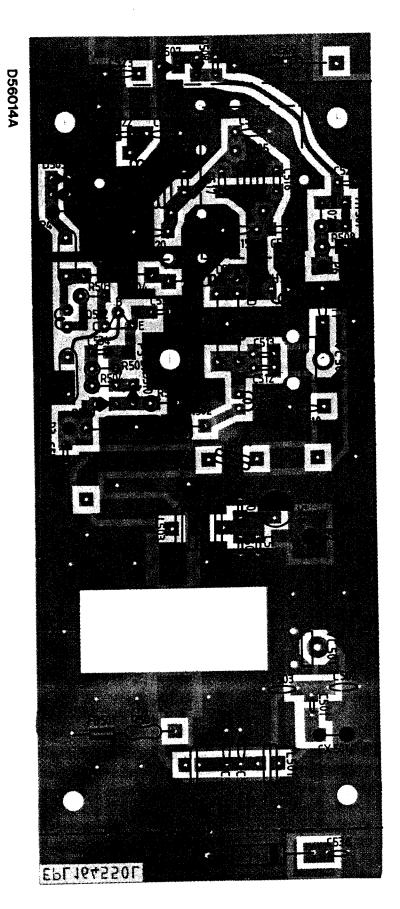
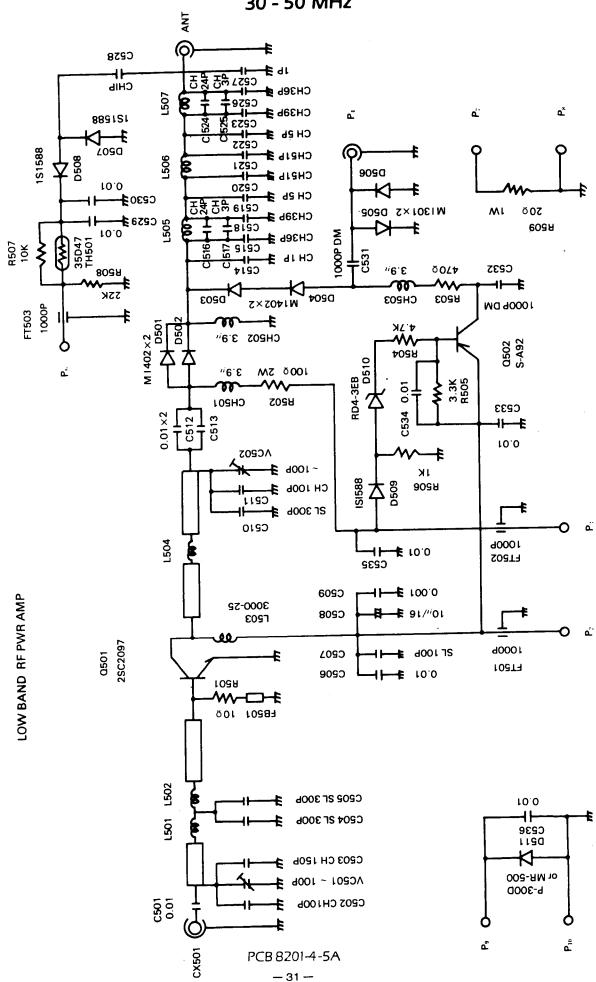
## LAYOUT FINAL POWER AMP BOARD



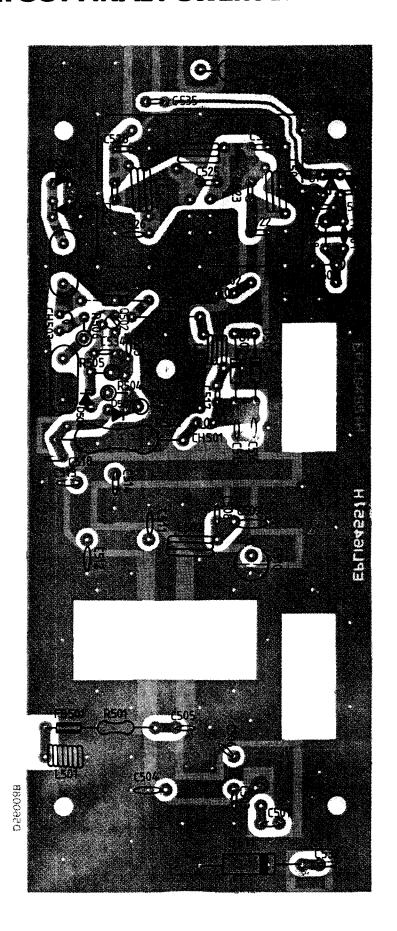
PCB 8201-4-5A

## SCHEMATIC FINAL POWER AMP BOARD

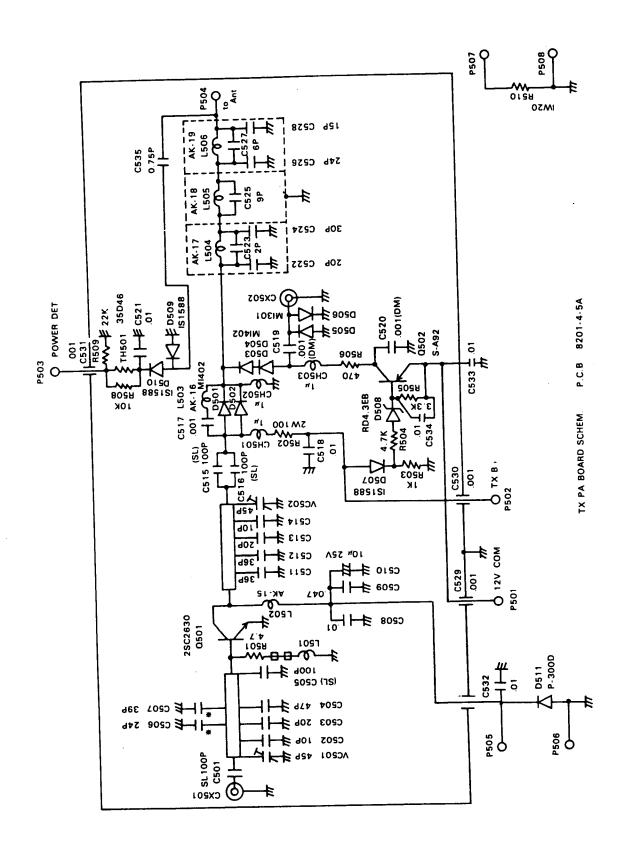
30 - 50 MHz



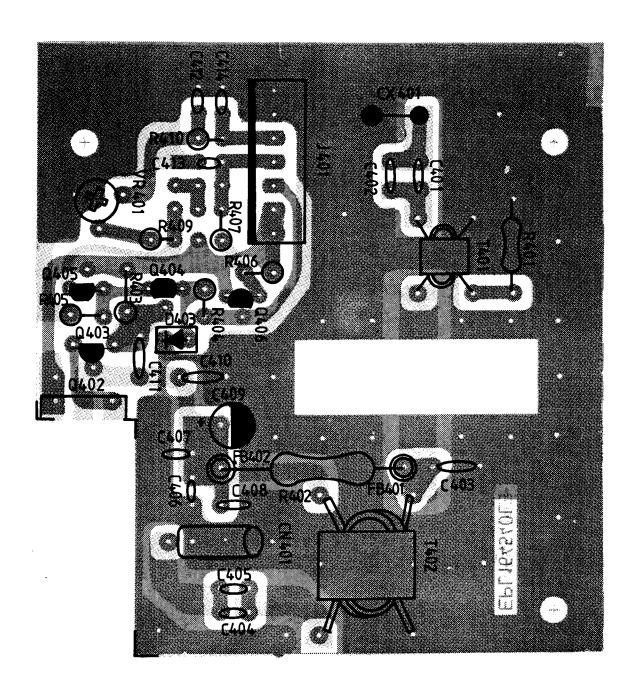
### LAYOUT FINAL POWER AMP BOARD



#### SCHEMATIC FINAL POWER AMP BOARD 136 - 174 MHz

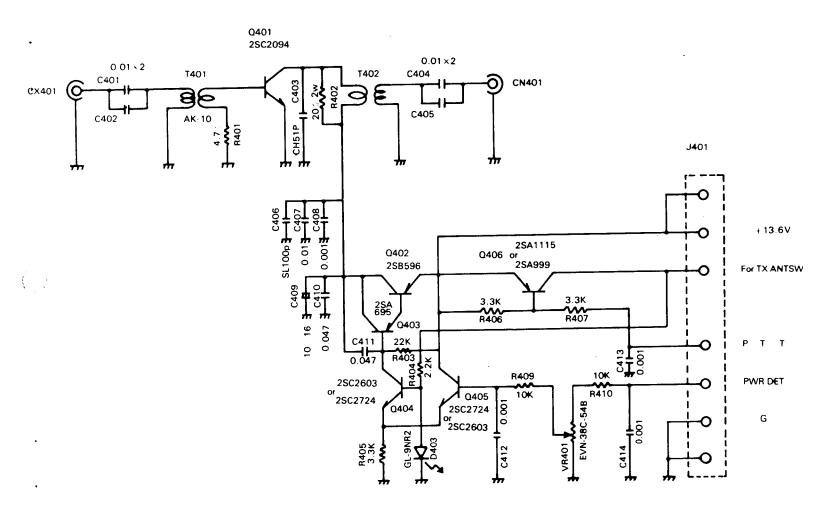


#### LAYOUT DRIVER BOARD

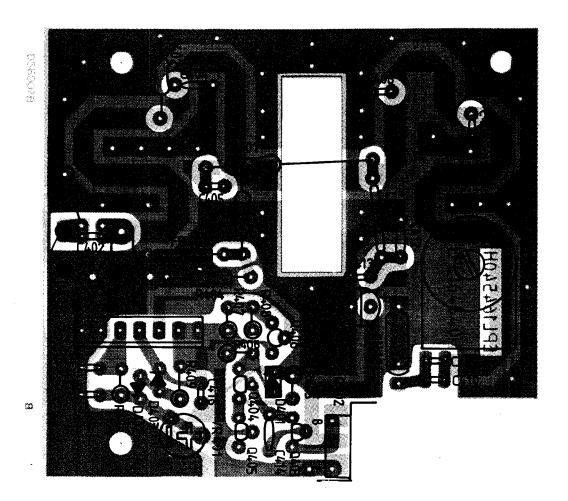


#### SCHEMATIC DRIVER BOARD 30 - 50 MHz

LOW BAND DRIVER & APC AMP



#### LAYOUT DRIVER BOARD

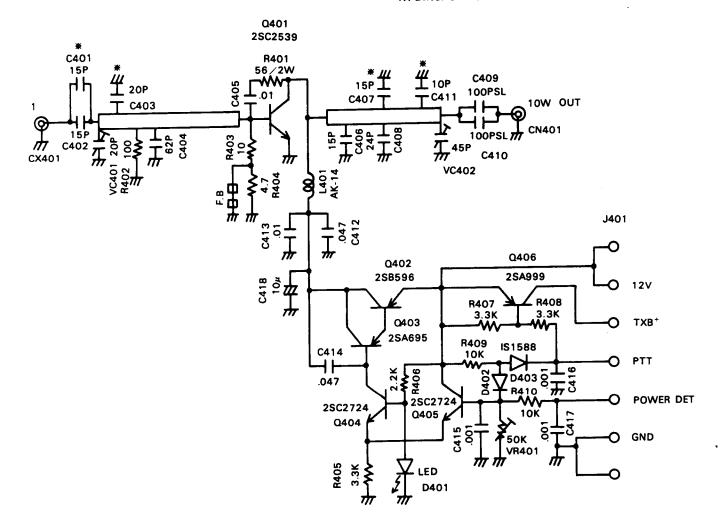


### SCHEMATIC DRIVER BOARD

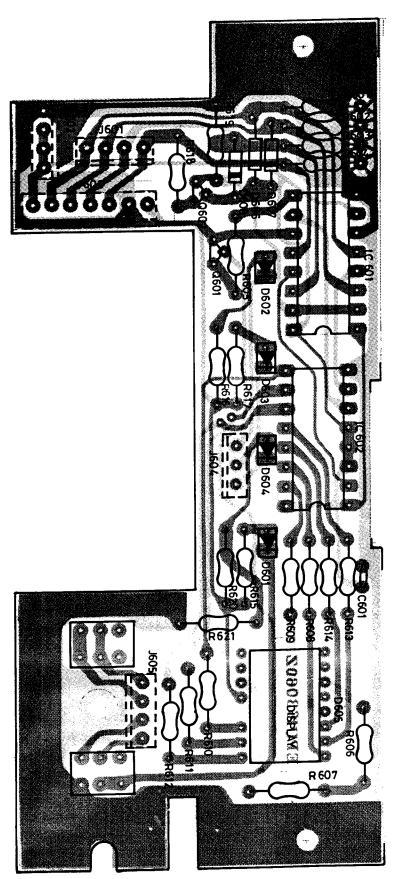
136 - 174 MHz

TX Driver & APC Board Schem.

PCB 8201-4-4A

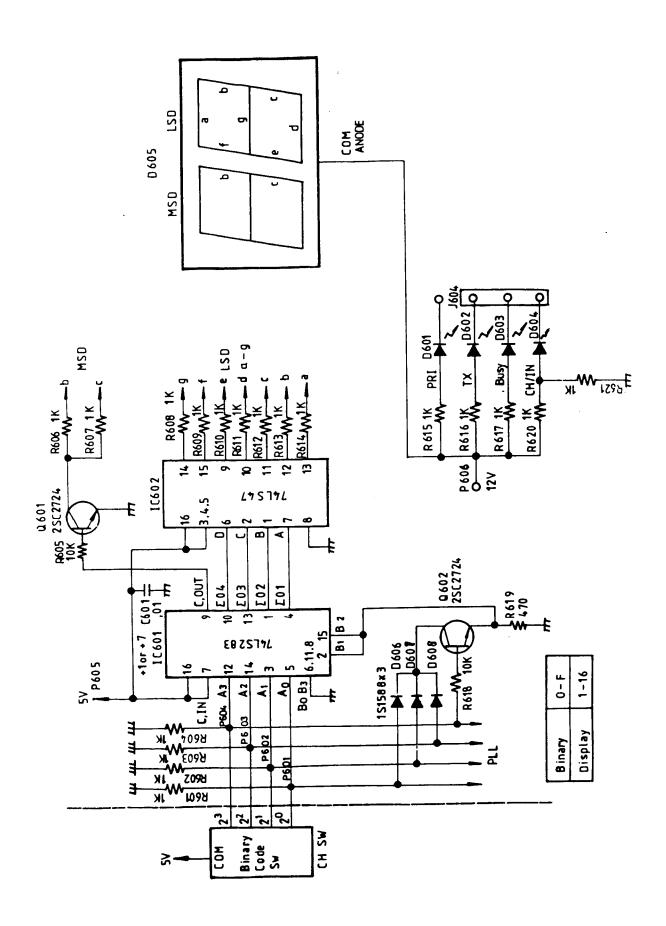


### LAYOUT DISPLAY BOARD

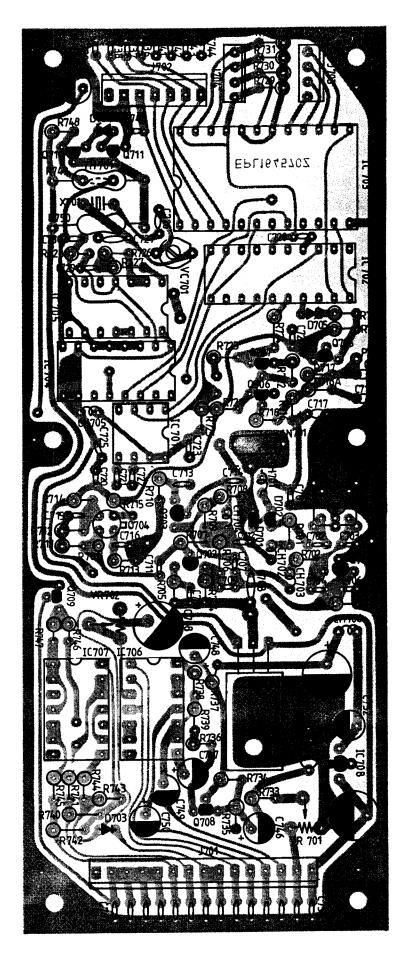


PCB 8201-4-8

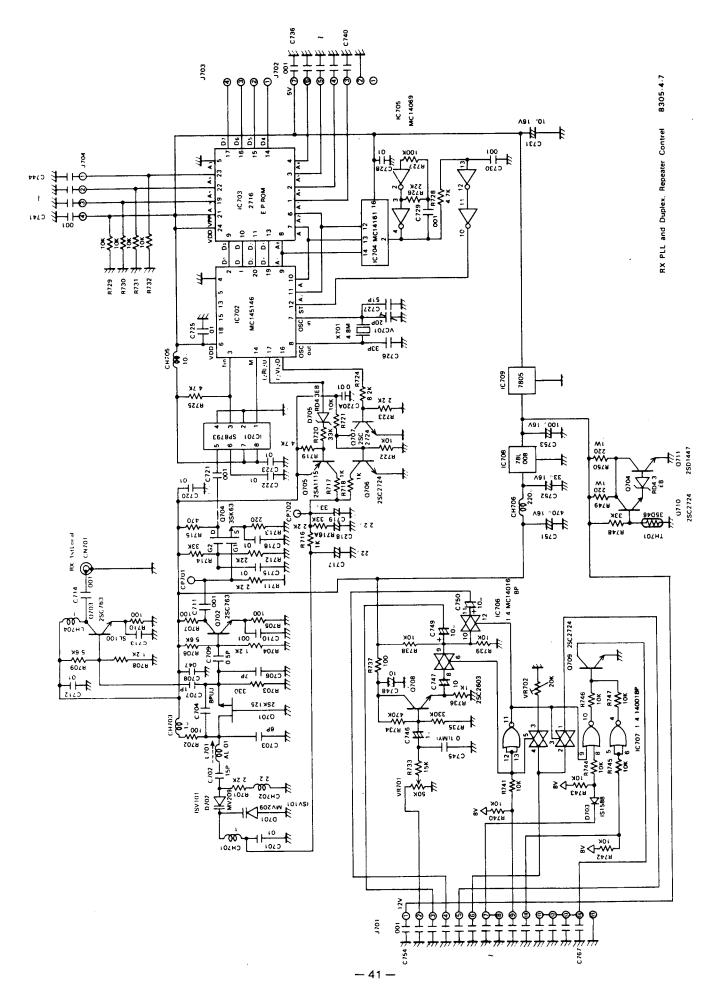
### SCHEMATIC DISPLAY BOARD



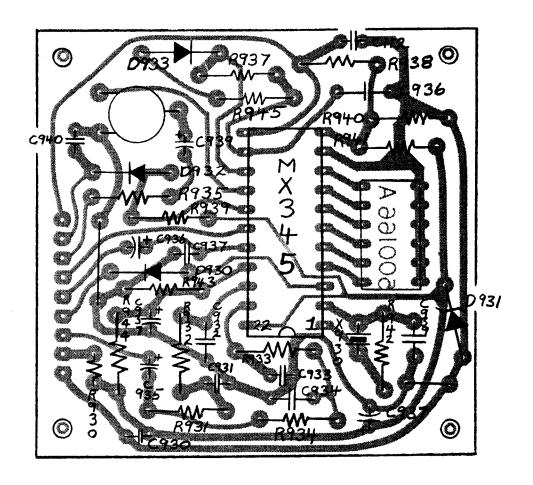
### LAYOUT RECEIVER/PLL BOARD



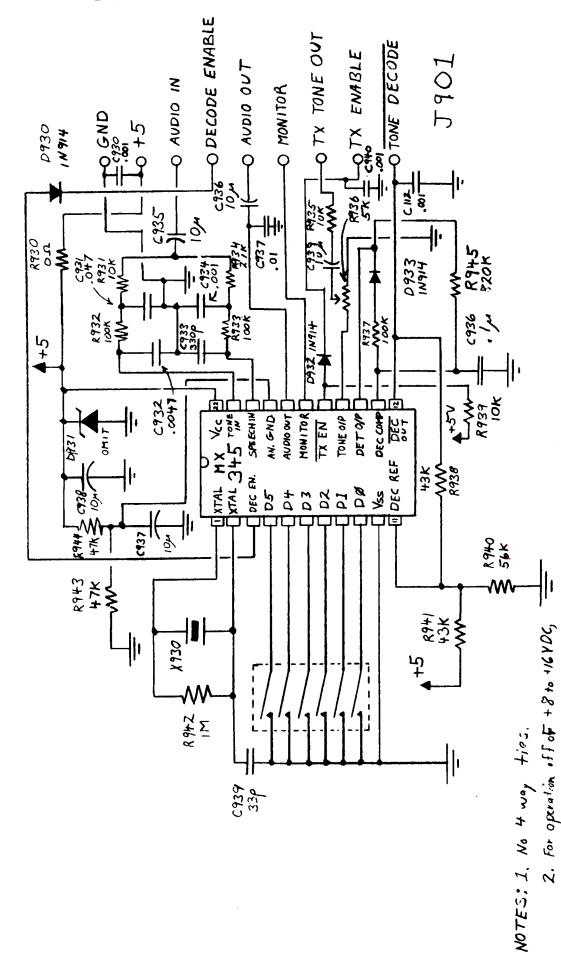
### SCHEMATIC RECEIVER PLL/REPEATER CONTROL



#### **LAYOUT SINGLE TONE BOARD**



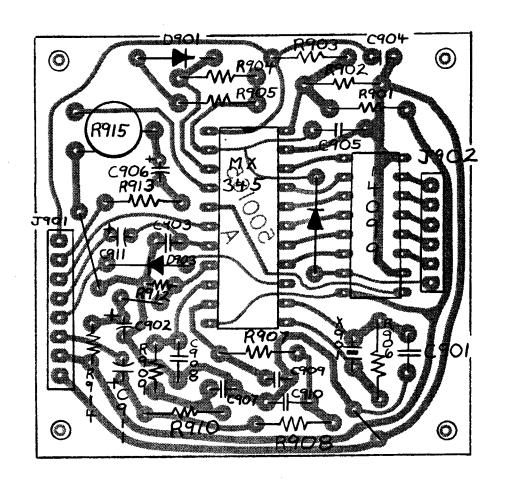
#### SCHEMATIC SINGLE TONE BOARD



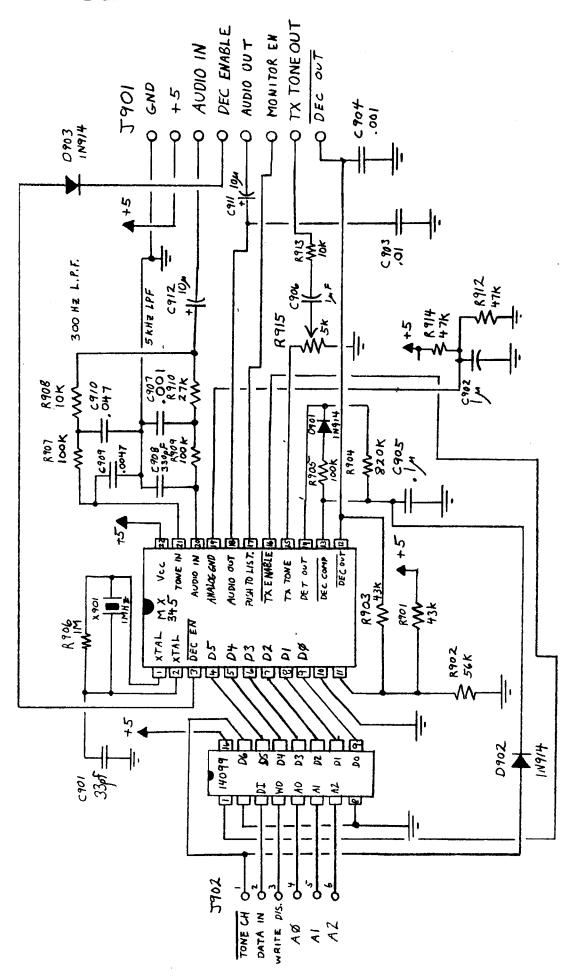
nj

R100= 680, DIO2=144733

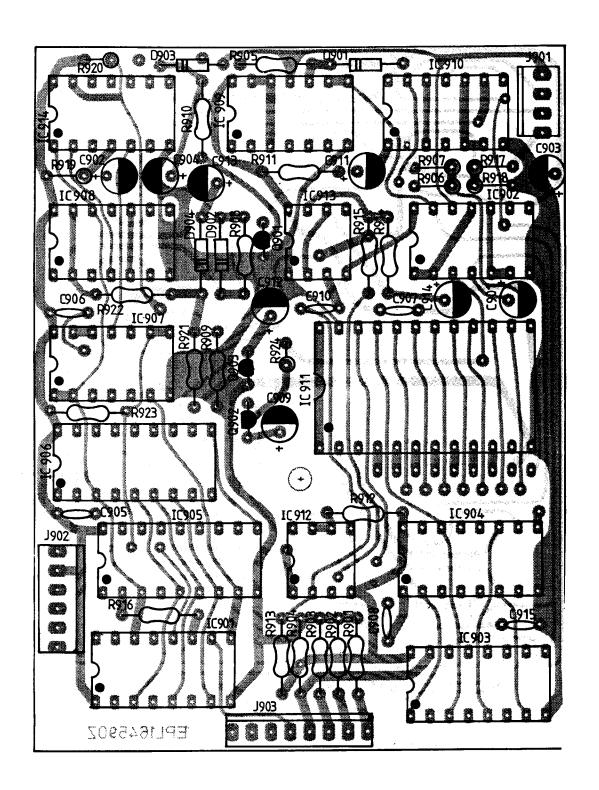
### LAYOUT MULTITONE BOARD



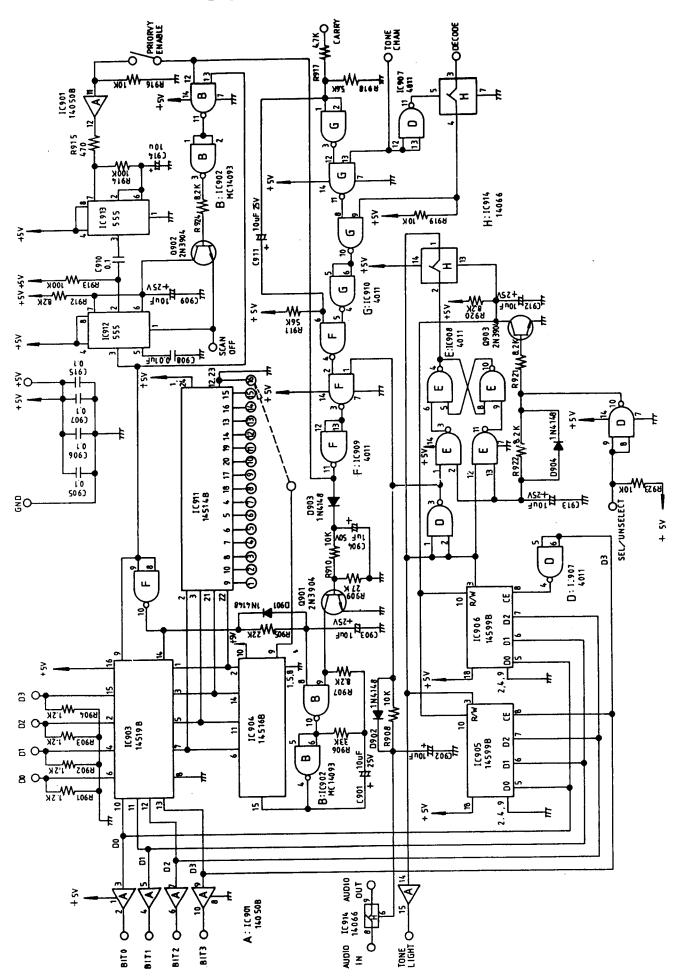
#### **SCHEMATIC MULTITONE BOARD**



#### LAYOUT SCAN BOARD



#### **SCHEMATIC SCAN BOARD**



# PLL/TX EXCITER PCB PARTS LIST

REF	TYPE	DESCRIPTION	DADT #	REF	TYPE	DESCRIPTION	PART #
IC201	IC IC	DESCRIPTION SP8702	PART #	KEF		RF Pre-driver	
202	IC	SP8793 MC145146	07-8793 07-5146		Heat Sink	nr Pre-ariver	65-0002
203	iC	2716 with Socket		CN201	RF connector	Minipin jack A1	35-0001
204	iC	MC14161BP	07-4161	202	RF connector	Minipin jack A1	35-0001
205	iC	MC14069UBP	07-4069	1 202	THE CONTROCTOR	mmpir juok rei	00 0001
206	ic	TA78L008	07-8008	J201	PCB connector		36-0001
207	IC	MC1458	07-1458	202	PCB connector		36-0001
208	IC	7805	07-7805	203	PCB connector		36-0001
				204	PCB connector		36-0001
Q201	FET	25K125	11-0125	205	PCB connector		36-0001
202	Transistor	25C763	09-0763	71,1004	<b></b>	05040	45.0540
203 204	FET	25K125	09-0125	TH201	Thermistor	35D46	15-3546
204	Transistor FET	25C763 35K63GR	09-0763 11-0063	R201	1/4 w Resistor	2.2K	01-2220
206	Transistor	25A1115	10-1115	202	1/4 w Resistor	100	01-2220
207	Transistor	25C2724	09-2724	202	1/4 w Resistor	330	01-3310
208	Transistor	25C2724	09-2724	204	1/4 w Resistor	1.2K	01-1220
209	Transistor	25C2026	09-2026	205	1/4 w Resistor	5.6K	01-5620
210	Transistor	25C2053	09-2053	206	1/4 w Resistor	100	01-1010
211	Transistor	25C730	09-0730	207	1/4 w Resistor	3.3K	01-3320
212	Transistor	25A1115	10-1115	208	1/4 w Resistor	2.2K	01-2220
213	Transistor	25A1115	10-1115	209	1/4 w Resistor	100	01-1010
214	Transistor	25C2724	09-2724	210	1/4 w Resistor	330	01-3310
215	Transistor	25D355	09-0355	211	1/ w Resistor	10K	01-1030
216 217	Transistor Transistor	25A1115	10-1115 0 <del>9-</del> 2724	212 213	¼ w Resistor ¼ w Resistor	10K 1.2K	01-1030
211	11411515101	25C2724	09-2724	213	1/4 w Resistor	5.6K	01-1220 01-5620
D201	Vari-Cap	MV209	22-0209	215	1/4 w Resistor	100	01-3020
202	Vari-Cap	MV209	22-0209	216	1/4 w Resistor	100	01-1010
203	Vari-Cap	MV209	22-0209	217	1/4 w Resistor	22K	01-2230
204	Vari-Cap	MV209	22-0209	218	1/4 w Resistor	2.2K	01-2220
205	Vari-Cap	MV201	22-0201	219	1/4 w Resistor	220	01-2210
206	Vari-Cap	MV201	22-0201	220	1/4 w Resistor	33K	01-3330
207	Zener	RD4.3EB	25-0430	221	1/4 w Resistor	470	01-4710
208	Diode	IS1588	05-1588	222	1/4 w Resistor	4.7K	01-4720
209 210	Zener Zener	RD5.6EB	25-0560	223 224	¼ w Resistor ¼ w Resistor	1K 1K	01-1020 01-1020
210	Zener	RD5.6EB RD4.3EB	25-0560 25-0430	224 225	1/4 w Resistor	1K	01-1020
212	Diode	IS1588	05-1588	226	1/4 w Resistor	10K	01-1030
213	Diode	IS1588	05-1588	227	1/4 w Resistor	10K	01-1030
			00 ,000	228	1/4 w Resistor	68K	01-6830
T201	Transformer	AK-10	23-1010	229	1/4 w Resistor	10K	01-1030
202	Transformer	AK-10	23-1010	230	1/4 w Resistor	2.2K	01-2220
203	Transformer	AK-11	23-1011	231	1/4 w Resistor	8.2K	01-8220
1.001		41.04	00 1101	232	1/ w Resistor	2.2K	01-2220
L201 202	•	AL-01 AL-02	23-1101	233	¼ w Resistor ¼ w Resistor	1K 100	01-1020 01-1010
202		AL-02	23-1102	234 235	14 w Resistor	1.5K	01-1010
CH201	Inductor	2.2µH	03-0022	236	1/4 w Resistor	330	01-3310
202	Inductor	1μH	03-0010	237	1/4 w Resistor	22	01-2200
203	Inductor	1 <i>μ</i> Η	03-0010	238	1/4 w Resistor	10	01-1000
204	Inductor	.68µH	03-0007	239	1/4 w Resistor	1K	01-1020
205	Inductor	.68µH	03-0007	240	1/4 w Resistor	47 470	01-4700
206	Inductor	2.2µH	03-0022	241	1/4 w Resistor	47 4R7	01-4700
207	Inductor	.68µH	03-0007	242	1/4 w Resistor	47 4R7	01-4700
208 209	Inductor Inductor	1µH 100mH	03-0010 03-1040	243 244	¼ w Resistor ¼ w Resistor	220 221 10K 103	01-2210 01-1030
210	Inductor	220µH	03-1040	244 245	¼ w Resistor	4.7K 472	01-1030
211	Inductor	220μΠ 10μΗ	03-2210	246	1/4 w Resistor	10K 103	01-1030
		, upa. 1	JU 1000	247	1/4 w Resistor	2.2K 222	01-2220
VC201	Variable capacitor	20Pf	22-2000	248	1/4 w Resistor	4.7K 472	01-4720
				249	1/4 w Resistor	10K 103	01-1030
VR201	Variable Resistor	IK POT	21-1020	250	1/4 w Resistor	10K 103	01-1030
202	Variable Resistor	IK POT	21-1020	251	1/4 w Resistor	10K 103	01-1030
V201	V'tal	4 OMU- HO404:	10.0000	252	1/4 w Resistor	10K 103	01-1030
X201	X'tal	4.8MHz HC18/u	12-0002	253	¼ w Resistor	22K 223	01-2230

 	·		<del> </del>				DADT #	
REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #	
R254	1/4 w Resistor	100K 104	01-1040		Tantalum capacitor	3.3µF	02-3355	
255	1/4 w Resistor	4.7K 472	01-4720	234	Tantalum capacitor	.33µF	02-3345	
256	1/4 w Resistor	2.2K 222	01-2220	235	Ceramic capacitor	CH 30P	02-3001	
257	1/4 w Resistor	470 471	01-4710	236	Ceramic capacitor	.01μF	02-1030	
258	1/4 w Resistor	6.8K 682	01-6820	237	Ceramic capacitor	CH 30P	02-3001	
259	1/4 w Resistor	1.2K 122	01-1220	238	Ceramic capacitor	.01μF	02-1030	
260	1/4 w Resistor	47K 473	01-4730	239	Ceramic capacitor	.01µF	02-1030	
261	1/4 w Resistor	1K 102	01-1020	240	Ceramic capacitor	SL 100P	02-1012	
262	1/4 w Resistor	820 821	01-8210	241	Ceramic capacitor	.01μF	02-1030	
263	1/4 w Resistor	82K 823	01-8230	242	Ceramic capacitor	.01μF	02-1030	
264	1/4 w Resistor	4.7K 472	01-4720	243	Ceramic capacitor	.01μF	02-1030	
265	1/4 w Resistor	4.7K 472	01-4720	244	Ceramic capacitor	.01 <i>µ</i> F	02-1030	
266	1/4 w Resistor	33K 333	01-3330	245	Ceramic capacitor	.01µF	02-1030	
267	1 w Metal Film	220 221	01-2212	246	Ceramic capacitor	103	02-1030	
268	1 w Metal Film	220 221	01-2210	247	Electrolytic	.47μF 50	02-4748	
269	1/4 w Resistor	25UJ 332 3.3K	01-3320	ļ	capacitor			
270	1/4 w Resistor	25UJ 103 10K	01-1030	248	Ceramic capacitor	CH 33P	02-3301	
271	1/4 w Resistor	25UJ 103 10K	01-1030	249	Ceramic capacitor	CH 51P	02-5101	
272	1/4 w Resistor	25UJ 103 10K	01-1030	250	Electrolytic	10µF 16V	02-1066	
273	1/4 w Resistor	25UJ 103 10K	01-1030		capacitor			
2,0	/4 <b>W</b> 110510101			251	Ceramic capacitor	.001μF	02-1020	
C201	Ceramic capacitor	15P	02-1599	252	Ceramic capacitor	.001μF	02-1020	
202	Ceramic capacitor	.01µF	02-1030	253	Ceramic capacitor	SL 100P	02-1012	
203	Ceramic capacitor	CH 6P	02-0601	254	Electrolytic	1μF 50V	02-1058	
203	Ceramic capacitor	8P	02-0899		capacitor			
205	Ceramic capacitor	.01μF	02-1030	255	Ceramic capacitor	SL 100P	02-1012	
205	Ceramic capacitor	CH 7P	02-0701	256	Electrolytic	4.7μF	02-4753	
207	Ceramic capacitor	SL 0.5P	02-0052		capacitor			
208	Ceramic capacitor	CH 1P	02-0101	257	Mylar	.022 <i>µ</i> F	02-2233	
209	Ceramic capacitor	01μF	02-1030	258	Ceramic capacitor	SL 100P	02-1012	
210	Ceramic capacitor	01μF	02-1030	259	Electrolytic	33µF 16V	02-3366	
211	Electrolytic	10μF 16V	02-1066		capacitor			
211	capacitor			260	Electrolytic	3.3µF 25V	02-3357	
212	Ceramic capacitor	.001µF	02-1020	l	capacitor			
213	Ceramic capacitor	.001µF	02-1020	261	Mylar	.056µF	02-5633	
214	Ceramic capacitor	.01μF	02-1030	262	Mylar	.056µF	02-5633	
215	Ceramic capacitor	10P	02-1099	263	Mylar	.056µF	02-5633	
216	Ceramic capacitor	CH 2P	02-0201	264	Mylar	.056µF	02-5633	
217	Ceramic capacitor	CH 5P	02-0501	265	Electrolytic	.47µF 50V	02-4748	
218	Ceramic capacitor	8P	02-0899	l	capacitor			
219	Ceramic capacitor	CH 7P	02-0701	266	Ceramic capacitor	.01μF	02-1030	
	Ceramic capacitor	CH 1P	02-0101	267	Ceramic capacitor	.01μF	02-1030	
221	Ceramic capacitor	.001µF	02-1020	268	Ceramic capacitor	.01 <i>µ</i> F	02-1030	
222	Ceramic capacitor	.001μF	02-1020	269	Electrolytic	470µF 16V	02-4776	
223	Ceramic capacitor	.001µF	02-1020		capacitor			
224	Ceramic capacitor	.01µF	02-1030	270	Electrolytic	100µF 25V	02-1077	
225	Ceramic capacitor	.01µF	02-1030		capacitor			
226	Ceramic capacitor	.001µF	02-1020	I		<b></b> -	00.4600	
227	Ceramic capacitor	.01µF	02-1030	C225A	Ceramic capacitor	.01μF	02-1030	
228	Ceramic capacitor	.01μF	02-1030	C264A	Electrolytic	.47μ 50V	02-4748	
229	Ceramic capacitor	CH 10P	02-1001	1	capacitor			
230	Ceramic capacitor	.01µF	02-1030	C231A	Ceramic capacitor	.01µF	02-1030	
231	Ceramic capacitor	.01 <i>µ</i> F	02-1030	C247A	Ceramic capacitor	.01µF	02-1030	
232	Tantalum capacitor	.22µF	02-2245	1				

## RECEIVER PCB PARTS LIST

REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
Q101	Transistor	35K63	11-0063	R145	Resistor	10K	01-1030
102	Transistor	25K125	11-0125	146	Resistor	33K	01-3330
103	Transistor	25C763	09-0763	147	Resistor	220K	01-2240
104	Transistor	25C1674	09-1674	148	Resistor	10K	01-1030
105	Transistor	25C2724	09-2724	149	Resistor	100	01-1010
106	Transistor	25C763	09-0763	150	Resistor	3.3K	01-3320
107	Transistor	25C2724	09-2724	151	Resistor	15K	01-1530
108	Transistor	25C2724	09-2724	152	Resistor	2.2	01-0022
109	Transistor	25A999	10-0999	153	Resistor	220	01-2210
110	Transistor	25C2724	09-2724	154	Resistor	1	01-0010
				155	Resistor	4.7K	01-4720
IC101	IC .	M51177L	07-1177	156	Resistor	10K	01-1030
102	IC	AN829	07-0829				
103	IC	4069UBP	07-4069	C101	Ceramic capacitor	CH 8P	02-0801
104	IC	TDA2002 or 2003	07-2002	102	Ceramic capacitor	CH 2P	02-0201
105	IC	78L09	07-7809	103	Ceramic capacitor	CH 1P	02-0101
				104	Ceramic capacitor	CH 2P	02-0201
D101	Diode	IS1588	05-1588	105	Ceramic capacitor	CH 6P	02-0601
102	Diode	IS1588	05-1588	106	Ceramic capacitor	.01μF	02-1030
103	Diode	IS1588	05-1588	107	Ceramic capacitor	.001μF	02-1020
104	Diode	IS1588	05-1588	108	Ceramic capacitor	.01μF	02-1030
105	Diode	IS1588	05-1588	109	Ceramic capacitor	CH 2P	02-0201
106	Diode	IS1588	05-1588	110	Ceramic capacitor	CH 3P	02-0301
				111	Ceramic capacitor	SL 0.5P	02-0052
R101	Resistor	33ΚΩ	01-3330	112	Ceramic capacitor	CH 2P	02-0201
102	Resistor	15K	01-1530	113	Ceramic capacitor	CH 6P	02-0601
103	Resistor	47	01-4700	114	Ceramic capacitor	SL 0.5P	02-0052
105	Resistor	100	01-1010	115	Ceramic capacitor	CH 2P	02-0201
106	Resistor	1.5K	01-1520	116	Ceramic capacitor	CH 4P	02-0401
107	Resistor	47	01-4700	117	Ceramic capacitor	.01 $\mu$	02-1020
108	Resistor	1.2K	01-1220	118	Ceramic capacitor	$.01\mu$	02-1020
109	Resistor	150	01-1510	119	Ceramic capacitor	SL 100P	02-1012
110	Resistor	3.3K	01-3320	120	Ceramic capacitor	CH 6P	02-0601
111	Resistor	100	01-1010	121	Ceramic capacitor	CH 2P	02-0201
112	Resistor	100	01-1010	122	Ceramic capacitor	SL 0.5P	02-0052
113	Resistor	330	01-3310	123	Ceramic capacitor	CH 6P	02-0601
114	Resistor	1.5K	01-1520	124	Ceramic capacitor	CH 2P	02-0201
115	Resistor	100	01-1010	125	Ceramic capacitor	.01 $\mu$	02-1030
116	Resistor	1.5K	01-1520	126	Ceramic capacitor	.01 $\mu$	02-1030
117	Resistor	100	01-1010	127	Ceramic capacitor	$.01\mu$	02-1030
118	Resistor	22K	01-2230	128	Ceramic capacitor	CH 82P	02-8201
119	Resistor	6.8K	01-6830	129	Electrolytic	10μ 16 V	02-1066
120	Resistor	470	01-4710		capacitor		
121	Resistor	100	01-1010	130	Ceramic capacitor	CH 24P	02-2401
122	Resistor	10K	01-1030	131	Ceramic capacitor	$.01\mu$	02-1030
123	Resistor	22K	01-2230	132	Ceramic capacitor	.61µ	02-1030
124	Resistor	100	01-1010	133	Ceramic capacitor	.01µ	02-1030
125	Resistor	1K	01-1020	134	Ceramic capacitor	CH 47P	02-4701
126	Resistor	2.2K	01-2220	135	Ceramic capacitor	CH 100P	02-1011
127	Resistor	33K	01-3330	136	Ceramic capacitor	CH 100P	02-1011
128	Resistor	4.7K	01-4720	137	Ceramic capacitor	.01µ	02-1030 02-0101
129	Resistor	470	01-4710	138	Ceramic capacitor	CH 1P	02-0101
130	Resistor	100	01-1010	139	Ceramic capacitor	SL 100P	02-1012
131	Resistor	1K	01-1020	140	Ceramic capacitor	.047µ	02-4730
132	Resistor	2.2K	01-2220	141	Ceramic capacitor	.047μ	02-4730
133	Resistor	4.7K	01-4720	142	Ceramic capacitor	.01 $\mu$ .01 $\mu$	02-1030
134	Resistor	100	01-1010	143	Ceramic capacitor Electrolytic	.υ ιμ 4.7μ 16V	02-1030
135	Resistor	1K	01-1020	144	capacitor	<del>τ.τμ</del> 10 <b>ν</b>	5E 4700
136	Resistor	470	01-4710	145	Electrolytic	4.7μ 16V	02-4756
137	Resistor	2.2K	01-2220	145	capacitor	7.1µ 10¥	JE 11.50
138	Resistor	4.7K	01-4720	146	Ceramic capacitor	$.047\mu$	02-4730
139	Resistor	2.2K	01-2220	146	Electrolytic	10μ 16V	02-1066
140	Resistor	2.2M	01-2250	14/	capacitor	. ομ. 10 τ	000
141	Resistor Resistor	10K 47K	01-1030 01-4730	148	Ceramic capacitor	.01 $\mu$	02-1030
143							

REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
C149		$.0047\mu$	02-4723	C181	Ceramic capacitor	.001µ	02-1020
	Mylar film capacitor	$0047\mu$	02-4723	182	Ceramic capacitor	$.001\mu$	02-1020
151	,	$0.01\mu$	02-1033	183	Ceramic capacitor	$.001\mu$	02-1020
	Mylar film capacitor	$0.01\mu$	02-1033	1			
	Mylar film capacitor	$0022\mu$	02-2223	L101	Coils	AK-01	23-1001
	Mylar film capacitor	$0.01 \mu$	02-1033	102	Coils	AK-02	23-1002
155	Ceramic capacitor	$0.01\mu$	02-1030	103	Coils	AK-03	23-1003
156	Ceramic capacitor	$0.001\mu$	02-1020	104	Coils	AK-03	23-1003
157	Electrolytic	.47μ 50V	02-4748	105	Coils	AK-04	23-1004
	capacitor	•	•	106	Coils	AK-05	23-1005
158	Ceramic capacitor	$.01\mu$	02-1030	107	Coils	AK-06	23-1006
159	Ceramic capacitor	.01μ	02-1030	108	Coils	AK-07	23-1007
160	Ceramic capacitor	$.001\mu$	02-1020	109	Coils	AK-08	23-1008
161	Ceramic capacitor	.01 $\dot{\mu}$	02-1030	110	Coils	AK-09	23-1009
162	Electrolytic	1μ 50V	02-1058	111	Coils	BH169E	-23-2169
	capacitor	•		112	Coils	BH169E	23-2169
163	Electrolytic	1μ 50V	02-1058	1			
	capacitor	•		CV101	Variable capacitor	20P	22-2000
164	Electrolytic	1μ 50V	02-1058				
	capacitor	•		VR101	Variable Resistor	50K	21-5030
165	Electrolytic	1μ 50V	02-1058			••••	0000
	capacitor	.,		X101	X'tal	21.145 MHz	12-0001
166	Ceramic capacitor	$.001\mu$	02-1020			HC18/u	12 0001
167	Electrolytic	.47μ 50V	02-4748	i		1107074	
	capacitor		<b>52</b> // / <b>5</b>	F101	X'tal Filter	21M15C (8C)	13-0001
168	Electrolytic	10μ 16V	02-1066		71 (4) 1 11(0)	21.6 MHz	10 0001
	capacitor	. 44 . 44	02 1000	102	Ceramic Filter	LFB20 (8)	13-0002
169	Electrolytic	.47μ 50V	02-4748	103	Ceramic	4550	13-0002
	capacitor	,	02		Discriminator	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 0000
170	Tantalun capacitor	.01μ 6.3V	02-1045		Diocinimato.		
			02 .0 .0	CN101	RF Connector	Minipin Jack VI	35-0001
171	Electrolytic	220μ 6.3V	02-2275	102	RF Connector	Minipin Jack VI	35-0001
	capacitor	220p 0.0 v	02 2210	102	THE COMMISSION	Willipin Gack VI	33-0001
172	Mylar film capacitor	1 $\mu$	02-1043	J101	Connector	R41 3614	36-0001
173	Electrolytic	100μ 25V	02-1077	102	Connector	R41 3614	36-0001
.,,	capacitor	100μ 25 γ	02-1011	102	Connector	1141 3014	30-0001
174	Electrolytic	220μ 16V	02-2276	CH101	Ferri Inductor	1mH	03-1020
11.4	capacitor	2EOM 104	UE-LEIU	102	Ferri Inductor	1mH	03-1020
175	Ceramic capacitor	$.001\mu$	02-1020	102	Ferri Inductor	1mH	03-1020
176	Ceramic capacitor	.001µ .001µ	02-1020	103	Ferri Inductor	220µH	03-7020
178	Ceramic capacitor	.001µ .001µ	02-1020	l '∪4	Heat sink	220μ H AF P.A.	65-0001
179	Ceramic capacitor	.001μ .001μ	02-1020		15 mm Can	AF F.A.	
180	Ceramic capacitor	.001μ .001μ	02-1020		15 mm Can		66-1500
100	Ceramic capacitor	.υυ ιμ	02-1020	1			

## FINAL POWER AMP PCB PARTS LIST

REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
Q501	Transistor	2SC2630	09-2630	R515	Ceramic capacitor	SL 100P	02-1012
502	Transistor	2S-A92	10-0092	516	Ceramic capacitor	SL 100P	02-1012
				517	Ceramic capacitor	.001 $\mu$	02-1020
D501	Diode	MI402	05-0402	518	Ceramic capacitor	.01 $\mu$	02-1030
502	Diode	M1402	05-0402	519	D.M. capacitor	$.001\mu(M)$	02-1024
503	Diode	MI402	05-0402	520	D.M. capacitor	$.001\mu(M)$	02-1024
504	Diode	MI402	05-0402	521	Ceramic capacitor	$.01\mu$	02-1030
505	Diode	MI301	05-0301	522	Ceramic capacitor	CH 20P	02-2001
506	Diode	MI301	05-0301	523	Ceramic capacitor	CH 2P	02-0201
507	Diode	IS1588	05-1588	524	Ceramic capacitor	CH 30P	02-3001
508	Zener Diode	RD4.3EB	25-0430	525	Ceramic capacitor	CH 9P	02-0901
509	Diode	IS1588	05-1588	526	Ceramic capacitor	CH 24P	02-2401
510	Diode	IS1588	05-1588	527	Ceramic capacitor	CH 6P	02-0601
511	Diode	P-300D	05-0300	528	Ceramic capacitor	CH 15P	02-1501
				529	Feed-Through	$.001\mu$	02-1029
R501	1/4 w Carbon Resistor		01-0047	530	Feed-Through	$.001\mu$	02-1029
502	2 w Metal Film	100	01-1013	531	Feed-Through	$.001\mu$	02-1029
503	1/4 w Carbon Resistor		01-1020	532	Ceramic capacitor	$.01\mu$	02-1030
	1/4 w Carbon Resistor		01-4720	533	Ceramic capacitor	.01	02-1030
	1/4 w Carbon Resistor		01-3320	534	Ceramic capacitor	.01	02-1030
	1/4 w Carbon Resistor		01-4710	535	Ceramic capacitor	SL .75PF	02-0072
	1/4 w Carbon Resistor		01-1030			01/04/0450	00 4510
	1/4 w Carbon Resistor		01-2230	VC501	Variable capacitor	CV01C450	22-4510 22-4510
510	1 w Metal Film	20	01-2002	502	Variable capacitor	CV01C450	22-4510
C501	Ceramic capacitor	SL 100PF	02-1012	TH501	Thermisistor	35D46	15-3546
502	Ceramic capacitor	CH 10P	02-1001	ļ			
503	Ceramic capacitor	CH 20P	02-2001	CH501	Ferri Inductor	1μΗ	03-0100
504	Ceramic capacitor	CH 47P	02-4701	502	Ferri Inductor	1μΗ	03-0100
505	Ceramic capacitor	SL 100P	02-1012	503	Ferri Inductor	$1\mu H$	03-0100
506	Ceramic capacitor	CH 24P	02-2401				00.0005
507	Ceramic capacitor	CH 39P	02-3901	L501	Coil	HF 3LR35J	23-8335
508	Ceramic capacitor	$0.01\mu$	02-1030	502	Coil	AK-15	23-1015
509	Ceramic capacitor	$0.047\mu$	02-4730	503	Coil	AK-16	23-1016
510		10µF 25V	02-1067	504	Coil	AK-17	23-1017
	capacitor			505	Coil	AK-18	23-1018
511	Ceramic capacitor	CH 36P	02-3601	506	Coil	AK-19	23-1019
512	Ceramic capacitor	CH 36P	02-3601	F.B.	Ferrite Beads	FB101	67-0001
513	Ceramic capacitor	CH 24P	02-2401	1		,	
514	Ceramic capacitor	CH 10P	02-1001			•	

## DRIVER PCB PARTS LIST

REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
Q401	Transistor	2SC2539	09-2539	C406	Ceramic capacitor	CH 15P	02-1501
402	Transistor	2SB596	09-0596	407	Ceramic capacitor	CH 15P	02-1501
402	Transistor	2SA695	10-0695	408	Ceramic capacitor	CH 24P	02-2401
403	Transistor	2SC2724	09-2724	409	Ceramic capacitor	SL 100P	02-1012
404	Transistor	2SC2724	09-2724	410	Ceramic capacitor	SL 100P	02-1012
405	Transistor	2SA999	10-0999	411	Ceramic capacitor	10P	02-1000
400	11811313101	20,1000		412	Ceramic capacitor	.047µF	02-4730
D401	l ED	GL-9NR2	14-0002	413	Ceramic capacitor	$.01 \mu F$	02-1030
402	Diode	IS1588	05-1588	414	Ceramic capacitor	.047µF	02-4730
402	Diode	IS1588	05-1588	415	Ceramic capacitor	.001µF	02-1020
403	Diode	,0,000		416	Ceramic capacitor	$.001 \mu F$	02-1020
R401	2W Metal Film	56Ω	01-5603	417	Ceramic capacitor	.001μF	02-1020
402	1/4 Carbon Resistor	100Ω	01-1010	418	Electrolytic	16V 10µF	02-1066
403	1/4 Carbon Resistor	10Ω	01-1000	ŀ	capacitor	-	
404	1/4 Carbon Resistor	4.7Ω	01-0047				
405	1/4 Carbon Resistor	3.3K	01-3320	VC401	Variable capacitor	20P 32	22-2000
406	1/4 Carbon Resistor	2.2K	01-2220	VC402	Variable capacitor	45P CV01C450	22-4500
407	1/4 Carbon Resistor	3.3K	01-3320				
408	1/4 Carbon Resistor	3.3K	01-3320	VR401	Variable resistor	50K	21-5030
409	1/4 Carbon Resistor	10K	01-1030	١ ٠			00 1011
410	1/4 Carbon Resistor	10K	01-1030	L401	Coil	AK 14	03-1014
	74					Adia: Dim Jack Ad	35-0001
C401	Ceramic capacitor	CH 15P	02-1501	CN401	RF Connector	Mini Pin Jack A1	35-0001
402	Ceramic capacitor	CH 15P	02-1501		0.5	R413614	36-0001
403	Ceramic capacitor	CH 20P	02-2001	J401	2.5mm Connector	M413014	30-0001
404	Ceramic capacitor	CH 62P	02-6201		Familia Boods	FB101	67-0001
405	Ceramic capacitor	.01 $\mu$ F	02-1030	F-B	Ferrite Beads	10101	0, 000,

## DISPLAY PCB PARTS LIST

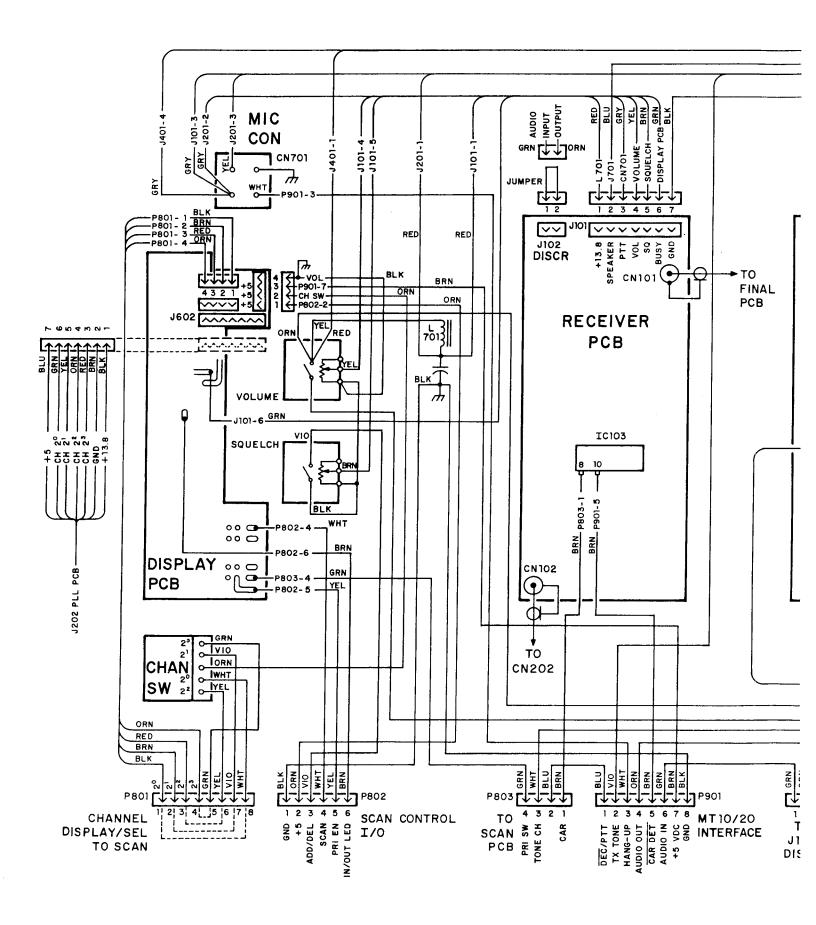
REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
IC601	I C	74LS283	07-4283	A605	1/4 w Carbon Resistor	10K	01-1030
602	I C	74185	07-4185	606	1/4 w Carbon Resistor		01-1020
603	I C	74LS47	07-7447	607	1/4 w Carbon Resistor	1K	01-1020
				608	1/4 w Carbon Resistor	1K	01-1020
Q601	Transistor	2SC2724	09-2724	609	1/4 w Carbon Resistor	1K	01-1020
				610	1/4 w Carbon Resistor	1K	01-1020
D601	Diode	GL-9NY2	14-0004	611	1/4 w Carbon Resistor	1K	01-1020
602	Diode	GL-9NR2	14-0002	612	1/4 w Carbon Resistor	1K	01-1020
603	Diode	GL-9NG2	14-0005	613	1/4 w Carbon Resistor	1K	01-1020
604	Diode	SL-2271	14-2271	614	1/4 w Carbon Resistor	1K	01-1020
		•		615	1/4 w Carbon Resistor	1K	01-1020
A601	1/4 w Carbon Resistor	1K	01-1025	616	1/4 w Carbon Resistor	1K	01-1020
601	1/4 w Carbon Resistor	1K	01-1025	617	1/4 w Carbon Resistor	1K	01-1020
602	1/8 w Carbon Resistor	1K	01-1025	1			
603	1/2 w Carbon Resistor	1K	01-1025	C601	Ceramic capacitor	.01μF	02-1030
604	1/4 w Carbon Resistor	1K	01-1025	l	·		
				l			

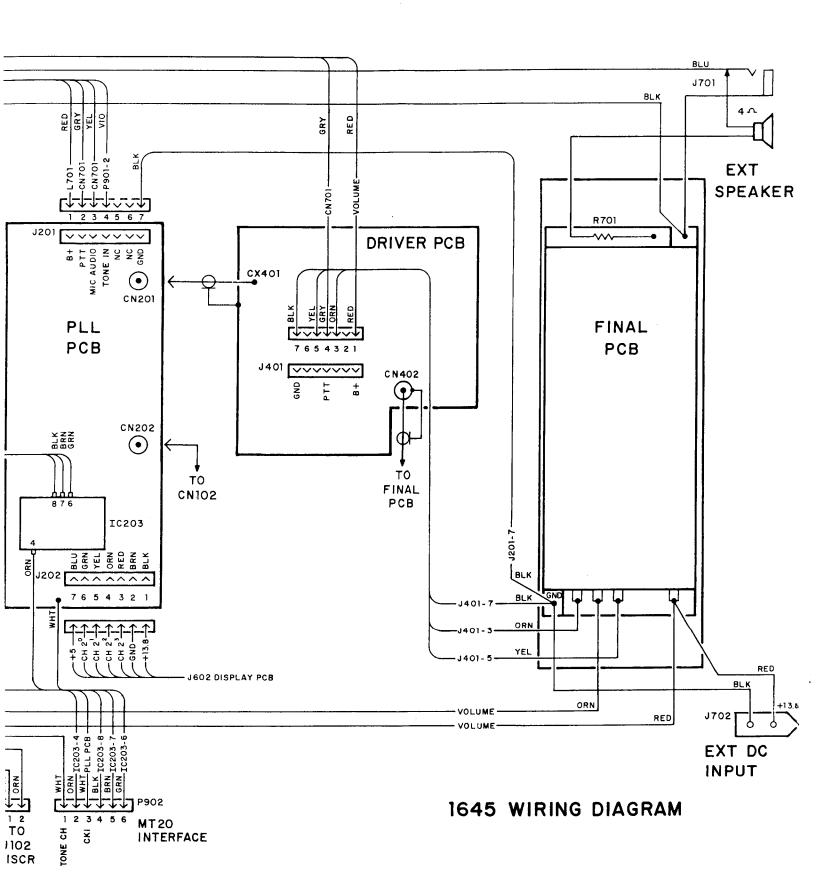
## CHASSIS COMPONENTS PARTS LIST

REF	TYPE	DESCRIPTION	PART #	REF	TYPE	DESCRIPTION	PART #
S703	Channel SW		91-0003	R701	1W Metal Film	10Ω	01-1002
VR701	Volume Pot	20K	91-0001	C701	Ceramic capacitor	SL 100PF	02-1012
702	Squelch Pot	20K	91-0001	702	Ceramic capacitor	SL 100P	02-1012
				703	Ceramic capacitor	SL 100P	02-1012
CN701	Mic Connector		91-0002				
702	Ant Connector		91-0006				
J701	Ext Sp Jack (3.5m	nm)	91-0005				
702	Power Jack		91-0004				

PTT AKTIF (TX AKTIF) JIKA JALUR PTT SEMUA DIGROUNDED, ELSE, KE POSISI RADIO RX

TEGANGAN ARDUINO NANO/PROMINI DISUPPLY DARI BOARD PLL 5V EX PSU EPROM, HARUSNYA CUKUP





#### LIMITED WARRANTY

Neutec, a Division of Celltronics Incorporated, warrants that your Neutec product is free of defects in material and workmanship for a period of 90 (ninety) days after initial retail purchase. Neutec will, in this period of time, repair or replace, at its option, any Neutec product returned to its warranty repair station freight prepaid. Additionally, Neutec will, for a period of 12 (twelve) months after initial retail purchase, provide required repair parts for any Neutec product returned to its warranty repair station freight prepaid. Also, Neutec will, for a period of 24 (twenty-four) months after initial retail purchase of a Neutec SM-1645 Series radio, provide exchange printed circuit board assemblies for any Neutec SM-1645 Series radio requiring repair.

The Neutec warranty covers repair or replacement of the product only. Neutec is not responsible for costs of removal, reinstallation, or shipping to the place of repair. Neutec does not extend or modify its warranty period as a result of repair or replacement.

Neutec reserves the right to void a warranty or make reasonable charges for repair of a unit which displays evidence of misuse, abuse, or alteration of basic design.

Neutec is not responsible for damage to any other equipment or property, or any other consequential or incidential damages of any kind, whether based on contract, negligence, or strict liability. Maximum liability shall not in any case exceed the purchase price of the unit.

Warranties give you (the buyer) specific legal rights. You may also have other rights which vary from state to state. This warranty is only extended to purchases made in the United States of America or its possessions.