874	65940	1N4002A	34	
CR 35	313247	28480	5082-6264 T25	1	
F 1	832253	60046	19372-3.150	1	
H 19- 22	838458		COMMERCIAL	4	
H 45- 48	152173		COMMERCIAL	4	
H 49- 52	853952	13103	8181E1	4	
H 53- 60	152819	78189	511-061800-00	8	
J 801,802	807800	28213	7264-50D2TB	2	
L 51	452888	89536	452888	1	
L 53, 54	417196	89536	417196	2	
MP 1, 5, 13	418384	13103	2225B	3	
MP 2- 4, 9,	816587	30161	5968B	5	
MP 37	816587				
MP 6- 8, 11	643593	13103	6016B-1.25	4	
MP 10	853283	30161	5784B	1	
MP 12	643353	13103	6038B-TT	1	
MP 14	853395	98978	PSC2T-2CB	1	
MP 15- 22	435578	9W423	9531B-B-0632	8	
MP 23	761353	89536	761353	1	
MP 24- 27	807347	OCLN7	AD42H	4	
MP 35, 36	494724	32559	CP-66	2	
MP 38	802884	89536	802884	1	
MP 39- 42	473165	55285	7403-09FR-05	4	
MP 59- 62, 73-	152207	07047	10123-DAP	8	
MP 76	152207				
MP 71, 72	735365	89536	735365	2	
Q 1	559989	04713	TIP125	1	
Q 2	386128	01295	TIP120T	1	
R 1, 4	484238	91637	CMF551130B T-1	2	
R 2, 8	161430	91637	CMF652671F T-1	2	
R 5, 11	851191	91637	CMF552030B T-1	2	
R 6	851571	91637	CMF552611B T-1	1	
R 10	340596	80031	5033RE2671F	1	
R 13	572941	59124	CF1-4100JB	1	
R 14, 18	851279	91637	CMF551500B T-1	2	
R 15, 17	832378	91637	CMF655111B T-1	2	
R 19	109090	01121	EB3021	1	
R 20, 58, 59	573279	59124	CF1-4302JB	3	
R 52	719468	91637	CMF551001F T-1	1	
R 53	696971	59124	CF1-4106JB	1	
R 54	573220	65940	R25J182	1	
R 56	573030	59124	CF1-4151JB	1	
R 57	573014	59124	CF1-4101JB	1	
R 60, 61	851303	91833	RL3510100110120PT5	2	
SW 51	782656	72884	SKHHAM	1	
T 51	813477	89536	813477	1	
TP 1, 4, 6,	816090	91984	1SOT1	9	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-22. A17 Regulator/Guard Crossing PCA (cont)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E-
-A>-NUMERICS--> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
TP 8- 10, 12,	816090				
TP 55, 58	816090				
U 1, 5, 10	723445	12040	LM317HVK	3	
U 2, 4	413187	04713	MC7815CT	2	
U 3, 9	413179	04713	MC7915CT	2	
U 6	851717	64155	LT1085CK	1	
U 7	851720	64155	LT1033CK	1	
U 8, 11	327981	34333	SG309K	2	
U 12	394551	04713	MC7905CT	1	
U 13	845276	27014	LM337HVH	1	
U 51	741199	04713	MC74HCU04N	1	
U 52	741892	01295	SN74HCT244N	1	
U 53, 54	799478	04713	MC74HC137N	2	
U 55	722017	18324	74HCT245N	1	
U 56	775270	89536	775270	1	
U 57	393959	01295	SN75451BP	1	
U 58	845263	89536	845263	1	
U 59, 63	807701	04713	MC74HC4020N	2	
U 60	780577	01295	TI7705ACP	1	
U 62	783332	12581	HM6264LP-12	1	
VR 1, 3	851584	04713	1N5260B	2	
VR 2, 4	698696	04713	1N748	2	
VR 5, 6	454553	04713	1N5339B	2	
X 1	812198	14329	802-0241-812	1	
X 2	783688	91506	2400-APHT-764	1	
X 3	448217	91506	228-AG39D	1	
Y 51	800367	5W664	NDK 049	1	
Y 52	707133	89536	707133	1	
Z 1, 3	513309	91637	CSC08A-03-103G	2	
Z 2	529990	91637	CSC10A-03-101G	1	
Z 51	355305	91637	MDP16-03-103J	1	
Z 52	573881	91637	CSC08A-03 102G	1	
Z 53, 54	622761	91637	CSC10A-03-330G	2	

An * in 'S' column indicates a static-sensitive part.

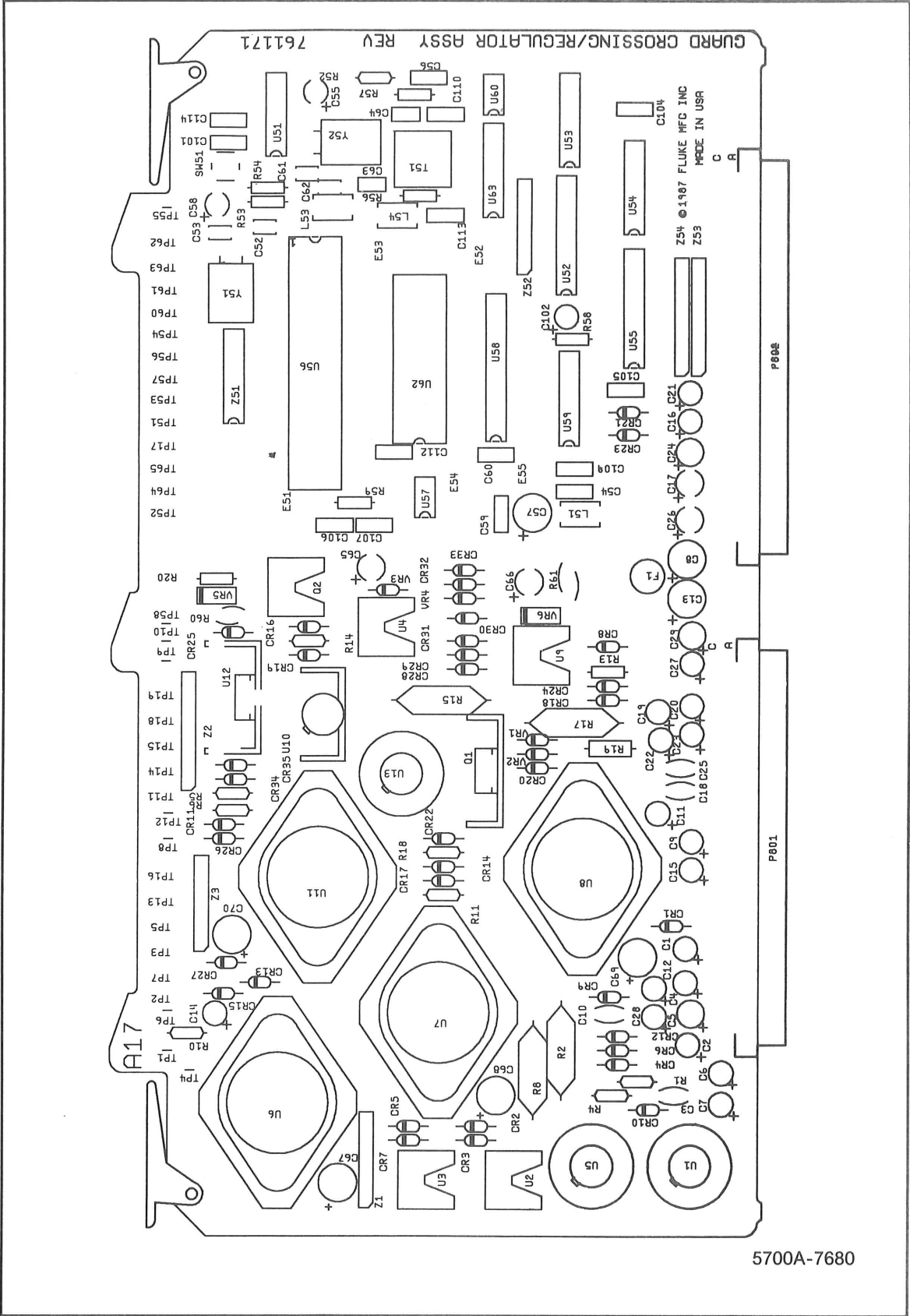


Figure 6-22. A17 Regulator/Guard Crossing PCA

LIST OF REPLACEABLE PARTS

Table 6-23. A18 Filter/PA Supply PCA
(See Figure 6-23.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E-
-A>-NUMERIC--> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
C 1, 10, 17	747519	60935	185.22J0050RCB	3	
C 2, 3	782466	62643	KME25VN682M30X25LLV	2	
C 4, 6	782391	00199	CEBSM1H102M	2	
C 5, 19	782383	62643	KME25VB222M16X25LL	2	
C 7- 9, 18	816785	62643	KME100VB331M16X25LL	4	
C 11	816793	62643	KME25VB221M8X11.5RP	1	
C 12, 22	817056	62643	KMA35VB220M6X7PT	2	
C 13- 16	782458	62643	KME50VN332M30X30LLV	4	
C 20	799437	62643	KMC50VB10RM5X11RP	1	
C 21	747493	62643	KMC50VB471M16X25LLV	1	
C 23, 209, 210	733089	60935	185/1.00K0050RGB	3	
C 201, 203, 204, 206	782532	62643	NM400VN47RM22X30SDV	4	
C 202, 205	782532				
C 207, 208	782524	62643	SM450VB3R3M12X24LDV	2	
C 211, 212	816850	62643	KME16VB101M6.3X11RP	2	
CR 1, 2, 4, 5	831495	31433	C330C101J5G5CA	2	
CR 3, 14	523720	12969	UES1303	4	
CR 6, 7	403055				
CR 8, 10, 12, 13	392910	21845	F903B-21G	2	
CR 9, 16, 18	296509	30800	KBP 02M	2	
CR 11, 15, 17	523720	12969	UES1303	4	
CR 19	816363				
CR 201, 203, 208, 210, 234, 235, 239, 243	742874	65940	1N4002A	3	
CR 205, 217, 218, 220, 221, 223, 224, 227, 228, 240, 247, 248	586115	30800	KBL005	3	
CR 209, 236	413013	02735	T2800B	1	
CR 222	831586	65940	1N4004A	8	
CR 244, 251-253	831586				
F 1, 2, 8	707075	04713	1N4007-SR4348RL	12	
F 3- 5, 7, 9	707075				
F 6, 201-204	707075				
H 6- 9	334839	17856	J9013	2	
H 13- 16	341016	30800	KBP 08M	1	
J 201, 202	659516	03508	1N4448	4	
K 201	816488	60046	19372-1.600	3	
MP 2	831990	60046	19372-0.500	5	
MP 3	831990				
MP 4, 5	832337	60046	19372-0.315	5	
MP 10	838458				
MP 201, 202	110403				
MP 203-206	757294	00779	850108-1	2	
MP 207-210	733063	61529	DS2E-S-DC5V	1	
MP 211-214	543488	28213	SJ5008	1	
MP 215-218	418384	13103	2225B	1	
MP 219-222	494724	32559	CP-66	2	
P 901, 902	152207	07047	10123-DAP	1	
Q 201, 202	643916	22526	65500-102	2	
Q 203, 206	816546	13103	7019B-MT	4	
Q 204, 209, 210, 212	534453	55285	7403-09FR-54	4	
Q 205, 207, 208, 213	844824	86928	5608-72	4	
Q 211, 214	129890				
Q 215, 216	110635				
Q 217	807800	28213	7264-50D2TB	2	
Q 218	782540	04713	MTP2N50	2	
Q 219	650846	04713	SPS8822RLRA2	2	
R 1	782508	59640	VP0550N3	4	
R 2- 5	782508				
R 201, 244	782490	17856	V11949TR	4	
R 202, 243	782490				
	853994	04713	2N6517	2	
	782482	04713	MTP2P50	2	
	806497	04713	MPSU07	1	
	698225	04713	2N3904RLRA2	1	
	698233	04713	2N3906RLRA	1	
	266361	01121	GB5615	1	
	109041	01121	EB2031	4	
	442269	59124	CF1-48R2JB	2	
	640995	59124	CF1-45R1J	2	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-23. A18 Filter/PA Supply PCA (cont)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E-
-A>-NUMERICS----->	S-----DESCRIPTION----->	--NO--	-CODE-	--OR GENERIC TYPE-----		
R 203, 241, 256, R 257	RES, CF, 9.1K, +-5%, 0.25W	706663 706663	59124	CF1-4VT912J	4	
R 204, 253	RES, CF, 1.5, +-5%, 0.25W	732800	59124	CF1-4VT1R5J	2	
R 205, 216, 229, R 240	RES, CC, 560K, +-10%, 0.5W	108795 108795	01121	EB5641	4	
R 206, 239	RES, CF, 1M, +-5%, 0.25W	649970	59124	CF1-4VT105J	2	
R 207, 209, 237, R 238	RES, CF, 3K, +-5%, 0.25W	810366 810366	59124	CF1-4VT302J	4	
R 208, 210, 235, R 236	RES, CC, 220K, +-10%, 1W	109652 109652	01121	GB2241	4	
R 211	RES, CF, 47, +-5%, 0.25W	822189	59124	CF1-4VT470J	1	
R 212, 220, 222, R 231, 242	RES, CF, 33K, +-5%, 0.25W	733667 733667	59124	CF1-4VT333J	5	
R 213, 217, 218, R 230, 232, 245, R 249	RES, CF, 10K, +-5%, 0.25W	697102 697102 697102	59124	CF1-4VT103J	7	
R 214, 233	RES, CF, 200K, +-5%, 0.25W	681841	59124	CF1-4VT204J	2	
R 215, 234	RES, CC, 330, +-10%, 0.5W	108589	01121	EB3311	2	
R 221, 250	RES, CF, 82K, +-5%, 0.25W	655027	59124	CF1-4VT823J	2	
R 225	RES, CF, 100K, +-5%, 0.25W	573584	59124	CF1-4104JB	1	
R 226, 248	RES, MF, 3.16K, +-1%, 0.125W, 100PPM	235291	91637	CMF-553161F T-1	2	
R 228, 247	RES, CF, 100K, +-5%, 0.25W	658963	59124	CF1-4VT104J	2	
R 246, 251	RES, CF, 4.7K, +-5%, 0.25W	721571	59124	CF1-4VT472J	2	
R 252	RES, CF, 300K, +-5%, 0.25W	732818	59124	CF1-4VT304J	1	
R 254, 255	RES, CC, 27, +-5%, 0.5W	260984	01121	EB2705	2	
RT 1, 2	THERMISTOR, DISC, POSITIVE, 50, +-30%	816140	54583	911X22E500NR07A	2	
S 201	SWITCH, SLIDE, DPDT	436691	79727	GF-126	1	
TP 1- 22, 203, TP 205-212	JUMPER, WIRE, NONINSUL, 0.200CTR	816090 816090	91984	1SOT1	31	
TP 201	SOCKET, SINGLE, PWB, FOR 0.080 PIN	170480	74970	105-752	1	
TP 204	SOCKET, SINGLE, PWB, FOR 0.080 PIN	149120	74970	105-0754	1	
U 1	* IC, VOLT REG, FIXED, -5 VOLTS, 0.1 AMPS	816322	04713	MC79L05ACG	1	
U 2	* IC, VOLT REG, FIXED, +5 VOLTS, 0.1 AMPS	816355	04713	MC78L05ACG	1	
U 3	* IC, VOLT REG, FIXED, -18 VOLTS, 1.5AMPS	845474	04713	MC7918CT	1	
U 201	* IC, COMPARATOR, QUAD, 14 PIN DIP	387233	12040	LM339N	1	
VR 20, 21	* ZENER, UNCOMP, 82.0V, 5%, 1.5MA, 0.5W	844977	04713	1N5268B	2	
VR 202, 213, 233, VR 242	* ZENER, UNCOMP, 10.0V, 5%, 12.5MA, 0.4W	810267 810267	04713	1N961BRR1	4	
VR 206, 207, 218, VR 228, 237, 238	* ZENER, UNCOMP, 10.0V, 5%, 20.0MA, 0.5W	820480 820480	04713	1N5240BRR1	6	
VR 211, 217, 227, VR 231	* ZENER, UNCOMP, 140.0V, 5%, 1.8MA, 1.0W	340703 340703	12969	UZ8114	4	
VR 212, 216, 226, VR 232	* ZENER, UNCOMP, 180V, 2%, 0.68MA, 0.4W	816348 816348	04713	1N5279CTA2	4	
VR 214, 230, 246, VR 247	* ZENER, UNCOMP, 56.0V, 5%, 2.2MA, 0.4W	832568 832568	04713	1N979BRR1	4	
VR 215, 219, 225, VR 229	* ZENER, UNCOMP, 200.0V, 5%, 5.0MA, 5.0W	386839 386839	04713	1N5388B	4	
VR 245	* ZENER, UNCOMP, 3.3V, 5%, 20.0MA, 0.4W	820423	04713	1N746ARR1	1	
Z 1- 3	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-103G	3	
Z 201	RES, CERM, SIP, 6 PIN, 5 RES, 100K, +-2%	412726	91637	CSC06A-03-104G	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

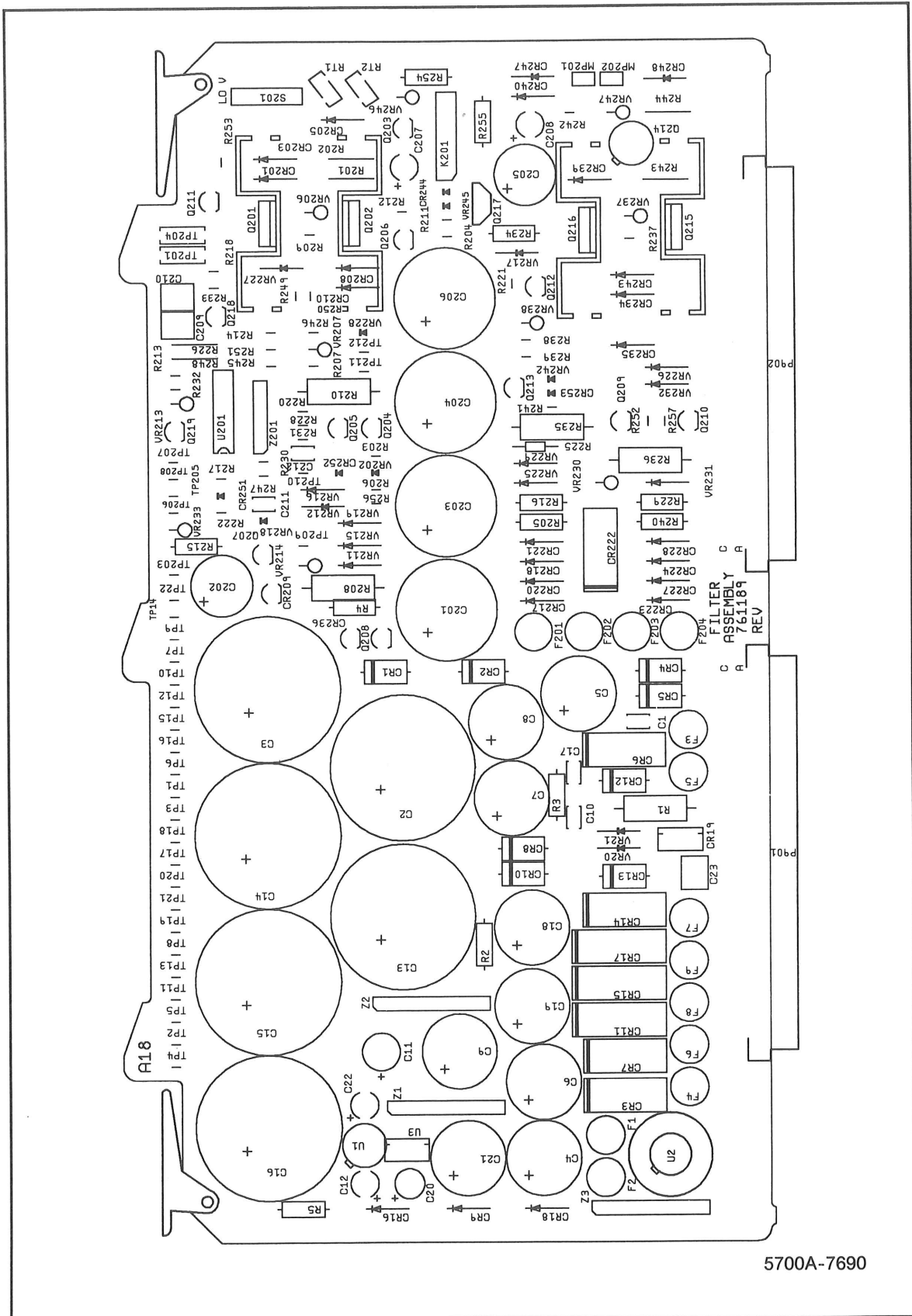


Figure 6-23. A18 Filter/PA Supply PCA

LIST OF REPLACEABLE PARTS

Table 6-24. A19 Digital Power Supply PCA
(See Figure 6-24.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T			
-A>-NUMERICS--> S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-			
C 1			CAP,AL,470UF,+20%,160V,SOLV PROOF	816835	62643	KME160VN471M30X30LLV	1	
C 2			CAP,AL,10UF,+20%,160V,SOLV PROOF	817064	62643	KME160VB10RM10X16LL	1	
C 3			CAP,AL,330UF,+20%,100V,SOLV PROOF	816785	62643	KME100VB331M16X25LL	1	
C 4, 9			CAP,AL,10UF,+20%,63V,SOLV PROOF	816843	62643	KM63VB10RM5X11RP	2	
C 5, 11			CAP,CER,0.10UF,+20%,50V,X7R	853650	04222	SR215C104MAATR	2	
C 6			CAP,AL,10000UF,+20%,25V,SOLV PROOF	816819	62643	SME25VN103M30X0LLV	1	
C 7			CAP,AL,6800UF,+30-20%,25V,SOLV PROOF	782466	62643	KME25VN682M30X25LLV	1	
C 8			CAP,AL,2.2UF,+20%,50V,SOLV PROOF	816868	62643	KME50VB2R2M5X11RP	1	
C 10			CAP,AL,22UF,+20%,35V,SOLV PROOF	817056	62643	KMA35VB220M6X7PT	1	
C 12, 13			CAP,AL,22000UF,+20%,16V,SOLV PROOF	822379	62643	SME16VN223M35X30LLV	2	
C 14, 16, 19-			CAP,CER,0.22UF,+20%,50V,X7R	853648	04222	SR325C224MAATRA	7	
C 23				853648				
C 15			CAP,AL,100UF,+20%,16V,SOLV PROOF	816850	62643	KME16VB101M6.3X11RP	1	
C 17			CAP,POLYPR,0.047UF,+10%,630V	500827	60935	171/.047/K/630/H	1	
C 18			CAP,POLYPR,0.047UF,+10%,160V	446773	60935	171/.047/K/160/B-C	1	
C 24, 25			CAP,CER,0.022UF,+80-20%,500V,Z5U	740340	51406	RPE113-901Z5U223Z9	2	
CR 1- 4, 9-			DIODE,SI,200 PIV,1.0 AMP	586644	04713	1N4935	8	
CR 12				586644				
CR 8, 16, 21-			DIODE,SI,100 PIV,1.0 AMP	742874	65940	1N4002A	12	
CR 24, 29- 34				742874				
CR 13		*	DIODE,N-JFET,CURRENT REG,IF=3.0 MA	852137	17856	J9009-TR3	1	
CR 17- 20			DIODE,SI,50 PIV,1.0 AMP	379412	04713	1N4933	4	
CR 25- 28			DIODE,SI,50 PIV,3.0 AMP	403055	04713	MR850	4	
CR 35		*	DIODE,GER,BV=66 V,IO=50MA	180505	66891	1N276	1	
F 1			FUSE,8X8.5MM,0.315A,250V,SLOW,RADIAL	832337	60046	19372-0.315	1	
F 2			FUSE,8X8.5MM,0.125A,250V,SLOW,RADIAL	832261	60046	19372-0.125	1	
F 3, 4			FUSE,8X8.5MM,2A,250V,SLOW,RADIAL	806331	60046	19372-2.000	2	
F 5			FUSE,8X8.5MM,3.15A,250V,SLOW,RADIAL	832253	60046	19372-3.150	1	
H 2			SCREW,MACH,PH,P,STL,4-40X0.375	152124		COMMERCIAL	1	
H 3, 4			HEAT DIS,CLIP,1.00,1.18,.50,TO-220	643353	13103	6038B-TT	2	
H 5			HEAT DIS,VERT FINS,TO-3	342675	13103	6003-B-2	1	
H 6, 7			RIVET,S-TUB,OVAL,STL,.087,.343	838458		COMMERCIAL	2	
H 11			SCREW,MACH,PH,P,SS,4-40X.437	403782		COMMERCIAL	1	
L 1- 6			CHOKE,6TURN	320911	89536	320911	6	
L 7			INDUCTOR, 33 UH	813485	89536	813485	1	
L 8			TRANSFORMER, PULSE	660589	89536	660589	1	
M 1, 2			FOOT,ADHESIVE,RUBBER,GREY,.44X.20	358341	28213	SJ-5003	2	
MP 8, 27			NUT,MACH,HEX,STL,4-40	110635		COMMERCIAL	2	
MP 9, 10			NUT,CAP EXT LW,STL,6-32X.109	152819	78189	511-061800-00	2	
MP 11, 12			GROMMET,SLOT,RUBBER,.250,.437	853291	73734	113006	2	
MP 13, 14			EJECTOR,PWB,NYLON	494724	32559	CP-66	2	
MP 15, 26			HEAT DIS,VERT,1.00X1.375X0.50,TO-220	831099	13103	6098B-P2	2	
MP 16			HEAT,DIS,ACC,NYL,TO-3	851907	13103	8182-E1	1	
MP 21			INSUL PART,TRANS,SILICONE,POWER	534453	55285	7403-09FR-54	1	
MP 24			INSUL PART,TRANS,SILICONE,TO-3	473165	55285	7403-09FR-05	1	
MP 25			SPACER,TRANSISTOR MOUNT,DAP,TO-5	152207	07047	10123-DAP	1	
MP 28, 29			SCREW,MACH,PH,P,STL,6-32X0.250	152140		COMMERCIAL	2	
MP 30, 31			SPACER,SWAGED,RND,BR,6-32,.125	435578	9W423	9531B-B-0632	2	
P 41			CONN,DIN41612,TYPE C,RT ANG,64 PIN	853846	88245	96P-6033-0531-0-C	1	
Q 1		*	TRANSISTOR,SI,BV=200V,80W,TO-3	261347	04713	MJ410	1	
Q 2, 6		*	TRANSISTOR,SI,NPN,HI-VOLTAGE	370684	04713	MPSA42	2	
Q 3, 7- 10		*	TRANSISTOR,SI,BV=300V, 10W,TO-202	381731	04713	MPS-U10	5	
Q 4		*	TRANSISTOR,SI,VB=200V,10W,TO-5	276899	04713	2N5415	1	
Q 5		*	TRANSISTOR,SI,BV= 60V, 65W,TO-220	386128	01295	TIP120T	1	
R 1			RES,CF,5.1,+5%,0.25W	640995	59124	CF1-45R1J	1	
R 2			RES,CF,2K,+5%,0.25W	573238	59124	CF1-4202JB	1	
R 3, 12			RES,CF,100K,+5%,0.25W	573584	59124	CF1-4104JB	2	
R 4			RES,CC,4.7K,+5%,0.25W	148072	01121	CB4725	1	
R 5			RES,CF,12,+5%,0.25W	442178	59124	CF1-4120JB	1	
R 6			RES,CC,10K,+10%,2W	110106	01121	GB1031	1	
R 7			RES,CC,2,+5%,0.5W	218735	01121	EB2005	1	
R 8			RES,CF,120K,+5%,0.25W	573592	59124	CF1-4121JB	1	
R 9, 11			RES,CF,33K,+5%,0.25W	573485	59124	CF1-4333JB	2	
R 10			RES,CF,51K,+5%,0.25W	573535	59124	CF1-4513JB	1	
R 13			RES,CC,10K,+5%,0.25W	148106	01121	CB1035	1	
TP 1- 5, 8,			JUMPER,WIRE,NONINSUL,0.200CTR	816090	91984	150T1	9	
TP 10, 12, 13				816090				
U 1		*	IC,VOLT REG,FIXED,+12 VOLTS,1.5 AMPS	413195	04713	MC7812CT	1	
U 2		*	IC,VOLT REG,FIXED,-12 VOLTS,1.5 AMPS	381665	04713	MC7912CT	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-24. A19 Digital Power Supply PCA (cont)

REFERENCE DESIGNATOR		FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT	N O T
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----	QTY-	-E-
U 3	* IC, VOLT REG, FIXED, 5 VOLTS, 2 AMPS	816918	S3385	SI-3052V	1	
VR 5	* ZENER, UNCOMP, 6.2V, 5%, 20.0MA, 0.4W	698662	04713	1N753A-SR4348RL	1	
VR 6	* ZENER, UNCOMP, 36.0V, 5%, 3.4MA, 0.4W	186163	04713	1N974B	1	
VR 7	* ZENER, UNCOMP, 39.0V, 5%, 3.2MA, 0.4W	831248	04713	1N975BTA2	1	
VR 14, 15	* ZENER, UNCOMP, 18.0V, 5%, 7.0MA, 0.4W	327973	14552	1N967B	2	

An * in 'S' column indicates a static-sensitive part.

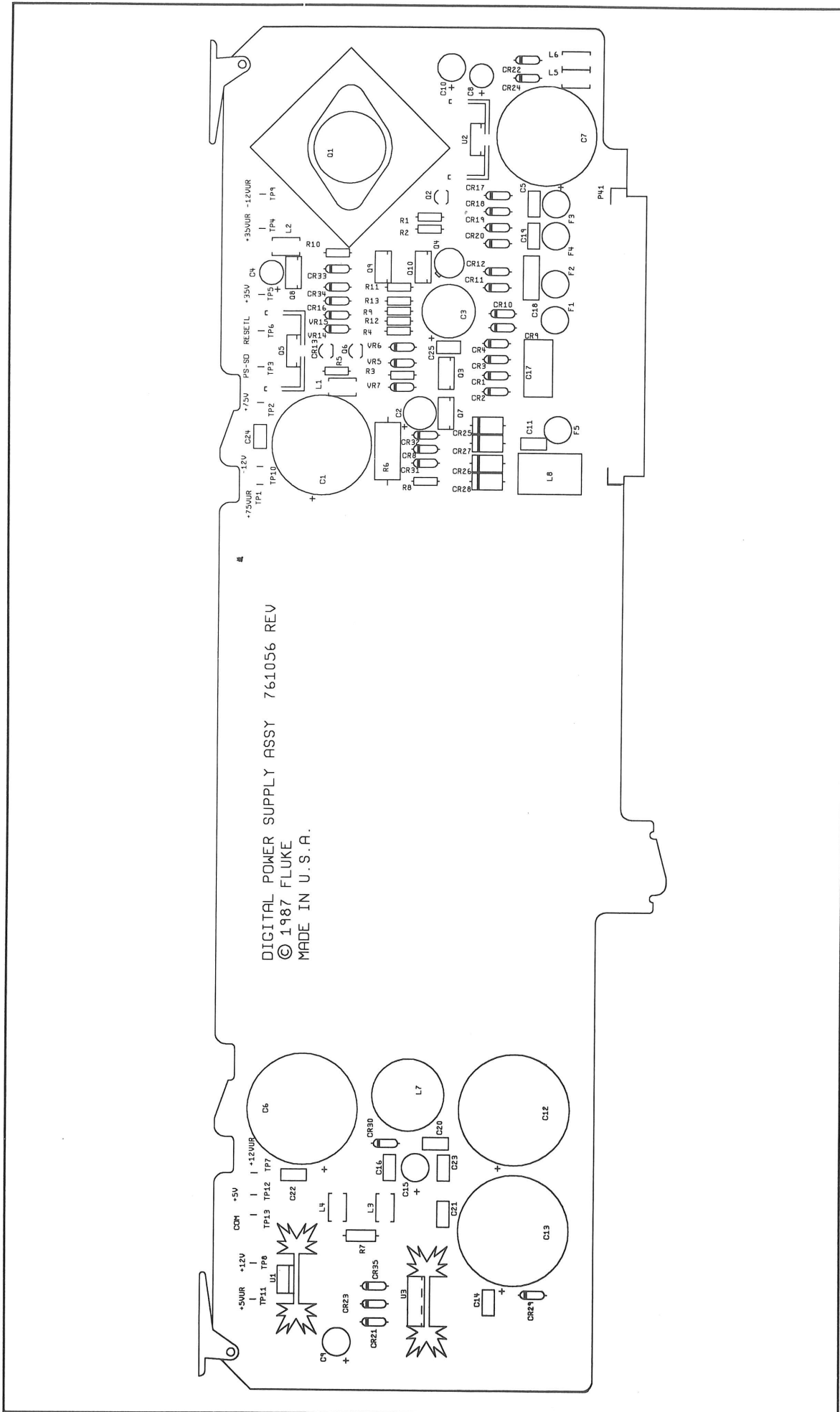


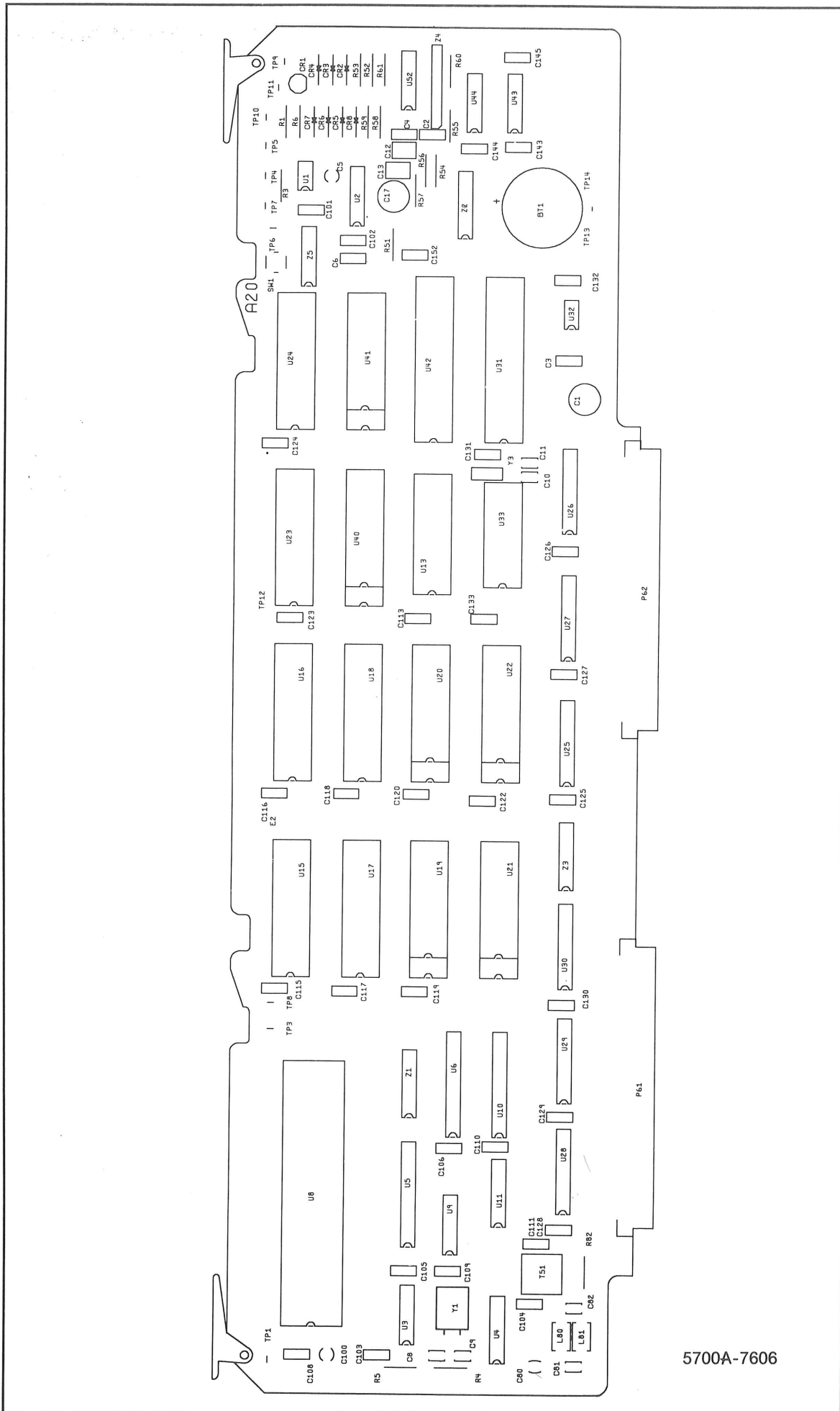
Figure 6-24. A19 Digital Power Supply PCA

LIST OF REPLACEABLE PARTS

Table 6-25. A20 CPU PCA
(See Figure 6-25.)

REFERENCE DESIGNATOR	DESCRIPTION	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T -E
-A>-NUMERIC-->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		
BT 1	BATTERY, LITHIUM, 3.0V, 0.500AH	821439	67237	ES1045-01	1	
C 1	CAP, TA, 220UF, +-20%, 10V	474288	56289	199D227X0003EA3	1	
C 2- 4, 6,	CAP, POLYES, 0.1UF, +-10%, 50V	649913	60935	185-2/0.1K0050RAB	37	
C 101-106, 108-		649913				
C 111, 113, 115-		649913				
C 120, 122-133,		649913				
C 143-145, 152		649913				
C 5	CAP, TA, 15UF, +-20%, 20V	807610	56289	199D156X0020DA1	1	
C 8- 11	CAP, CER, 22PF, +-2%, 50V, COG	714832	04222	SR215A220GAT	4	
C 12, 13	CAP, POLYES, 0.22UF, +-10%, 50V	706028	60935	185-2/.22K0050RCB	2	
C 17	CAP, AL, 47UF, +-20%, 35V, SOLV PROOF	643312	62643	LR35VB470M10X15LLV	1	
C 80	CAP, CER, 0.22UF, +80-20%, 50V, Z5U	649939	04222	SR215E224MAA	1	
C 81, 82	CAP, CER, 120PF, +-5%, 50V, COG	721142	04222	SR215A121JAT	2	
C 100	CAP, TA, 2.2UF, +-20%, 16V	706804	56289	199D225X0016AA1	1	
CR 1	LED, RED, T1-3/4, 5MM LEAD SPACING	723486	25088	LDH1111-329	1	
CR 2, 3, 7	DIODE, SI, 100 PIV, 1.0 AMP	742874	65940	1N4002A	3	
CR 4- 6, 8	* DIODE, SI, SCHOTTKY BARRIER, SMALL SIGNAL	313247	28480	5082-6264 T25	4	
H 3- 6	RIVET, S-TUB, OVAL, STL, .087, .343	838458		COMMERCIAL	4	
L 80, 81	CHOKE, 3 TURN	452888	89536	452888	2	
M 3, 4	FOOT, ADHESIVE, RUBBER, GREY, .44X.20	358341	28213	SJ-5003	2	
MP 1, 2	EJECTOR, PWB, NYLON	494724	32559	CP-66	2	
MP 7, 8	PAD, ADHESIVE	735365	89536	735365	1	
R 1, 3	RES, CF, 470, +-5%, 0.25W	573121	59124	CF1-4471JB	2	
R 4	RES, CF, 10M, +-5%, 0.25W	696971	59124	CF1-4106JB	1	
R 5	RES, CF, 1.8K, +-5%, 0.25W	573220	59124	CF1-4182JB	1	
R 6	RES, CF, 6.2K, +-5%, 0.25W	573345	59124	CF1-4622JB	1	
R 51- 54	RES, MF, 5.11K, +-1%, 0.125W, 100PPM	720342	91637	CMF-555111F T-1	4	
R 55	RES, MF, 10K, +-1%, 0.125W, 100PPM	719476	91637	CMF-551002F T-1	1	
R 56, 57	RES, MF, 1K, +-1%, 0.125W, 100PPM	719468	91637	CMF-551001F T-1	2	
R 58, 59	RES, MF, 39.2K, +-1%, 0.125W, 25PPM	312207	91637	CMF-553922F T-9	2	
R 60, 61	RES, MF, 1M, +-1%, 0.125W, 100PPM	719492	91637	CMF-551004F T-1	2	
R 81, 82	RES, CF, 150, +-5%, 0.25W	573030	59124	CF1-4151JB	2	
SW 1	SWITCH, PUSHBUTTON, SPST, MOMENTARY	782656	72884	SKH8M	1	
T 51	RF TRANSFORMER 8 MHZ	813477	89536	813477	1	
TP 1, 3- 12	JUMPER, WIRE, NONINSUL, 0.200CTR	816090	91984	150T1	11	
U 1	* IC, VOLT SUPERVISOR, 4.55V SENSE INPUT	780577	01295	TI7705ACP	1	
U 2	* IC, LSTTL, HEX INVERTER W/OPEN COLLECT	394536	04713	SN74LS05N	1	
U 3	* IC, CMOS, HEX INVERTER, UNBUFFERED	741199	04713	MC74HC04N	1	
U 4, 11	* IC, CMOS, 14 STAGE BINARY COUNTER	807701	04713	MC74HC4020N	2	
U 5	* IC, CMOS, PROG LOG, 35NS, 5700A-90760	845271	89536	845271	1	
U 6	* IC, CMOS, PROG LOGIC, 25NS, 5700A-90761	845250	89536	845250	1	
U 8	* IC, CMOS, 16 BIT MPU, 8 MHZ, DIP	816926	04713	MC68HC000P-8	1	
U 9	* IC, CMOS, QUAD 2 INPUT OR GATE	817312	04713	MC74HC32N	1	
U 10	* IC, CMOS, PROG LOGIC, 35NS, 5700A-90762	845268	89536	845268	1	
U 13	* IC, NMOS, 32K X 8 EEPROM, 200NS	817270	60395	X28256D-20	1	
U 15	* EPROM, PROGRAMMED 27010, A20U015	761262	89536	761262	1	
U 16	* EPROM, PROGRAMMED 27010, A20U016	761361	89536	761361	1	
U 17	* EPROM, PROGRAMMED 27010, A20U017	761379	89536	761379	1	
U 18	* EPROM, PROGRAMMED 27010, A20U018	775247	89536	775247	1	
U 19- 22	* IC, CMOS, 32K X 8 STATIC RAM, 120 NSEC	800250	33297	D43256C12L	4	
U 25, 27- 29	* IC, CMOS, OCTAL LINE DRVR W/3-ST OUT	741892	01295	SN74HCT244N	4	
U 26, 30	* IC, CMOS, OCTAL BUS TRANSCEIVER	722017	18324	74HCT245N	2	
U 31	* IC, CMOS, DUAL CHANNEL UART (DUART)	799494	66419	XLS68C1C	1	
U 32	* IC, TTL, DUAL AND DRVR W/OPEN COLLECTOR	393959	01295	SN75451BP	1	
U 33	* IC, CMOS, CLOCK CALENDAR	807693	34371	ITS9263	1	
U 52	* IC, OP AMP, QUAD, 14 PIN DIP	402669	27014	LM324N	1	
X 5, 6, 10	SOCKET, IC, 24 PIN	812198	00779	2-641932-3	3	
X 8	SOCKET, IC, 64 PIN	483842	00779	643575-3	1	
X 13	SOCKET, IC, 28 PIN	448217	91506	228-AG39D	1	
X 15- 22	SOCKET, IC, 32 PIN	807156	00779	2-644018-3	8	
Y 1	CRYSTAL, 7.3728MHZ, +-1%, HC-18U	742049	5W664	NDK 073	1	
Y 3	CRYSTAL, 32.768KHZ, +-5PPM	811943	61429	FOX-032	1	
Z 1	RES, CERM, DIP, 16 PIN, 15 RES, 3.3K, +-5%	837666	91637	MDP16-01-332J	1	
Z 2, 3	RES, CERM, DIP, 16 PIN, 15 RES, 4.7K, +-5%	416834	91637	MDP16-01-472J	2	
Z 4	RES, CERM, SIP, 10 PIN, 5 RES, 10K, +-2%	529990	91637	CSC10A-03-101G	1	
Z 5	RES, CERM, DIP, 14 PIN, 13 RES, 100K, +-5%	404624	91637	MDP14-01-104J	1	

An * in 'S' column indicates a static-sensitive part.



5700A-7606

Figure 6-25. A20 CPU PCA

LIST OF REPLACEABLE PARTS

Table 6-26. A21 Rear Panel PCA
(See Figure 6-26.)

REFERENCE DESIGNATOR	FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER OR GENERIC TYPE	N O TOT T
-A>-NUMERICS--> S-----	DESCRIPTION-----	--NO--	-CODE-	QTY- -E-
C 1, 3, 5	CAP,CER,330PF,+5%,50V,C0G	697441	04222 SR215A331JAT	3
C 4, 21, 22,	CAP,POLYES,0.1UF,+10%,50V	649913	60935 185-2/0.1R0050RAB	23
C 24- 32, 34,		649913		
C 36, 37, 40-		649913		
C 45, 48, 49		649913		
C 6, 7	CAP,CER,0.22UF,+80-20%,50V,Z5U	649939	04222 SR215E224MAA	2
C 8	CAP,CER,4700PF,+20%,100V,X7R	362871	04222 SR201C472MAT	1
C 9	CAP,CER,470PF,+10%,50V,C0G	733071	04222 SR215A471KAT	1
C 10, 70	CAP,TA,68UF,+20%,15V	193615	56289 196D686X0015LA3	2
C 11- 15	CAP,TA,10UF,+20%,25V	714774	56289 199D106X0025CA1	5
C 16	CAP,TA,10UF,+20%,35V	816512	56289 199D106X0035EA1	1
C 33	CAP,TA,39UF,+20%,20V	358234	56289 199D396X0020EA1	1
C 46, 50	CAP,TA,1UF,+20%,35V	697417	56289 199D105X0035AA1	2
C 47	CAP,CER,33PF,+2%,50V,C0G	715292	04222 SR215A330GAT	1
CR 1- 4	* DIODE,SI,BV= 75.0V,IO=150MA,500MW	698720	65940 1N4448	4
J 1	CONN,MICRO-RIBBON,REC,PWB,24 POS	851675	52500 57-20240-23	1
J 2	CONN,D-SUB,PWB,25 PIN	845214	28198 HDC25M30000-14	1
J 3	CONN,D-SUB,PWB,15 SCKT	837336	28198 HDC15F30000	1
J 4	CONN,D-SUB,PWB,15 PIN	837328	28198 HDC15M30000	1
J 5, 6	CONN,COAX,BNC(F),PWB	479162	24931 28JR175	2
J 7	CONN,D-SUB,PWB,4 CAVITY,32 SCKT	810846	52500 117-DDM-36W4SU	1
J 8	HEADER,2 ROW,.100CTR,40 PIN	807453	59730 501-4027ES	1
J 9	HEADER,2 ROW,.100CTR,34 PIN	807446	59730 500-3427ES	1
J 10	HEADER,1 ROW,.100CTR,4 PIN	631184	00779 640456-4	1
J 11, 12	HEADER,1 ROW,.100CTR,3 PIN	837351	00779 103638-2	2
K 1, 4, 5,	RELAY,ARMATURE,2 FORM C,5V	733063	51984 MR602-5SR	9
K 7- 12		733063		
K 2, 3, 6	RELAY,ARMATURE,4 FORM C,5V,LATCH	715078	61529 DS4EML2DC5VCH239	3
L 1	CHOKO,6TURN	320911	89536 320911	1
MP 1, 2	SPACER,SWAGED,RND,BR,6-32,.220	261727	9W423 9533B-B-0632	2
MP 3- 10	SPACER,SWAGED,RND,BR,4-40,.234	385310	9W423 9533B-B-0440	8
MP 21, 22	SPACER,SWAGED,RND,BR,6-32,.437	423806	9W423 9536B-B-0632	2
P 61, 62	CONN,DIN41612,TYPE C,RT ANG,64 PIN	853846	88245 96P-6033-0531-0-C	2
Q 1, 2	* TRANSISTOR,SI,N-CHAN,TO-92,SWITCH	832139	17856 J2903	2
R 1	RES,MF,1K,+1%,0.125W,100PPM	719468	91637 CMF-551001F T-1	1
R 2	RES,MF,332,+1%,0.125W,100PPM	192898	91637 CMF-553320F T-1	1
R 3	RES,CF,5.1K,+5%,0.25W	573329	59124 CF1-4512JB	1
R 4, 5, 12,	RES,CF,10K,+5%,0.25W	573394	59124 CF1-4103JB	6
R 13, 16, 17		573394		
R 6	RES,CF,15K,+5%,0.25W	573428	59124 CF1-4153JB	1
R 7, 14	RES,CF,1K,+5%,0.25W	573170	59124 CF1-4102JB	2
R 8, 9, 18,	RES,CF,200,+5%,0.25W	573055	59124 CF1-4201JB	4
R 19		573055		
R 10	RES,CF,620,+5%,0.25W	641092	59124 CF1-4621JB	1
R 11	RES,CC,1K,+10%,1W	109371	01121 GB1021	1
R 20	RES,CF,200K,+5%,0.25W	573634	59124 CF1-4204JB	1
S 1	SWITCH,SLIDE,SPDT,LOW PROFILE	810887	95146 SSB-12	1
TP 1- 15	JUMPER,WIRE,NONINSUL,0.200CTR	816090	91984 150T1	15
U 1	* IC,CMOS,OCTAL BUS TRANSCEIVER	722017	18324 74HCT245N	1
U 2	* IC,NMOS,GPIB ADAPTER	585240	01295 TMS9914ANL	1
U 3	* IC,LSTTL,OCTAL GPIB XCVR W/OPEN COL	585224	01295 SN75160BN	1
U 4	* IC,LSTTL,OCTAL IEEE-488 BUS TRANSCVR	686022	01295 SN75162BN	1
U 5	* IC,CMOS,DUAL CHANNEL UART (DUART)	799494	66419 XLS68C1C	1
U 6	* IC,TTL,QUAD RS232C LINE DRIVER	414052	04713 MC1488P	1
U 7	* IC,TTL,QUAD RS232C LINE RECEIVER	524850	04713 MC1489AN	1
U 8	* IC,CMOS,PROG LOGIC,35NS,5700A-90790	845255	89536 845255	1
U 9, 10	* IC,CMOS,OCTL D F/F W/3-STATE,+EDG TRG	585364	04713 MC74HCT374N	2
U 11, 12	* IC,CMOS,OCTL LINE DRVR W/3-ST OUT	741892	01295 SN74HCT244N	2
U 13	* IC,OP AMP,JFET INPUT,22V SUPPLY,DIP	832584	04713 LF356BN	1
U 14	* IC,CMOS,PROGRMBL PERIPHERAL INTERFACE	780650	34371 CP82C55A	1
U 16, 17	* IC,BIMOS,8 CHNL HI-VOLT DRVR W/LATCH	782912	56289 UCN5801A	2
U 18	* IC,COMPARATOR,HI-SPEED,14 PIN DIP	647115	18324 NE522N	1
VR 1, 2	* ZENER,UNCOMP,3.3V,10%,20.0MA,0.4W	698647	04713 1N746-SR4348RL	2
VR 3	* ZENER,UNCOMP,4.7V,10%,20.0MA,0.4W	387084	04713 1N750	1
W 1	CABLE, BOOST, B-OUT HIGH	802827	89536 802827	1
W 2	CABLE, BOOST, B-SENSE HIGH	802850	89536 802850	1
W 3	CABLE, BOOST HIGH VOLTAGE	802843	89536 802843	1
X 8	SOCKET,IC,24 PIN	812198	00779 2-641932-3	1
Z 1, 2	RES,CERM,SIP,10 PIN,9 RES,4.7K,+2%	484063	91637 CSC10B01472G	2

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

Table 6-26. A21 Rear Panel PCA (cont)

REFERENCE DESIGNATOR		FLUKE STOCK	MFRS SPLY	MANUFACTURERS PART NUMBER	TOT QTY	N O T E
-A>-NUMERICS----->	S-----DESCRIPTION-----	--NO--	-CODE-	-OR GENERIC TYPE-----		-E-
Z 4	RES,CERM,SIP,6 PIN,5 RES,4.7K,+2%	494690	91637	CSC06B01472G	1	
Z 5	RES,CERM,SIP,6 PIN,5 RES,10K,+2%	500876	91637	CSC06A01-103G	1	

An * in 'S' column indicates a static-sensitive part.

LIST OF REPLACEABLE PARTS

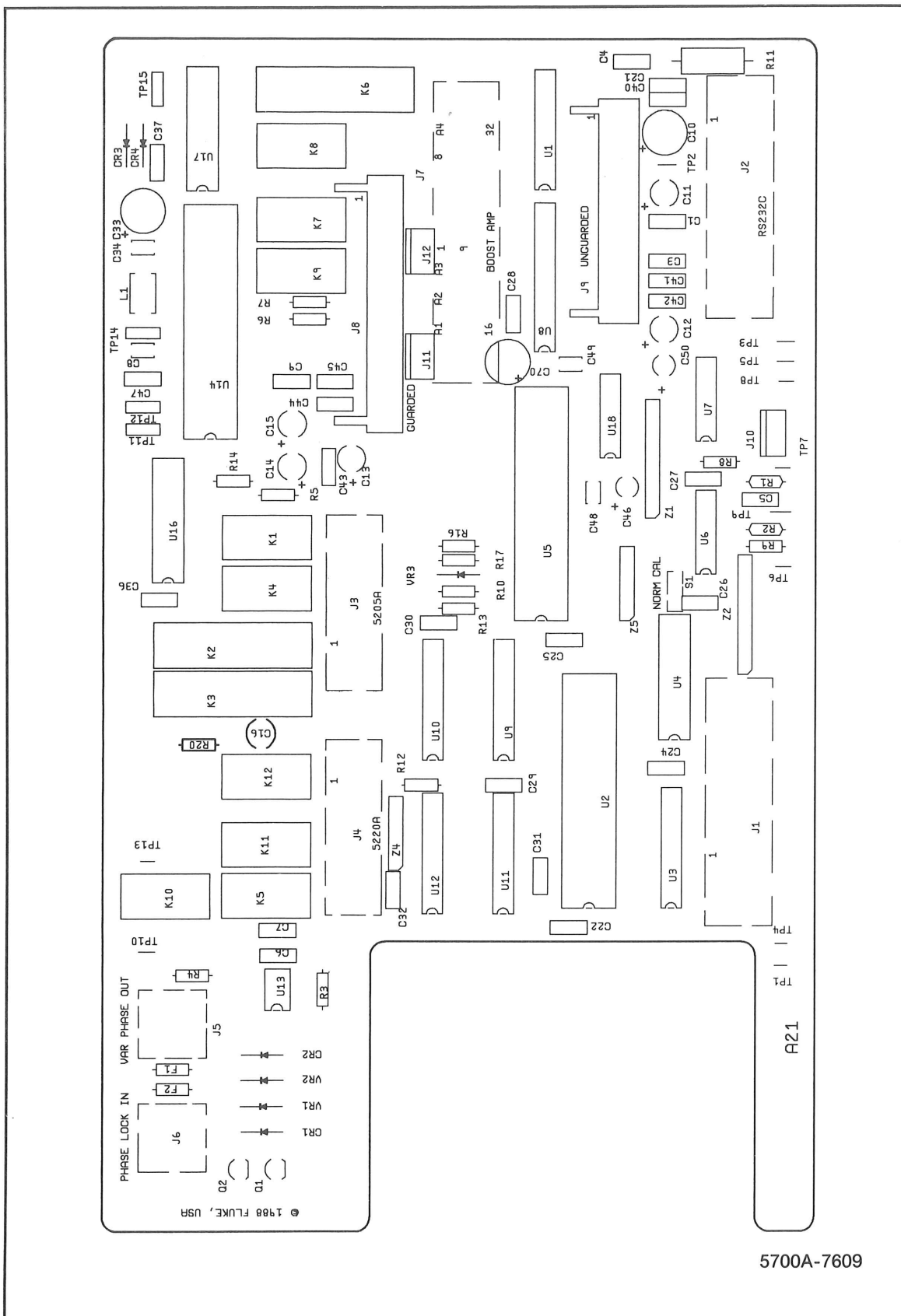


Figure 6-26. A21 Rear Panel PCA

MANUFACTURER'S FEDERAL SUPPLY CODES

S3385 Sanken U.S.A. Hoffman Estates, IL	02735 RCA-Solid State Div. Somerville, NJ	07910 Teledyne Semiconductor Mountain View, CA	17856 Siliconix Inc. Santa Clara, CA
S4238 Stanley Electric Huntington Beach, CA	03296 Nylon Molding Corp. Monrovia, CA	08718 ITT Cannon Electric Phoenix Division Phoenix, AZ	18324 Signetics Corporation Sacramento, CA
S4821 Tocos Arlington Heights, IL	03508 General Electric Co. Semiconductor Products & Batteries Auburn, NY	09214 General Electric Co. Semiconductor Products Auburn, NY	19647 Caddock Electronics Inc. Riverside, CA
0BW21 Noritake Company Inc. Burlington, MA	04222 AVX Corporation AVX Ceramics Div. Myrtle Beach, SC	10389 IL Tool Works Inc. Licon Division Chicago, IL	19701 Philips Components Mineral Wells, TX
0CLN7 Emhart Fastening Group Shelton, CT	04713 Motorola Inc. Semiconductor Group Phoenix, AZ	11532 Teledyne Relays Teledyne Industries Inc. Hawthorne, CA	21845 Solitron Devices Inc. Semiconductor Group Rivera Beach, FL
0GZV8 Huber & Suhner Inc. Auburn, MA	05276 ITT Pomona Electronics Division Pomona, CA	12040 National Semiconductor Corporation Danbury, CT	22526 DuPont, El DeNemours & Co., Inc. DuPont Connector Systems Advanced Products Div. New Cumberland, PA
00199 Marcon Electronics Corp. Kearny, NJ	05347 Ultronix Inc. Grand Junction, CO	12581 Hitachi Metals International Hitachi Magna-Lock Div. Big Rapids, MO	23237 I.R.C., Inc. Microcircuits Division Philadelphia, PA
00779 AMP, Inc. Harrisburg, PA	05397 Union Carbide Corp. Materials Systems Div. Cleveland, OH	12969 Unitrode Corporation Lexington, MA	23783 Brel Intl. Components Sarasota, FL
01121 Allen Bradley Co. Milwaukee, WI	06383 Panduit Corporation Tinley Park, IL	13103 Thermalloy Co., Inc. Dallas, TX	24347 Penn Engineering Co. South El Monte, CA
01281 TRW Electronics & Defense Sector R F Devices Lawndale, CA	06665 Precision Monolithics Sub. of Bourns Inc. Santa Clara, CA	13919 Burr-Brown Research Corp. Tucson, AZ	24355 Analog Devices Inc. Norwood, MA
01295 TX Instruments Inc. Semiconductor Group Dallas, TX	06915 Richco Plastic Co. Chicago, IL	14099 Semtech Corporation Newbury Park, CA	24444 General Semiconductor Industries, Inc. Tempe, AZ
02114 Amperex Electronic Corp. Ferrox Cube Div. Saugerties, NY	07047 Ross Milton Co., Inc. Southampton, PA	14329 Wells Electronics Inc. South Bend, IN	24759 Lenox-Fugle Electronics Inc. South Plainfield, NJ
02660 Bunker Ramo-Eltra Corp. Amphenol NA Div. Broadview, IL	07263 Fairchild Semiconductor North American Sales Ridgeview, CT	14552 Microsemi Corp. (formerly: Micro-Semi- Conductor Corp.) Santa Ana, CA	24931 Specialty Connector Co. Greenwood, IN

LIST OF REPLACEABLE PARTS

MANUFACTURER'S FEDERAL SUPPLY CODES (cont)

25088 Siemen Corp. Isilen, NJ	34333 Silicon General Inc. Garden Grove, CA	55464 Central Semiconductor Corp. Hauppauge, NY	61429 Fox Electronics Cape Coral, FL
27014 National Semiconductor Corporation Santa Clara, CA	34371 Harris Corporation Harris Semiconductor Products Group Melbourne, FL	55566 RAF Electronic Hardware Seymour, CT	61529 Aromat Corporation New Providence, NJ
27264 Molex Inc. Lisle, IL	40402 Roderstein Electronics Inc. Statesville, NC	56289 Sprague Electric Co. North Adams, MA	62643 United Chemicon Rosemont, IL
28198 Positronic Industries Springfield, MO	40551 Milford Rivet & Machine Co. Milford, CT	57668 Rohm Corporation Irvine, CA	64155 Linear Technology Milpitas, CA
28213 MN Mining & Mfg. Co. Consumer Products Div. 3M Center Saint Paul, MN	5W664 N.D.K. Div. of Nihon Dempa Kogyo Lynchburg, VA	57962 SGS - Thomson Microelectronics Montgomeryville, PA	64762 Elantec Inc. Milpitas, CA
28480 Hewlett Packard Co. Corporate HQ Palo Alto, CA	50579 Litronix Inc. Cupertino, CA	59124 KOA-Speer Electronics Inc. Bradford, PA	65940 Rohm Corp. & Whatney Irvine, CA
30161 Aavid Engineering Inc. Laconia, NH	51406 Murata Erie North America Inc. Symrna, GA	59640 Supertex Inc. Sunnyvale, CA	66419 Exel San Jose, CA
30800 General Instrument Corp. Capacitor Division Hicksville, NY	51984 NEC America Inc. Falls Church, VA	59660 Tusonix Inc. Tucson, AZ	66891 BKC Intl. Electronics Lawrence, MA
31433 Kemet Electronics Corp. Simpsonville, NC	52500 Amphenol RF Operations Burlington, MA	59730 Thomas and Betts Corp. Iowa City, IA	67237 SAFT America Inc. Portable Battery Div. Valdosta, GA
32559 Bivar Santa Ana, CA	53222 Thayer Coggin Inc. High Point, NC	60046 Power Dynamics Inc. West Orange, NJ	68919 WIMA Harry Levinson Co. Seattle, WA
33025 M/A ComOmni Spectra, Inc. (Replacing Omni Spectra) Microwave Subsystems Div. Tempe, AZ	54583 TDK Garden City, NY	60705 Cera-Mite Corp. (formerly: Sprague) Grafton, WI	70903 Cooper-Belden Corp. Geneva, IL
33297 NEC Electronics USA Inc. Electronic Arrays Inc. Div. Mountain View, CA	54590 RCA Corporation Dist. & Special Products Cherry Hill, NY	60935 Westlake Capacitor Inc. Tantalum Division Greencastle, IN	71400 Bussman Manufacturing Div. McGraw-Edison Co. St. Louis, MO
	55285 Bercquist Co. Minneapolis, MN	61058 Matsushita Electric Corp. of America Panasonic Industrial Co. Div. Secaucus, NJ	71450 CTS Corp. Elkhart, IN

MANUFACTURER'S FEDERAL SUPPLY CODES (cont)

71643 CHR Industries Inc. New Haven, CT	78982 Kingscott Assoc., Inc. Kalamazoo, MI	86928 Seastrom Mfg. Co. Inc. Glendale, CA	91833 Keystone Electronics Corp. New York, NY
71707 Coto Corporation Providence, RI	79727 C - W Industries Southampton, PA	88245 Winchester Electronics Litton Systems-Useco Div. Van Nuys, CA	91836 King's Electronics Co., Inc. Tuckahoe, NY
72884 Donell Co., Inc. Altoona, IA	79963 Zierick Mfg. Corp. Mount Kisco, NY	88690 Essex Group Inc. Wire Assembly Div. Dearborn, MI	91984 Maida Development Co. Hampton, VA
73734 Federal Screw Products Inc. Chicago, IL	80031 Mepco/Electra Inc. Morristown, NJ	89536 John Fluke Mfg. Co., Inc. Everett, WA	93790 Cornell Dublier Electronics New Bedford, MA
74840 Illinois Capacitor Inc. Lincolnwood, IL	80294 Bourns Instruments Inc. Riverside, CA	9W423 Amatom El Mont, CA	95146 Alco Electronic Products Inc. Switch Division North Andover, MA
74970 Johnson EF Co. Waseca, MN	81439 Therm-O-Disc Inc. Mansfield, OH	91506 Augat Alcoswitch North Andover, MA	98291 Sealectro Corp. BICC Electronics Trumbull, CT
77342 AMF Inc. Potter & Brumfield Div. Princeton, IN	83330 Kulka Smith Inc. A North American Philips Co. Manasquan, NJ	91637 Dale Electronics Inc. Columbus, NE	98978 I.E.R.C. (International Electronic Research Corporation) Burbank, CA
78189 IL Tool Works Inc. Shakeproof Div. Elgin, IL	84411 American Shizuki TRW Capacitors Div. Ogallala, NE		

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