

SECTION V

REPLACEMENT PARTS LIST

5.1 UNIT NUMBERING METHOD

The unit numbering method of assigning reference designations (electrical symbol numbers) has been used to identify assemblies, subassemblies (and modules) and parts. An example of the unit numbering method follows:

<u>Subassembly Designation</u>	<u>A1</u>	<u>R1</u>	<u>Class and No. of Item</u>
Identify from right to left as:		First (1) resistor (R) of first (1) subassembly (A)	

As shown on the main chassis schematic, components which are an integral part of the main chassis have no subassembly designation.

5.2 REFERENCE DESIGNATION PREFIX

Partial reference designations have been used on the equipment and on the illustrations in this manual. The partial reference designations consist of the class letter(s) and identifying item number. The complete reference designations may be obtained by placing the proper prefix before the partial reference designations. Reference Designation Prefixes are provided on drawings and illustrations in parentheses within the figure titles.

5.3 LIST OF MANUFACTURERS

<u>Mfr. Code</u>	<u>Name and Address</u>	<u>Mfr. Code</u>	<u>Name and Address</u>
00779	AMP, Incorporated P.O. Box 3608 Harrisburg, PA 17105	02735	RCA Corporation Solid State Division Route 202 Somerville, NJ 08876
01121	Allen-Bradley Company 1201 South 2nd Street Milwaukee, WI 53204	04013	Taurus Corporation 1 Academy Hill Lambertville, NJ 08530
01295	Texas Instruments, Inc. Semiconductor-Components Div. 15300 North Central Expressway Dallas, TX 75231	04713	Motorola Incorporated Semiconductor Products Div. 5005 East McDowell Road Phoenix, AZ 85008
02114	Ferroxcube Corporation P.O. Box 359 Mt. Marion Road Saugerties, NY 12477	06978	Vernitron Corp. AIE Div. 701 Murfreesboro Rd. Nashville, TN 37210

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

<u>Mfr. Code</u>	<u>Name and Address</u>	<u>Mfr. Code</u>	<u>Name and Address</u>
07263	Fairchild Camera & Instr. Corp. Semiconductor Division 464 Ellis Street Mountain View, CA 94040	17856	Siliconix, Inc. 2201 Laurelwood Road Santa Clara, CA 95050
07388	Toretel Incorporated 13402 South 71 Highway Grandview, MO 64030	18324	Signetics Corporation 811 East Arques Avenue Sunnyvale, CA 94086
09021	Airco Inc. Airco Electronics Bradford, PA 17055	18565	Chomerics Inc. Woburn, MA 01801
09353	C & K Components, Inc. 103 Morse Street Watertown, MA 02172	18714	RCA Corporation Solid State Division Fostoria Road Findlay, OH 45840
12498	Teledyne Crystalonics 147 Sherman Street Cambridge, MA 02140	19080	Robison Electronics Inc. 3580 Sacramento Dr. P.O. Box Y San Luis Obispo, CA 93406
13103	Thermalloy Company 2021 W. Valley View Lane Dallas, TX 75234	19209	General Electric Company Battery Business Department P.O. Box 114 Gainesville, FL 32602
14632	Watkins-Johnson Company 700 Quince Orchard Road Gaithersburg, MD 20878	19505	Applied Eng. Products, Co. Division of Samariou, Inc. 300 Seymour Avenue Derby, CT 06418
14655	Cornell-Dubilier Electronics Div. of Federal Pacific Electric Company 150 Avenue L Newark, NJ 07101	21604	The Buckeye Stamping Co. 555 Marion Road Columbus, OH 43207
15818	Teledyne Semiconductor Teledyne Inc. Company 1300 Tera Bella Ave. Mountain View, CA 94043	22526	Du Pont El De Nemours and Co. Inc. Photo Products Dept. Berg Electronics Div. Route 83 New Cumberland, PA 17070
16428	Belden Corporation P.O. Box 1101 Richman, IN 47374	25088	Siemens America, Inc. 186 Wood Avenue S. Iselin, NJ 08830

WJ-8718 SERIES HF RECEIVER

REPLACEMENT PARTS LIST

<u>Mfr. Code</u>	<u>Name and Address</u>	<u>Mfr. Code</u>	<u>Name and Address</u>
27014	National Semi-Conductor Corp. 2950 San Ysidro Way Santa Clara, CA 95051	72982	Erie Technological Prod., Inc. 644 West 12th Street Erie, PA 16512
27956	Relcom 3333 Hillview Avenue Palo Alto, CA 94304	73138	Beckman Instruments, Inc. Helipot Division 2500 Harbor Boulevard Fullerton, CA 92634
28480	Hewlett-Packard Company Corporate Headquarters 1501 Page Mill Road Palo Alto, CA 94304	74306	Piezo Crystal Company 100 K Street Carlisle, PA 17013
31918	IEE/Schadow Incorporated 8081 Wallace Road Eden Prairie, MN 55343	74868	Bunker Ramo Corporation The Amphenol RF Division 33 East Franklin Street Danbury, CT 06810
33095	Spectrum Control, Inc. 152 E. Main Street Fairview, PA 16415	75042	TRW Electronic Components IRC Fixed Resistors 401 North Broad Street Philadelphia, PA 19108
52673	KSW Electronics Corp. Burlington, MA 01803	75915	Littlefuse, Incorporated 800 E. Northwest Highway Des Plaines, IL 60016
56289	Sprague Electric Company Marshall Street North Adams, MA 01247	80058	Joint Electronic Type Designation System
71279	Cambridge Thermionic Corp. 445 Concord Avenue Cambridge, MA 02138	80103	Lambda Electronics Corp. Div. of Veeco Instr., Inc. 51 Broad Hollow Road Melville, NY 11746
71400	Bussman Manufacturing Division of McGraw-Edison Co. 2536 W. University Street St. Louis, MO 63107	80131	Electronic Industries Assoc. 2001 Eye Street, N.W. Washington, DC 20006
71785	TRW Electronic Components Cinch Connector Operations 1501 Morse Avenue Elk Grove Village, IL 60007	81312	Winchester, Electronics Division of Litton Ind. Oakville, CT 06779
72136	Electro Motive Mfg. Co., Inc. South Park & John Streets Willimantic, CT 06226	81349	Military Specifications

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

<u>Mfr. Code</u>	<u>Name and Address</u>	<u>Mfr. Code</u>	<u>Name and Address</u>
81350	Joint Army-Navy Specifications	93332	Sylvania Elec. Products, Inc. Semiconductor Products Div. 100 Sylvan Road Woburn, MA 01801
82389	Switchcraft, Incorporated 5555 North Elston Avenue Chicago, IL 60630	93958	Republic Electronics Corp. 176 East 7th Street Paterson, NJ 07524
84411	TRW Electric Components TRW Capacitors 112 W. First Street Ogallala, NE 69153	95121	Quality Components, Inc. P.O. Box 113 St. Mary's, PA 15857
88245	Litton Industries USECO Division 13536 Saticoy Street Van Nuys, CA 91409	96733	San Fernando Electric Mfg. Co. San Fernando, CA 91341
91293	Johanson Manufacturing Co. P.O. Box 329 Boonton, NJ 07005	98291	Sealelectro Corporation 225 Hoyt Mamaroneck, NY 10544
91418	Radio Materials Company 4242 West Bryn Mawr Avenue Chicago, IL 60646	98978	International Electronic Research Corporation 135 West Magnolia Blvd. Burbank, CA 91502
91984	Maida Development Co. 205 Libby P.O. Box 3529 Hampton, VA 23663	99800	American Precision Industries Delevan Electronics Division 270 Quaker Road East Aurora, NY 14052
92825	Whitso Incorporated 93330 Bryon Street Schiller Park, IL 60176	99848	Wilco Corporation 4030 West 10th Street P.O. Box 22248 Indianapolis, IN 46222

5.4

PARTS LIST

The parts list which follows contains all electrical parts used in the equipment and certain mechanical parts which are subject to unusual wear or damage. When ordering replacement parts from Watkins-Johnson Company, specify the type and serial number of the equipment and the reference designation and description of each part ordered. The list of manufacturers provided in paragraph 5.3 and the manufacturer's part number for components are included as a guide to the user of the equipment in the field. These parts may not necessarily agree with the parts installed in the equipment; however, the parts specified in this list will provide satisfactory operation of the equipment. Replacement parts may be obtained from any manufacturer as long as the physical and electrical parameters of the part selected agree with the original indicated part. In the case of components defined by a military or industrial specification, a vendor which can provide the necessary component is suggested as a convenience to the user.

NOTE

As improved semi-conductors become available, it is the policy of Watkins-Johnson to incorporate them in proprietary products. For this reason some transistors, diodes, and integrated circuits installed in the equipment may not agree with those specified in the parts list and schematic diagrams of this manual. However, the semi-conductors designated in the manual may be substituted in every case with satisfactory results.

5.5

ASSEMBLY REVISION LEVEL

The purpose of the Assembly Revision Level is to identify the "as built" configuration of an assembly or subassembly. The parts list and illustrations that follow, depict the revision levels of the assemblies and subassemblies at the time of preparation of the manual, which may or may not agree with the purchased equipment. However, they will serve as a guide for any necessary maintenance to be performed. Refer to Table 5-1 for the equipment assembly revision level record(s).

Table 5-1. Equipment Assembly Revision Level Record

TYPE NUMBER	REF DESIG	DESCRIPTION	ASSY. REV LEVEL
WJ-8718		HF Receiver, Main Chassis	E
WJ-8718-9		HF Receiver, Main Chassis	E
WJ-8718A		HF Receiver, Main Chassis	A
76240	A1	Power Distribution	B
791616-1	A2	RF Filter Assembly	A
280093	A2A1	30 MHz Low Pass Filter	A
791592-1	A3	Input Converter	B
370611-1	A3A1	1st Mixer/1st IF	A
370646-1	A3A2	2nd Mixer/2nd IF	A
791569-1	A4	IF Motherboard	A
791594-1	A4A1	10.7 MHz Filter Switch	C
71430-1	A4A2	10.7 MHz/455 kHz Converter	A
791595-1	A4A3	455 kHz Filter Switch	A
791596-1	A4A4	USB Filter Switch	A
791597-1	A4A5	ISB/LSB Filter Switch	B
78112-1	A4A6	AGC Amplifier	A
72488-1	A4A7	455 kHz Amplifier/Am Detector	A
791598-1	A4A8	ISB Detector/Audio	B
791599-1	A4A9	FM, CW and SSB Detector	B
746001-1	A4A10	Audio Amplifier	A
791570-1	A5	Synthesizer Motherboard	B
791630-1	A5A1	1st & 3rd LO Synthesizer/Timebase	C
791629	A5A1A1	1st LO/VCO Assembly	B
34750	A5A1A1A1	1st LO VCO P.C. Assembly	A
791600-1	A5A1A2	1st & 3rd LO Synthesizer	D
791601	A5A2	2nd LO Synthesizer	A
791576-1	A5A3	BFO Synthesizer	A
791580	A6	I/O Motherboard	B
791575-3	A6A1	Manual Tuning Up/Down Counter	A
791828-1	A6A2	Front Panel Interconnect	A
791874-1	A7	Manual Tuning Module	A
791589	A7A1	Tuning Resolution	A
791578-1	A8	Frequency Display	B
791827	A9	BFO Switch	A
791684-2	A10 (1)	Front Panel Control	A
796053	A10 (2)	Front Panel Control	A
791583	A10A1	Upper Panel Control	B
791826	A10A2 (1)	Lower Panel Control	B
796054	A10A2 (2)	Lower Panel Control	B
(1) WJ-8718 (2) WJ-8718-9 and WJ-8718A			

5.6

TYPES WJ-8718, WJ-8718-9 AND WJ-8718A HF RECEIVER, MAIN CHASSIS

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	Power Distribution	1	76240	14632	
A2	Input Filter	1	791616	14632	
A3	Input Converter	1	791592	14632	
A4	IF Motherboard	1	791569	14632	
A5	Synthesizer Motherboard	1	791570	14632	
A6	I/O Motherboard	1	791580	14632	
A7*	Manual Tuning Module (Not optional on WJ-8718A)	1	791874-1	14632	
A8	Frequency Display	1	791578	14632	
A9	BFO Switch	1	791827	14632	
A10	Front Panel Control (WJ-8718 only)	1	791684-2	14632	
A10	Front Panel Control (WJ-8718-9 and WJ-8718A only)	1	796053	14632	
BT1	Battery	1	41B901BD16G1	19209	
C1	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	4	34475-1	14632	
C2	Same as C1				
C3	Same as C1				
C4	Same as C1				
C5	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	2	34452-1	14632	
C6	Same as C5				
C7	Capacitor, Feedthru: 0.01 μ F, 20%, 600 V	6	F1A6103K	96733	
C8 Thru C12	Same as C7				
C13	Not Used				
C14	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V (WJ-8718-9 and WJ-8718A only)	1	34453-1	14632	
CR1	Diode	2	1N1614	80131	02735
CR2	Same as CR1				
E1	Terminal, Standoff	3	7A1A1	92825	
E2	Same as E1				
E3	Same as E1				
E4	Terminal, Standoff	1	160-2381-01-05-00	71279	
E5	Terminal, Feedthru (WJ-8718 and WJ-8718-9 only)	4	SFU16Y	04013	
E5	Terminal, Feedthru (WJ-8718A only)	7	SFU16Y	04013	
E6 Thru E8	Same as E5				
E9	Same as E5 (WJ-8718A only)				
E10	Same as E5 (WJ-8718A only)				
F1	Fuse Cartridge: 1 AMP, 3 AG Slow-blow	1	MDL1	71400	
F2	Fuse Cartridge: 1/2 AMP, 3 AG, Slow-blow	1	MDL1/2	71400	
* Part of MCM-2 Option.					

FIGURE 5-1
FIGURE 5-2

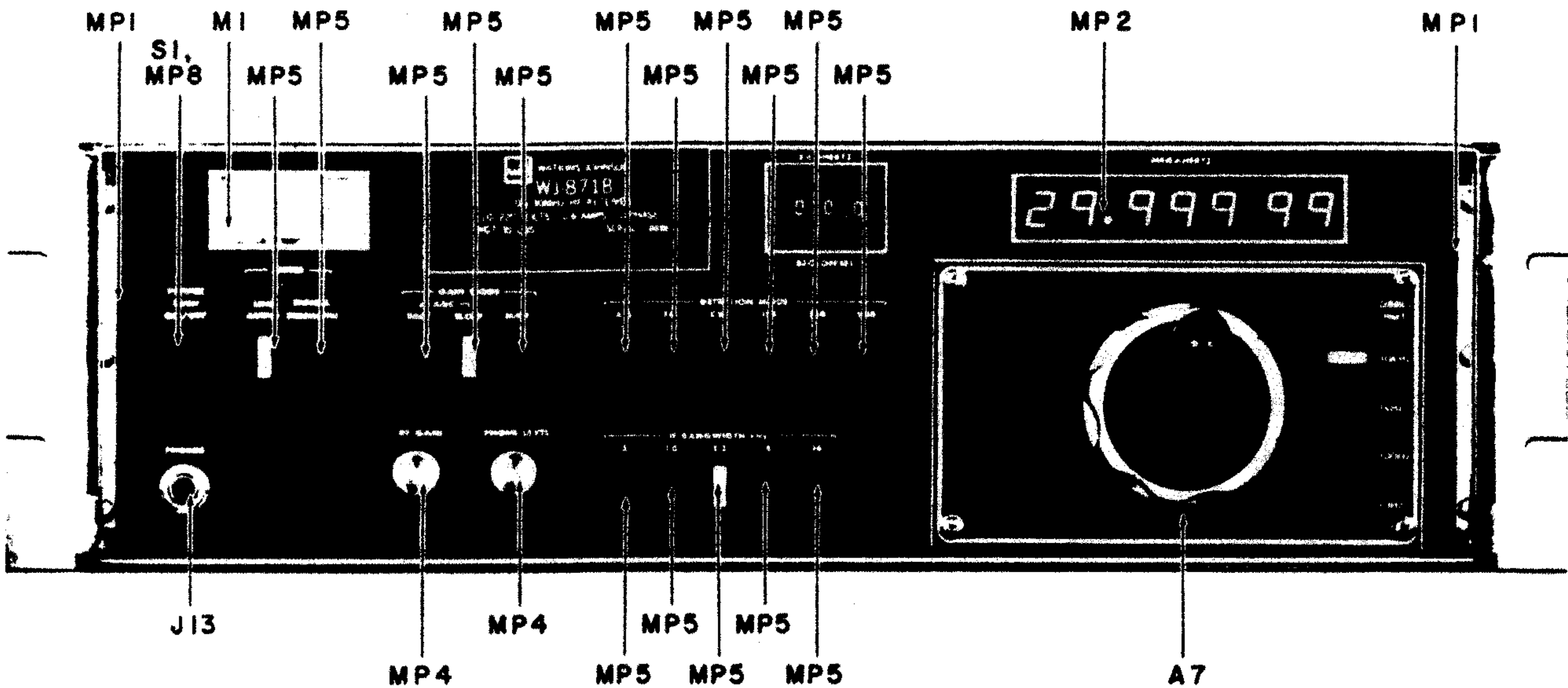


Figure 5-1. WJ-8718 HF Receiver, Front Panel,
Location of Components

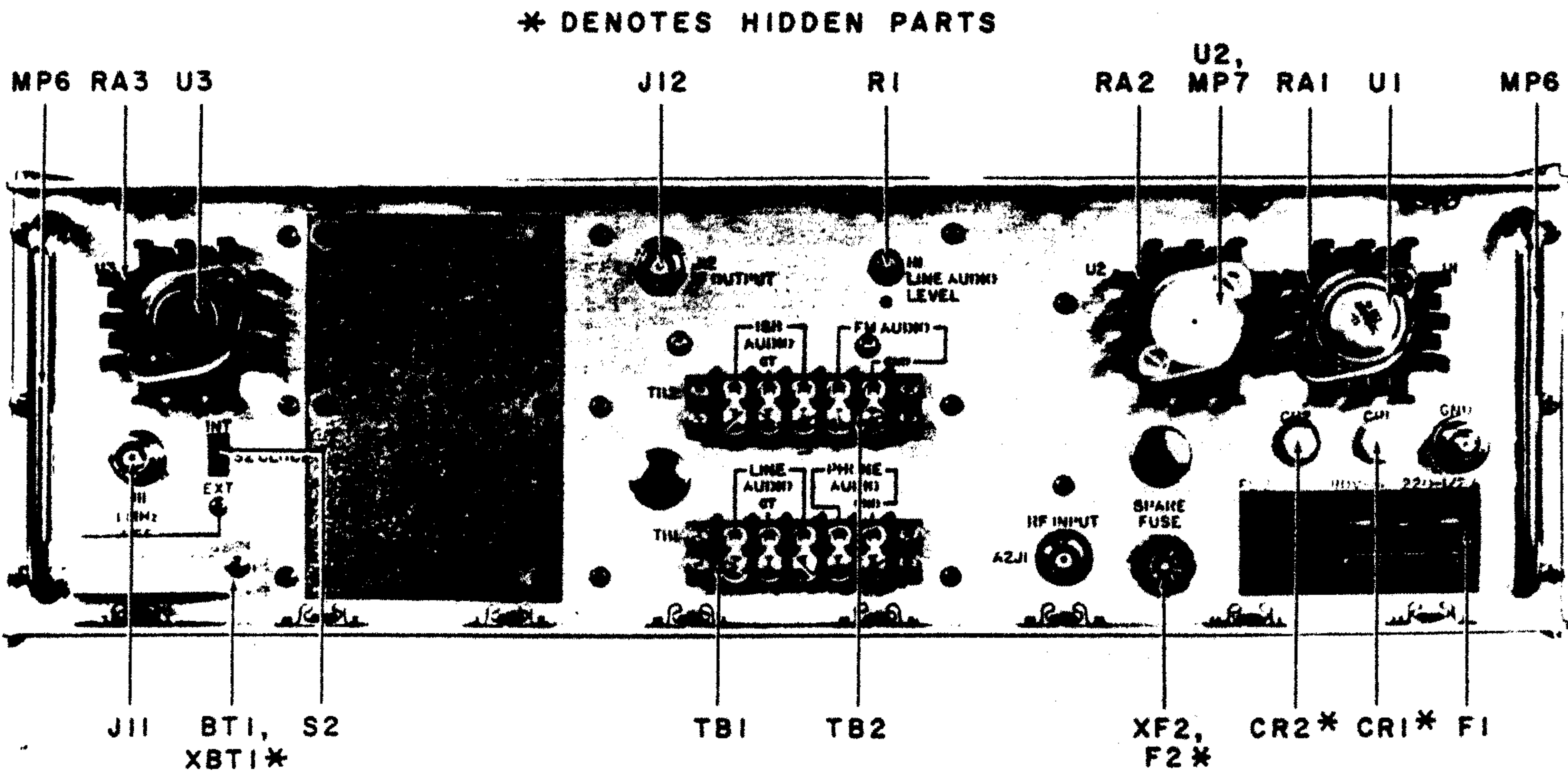


Figure 5-2. WJ-8718 HF Receiver, Rear Panel,
Location of Components

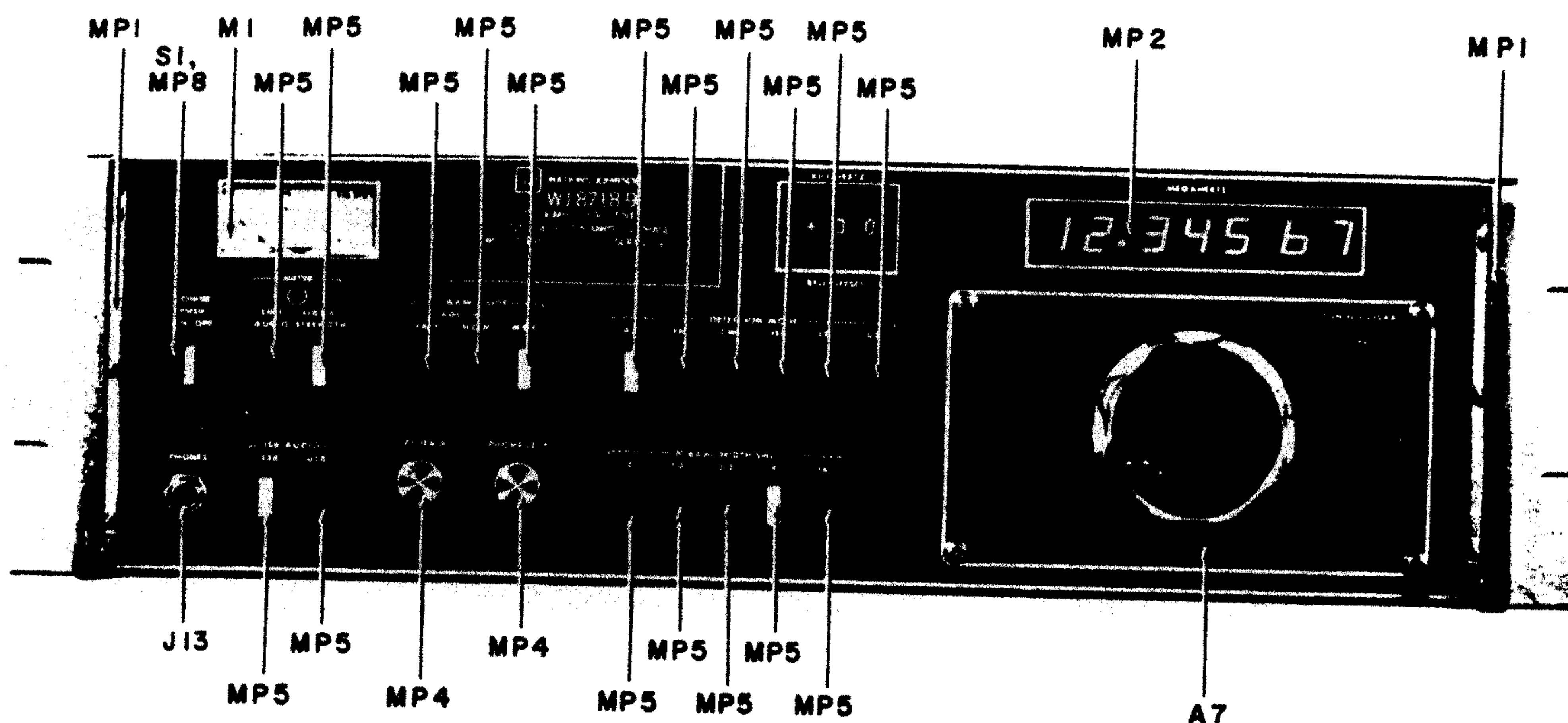


Figure 5-3. WJ-8718-9 HF Receiver, Front Panel,
Location of Components

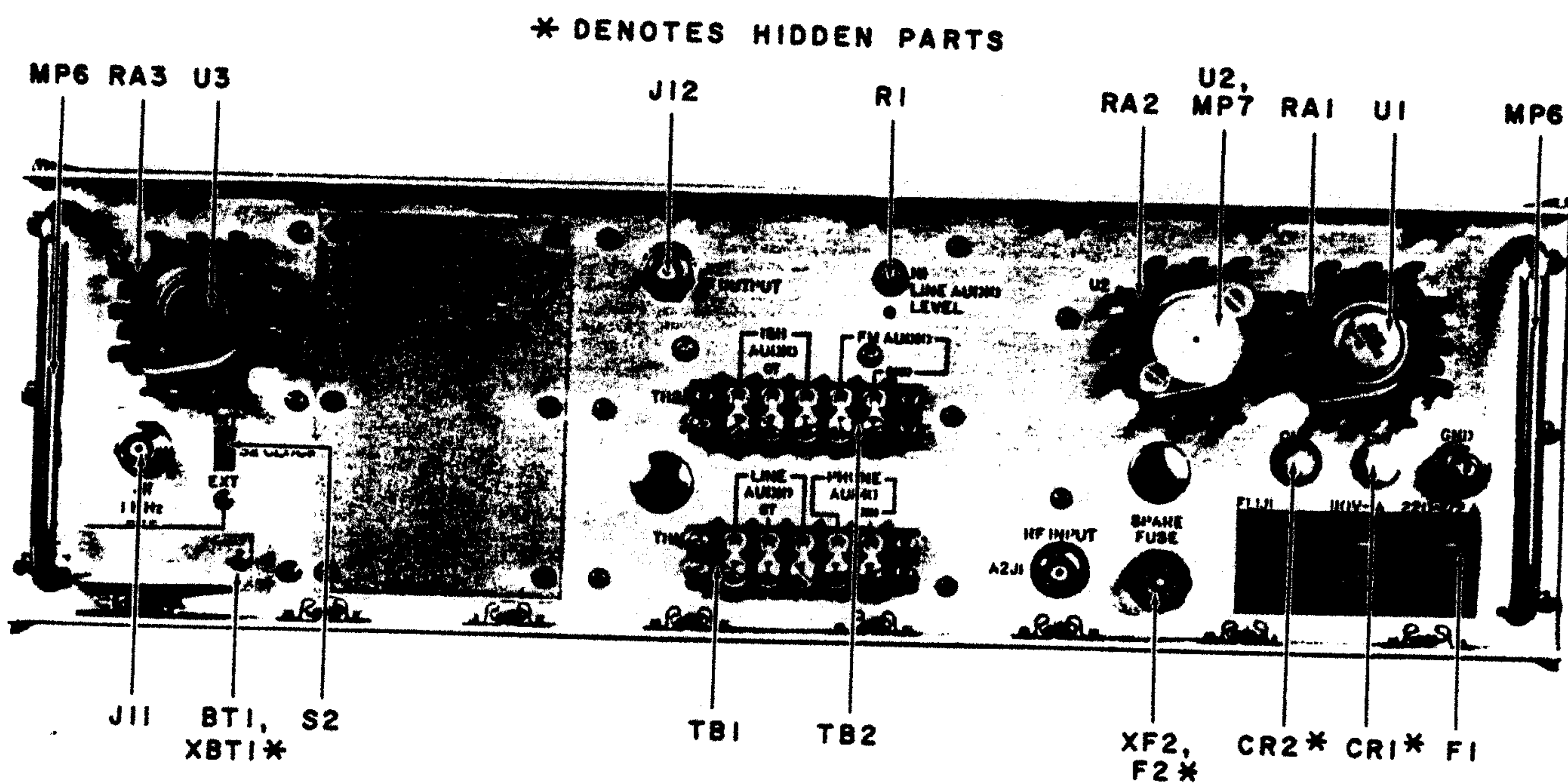


Figure 5-4. WJ-8718-9 HF Receiver, Rear Panel,
Location of Components

FIGURE 5-5
FIGURE 5-6

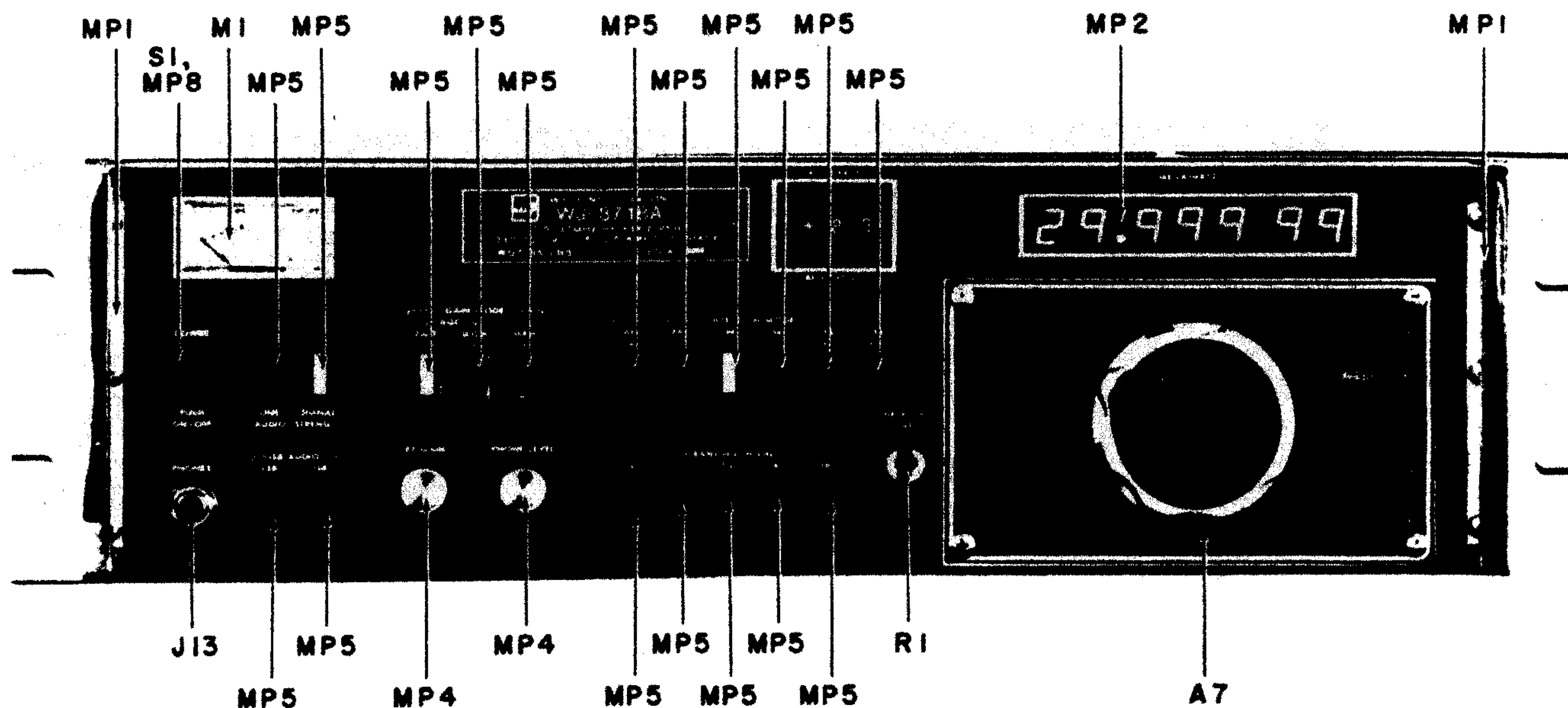


Figure 5-5. WJ-8718A HF Receiver, Front Panel, Location of Components

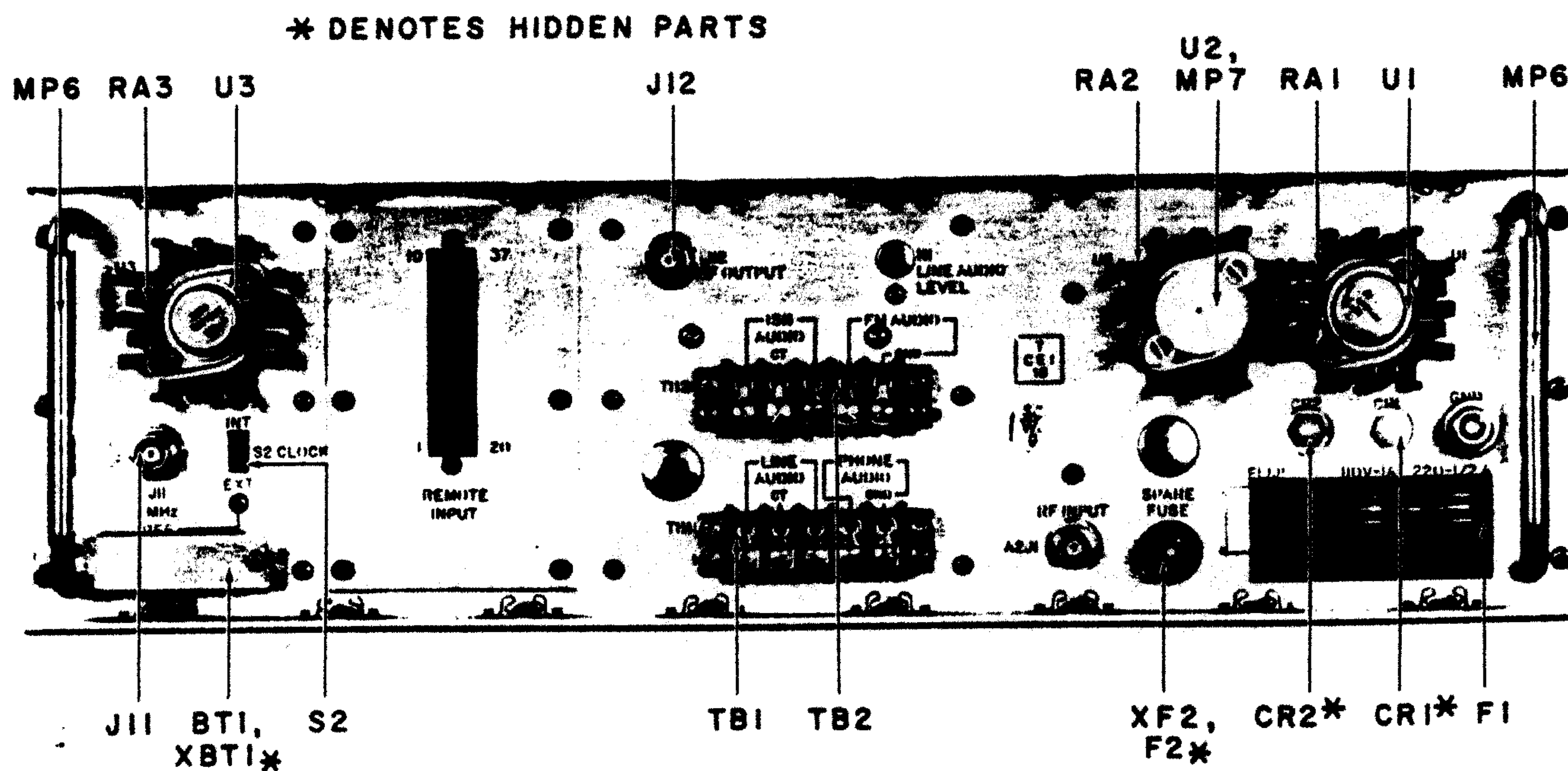


Figure 5-6. WJ-8718A HF Receiver, Rear Panel, Location of Components

MAIN CHASSIS

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
FL1	Filter, Power	1	34505-1	14632	
FL2	Filter, Mono	1	92241	14632	
J1	Connector, Plug: SMC Series	8	UG1468/U	80058	19505
J2	Connector, Receptacle	1	205203-1	00779	
J3	Same as J1				
J4	Same as J1				
J5	Same as J1				
J6	Not Used				
J7	Same as J1				
J8	Same as J1				
J9	Same as J1				
J10	Same as J1				
J11	Connector, Receptacle: BNC Series	2	225398-7	00779	
J12	Same as J11				
J13	Connector, Phone Jack				
M1	Meter	1	L12B	82389	
MP1	Handle, Front Panel	1	34455-1	14632	
MP2	Display Window	2	32306-1	14632	
MP3	Housing, Receptacle (WJ-8718 and WJ-8718-9 only)	1	18390-1	14632	
MP3	Housing, Receptacle (WJ-8718A only)	30	1-480417-0	00779	
MP4	Knob, Round, Indicator Dot	31	1-480417-0	00779	
MP5	Button, Black Shell with Yellow Indicator (WJ-8718)	2	PS70D1/B	21604	
MP5	Button, Black Shell with Yellow Indicator (WJ-8718A and WJ-8718-9 only)	16	FA101-BLK/YEL	31918	
MP6	Handle, Round, Rear Panel	18	FA101-BLK/YEL	31918	
MP7	Cover, Transistor	2	B1012-12	88245	
MP8	Button, Black Shell with Red Indicator	1	8903NW	13103	
MP9	Cover Assembly, Top (WJ-8718 and WJ-8718-9 only)	1	FA101-BLK/RED	31918	
MP9	Cover Assembly, Top (WJ-8718A only)	1	580031-1	14632	
MP10	Cover Assembly, Bottom (WJ-8718 & WJ-8718-9 only)	1	580048-4	14632	
MP10	Cover Assembly, Bottom (WJ-8718A only)	1	580031-2	14632	
P1	Connector, Plug	1	580048-5	14632	
P2	Connector, Plug				
P3	Connector, Plug: SMC Series				
P4	Same as P3	7	UG1466/U	80058	19505
P5	Same as P3				
P6	Faston, Receptacle (WJ-8718 and WJ-8718-9 only)	30	42236-1	00779	
P6	Faston, Receptacle (WJ-8718A only)	33	42236-1	00779	
P7	Same as P3				
P8	Same as P3				
P9	Connector, Plug: SMC Series				

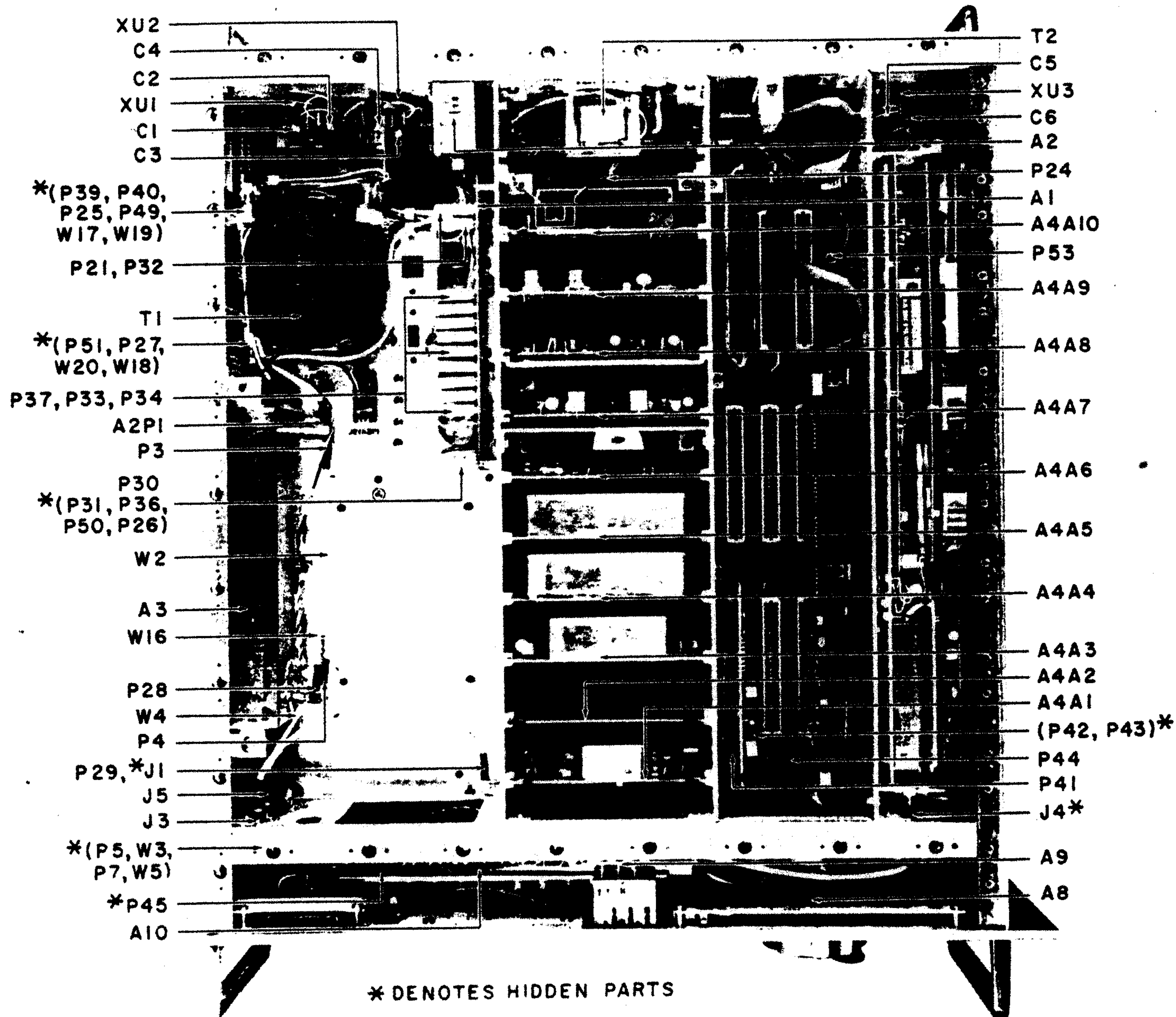


Figure 5-7. WJ-8718 Series HF Receiver. Top View.
Location of Components

MAIN CHASSIS

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
P10	Same as P9				
P11	Same as P9				
P12	Same as P9				
P13	Plug Assembly	1	34704-1	14632	
P14	Plug Assembly	1	87499-5	00779	
P15	Same as P14				
P16	Same as P14				
P17	Same as P14				
P18	Same as P14				
P19	Same as P14				
P20	Same as P14				
P21	Same as P6				
P22	Plug Assembly	1	34529-2	14632	
P23	Plug Assembly	1	34529-3	14632	
P24	Plug Assembly (WJ-8718 and WJ-8718-9 only)	1	43594-1	14632	
P24	Plug Assembly (WJ-8718A only)	1	470487-1	14632	
P25	Connector, Plug Faston	11	2-350804-2	00779	
P26	Same as P6				
P27	Same as P25				
P28	Same as P3				
P29	Same as P3				
P30	Same as P6				
P31	Same as P6				
P32	Same as P6				
P33					
Thru	Same as P6				
P36					
P37	Not Used				
P38	Same as P6				
P39	Same as P25				
P40	Same as P25				
P41					
Thru	Same as P6				
P47					
P48	Plug Assembly	1	34529-1	14632	
P49	Same as P25				
P50	Same as P6				
P51	Same as P25				
P52	Connector, Plug (WJ-8718A only)	1	1-87456-2	00779	
P53	Same as P6 (WJ-8718A only)				
P54	Plug Assembly (WJ-8718A only)	1	34529-4	16432	
P55	Same as P6 (WJ-8718A only)				
P56	Connector, MINI (WJ-8718A only)	1	65051-034	22526	

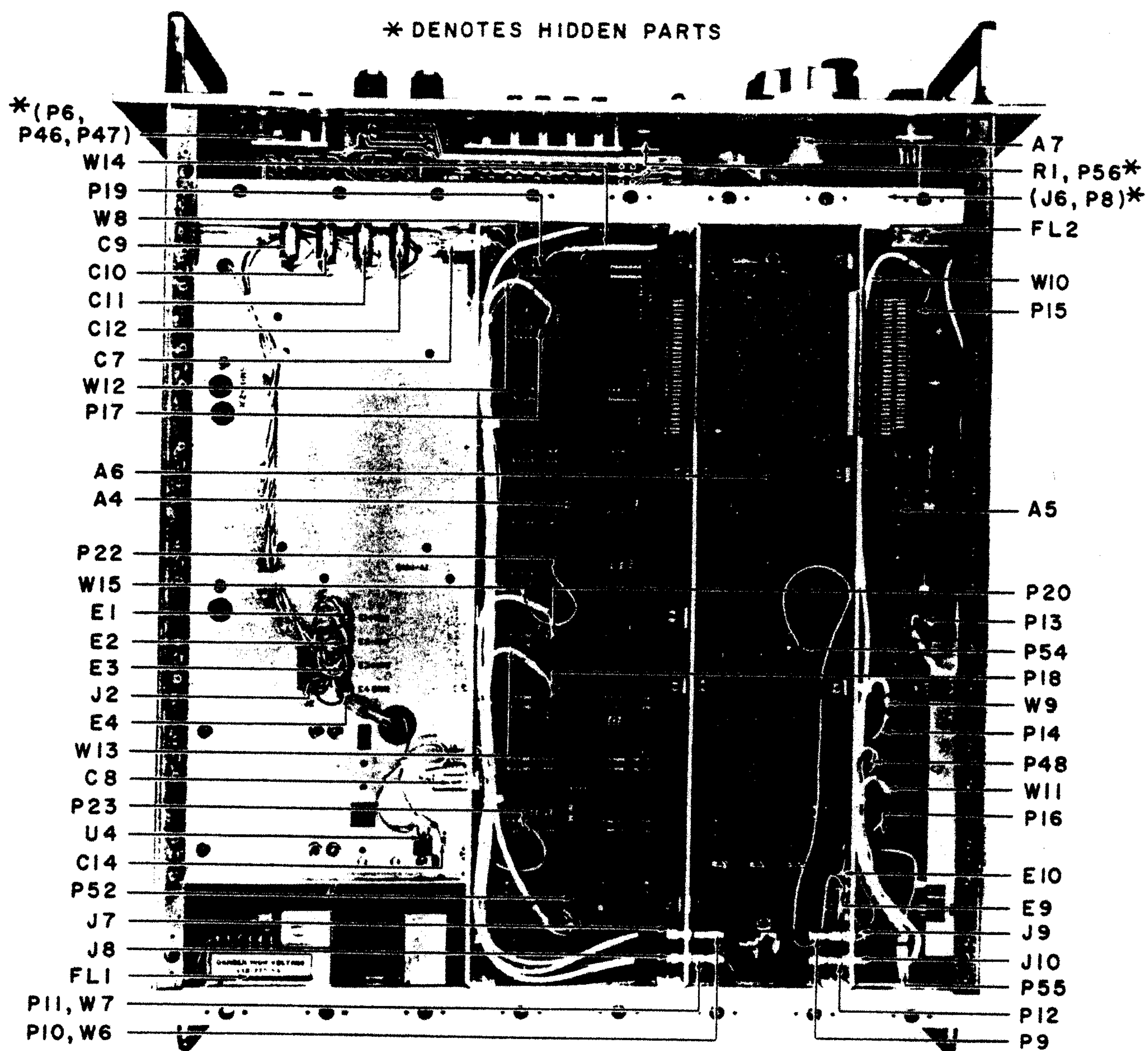


Figure 5-8. WJ-8718 Series HF Receiver, Bottom View,
Location of Components

MAIN CHASSIS

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R1	Resistor, Variable, Composition: 25 k Ω , 10%, 1 W	1	70A3L036L253A		
R2	Not Used				
RA1	Radiator, Heat	3	UP2-T03-CB	98978	
RA2	Same as RA1				
RA3	Same as RA1				
S1	Switch, Pushbutton	1	18542	14632	
S2	Switch, Slide	1	11A1211	82389	
T1	Transformer, Power	1	380083	14632	
T2	Transformer, Audio	1	841004	14632	
TB1	Terminal Board	2	353-18-05-001		
TB2	Same as TB1				
U1	Voltage Regulator (WJ-8718 and WJ-8718-9 only)	1	LAS15A15	80103	
U1	Voltage Regulator (WJ-8718A only)	1	LM340AKC15	27014	
U2	Voltage Regulator	1	LAS18A15	80103	
U3	Voltage Regulator	1	LAS1405	80103	
U4	Voltage Regulator	1	7812UC	07263	
W1	Cable Assembly, Power Line Cord	1	17250	16428	
W2	Cable Assembly	1	34701-1	14632	
W3	Cable Assembly	1	34701-2	14632	
W4	Cable Assembly	1	34701-3	14632	
W5	Cable Assembly	1	34701-4	14632	
W6	Cable Assembly	1	34701-5	14632	
W7	Cable Assembly	1	34701-6	14632	
W8	Not Used (WJ-8718 and WJ-8718-9 only)				
W8	Cable Assembly (WJ-8718A only)	1	370732	14632	
W9	Cable Assembly	1	34700-1	14632	
W10	Cable Assembly	1	34700-2	14632	
W11	Cable Assembly	1	34702-1	14632	
W12	Cable Assembly	1	34700-3	14632	
W13	Cable Assembly	1	34700-4	14632	
W14	Cable Assembly	1	34700-5	14632	
W15	Cable Assembly	1	34702-2	14632	
W16	Cable Assembly	1	34701-7	14632	
W17	Cable Assembly	1	380005-1	14632	
W18	Cable Assembly	1	380005-2	14632	
W19	Cable Assembly	1	380005-3	14632	
W20	Cable Assembly	1	380005-4	14632	
XBT1	Socket, Battery (WJ-8718A only)	1	794298	14632	
XF2	Fuseholder	1	342004	75915	

MAIN CHASSIS

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
XU1	Socket Assembly	1	34506-1	14632	
XU2	Socket Assembly	1	34506-2	14632	
XU3	Socket Assembly	1	34506-3	14632	

5.6.1 TYPE 76240 POWER DISTRIBUTION

REF DESIG PREFIX A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Electrolytic, Aluminum: 2200 μ F, -10 + 75%, 25 V	2	39D228G025HP4	56289	
C2	Same as C1				
C3	Capacitor, Electrolytic, Aluminum: 8000 μ F, -10 + 75%, 15 V	2	39D808G015JT4	56289	
C4	Same as C3				
CR1	Diode	3	1N4998	80131	04713
CR2 Thru CR4	Same as CR1				
J1	Connector, Receptacle: Faston Tab	20	62073-1	00779	
J2 Thru J14	Same as J1				
J15 Thru J18	Not Used				
J19 Thru J21	Same as C1				
J22 Thru J30	Not Used				
J31	Same as J1				
J32	Same as J1				
J33	Not Used				
J34	Not Used				
J35	Same as J1				

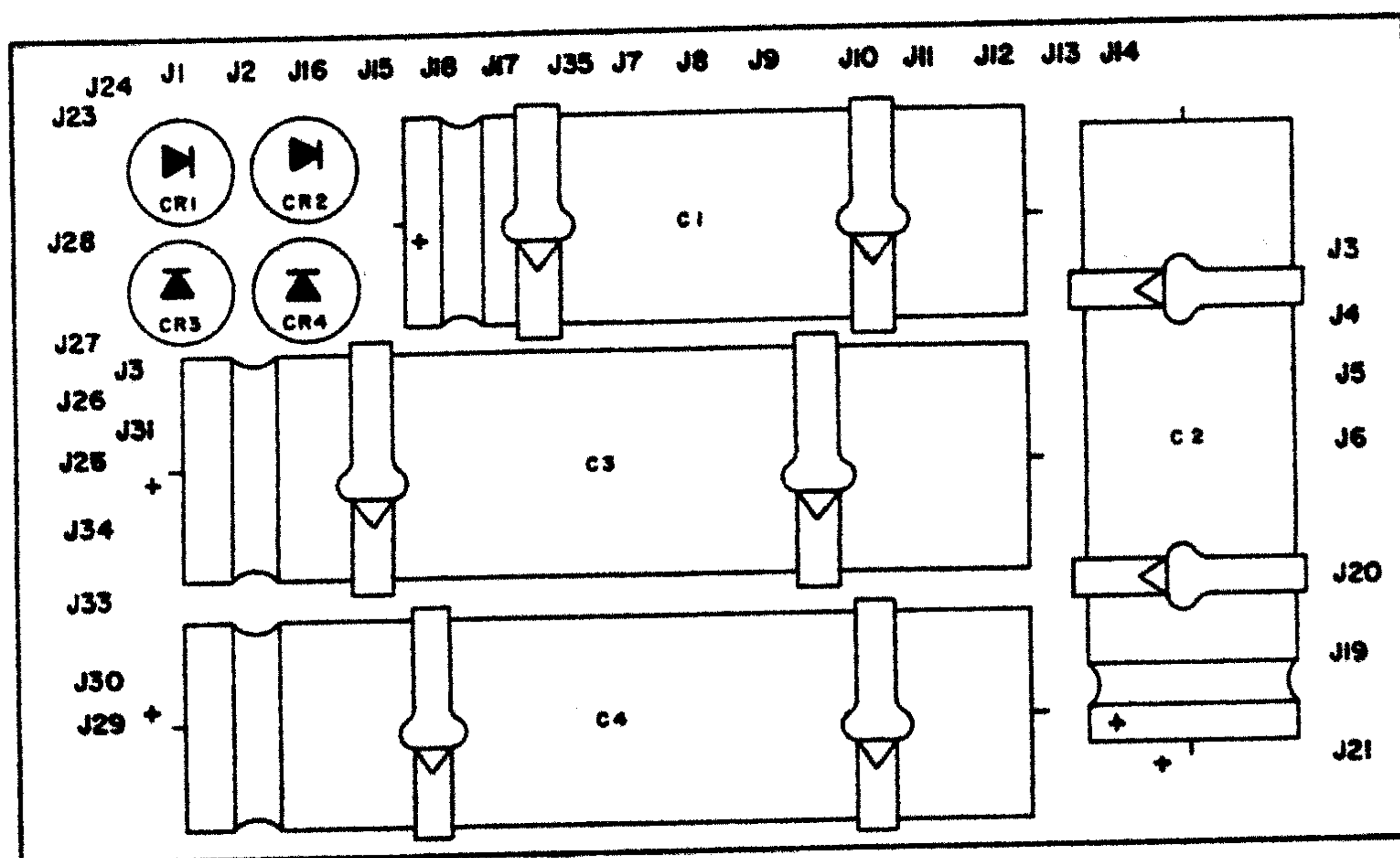


Figure 5-9. Type 76240 Power Distribution (A1),
Location of Components

5.6.2 TYPE 791616-1 RF FILTER

REF DESIG PREFIX A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	30 MHz Low Pass Filter	1	280093	14632	74868
J1	Connector, Receptacle: BNC Series	1	UG1094/U	80058	
L1	Coil, Toroidal	1	20681-208	14632	
MP1	Cover Assembly (Not Shown)	1	280091-1	14632	
R1	Resistor, Fixed, Composition: 8.2Ω, 5%, 1/8W	1	CF1/8-8.2 OHMS/J	09021	
R2	Resistor, Fixed, Composition: 560Ω, 5%, 1/8 W	2	CF1/8-560 OHMS/J	09021	
R3	Same as R2				

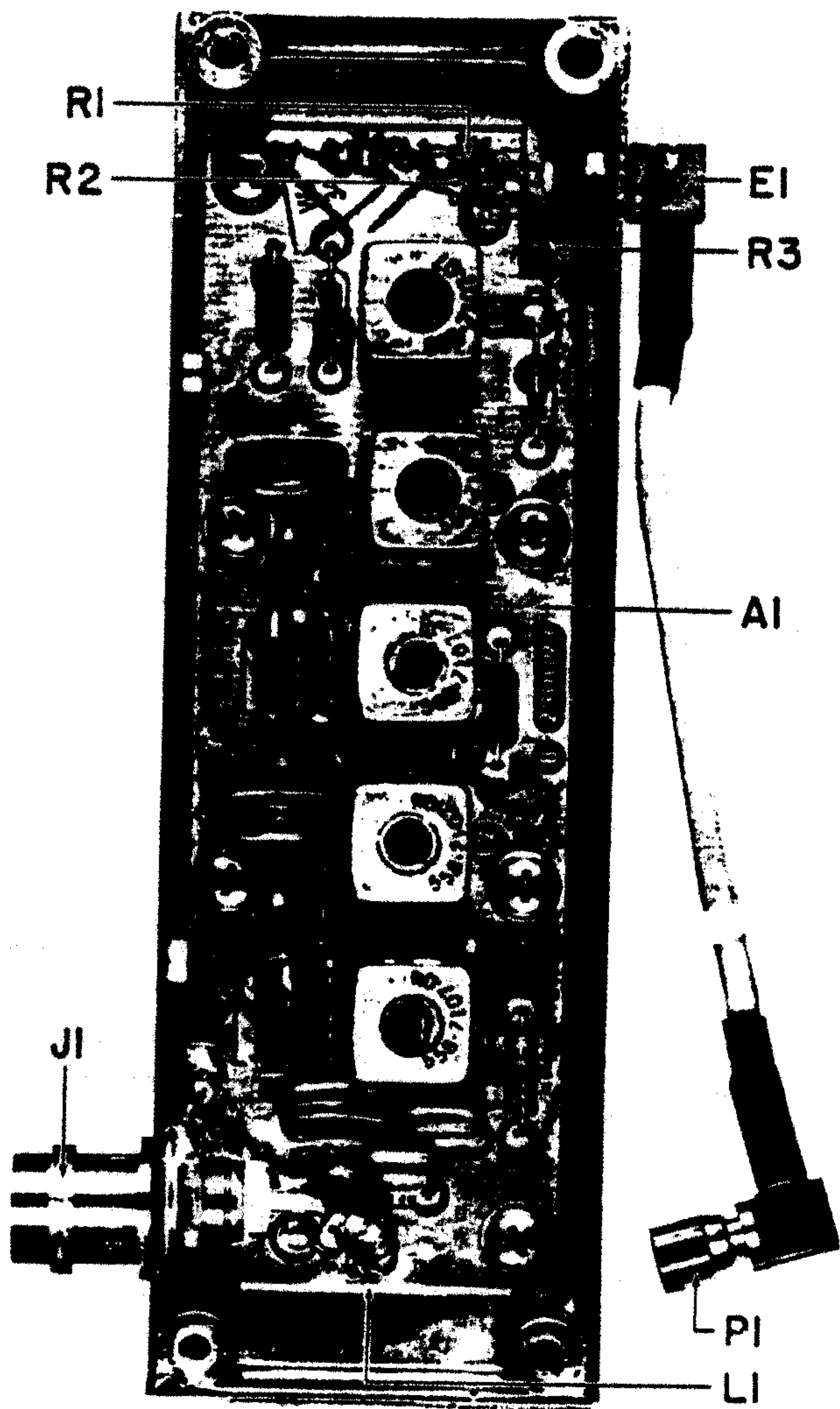
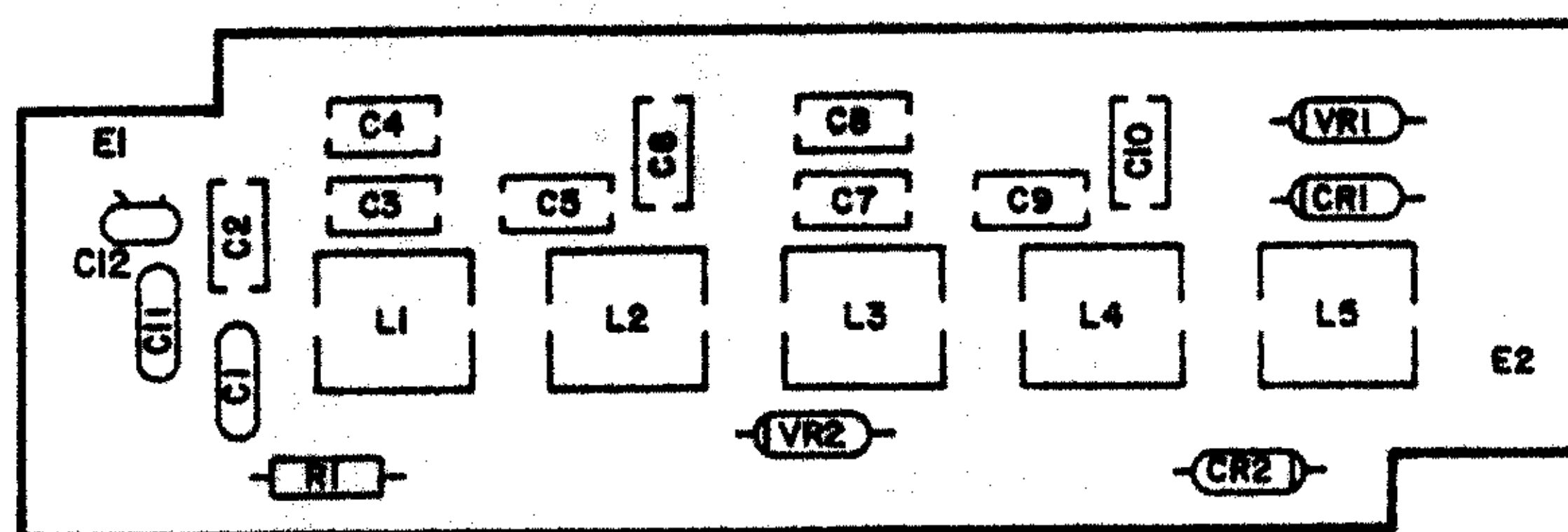


Figure 5-10. Type 791616-1 Input Filter (A2),
Location of Components

5.6.2.1 Part 280093 30 MHz Low Pass Filter

REF DESIG PREFIX A2A1

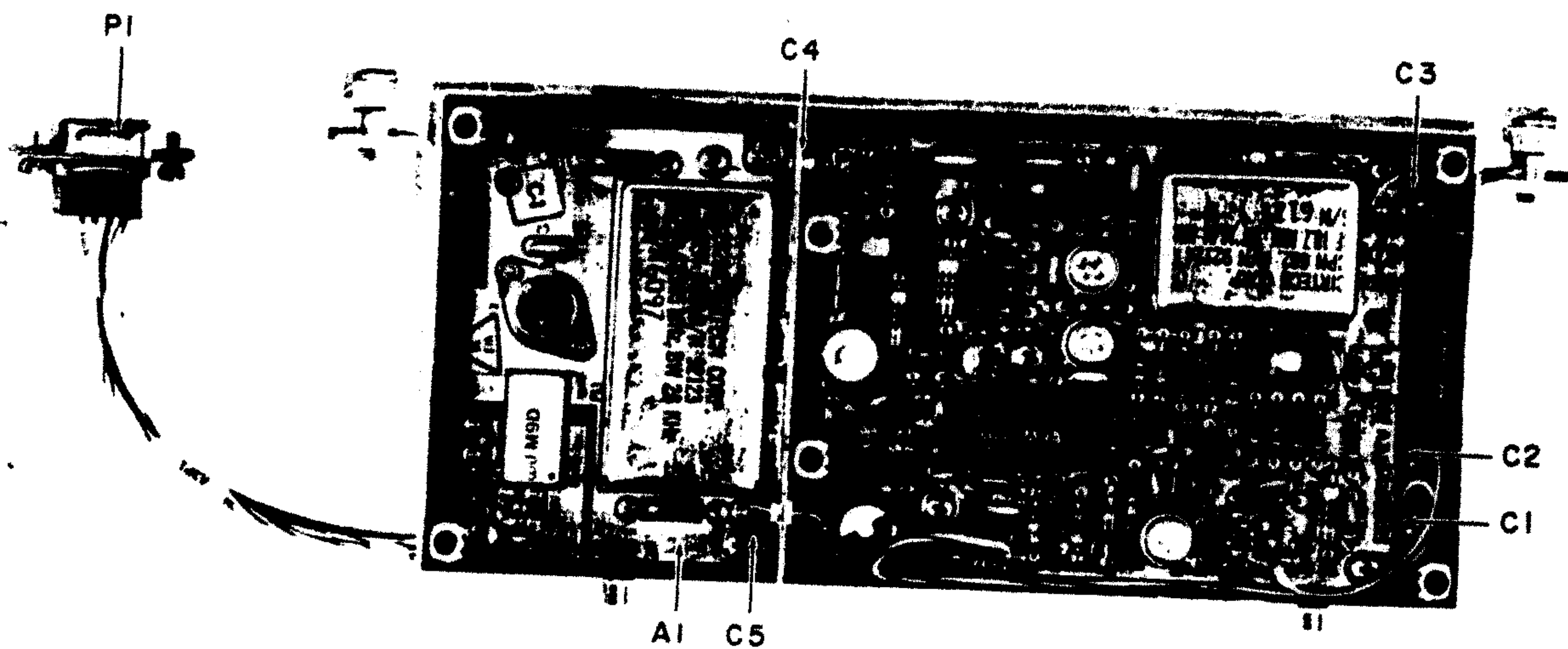
REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	2	34452-1	14632	
C2	Capacitor, Mica, Dipped: 120 pF, 2%, 500 V	1	CM05FD121G03	81349	72136
C3	Capacitor, Mica, Dipped: 10 pF, ± 0.5 pF, 500 V	1	CM05CD100D03	81349	72136
C4	Capacitor, Mica, Dipped: 180 pF, 2%, 500 V	1	CM05FD181G03	81349	72136
C5	Capacitor, Mica, Dipped: 33 pF, 2%, 500 V	1	CM05ED330G03	81349	72136
C6	Capacitor, Mica, Dipped: 150 pF, 2%, 500 V	3	CM05FD151G03	81349	72136
C7	Capacitor, Mica, Dipped: 39 pF, 2%, 500 V	1	CM05ED390G03	81349	72136
C8	Same as C6				
C9	Capacitor, Mica, Dipped: 18 pF, 5%, 500 V	1	CM05CD180J03	81349	72136
C10	Same as C6				
C11	Same as C1				
C12	Capacitor, Ceramic, Disc: 47 pF, 5%, 100 V	1	8111-100-C0G0-470J	72982	
CR1	Diode	2	1N4449	80131	93332
CR2	Same as CR1				
L1	Coil, Variable: 0.351-0.429 μ H	4	558-7107-08	71279	
L2 Thru L4	Same as L1				
L5	Coil, Variable: 0.297-0.363 μ H	1	558-7107-07	71279	
R1	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	1	CF1/4-10K/J	09021	
VR1	Diode, Zener: 6.2 V	2	1N753A	80131	04713

Figure 5-11. Part 280093 30 MHz Low Pass Filter (A2A1),
Location of Components

5.6.3 TYPE 791592-1 INPUT CONVERTER

REF DESIG PREFIX A3

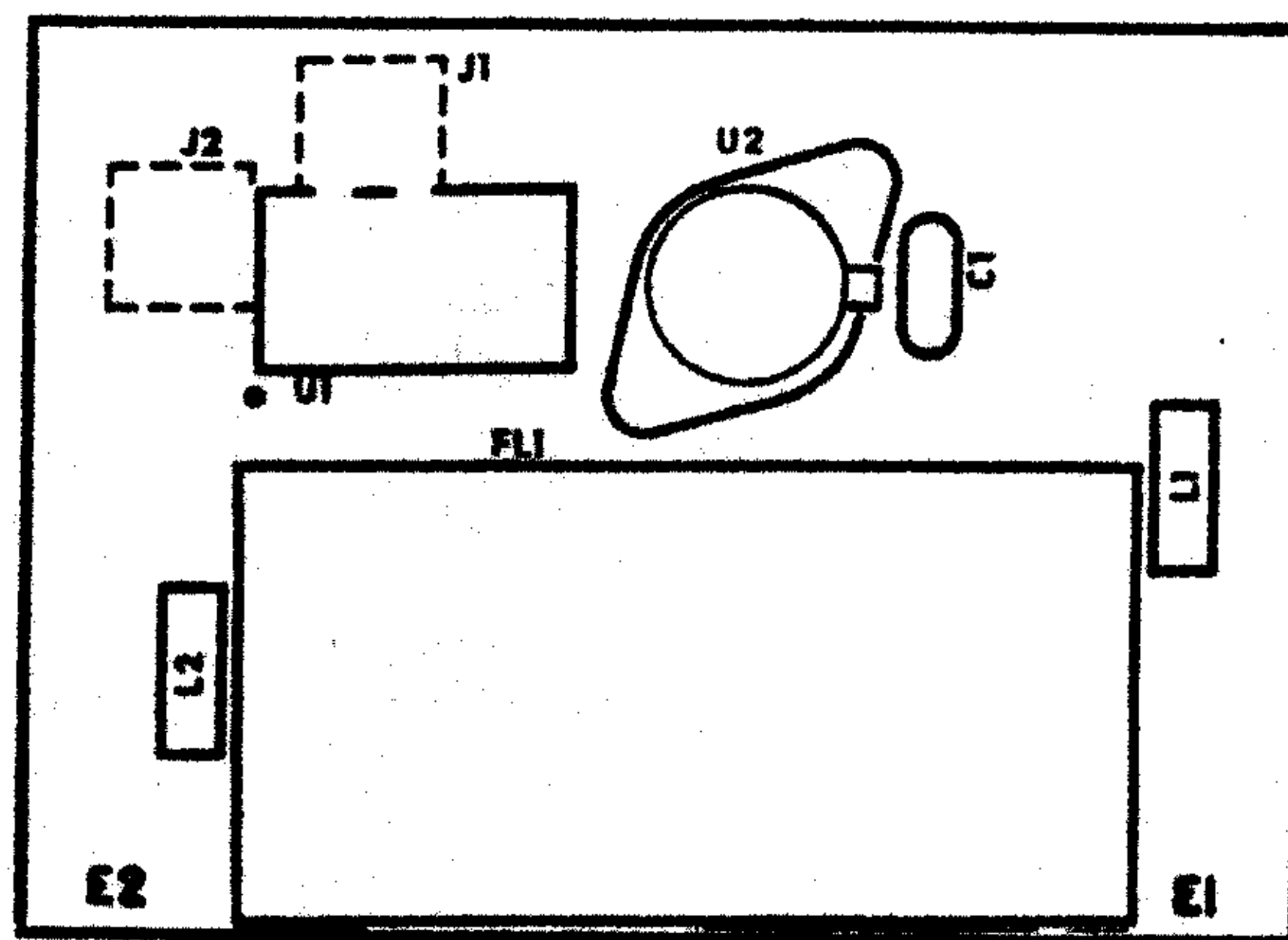
REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	1st Mixer, 1st IF	1	370611-1	14632	
A2	2nd Mixer, 2nd IF	1	370646-1	14632	
C1	Capacitor, Ceramic, Feedthru: 1000 pF, GMV, 500 V Same as C1	4	54-794-009-102W	33095	
C2					
Thru					
C4					
C5	Capacitor, Ceramic, Disc: 68 pF, 5%, 100 V	1	8121-100-C0G0-680J	72982	
P1	Connector, Plug	1	205204-1	00779	

Figure 5-12. Type 791592-1 Input Converter (A3),
Location of Components

5.6.3.1 Part 370611-1 1st Mixer, 1st IF

REF DESIG PREFIX A3A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	1	34453-1	14632	
FL1	Filter, Bandpass: 43 MHz	1	92123	14632	
J1	Connector, Receptacle: SMC Series	2	34520-1	14632	
J2	Same as J1				
L1	Coil, Fixed: 10 μ H	1	1537-36	99800	
L2	Coil, Fixed: 0.15 μ H	1	1537-00	99800	
U1	Mixer, Balanced	1	M9D	27956	
U2	Amplifier: 5-500 MHz	1	A58	27956	

Figure 5-13. Part 370611-1 1st Mixer, 1st IF (A3A1),
Location of Components

5.6.3.2 Part 370646-1 2nd Mixer, 2nd IF

REF DESIG PREFIX A3A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Variable, Ceramic: 2.5-11 pF, 350 V	1	538-011B2.5-11	72982	
C2	Capacitor, Ceramic, Disc: 1000 pF, GMV, 500 V	2	B-GP1000PFP	91418	
C3	Same as C2				
C4	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	5	34453-1	14632	
C5 Thru C8	Same as C4				
C9	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C10	Capacitor, Ceramic, Disc: 470 pF, 20%, 1000 V	5	BHD470-20PCT	91418	
C11 Thru C13	Same as C10				
C14	Capacitor, Mica, Dipped: 47 pF, 2%, 500 V	1	CM05ED470G03	81349	72136
C15	Same as C10				
C16	Capacitor, Ceramic, Disc: 4.7 pF, ± 0.25 pF, 100 V	1	8101-100-C0H0-479C	72982	
C17	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	1	34452-1	14632	
C18	Capacitor, Electrolytic, Tantalum: 4.7 μ F, 20%, 35 V	1	196D475X0035JE3	56289	
C19	Capacitor, Variable, Ceramic: 9-35 pF, 350 V	1	538-011D9-35	72982	
CR1	Diode	1	1N4446	80131	93332
CR2	Diode	1	5082-3039	28480	
FB1	Ferrite Bead	3	56-590-65-4A	02114	
FB2	Same as FB1				
FB3	Same as FB1				
FL1	Filter, Bandpass: 10.7 MHz	1	92124	14632	
J1	Connector, Receptacle: SMC Series	2	34520-1	14632	
J2	Same as J1				
L1	Coil, Fixed: 10 μ H	4	1537-36	99800	
L2	Same as L1				
L3	Same as L1				
L4	Coil, Fixed: 0.56 μ H	1	202-11	99848	
L5	Same as L1				
L6	Coil, Fixed: 0.15 μ H	1	1537-00	99800	
L7	Coil, Fixed: 0.33 μ H	1	1537-04	99800	
L8	Coil, Fixed: 1.8 μ H	1	1537-18	99800	
MP1	Transipad	2	7717-89DAP	13103	
MP2	Transipad	2	7717-22DAP	13103	
MP3	Transipad	1	7717-46DAP	13103	
Q1	Transistor	1	2N2222A	80131	04713
Q2	Transistor	1	CP643	12498	
Q3	Transistor	3	2N5109	80131	02735
Q4	Same as Q3				
Q5	Transistor	1	2N2857/JAN	81350	

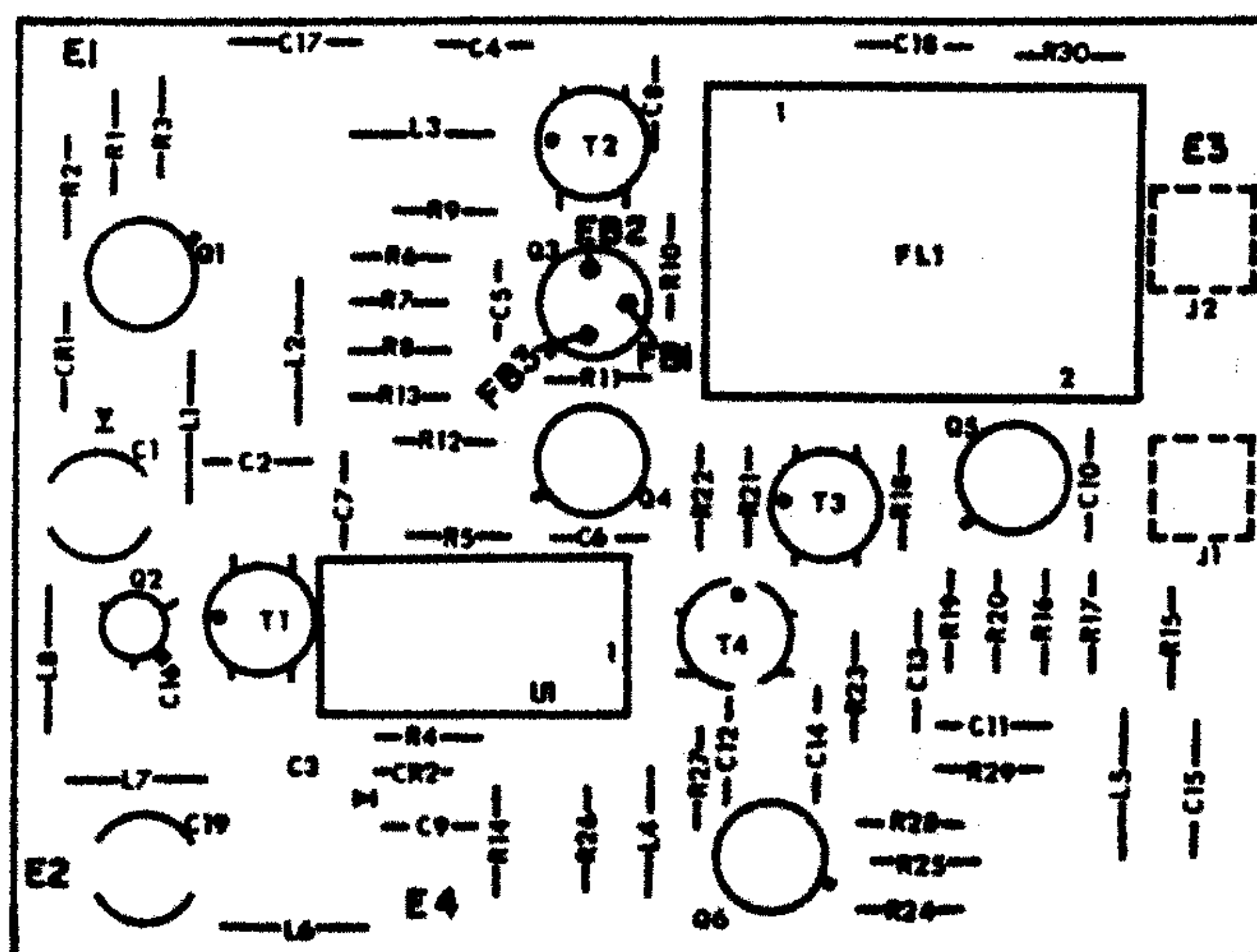


Figure 5-14. Part 370646-1 2nd Mixer, 2nd IF (A3A2),
Location of Components

REF DESIG PREFIX A3A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
Q6	Same as Q3				
R1	Resistor, Fixed, Composition: 2.2 k Ω , 5%, 1/4 W	2	CF1/4-2.2K/J	09021	
R2	Resistor, Fixed, Composition: 82 Ω , 5%, 1/4 W	1	CF1/4-82 OHMS/J	09021	
R3	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	5	CF1/4-10 OHMS/J	09021	
R4	Resistor, Fixed, Composition: 1.8 k Ω , 5%, 1/4 W	1	CF1/4-1.8K/J	09021	
R5	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	2	CF1/4-220 OHMS/J	09021	
R6	Resistor, Fixed, Composition: 3.3 k Ω , 5%, 1/4 W	1	CF1/4-3.3K/J	09021	
R7	Same as R1				
R8	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	3	CF1/4-1.0K/J	09021	
R9	Resistor, Fixed, Composition: 200 Ω , 5%, 1/4 W	1	CF1/4-200 OHMS/J	09021	
R10	Same as R3				
R11	Resistor, Fixed, Composition: 47 Ω , 5%, 1/4 W	1	CF1/4-47 OHMS/J	09021	
R12	Resistor, Fixed, Composition: 4.7 Ω , 5%, 1/4 W	1	CF1/4-4.7 OHMS/J	09021	
R13	Resistor, Fixed, Composition: 68 Ω , 5%, 1/4 W	2	CF1/4-68 OHMS/J	09021	
R14	Resistor, Fixed, Composition: 390 Ω , 5%, 1/4 W	1	CF1/4-390 OHMS/J	09021	
R15	Same as R13				
R16	Resistor, Fixed, Composition: 2.7 k Ω , 5%, 1/4 W	1	CF1/4-2.7K/J	09021	
R17	Same as R8				
R18	Same as R3				
R19	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	1	CF1/4-22 OHMS/J	09021	
R20	Same as R5				
R21	Resistor, Fixed, Composition: 560 Ω , 5%, 1/4 W	1	CF1/4-560 OHMS/J	09021	
R22	Resistor, Fixed, Composition: 150 Ω , 5%, 1/4 W	2	CF1/4-150 OHMS/J	09021	
R23	Resistor, Fixed, Composition: 15 Ω , 5%, 1/4 W	1	CF1/4-15 OHMS/J	09021	
R24	Same as R8				
R25	Resistor, Fixed, Composition: 470 Ω , 5%, 1/4 W	1	CF1/4-470 OHMS/J	09021	
R26	Resistor, Fixed, Composition: 330 Ω , 5%, 1/4 W	1	CF1/4-330 OHMS/J	09021	
R27	Same as R3				
R28	Resistor, Fixed, Composition: 12 Ω , 5%, 1/4 W	1	CF1/4-12 OHMS/J	09021	
R29	Same as R22				
R30	Same as R3				
RA1	Heatsink	1	1118C	13103	
T1	Transformer Assembly	1	22295-53	14632	
T2	Transformer Assembly	1	22295-54	14632	
T3	Transformer Assembly	1	22295-56	14632	
T4	Transformer Assembly	1	22295-55	14632	
U1	Mixer, Balanced: 0.05-200 MHz	1	M9A	27956	

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

5.6.4 TYPE 791569-1 IF MOTHERBOARD

REF DESIG PREFIX A4

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	10.7 MHz Filter Switch	1	791594	14632	
A2	10.7 MHz/455 kHz Converter	1	71430	14632	
A3	455 kHz Filter Switch	1	791595	14632	
A4*	USB/LSB Filter Switch (Not Optional on WJ-8718A)	1	791596	14632	
A5*	ISB/LSB Filter Switch (Not Optional on WJ-8718A)	1	791597	14632	
A6	AGC Amplifier	1	78112	14632	
A7	455 kHz Amplifier/AM Detector	1	72488	14632	
A8*	ISB Detector/Audio (Optional on WJ-8718-9 only)	1	791598	14632	
A9	FM, CW and SSB Detector	1	791599	14632	
A10	Audio Amplifier	1	746001	14632	
C1	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	29	34453-1	14632	
C2 Thru C29	Same as C1				
J1	Feedthru, Post	2	PE914031-2	00779	
L1	Ferrite Choke	2	VK200-10-38	02114	
L2	Same as L1				
--	Cable Assembly	1	34832	14632	
P1	Plug Assembly	1	88523-1	00779	
XA1	Connector, P.C. Board	11	MK30C-14-195-4381	81312	
XA2 Thru XA11	Same as XA1				
*	Part of ISB Option				

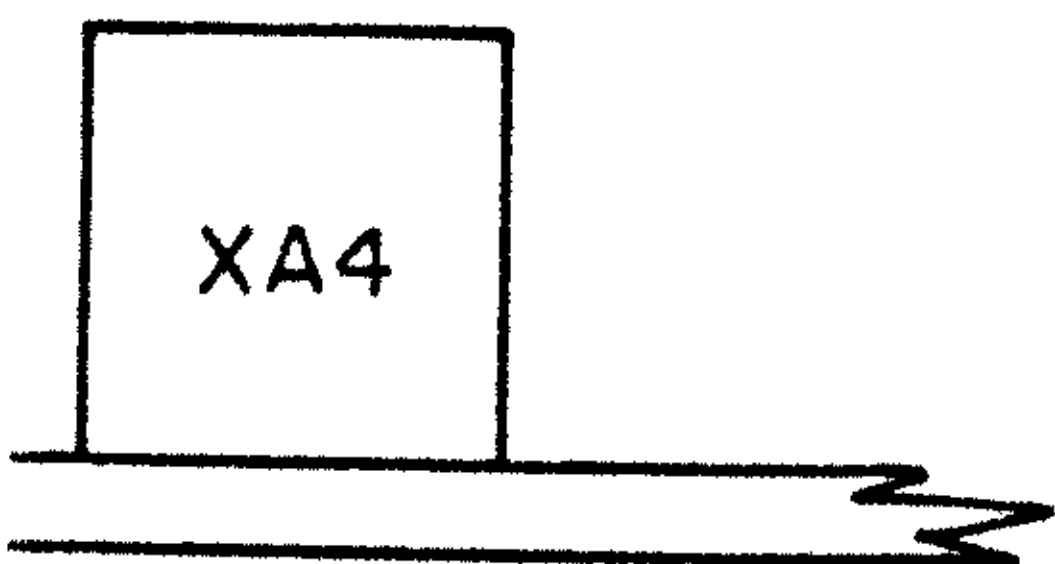
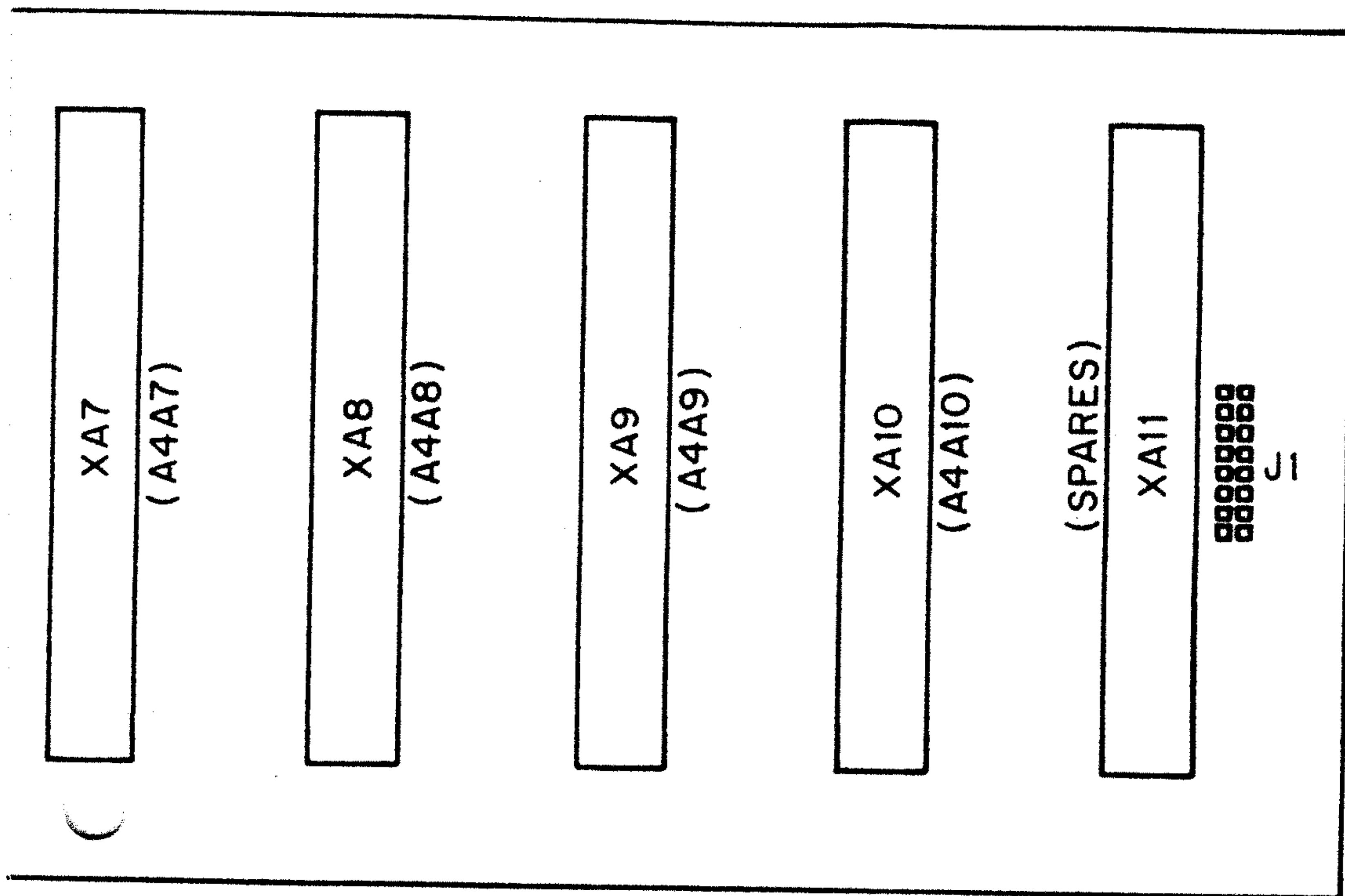
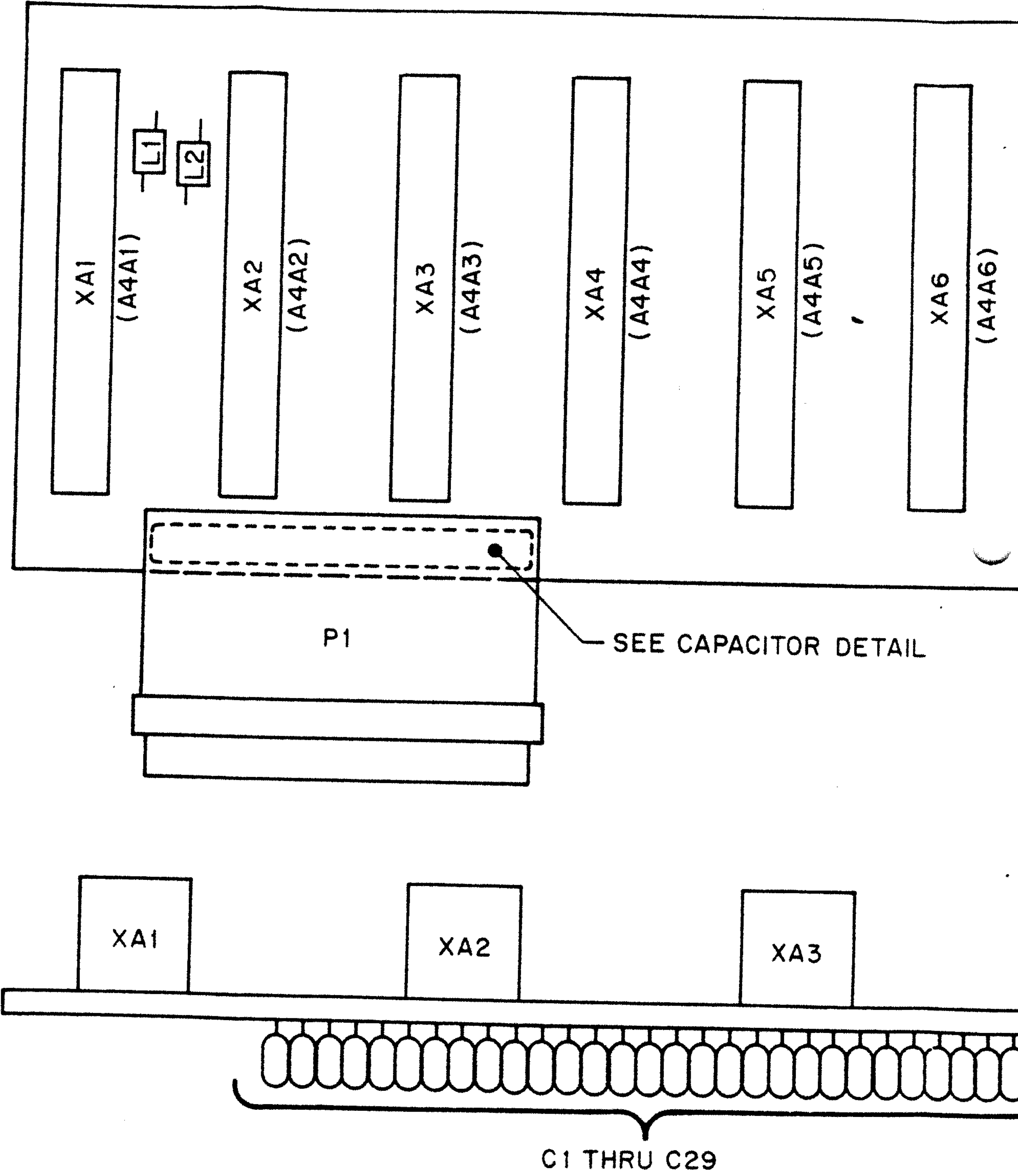


Figure 5-15. Type 791569-1 IF Motherboard (A4),
Location of Components

FIGURE 5-15



5.6.4.1 Type 791594-1 10.7 MHz Filter Switch

REF DESIG PREFIX A4A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Mica, Dipped: 91 pF, 2%, 500 V	1	CM05FD910G03	81349	72136
C2	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	18	34453-1	14632	
C3 Thru C8	Same as C2				
C9	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	9	34475-1	14632	
C10	Same as C2				
C11	Same as C9				
C12	Same as C2				
C13	Same as C9				
C14	Same as C2				
C15	Same as C9				
C16	Same as C9				
C17	Same as C9				
C18 Thru C23	Same as C2				
C24 Thru C26	Same as C9				
C27	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	2	CS13BE156K	81349	56289
C28	Same as C2				
C29	Same as C2				
C30	Capacitor, Mica, Dipped: 130 pF, 2%, 500 V	1	CM05FD131G03	81349	72136
C31	Same as C27				
C32	Capacitor, Variable, Ceramic: 9-35 pF, 350 V	1	538-011D9-35	72982	
FL1	Filter, Bandpass	1	92126	14632	
FL2	Filter, Bandpass	1	92125	14632	
L1	Coil, Fixed, Molded: 1.5 μ H	1	1537-16	99800	
L2 Thru L4	Not Used				
L5	Coil, Fixed, Molded: 1.8 μ H	1	1537-18	99800	
Q1	Transistor	6	2N3904	80131	04713
Q2 Thru Q6	Same as Q1				
R1	Resistor, Fixed, Composition: 13 k Ω , 5%, 1/4 W	3	CF1/4-13K/J	09021	
R2	Resistor, Fixed, Composition: 3.0 k Ω , 5%, 1/4 W	3	CF1/4-3.0K/J	09021	
R3	Same as R1				
R4	Same as R2				
R5	Same as R1				
R6	Same as R2				
R7	Resistor, Fixed, Composition: 680 Ω , 5%, 1/4 W	3	CF1/4-680 OHMS/J	09021	

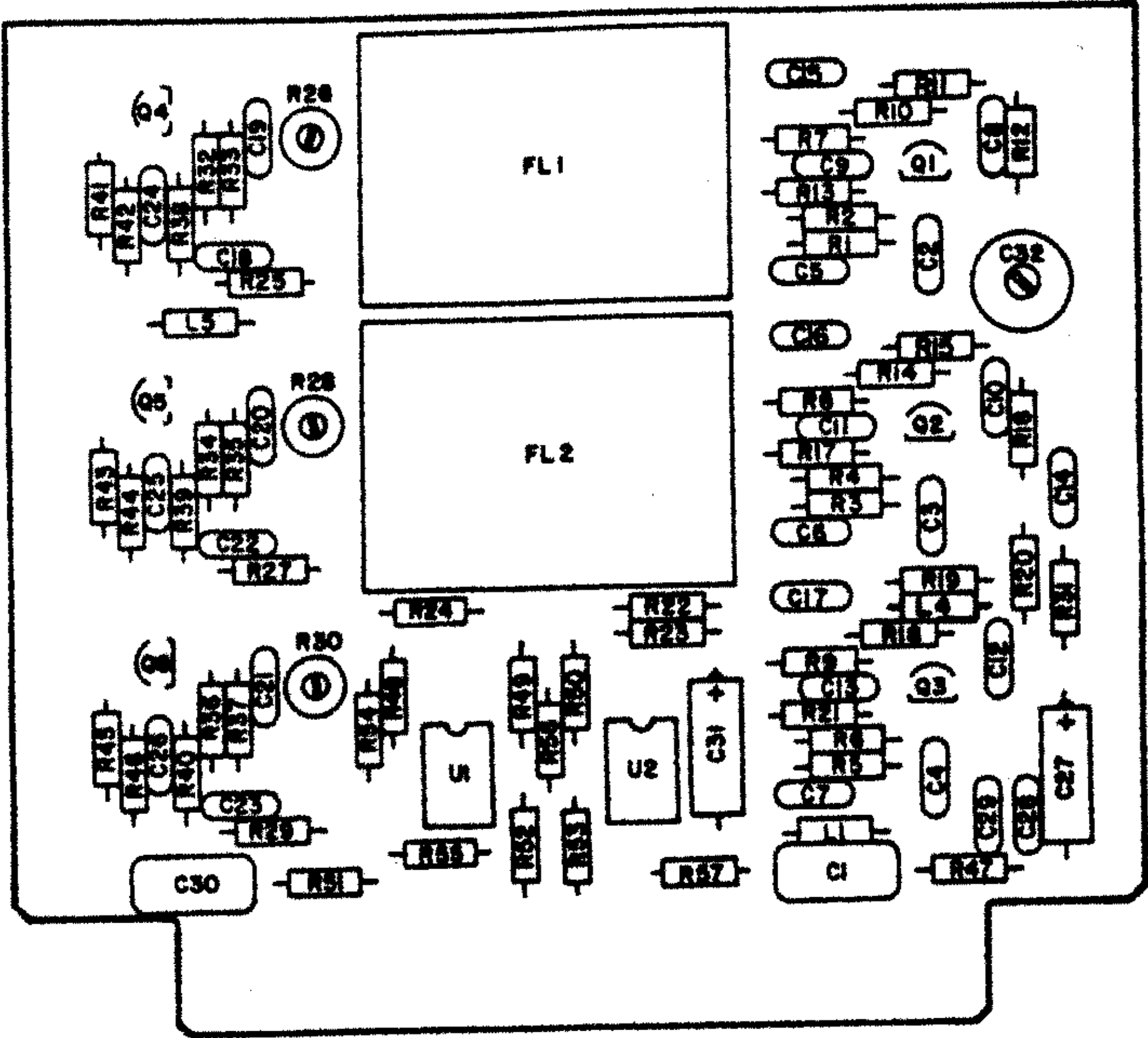


Figure 5-16. Type 791594-1 10.7 MHz Filter Switch (A4A1),
Location of Components

REF DESIG PREFIX A4A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R8	Same as R7				
R9	Same as R7				
R10	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	6	CF1/4-10 OHMS/J	09021	
R11	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	3	CF1/4-220 OHMS/J	09021	
R12	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	5	CF1/4-22 OHMS/J	09021	
R13	Resistor, Fixed, Composition: 33 Ω , 5%, 1/4 W	5	CF1/4-33 OHMS/J	09021	
R14	Same as R10				
R15	Same as R11				
R16	Same as R12				
R17	Same as R13				
R18	Same as R10				
R19	Same as R11				
R20	Same as R12				
R21	Same as R13				
R22	Same as R13				
R23	Resistor, Fixed, Composition: 560 Ω , 5%, 1/4 W	4	CF1/4-560 OHMS/J	09021	
R24	Same as R13				
R25	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	7	CF1/4-100 OHMS/J	09021	
R26	Resistor, Variable, Film: 200 Ω , 10%, 1/2 W	3	62PR200	73138	
R27	Same as R25				
R28	Same as R26				
R29	Same as R25				
R30	Same as R26				
R31	Same as R12				
R32	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	3	CF1/4-22K/J	09021	
R33	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	3	CF1/4-4.7K/J	09021	
R34	Same as R32				
R35	Same as R33				
R36	Same as R32				
R37	Same as R33				
R38	Same as R23				
R39	Same as R23				
R40	Same as R23				
R41	Same as R10				
R42	Resistor, Fixed, Composition: 12 Ω , 5%, 1/4 W	3	CF1/4-12 OHMS/J	09021	
R43	Same as R10				
R44	Same as R42				
R45	Same as R10				
R46	Same as R42				
R47	Same as R12				

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

REF DESIG PREFIX A4A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R48	Same as R25				
R49	Same as R25				
R50	Same as R25				
R51	Resistor, Fixed, Composition: 56 Ω , 5%, 1/4 W	1	CF1/4-56 OHMS/J	09021	
R52	Resistor, Fixed, Composition: 33 k Ω , 5%, 1/4 W	1	CF1/4-33K/J	09021	
R53	Resistor, Fixed, Composition: 6.2 k Ω , 5%, 1/4 W	1	CF1/4-6.2K/J	09021	
R54	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	3	CF1/4-10K/J	09021	
R55	Same as R54				
R56	Same as R54				
R57	Same as R25				
U1	Integrated Circuit	2	MC1458N	18324	
U2	Same as U1				

5.6.4.2 Type 71430-1 10.7 MHz/455 kHz Converter

REF DESIG PREFIX A4A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	6	34453-1	14632	
C2 Thru C6	Same as C1				
C7	Capacitor, Mica, Dipped: 68 pF, 2%, 500 V	1	CM05ED680G03	81349	72136
C8	Capacitor, Mica, Dipped: 360 pF, 2%, 500 V	1	CM05FD361G03	81349	72136
C9	Capacitor, Mica, Dipped: 3900 pF, 2%, 500 V	2	CM06FD392G03	81349	72136
C10	Same as C9				
C11	Capacitor, Mica, Dipped: 1600 pF, 2%, 500 V	1	CM06FD162G03	81349	72136
L1	Coil, Fixed: 100 μ H	1	1537-76	99800	
L2	Coil, Fixed: 3.3 μ H	1	1537-24	99800	
L3	Coil, Fixed: 12 μ H	1	1537-38	99800	
L4	Coil, Fixed: 82 μ H	1	1537-72	99800	
MP1	Transipad	1	7717-44DAP	13103	
Q1	Transistor	1	2N2708	80131	18714
R1	Resistor, Fixed, Composition: 56 Ω , 5%, 1/4 W	2	CF1/4-56 OHMS/J	09021	
R2	Same as R1				
R3	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	1	CF1/4-1.0K/J	09021	
R4	Resistor, Fixed, Composition: 12 k Ω , 5%, 1/4 W	1	CF1/4-12K/J	09021	
R5	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	1	CF1/4-4.7K/J	09021	
R6	Resistor, Fixed, Composition: 39 Ω , 5%, 1/4 W	1	CF1/4-39 OHMS/J	09021	
R7	Resistor, Fixed, Composition: 560 Ω , 5%, 1/4 W	1	CF1/4-560 OHMS/J	09021	
R8	Resistor, Fixed, Composition: 300 Ω , 5%, 1/4 W	2	CF1/4-300 OHMS/J	09021	
R9	Resistor, Fixed, Composition: 18 Ω , 5%, 1/4 W	1	CF1/4-18 OHMS/J	09021	
R10	Same as R8				
U1	Mixer, Balanced	1	M6A	27956	

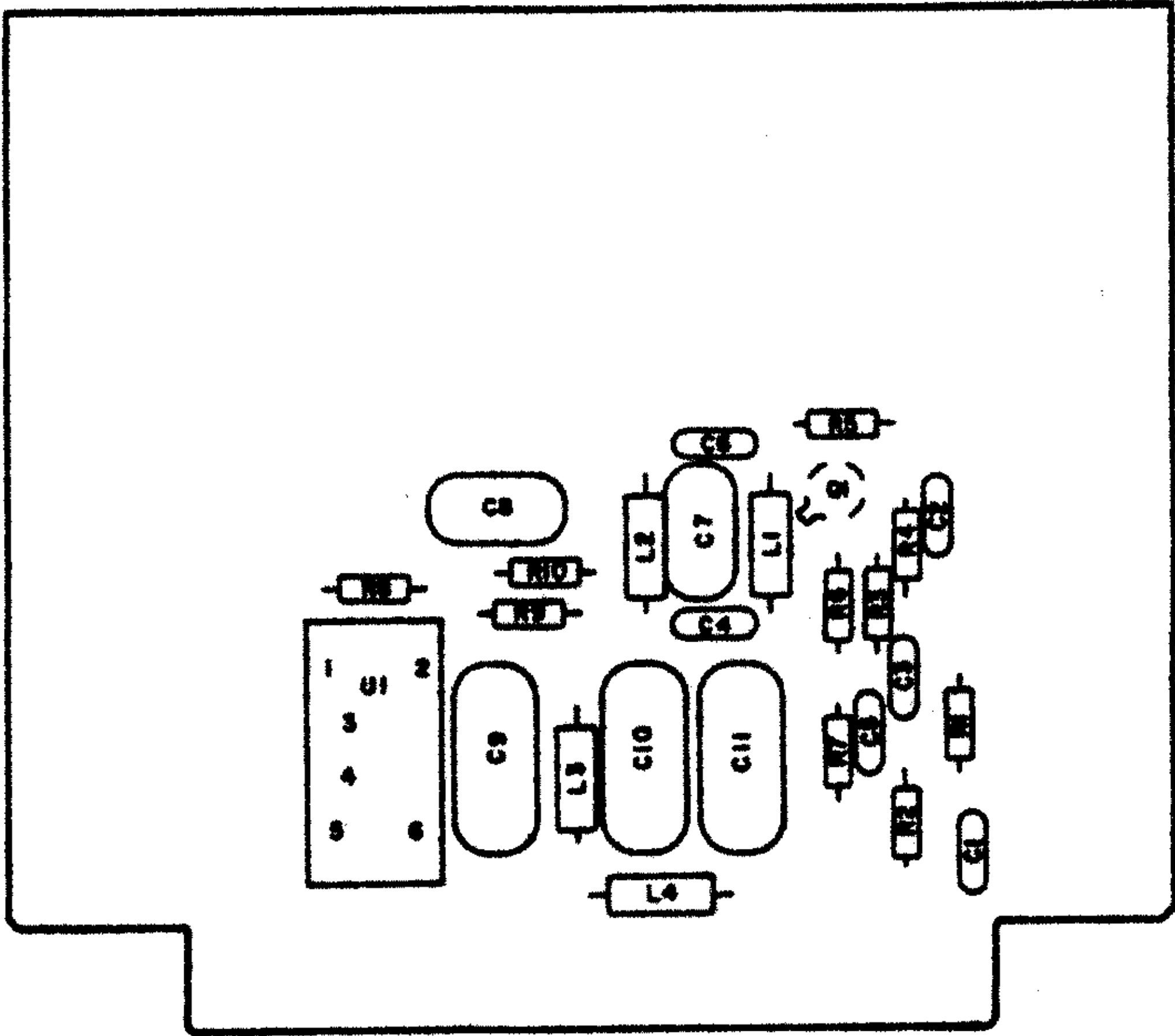


Figure 5-17. Type 71430-1 10.7 MHz/455 kHz Converter (A4A2),
Location of Components

5.6.4.3 Type 791595-1 455 kHz Filter Switch

REF DESIG PREFIX A4A3

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	19	34452-1	14632	
C2 Thru C7	Same as C1				
C8	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	1	CS13BE156K	81349	56289
C9 Thru C20	Same as C1				
FL1	Filter, Bandpass: 325 Hz BW	1	92128	14632	
FL2	Filter, Bandpass: 1 kHz BW	1	92127	14632	
L1	Coil, Fixed: 6.8 mH	3	553-3635-47	71279	
L2	Same as L1				
L3	Same as L1				
MP1	Transipad	6	7717-44DAP	13103	
Q1	Transistor	6	2N2222A	80131	04713
Q2 Thru Q6	Same as Q1				
R1	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	4	CF1/4-22K/J	09021	
R2	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	3	CF1/4-3.9K/J	09021	
R3	Resistor, Fixed, Composition: 270 Ω , 5%, 1/4 W	2	CF1/4-270 OHMS/J	09021	
R4	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	3	CF1/4-1.2K/J	09021	
R5	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	3	CF1/4-22 OHMS/J	09021	
R6	Same as R5				
R7	Resistor, Fixed, Composition: 12 k Ω , 5%, 1/4 W	3	CF1/4-12K/J	09021	
R8	Resistor, Fixed, Composition: 1.5 k Ω , 5%, 1/4 W	3	CF1/4-1.5K/J	09021	
R9	Resistor, Fixed, Composition: 150 Ω , 5%, 1/4 W	3	CF1/4-150 OHMS/J	09021	
R10	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	2	CF1/4-220 OHMS/J	09021	
R11	Same as R5				
R12	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	5	CF1/4-10K/J	09021	
R13	Same as R1				
R14	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	7	CF1/4-100 OHMS/J	09021	
R15	Same as R14				
R16	Same as R12				
R17	Same as R1				
R18	Same as R2				
R19*	Resistor, Fixed, Composition: 240 Ω , 5%, 1/4 W	1	CF1/4-240 OHMS/J	09021	
R20	Same as R4				
R21	Same as R7				
R22	Same as R8				
*	Nominal value, final value factory selected.				

FIGURE 5-18

REF DESIG PREFIX A4A3

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R23	Same as R9				
R24	Same as R14				
R25	Same as R14				
R26	Same as R12				
R27	Same as R12				
R28	Same as R1				
R29	Same as R2				
R30	Same as R4				
R31	Same as R3				
R32	Same as R10				
R33	Same as R7				
R34	Same as R8				
R35	Same as R9				
R36	Same as R14				
R37	Same as R14				
R38	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	1	CF1/4-4.7K/J	09021	
R39	Same as R12				
R40	Same as R14				
U1	Integrated Circuit	1	MC1458N	18324	

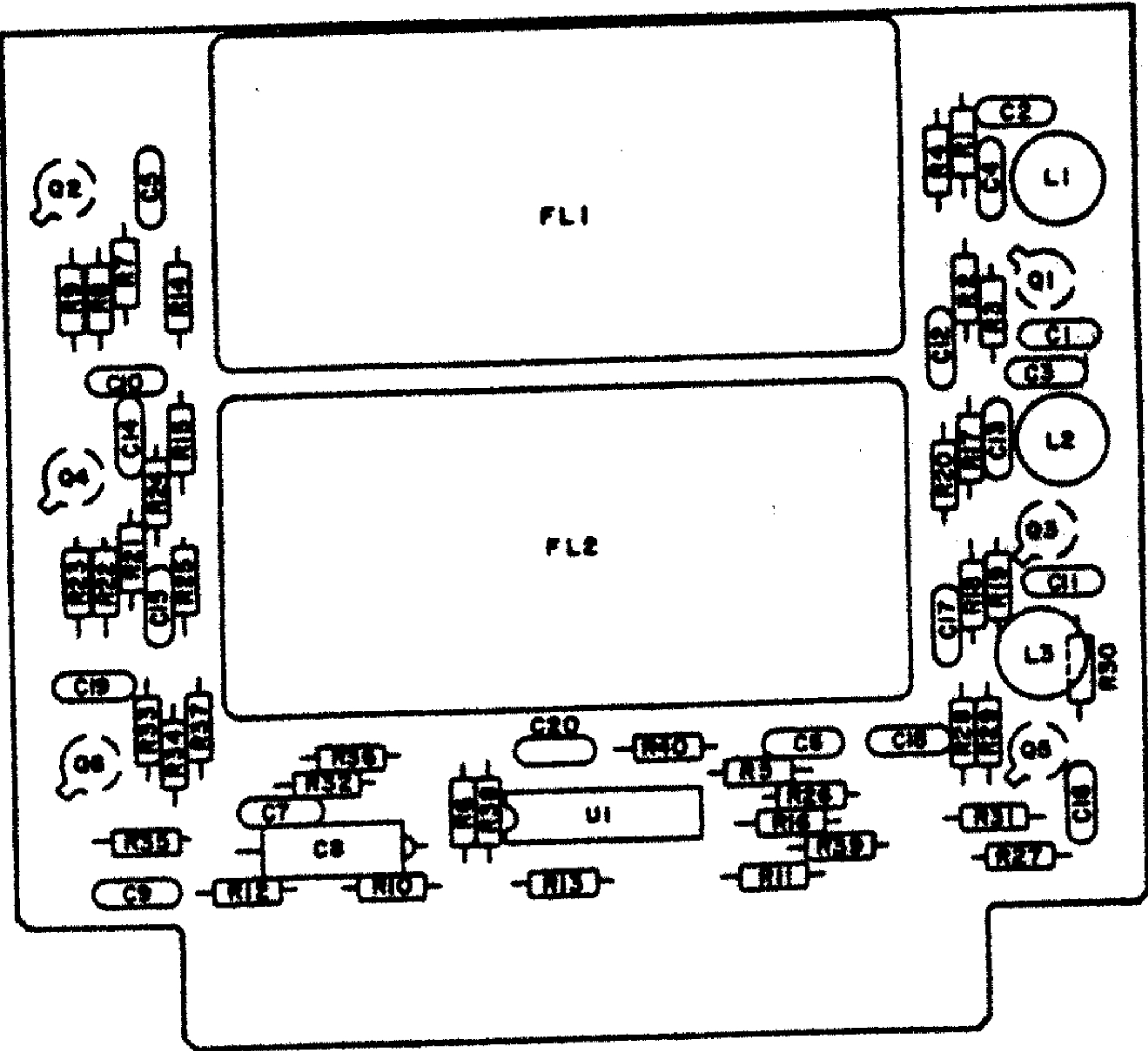


Figure 5-18. Type 791595-1 455 kHz Filter Switch (A4A3),
Location of Components

WJ-8718 SERIES HF RECEIVER

REPLACEMENT PARTS L

5.6.4.4 Type 791596-1 USB Filter Switch
(Not Optional on WJ-8718A)

REF DESIG PREFIX A4A4

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	REC'D VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	11	34452-1	14632	
C2 Thru C4	Same as C1				
C5	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	1	CS13BE156K	81349	5628
C6	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C7 Thru C13	Same as C1				
CR1	Diode	2	1N4449	80131	93332
CR2	Same as CR1				
FL1	Filter, Bandpass	1	92122	14632	
L1	Coil, Fixed, Molded: 100 μ H	1	2500-28	99800	
L2	Coil, Fixed: 6.8 mH	1	553-3635-47	71279	
MP1	Transipad	2	7717-44DAP	13103	
Q1	Transistor	2	2N2222A	80131	04713
R1	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	4	CF1/4-10K/J	09021	
R2	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	2	CF1/4-4.7K/J	09021	
R3	Resistor, Fixed, Composition: 270 Ω , 5%, 1/4 W	1	CF1/4-270 OHMS/J	09021	
R4	Resistor, Fixed, Composition: 10 Ω , 50%, 1/4 W	2	CF1/4-10 OHMS/J	09021	
R5	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	3	CF1/4-22 OHMS/J	09021	
R6	Same as R5				
R7	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	2	CF1/4-1.2K/J	09021	
R8	Same as R7				
R9	Same as R4				
R10	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	5	CF1/4-100 OHMS/J	09021	
R11	Same as R5				
R12	Same as R1				
R13	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	2	CF1/4-22K/J	09021	
R14	Same as R10				
R15	Same as R1				
R16	Same as R1				
R17	Same as R2				
R18	Resistor, Fixed, Composition: 39 k Ω , 5%, 1/4 W	1	CF1/4-39K/J	09021	
R19	Same as R10				
R20	Same as R10				
R21	Same as R13				
R22	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	1	CF1/4-3.9K/J	09021	
R23	Resistor, Variable, Film: 500 Ω , 10%, 1/2 W	1	62PR500	73138	
R24	Same as R10				
U1	Integrated Circuit	1	MC1458N	18324	

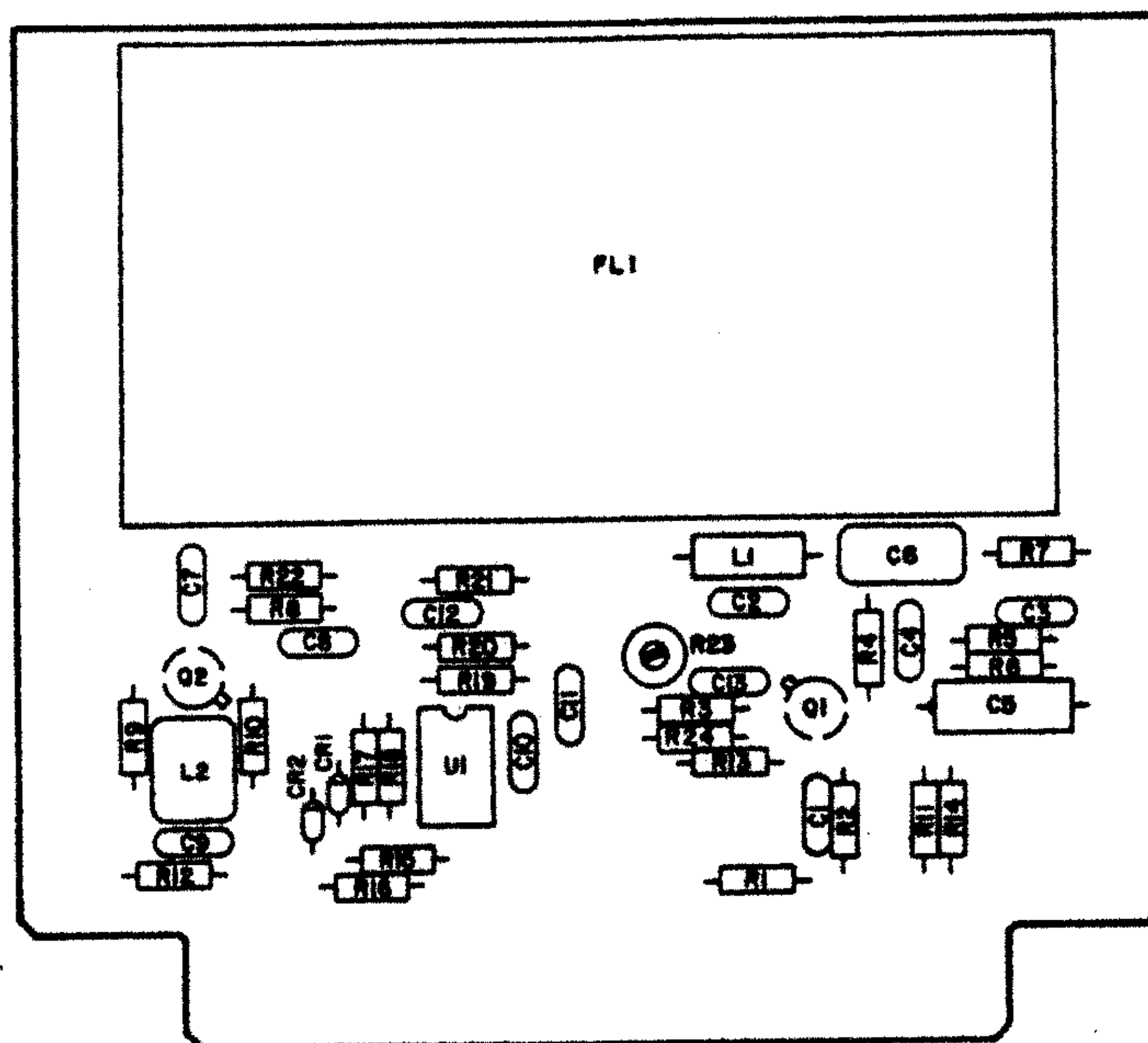


Figure 5-19. Type 791596-1 USB Filter Switch (A4A4),
Location of Components

5.6.4.5 Type 791597-1 ISB/LSB Filter Switch
(Not Optional on WJ-8718A)

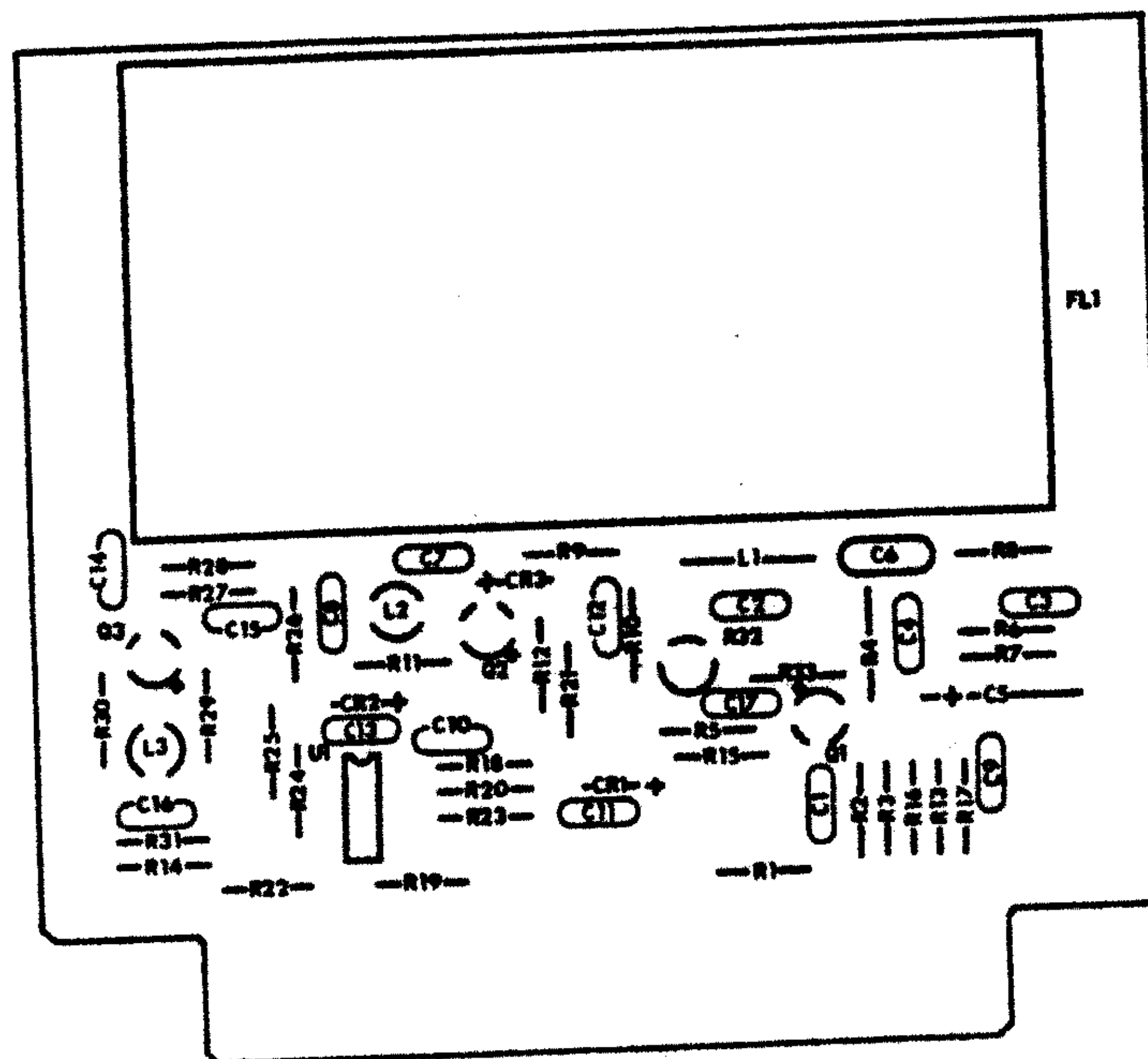
REF DESIG PREFIX A4A5

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	15	34452-1	14632	
C2 Thru C4	Same as C1				
C5	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	1	CS13BE156K	81349	56289
C6	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C7 Thru C17	Same as C1				
CR1	Diode	3	1N4449	80131	93332
CR2	Same as CR1				
CR3	Same as CR1				
FL1	Filter, Bandpass	1	92121	14632	
L1	Coil, Fixed, Molded: 1000 μ H	1	2500-28	99800	
L2	Coil, Fixed: 6.8 mH	2	553-3635-47	71279	
L3	Same as L2				
MP1	Transipad	3	7717-89DAP	13103	
Q1	Transistor	3	2N2222A	80131	04713
Q2	Same as Q1				
Q3	Same as Q1				
R1	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	6	CF1/4-10K/J	09021	
R2	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	1	CF1/4-3.9K/J	09021	
R3	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	1	CF1/4-1.0K/J	09021	
R4	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	3	CF1/4-10 OHMS/J	09021	
R5	Resistor, Fixed, Composition: 270 Ω , 5%, 1/4 W	1	CF1/4-270 OHMS/J	09021	
R6	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	4	CF1/4-22 OHMS/J	09021	
R7	Same as R6				
R8	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	1	CF1/4-1.2K/J	09021	
R9	Resistor, Fixed, Composition: 2.4 k Ω , 5%, 1/4 W	2	CF1/4-2.4K/J	09021	
R10	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	3	CF1/4-4.7 K/J	09021	
R11	Same as R4				
R12	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	6	CF1/4-100 OHMS/J	09021	
R13	Same as R6				
R14	Same as R1				
R15	Resistor, Fixed, Composition: 15 k Ω , 5%, 1/4 W	1	CF1/4-15K/J	09021	
R16	Same as R1				
R17	Same as R6				
R18	Same as R12				
R19	Same as R1				
R20	Same as R12				
R21	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	2	CF1/4-22K/J	09021	
R22	Same as R1				

FIGURE 5-20

REF DESIG PREFIX A4A5

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R23	Same as R10	1	CF1/4-24K/J	09021	
R24	Resistor, Fixed, Composition: 24 k Ω , 5%, 1/4 W				
R25	Same as R12				
R26	Same as R21				
R27	Same as R9				
R28	Same as R10				
R29	Same as R12				
R30	Same as R4	1	62PR500	73138	
R31	Same as R1				
R32	Resistor, Variable, Film: 500 Ω , 10%, 1/2 W	1	MC1458N	18324	
R33	Same as R12				
U1	Integrated Circuit				

Figure 5-20. Type 791597-1 ISB, LSB Filter Switch (A4A5),
Location of Components

5.6.4.6 Type 78112-1 AGC Amplifier

REF DESIG PREFIX A4A6

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Electrolytic, Tantalum: 47 μ F, 10%, 20 V	2	CS13BE476K	81349	56289
C2	Not Used				
C3	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	2	34452-1	14632	
C4	Capacitor, Electrolytic, Tantalum: 33 μ F, 10%, 10 V	1	CS13BC336K	81349	56289
C5	Same as C3				
C6	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C7	Same as C1				
CR1	Not Used				
CR2	Diode, Zener: 5.6 V	1	1N752A	80131	04713
CR3	Not Used				
CR4	Not Used				
CR5	Diode	5	1N4449	80131	93332
CR6 Thru CR9	Same as CR5				
MP1	Transipad	7	7717-89DAP	13103	
Q1	Transistor	6	2N2222A	80131	04713
Q2	Transistor	1	2N2907/JAN	81350	
Q3 Thru Q7	Same as Q1				
R1	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	4	CF1/4-100K/J	09021	
R2	Resistor, Fixed, Composition: 47 k Ω , 5%, 1/4 W	2	CF1/4-47K/J	09021	
R3	Resistor, Fixed, Composition: 470 k Ω , 5%, 1/4 W	2	CF1/4-470K/J	09021	
R4	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	5	CF1/4-100 OHMS/J	09021	
R5	Same as R1				
R6	Resistor, Fixed, Composition: 330 k Ω , 5%, 1/4 W	1	CF1/4-330K/J	09021	
R7	Resistor, Fixed, Composition: 6.8 k Ω , 5%, 1/4 W	4	CF1/4-6.8K/J	09021	
R8	Same as R4				
R9	Resistor, Fixed, Composition: 15 k Ω , 5%, 1/4 W	4	CF1/4-15K/J	09021	
R10	Resistor, Fixed, Composition: 150 k Ω , 5%, 1/4 W	1	CF1/4-150K/J	09021	
R11	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	5	CF1/4-10K/J	09021	
R12	Resistor, Fixed, Composition: 82 k Ω , 5%, 1/4 W	1	CF1/4-82K/J	09021	
R13	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	2	CF1/4-1.0K/J	09021	
R14	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	1	CF1/4-1.2K/J	09021	
R15	Same as R7				
R16	Same as R7				
R17	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	1	CF1/4-22K/J	09021	
R18	Resistor, Fixed, Composition: 270 k Ω , 5%, 1/4 W	1	CF1/4-270K/J	09021	
R19	Resistor, Fixed, Composition: 680 k Ω , 5%, 1/4 W	1	CF1/4-680K/J	09021	
R20	Same as R11				
R21	Same as R9				

REF DESIG PREFIX A4A6

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R22	Same as R9				
R23	Same as R3				
R24	Same as R9				
R25	Resistor, Fixed, Composition: 1.5 k Ω , 5%, 1/4 W	1	CF1/4-1.5K/J	09021	
R26	Resistor, Fixed, Composition: 2.2 k Ω , 5%, 1/4 W	1	CF1/4-2.2K/J	09021	
R27	Same as R11				
R28	Same as R4				
R29	Same as R4				
R30	Same as R11				
R31	Resistor, Fixed, Composition: 2.7 k Ω , 5%, 1/4 W	1	CF1/4-2.7K/J	09021	
R32	Resistor, Fixed, Composition: 390 Ω , 5%, 1/4 W	1	CF1/4-390 OHMS/J	09021	
R33	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	2	CF1/4-4.7K/J	09021	
R34	Not Used				
R35	Same as R33				
R36	Resistor, Fixed, Composition: 68 k Ω , 5%, 1/4 W	3	CF1/4-68K/J	09021	
R37	Same as R1				
R38	Same as R36				
R39	Same as R36				
R40	Same as R1				
R41	Same as R7				
R42	Same as R4				
R43	Same as R2				
R44	Not Used				
R45	Same as R11				
R46*	Resistor, Fixed, Composition: 39 k Ω , 5%, 1/4 W	1	CF1/4-39K/J	09021	
R47	Resistor, Fixed, Composition: 820 Ω , 5%, 1/4 W	2	CF1/4-820 OHMS/J	09021	
R48	Resistor, Fixed, Composition: 68 Ω , 5%, 1/4 W	1	CF1/4-68 OHMS/J	09021	
R49	Resistor, Fixed, Composition: 3.3 k Ω , 5%, 1/4 W	1	CF1/4-3.3K/J	09021	
R50*	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	1	CF1/4-3.9K/J	09021	
R51*	Same as R47				
R52	Same as R13				
U1	Integrated Circuit	2	MC3403P	04713	
U2	Same as U1				
*	Nominal value, final value factory selected.				

5.6.4.7 Type 72488-1 455 kHz Amplifier/AM Detector

REF DESIG PREFIX A4A7

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	20	34452-1	14632	
C2	Same as C1				
C3	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	3	34453-1	14632	
C4	Not Used				
C5	Same as C1				
C6	Same as C1				
C7	Same as C3				
C8	Same as C1				
C9	Capacitor, Mica, Dipped: 3300 pF, 2%, 500 V	2	CM06FD332G03	81349	72136
C10	Capacitor, Mica, Dipped: 180 pF, 2%, 500 V	2	CM05FD181G03	81349	72136
C11	Same as C9				
C12 Thru C20	Same as C1				
C21	Not Used				
C22 Thru C25	Same as C1				
C26	Same as C10				
C27	Same as C1				
C28	Same as C3				
C29	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	1	CS13BE156K	81349	56289
C30	Same as C1				
CR1	Diode	5	1N4449	80131	93332
CR2 Thru CR5	Same as CR1				
L1	Coil, Fixed: 6.8 mH	5	553-3635-47	71279	
L2	Coil, Variable	2	558-7107-32	71279	
L3	Same as L2				
L4 Thru L7	Same as L1				
MP1	Transipad	6	7717-44DAP	13103	
Q1	Transistor	2	841001-1	14632	
Q2	Same as Q1				
Q3	Transistor	4	2N2222A	80131	04713
Q4 Thru Q6	Same as Q3				
R1	Resistor, Fixed, Composition: 33 k Ω , 5%, 1/4 W	1	CF1/4-33K/J	09021	
R2	Resistor, Fixed, Composition: 2.2 k Ω , 5%, 1/4 W	2	CF1/4-2.2K/J	09021	
R3	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	2	CF1/4-3.9K/J	09021	
R4	Resistor, Fixed, Composition: 39 k Ω , 5%, 1/4 W	2	CF1/4-39K/J	09021	

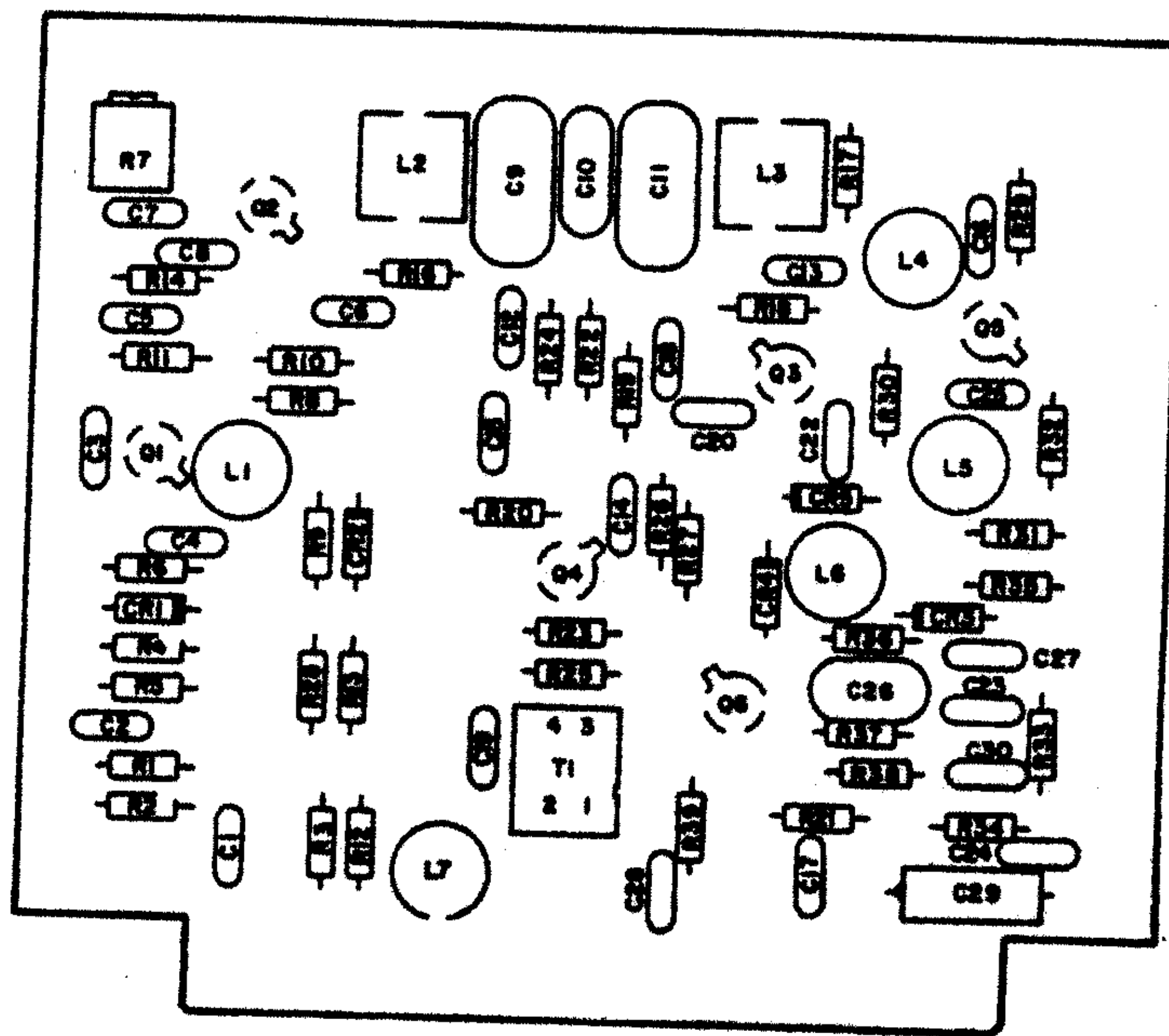


Figure 5-22. Type 72488-1 455 kHz Amplifier/AM Detector (A4A7),
Location of Components

REF DESIG PREFIX A4A7

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R5	Resistor, Fixed, Composition: 120 k Ω , 5%, 1/4 W	2	CF1/4-120K/J	09021	
R6	Resistor, Fixed, Composition: 270 Ω , 5%, 1/4 W	2	CF1/4-270 OHMS/J	09021	
R7	Resistor, Variable, Film: 5 k Ω , 10%, 1/2 W	1	62PAR5K	73138	
R8	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	2	CF1/4-220 OHMS/J	09021	
R9	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	6	CF1/4-100 OHMS/J	09021	
R10	Resistor, Fixed, Composition: 680 k Ω , 5%, 1/4 W	1	CF1/4-680K/J	09021	
R11	Resistor, Fixed, Composition: 47 k Ω , 5%, 1/4 W	2	CF1/4-47K/J	09021	
R12	Same as R3				
R13	Same as R4				
R14	Same as R6				
R15	Not Used				
R16	Resistor, Fixed, Composition: 47 Ω , 5%, 1/4 W	2	CF1/4-47 OHMS/J	09021	
R17	Resistor, Fixed, Composition: 8.2 k Ω , 5%, 1/4 W	1	CF1/4-8.2K/J	09021	
R18	Same as R9				
R19	Same as R9				
R20	Resistor, Fixed, Composition: 3.3 k Ω , 5%, 1/4 W	1	CF1/4-3.3K/J	09021	
R21	Same as R9				
R22	Resistor, Fixed, Composition: 12 k Ω , 5%, 1/4 W	1	CF1/4-12K/J	09021	
R23	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	1	CF1/4-4.7K/J	09021	
R24	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	1	CF1/4-22 OHMS/J	09021	
R25	Resistor, Fixed, Composition: 470 Ω , 5%, 1/4 W	1	CF1/4-470 OHMS/J	09021	
R26	Resistor, Fixed, Composition: 15 Ω , 5%, 1/4 W	1	CF1/4-15 OHMS/J	09021	
R27	Resistor, Fixed, Composition: 150 Ω , 5%, 1/4 W	1	CF1/4-150 OHMS/J	09021	
R28	Same as R5				
R29	Resistor, Fixed, Composition: 1.5 k Ω , 5%, 1/4 W	1	CF1/4-1.5K/J	09021	
R30	Same as R2				
R31	Same as R9				
R32	Same as R8				
R33	Resistor, Fixed, Composition: 1.8 k Ω , 5%, 1/4 W	1	CF1/4-1.8K/J	09021	
R34	Same as R9				
R35	Resistor, Fixed, Composition: 5.6 k Ω , 5%, 1/4 W	1	CF1/4-5.6K/J	09021	
R36	Same as R11				
R37	Same as R16				
R38	Resistor, Fixed, Composition: 6.8 k Ω , 5%, 1/4 W	1	CF1/4-6.8K/J	09021	
R39	Resistor, Fixed, Composition: 560 Ω , 5%, 1/4 W	1	CF1/4-560 OHMS/J	09021	
T1	Transformer, Wideband	1	70-130	06978	

5.6.4.8 Type 791598-1 ISB Detector/Audio
 (Optional on WJ-8718-9 only)

REF DESIG PREFIX A4A8

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	18	34452-1	14632	
C2	Same as C1				
C3	Same as C1				
C4	Not Used				
C5 Thru C11	Same as C1				
C12	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	2	CS13BE156K	81349	56289
C13	Same as C12				
C14 Thru C17	Same as C1				
C18	Capacitor, Ceramic, Disc: 3300 pF, 10%, 200 V	1	CK06BX332K	81349	56289
C19	Capacitor, Electrolytic, Tantalum: 4.7 μ F, 10%, 35 V	1	CS13BF475K	81349	56289
C20 Thru C22	Same as C1				
C23	Not Used				
C24	Not Used				
C25	Same as C1				
CR1	Diode	3	1N4449	80131	93332
CR2	Same as CR1				
CR3	Not Used				
CR4	Same as CR1				
FB1	Ferrite Bead	2	56-590-65-4A	02114	
FB2	Same as FB1				
L1	Coil, Fixed: 6.8 mH	2	553-3635-47	71279	
L2	Same as L1				
L3	Coil, Fixed: 47 mH	1	553-3635-57	71279	
MP1	Transipad	5	7717-89DAP	13103	
MP2	Shield ISB Detector	1	34983	14632	
Q1	Transistor	2	841001-1	14632	
Q2	Same as Q1				
Q3	Transistor	2	2N2907/JAN	81350	
Q4	Transistor	1	2N2222A	80131	04713
Q5	Same as Q3				
R1	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	4	CF1/4-3.9K/J	09021	
R2	Resistor, Fixed, Composition: 120 k Ω , 5%, 1/4 W	2	CF1/4-120K/J	09021	
R3	Resistor, Fixed, Composition: 33 k Ω , 5%, 1/4 W	2	CF1/4-33K/J	09021	
R4	Resistor, Fixed, Composition: 2.2 k Ω , 5%, 1/4 W	3	CF1/4-2.2K/J	09021	
R5	Resistor, Fixed, Composition: 39 k Ω , 5%, 1/4 W	2	CF1/4-39K/J	09021	
R6	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	2	CF1/4-10 OHMS/J	09021	

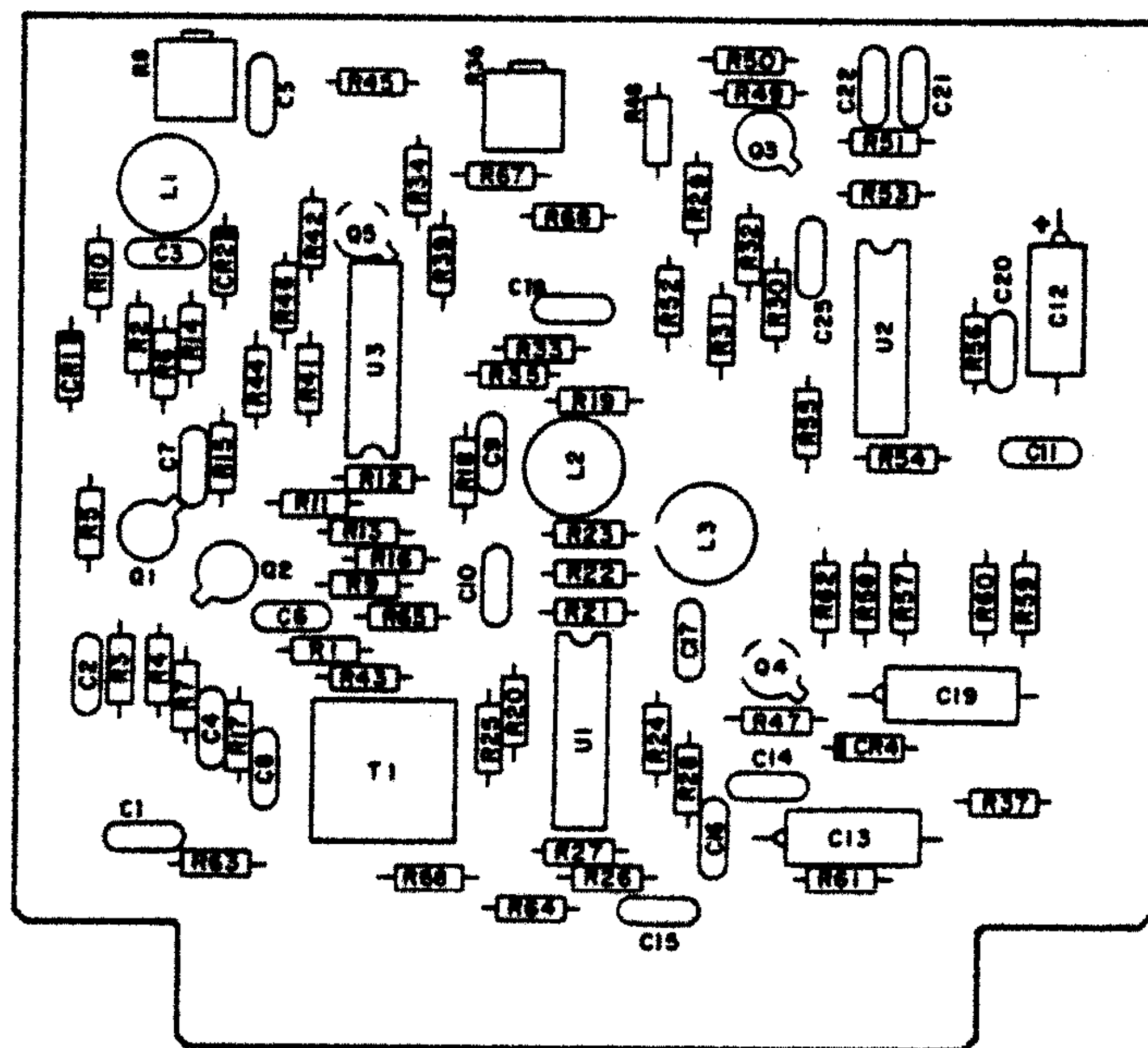


Figure 5-23. Type 791598-1 ISB Detector/Audio (A4A8),
Location of Components

REF DESIG PREFIX A4A8

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R7	Resistor, Fixed, Composition: 270Ω, 5%, 1/4 W	3	CF1/4-270 OHMS/J	09021	
R8	Resistor, Variable, Film: 5 kΩ, 10%, 1/2 W	1	62PAR5K	73138	
R9	Resistor, Fixed, Composition: 47Ω, 5%, 1/4 W	1	CF1/4-47 OHMS/J	09021	
R10	Same as R7				
R11	Same as R1				
R12	Same as R2				
R13	Resistor, Fixed, Composition: 680 kΩ, 5%, 1/4 W	2	CF1/4-680K/J	09021	
R14	Resistor, Fixed, Composition: 47 kΩ, 5%, 1/4 W	4	CF1/4-47K/J	09021	
R15	Same as R5				
R16	Same as R6				
R16	Same as R7				
R18*	Same as R4				
R19	Resistor, Fixed, Composition: 22Ω, 5%, 1/4 W	3	CF1/4-22 OHMS/J	09021	
R20	Resistor, Fixed, Composition: 6.8 kΩ, 5%, 1/4 W	2	CF1/4-6.8K/J	09021	
R21	Resistor, Fixed, Composition: 10 kΩ, 5%, 1/4 W	6	CF1/4-10K/J	09021	
R22	Same as R21				
R23	Same as R20				
R24	Resistor, Fixed, Composition: 1.0 kΩ, 5%, 1/4 W	4	CF1/4-1.0K/J	09021	
R25	Same as R24				
R26	Resistor, Fixed, Composition: 15 kΩ, 5%, 1/4 W	3	CF1/4-15K/J	09021	
R27	Same as R1				
R28	Same as R1				
R29	Same as R14				
R30	Same as R4				
R31	Resistor, Fixed, Composition: 330 kΩ, 5%, 1/4 W	1	CF1/4-330K/J	09021	
R32	Same as R14				
R33	Resistor, Fixed, Composition: 12 kΩ, 5%, 1/4 W	1	CF1/4-12K/J	09021	
R34	Resistor, Fixed, Composition: 1.0 MΩ, 5%, 1/4 W	2	CF1/4-1.0M/J	09021	
R35	Same as R34				
R36	Resistor, Variable, Film: 25 kΩ, 10%, .50 W	1	62PAR25K	73138	
R37	Same as R19				
R38	Not Used				
R39	Same as R14				
R40	Not Used				
R41	Same as R21				
R42	Same as R26				
R43	Resistor, Fixed, Composition: 100Ω, 5%, 1/4 W	2	CF1/4-100 OHMS/J	09021	
*	Nominal value, final value factory selected.				

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

REF DESIG PREFIX A4A8

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R44	Same as R13				
R45	Same as R26				
R46	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	3	CF1/4-22K/J	09021	
R47	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	2	CF1/4-4.7K/J	09021	
R48	Resistor, Fixed, Composition: 82 k Ω , 5%, 1/4 W	1	CF1/4-82K/J	09021	
R49	Same as R24				
R50	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	1	CF1/4-1.2K/J	09021	
R51	Same as R21				
R52	Resistor, Fixed, Composition: 3.3 M Ω , 5%, 1/4 W	1	CF1/4-3.3M/J	09021	
R53	Same as R3				
R54	Resistor, Fixed, Film: 18.2 k Ω , 1%, 1/10 W	1	RN55C1822F	81349	75042
R55	Resistor, Fixed, Film: 82.5 k Ω , 1%, 1/10 W	1	RN55C8252F	81349	75042
R56	Resistor, Fixed, Film: 100 k Ω , 1%, 1/10 W	1	RN55C1003F	81349	75042
R57	Same as R21				
R58	Resistor, Fixed, Composition: 150 Ω , 5%, 1/4 W	2	CF1/4-150 OHMS/J	09021	
R59	Same as R58				
R60	Same as R21				
R61	Same as R19				
R62	Same as R24				
R63	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	1	CF1/4-220 OHMS/J	09021	
R64	Same as R46				
R65	Same as R43				
R66	Resistor, Fixed, Composition: 68 k Ω , 5%, 1/4 W	1	CF1/4-68K/J	09021	
R67	Same as R46				
R68	Same as R47				
T1	Transformer	1	LL010	07338	
U1	Integrated Circuit	1	MC1496P	04713	
U2	Integrated Circuit	2	MC3403P	04713	
U3	Same as U2				

5.6.4.9 Type 791599-1 FM, CW, and SSB Detector/Audio

REF DESIG PREFIX A4A9

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	8	34452-1	14632	
C2 Thru C5	Same as C1				
C6	Capacitor, Mica, Dipped: 470 pF, 2%, 500 V	1	DM15-471G	72136	
C7	Capacitor, Mica, Dipped: 330 pF, 2%, 500 V	2	CM05FD331G03	81349	72136
C8	Capacitor, Mica, Dipped: 390 pF, 2%, 500 V	1	CM05FD391G03	81349	72136
C9	Capacitor, Ceramic, Disc: 150 pF, 5%, 50 V	1	1U150RJ	93958	
C10	Same as C7				
C11	Capacitor, Plastic, Tubular: 0.015 μ F, 5%, 100 V	1	663UW153-5-1W	84411	
C12	Same as C1				
C13	Capacitor, Electrolytic, Tantalum: 18 μ F, 10%, 20 V	1	196D186X9020KE3	56289	
C14	Same as C1				
C15	Same as C1				
C16	Capacitor, Ceramic, Disc: 1 μ F, 20%, 50 V	1	8131-050-651-105M	72982	
C17	Capacitor, Mica, Dipped: 2700 pF, 2%, 500 V	1	CM06FD272G03	81349	72136
C18	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	1	CS13BE156K	81349	56289
C19	Capacitor, Electrolytic, Tantalum: 4.7 μ F, 20%, 35 V	1	196D475X0035JE3	56289	
FB1	Ferrite Bead	2	56-590-65-4A	02114	
FB2	Same as FB1				
L1	Coil, Variable	1	30312-258	14632	
L2	Not used				
L3	Coil, Fixed: 47 mH	1	553-3635-57	71279	
MP1	Transipad	4	7177-115DAP	13103	
Q1	Transistor	2	2N2907/JAN	81350	
Q2	Transistor	2	2N2222A	80131	04713
Q3	Same as Q1				
Q4	Same as Q2				
R1	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	4	CF1/4-10K/J	09021	
R2	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	3	CF1/4-10.K/J	09021	
R3	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	1	CF1/4-220 OHMS/J	09021	
R4	Resistor, Fixed, Composition: 47 Ω , 5%, 1/4 W	3	CF1/4-47 OHMS/J	09021	
R5	Resistor, Fixed, Composition: 68 k Ω , 5%, 1/4 W	3	CF1/4-68K/J	09021	
R6	Resistor, Fixed, Composition: 47 k Ω , 5%, 1/4 W	3	CF1/4-47K/J	09021	
R7	Resistor, Fixed, Composition: 56 k Ω , 5%, 1/4 W	1	CF1/4-56K/J	09021	
R8	Resistor, Fixed, Composition: 4.7 k Ω , 5%, 1/4 W	2	CF1/4-4.7K/J	09021	
R9	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	1	CF1/4-2.2K/J	09021	
R10	Resistor, Fixed, Composition: 560 k Ω , 5%, 1/4 W	1	CF1/4-560K/J	09021	
R11	Resistor, Fixed, Composition: 470 k Ω , 5%, 1/4 W	1	CF1/4-470K/J	09021	
R12	Resistor, Fixed, Composition: 15 k Ω , 5%, 1/4 W	3	CF1/4-15K/J	09021	
R13	Same as R12				

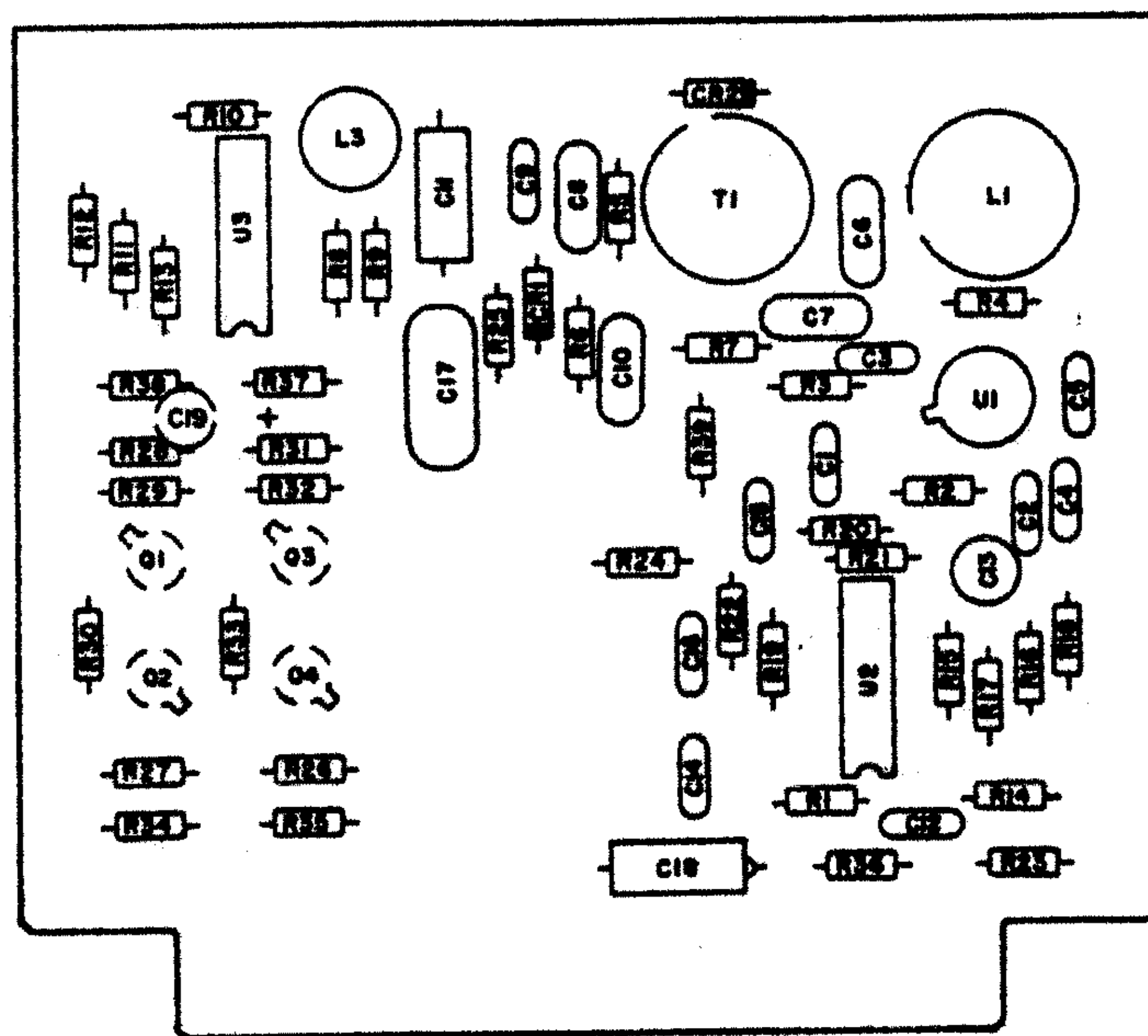


Figure 5-24. Type 791599-1 FM, CW and SSB Detector (A4A9),
Location of Components

REF DESIG PREFIX A4A9

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R14	Resistor, Fixed, Composition: 6.8 k Ω , 5%, 1/4 W	4	CF1/4-6.8K/J	09021	
R15	Same as R1				
R16	Same as R1				
R17	Same as R14				
R18	Same as R2				
R19	Same as R2				
R20	Same as R12				
R21	Resistor, Fixed, Composition: 3.9 k Ω , 5%, 1/4 W	2	CF1/4-3.9K/J	09021	
R22	Same as R21				
R23	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	2	CF1/4-100 OHMS/J	09021	
R24	Resistor, Fixed, Composition: 150 Ω , 5%, 1/4 W	1	CF1/4-150 OHMS/J	09021	
R25	Resistor, Fixed, Composition: 5.6 k Ω , 5%, 1/4 W	1	CF1/4-5.6K/J	09021	
R26	Same as R5				
R27	Same as R6				
R28	Same as R4				
R29	Resistor, Fixed, Composition: 82 k Ω , 5%, 1/4 W	2	CF1/4-82K/J	09021	
R30	Same as R14				
R31	Same as R4				
R32	Same as R29				
R33	Same as R14				
R34	Same as R6				
R35	Same as R5				
R36	Same as R23				
R37	Same as R8				
R38	Same as R1				
R39	Resistor, Fixed, Composition: 470 Ω , 5%, 1/4 W	1	CF1/4-470 OHMS/J	09021	
T1	Transformer	1	30312-257	14632	
U1	Integrated Circuit	1	CA3012	02735	
U2	Integrated Circuit	1	MC1496P	04713	
U3	Integrated Circuit	1	MC3403P	04713	

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

5.6.4.10 Type 746001-1 Audio Amplifier

REF DESIG PREFIX A4A10

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	6	34452-1	14632	
C2	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C3	Same as C1				
C4	Capacitor, Electrolytic, Tantalum: 4.7 μ F, 10%, 35 V	2	CS13BF475K	81349	56289
C5	Not Used				
C6	Same as C1				
C7	Capacitor, Ceramic, Disc: 1 μ F, 20%, 50 V	1	8131-050-651-105M	72982	
C8	Same as C1				
C9	Same as C1				
C10	Same as C4				
C11	Not Used				
C12	Capacitor, Electrolytic, Tantalum: 15 μ F, 10%, 20 V	2	CS13BE156K	81349	56289
C13	Same as C12				
C14	Same as C1				
C15	Not Used				
C16	Not Used				
C17	Capacitor, Ceramic, Disc: 5000 pF, 20%, 500 V	1	B-GP5000PFM	91418	
C18	Capacitor, Electrolytic, Tantalum: 47 μ F, 10%, 35 V	2	CS13BF476K	81349	56289
C19	Same as C18				
C20	Not Used				
C21	Capacitor, Mica, Dipped: 24 pF, 5%, 500 V	1	CM05ED240J03	81349	72136
CR1	Diode	1	1N4449	80131	93332
CR2	Diode	2	1N198A	80131	93332
CR3	Same as CR2				
Q1	Transistor	1	U1899E	15818	
R1	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/4 W	3	CF1/4-22K/J	09021	
R2	Resistor, Fixed, Composition: 330 k Ω , 5%, 1/4 W	1	CF1/4-330K/J	09021	
R3	Resistor, Fixed, Composition: 47 k Ω , 5%, 1/4 W	2	CF1/4-47K/J	09021	
R4	Same as R3				
R5	Resistor, Fixed, Composition: 2.2 M Ω , 5%, 1/4 W	1	CF1/4-2.2M/J	09021	
R6	Resistor, Fixed, Composition: 20 k Ω , 5%, 1/4 W	1	CF1/4-20K/J	09021	
R7	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	5	CF1/4-100K/J	09021	
R8 Thru R10	Same as R7				
R11	Same as R1				
R12	Resistor, Fixed, Composition: 12 k Ω , 5%, 1/4 W	1	CF1/4-12K/J	09021	
R13	Resistor, Fixed, Composition: 27 k Ω , 5%, 1/4 W	1	CF1/4-27K/J	09021	
R14	Resistor, Fixed, Composition: 6.8 k Ω , 5%, 1/4 W	2	CF1/4-6.8K/J	09021	
R15	Not Used				
R16	Not Used				

REF DESIG PREFIX A4A10					
REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R17	Resistor, Fixed, Composition: 18 k Ω , 5%, 1/4 W	1	CF1/4-18K/J	09021	
R18	Same as R7				
R19	Resistor, Fixed, Film: 2.0 k Ω , 1%, 1/10 W	1	RN55C2001F	81349	75042
R20	Resistor, Fixed, Film: 100 k Ω , 1%, 1/10 W	2	RN55C1003F	81349	75042
R21	Same as R20				
R22	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	2	CF1/4-100 OHMS/J	09021	
R23	Same as R1				
R24	Same as R14				
R25	Not Used				
R26	Not Used				
R27	Same as R22				
RA1	Heatsink				
T1	Transformer	1	24566-1	14632	
U1	Integrated Circuit	1	LL010	07388	
U2	Integrated Circuit	1	MC3403P	04713	
		1	LM378N	27014	

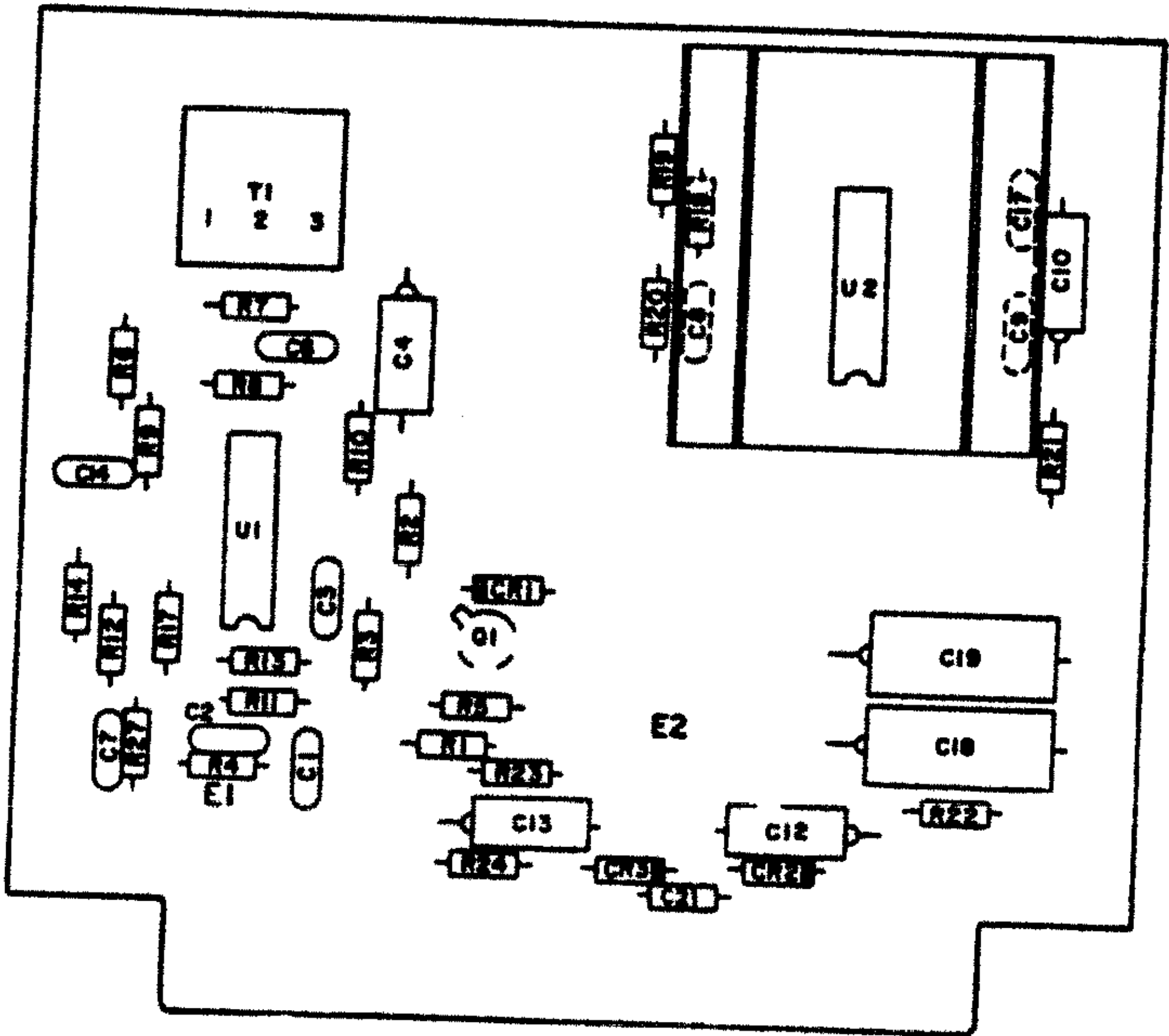


Figure 5-25. Type 746001-1 Audio Amplifier (A4A10),
Location of Components

5.6.5 TYPE 791570-1 SYNTHESIZER MOTHERBOARD

REF DESIG PREFIX A5

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	1st and 3rd LO, Timebase	1	791630	14632	
A2	2nd LO Synthesizer	1	791601	14632	
A3	BFO Synthesizer	1	791576	14632	
C1	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	58	34453-1	14632	
C2 Thru C58	Same as C1				
C59	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	4	34452-1	14632	
C60 Thru C62	Same as C59				
J1	Faston Tab	3	62073-1	00779	
J2	Same as J1				
J3	Same as J1				
L1	Ferrite Choke	4	VK200-10-3B	02114	
L2 Thru L4	Same as L1				
MP1	Not Used				
MP2	Insulator	2	60-11-5791-1674	18565	
--	Cable Assembly	1	34832-1	14632	
P1	Plug Assembly	1	88523-1	00779	
--	Cable Assembly	1	34832-2	14632	
P2	Plug Assembly	1	88524-1	00779	
RA1	Heatsink	1	270921	14632	
U1	Voltage Regulator	2	7805UC	07263	
U2	Same as U1				

PACITORS SHOWN ON SIDE VIEW

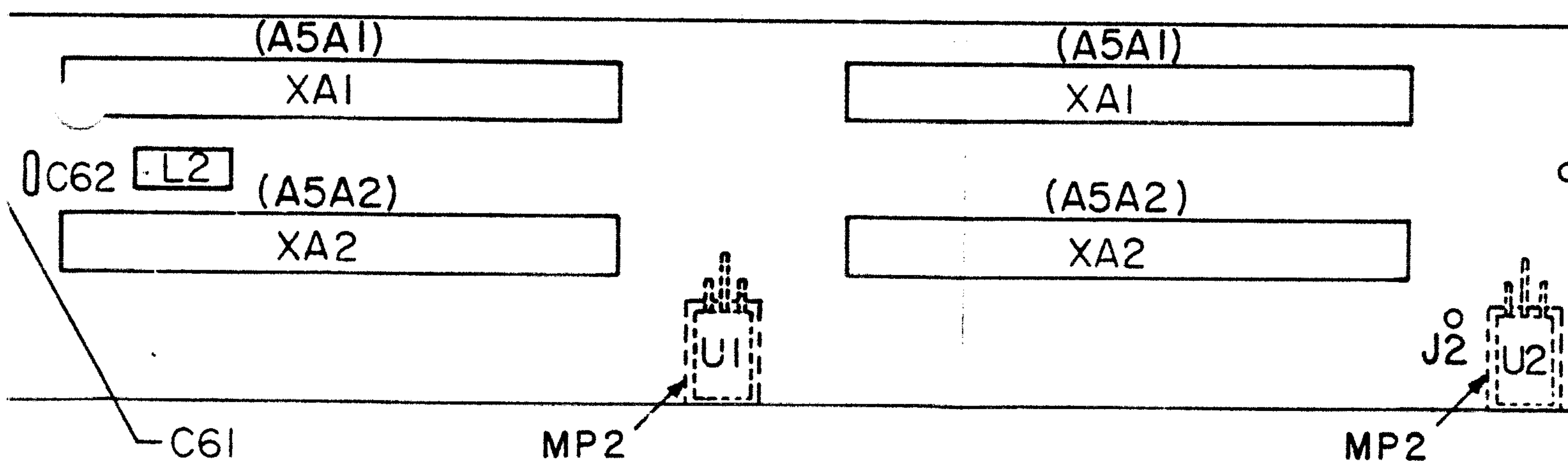
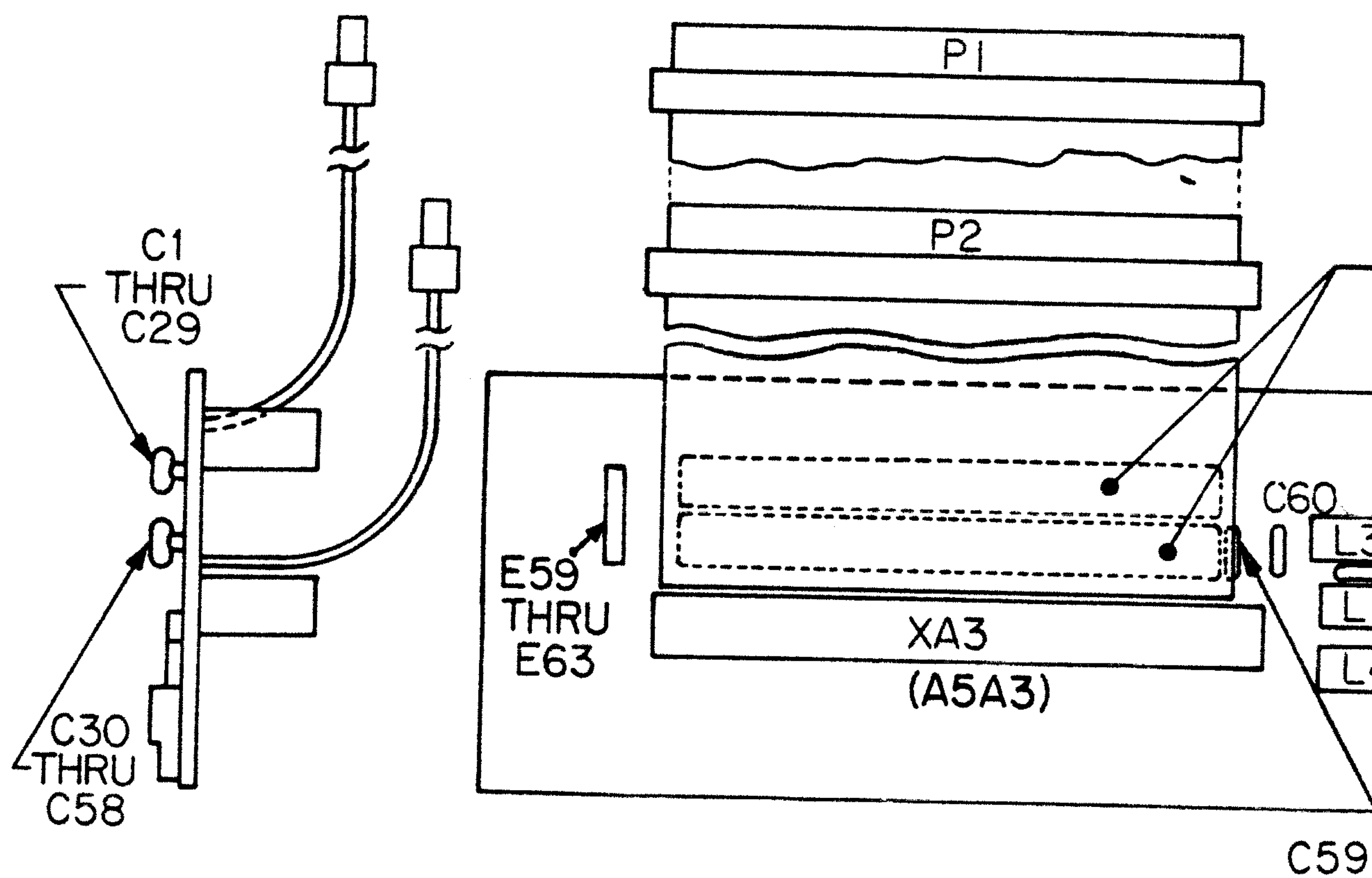


Figure 5-26. Type 791570-1 Synthesizer Motherboard
Location of Components

FIGURE 5-26



5.6.5.1 Type 791630-1 1st and 3rd LO Synthesizer

REF DESIG PREFIX A5A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	1st LO VCO Assembly	1	791629	14632	
A2	1st and 3rd LO Synthesizer	1	791600	14632	
C1	Capacitor, Mica, Dipped: 1600 pF, 2%, 500 V	2	CM06FD162G03	81349	72136
C2	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 100 V	2	8131M100-651-474M	72982	
C3	Same as C1				
C4	Capacitor, Ceramic, Disc: 0.05 μ F, 20%, 100 V	2	C023B101R503M	56289	
C5	Capacitor, Electrolytic, Tantalum: 47 μ F, 20%, 20 V	2	196D476X0020PE4	56289	
C6	Same as C2				
C7	Same as C5				
C8	Same as C4				
C9	Capacitor, Electrolytic, Tantalum: 2.2 μ F, 20%, 35 V	1	196D225X0035JE3	56289	
FB1	Ferrite Bead	17	56-590-65-4A	02114	
FB2 Thru FB17	Same as FB1				
L1	Coil, Fixed: 10 mH	2	553-3635-49	71279	
L2	Coil, Fixed: 0.82 μ H	1	1537-10	99800	
L3	Same as L1				
L4	Coil, Fixed: 4.7 mH	1	553-3635-45	99800	
MP1	Terminal	20	S0S1	04013	
MP2	Insulator	1	60-11-5791-1674	18565	
R1	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	1	CF1/4-100 OHMS/J	09021	
R2	Resistor, Fixed, Film: 10 k Ω , 1%, 1/10 W	1	RN55C1002F	81349	75042
R3	Resistor, Fixed, Film: 1.0 k Ω , 1%, 1/10 W	1	RN55C1001F	81349	75042
R4	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	1	CF1/4-1.0K/J	09021	
R5	Resistor, Fixed, Film: 1.82 k Ω , 1%, 1/10 W	1	RN55C1821F	81349	75042
VR1	Voltage Regulator	1	MC7912CP	04713	

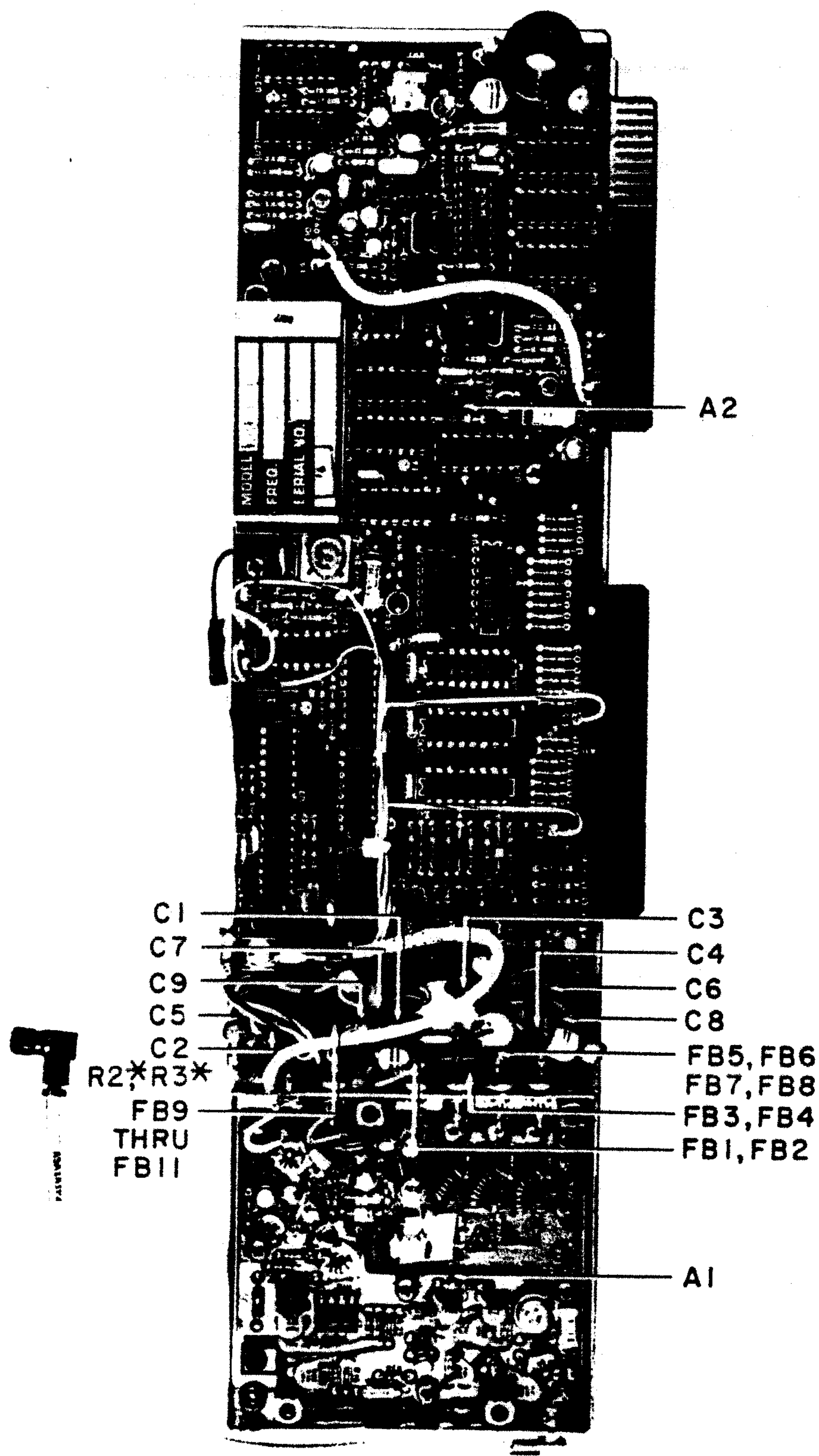
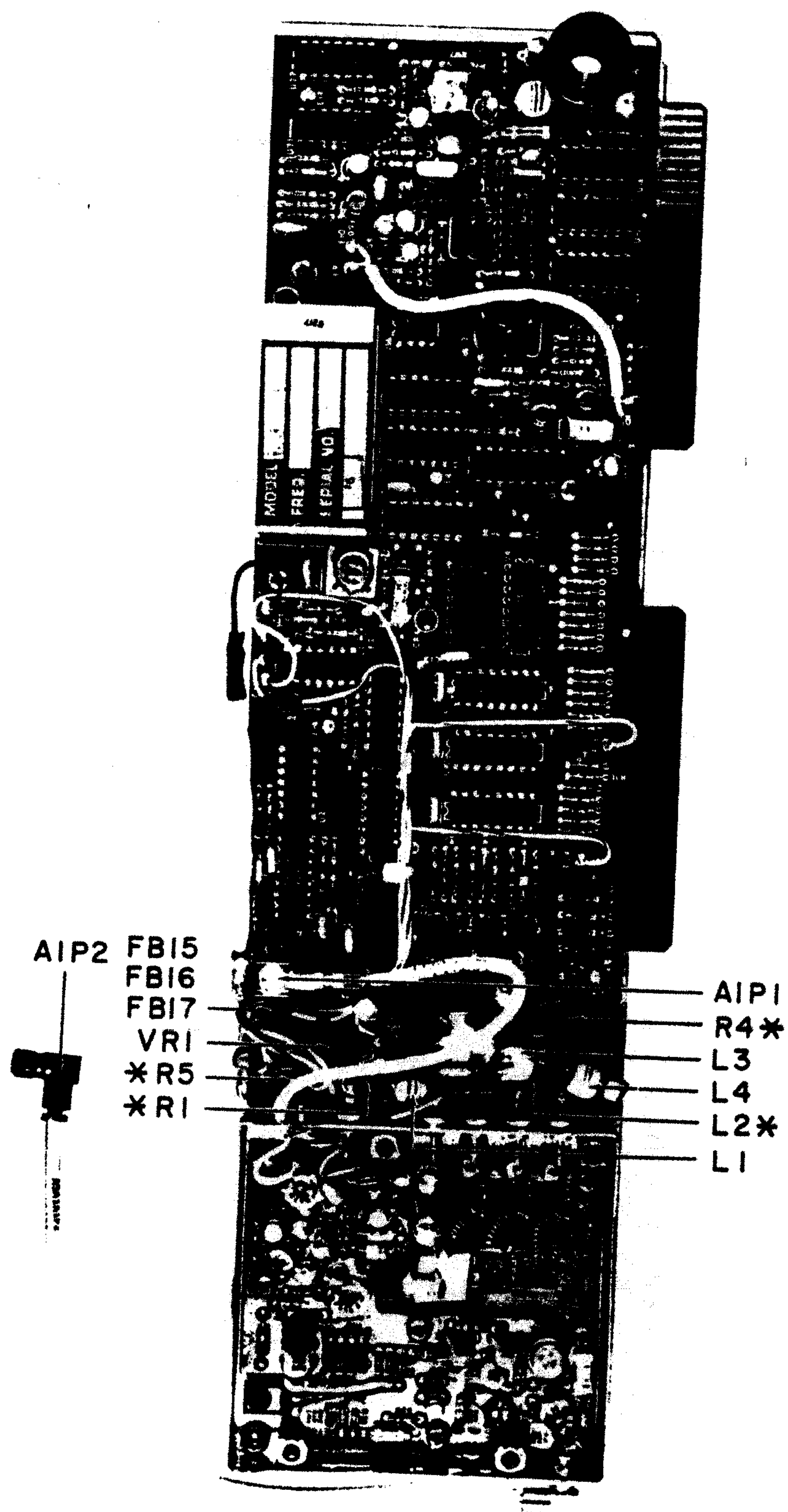


Figure 5-27. Type 791630-1 1st and 3rd LO Synthesizer/Timebase (A5A1),
Location of Components (Sheet 1 of 2)



* DENOTES HIDDEN PART

Figure 5-27. Type 791630-1 1st and 3rd LO Synthesizer/Timebase (A5A1),
Location of Components (Sheet 2 of 2)

5.6.5.1.1 Type 791629 1st LO VCO Assembly

REF DESIG PREFIX A5A1A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	1st LO Voltage Controlled Oscillator	1	34750	14632	
C1	Capacitor, Ceramic, Feedthru: 1000 pF, GMV, 500 V	5	54-794-009-102W	33095	
C2 Thru C4	Same as C1				
C5	Capacitor, Electrolytic, Tantalum: 68 μ F, 20%, 15 V	1	183DR686X0015F	56289	
C6	Same as C1				
C7	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	1	34452-1	14632	
C8	Capacitor, Ceramic, Disc: 6.8 pF, ± 0.25 pF, 100 V	1	8101-100-C0H0-689C	72982	
E1	Connector, Termination	1	144/188	19505	
MP1	Cover Assembly	1	24085-1	14632	
P1	Connector, Plug: SMC Series	1	UG1465/U	80058	19505
P2	Connector, Plug: SMC Series	1	UG1466/U	80058	19505
R1	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/8 W	3	CF1/8-1.2K/J	09021	
R2	Same as R1				
R3	Same as R1				
R4	Resistor, Fixed, Composition: 47 Ω , 5%, 1/8 W	1	CF1/8-47 OHMS/J	09021	

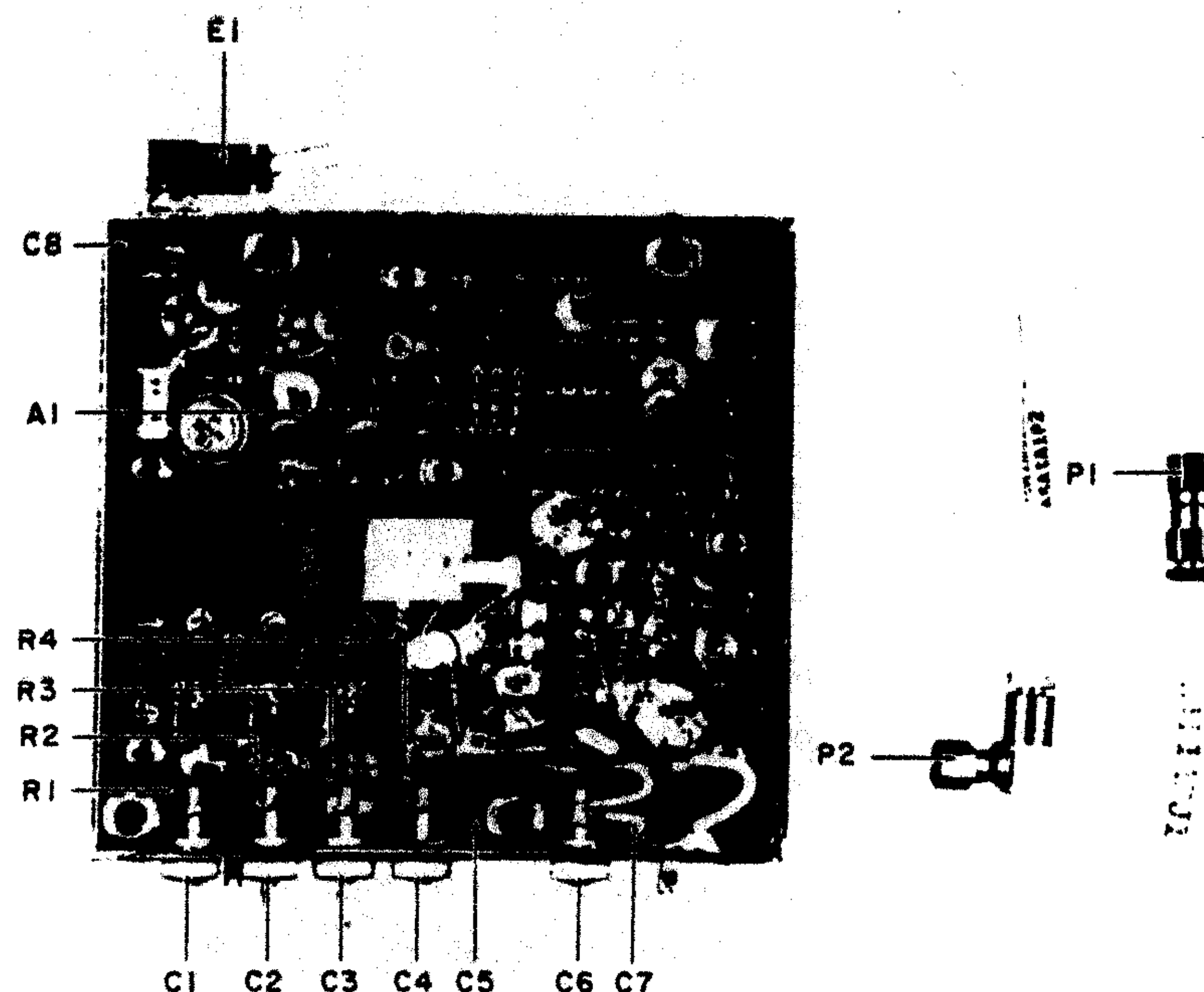


Figure 5-28. Type 791629 1st LO VCO Assembly (A5A1A1),
Location of Components

5.6.5.1.1.1 Part 34750 1st LO Voltage Controlled Oscillator

REF DESIG PREFIX ASA1A1A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Chip: 200 pF, 50%, 500 V	10	32-257578-40	91984	
C2 Thru C4	Same as C1				
C5	Capacitor, Ceramic, Chip: 3 pF, ± 0.25 pF, 500 V	1	603C0G3R0C	91984	
C6*	Capacitor, Ceramic, Tubular: 5.1 pF, ± 0.5 pF, 500 V	2	301-000C0H0-519D	72982	
C7	Capacitor, Composition, Tubular: 2.7 pF, 10%, 500 V	1	QC2.7PFK	95121	
C8	Same as C1				
C9	Capacitor, Composition, Tubular: 1.0 pF, 10%, 500 V	1	QC1.0PFK	95121	
C10	Same as C1				
C11	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C12	Same as C1				
C13	Same as C1				
C14	Capacitor, Ceramic, Disc: 470 pF, 20%, 1000 V	7	BHD470-20PCT	91418	
C15	Capacitor, Mica, Dipped: 100 pF, 2%, 500 V	1	CM04FD101G03	81349	72136
C16	Same as C1				
C17	Same as C1				
C18	Capacitor, Electrolytic, Tantalum: 2.2 μ F, 10%, 20 V	1	CS13BE225K	81349	56289
C19 Thru C21	Same as C14				
C22	Not Used				
C23	Same as C14				
C24	Not Used				
C25	Same as C14				
C26	Capacitor, Ceramic, Disc: 5000 pF, 20%, 100 V	2	C023B101E502M	56289	
C27	Same as C26				
C28	Same as C6				
C29	Same as C14				
CR1	Diode, Pin Switching	3	MPN3401	04713	
CR2	Same as CR1				
CR3	Same as CR1				
CR4	Diode, Tuning VHF and UHF	1	U11-3102	52673	
FB1	Ferrite Bead	1	56-590-65-4A	02114	
L1	Coil, Air	1	24592-1	14632	
L2	Coil, Air	2	24593-1	14632	
L3	Same as L2				
L4	Coil, Air	1	24593-2	14632	
L5	Coil, Fixed: 0.56 μ H	1	202-11	99848	
*	Nominal value, final value factory selected.				

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

REF DESIG PREFIX A5A1A1A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
MP1	Transipad	4	7717-46DAP	13103	
MP2	Transipad	1	7717-22DAP	13103	
Q1	Transistor	1	U310	17856	
Q2	Transistor	2	2N2857/JAN	81350	
Q3	Same as Q2				
Q4	Transistor	1	2N4918	80131	04713
Q5	Transistor	1	2N3251	80131	04713
Q6	Not used				
Q7	Transistor	1	2N5109	80131	02735
R1	Resistor, Fixed, Composition: 33 k Ω , 5%, 1/8 W	2	CF1/8-33K/J	09021	
R2	Resistor, Fixed, Composition: 12 k Ω , 5%, 1/8 W	1	CF1/8-12K/J	09021	
R3	Resistor, Fixed, Composition: 22 k Ω , 5%, 1/8 W	1	CF1/8-22K/J	09021	
R4	Resistor, Fixed, Composition: 470 Ω , 5%, 1/8 W	4	CF1/8-470 OHMS/J	09021	
R5	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/8 W	1	CF1/8-100K/J	09021	
R6	Resistor, Fixed, Composition: 8.2 k Ω , 5%, 1/8 W	2	CF1/8-8.2K/J	09021	
R7	Resistor, Fixed, Composition: 5.6 k Ω , 5%, 1/8 W	2	CF1/8-5.6K/J	09021	
R8	Resistor, Fixed, Composition: 300 Ω , 5%, 1/8 W	2	CF1/8-300 OHMS/J	09021	
R9	Resistor, Fixed, Composition: 220 Ω , 5%, 1/8 W	1	CF1/8-220 OHMS/J	09021	
R10	Resistor, Fixed, Composition: 68 Ω , 5%, 1/8 W	2	CF1/8-68 OHMS/J	09021	
R11	Resistor, Fixed, Composition: 180 Ω , 5%, 1/8 W	1	CF1/8-180 OHMS/J	09021	
R12	Same as R10				
R13	Same as R6				
R14	Same as R7				
R15	Resistor, Fixed, Composition: 47 Ω , 5%, 1/8 W	4	CF1/8-47 OHMS/J	09021	
R16	Same as R8				
R17	Resistor, Fixed, Composition: 150 Ω , 5%, 1/8 W	1	CF1/8-150 OHMS/J	09021	
R18	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/8 W	2	CF1/8-1.0K/J	09021	
R19	Resistor, Fixed, Composition: 390 Ω , 5%, 1/8 W	1	CF1/8-390 OHMS/J	09021	
R20	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	1	CF1/4-10 OHMS/J	09021	
R21	Same as R4				
R22	Same as R4				
R23	Resistor, Fixed, Composition: 10 Ω , 5%, 1/8 W	1	CF1/8-10 OHMS/J	09021	
R24	Resistor, Fixed, Composition: 33 Ω , 5%, 1/8 W	1	CF1/8-33 OHMS/J	09021	
R25	Resistor, Fixed, Composition: 270 Ω , 5%, 1/8 W	1	CF1/8-270 OHMS/J	09021	
R26	Same as R15				
R27	Same as R1				
R28	Same as R15				
R29	Resistor, Fixed, Composition: 22 Ω , 5%, 1/8 W	1	CF1/8-22 OHMS/J	09021	
R30	Same as R15				
R31 Thru R33	Not Used				

REF DESIG	DESCRIPTION	REF DESIG PREFIX A5A1A1A1			
		QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R34	Resistor, Fixed, Composition: 15Ω, 5%, 1/8 W	1	CF1/8-15 OHMS/J	09021	
R35	Resistor, Fixed, Composition: 560Ω, 5%, 1/8 W	1	CF1/8-560 OHMS/J	09021	
R36	Same as R18				
R37	Same as R4				
R38	Not Used				
R39	Not Used				
R40	Resistor, Fixed, Composition: 51Ω, 5%, 1/4 W	1	CF1/4-51 OHMS/J	09021	
T1	Part of P.C. Board				
T2	Transformer, Toroidal	2	21278-23	14632	
T3	Same as T2				
T4	Transformer, Toroidal	2	21278-27	14632	
T5	Not Used				
T6	Same as T4				
U1	Integrated Circuit	1	MC1697L	04713	

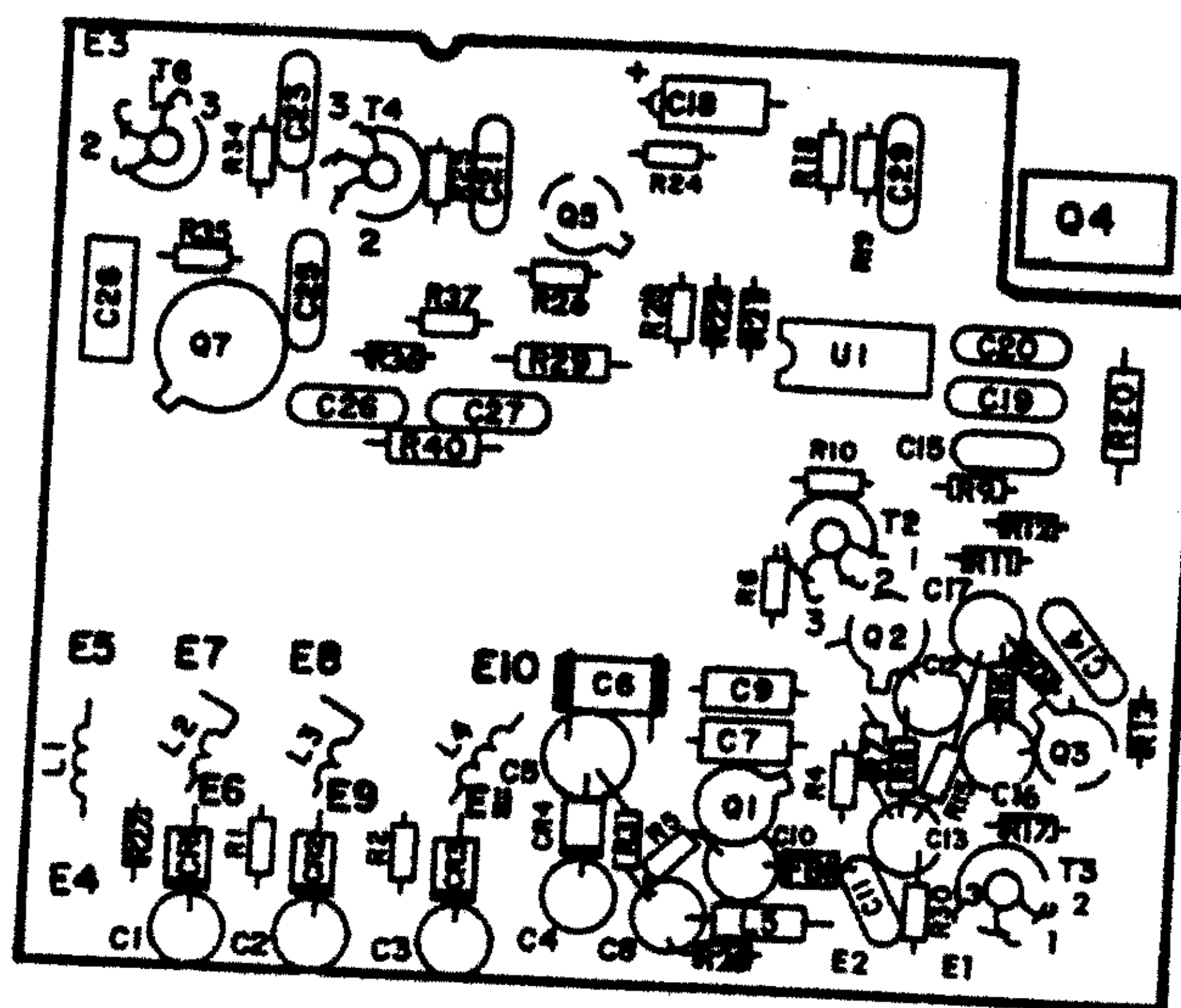


Figure 5-29. Part 34750 1st LO Voltage Controlled Oscillator (A5A1A1A1),
Location of Components

5.6.5.1.2 Type 791600-1 1st and 3rd LO Synthesizer

REF DESIG PREFIX A5A1A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Mica, Dipped: 47 pF, 2%, 500 V	2	CM04ED470G03	81349	72136
C2	Same as C1				
C3	Capacitor, Ceramic, Disc: 470 pF, 2%, 1000 V	2	BHD470-20PCT	91418	
C4 Thru C6	Not Used				
C7	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	13	34453-1	14632	
C8 Thru C15	Same as C7				
C16	Capacitor, Electrolytic, Tantalum: 22 μ F, 20%, 15 V	5	196D226X0015KE3	56289	
C17	Same as C3				
C18	Capacitor, Fixed, Plastic: 4700 pF, 10%, 100 V	1	WMF1D47	14655	
C19	Not Used				
C20	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 100 V	2	8131M100-651-104M	72982	
C21	Same as C7				
C22	Capacitor, Ceramic, Disc: 1000 pF, GMV, 500 V	1	B-GP1000PFP	91418	
C23	Capacitor, Mica, Dipped: 820 pF, 5%, 300 V	1	DM15-821J	72136	
C24	Not Used				
C25	Same as C16				
C26	Capacitor, Electrolytic, Tantalum: 22 μ F, 20%, 35 V	2	196D226X0035PE4	56289	
C27	Not Used				
C28	Capacitor, Ceramic, Tubular: 47 pF, 5%, 500 V	1	308-000C0G0-470J	72982	
C29	Capacitor, Electrolytic, Tantalum: 100 μ F, 20%, 10 V	1	196D107X0010PE4	56289	
C30	Capacitor, Electrolytic, Tantalum: 2.2 μ F, 20%, 35 V	1	196D225X0035JE3	56289	
C31	Same as C16				
C32	Same as C20				
C33	Capacitor, Variable, Ceramic: 2-8 pF, 350 V	1	538-006A2-8	72982	
C34	Capacitor, Mica, Dipped: 220 pF, 2%, 500 V	2	CM05FD221G03	81349	72136
C35	Same as C34				
C36	Same as C7				
C37	Same as C7				
C38	Same as C16				
C39	Same as C26				
C40	Not used				
C41	Same as C7				
C42	Same as C16				
C43*	Capacitor, Mica, Dipped: 15 pF, 5%, 500 V	1	CM04CD150J03	81349	72136
*	Nominal value, final value factory selected.				

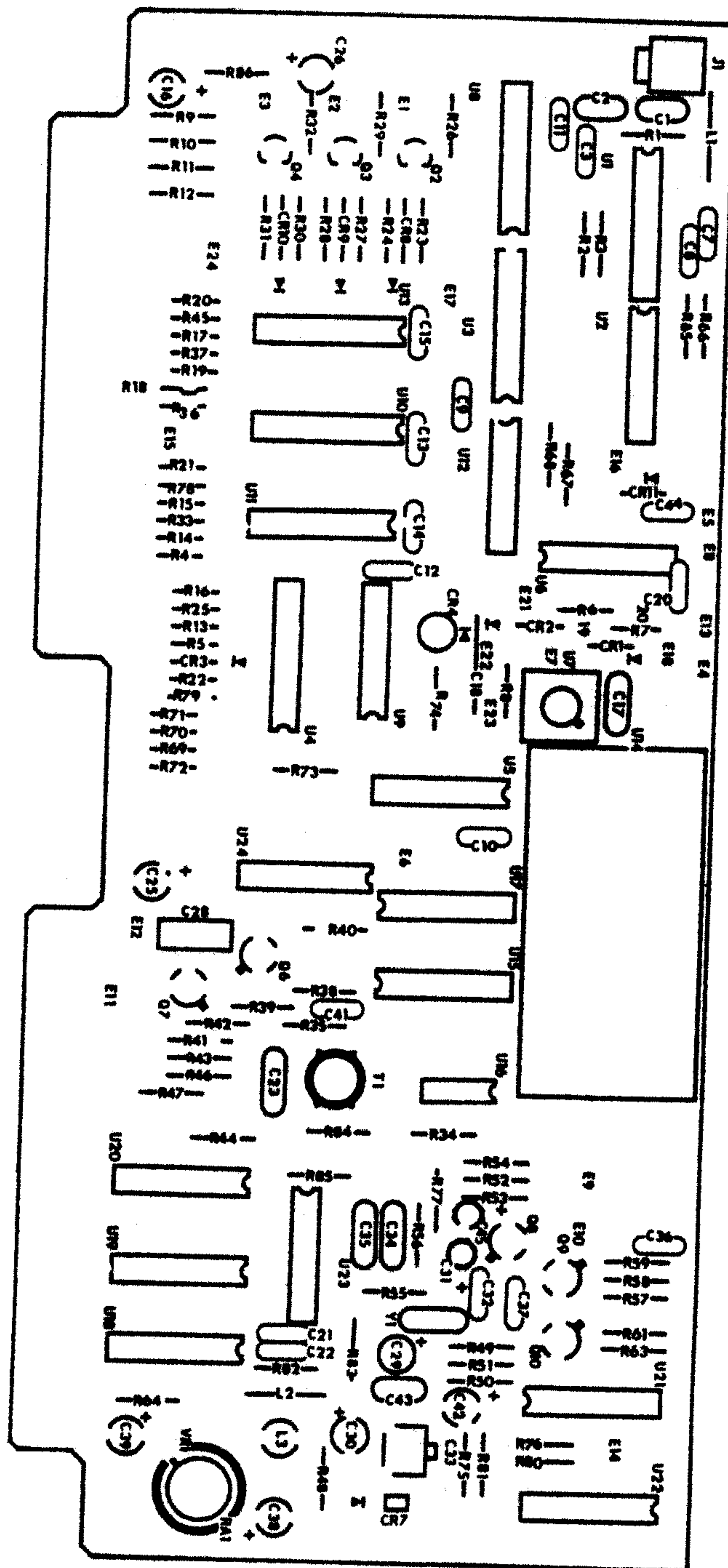


Figure 5-30. Type 791600-1 1st and 3rd LO Synthesizer (A5A1A2),
Location of Components

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

REF DESIG PREFIX A5A1A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C44	Capacitor, Mica, Dipped: 330 pF, 2%, 500 V	1	CM05FD331G03	81349	72136
C45	Capacitor, Electrolytic, Tantalum: 22 μ F, 20%, 10 V	1	196D226X0010JE3	56289	
CR1	Diode	4	5082-2800	28480	
CR2	Same as CR1				
CR3	Same as CR1				
CR4	Diode: LED	1	HLMP-1301	28480	
CR5	Not Used				
CR6	Not Used				
CR7	Diode, Tuning VHF and UHF	1	U11-3102	52673	
CR8	Diode, Zener: 15 V	3	1N965B	80131	04713
CR9	Same as CR8				
CR10	Same as CR8				
CR11	Same as CR1				
J1	Connector, Receptacle: SMC Series	1	50-053-0000	98291	
L1	Coil, Fixed: 0.24 μ H	1	200-11	99848	
L2	Coil, Fixed: 8.2 μ H	1	1537-34	99800	
L3	Coil, Fixed: 100 μ H	1	553-3635-25	71279	
MP1	Transipad	5	7717-89DAP	13103	
MP2	Insulator	1	RCT05145-8	19080	
MP3	Transipad	1	7717-44DAP	13103	
Q1	Not Used				
Q2	Transistor	3	2N4401	80131	04713
Q3	Same as Q2				
Q4	Same as Q2				
Q5	Not Used				
Q6	Transistor	3	2N706	80131	04713
Q7	Same as Q6				
Q8	Transistor	2	2N2222A	80131	04713
Q9	Same as Q8				
Q10	Same as Q6				
R1	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	6	CF1/4-100 OHMS/J	09021	
R2	Resistor, Fixed, Composition: 470 Ω , 5%, 1/4 W	4	CF1/4-470 OHMS/J	09021	
R3	Same as R2				
R4	Resistor, Fixed, Composition: 82 k Ω , 5%, 1/8 W	4	CF1/8-82K/J	09021	
R5	Same as R4				
R6*	Resistor, Fixed, Composition: 6.8 k Ω , 5%, 1/4 W	2	CF1/4-6.8K/J	09021	
R7*	Same as R6				
R8*	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	1	CF1/4-100K/J	09021	
*	Nominal value, final value factory selected.				

REF DESIG PREFIX A5A1A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R9 Thru R12	Same as R1				
R13	Resistor, Fixed, Composition: 100Ω, 5%, 1/8 W	10	CF1/8-100 OHMS/J	09021	
R14 Thru R22	Same as R13				
R23	Resistor, Fixed, Composition: 2.2 kΩ, 5%, 1/4 W	6	CF1/4-2.2K/J	09021	
R24	Resistor, Fixed, Composition: 10 kΩ, 5%, 1/4 W	7	CF1/4-10K/J	09021	
R25	Same as R4				
R26	Resistor, Fixed, Composition: 20 kΩ, 5%, 1/4 W	3	CF1/4-20K/J	09021	
R27	Same as R23				
R28	Same as R24				
R29	Same as R26				
R30	Same as R23				
R31	Same as R24				
R32	Same as R26				
R33	Same as R4				
R34	Resistor, Fixed, Composition: 5.6 kΩ, 5%, 1/4 W	2	CF1/4-5.6K/J	09021	
R35	Same as R34				
R36	Resistor, Fixed, Composition: 27 kΩ, 5%, 1/8 W	3	CF1/8-27K/J	09021	
R37	Same as R36				
R38	Resistor, Fixed, Composition: 1.2 kΩ, 5%, 1/4	1	CF1/4-1.2K/J	09021	
R39	Same as R23				
R40	Resistor, Fixed, Composition: 270Ω, 5%, 1/4 W	5	CF1/4-270 OHMS/J	09021	
R41	Same as R23				
R42	Same as R23				
R43	Resistor, Fixed, Composition: 1.0 kΩ, 5%, 1/4 W	14	CF1/4-1.0K/J	09021	
R44	Same as R2				
R45	Same as R36				
R46	Same as R40				
R47	Same as R40				
R48	Same as R43				
R49	Resistor, Fixed, Composition: 330Ω, 5%, 1/4 W	1	CF1/4-330 OHMS/J	09021	
R50	Same as R24				
R51	Same as R43				
R52	Same as R43				
R53	Same as R24				
R54	Resistor, Fixed, Composition: 22Ω, 5%, 1/4 W	3	CF1/4-22 OHMS/J	09021	
R55	Resistor, Fixed, Composition: 27Ω, 5%, 1/4 W	1	CF1/4-27 OHMS/J	09021	
R56	Same as R40				

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

REF DESIG PREFIX A5A1A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R57	Same as R54				
R58	Resistor, Fixed, Composition: 150Ω, 5%, 1/4 W	2	CF1/4-150 OHMS/J	09021	
R59	Same as R58				
R60	Not Used				
R61	Same as R24				
R62	Not Used				
R63	Resistor, Fixed, Composition: 220Ω, 5%, 1/4 W	1	CF1/4-220 OHMS/J	09021	
R64	Resistor, Fixed, Composition: 3.3Ω, 5%, 1/4 W	1	CF1/4-3.3 OHMS/J	09021	
R65 Thru R68	Same as R43				
R69	Resistor, Fixed, Composition: 1.0 kΩ, 5%, 1/8 W	4	CF1/8-1.0K/J	09021	
R70 Thru R72	Same as R69				
R73	Same as R24				
R74	Same as R2				
R75	Same as R43				
R76	Same as R43				
R77	Same as R54				
R78	Resistor, Fixed, Composition: 47 kΩ, 5%, 1/8 W	2	CF1/8-47K/J	09021	
R79	Same as R78				
R80	Same as R43				
R81	Same as R43				
R82	Resistor, Fixed, Composition: 47Ω, 5%, 1/4 W	1	CF1/4-47 OHMS/J	09021	
R83	Same as R1				
R84	Same as R43				
R85	Same as R43				
R86	Same as R40				
RA1	Heatsink	1	2225B	13103	
T1	Transformer Assembly	1	22295-69	14632	
U1	Integrated Circuit	1	MC12013L	04713	
U2	Integrated Circuit	1	SN74S196J	01295	
U3	Integrated Circuit	1	MC12014L	04713	
U4	Integrated Circuit	1	841013	14632	
U5	Integrated Circuit	2	MC4044P	04713	
U6	Integrated Circuit	1	867400	14632	
U7	Integrated Circuit	1	CA6741T	02735	
U8	Integrated Circuit	3	SN74LS190N	01295	
U9	Integrated Circuit	6	SN74LS196N	01295	
U10	Same as U8				
U11	Same as U8				

REF DESIG PREFIX A5A1A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
U12	Integrated Circuit	1	SN7S74N	01295	
U13	Integrated Circuit	1	SN74184N	01295	
U14	Integrated Circuit	1	841043	14632	
U15	Same as U9				
U16	Integrated Circuit	1	SN75140N	01295	
U17 Thru U20	Same as U9				
U21	Integrated Circuit	1	SN74LS74N	01295	
U22	Same as U5				
U23	Integrated Circuit	1	SN74125N	01295	
U24	Integrated Circuit	1	SN74LS02N	01295	
VR1	Voltage Regulator	1	78M05HC	07263	
Y1	Crystal, Quartz: 11.155 MHz	1	CR64U/11.155MHz	80058	

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

5.6.5.2 Type 791601 2nd LO Synthesizer

REF DESIG PREFIX A5A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	3	34452-1	14632	
C2	Same as C1				
C3	Capacitor, Electrolytic, Tantalum: 47 μ F, 20%, 20 V	3	196D476X0020PE4	56289	
C4	Capacitor, Electrolytic, Tantalum: 22 μ F, 20%, 10 V	7	196D226X0010JE3	56289	
C5	Capacitor, Electrolytic, Tantalum: 1 μ F, 20%, 35 V	2	196D105X0035HE3	56289	
C6	Capacitor, Ceramic, Disc: 2200 pF, 10%, 200 V	1	CK06BX222K	81349	72136
C7	Same as C4				
C8	Same as C3				
C9	Capacitor, Mica, Dipped: 12 pF, 5%, 500 V	1	CM05CD120J03	81349	72136
C10	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	2	34475-1	14632	
C11	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	17	34453-1	14632	
C12	Same as C11				
C13	Same as C10				
C14	Capacitor, Electrolytic, Tantalum: 22 μ F, 20%, 35 V	2	196D226X0035PE4	56289	
C15	Same as C4				
C16	Capacitor, Ceramic, Disc: 470 pF, 20%, 1000 V	3	BHD470-20PCT	91418	
C17	Capacitor, Electrolytic, Tantalum: 150 μ F, 20%, 6 V	1	196D157X0006PE4	56289	
C18	Same as C5				
C19 Thru C21	Same as C11				
C22	Capacitor, Ceramic, Tubular: 10 pF, \pm 0.5 pF, 500 V	1	301-000C0H0-100D	72982	
C23	Capacitor, Mica, Dipped: 220 pF, 2%, 500 V	1	CM05FD221G03	81349	72136
C24	Same as C11				
C25	Same as C3				
C26 Thru C28	Same as C4				
C29	Capacitor, Plastic, Tubular: 0.022 μ F, 5%, 100 V	1	663UW223-5-1W	84411	
C30	Capacitor, Fixed, Plastic: 4700 pF, 10%, 100 V	1	WMF1D47	14655	
C31	Not Used				
C32	Same as C4				
C33	Same as C16				
C34	Same as C16				
C35	Same as C11				
C36	Capacitor, Ceramic, Disc: 1000 pF, GMV, 500 V	7	B-GP1000PFP	91418	
C37	Same as C14				
C38	Same as C36				
C39	Same as C36				
C40	Same as C11				
C41	Same as C36				

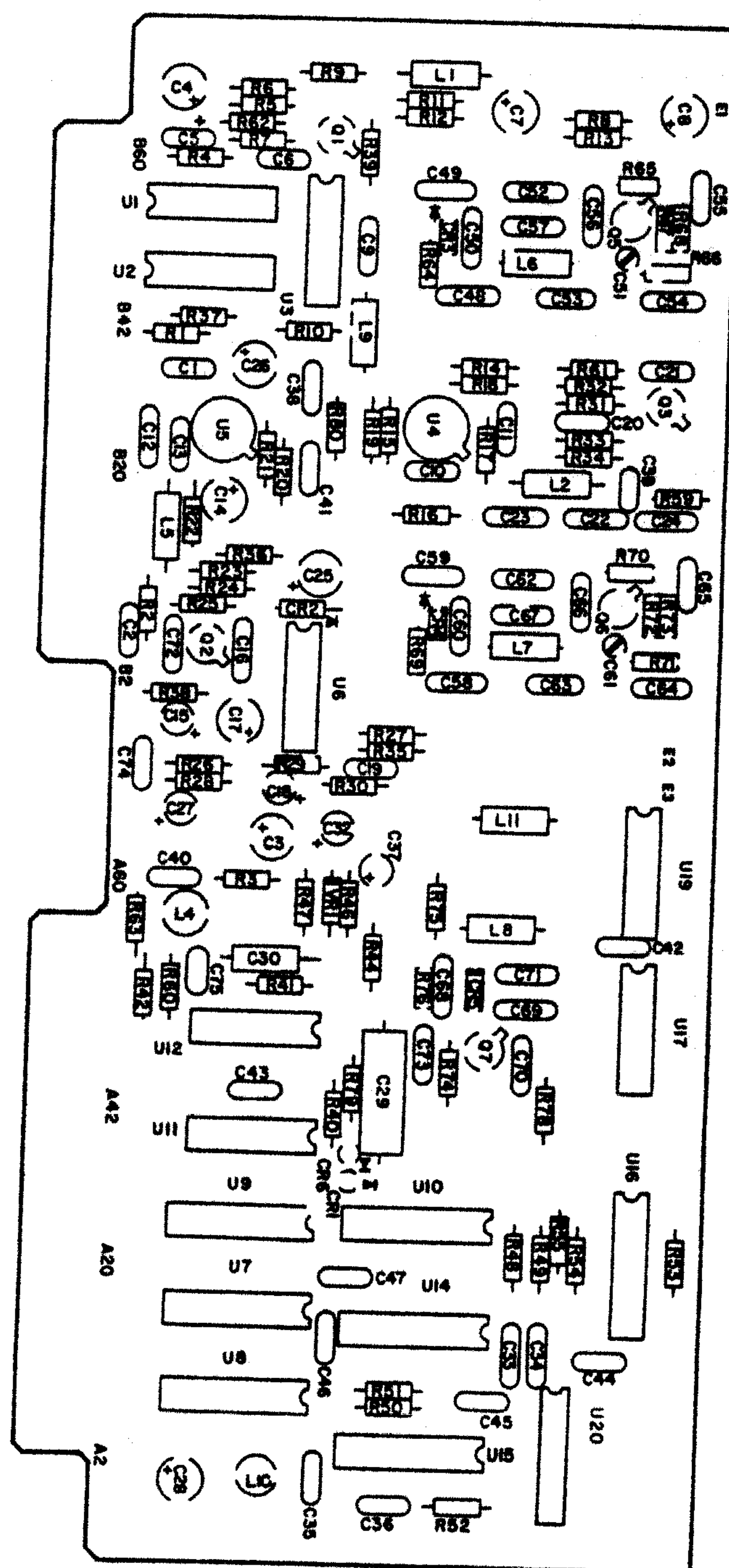


Figure 5-31. Type 791601 2nd LO Synthesizer (A5A2),
Location of Components

REF DESIG PREFIX A5A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C42 Thru C49	Same as C11				
C50	Capacitor, Ceramic, Tubular: 27 pF, 5%, 500 V	1	308-000C0G0-270J	72982	
C51	Capacitor, Variable, Air: .4-2.5pF, 500 V	2	7283	91293	
C52	Capacitor, Ceramic, Tubular: 6.8 pF, ± 0.25 pF, 500 V	2	301-000C0H0-689C	72982	
C53	Capacitor, Ceramic, Tubular: 47 pF, 5%, 500 V	5	308-000C0G0-470J	72982	
C54	Same as C53				
C55	Same as C36				
C56	Capacitor, Ceramic, Tubular: 8.2 pF, ± 0.5 pF, 500 V	1	301-000C0H0-829D	72982	
C57*	Capacitor, Ceramic, Tubular: 5.6 pF, ± 0.5 pF, 500 V	1	301-000T2J0-569D	72982	
C58	Same as C11				
C59	Capacitor, Ceramic, Tubular: 33 pF, 5%, 500 V	1	308-000C0G0-330J	72982	
C60	Same as C53				
C61	Same as C51				
C62	Same as C52				
C63	Same as C53				
C64	Same as C53				
C65	Same as C36				
C66*	Capacitor, Ceramic, Tubular: 2.7 pF, ± 0.25 pF, 500 V	1	301-000C0J0-279C	72982	
C67	Capacitor, Ceramic, Tubular: 5.6 pF, ± 0.5 pF, 500 V	1	301-000U2J0-569D	72982	
C68	Capacitor, Mica, Dipped: 150 pF, 2%, 500 V	1	CM05FD151G03	81349	72136
C69	Capacitor, Ceramic, Tubular: 4.7 pF, ± 0.1 pF, 500 V	1	301-000C0H0-479B	72982	
C70	Capacitor, Ceramic, Tubular: 2.2 pF, ± 0.25 pF, 500 V	1	301-000C0J0-229C	72982	
C71	Capacitor, Ceramic, Tubular: 15 pF, 5%, 500 V	1	301-000C0G0-150J	72982	
C72	Capacitor, Mica, Dipped: 1000 pF, 5%, 100 V	1	DM15-102J	72136	
C73	Same as C36				
C74	Same as C1				
C75	Capacitor, Mica, Dipped: 100 pF, 2%, 500 V	1	CM04FD101G03	81349	72136
CR1	Diode, LED	2	HLMP-1301	28480	
CR2	Diode	1	1N4446	80131	93332
CR3	Diode, Varicap	3	BB109-YELLOW	25088	
CR4	Same as CR3				
CR5	Same as CR3				
CR6	Same as CR1				
L1	Coil, Fixed, Molded: 0.47 μ H	1	1537-06	99800	
L2	Coil, Fixed, Molded: 1.5 μ H	1	1537-16	99800	
L3	Not Used				
*	Nominal value, final value factory selected.				

REF DESIG PREFIX A5A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
L4	Coil, Fixed: 22 mH	1	553-3635-53	71279	04713
L5	Coil, Fixed, Molded: 680 μ H	1	2500-20	99800	
L6	Coil, Fixed: 0.82 μ H	2	1537-10	99800	
L7	Same as L6				
L8	Inductor	1	21210-183	14632	
L9	Coil, Fixed: 2.2 μ H	1	1025-28	99800	
L10	Coil, Fixed: 10 μ H	1	553-3635-13	71279	
L11	Coil, Fixed: 100 μ H	1	1537-76	99800	
MP1	Transipad	3	7717-44DAP	13103	
MP2	Transipad	3	7717-46DAP	13103	
MP3	Cover Assembly	1	24469-1	14632	
MP4	Cover Assembly	1	24469-2	14632	
MP5	Cover Assembly	1	24469-3	14632	
MP6	2nd LO Shield Assembly	1	34844-1	14632	
Q1	Transistor	3	2N2857/JAN	81350	
Q2	Transistor	1	2N2222A	80131	
Q3	Transistor	1	841001-1	14632	
Q4	Not used				
Q5	Same as Q1				
Q6	Same as Q1				
Q7	Transistor	1	U310	17856	
R1	Resistor, Fixed, Composition: 22 Ω , 5%, 1/4 W	4	CF1/4-22 OHMS/J	09021	
R2	Same as R1				
R3	Same as R1				
R4	Resistor, Fixed, Composition: 1.8 k Ω , 5%, 1/4 W	1	CF1/4-1.8K/J	09021	04713
R5	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	7	CF1/4-10 OHMS/J	09021	
R6	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	13	CF1/1-1.0K/J	09021	
R7	Resistor, Fixed, Composition: 1.2 k Ω , 5%, 1/4 W	1	CF1/4-1.2K/J	09021	
R8	Same as R5				
R9	Same as R6				
R10	Resistor, Fixed, Composition: 5.6 Ω , 5%, 1/4 W	1	CF1/4-5.6 OHMS/J	09021	
R11	Resistor, Fixed, Composition: 5.1 k Ω , 5%, 1/4 W	1	CF1/4-5.1K/J	09021	
R12	Same as R6				
R13	Same as R5				
R14	Same as R6				
R15	Resistor, Fixed, Composition: 47 Ω , 5%, 1/4 W	8	CF1/4-47 OHMS/J	09021	
R16 Thru R18	Same as R15				
R19	Resistor, Fixed, Composition: 820 Ω , 5%, 1/4 W	1	CF1/4-820 OHMS/J	09021	
R20	Resistor, Fixed, Composition: 2.2 k Ω , 5%, 1/4 W	2	CF1/4-2.2K/J	09021	

REF DESIG PREFIX A5A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R21	Same as R20				
R22	Resistor, Fixed, Composition: 100Ω, 5%, 1/4 W	1	CF1/4-100 OHMS/J	09021	
R23	Resistor, Fixed, Composition: 18 kΩ, 5%, 1/4 W	1	CF1/4-18K/J	09021	
R24	Same as R6				
R25	Same as R6				
R26	Same as R5				
R27	Resistor, Fixed, Composition: 2.7 kΩ, 5%, 1/4 W	2	CF1/4-2.7K/J	09021	
R28	Same as R5				
R29	Same as R6				
R30	Resistor, Fixed, Composition: 270Ω, 5%, 1/4 W	1	CF1/4-270 OHMS/J	09021	
R31	Resistor, Fixed, Composition: 1.0 MΩ, 5%, 1/4 W	1	CF1/4-1.0M/J	09021	
R32	Resistor, Fixed, Composition: 820 kΩ, 5%, 1/4 W	1	CF1/4-820K/J	09021	
R33	Resistor, Fixed, Composition: 100 kΩ, 5%, 1/4 W	1	CF1/4-100K/J	09021	
R34	Resistor, Fixed, Composition: 360Ω, 5%, 1/4 W	1	CF1/4-360 OHMS/J	09021	
R35	Same as R27				
R36	Same as R5				
R37	Resistor, Fixed, Composition: 4.7Ω, 5%, 1/4 W	1	CF1/4-4.7 OHMS/J	09021	
R38	Same as R5				
R39	Resistor, Fixed, Composition: 56Ω, 5%, 1/4 W	1	CF1/4-56 OHMS/J	09021	
R40	Resistor, Fixed, Composition: 470Ω, 5%, 1/4 W	5	CF1/4-470 OHMS/J	09021	
R41	Same as R6				
R42	Resistor, Fixed, Composition: 10 kΩ, 5%, 1/4 W	4	CF1/4-10K/J	09021	
R43	Not Used				
R44	Resistor, Fixed, Composition: 47 kΩ, 5%, 1/4 W	1	CF1/4-47K/J	09021	
R45	Not Used				
R46	Resistor, Fixed, Composition: 1.5 kΩ, 5%, 1/4 W	1	CF1/4-1.5K/J	09021	
R47	Resistor, Fixed, Composition: 750Ω, 5%, 1/4 W	1	CF1/4-750 OHMS/J	09021	
R48	Same as R15				
R49	Same as R15				
R50	Same as R40				
R51	Same as R40				
R52	Same as R6				
R53	Same as R6				
R54	Same as R40				
R55	Same as R40				
R56	Not Used				
R57	Not Used				
R58	Not Used				
R59	Same as R15				
R60	Same as R6				

REF DESIG PREFIX A5A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R61	Same as R6				
R62	Same as R42				
R63	Same as R42				
R64	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/8 W	3	CF1/8-10K/J	09021	
R65	Resistor, Fixed, Film: 18.2 k Ω , 1%, 1/10 W	4	RN55C1822F	81349	75042
R66	Same as R65				
R67	Resistor, Fixed, Composition: 22 Ω , 5%, 1/8 W	2	CF1/8-22 OHMS/J	09021	
R68	Resistor, Fixed, Film: 3.92 k Ω , 1%, 1/10 W	2	RN55C3922F	81349	75042
R69	Same as R64				
R70	Same as R65				
R71	Same as R65				
R72	Same as R67				
R73	Same as R68				
R74	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	1	CF1/4-220 OHMS/J	09021	
R75	Same as R1				
R76	Same as R64				
R77	Not Used				
R78	Same as R15				
R79	Same as R42				
R80	Same as R6				
U1	Integrated Circuit	3	MC4044P	04713	
U2	Integrated Circuit	1	SN74177N	01295	
U3	Integrated Circuit	1	SN74S74N	01295	
U4	Integrated Circuit	1	796HC	07263	
U5	Integrated Circuit	1	N5733K	18324	
U6	Same as U1				
U7	Integrated Circuit	1	SN74LS190N	01295	
U8	Integrated Circuit	3	SN74LS191N	01295	
U9	Same as U8				
U10	Same as U8				
U11	Integrated Circuit	2	SN74LS00N	01295	
U12	Same as U11				
U13	Not Used				
U14	Integrated Circuit	1	SN74LS168N	01295	
U15	Integrated Circuit	2	MC12013P	04713	
U16	Same as U15				
U17	Integrated Circuit	2	SN74LS196N	01295	
U18	Not Used				
U19	Same as U17				
U20	Same as U11				
VR1	Diode, Zener: 8.2 V	1	1N756A	80131	04713

REPLACEMENT PARTS LIST

WJ-8718 SERIES HF RECEIVER

5.6.5.3 Type 791576-1 BFO Synthesizer

REF DESIG PREFIX A5A3

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Electrolytic, Tantalum: 3.3 μ F, 20%, 35 V	1	196D335X0035JE3	56289	
C2	Capacitor, Ceramic, Disc: 0.1 μ F, 20%, 50 V	1	34475-1	14632	
C3	Capacitor, Electrolytic, Tantalum: 47 μ F, 20%, 20 V	3	196D476X0020PE4	56289	
C4	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	1	34452-1	14632	
C5	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	9	34453-1	14632	
C6	Capacitor, Ceramic, Tubular: 33 pF, 5%, 500 V	1	308-000C0G0-330J	72982	
C7	Capacitor, Ceramic, Tubular: 47 pF, 5%, 500 V	1	308-000C0G0-470J	72982	
C8	Capacitor, Variable, Ceramic: 2-8 pF, 350 V	1	538-006A2-8	72982	
C9	Same as C5				
C10	Capacitor, Mica, Dipped: 10 pF, ± 0.5 pF, 500 V	2	CM04CD100D03	81349	72136
C11	Capacitor, Ceramic, Disc: 1000 pF, GMV, 500 V	2	B-GP1000PFP	91418	
C12	Same as C11				
C13	Same as C5				
C14	Same as C10				
C15	Not Used				
C16	Same as C3				
C17 Thru C21	Same as C5				
C22	Same as C3				
C23	Same as C5				
CR1	Diode, Varicap:	1	BB109-YELLOW	25088	
L1	Coil, Fixed: 27 μ H	1	1537-48	99800	
L2	Coil, Fixed, Molded: 330 μ H	1	2500-04	99800	
L3	Coil, Fixed: 0.82 μ H	1	1537-10	99800	
MP1	Transipad	4	7717-89DAP	13103	
MP2	Shield, BFO	1	34982-1	14632	
Q1	Transistor	1	2N2857/JAN	81350	
Q2	Transistor	1	841001-2	14632	
Q3	Transistor	1	2N706	80131	04713
Q4	Transistor	1	3N128	80131	02735
R1	Resistor, Variable, Film: 500 Ω , 10%, 1/2 W	1	62PAR500	73138	
R2	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	15	CF1/4-1.0K/J	09021	
R3	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	3	CF1/4-10K/J	09021	
R4	Same as R2				
R5	Resistor, Fixed, Composition: 10 Ω , 5%, 1/4 W	3	CF1/4-10 OHMS/J	09021	
R6	Same as R2				
R7	Same as R3				
R8	Resistor, Variable, Film: 4.22 k Ω , 1%, 1/10 W	1	RN55C4221F	81349	75042
R9	Resistor, Variable, Film: 17.8 k Ω , 1%, 1/10 W	2	RN55C1782F	81349	75042
R10	Same as R9				

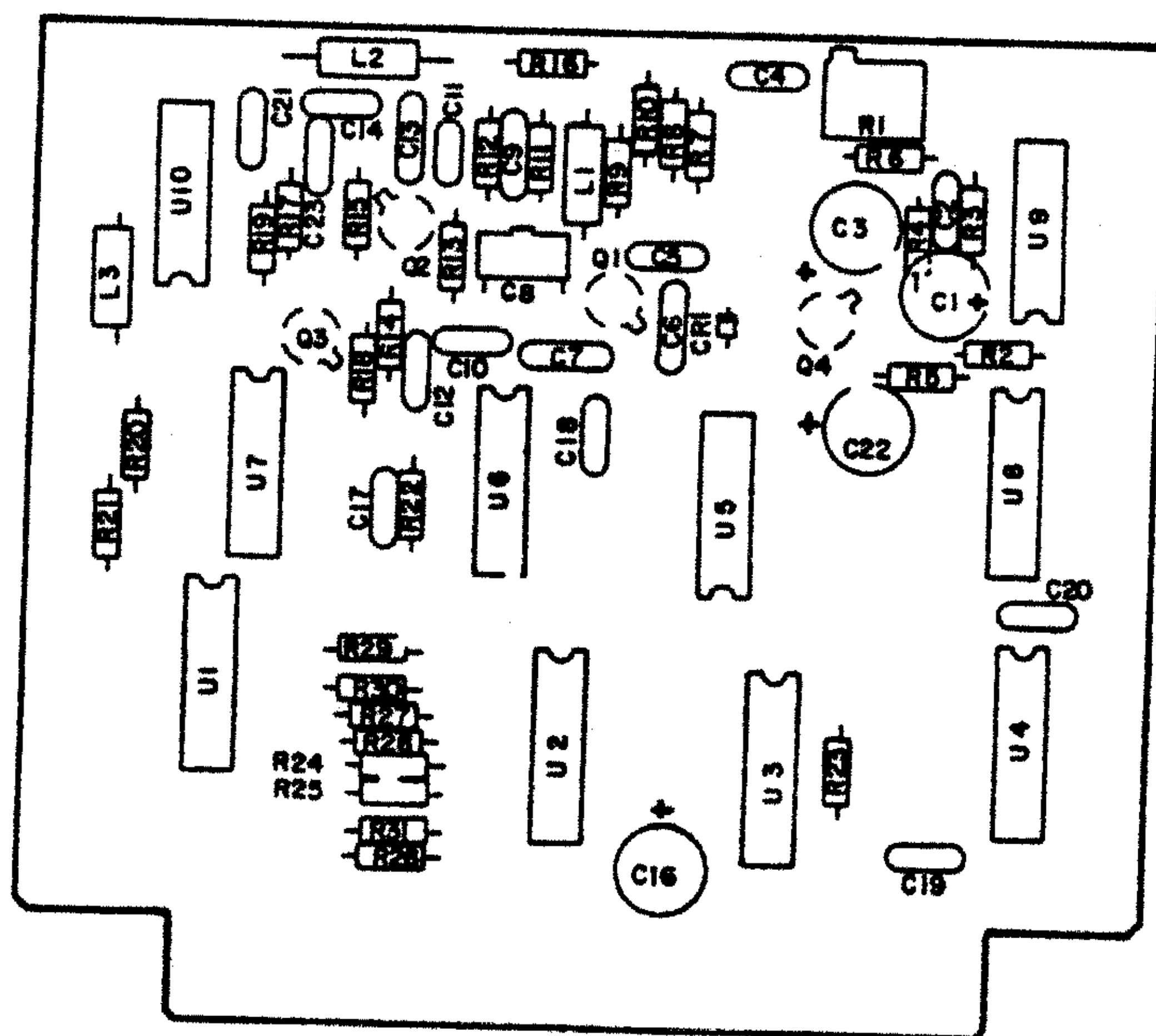
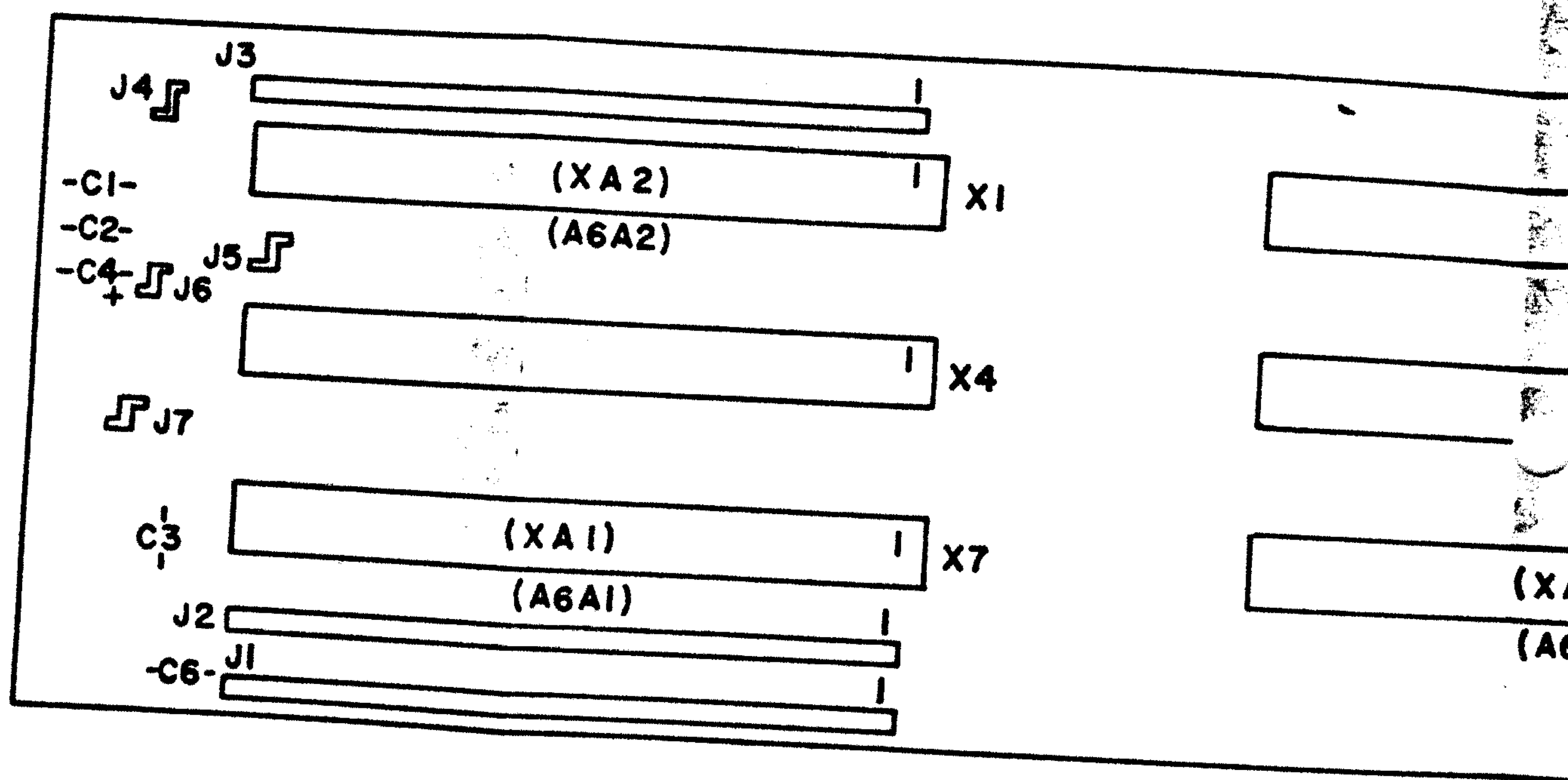


Figure 5-32. Type 791576-1 BFO Synthesizer (A5A3),
Location of Components

REF DESIG PREFIX A5A3

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
R11	Same as R5				
R12	Resistor, Fixed, Composition: 560 Ω , 5%, 1/4 W	1	CF1/4-560 OHMS/J	09021	
R13	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	1	CF1/4-100K/J	09021	
R14	Resistor, Fixed, Composition: 1.0 M Ω , 5%, 1/4 W	1	CF1/4-1.0M/J	09021	
R15	Resistor, Fixed, Composition: 820 k Ω , 5%, 1/4 W	1	CF1/4-820K/J	09021	
R16	Same as R5				
R17	Same as R3				
R18	Same as R2				
R19	Same as R2				
R20	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	1	CF1/4-220 OHMS/J	09021	
R21	Resistor, Fixed, Composition: 62 Ω , 5%, 1/4 W	1	CF1/4-62 OHMS/J	09021	
R22 Thru R31	Same as R2				
U1	Integrated Circuit	4	SN74LS190N	01295	
U2 Thru U4	Same as U1				
U5	Integrated Circuit	2	SN7425N	01295	
U6	Integrated Circuit	1	SN74LS11N	01295	
U7	Same as U5				
U8	Integrated Circuit	1	867474	14632	
U9	Integrated Circuit	1	MC4044P	04713	
U10	Integrated Circuit	1	SN74LS90N	01295	

FIGURE 5-33



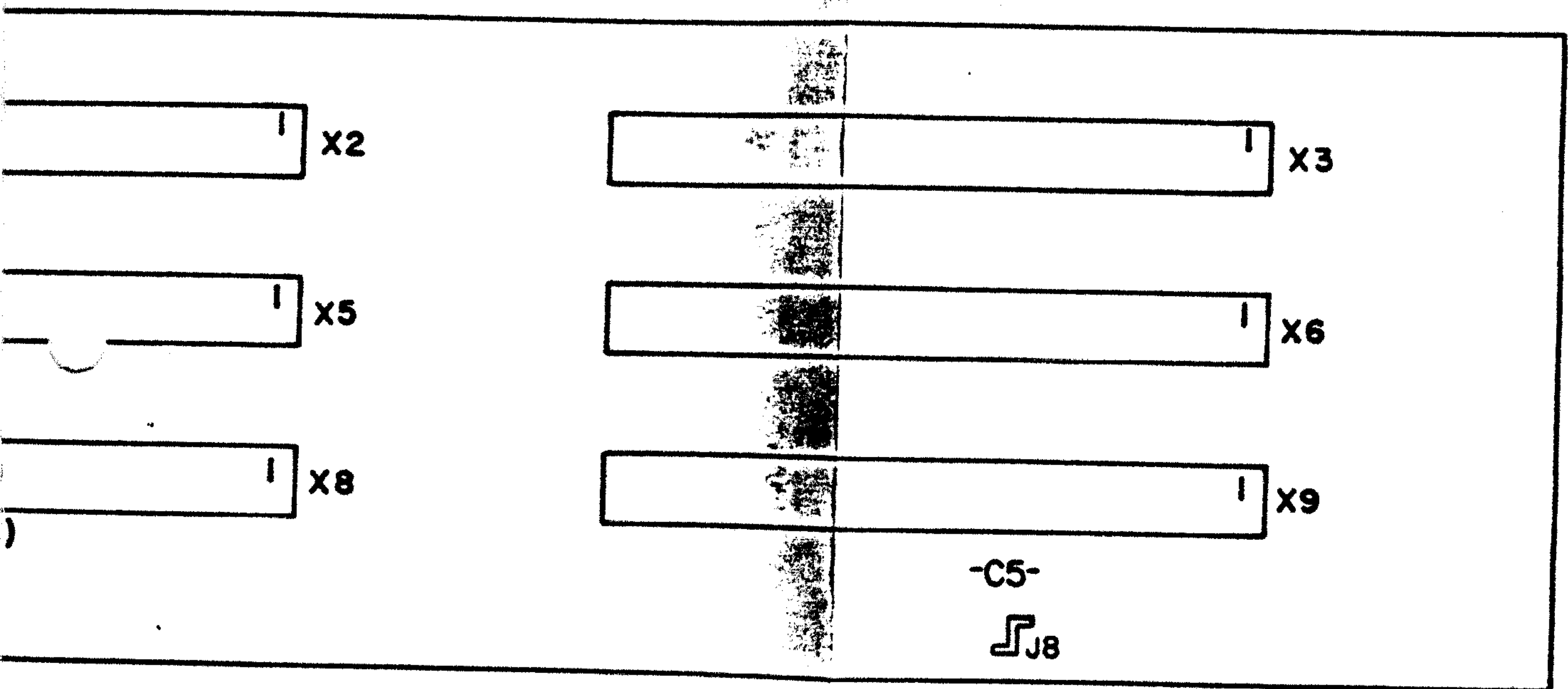


Figure 5-33. Type 791580 I/O Motherboard (A6),
Location of Components

5.6.6 TYPE 791580 I/O MOTHERBOARD

REF DESIG PREFIX A6

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1*	Manual Tuning Up/Down Counter (Not optional on WJ-8718A)	1	791575-3	14632	
A2	Front Panel Interconnect	1	791828	14632	
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	5	34452-1	14632	
C2	Same as C1				
C3	Same as C1				
C4	Capacitor, Electrolytic, Tantalum: 100 μ F, 20%, 20 V	1	196D107X0020TE4	56289	
C5	Same as C1				
C6	Same as C1				
J1	Post, Feedthru	3	PE7-14045	00779	
J2	Same as J1				
J3	Same as J1				
J4	Faston Tab	5	62073-1	00779	
J5 Thru J8	Same as J4				
X1	Connector, P.C. Board	9	MK30C-14-195-4381	81312	
X2 Thru X9	Same as X1				
*	Part of MCM-2 Option.				

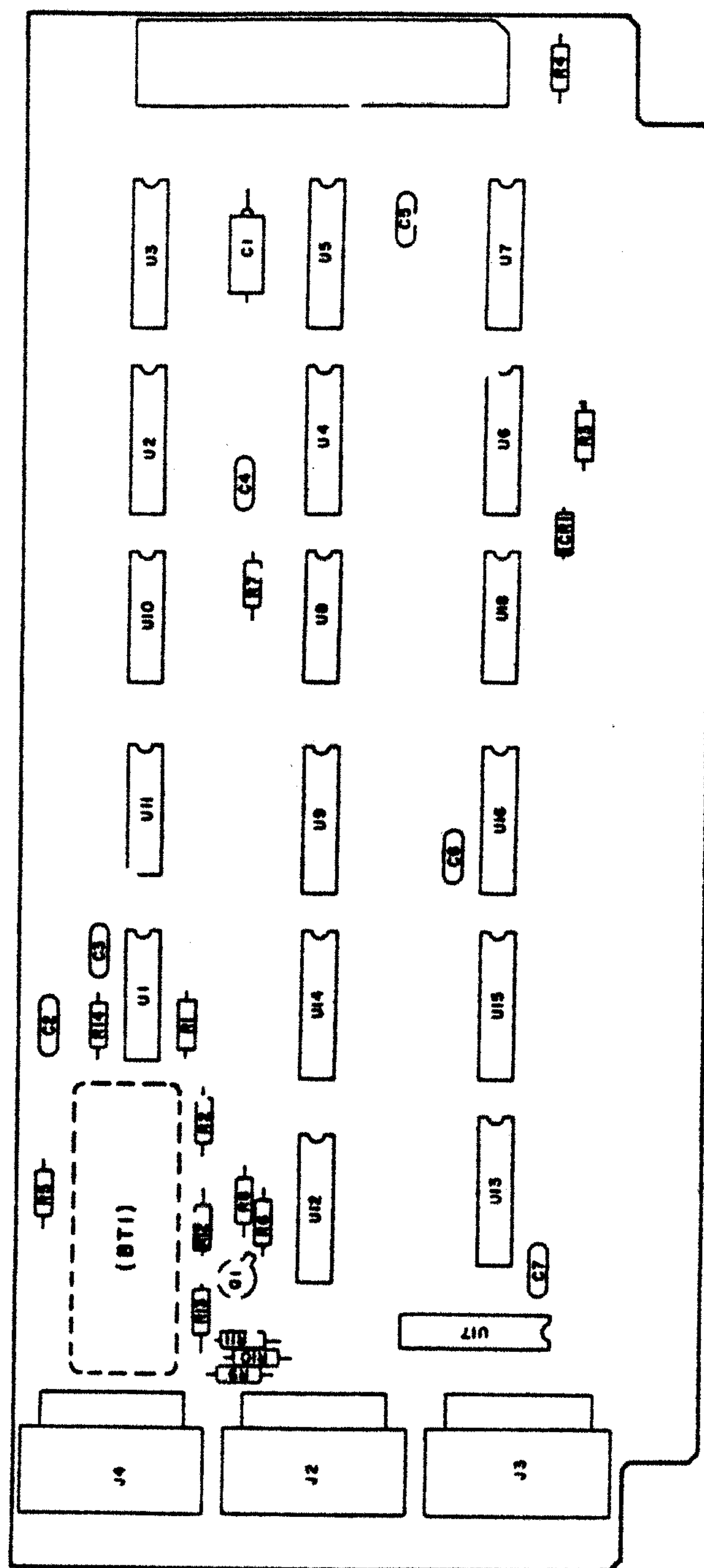


Figure 5-34. Type 791575-3 Manual Tuning Up/Down Counter (A6A1), Location of Components

5.6.6.1 Type 791575-3* Manual Tuning Up/Down Counter

REF DESIG PEFIX A6A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Electrolytic, Tantalum: 22 μ F, 10%, 15 V	1	CS13BD226K	81349	56289
C2	Capacitor, Ceramic, Disc: 470 pF, 20%, 1000 V	1	BHD470-20PCT	91418	
C3	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	5	34453-1	14632	
C4 Thru C7	Same as C3				
CR1	Diode				
J1	Not Used	1	5082-2900	28480	
J2	Connector, Receptacle				
J3	Same as J2	3	87567-4	00779	
J4	Same as J2				
MP1	Socket, Battery				
MP1	Not Used	4	09-9017-1-06	18310	
MP2	Transipad				
Q1	Transistor	1	7717-44DAP	13103	
R1	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	1	2N2222A	80131	04713
R2	Same as R1	8	CF1/4-10K/J	09021	
R3	Resistor, Fixed, Composition: 4.7 Ω , 5%, 1/4 W				
R4 Thru R8	Same as R1	1	CF1/4-4.7 OHMS/J	09021	
R9	Resistor, Fixed, Composition: 820 Ω , 5%, 1/4 W	1	CF1/4-820 OHMS/J	09021	
R10	Same as R1				
R11	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	2	CF1/4-1.0K/J	09021	
R12	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	1	CF1/4-100 OHMS/J	09021	
R13	Same as R11				
R14	Resistor, Fixed, Composition: 470 k Ω , 5%, 1/4 W	1	CF1/4-470K/J	09021	
U1	Integrated Circuit	1	MM74C14N	27014	
U2	Integrated Circuit	6	MC14510BCP	04713	
U3 Thru U7	Same as U2				
U8	Integrated Circuit	3	MC14081BCP	04713	
U9	Integrated Circuit	1	MC14027BCP	04713	
U10	Integrated Circuit	1	MC14070BCP	04713	
U11	Same as U8				
U12	Integrated Circuit	4	MC14512CP	04713	
U13 Thru U15	Same as U12				
U16	Integrated Circuit	1	MC14520BCP	04713	
U17	Integrated Circuit	1	MC14050BCP	04713	
U18	Same as U8				

*Part of MCM-2 Option.

5.6.6.2 Type 791828-1 Front Panel Interconnect

REF DESIG PREFIX A6A2

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.47 μ F, 20%, 50 V	1	34452-1	14632	
CR1	Diode	10	1N995	80131	04713
CR2 Thru CR10	Same as CR1				
J1	Connector, Receptacle	1	1-87567-6	00779	
MP1	Transipad	1	7717-22DAP	13103	
Q1	Transistor	1	2N4037	80131	02735
R1	Resistor, Fixed, Composition: 620 Ω , 5%, 1/4 W	1	CF1/4-620 OHMS/J	09021	
R2	Resistor, Fixed, Composition: 100 Ω , 5%, 1/4 W	1	CF1/4-100 OHMS/J	09021	
R3	Resistor, Fixed, Composition: 2.7 k Ω , 5%, 1/4 W	1	CF1/4-2.7K/J	09021	
R4	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	1	CF1/4-100K/J	09021	
R5	Resistor, Fixed, Composition: 22 Ω , 5%, 1/2 W	1	RCR20G220JS	81349	01121
R6	Resistor, Fixed, Composition: 10 k Ω , 5%, 1/4 W	4	CF1/4-10K/J	09021	
R7 Thru R9	Same as R6				
U1	Integrated Circuit	2	MC14053BCP		
U2	Same as U1				

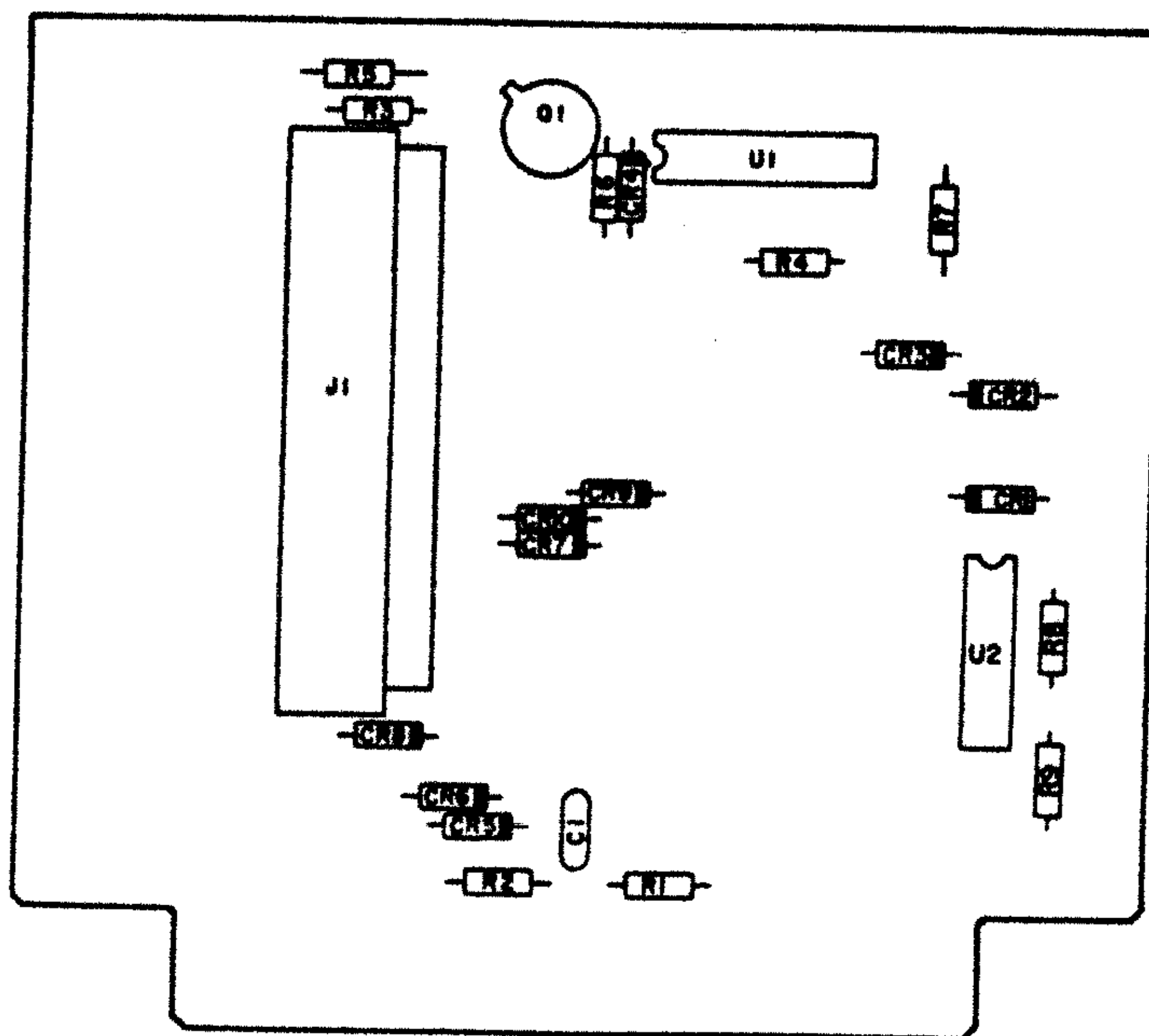


Figure 5-35. Type 791828-1 Front Panel Interconnect (A6A2), Location of Components

5.6.7 TYPE 791874-1 MANUAL TUNING MODULE*

REF DESIG PREFIX A7

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	Tuning Resolution	1	791589	14632	
MP1	Knob Assembly	1	280064-1	14632	
MP2	Button: Black Shell with Green Indicator	5	FA101-BLK W/GRN	31918	
U1	Encoder Assembly	1	34836-1	14632	
*	Part of MCM-2 Option.				

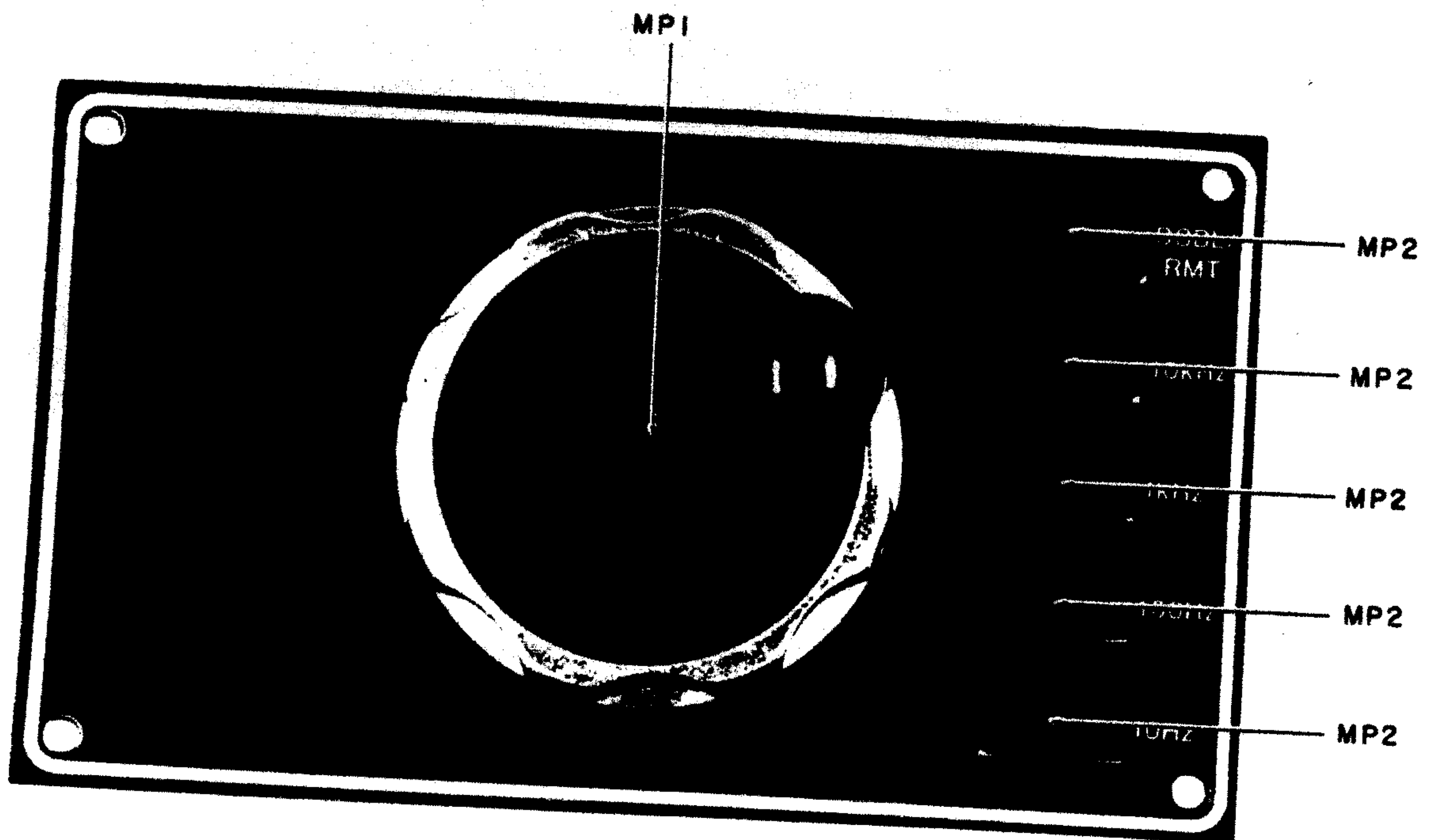


Figure 5-36. Type 791874-1 Manual Tuning Module (A7),
Location of Components

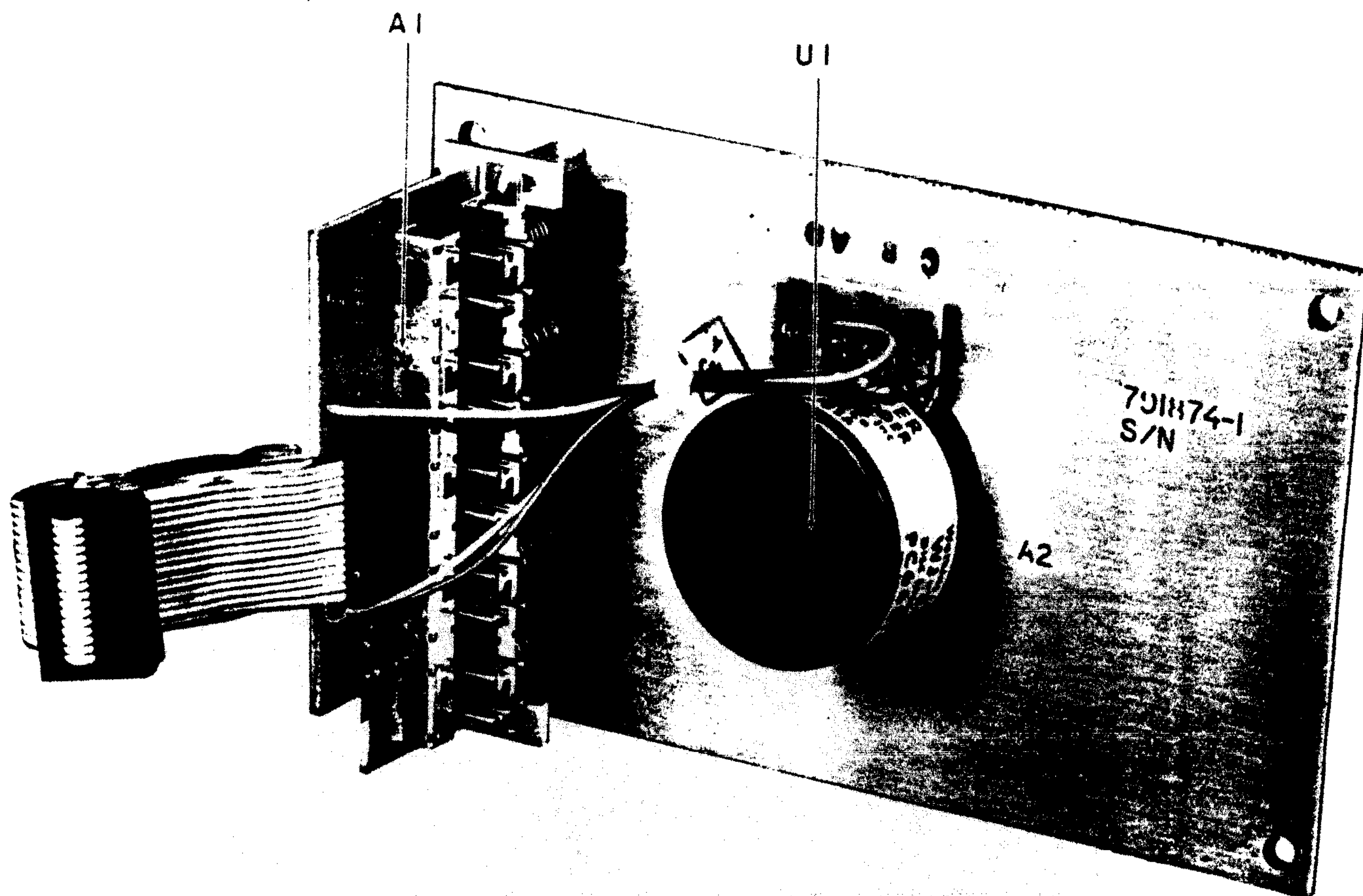


Figure 5-37. Type 791874-1 Manual Tuning Module (A7), Rear View,
Location of Components

5.6.7.1 Type 791589 Tuning Resolution

REF DESIG PREFIX A7A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
S1	Switch, Pushbutton	1	18488	14632	
--	Cable Assembly	1	380140-1	14632	

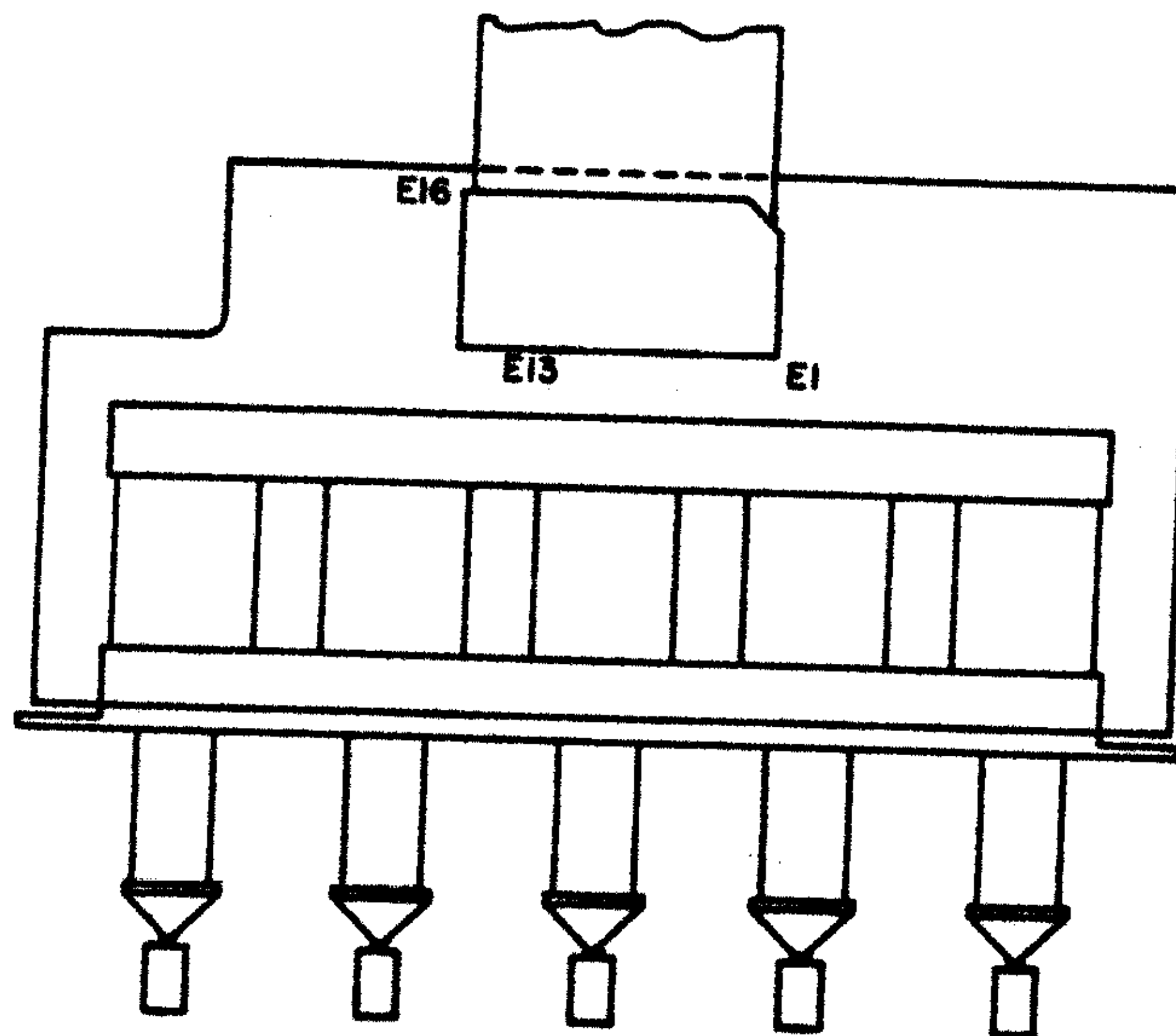


Figure 5-38. Type 791589 Tuning Resolution (A7A1),
Location of Components

5.6.9 TYPE 791827 BFO SWITCH

REF DESIG PREFIX A9

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
--	Cable Assembly	1	34524-1	14632	
P1	Part of Cable Assembly	--			
P2	Plug Assembly	1	34477-19	14632	
S1	Switch, Thumbwheel	1	339910490-00226	09353	

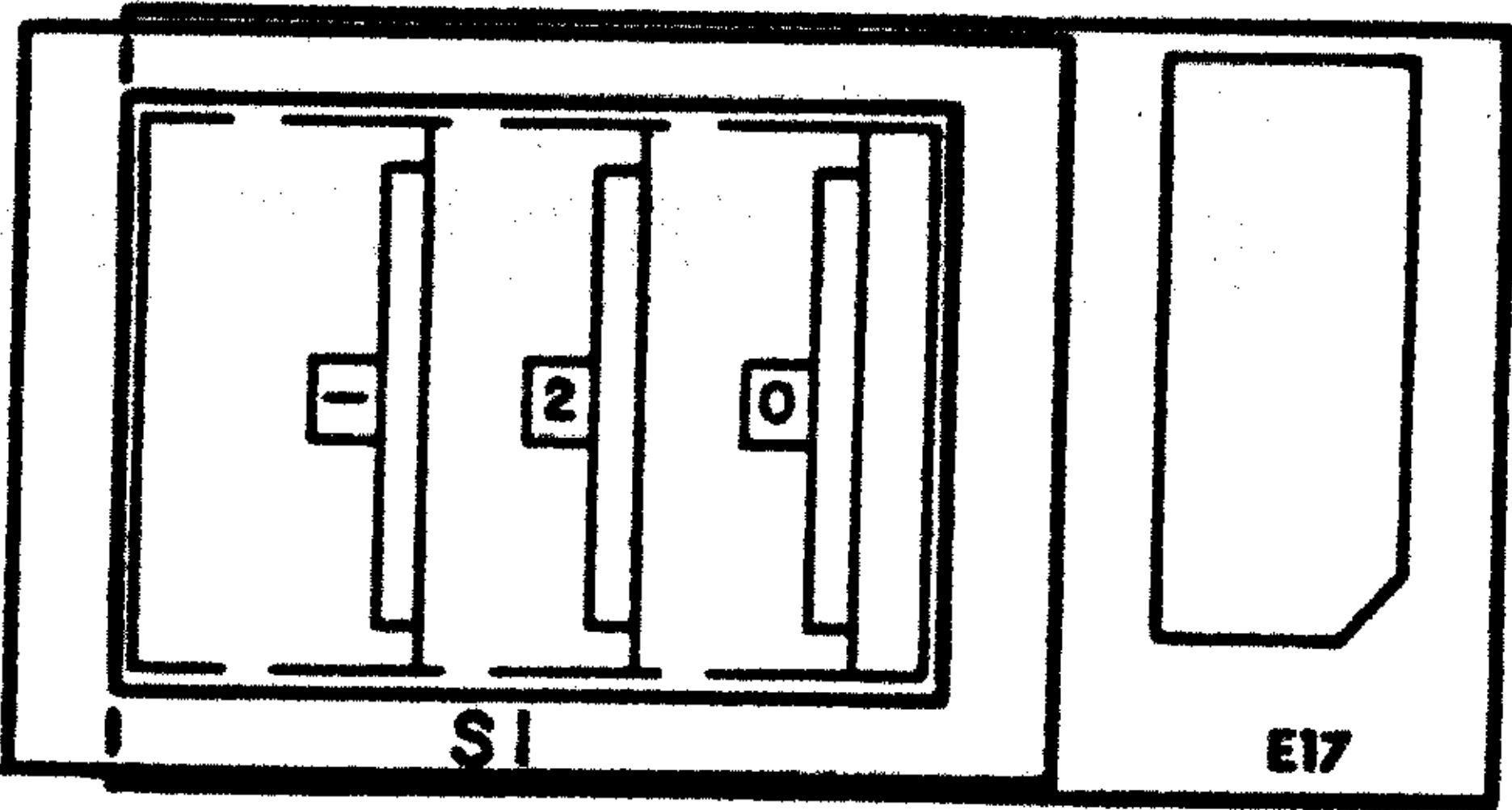


Figure 5-40. Type 791827 BFO Switch (A9),
Location of Components

FIGURE 5-41

WJ-8718 SERIES HF RECEIVER

5.6.10 TYPES 791684-2(1) and 796053(2)
FRONT PANEL CONTROL

REF DESIG PREFIX A10

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
A1	Upper Panel Control	1	791583	14632	
A2	Lower Panel Control (791684-2 only)	1	791826	14632	
A2	Lower Panel Control (796053 only)	1	796054	14632	
--	Cable Assembly (1) WJ-8718 (2) WJ-8718-9 & WJ-8718A	1	34528	14632	

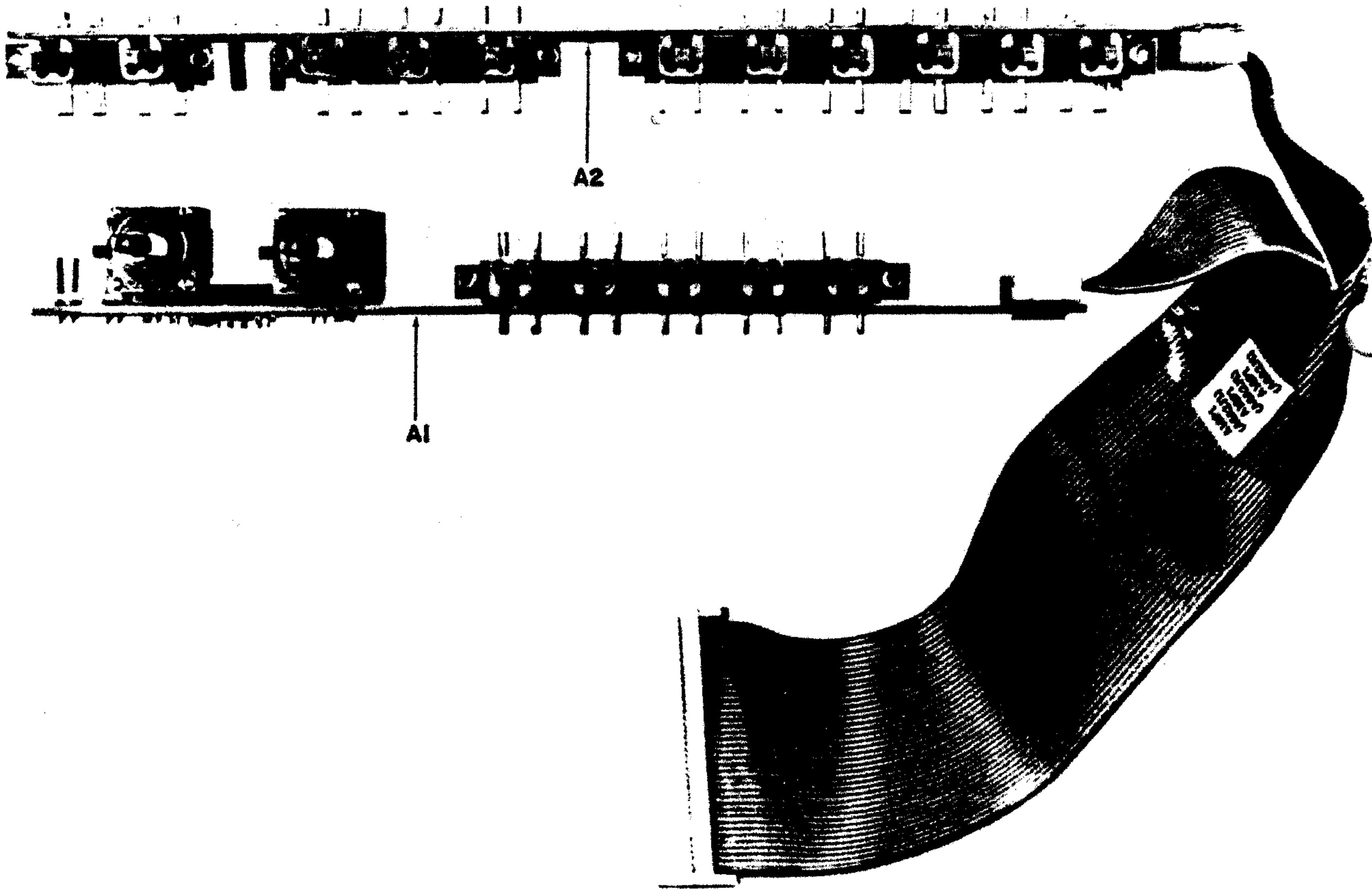


Figure 5-41. Type 791684-2 Front Panel Control (A10),
Location of Components (WJ-8718 only)

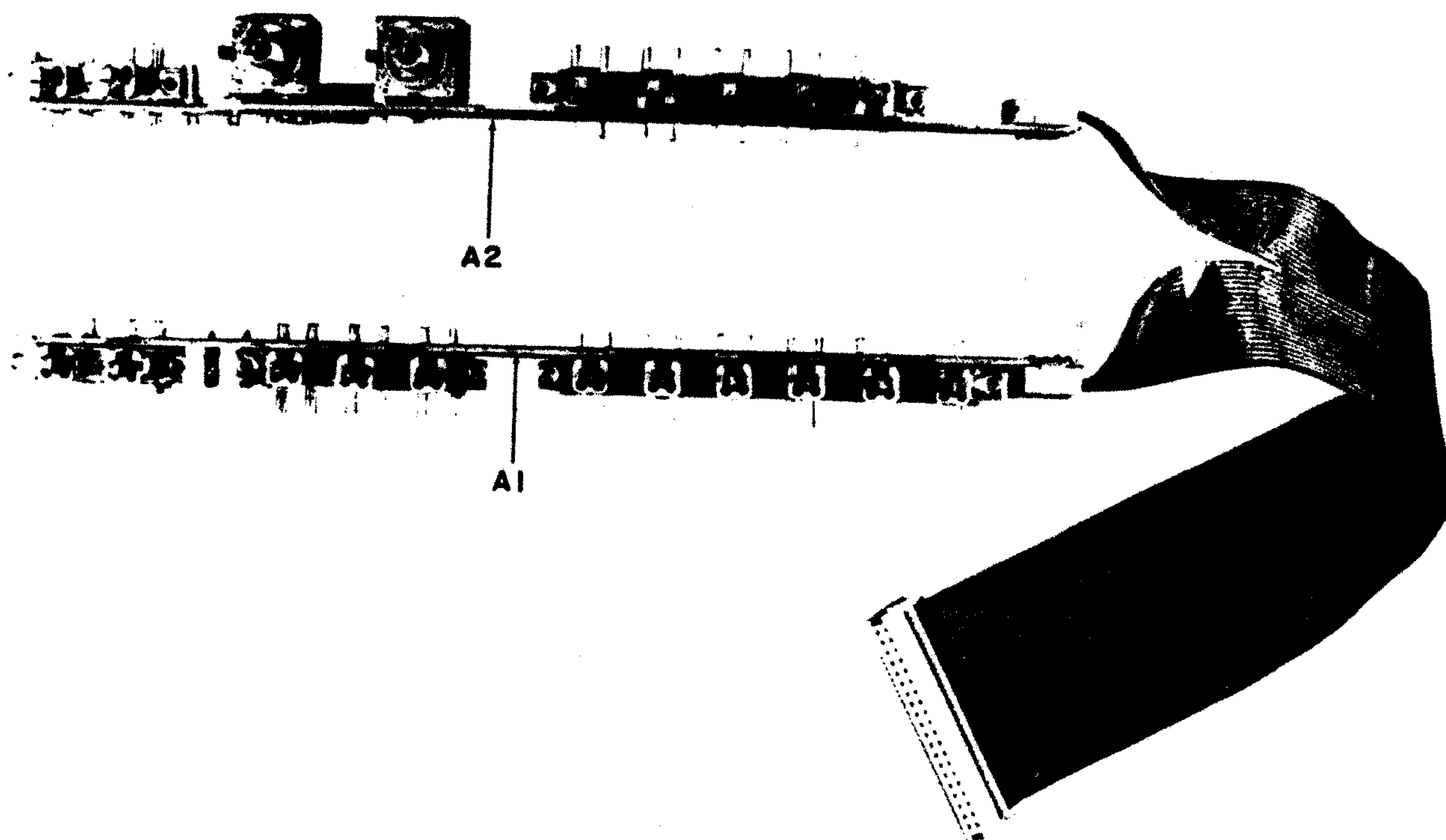


Figure 5-42. Type 796053 Front Panel Control (A10),
Location of Components (WJ-8718-9 & WJ-8718A)

FIGURE 5-43

WJ-8718 SERIES HF RECEIVER

5.6.10.1 Type 791583 Upper Panel Control

REF DESIG PREFIX A10A1

REF DESIG	DESCRIPTION	QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
J1	Faston Tab	1	62073-1	00779	
S1	Switch, Pushbutton	1	18485	14632	
S2	Switch, Pushbutton	1	18486	14632	
S3	Switch, Pushbutton	1	18487	14632	

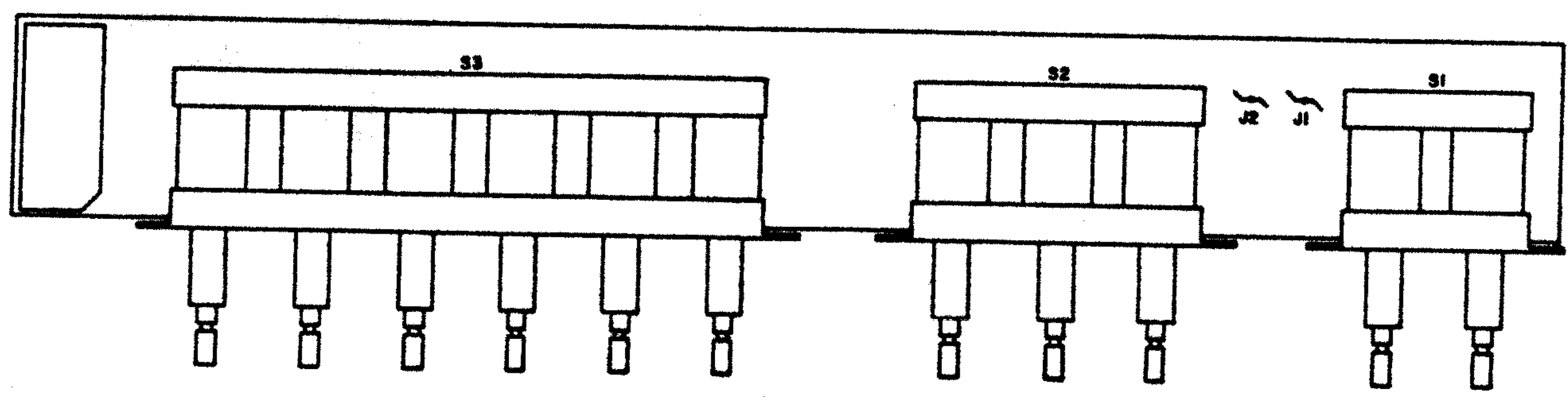


Figure 5-43. Type 791583 Upper Panel Control (A10A1),
Location of Components

REF DESIG	DESCRIPTION	REF DESIG PREFIX A10A2			
		QTY PER ASSY	MANUFACTURER'S PART NO.	MFR. CODE	RECM VENDOR
C1	Capacitor, Ceramic, Disc: 0.01 μ F, 20%, 50 V	1	34453-1	14632	
J1	Faston Tab	4	62073-1	00779	
J2 Thru J4	Same as J1				
R1	Resistor, Variable, Composition: 25 k Ω , 10%, 1 W	1	70M3N056L253U	01121	
R2	Resistor, Variable, Composition: 25 k Ω /25 k Ω , 10%, 1 W	1	70P3N056L253A	01121	
R3	Resistor, Fixed, Composition: 220 Ω , 5%, 1/4 W	2	CF1/4-220 OHMS/J	09021	
R4	Same as R3				
R5	Resistor, Fixed, Composition: 100 k Ω , 5%, 1/4 W	2	CF1/4-100K/J	09021	
R6	Resistor, Fixed, Composition: 1.0 k Ω , 5%, 1/4 W	2	CF1/4-1.0K/J	09021	
R7	Same as R5				
R8	Same as R6				
S1	Switch, Pushbutton	1	18488	14632	
S2	Switch, Pushbutton	1	18485	14632	
U1	Integrated Circuit (796054 only)	1	MC3403P	04713	
(1) WJ-8718					
(2) WJ-8718-9 and WJ-8718A					

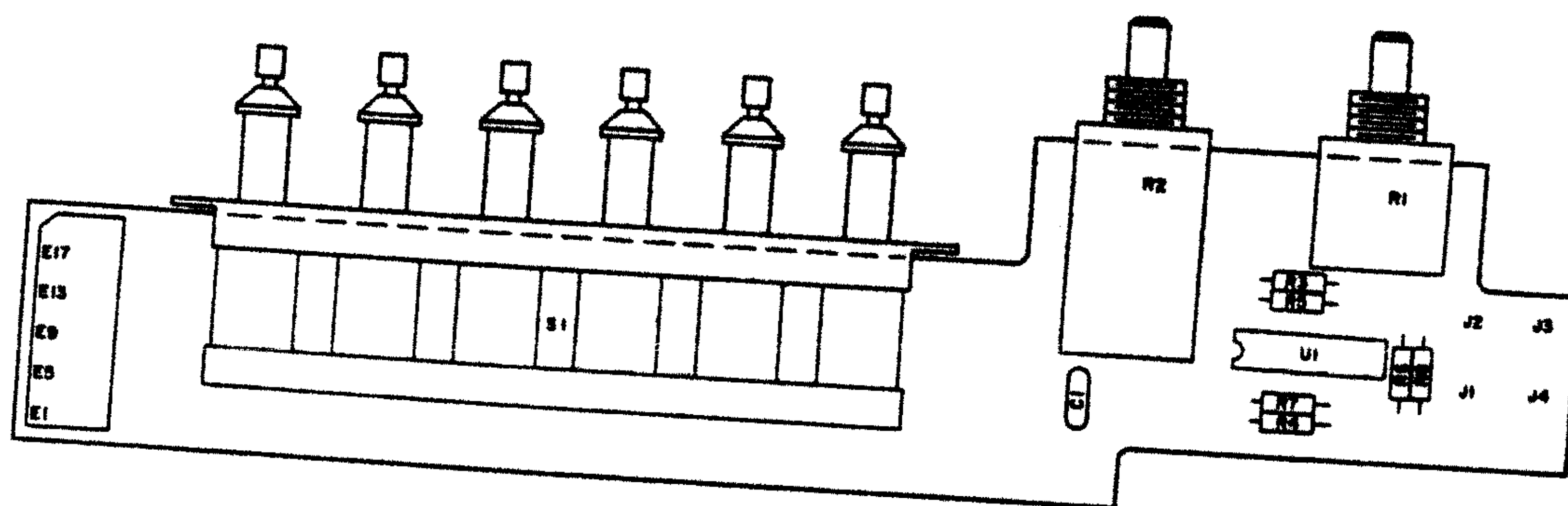


Figure 5-44. Type 791826 Lower Panel Control (A10A2),
Location of Components (WJ-8718 only)

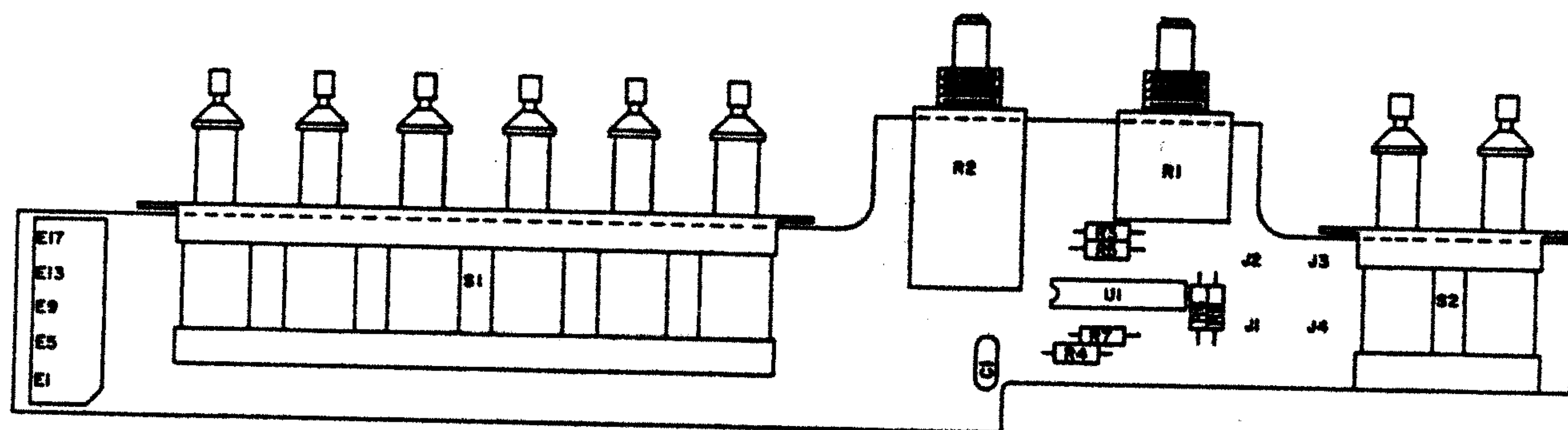


Figure 5-45. Type 796054 Lower Panel Control (A10A2),
Location of Components (WJ-8718-9 & WJ-8718A)