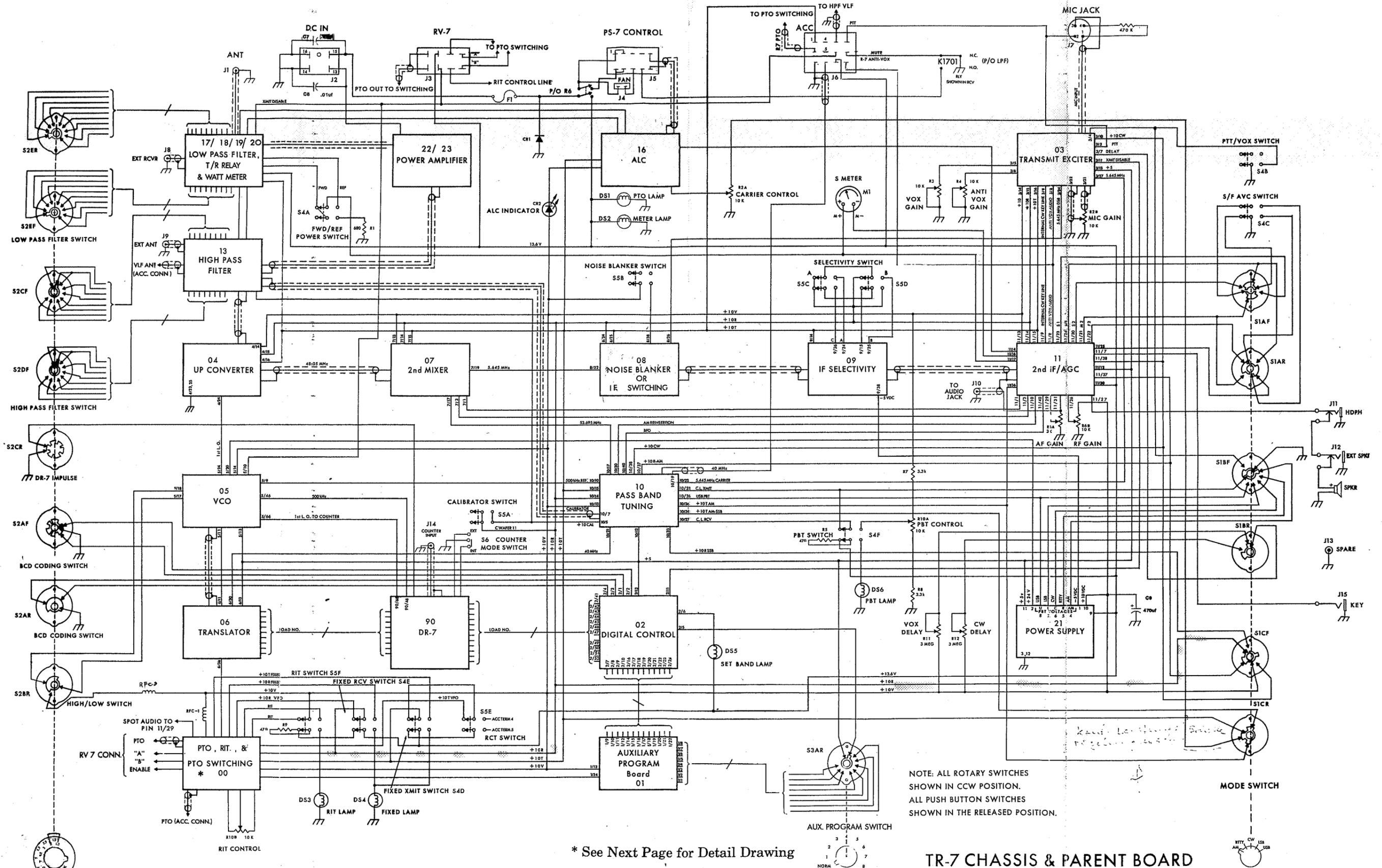


Fig. 1-1 TR-7 Block Diagram

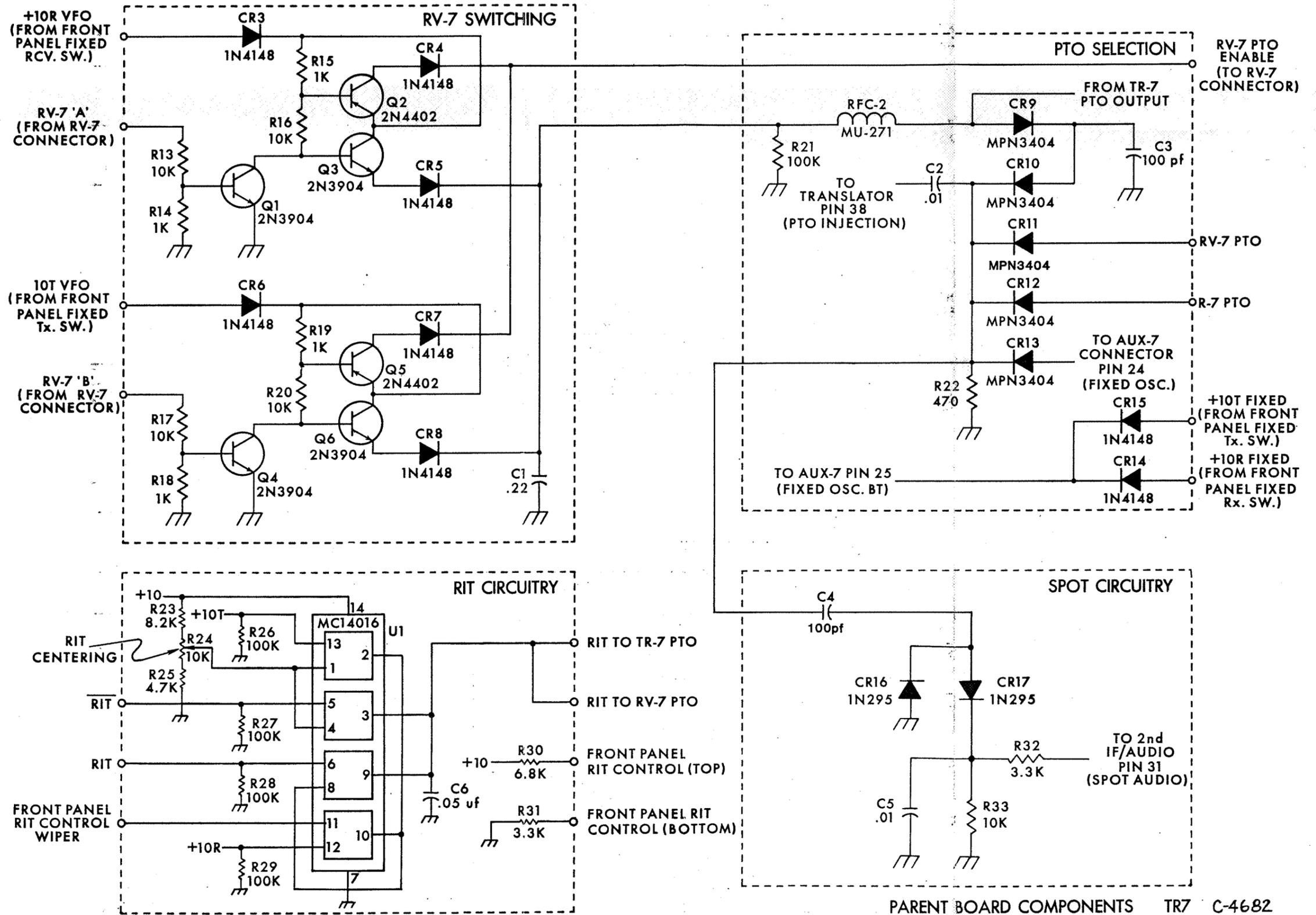


\* See Next Page for Detail Drawing

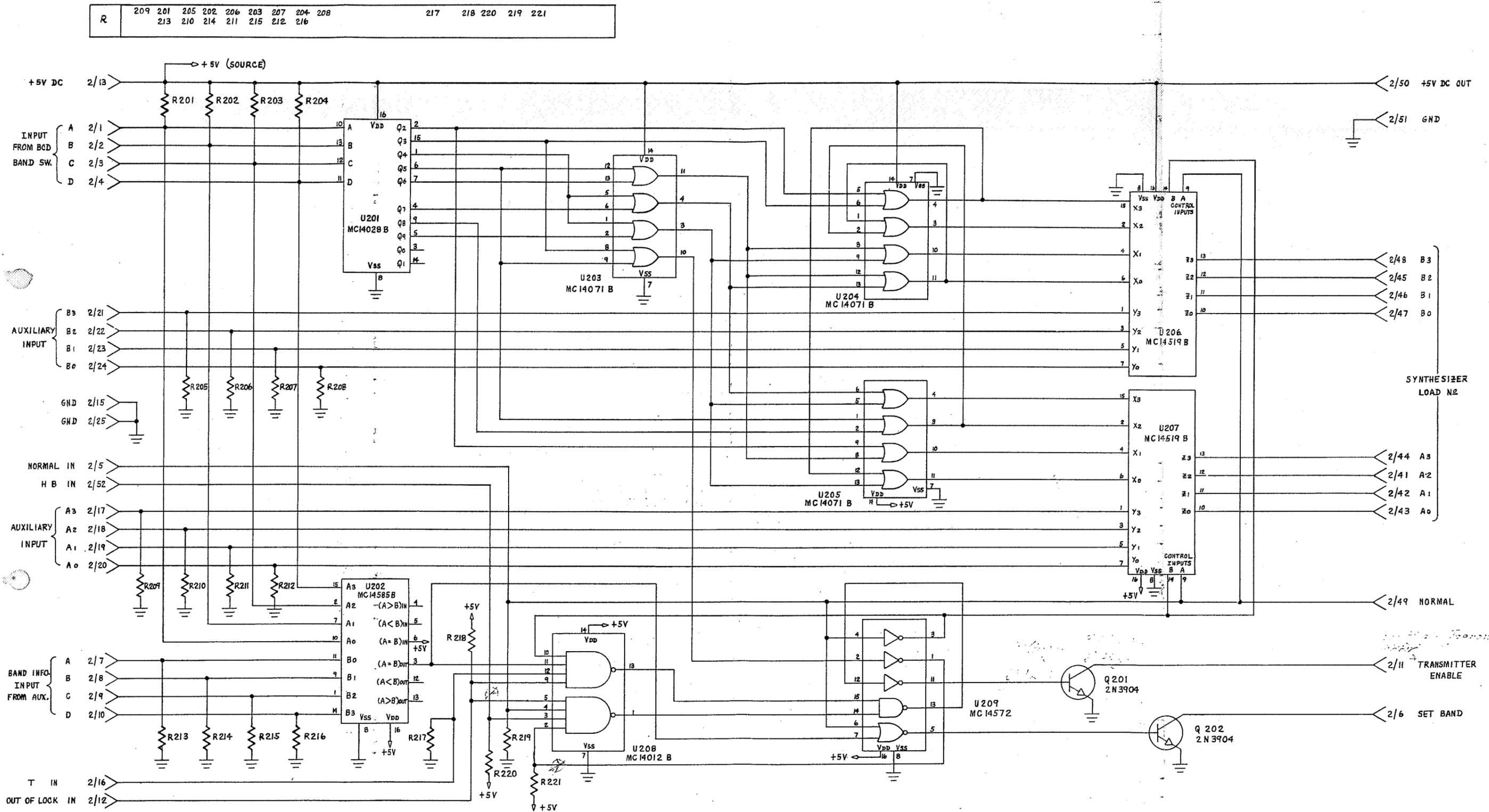
Fig. 2-2 Parent Board Schematic

### TR-7 CHASSIS & PARENT BOARD SCHEMATIC DIAGRAM

Falsch 8/25 = 8/37



PARENT BOARD COMPONENTS TR7 C-4682

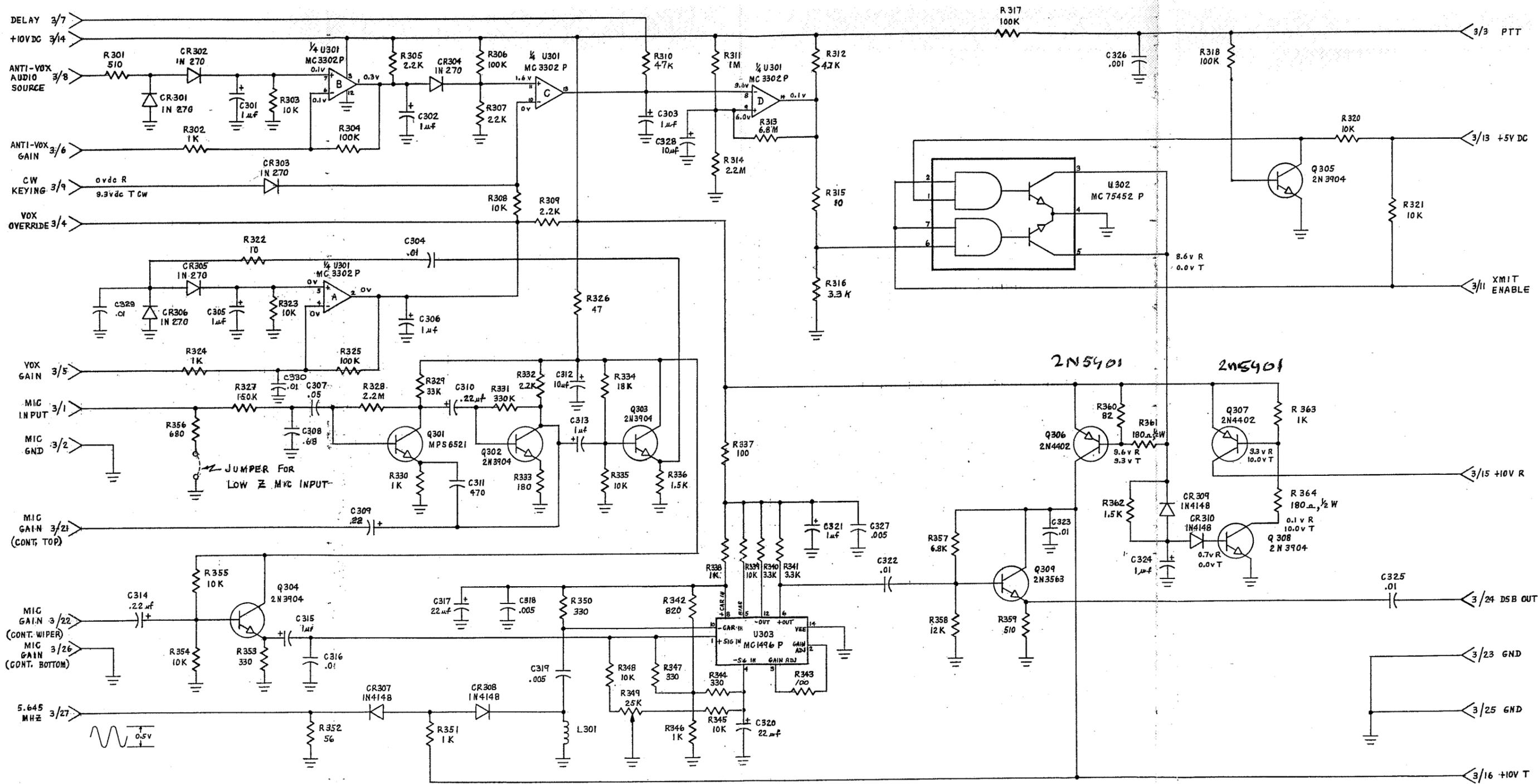


NOTE - ALL RESISTORS ARE 100K  $\Omega$ , 1/4 W, 10%

Fig. 2-4 Digital Control Board Schematic



C	34 328	301 305	315 330	307 308 316	309 306	302 304 306	310 311 317	318 307	312 313 319	303 305	328 309	320 326 330	321 334 349 310 342 346	320 311 338 339 313 341 343	321 312 344 340	327 322	323 357 358	326 360 361	304 318 363 364	325 320 321		
R	301	302 304 356	355 322 327	303 323 353	352 304 325	328 305	329 351	306 307 331	308 309	332 350	333	334 349 340	342 346 347	311 338 339 313 341 343	312 344 340	327 322	357 358	317 359	360 362	361	318 363 364	320 321



NOTE ALL VOLTAGES MEASURED IN RECEIVE, UNLESS NOTED OTHERWISE.

Fig. 2-6 Transmit Exciter Board Schematic

R	402	403	401	404	415	405	406	407	408	413	410	411	412	414	415	417	419	416	418	420	425	422	421		
C	401	427	407	402	403	409	405	404	411	412	413	414	415	417	419	416	418	420	425	422	421	426	423	424	
L				402		403			404						401									405	406

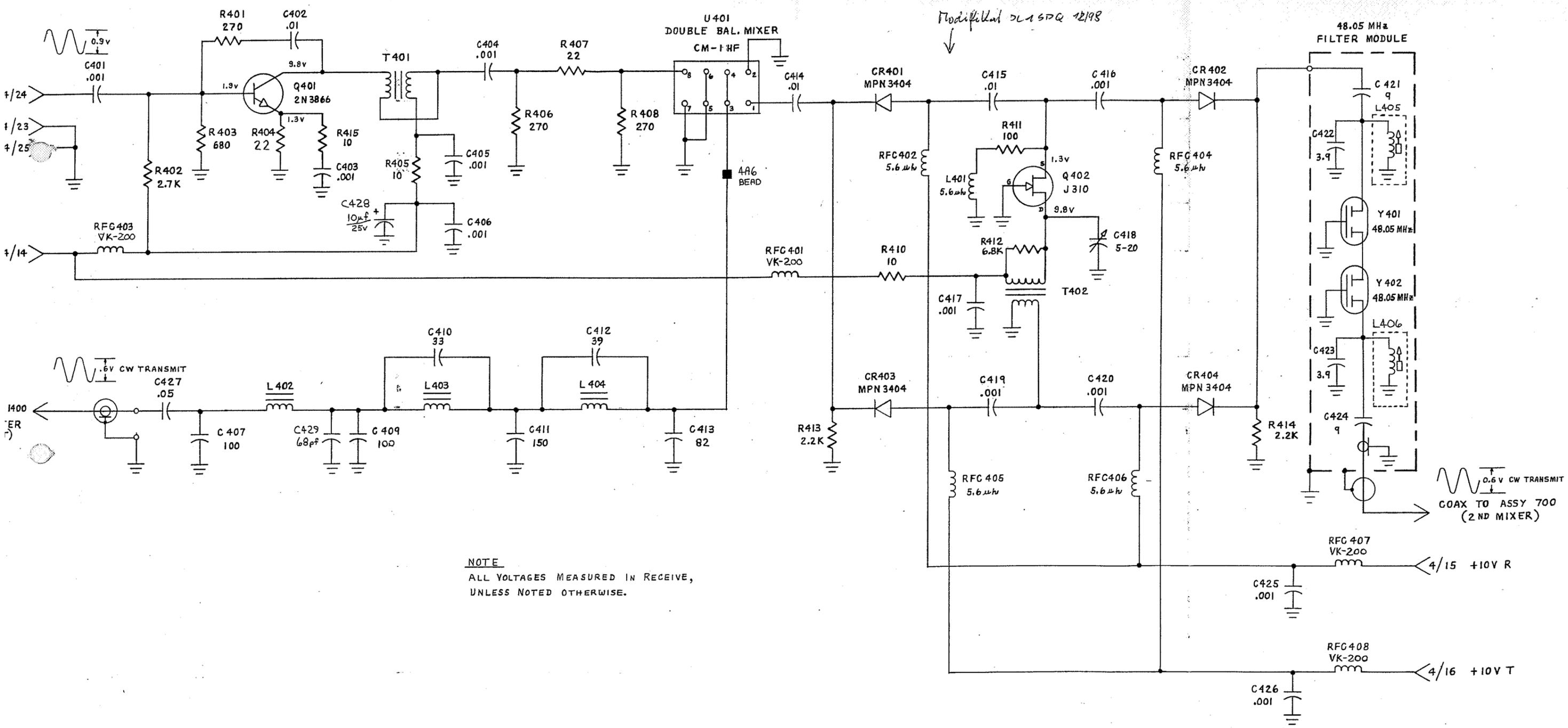


Fig. 2-8 Up-Converter Board Schematic



C	533	501 534 514	536 537	502 535 515	503 516 504 517	505 518	508 521 507 519 522	538	539	510 524 523 524	525	540	511 526 512 527	542 543	541	513 528	544 529	530	531 545 534 535	516 536 532	517	532	548 551 552	549	
R	501 507		502 508		519 520		503 509	521	523 522	524	525	526 527	528 510	504 529		505 530 511 512	506 538	539	531 535	516 536 532	517	533	514 537	518	
L												501 502													

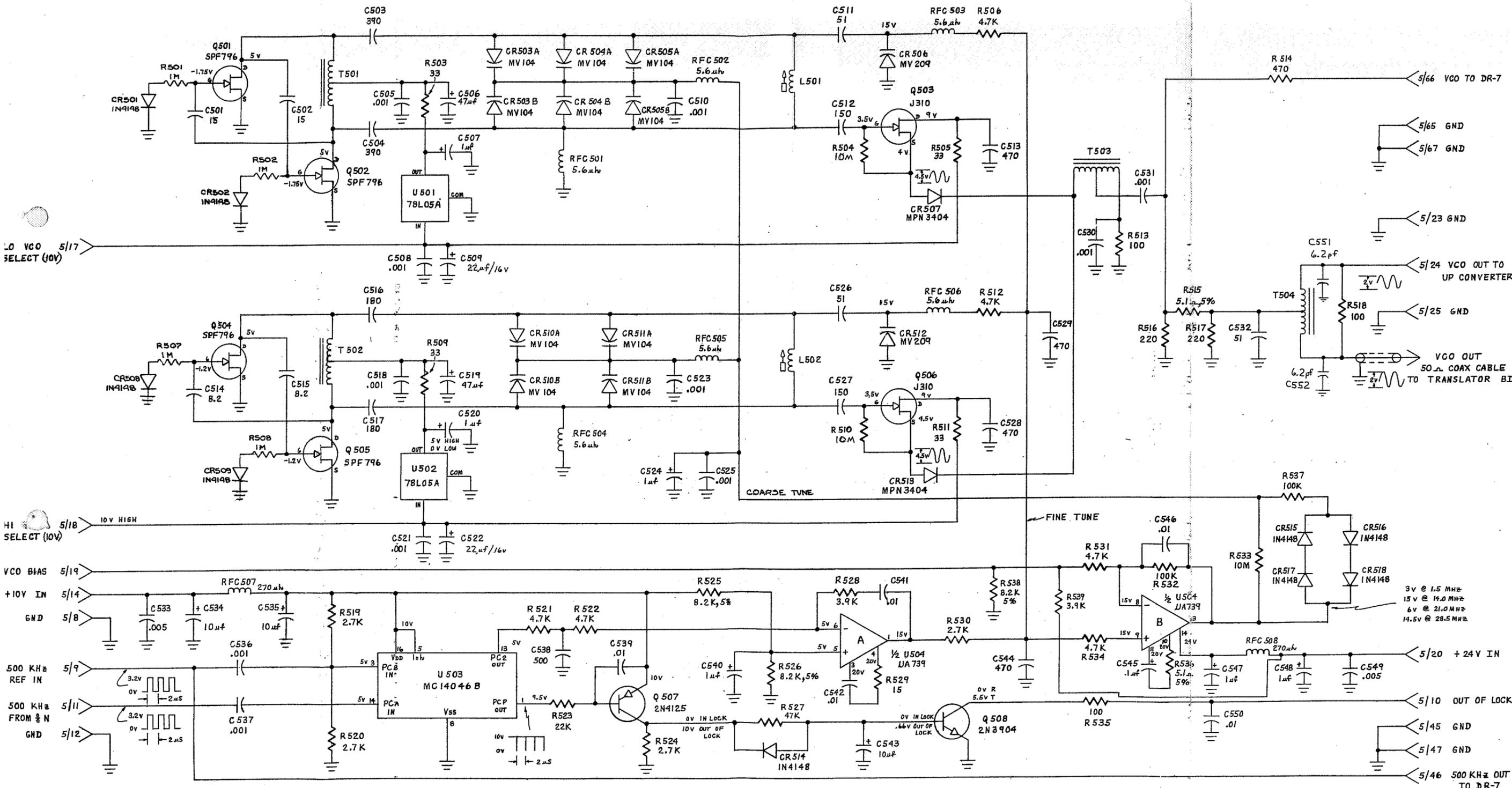


Fig. 2-10 VCO Board Schematic



C	601	602	603	604	623	636	614	626	627	606	610	608	609	630	610	611	620	612	631	633	632	635	634	
R	619	620	601	602	611	622	623	603	604	606	607	608	609	610	617	626	618	627	629					
L				604	609	605	610	607	611				602		603									

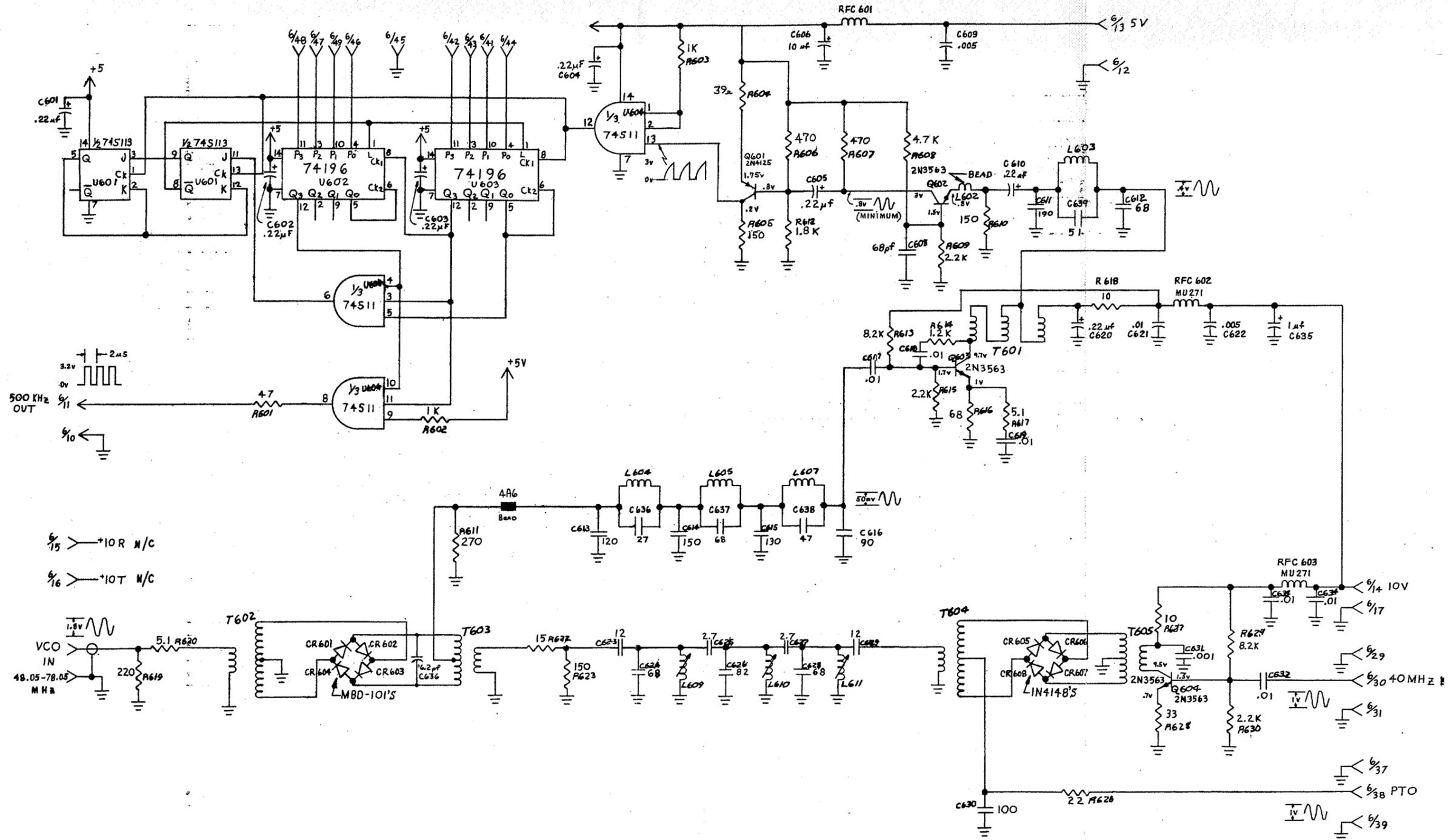


Fig. 2-12 Translator Board Schematic



C	713	701	710	711	730	702	709	731	715	732	717	734	716	713	706	720	707	721	723	722	728	724	736	725	735	726	727
R	720	707	721	701	709	710	711	722	704	713	712	725	715	716	717	726	729	718	728	730	732	733	734	735	719		
L				701	702												703										

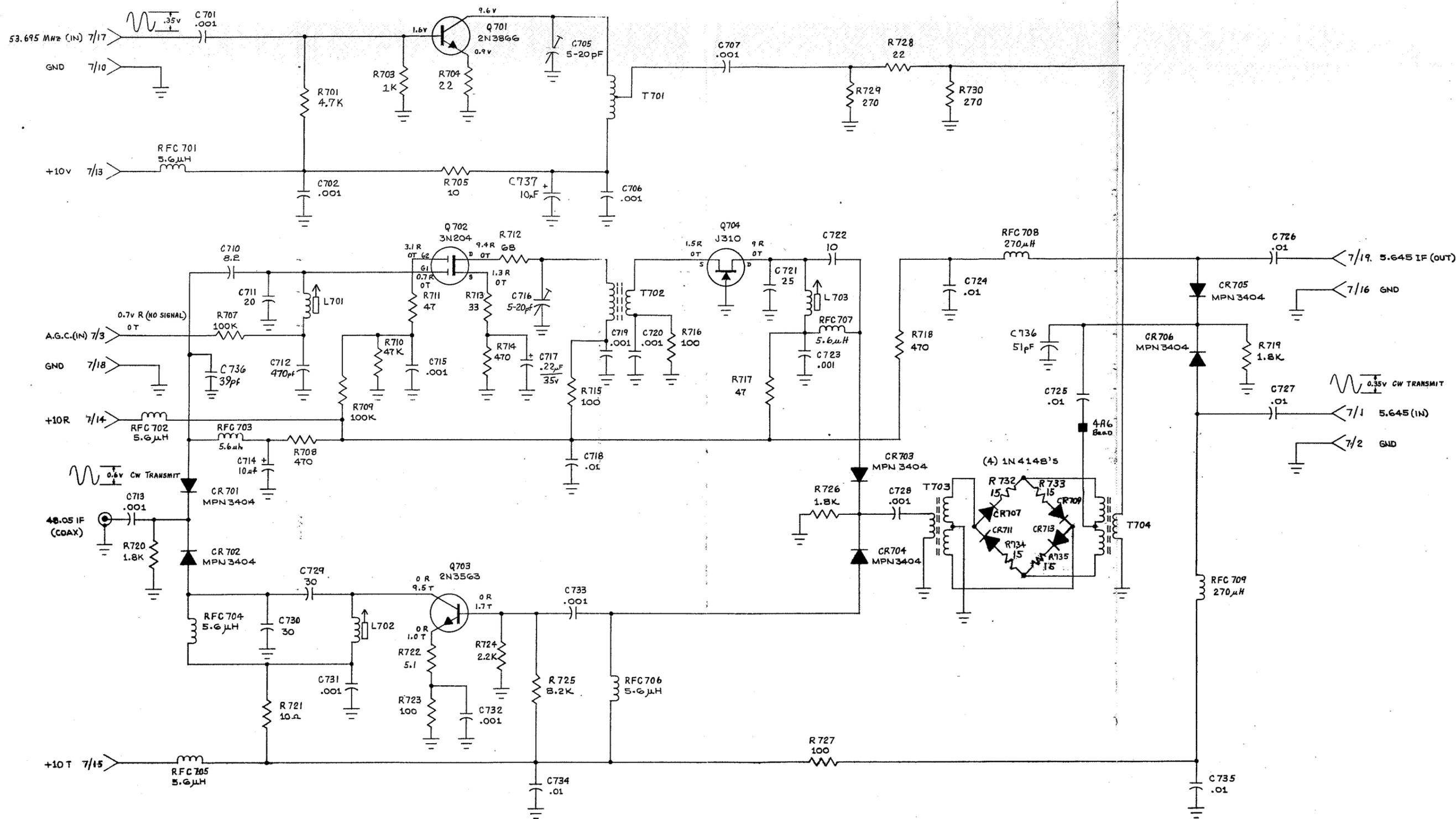


Fig. 2-14 2nd Mixer Board Schematic

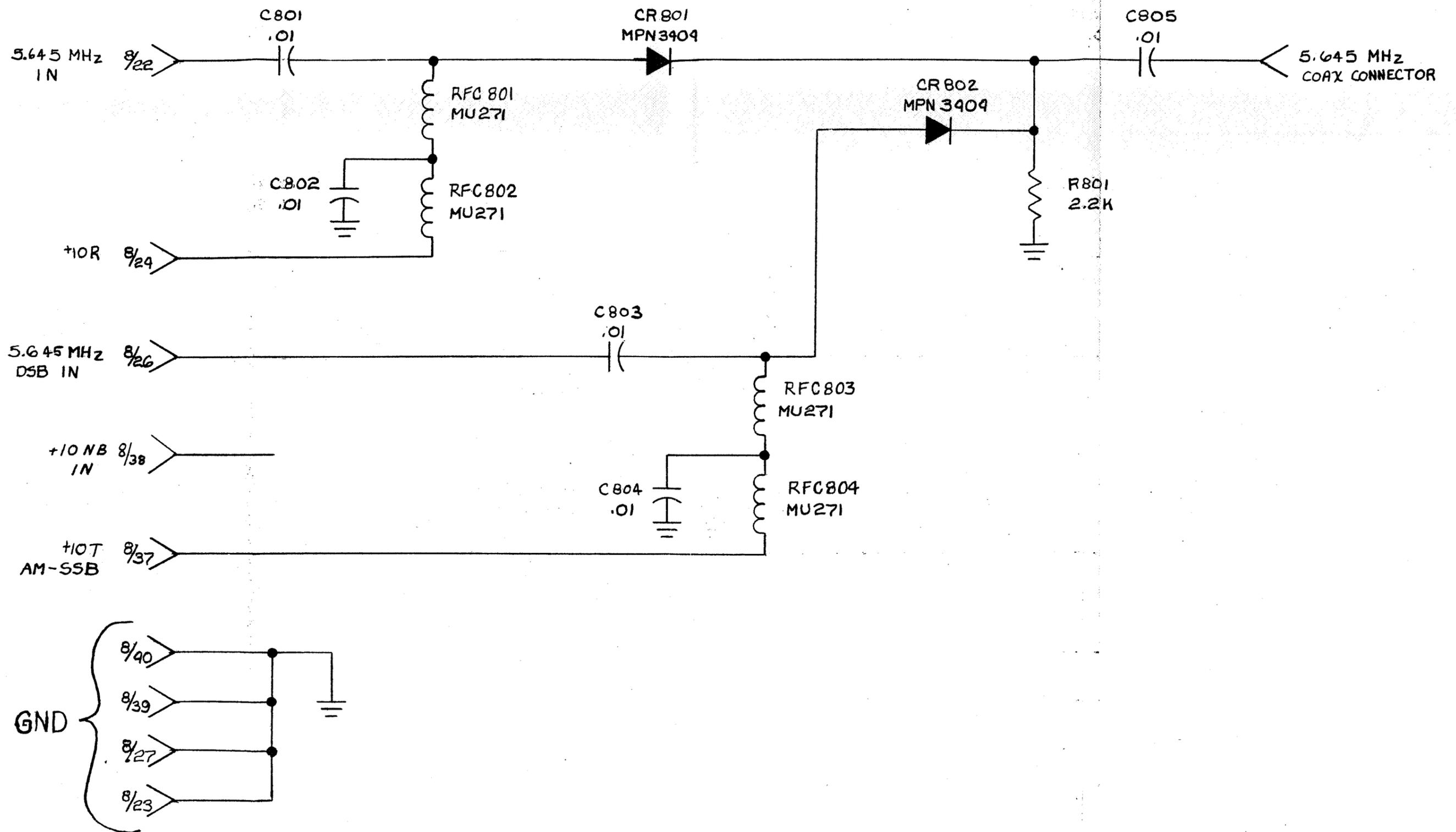
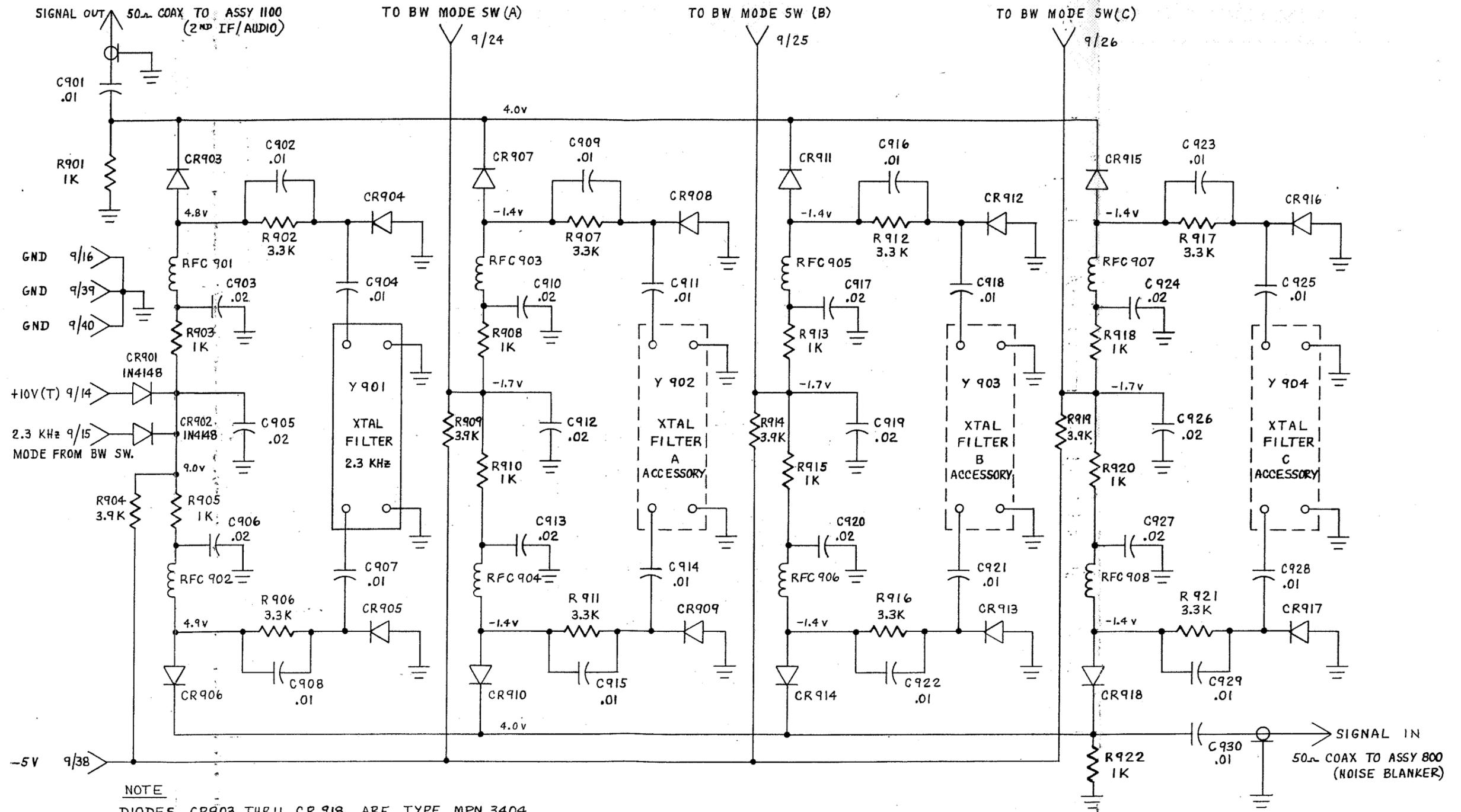


Fig. 2-16 IF Switching Board Schematic

C	901	903 906	905	902 908	904 907		910 913	912	909 915	911 914		917 920	919	916 922	918 921		924 927	926	923 929 930	925 928
R	901	904	903 905	902 906		909	908 910		907 911		914	913 915		912 916		919	918 920 922		917 921	
RFC			901 902				903 904					905 906					907 908			

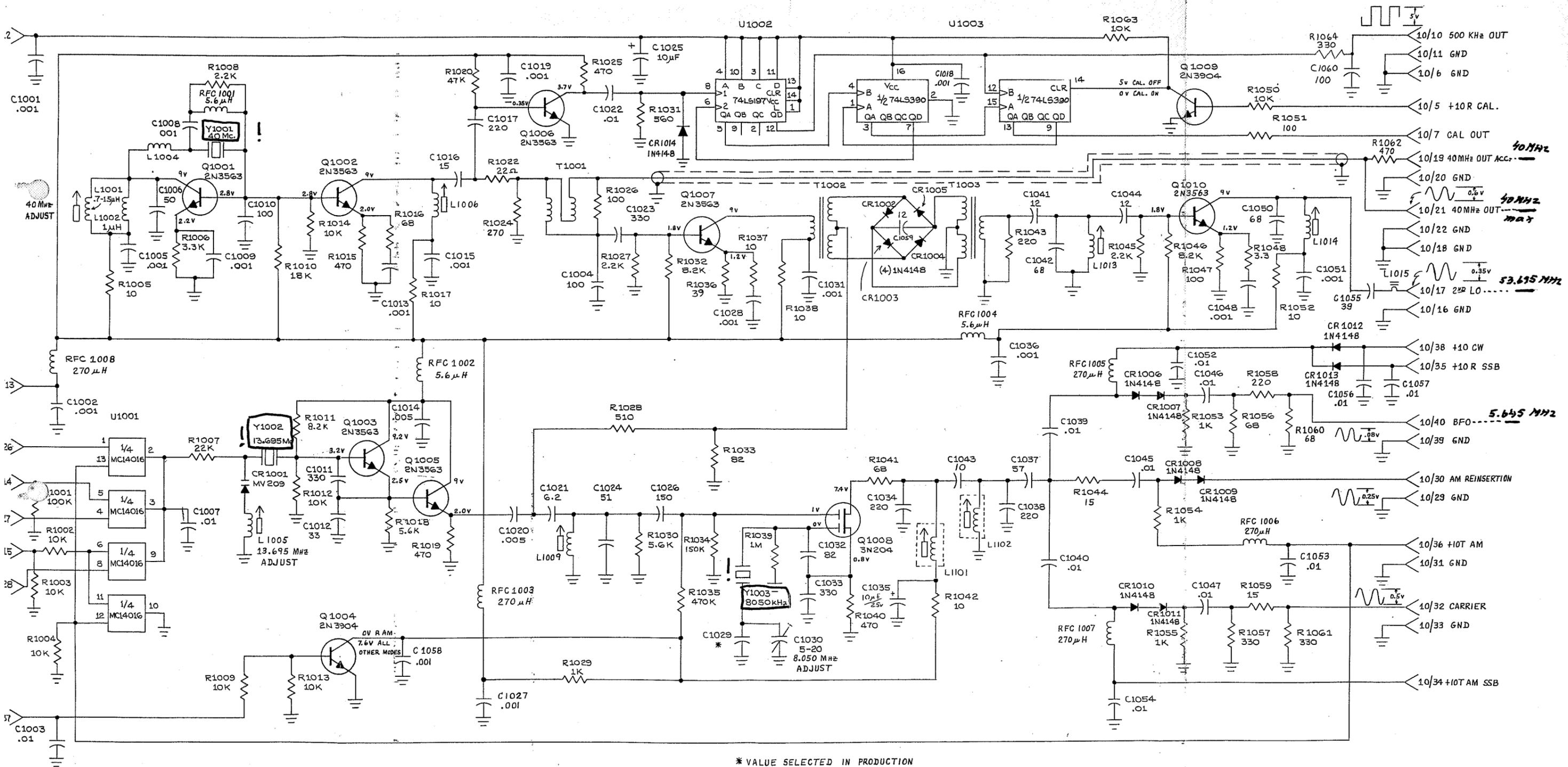


NOTE  
 DIODES CR903 THRU CR918 ARE TYPE MPN 3404.  
 ALL VOLTAGES MEASURED IN 2.3 KHz POSITION.

Fig. 2-18 IF Selectivity Board Schematic



1001	1002	1005	1006	1008	1009	1010	1011	1014	1015	1016	1017	1019	1020	1022	1024	1025	1026	1027	1031	1032	1033	1034	1037	1038	1040	1041	1042	1043	1044	1063	1045	1046	1047	1050	1052	1060	1064	1062								
1001	1002	1005	1006	1008	1009	1010	1011	1012	1013	1015	1016	1019	1021	1024	1025	1026	1027	1028	1030	1031	1032	1033	1034	1028	1030	1031	1032	1033	1034	1035	1036	1038	1041	1042	1044	1052	1046	1053	1056	1051	1058	1061	1055	1057		
1001	1002	1004				1005					1006					1009											1101	1012			1013													1014		1015



\* VALUE SELECTED IN PRODUCTION

Fig. 2-20 PBT/Reference Board Schematic



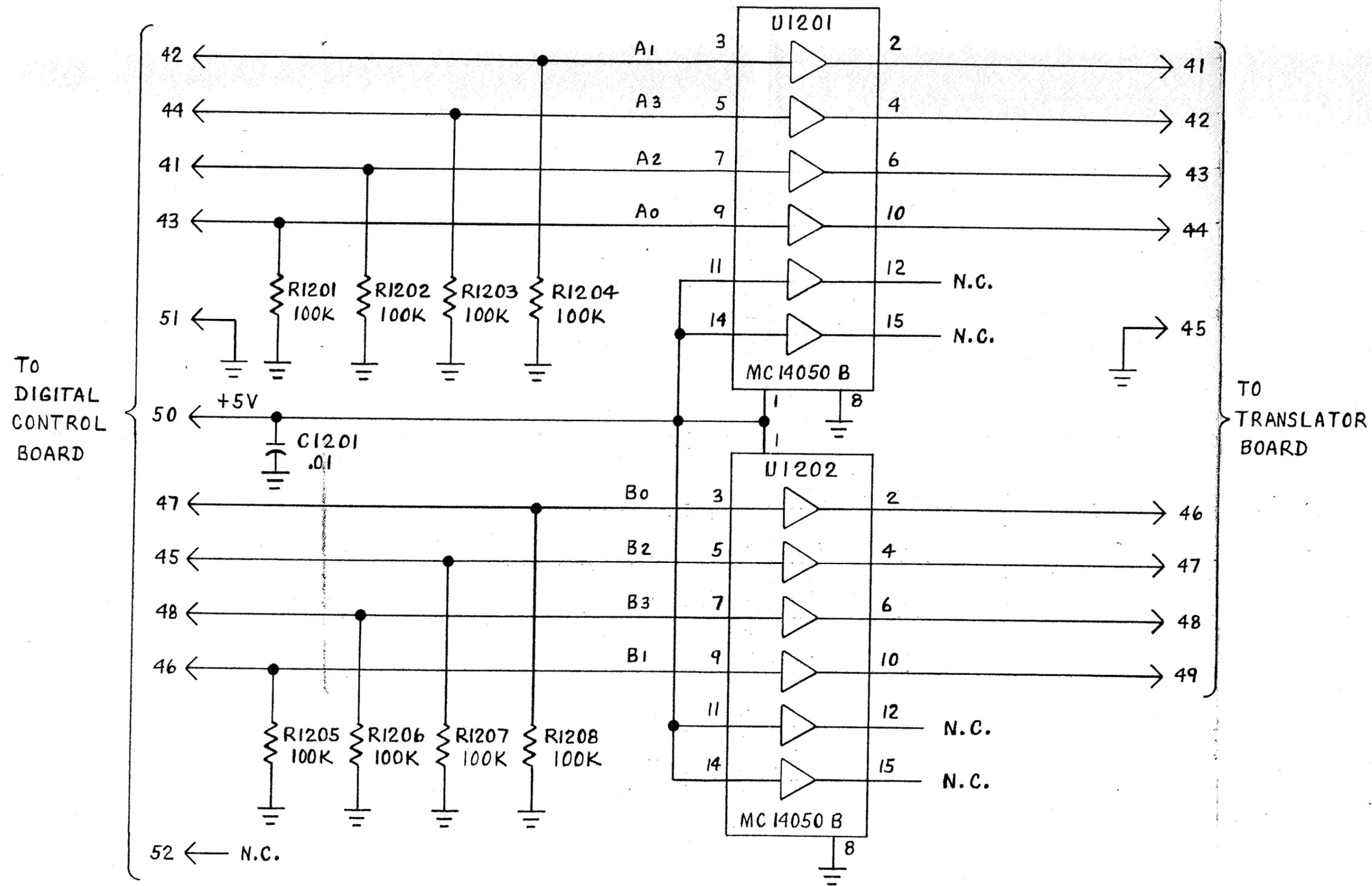


Fig. 2-24 Jumper Board Schematic

C	1401 1603 1402 1604 1602 1601 1404	1605	1301 1305 1311 1317 1607 1302 1309 1315 1321 1303 1307 1313 1319 1304	1611	1503 1505 1501 1504
R	1402 1601 1401 1403 1406 1405 1605	1607 1608 1609	1312 1318 1608 1306 1609 1310 1316 1322 1610 1611 1621 1612 1613	1617 1618 1619 1615 1616	1506 1502 1612 1507 1502 1504
L			1301 1306 1310 1314 1302 1304 1308 1312	1305 1309 1313 1303 1307 1311 1315	

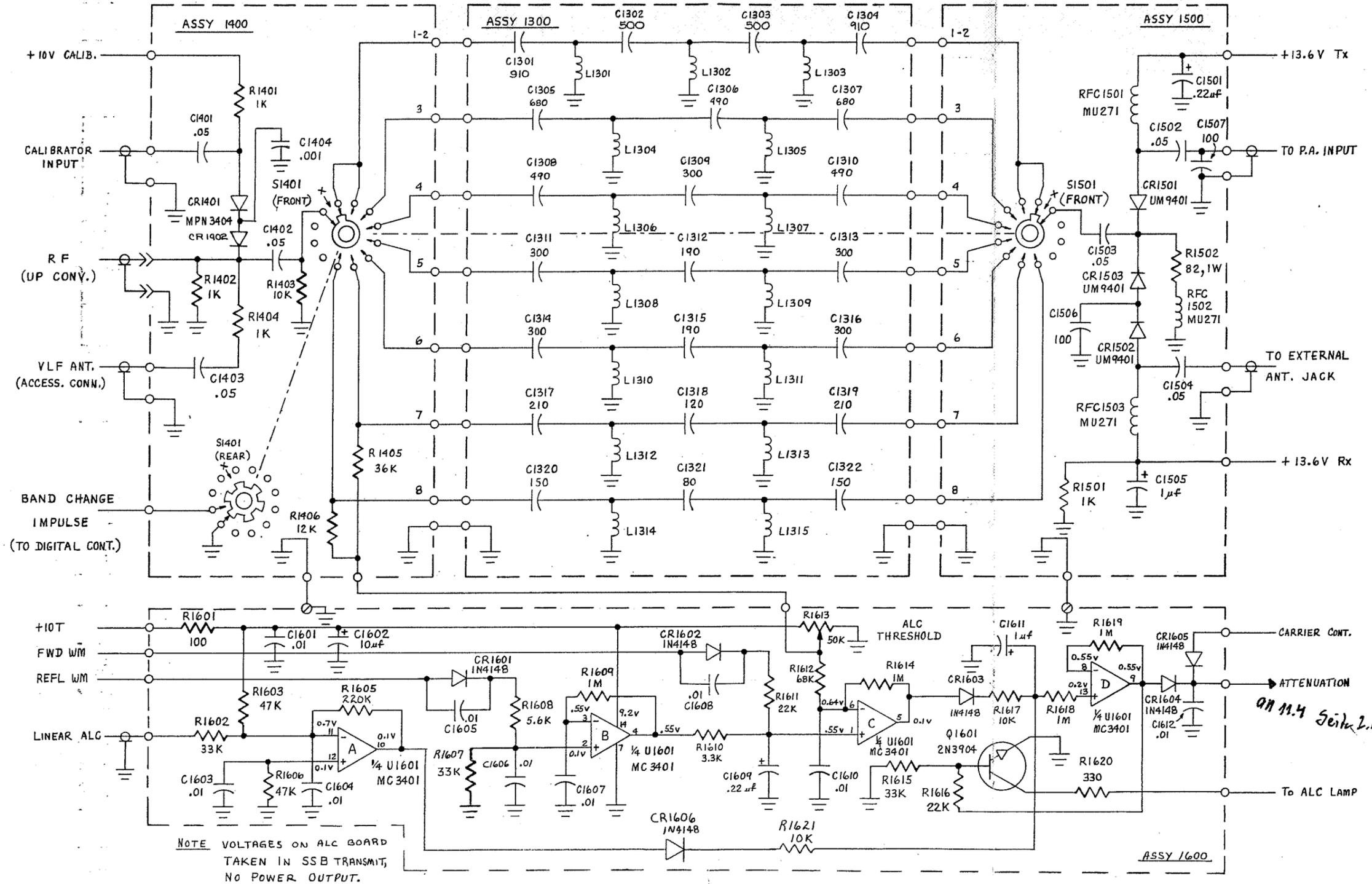


Fig. 2-28 High Pass Filter Module Schematic

C	1903	1902	1701 1707 1702 1801 1811 1802 1703 1713 1704 1714 1803 1812 1804 1705 1710 1706 1805 1813 1806 1711 1717 1712 1807 1814 1708 1718 1709 1719 1808 1815 1809 1715 1720 1716 1810 1816	2003 2004	1901 2006	2001 2002
R		1901 1903 1902		2004	2003	2001 2002
L			1701 1705 1801 1805 1703 1707 1803 1807	1702 1706 1802 1806 1704 1708 1804 1808		

NOTE: BAND 1 FILTER IS OPTIONAL  
FOR OPERATION BELOW 1.8MHz.

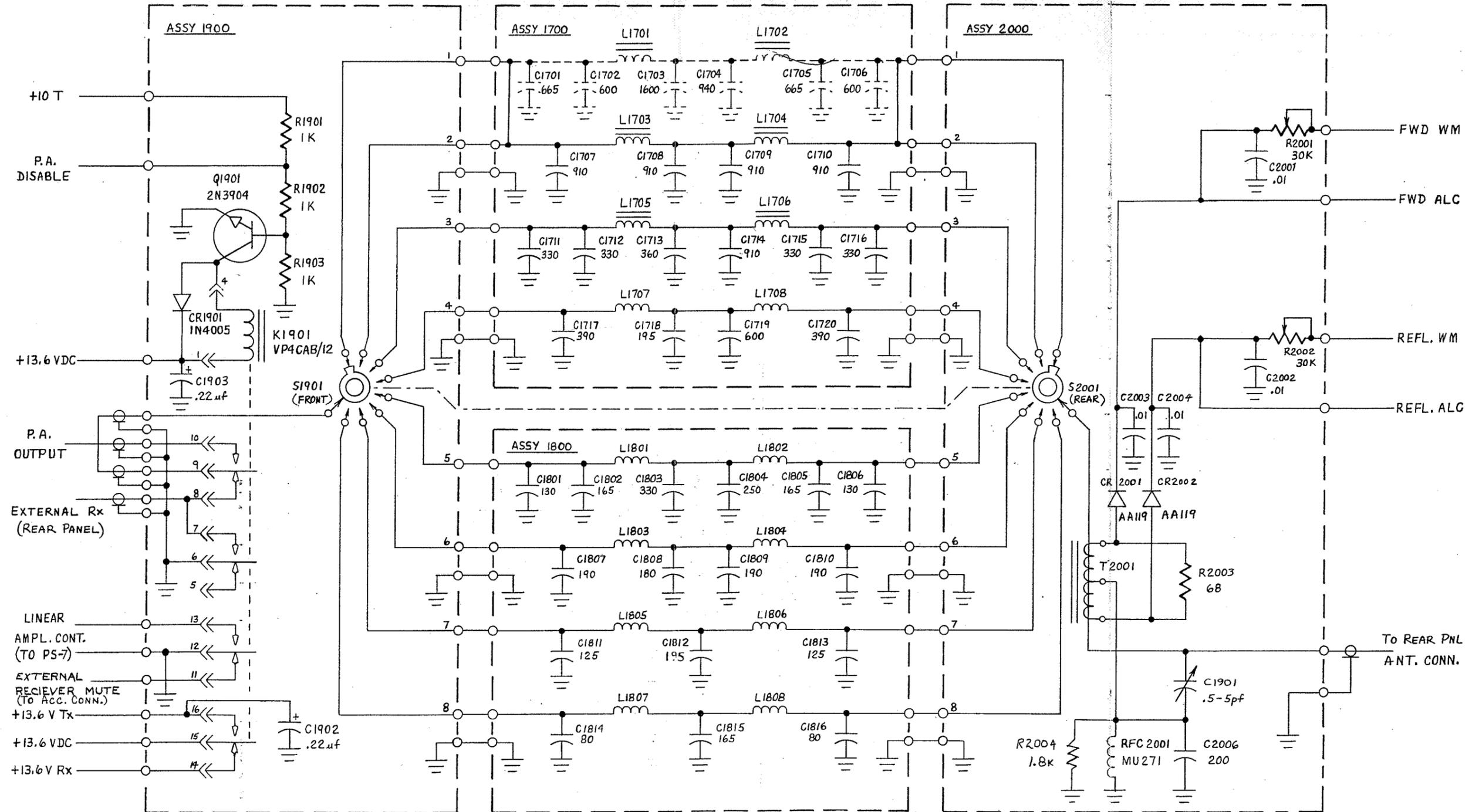
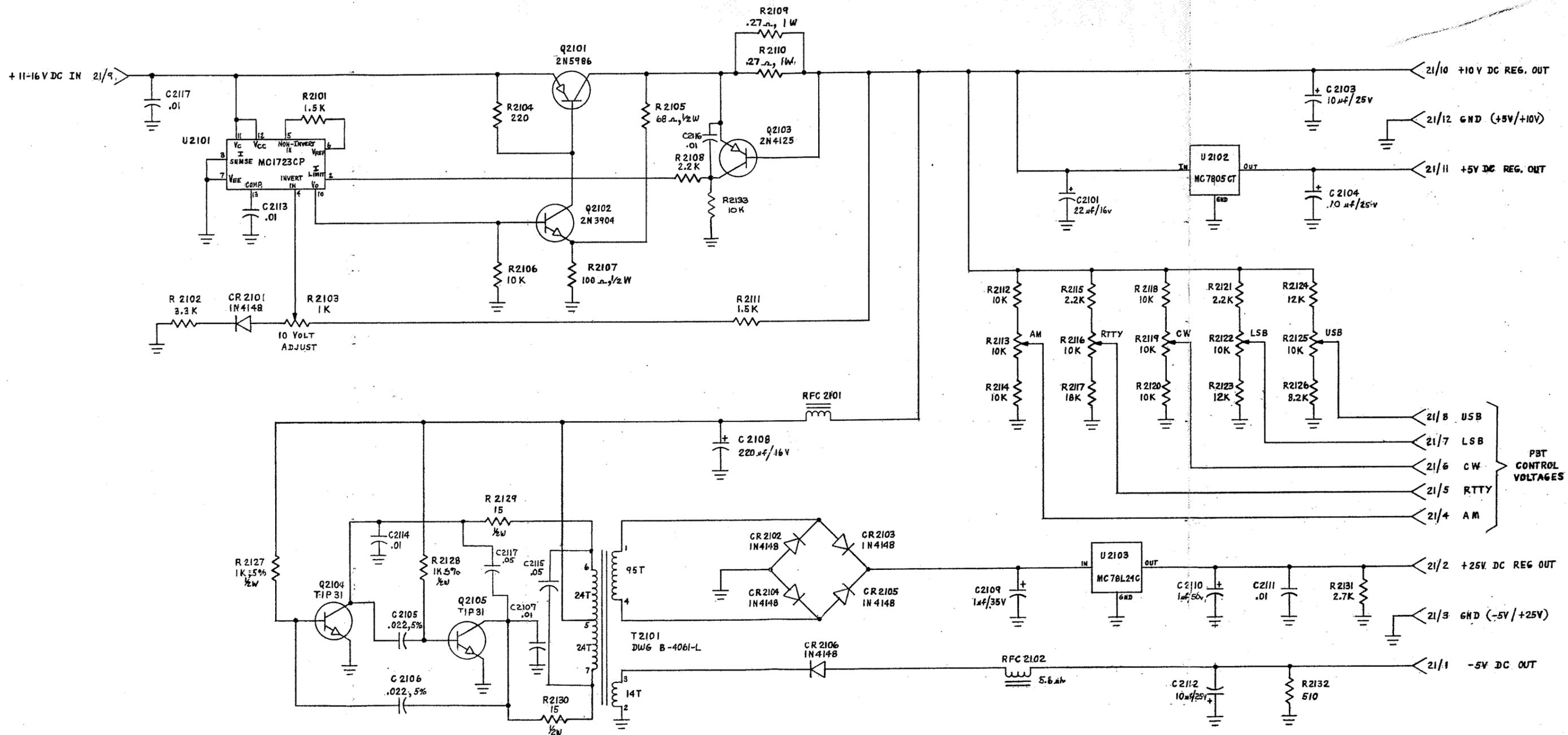


Fig. 2-32 Low Pass Filter Module Schematic

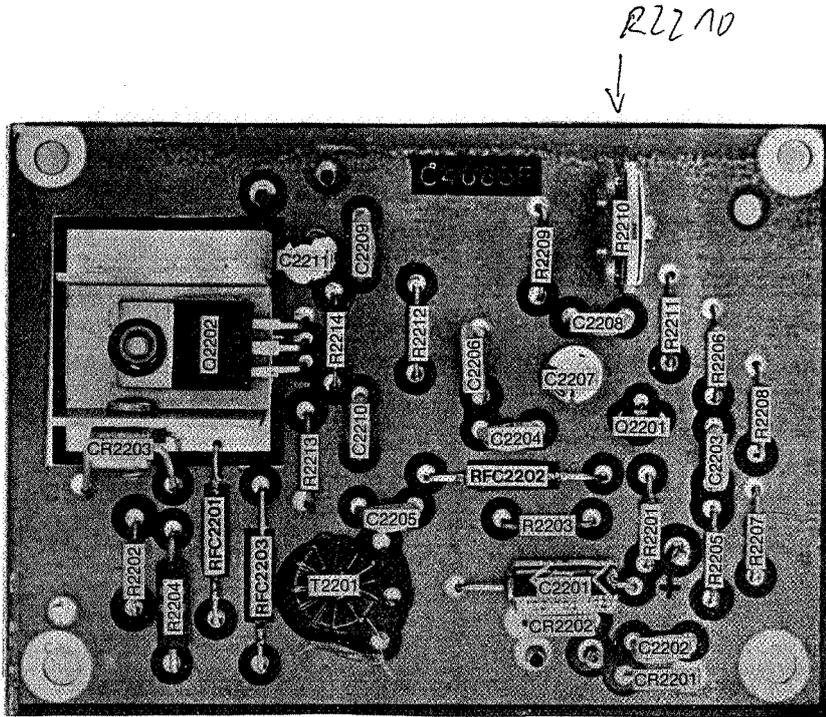


C	2117	2113	2114	2105 2106	2117	2107	2115	2108 2116	2109	2101	2110 2112	2111	2103 2104			
R	2102	2127	2103 2101	2128	2104 2106 2129	2107 2130	2105	2108 2133 2111	2109 2110	2112 2113 2114	2115 2116 2117	2118 2119 2120	2121 2122 2123	2132	2124 2125 2126	2131



NOTE  
ALL RESISTORS 1/2 W, ±10% UNLESS NOTED OTHERWISE.

Fig. 2-34 Power Supply Board Schematic



R	2205 2207	2201 2208	2203 2209	2210	2211	2214 2213	2202 2204	2212
C	2201 2202	2203	2207	2208	2204 2206	2211	2205 2210	2209

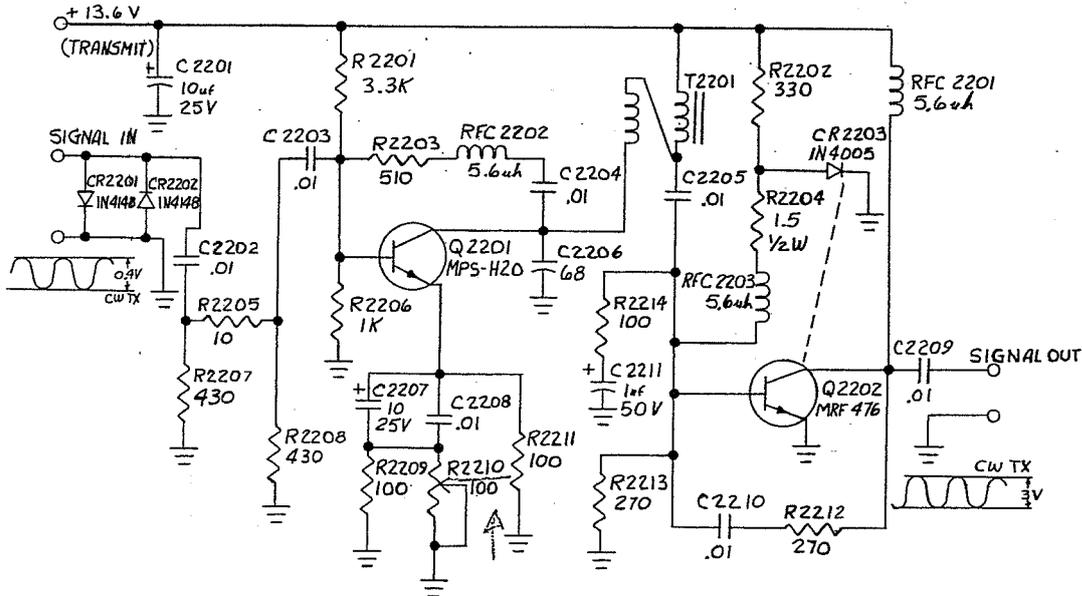
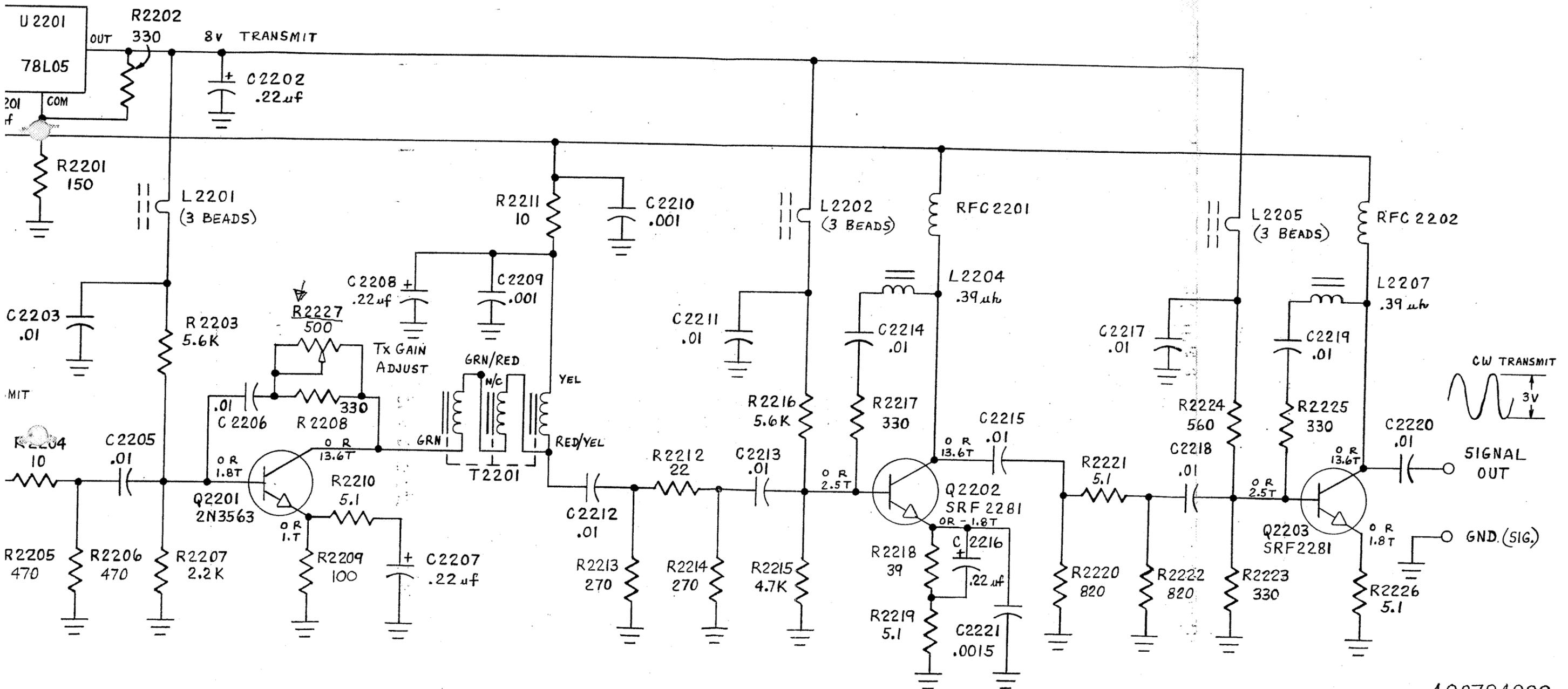


Fig. 2-36 Predriver Board #2 Pictorial & Schematic

2203	2205	2202	2206	2207	2209	2212	2210	2211	2213	2214	2215	2221	2217	2219	2220			
05 2201	2206	2202	2203	2208	2210	2211	2213	2212	2214	2215	2217	2218	2220	2221	2222	2223	2225	2226
2204		2207		2209	2227					2216	2219		2220	2221	2222	2223	2225	2226
		2201								2202	2204					2205	2207	



408794000

Fig. 2-37 Pre-driver Board #1 Schematic

C	2301 2311	2312	2302 2304	2328	2303 2305	2313 2322	2315	2314	2306	2307 2308	2323 2324	2327	2320 2321	2317 2318	2310 2312	2309	2319	2325 2326	2329	
R	2301	2302 2303	2313 2314	2305 2306	2304	2307	2317	2308 2309	2310 2311	2315 2316	2318 2319	2312								
L	2301	2302			2304	2305						2307 2308								

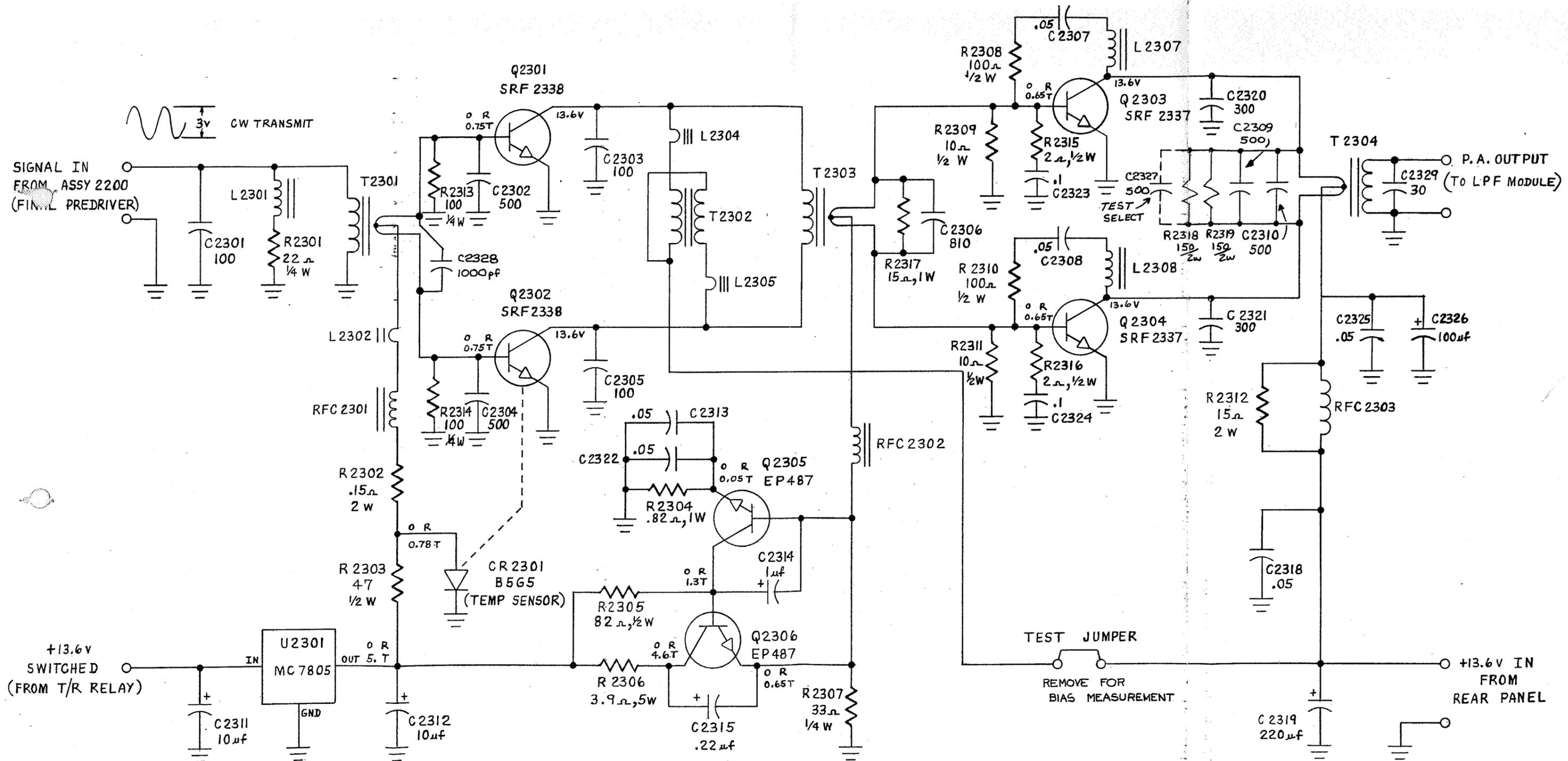


Fig. 2-38 Power Amplifier Schematic



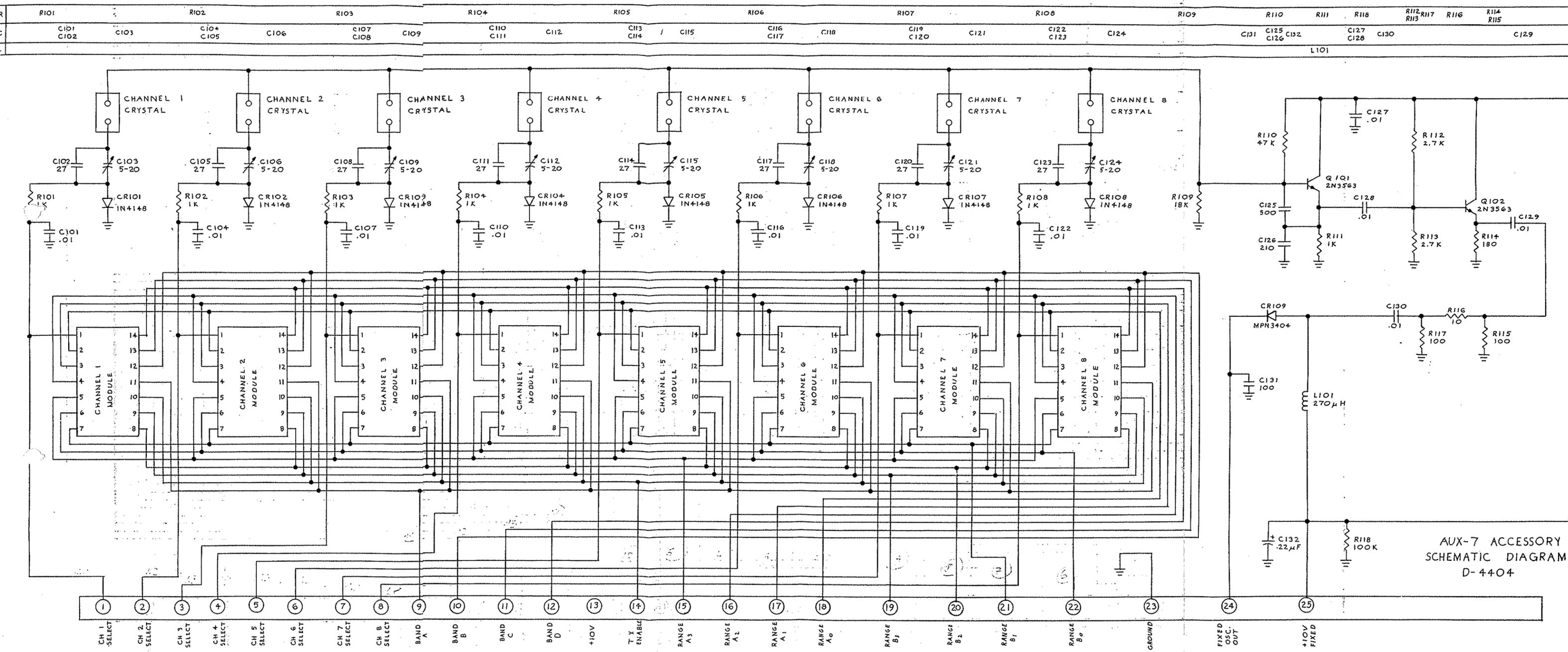
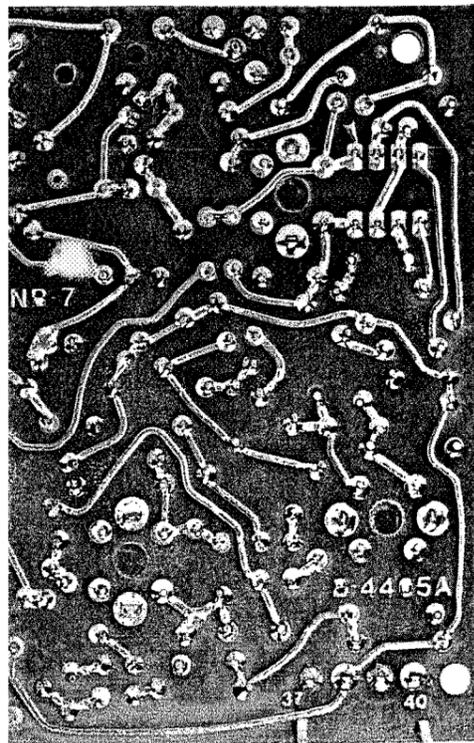
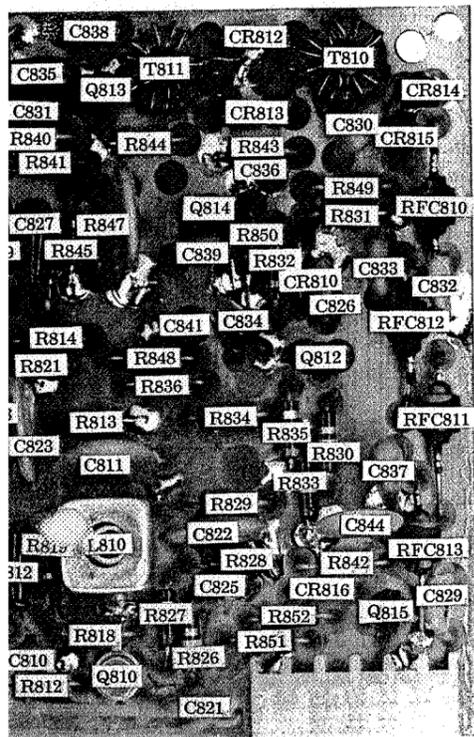


Fig. 4-4 AUX-7 Board Schematic



R	810	811	812	820	827	828	818	813	819	829	814	821	822	823	815	850	834	824	816	817	838	840	841	846
C	810	821	825	836	811	822	830	832	812	842	813	823	814	815	817	818	835	827	816	817	835	828	819	820
L									810					811							812			

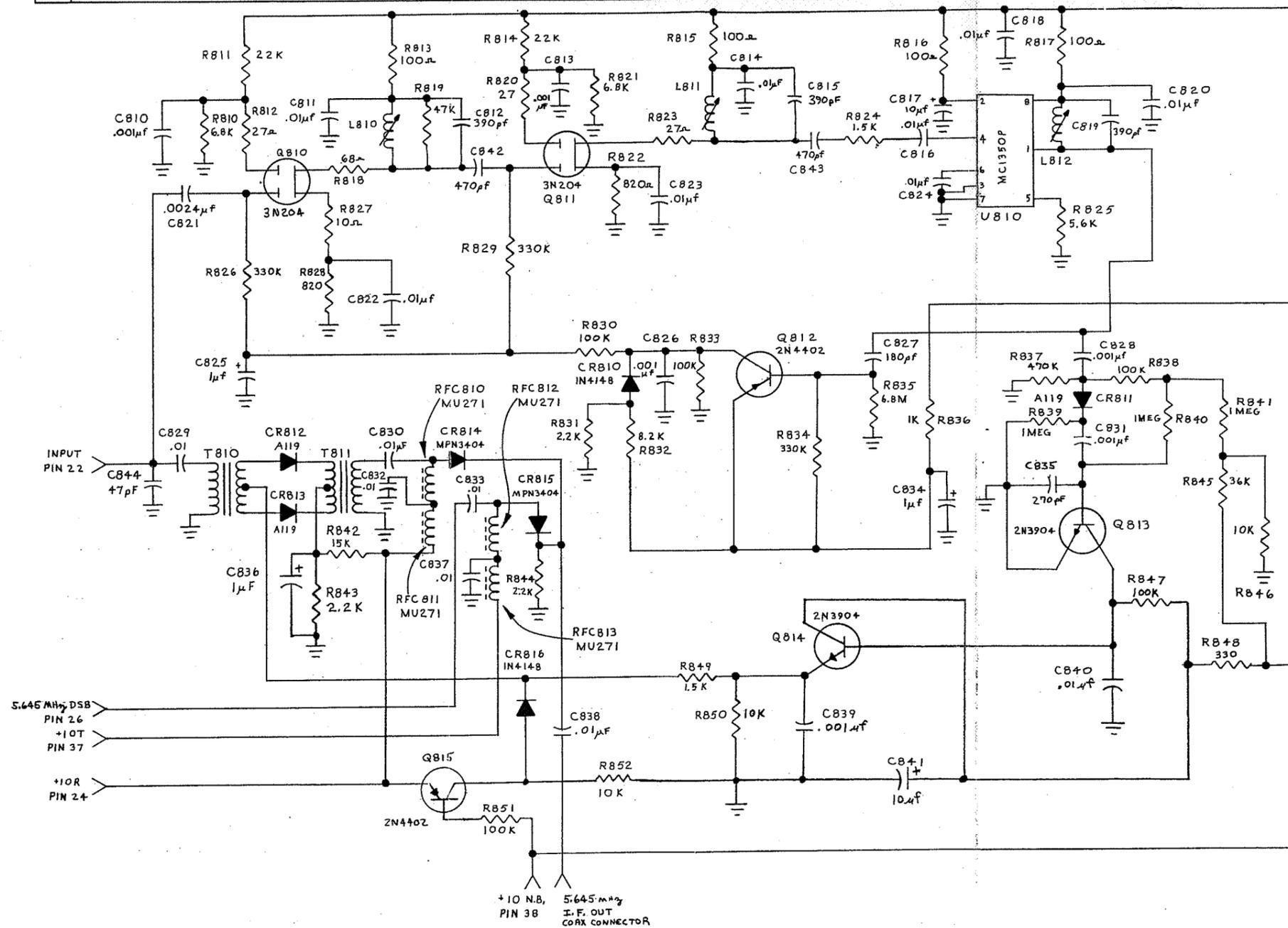
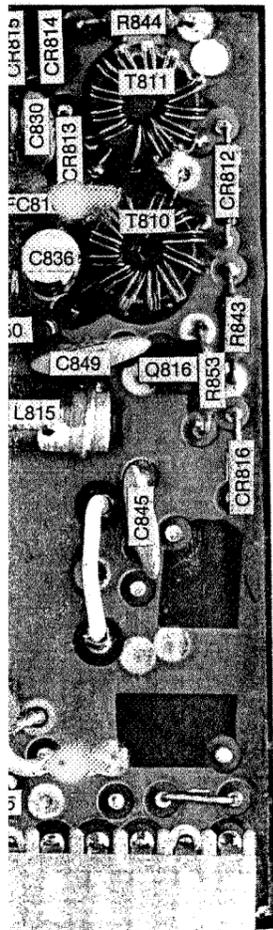
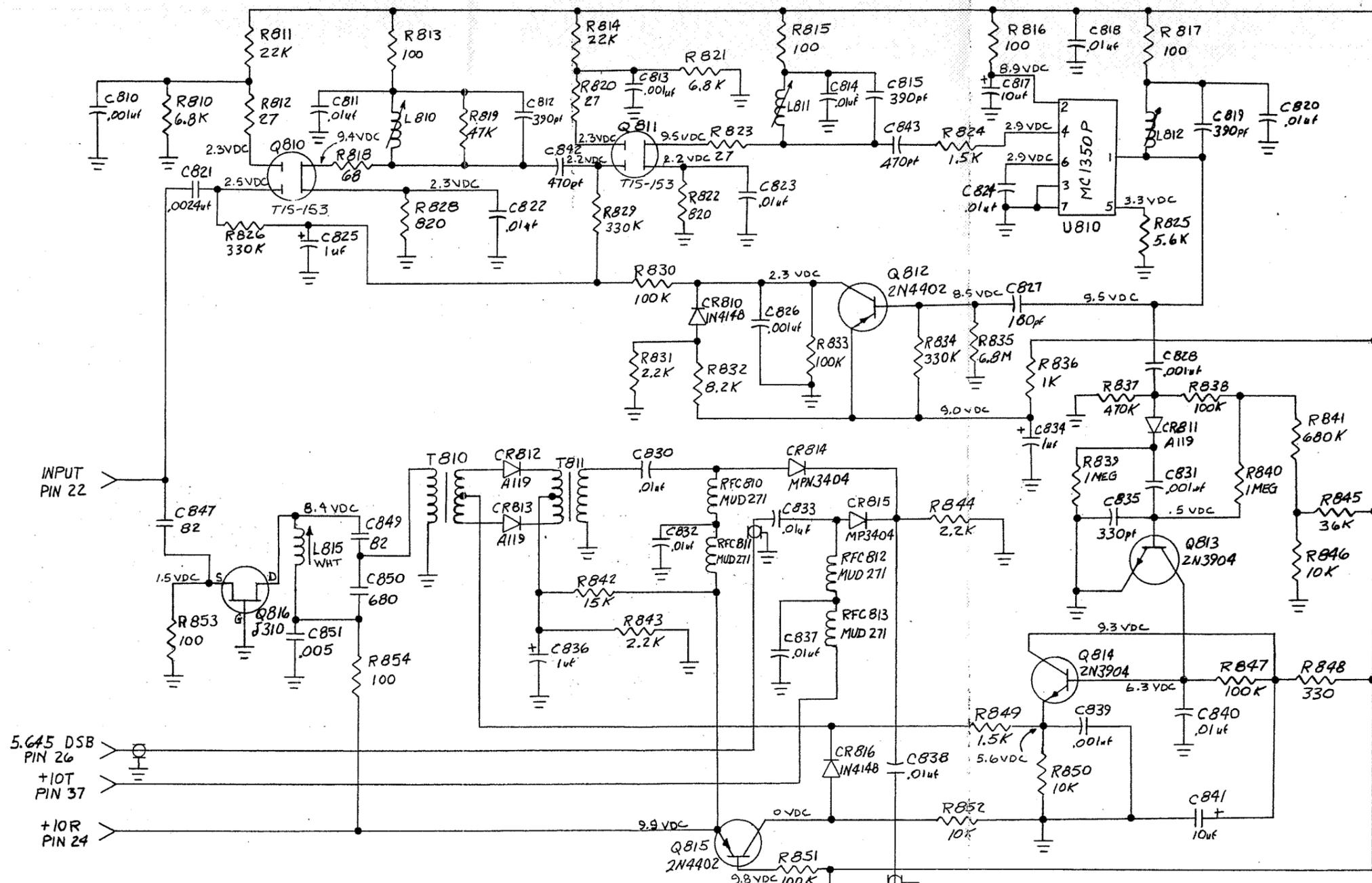


Fig. 4-6 NB-7 Board Schematic - Version 1

Board Pictorial - Version 1



R	810	826	811	818	813	820	819	814	829	830	821	823	815	851	834	824	816	836	839	837	817	838	840	841	845
C	810	847	821	825	811	849	822	812	842	813	832	823	826	814	815	843	824	834	839	835	828	840	819	820	
L			813	815	814	810						811									812				



VOLTAGES MEASURED IN RECEIVE,  
NOISE BLANKER ENABLED  
HIGHEST NUMBERED RESISTOR R854  
HIGHEST NUMBERED CAPACITOR C851

Fig. 4-8 NB-7 Board Schematic - Version 2