



HF CONCEPTS

www.qsl.net/de/dk4dds

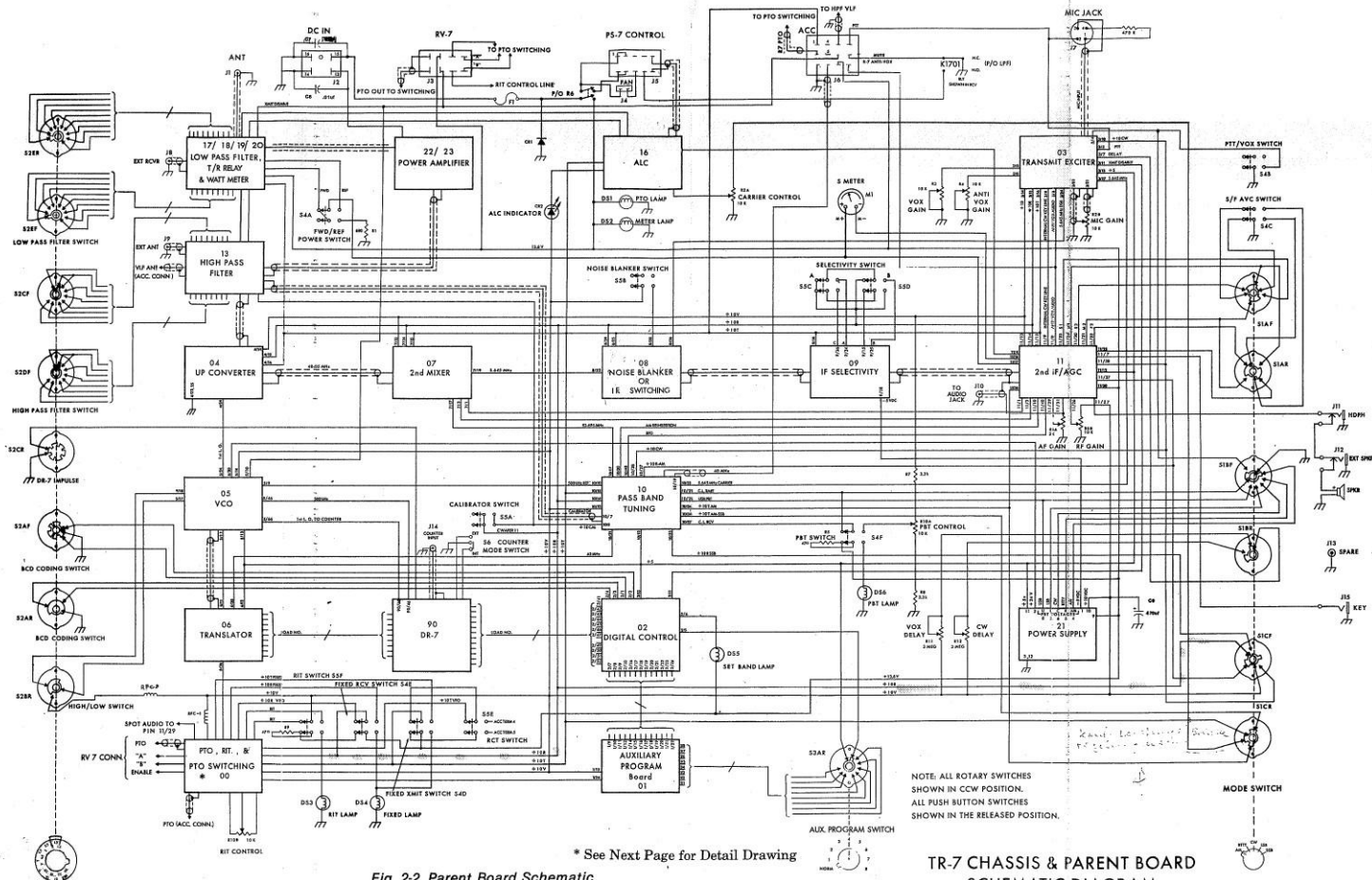
dk4dds@t-online.de

**Marc van Stralen
Schulstrasse 21
D-48455 Bad Bentheim
Germany
Phone: +49(0)5924-997337
Fax: +49(0)5924-997338**

SKYPE: marc.van.stralen



Fig. 1-1 TR-7 Block Diagram

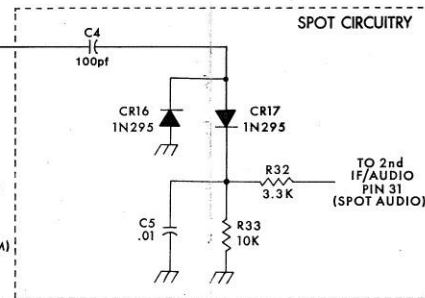
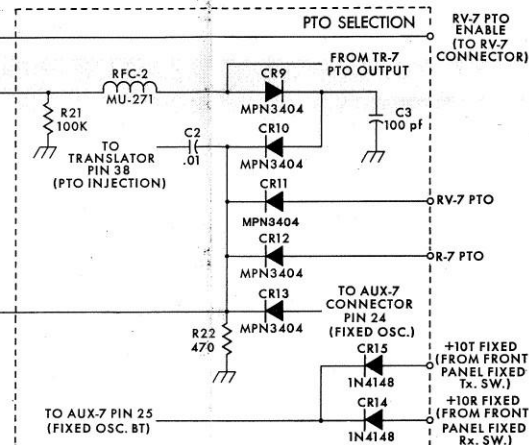
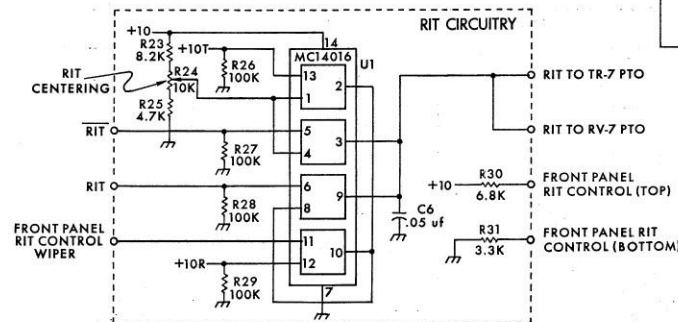
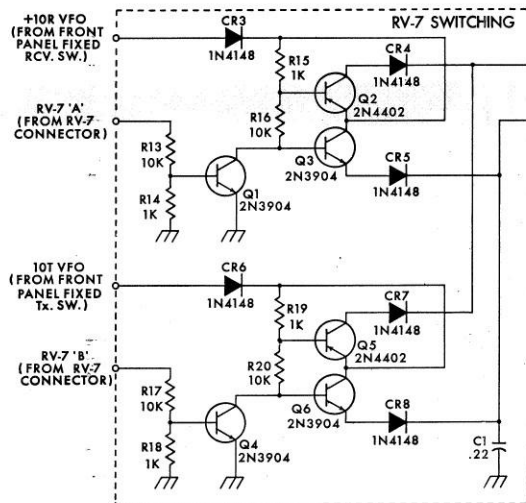


* See Next Page for Detail Drawing

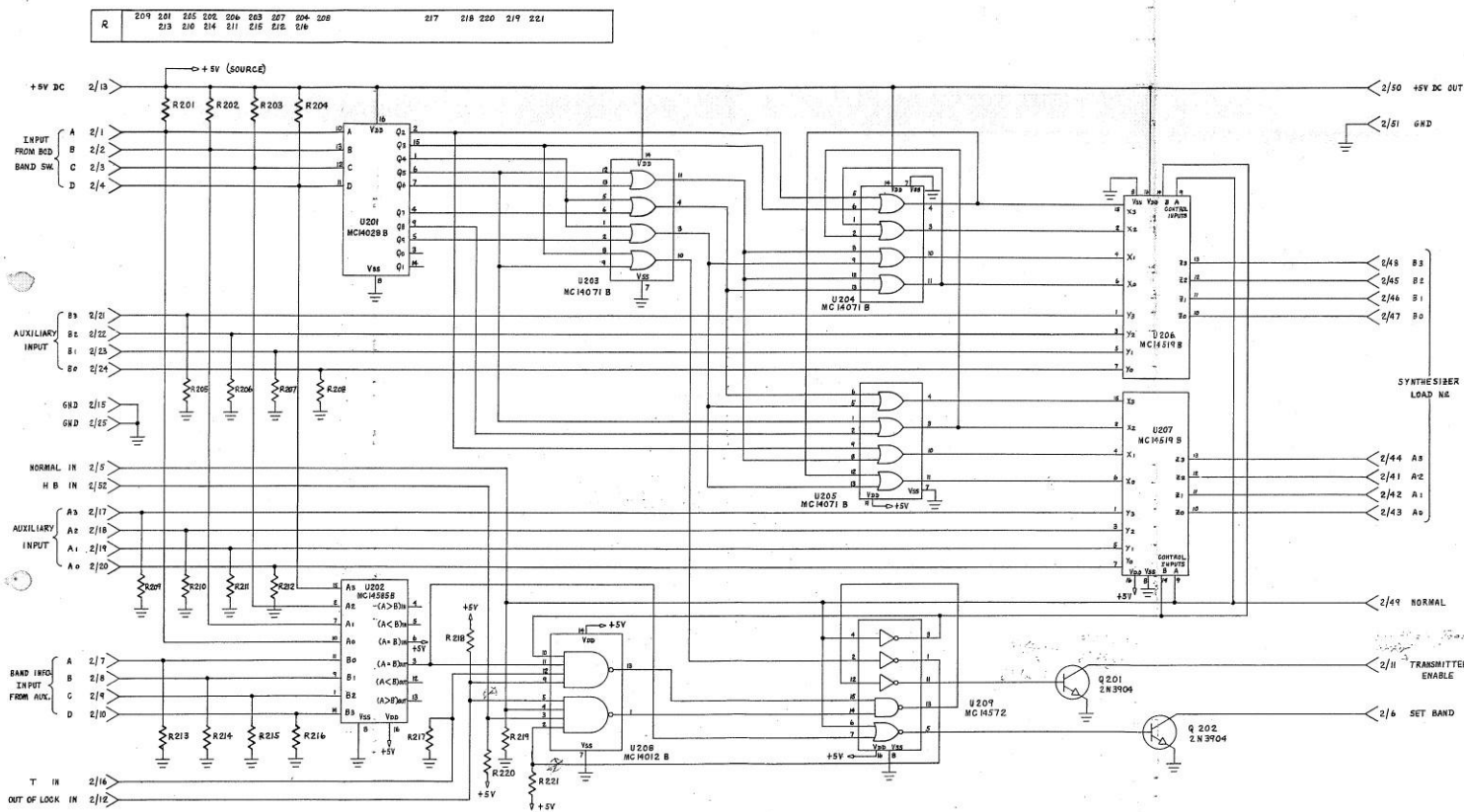
Fig. 2-2 Parent Board Schematic

TR-7 CHASSIS & PARENT BOARD SCHEMATIC DIAGRAM

Falsch 8/25 = 8/37

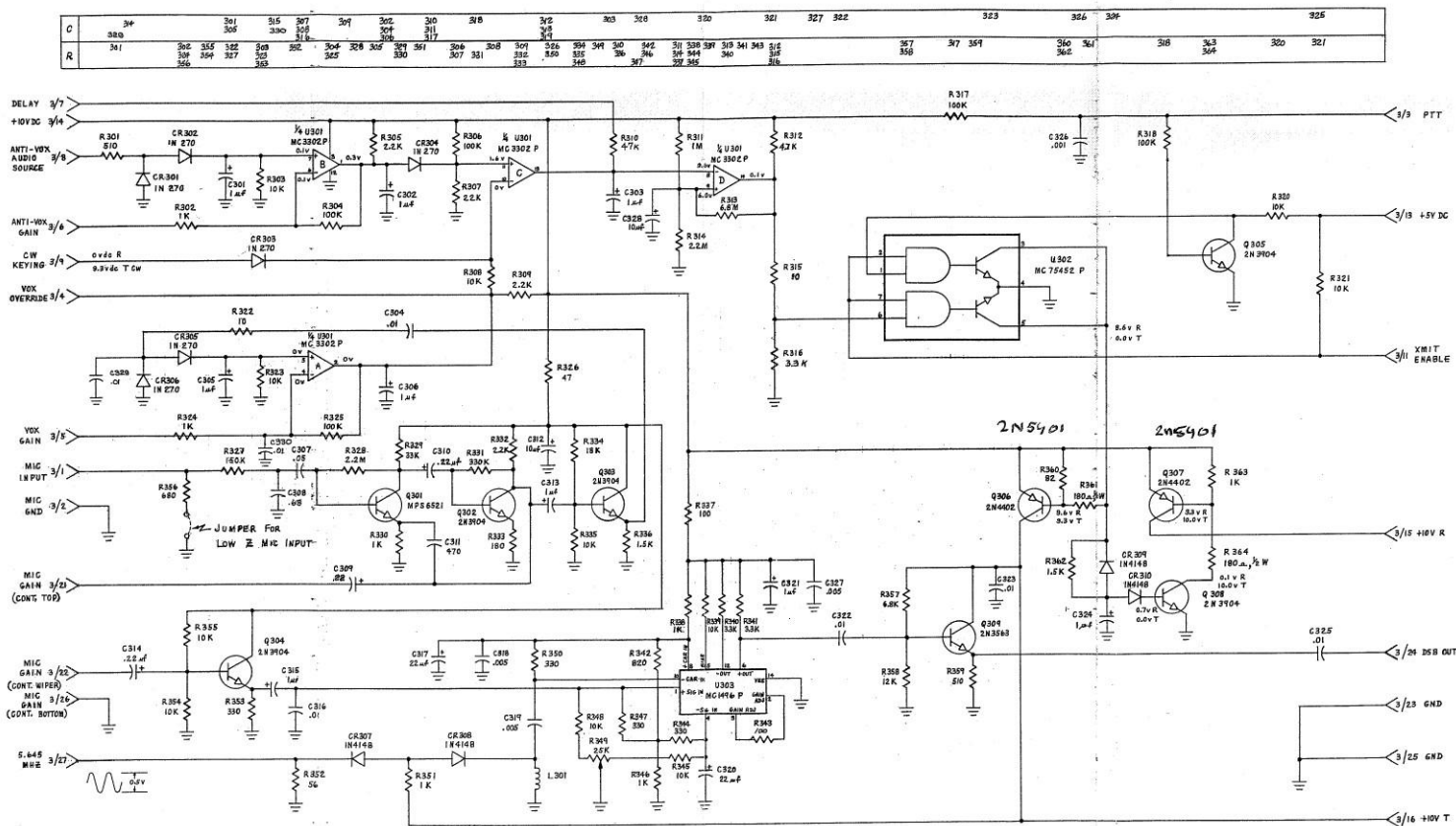


PARENT BOARD COMPONENTS TR7 C-4682



NOTE -
ALL RESISTORS ARE 100 K $\pm$ 1% W, 10%

Fig. 2-4 Digital Control Board Schematic



R	402	403	401	404	415	405	406	407	408	413	410	411	412	414			
C	401	427	407	402	403	409	405	404	411	412	413	414	415	416	425	422	421
				408	424	428	406						417	418	426	423	424
							410						419	420			
L				402		403		404				401					405
																	406

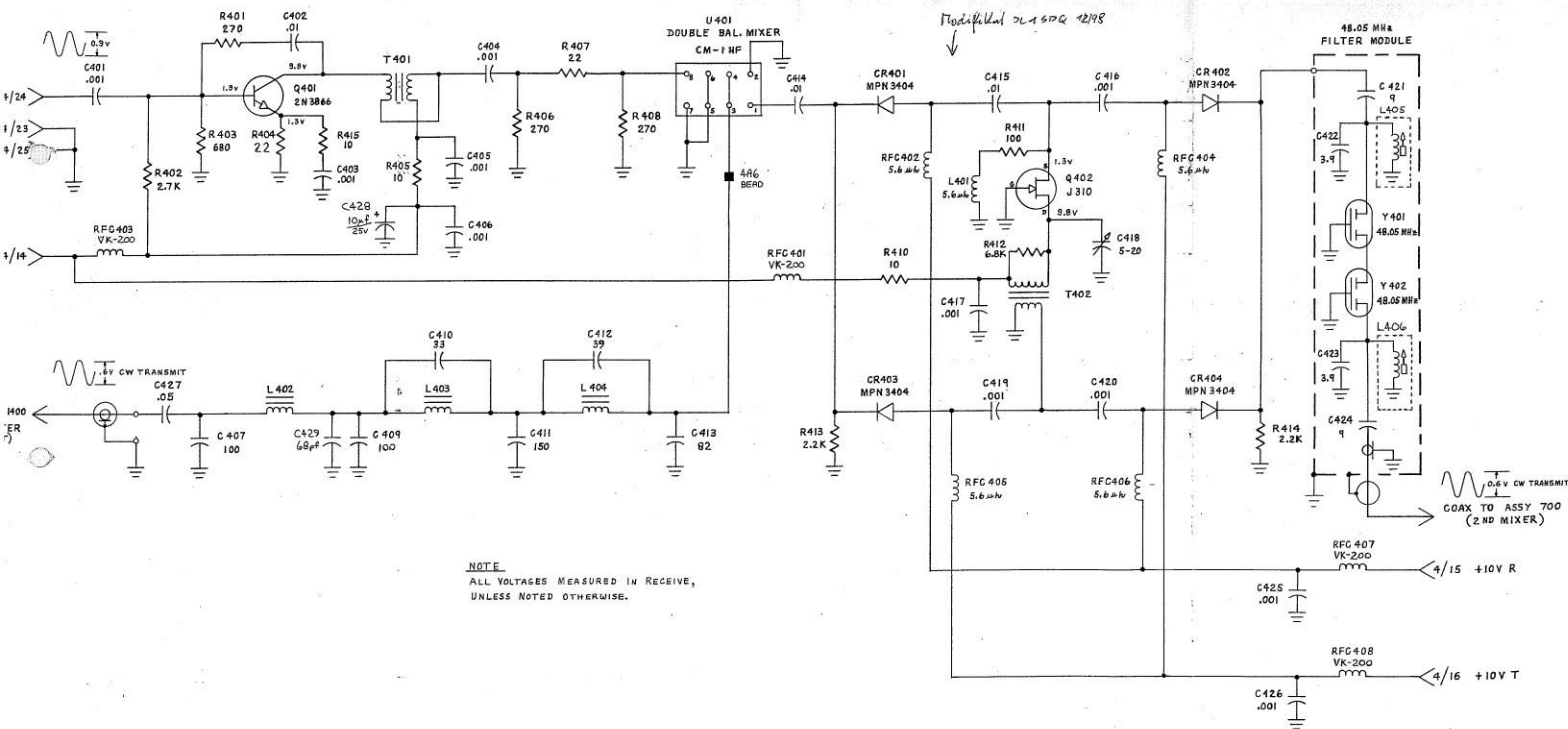
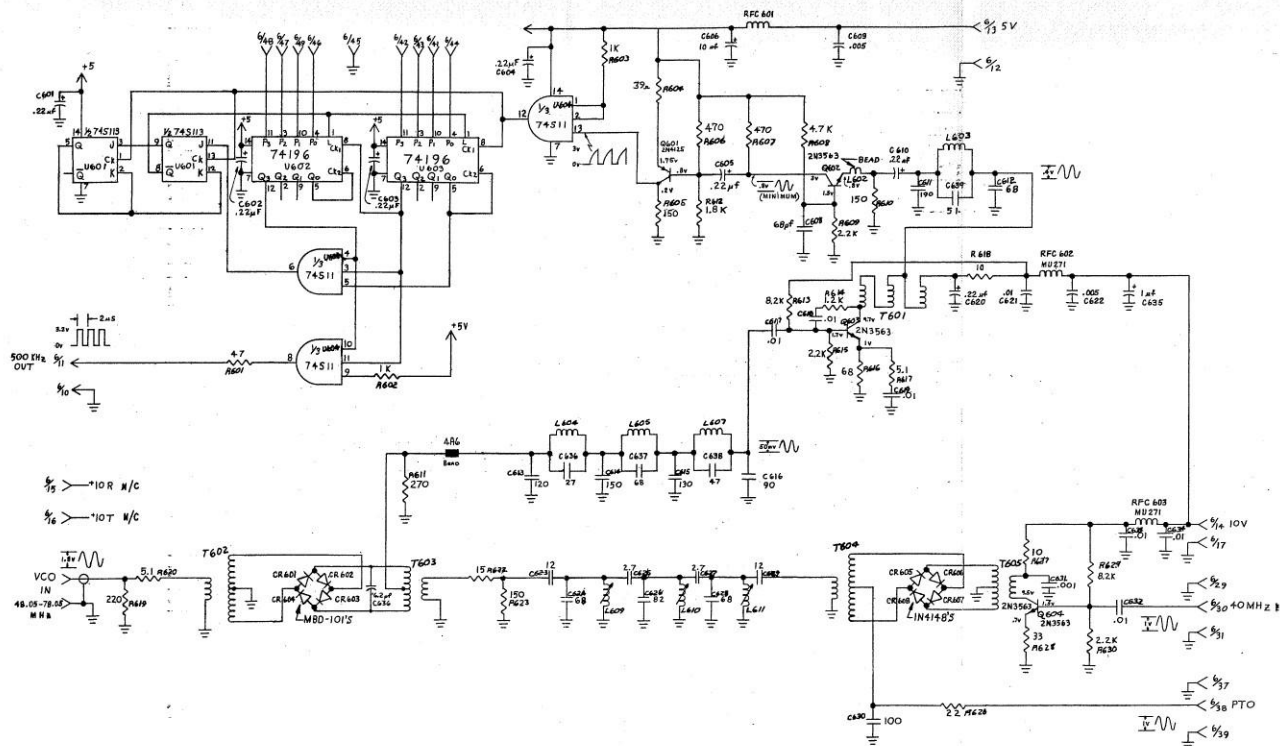


Fig. 2-8 Up-Converter Board Schematic



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



C	713	704	710	711	720	721	715	732	717	724	716	725	726	707	721	723	722	729	728	734	725	726	727
R	720	707	721	708	709	710	711	722	704	712	725	715	716	717	726	727	729	718	728	732	733	734	735
L		701	705																				

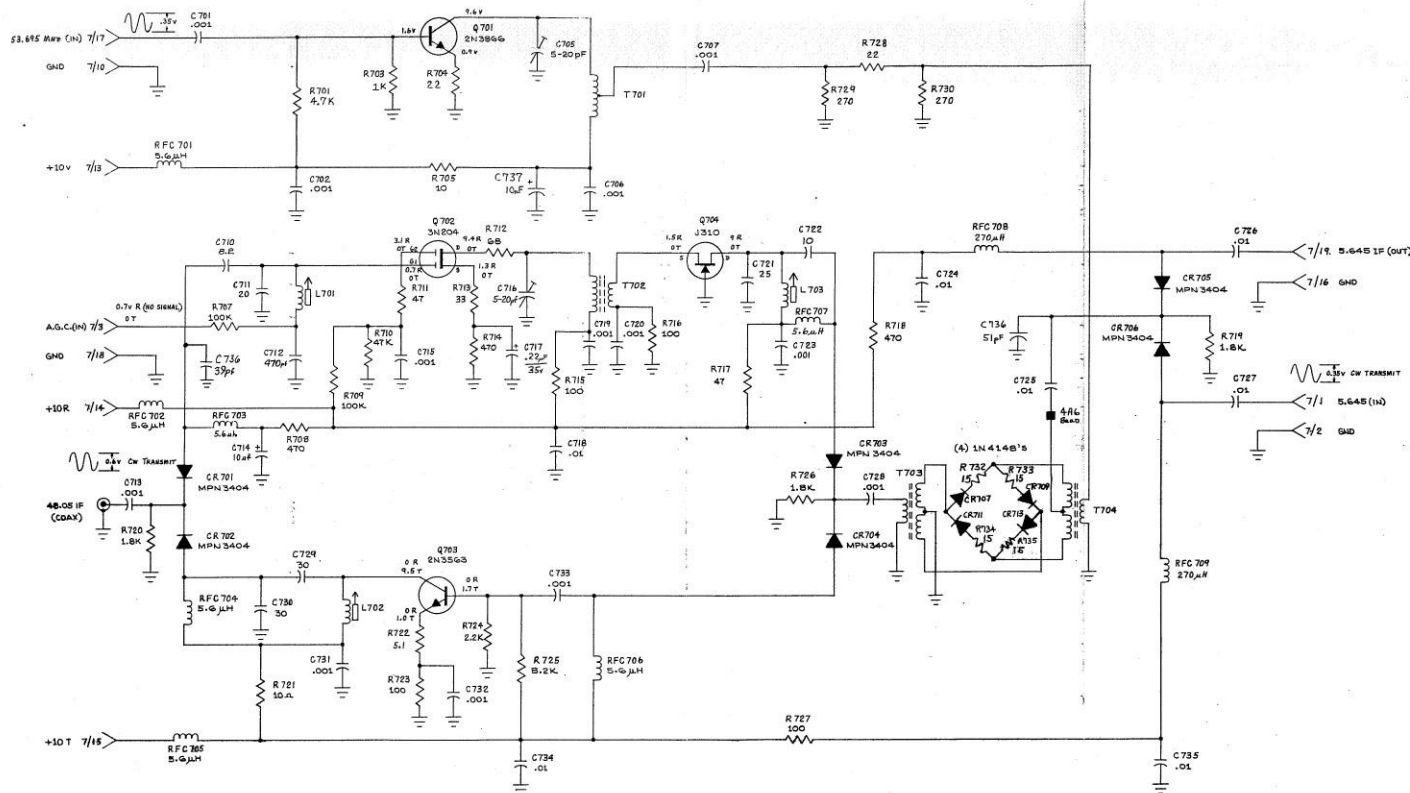


Fig. 2-14 2nd Mixer Board Schematic

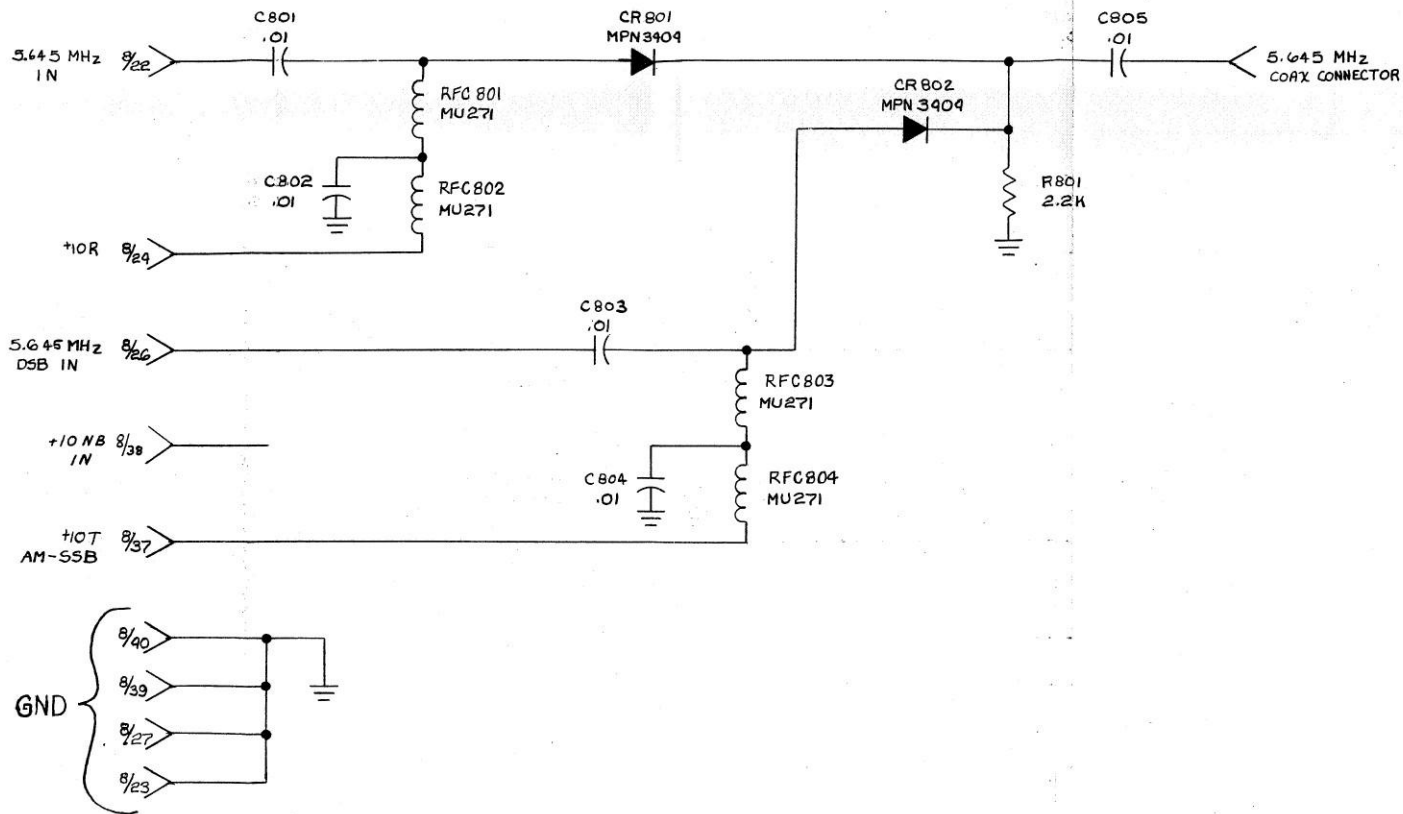


Fig. 2-16 IF Switching Board Schematic

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

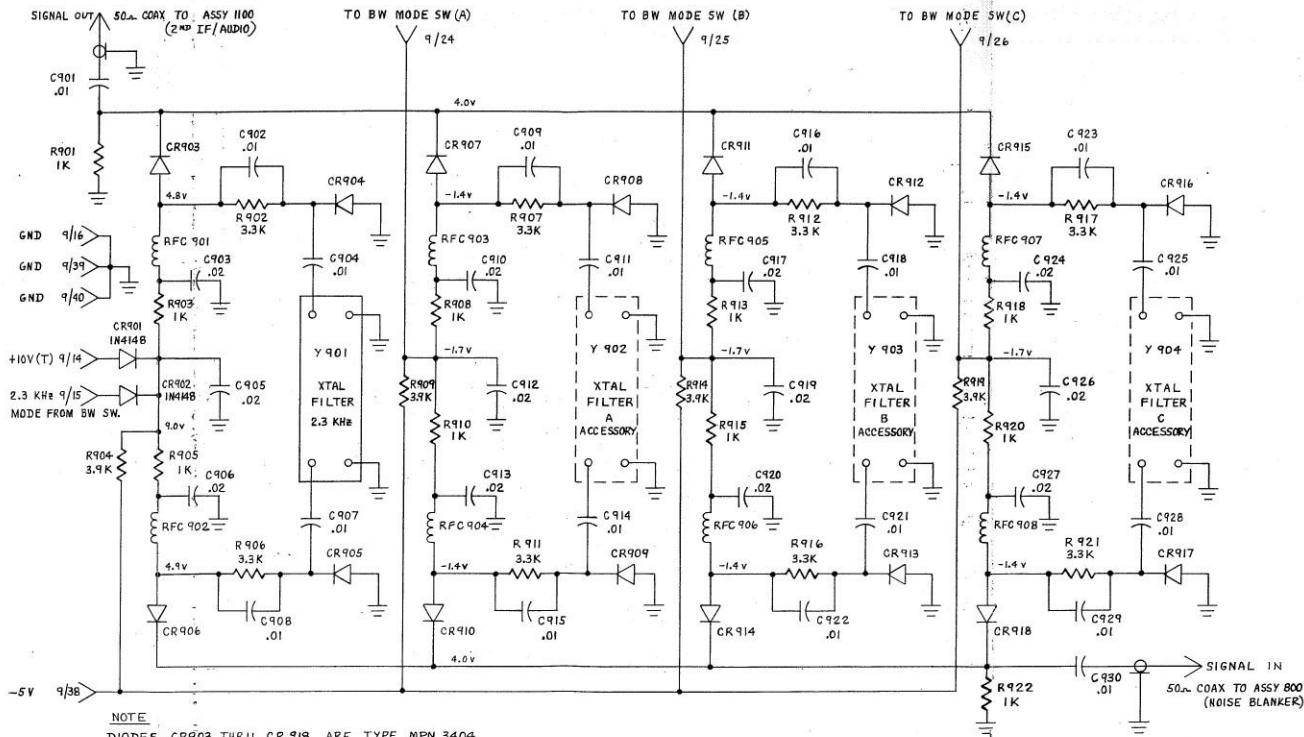
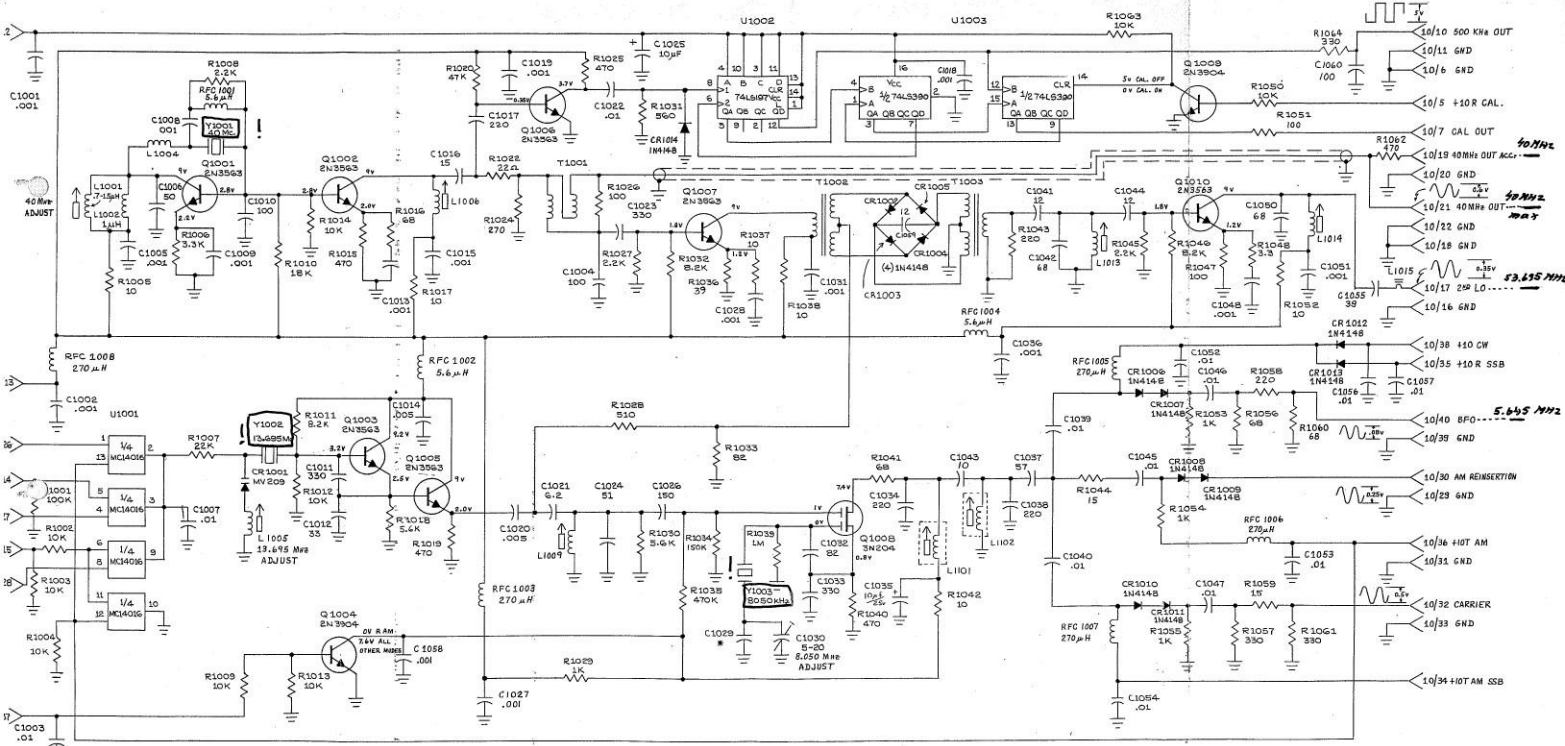


Fig. 2-18 IF Selectivity Board Schematic

1001	1002	1005	1006	1008	1009	1010	1011	1014	1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037	1040	1041	1042	1043	1044	1045	1046	1047	1050	1052	1054	1055	1056	1057	1058	1059	1060	1061	1062					
1003	1004							1013		1018	1017					1029		1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059									
1001	1002	1005	1006	1008	1009	1010		1013	1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059									
1003			1007					1018	1017							1029		1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059									
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025	1026	1027	1028	1030	1031	1032	1033	1037			1042					1051	1052	1054	1055	1056	1057	1058	1059										
		1001						1015	1016	1017	1019	1020	1023	1024	1025																																	



* VALUE SELECTED IN PRODUCTION

Fig. 2-20 PBT/Reference Board Schematic

R	1102	1109	1105	1107	1111	1113	1117	1116	1120	1125	1123	1131	1136	1142	1127	1136	1147	1150	1157	1159	1158	1159	1160	1161	1164	1167	1168	1169	1188	1172	1171	1175	1174	1182	1180	1181
	1101	1134	1104	1108	1112	1114	1114	1114	1115	1118	1118	1119	1121	1124	1127	1128	1134	1135	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	
C	1116	1178	1101	1111	1104	1104	1112	1114	1115	1118	1118	1119	1121	1124	1127	1128	1134	1135	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	
L	1105	1171	1107	1105	1111	1111	1115	1115	1118	1118	1119	1121	1124	1127	1128	1134	1135	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153		

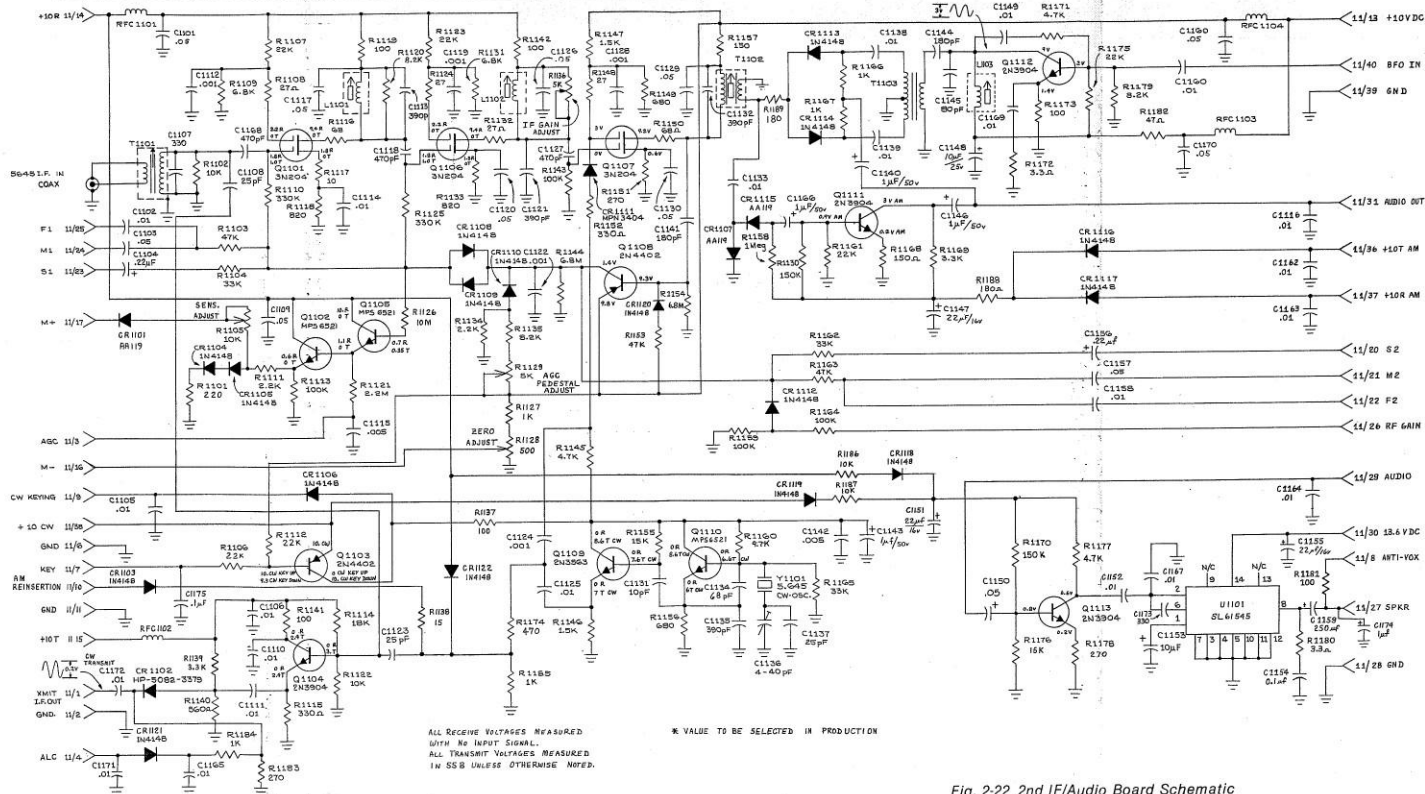


Fig. 2-22 2nd IF/Audio Board Schematic

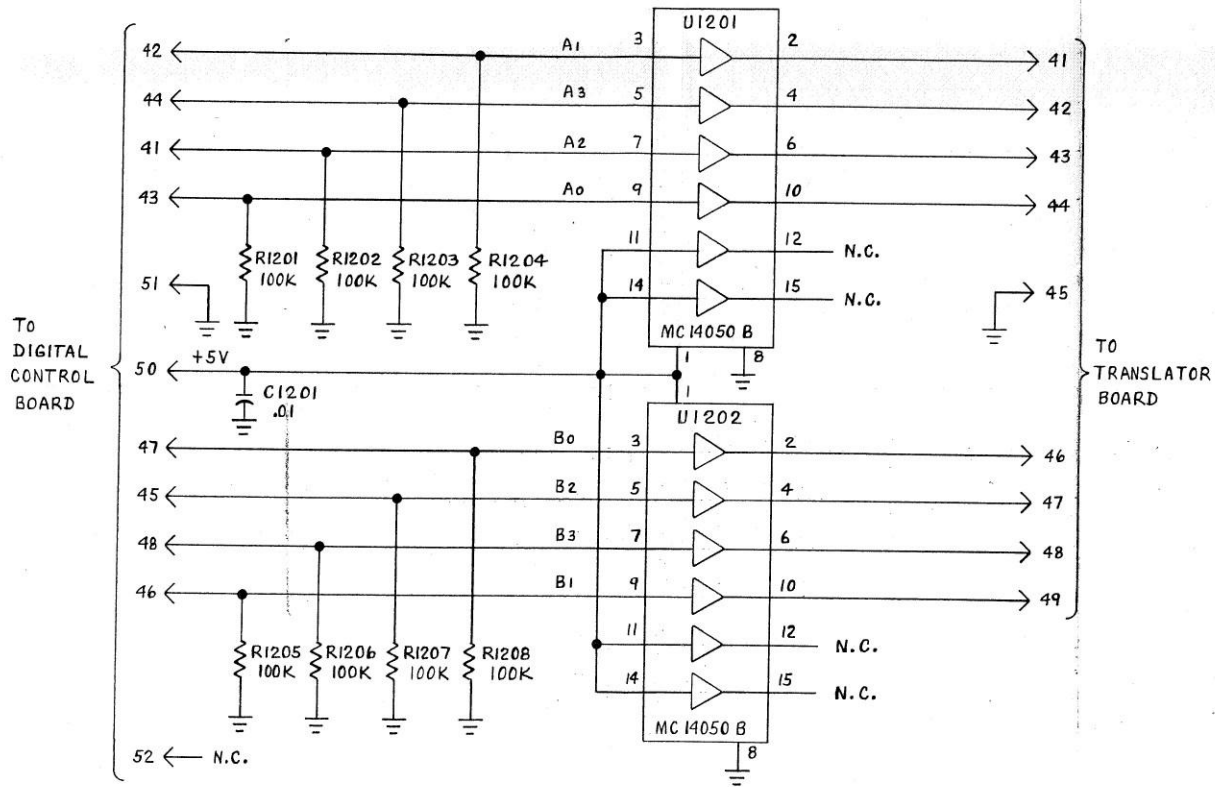


Fig. 2-24 Jumper Board Schematic

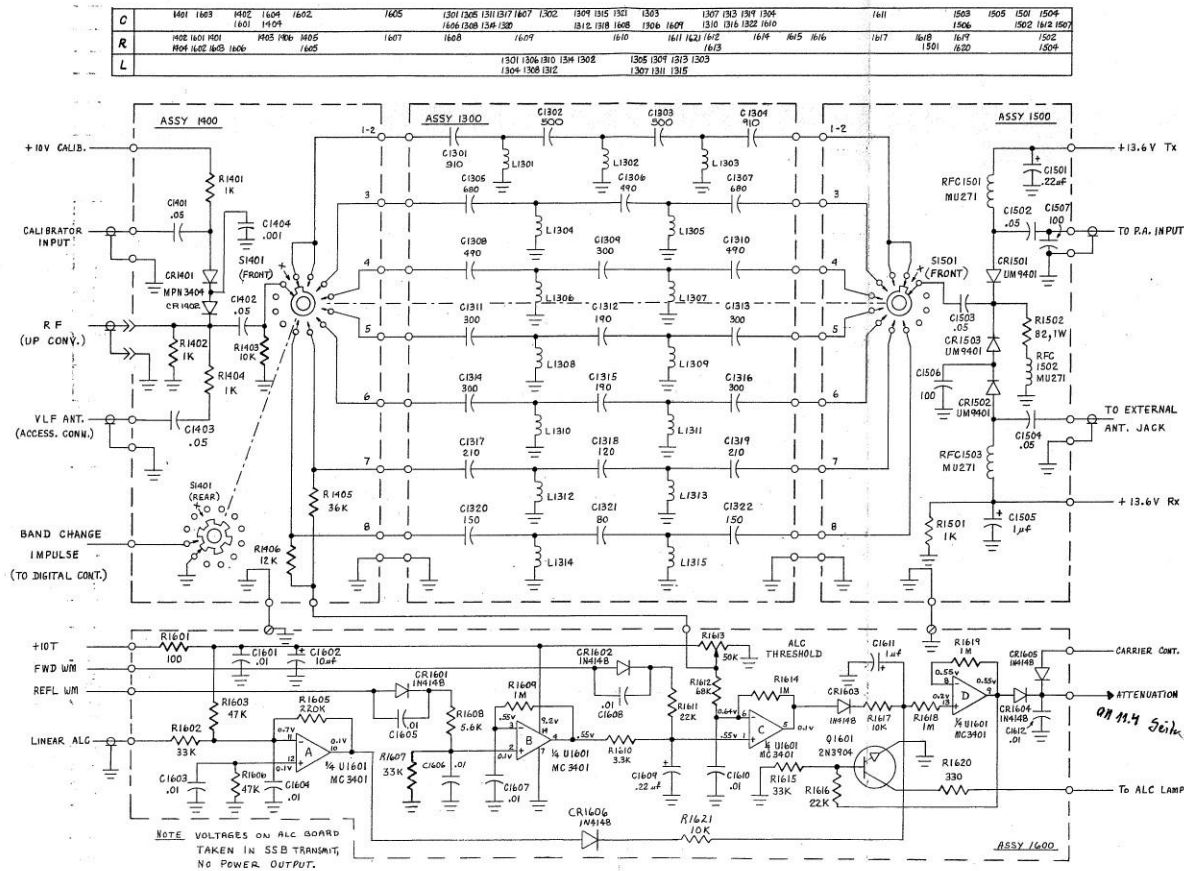


Fig. 2-28 High Pass Filter Module Schematic

C	1703	1902	1701 1707 1702 1801 1801 1802 1703 1713 1704 1714 1803 1818 1804 1705 1710 1706 1805 1813 1806 1711 1717 1712 1807 1818 1708 1718 1719 1719 1806 1815 1807 1715 1720 1716 1810 1816	2003 2004	1701 19006	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.

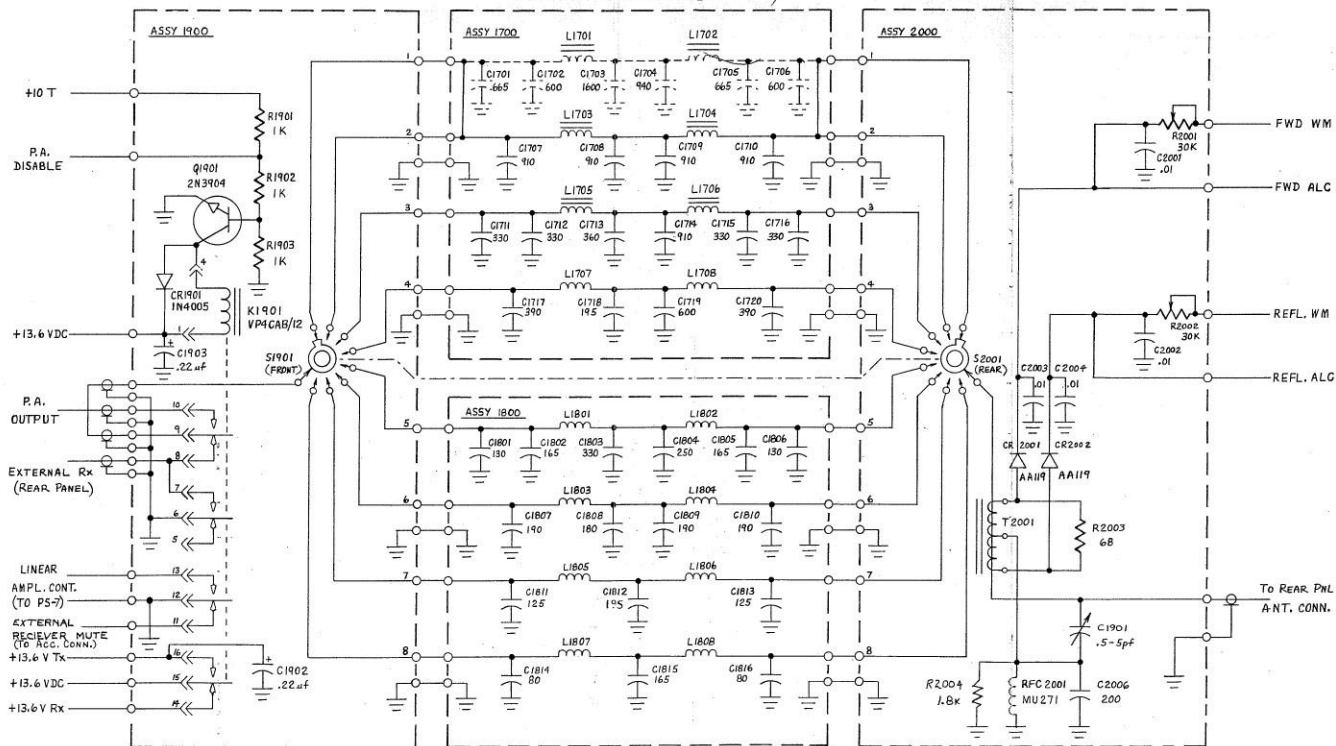


Fig. 2-32 Low Pass Filter Module Schematic

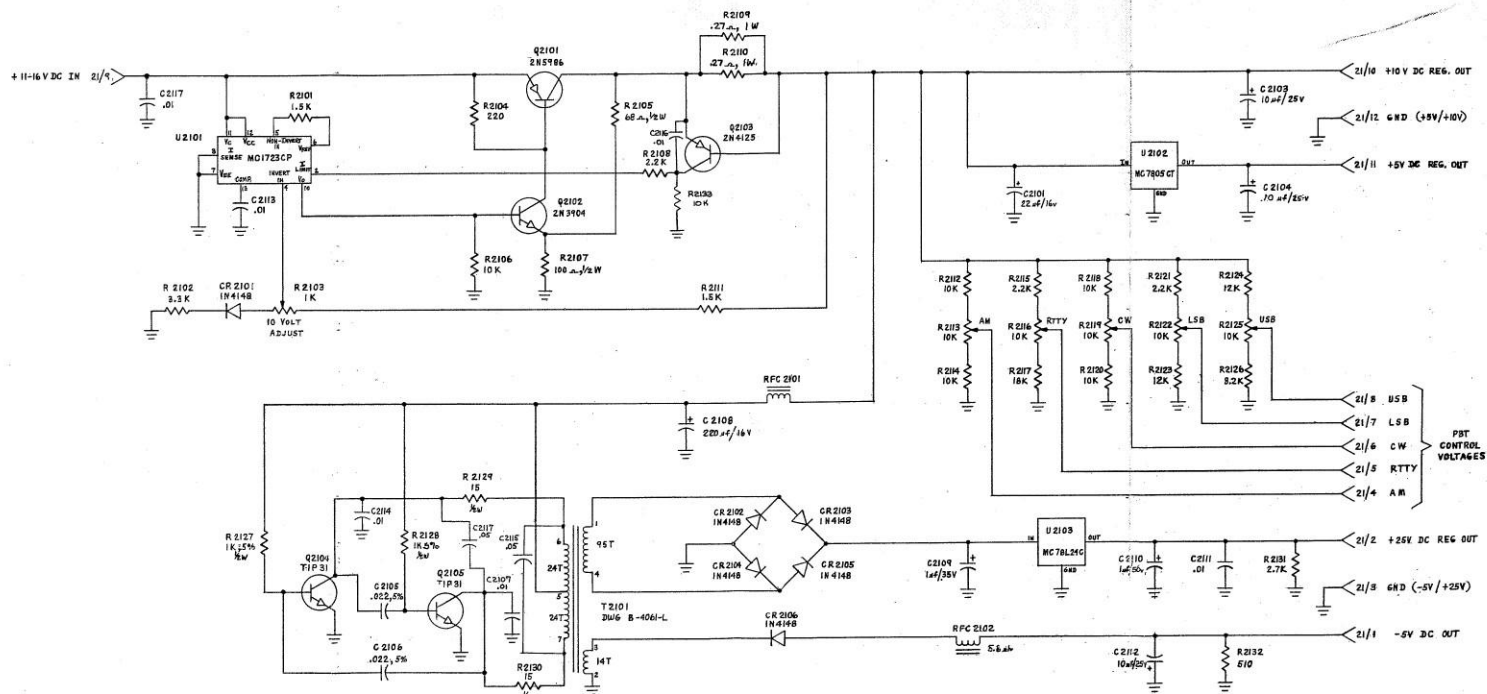
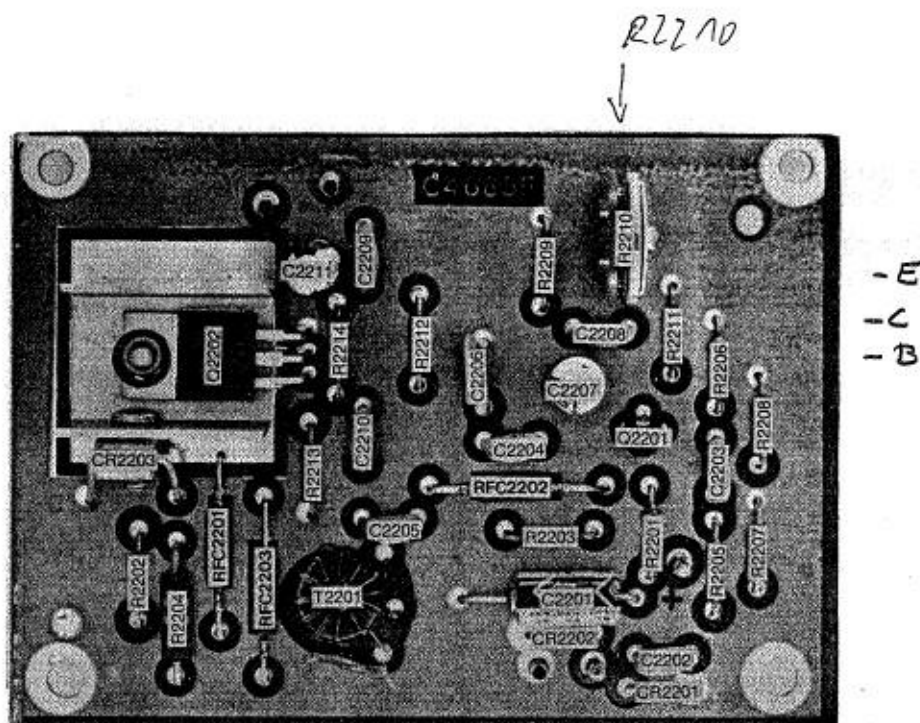


Fig. 2-34 Power Supply Board Schematic



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

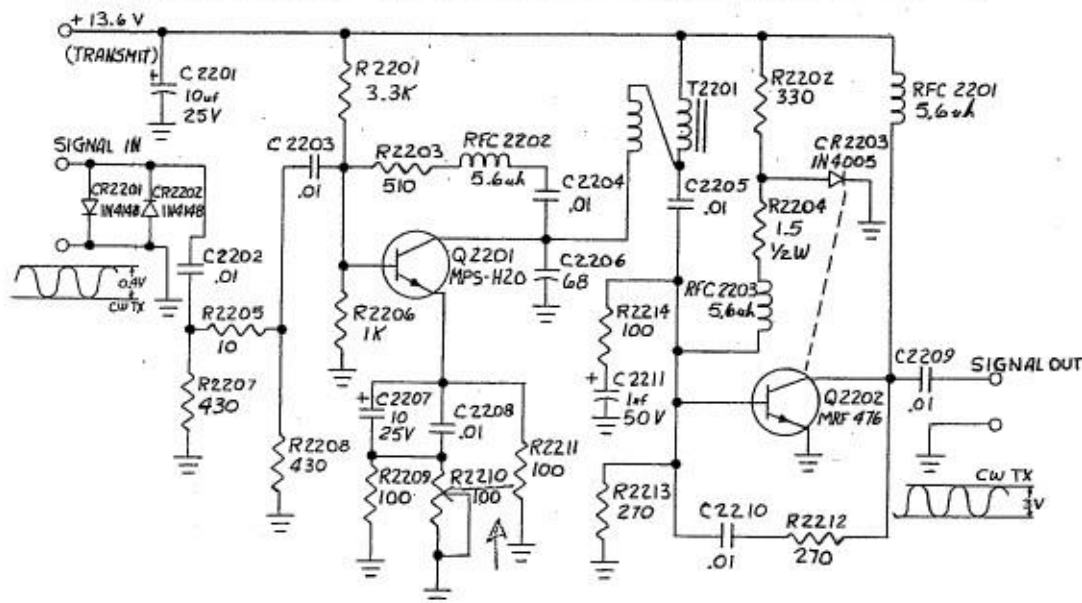
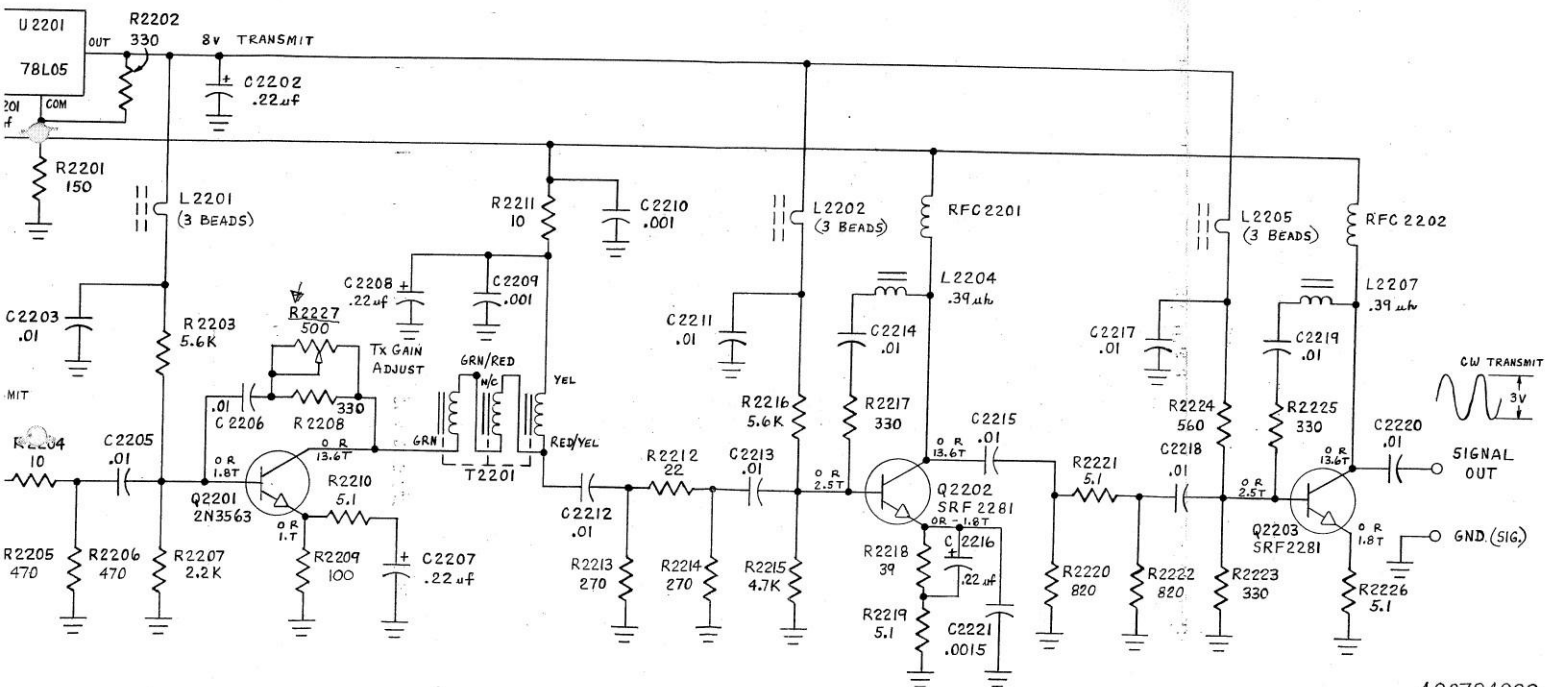


Fig. 2-36 Predriver Board #2 Pictorial & Schematic

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
2204		2207	2201	2209	2227					2216	2219	2224	2223	2225	2226
										2202	2204		2205	2207	



408794000

Fig. 2-37 Predriver 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 2319	2309	2325 2326	2327
R	2301	2302 2303	2313 2314		2305 2306	2304			2307	2317	2309 2311	2315 2316		2318 2319	2312			
L	2301	2302				2304	2305						2307 2308					

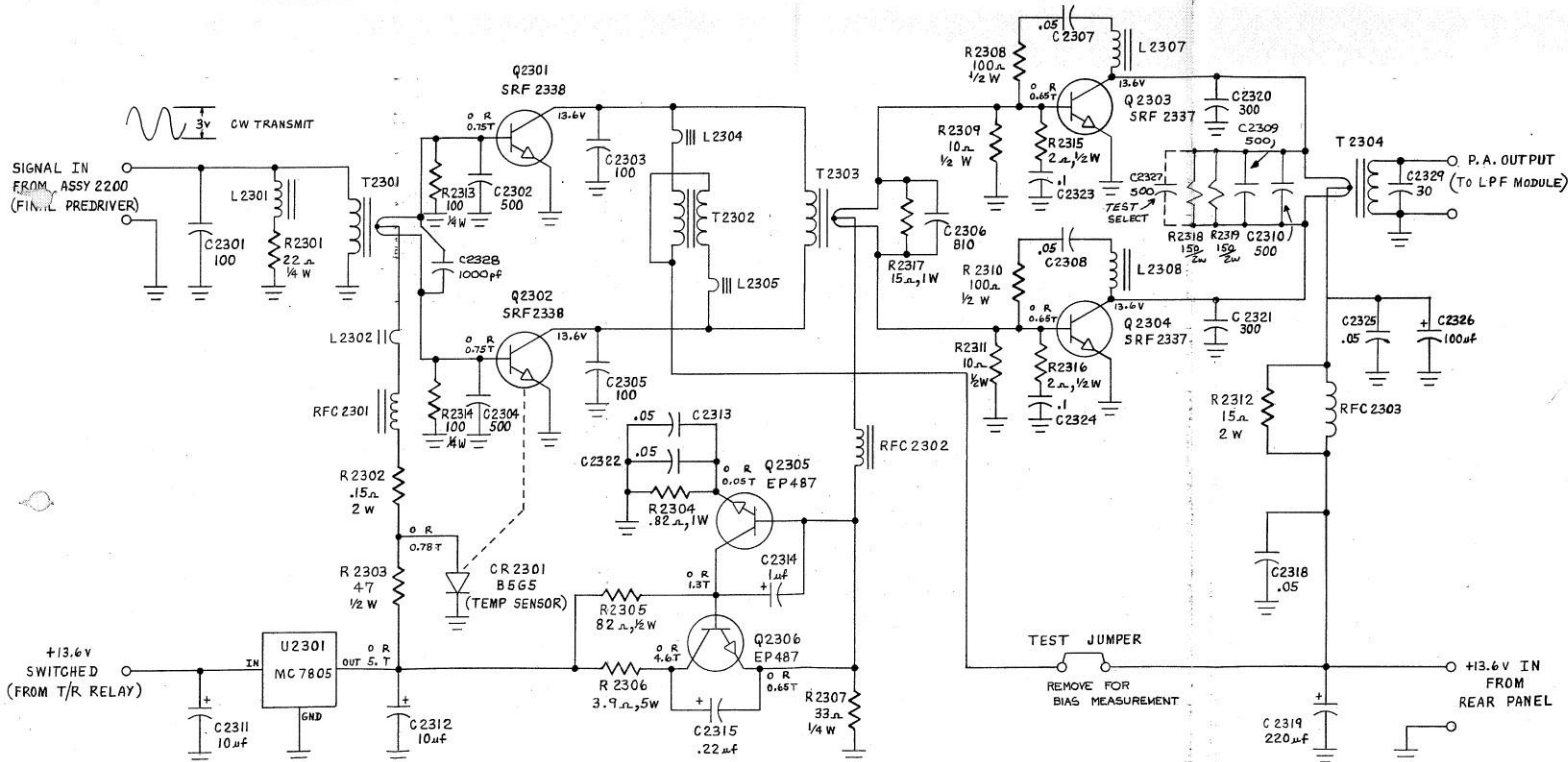
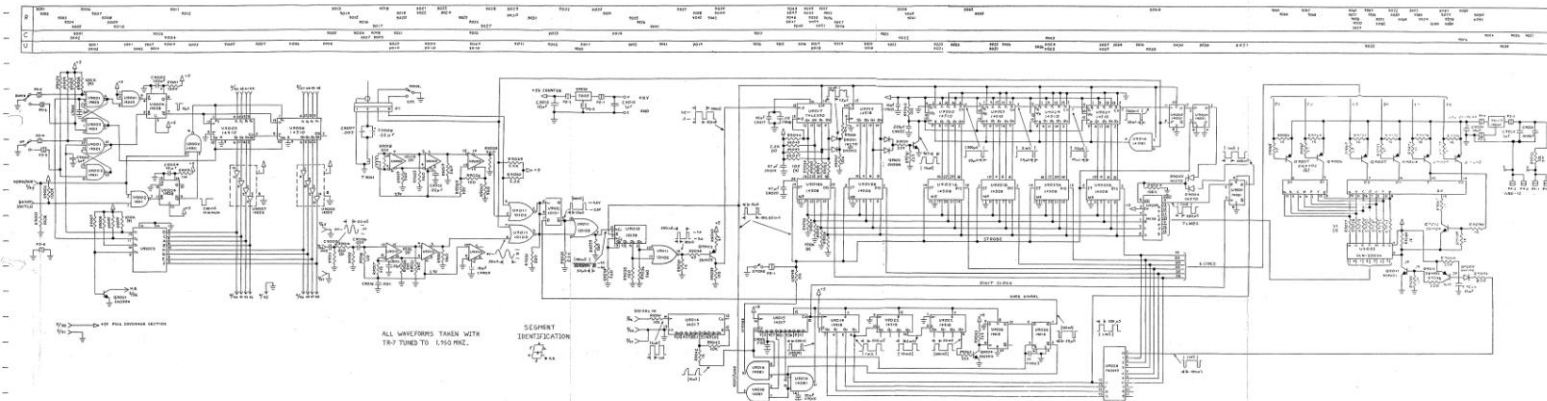


Fig. 2-38 Power Amplifier Schematic



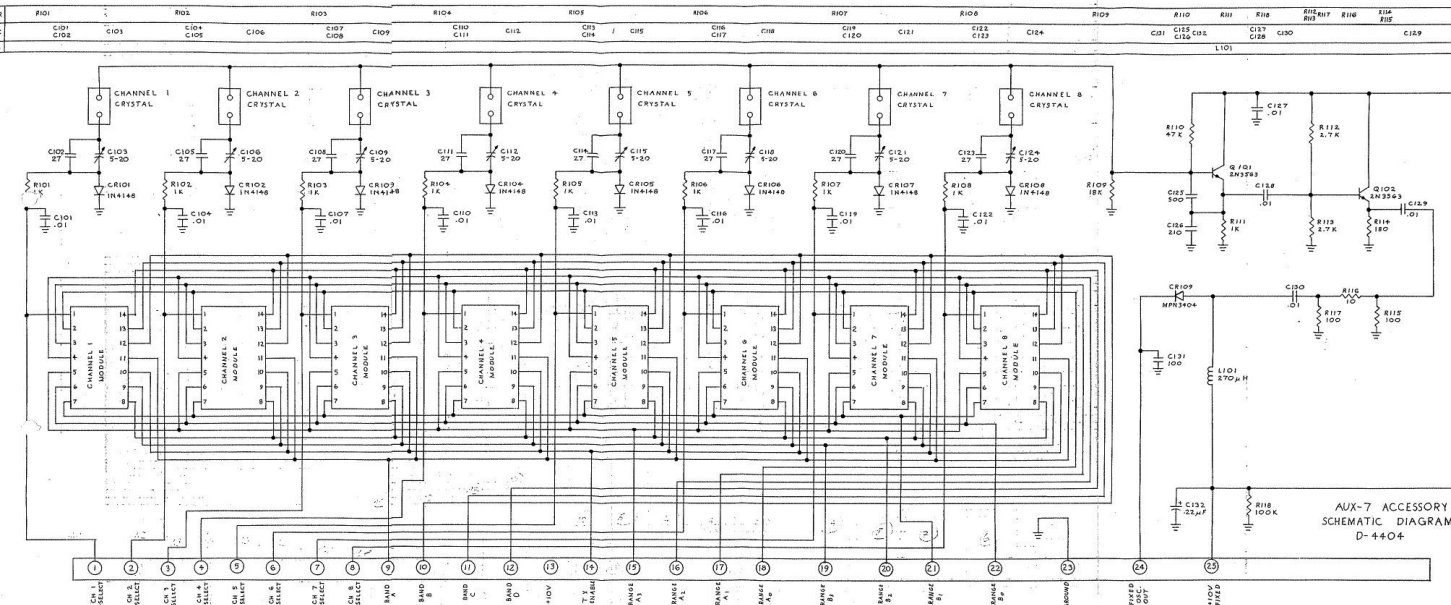
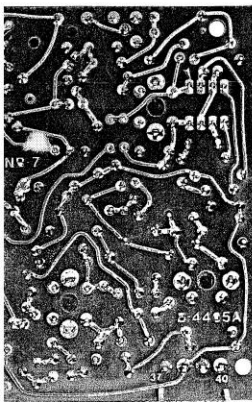
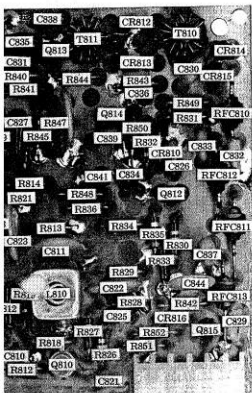
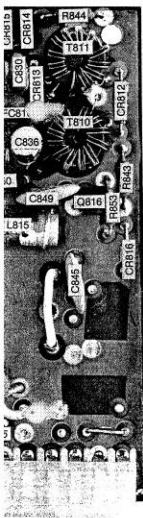


Fig. 4-4 AUX-7 Board Schematic



4-19



R	B10 B53	B24 B12	B11 B12	B18 B54	B13 B20	B19 B20	B14 B20	B29 B42	B30 B31	B31 B32	B23 B33	B15 B51	B34 B52	B16 B35	B36 B50	B37 B37	B17 B15	B38 B40	B41 B41	B45 B48
C	B10 B48	B47 B48	B21	B45 B46	B47 B50	B22 B42	B13 B30	B32 B32	B23 B37	B24 B37	B14 B15	B43 B38	B24 B44	B33 B35	B38 B40	B41 B41	B45 B48	B45 B48	B45 B48	B45 B48
L	B13	B15	B14	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10	B10

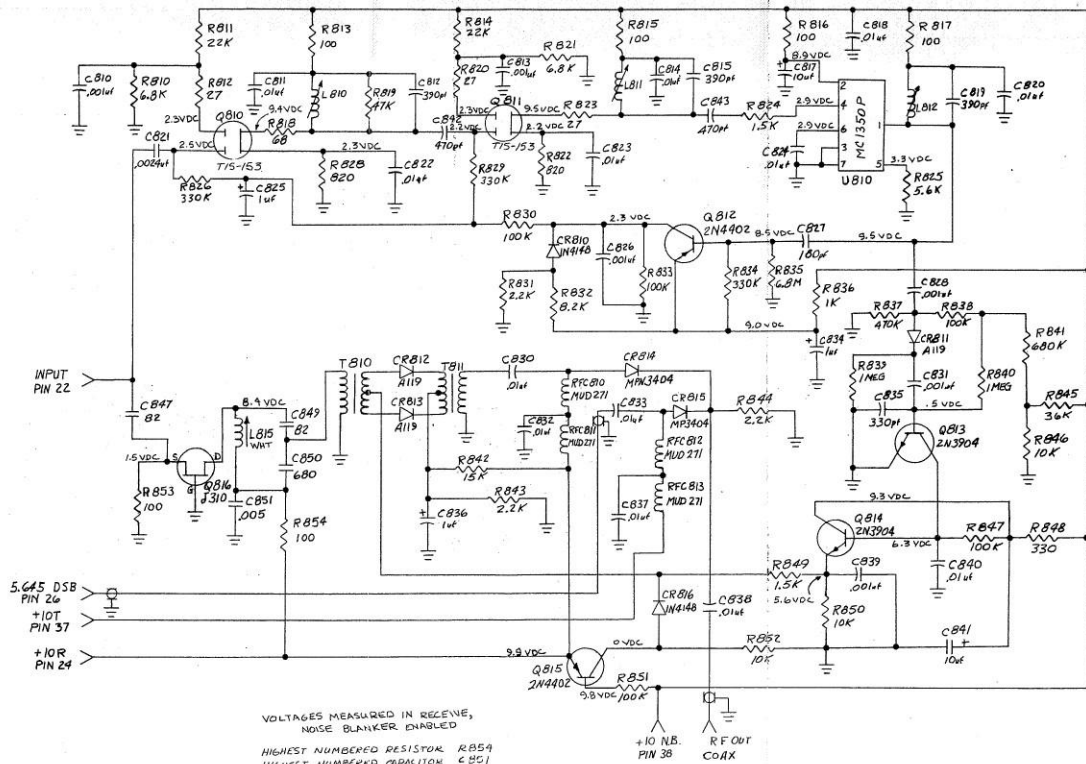


Fig. 4-8 NB-7 Board Schematic - Version 2