

SERVICE MANUAL

ADCOM®

TUNER/PREAMP

GTP-500II

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FM IF and RF Alignment / FM MPX Alignment GTP-500II

Instruments: FM Stereo Signal Generator (400Hz, Modulated @ 100%), THD Analyzer, Oscilloscope, AC Voltmeter, Digital DC Voltmeter

Connections: THD Analyzer, Oscilloscope and AC Voltmeter to audio outputs (LEFT or RIGHT as necessary).

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Not Necessary		87.5MHz	L107	3V reading, $\pm 0.1V$, on DC Voltmeter across TP3 & TP4
2			108MHz	CT104	23V reading, $\pm 0.2V$, on DC Voltmeter across TP3 & TP4
3	Repeat steps 1 and 2 until no further improvement is observed.				
4	Antenna terminal, input below limiting of IF	90MHz	90MHz	L102, L103, L104	Maximum reading on AC Voltmeter
5		105MHz	105MHz	CT101, CT102, CT103	Maximum reading on AC Voltmeter
6		98MHz	98MHz	L106	Maximum output, minimum distortion
7	Repeat steps 4, 5 and 6 until no further improvement is observed. (MUTING OFF)				
8	Antenna terminal, 1mV input	90MHz	90MHz	L151(A)	0.000V, $\pm 0.003V$, on DC Voltmeter connected across TP1&TP2
9				L151(B)	Minimum reading on THD Analyzer
10	Repeat steps 8 and 9 until no further improvement is observed. (MUTING OFF)				
11	Antenna terminal, 15uV input	90MHz	90MHz	VR 151	Muting level (MUTING ON)
12	Antenna terminal, 1mV input	90MHz	90MHz	VR 152	SIGNAL LEVEL INDICATOR 5th LED ON
13	Antenna terminal, 1mV input (L or R)	98MHz Pilot@10%, 1kHz @ 90% mod.	98MHz	VR 301	Best separation MUTING ON, HI BLEND OFF

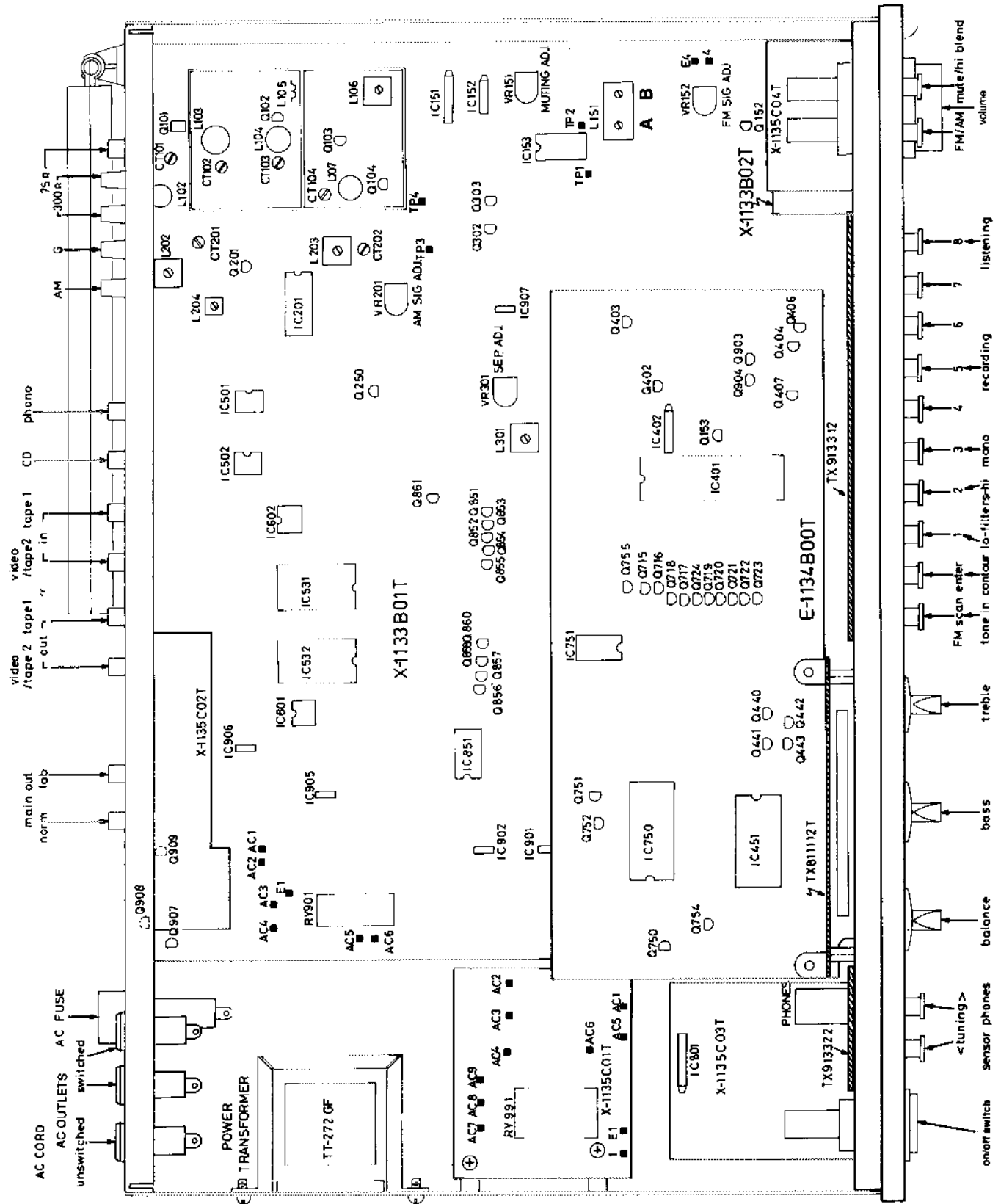
AM IF and RF Alignment

Instruments: AM Signal Generator (400Hz, Modulated @ 30%), AC Voltmeter, Oscilloscope, DC Voltmeter,

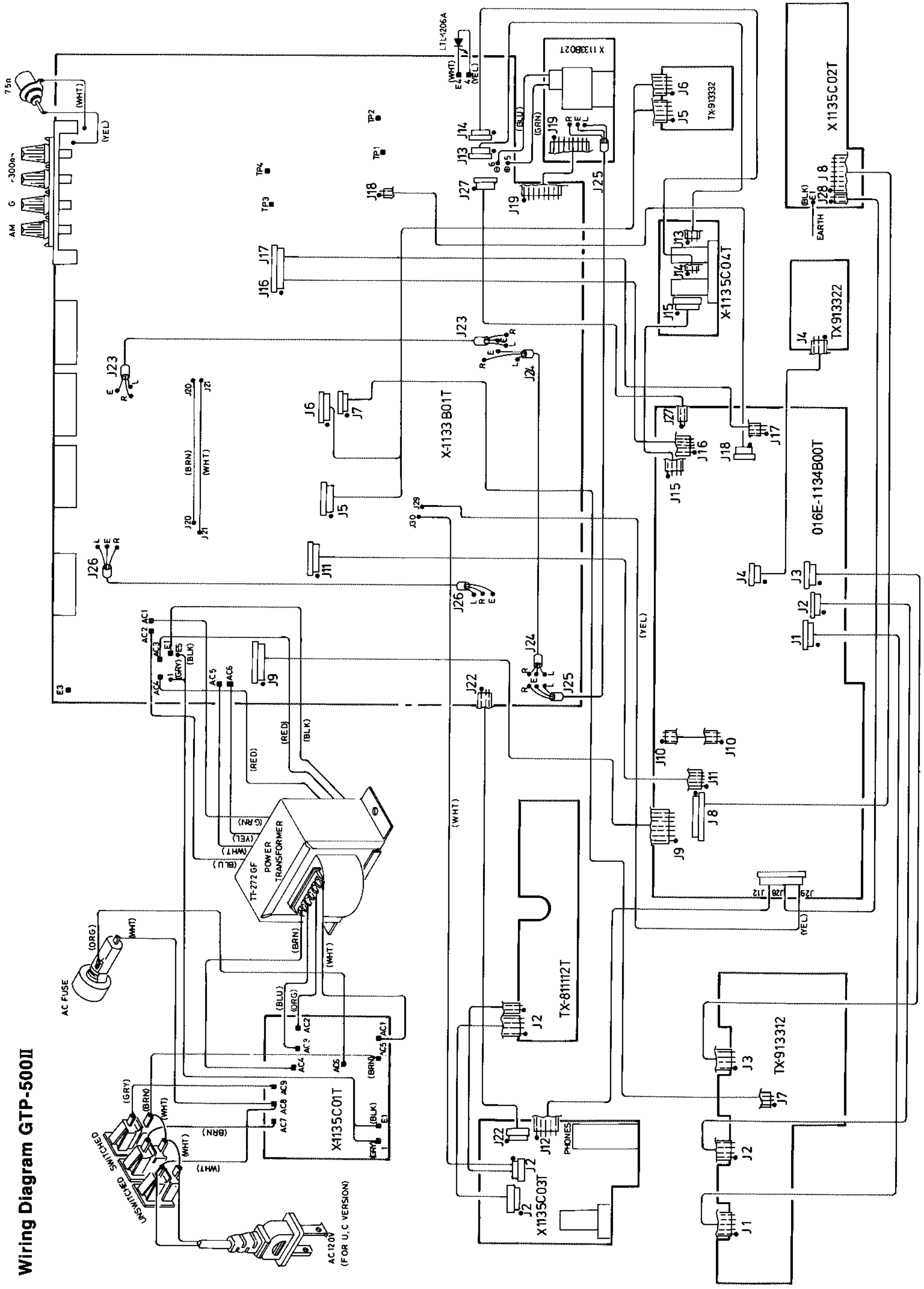
Connections: AC Voltmeter and Oscilloscope to audio outputs (LEFT or RIGHT).

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Not Necessary		530kHz (531kHz) Europe	L203	3V, $\pm 0.1V$, on DC Voltmeter across TP3 & TP4
2			1600kHz (1602kHz) Europe	CT202	25V, $\pm 0.2V$, on DC Voltmeter across TP3 & TP4
3	Repeat steps 1 and 2 until no further improvement is observed.				
4	Use Test Loop.	450kHz	530kHz	L204	Maximum reading on AC Voltmeter
5	Use Test Loop. Radiate signal into loop antenna, 2mV input level	600kHz	600kHz	L202, L204	
6		1400kHz	1400kHz	CT201	
7	Repeat steps 5 and 6 until no further improvement is observed.				
8	Use Test Loop. Radiate signal into loop antenna, 5mV input level	1000kHz	1000kHz	VR201	SIGNAL LEVEL INDICATOR 5th LED ON

Chassis Layout GTP-500II



Wiring Diagram GTP-500II



ADCOM GTP-500II SERVICE PARTS LIST

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
X-1133B01T PCB ASSEMBLY		
R101	RD52702821	CARBON-FILM 27k J 1/4W
R102,103	RD51003820	CARBON-FILM 100k J 1/4W
R104	RD54702824	CARBON-FILM 47k J 1/4W
R105	RD52209820	CARBON-FILM 22 J 1/4W
R106	RD51500827	CARBON-FILM 150 J 1/4W
R107	RD54709820	CARBON-FILM 47 J 1/4W
R108	RD52702821	CARBON-FILM 27k J 1/4W
R109	RD52702821	CARBON-FILM 27k J 1/4W
R110	RD52202824	CARBON-FILM 22k J 1/4W
R111	RD54701820	CARBON-FILM 4.7k J 1/4W
R112	RD52201820	CARBON-FILM 2.2k J 1/4W
R113,115	RD54709820	CARBON-FILM 47 J 1/4W
R114	RD58200825	CARBON-FILM 820 J 1/4W
R116,117	RD51002827	CARBON-FILM 10k J 1/4W
R118	RD52201820	CARBON-FILM 2.2k J 1/4W
R119	RD51003820	CARBON-FILM 100k J 1/4W
R120	RD51500827	CARBON-FILM 150 J 1/4W
R121	RD51001823	CARBON-FILM 1k J 1/4W
R122	RD54709820	CARBON-FILM 47 J 1/4W
R151 THRU 154	RD53300829	CARBON-FILM 330 J 1/4W
R155	RD54709820	CARBON-FILM 47 J 1/4W
R156	RD53300829	CARBON-FILM 330 J 1/4W
R157,159	RD54702824	CARBON-FILM 47k J 1/4W
R158	RD51002827	CARBON-FILM 10k J 1/4W
R163	RD58202822	CARBON-FILM 82k J 1/4W
R164	RD54702824	CARBON-FILM 47k J 1/4W
R165	RD51000820	CARBON-FILM 100 J 1/4W
R166	RM85620616	METAL-FILM MK2 562RFECZ *
R167,168	RM81502613	METAL-FILM MK2 015KFECZ *
R169	RM88251610	METAL-FILM MK2 8K25FECZ *
R170	RM82431614	METAL-FILM MK2 2K43FECZ *
R171	RD52202824	CARBON-FILM 22k J 1/4W
R172	RD51003820	CARBON-FILM 100k J 1/4W
R173	RD54701820	CARBON-FILM 4.7k J 1/4W
R174	RD56802822	CARBON-FILM 68k J 1/4W
R175	RD51500827	CARBON-FILM 150 J 1/4W
R176	RD52202824	CARBON-FILM 22k J 1/4W
R177	RD51003820	CARBON-FILM 100k J 1/4W
C102	CC31011435	CERAMIC 100pF 50V
C103,104	CC31009465	CERAMIC 0.01uF 50V
C105,106	CC13013417	CERAMIC 3pF CH 50V
C107	CC31009465	CERAMIC 0.01uF 50V
C108	CC15013410	CERAMIC 5pF CH 50V
C109	CC31011435	CERAMIC 100pF 50V
C110	CC15013410	CERAMIC 5pF CH 50V
C111,112	CC31009465	CERAMIC 0.01uF 50V
C113	CC16013416	CERAMIC 6pF CH 50V
C114	CC31013481	CERAMIC 1pF 50V
C115	CC15013410	CERAMIC 5pF CH 50V
C116	CC33312438	CERAMIC 33pF 50V
C117	CC05013485	CERAMIC 5pF D SL 50V
C118	CC15013410	CERAMIC 5pF CH 50V
C119	CE01005167	ELECTROLYTIC 100uF 16V
C120,121	CC31009465	CERAMIC 0.01uF 50V
C122	CE01005258	ELECTROLYTIC 100uF 25V
C123	CE01007504	ELECTROLYTIC 1uF 50V
C124	CC31009465	CERAMIC 0.01uF 50V
C151 THRU 153	CC31009465	CERAMIC 0.01uF 50V
C155 THRU 159	CC31009465	CERAMIC 0.01uF 50V
C160,162	CE01007504	ELECTROLYTIC 1uF 50V
C163	CC05009457	CERAMIC 0.047uF 50V
C164	CC31009465	CERAMIC 0.01uF 50V

C165 THRU 167	CC05009457	CERAMIC 0.047uF 50V
C168	CE01005258	ELECTROLYTIC 100uF 25V
C169	CE01005167	ELECTROLYTIC 100uF 16V
C170	CE04707252	ELECTROLYTIC 4.7uF 25V
C172	CC31009465	CERAMIC 0.01uF 50V
D101 THRU 104	DD50000055	SVC211
D151 THRU 153	DD80000021	1N4148
IC151	IC00001516	TA7302P
IC152	IC00001449	TA7060AP
IC153	IC00001103	LA1235
Q101	TR50000140	3SK107-F
Q102,103	TR30000133	2SC1674
Q104	TR50000103	2SK544
Q152	TR30000327	2SC536
CT101 THRU 103	CF00000159	VARIABLE CAPACITOR VC51C
CT104	CF00000184	VARIABLE CAPACITOR VC51A
X151	LF00000270	CERAMIC FILTER SFE 10.7MLH-A
X152 THRU 154	LF00000269	CERAMIC FILTER SFE 10.7MP3H-A
VR151	RV20000193	VARIABLE RESISTOR 08-301 10KB
VR152	RV20000235	VARIABLE RESISTOR 08-301 50KB
L102	LC23390009	FM ANTENNA COIL TRL-339
L103	LC23380004	FM RF COIL TRL-338
L104	LC23370000	FM RF COIL TRL-337
L105	LM00000073	MICRO INDUCTOR TRL-239
L106	LC02330000	FM IF COIL RL-233T
L107	LC23360005	FM OSC COIL TRL-336
L108	LM00000073	MICRO INDUCTOR TRL-239
L151	LC31090007	IF COIL RLV-109T
R201	RD51002827	CARBON-FILM 10k J 1/4W
R202	RD52204821	CARBON-FILM 2.2M J 1/4W
R203,204	RD51002827	CARBON-FILM 10k J 1/4W
R205	RD52700824	CARBON-FILM 270 J 1/4W
R206	RD54700827	CARBON-FILM 470 J 1/4W
R207	RD52200827	CARBON-FILM 220 J 1/4W
R208	RD51003820	CARBON-FILM 100k J 1/4W
R209	RD54709820	CARBON-FILM 47 J 1/4W
R210	RD51001823	CARBON-FILM 1k J 1/4W
R211	RD51501820	CARBON-FILM 1.5k J 1/4W
R213	RD54700827	CARBON-FILM 470 J 1/4W
R214	RD52201820	CARBON-FILM 2.2k J 1/4W
R215,216	RD51002827	CARBON-FILM 10k J 1/4W
R217	RD52200827	CARBON-FILM 220 J 1/4W
R218	RD51000820	CARBON-FILM 100 J 1/4W
R220	RD53301822	CARBON-FILM 3.3k J 1/4W
R222	RD54701820	CARBON-FILM 4.7k J 1/4W
R224	RD51002827	CARBON-FILM 10k J 1/4W
R225	RD51000820	CARBON-FILM 100 J 1/4W
R250,251	RD55601821	CARBON-FILM 5.6k J 1/4W
R253	RD51002827	CARBON-FILM 10k J 1/4W
R254	RD52203828	CARBON-FILM 220k J 1/4W
R255	RD54701820	CARBON-FILM 4.7k J 1/4W
R256	RD51000820	CARBON-FILM 100 J 1/4W
C201	CC31009465	CERAMIC 0.01uF 50V
C202	CC31010431	CERAMIC 0.001uF 50V
C204	CC31009465	CERAMIC 0.01uF 50V
C205	CS43911424	STYROL 390pF 50V
C207	CC11012410	CERAMIC 10pF CH 50V
C208,209	CC31009465	CERAMIC 0.01uF 50V
C210	CC31010431	CERAMIC 0.001uF 50V
C211	CC05009457	CERAMIC 0.047uF 50V
C212,213	CC31009465	CERAMIC 0.01uF 50V
C214	CE01005258	ELECTROLYTIC 100uF 25v
C215	CC31009465	CERAMIC 0.01uF 50V
C216	CM02209426	MYLAR 223 J 50V
C217	CC31010431	CERAMIC 0.001uF 50V
C218	CE01006251	ELECTROLYTIC 10uF 25V
C219	CE04707252	ELECTROLYTIC 4.7uF 25V
C220,221	CC31009465	CERAMIC 0.01uF 50V
C222	CE01005258	ELECTROLYTIC 100uF 25V

C223	CE04708505	ELECTROLYTIC 0.47uF 50V
C225	CM02210428	MYLAR 222 J 50V
C226	CM02208422	MYLAR 224 J 50V
C250	CM01509424	MYLAR 153 J 50V
IC201	IC00001322	LA1245
D201,202	DD50000092	SVC333
D204	DD80000021	1N4148
D250	DD80000021	1N4148
Q201	TR50000097	2SK49
Q250,251	TR30000327	2SC536
X201	LF00000191	CERAMIC FILTER BFU450C4N
X202	LF00000245	CERAMIC FILTER SFP450H
VR201	RV20000193	VARIABLE RESISTOR 08-301 10KB
CT201,202	CF00000159	VARIABLE CAPACITOR VC51C
L202	LC31290008	AM ANTENNA COIL RLV-129T
L203	LC31050009	AM OSC COIL RLV-105T
L204	LC23230006	AM IF COIL TRL-323
R302	RD53301822	CARBON-FILM 3.3k J 1/4W
R305	RD54702824	CARBON-FILM 47k J 1/4W
R307,308	RM81003610	METAL-FILM MK2 100KFECZ *
R309,310	RM88252614	METAL-FILM MK2 82K5FECZ *
R311	RD53902829	CARBON-FILM 39k J 1/4W
R312	RD5270284	CARBON-FILM 27k J 1/4W
R314 THRU 317	RM83321610	METAL-FILM MK2 3K32FECZ *
R319 THRU 321	RD51003820	CARBON-FILM 100k J 1/4W
R381	RD51003820	CARBON-FILM 100k J 1/4W
C301	CE02205255	ELECTROLYTIC 220uF 25V
C302	CN04708503	NON-POLARIZED 0.47uF 50V
C303,304	CN01007507	NON-POLARIZED 1uF 50V
C305	CM04709426	MYLAR 473 J 50V
C306	CE01007504	ELECTROLYTIC 1uF 50V
C307	CC34711432	CERAMIC 470pF 50V
C308	CE72206509	ELECTROLYTIC ECEA1HFS220
C309,310	CE01006251	ELECTROLYTIC 10uF 25V
C311,312	CS45111423	STYROL 510pF 50V
C313,314	CS42211420	STYROL 220pF 50V
C315,316	CE74713502	ELECTROLYTIC ECEA1HFS4R7
IC301	IC00001450	LA3400
VR301	RV20000235	VARIABLE RESISTOR 08-301 50KB
L301,302	LC21940006	FM MPX FILTER TRL-194
X301	LF00000257	CERAMIC FILTER CSB456F10
Q302	TR30000327	2SC536
Q303	TR30000126	2SA608K
R503,504	RM84752616	METAL-FILM MK2 47K5FECZ *
R507,508	RM82610612	METAL-FILM MK2 261RFECZ *
R509,510	RM84990618	METAL-FILM MK2 499RFECZ *
R511,512	RM81782610	METAL-FILM MK2 17K8FECZ *
R513,514	RM82153614	METAL-FILM MK2 215KFECZ *
R515,516	RM88252614	METAL-FILM MK2 82K5FECZ *
R517,518	RM84750619	METAL-FILM MK2 475RFECZ *
R533,534	RD53302826	CARBON-FILM 33k J 1/4W
R557,558	RM82211614	METAL-FILM MK2 2K21FECZ *
R559,560	RM81005617	METAL-FILM MK2 010MFECZ *
R561,562	RM83481613	METAL-FILM MK2 3K48FECZ *
R563,564	RM82212618	METAL-FILM MK2 22K1FECZ *
R567,568	RM81000619	METAL-FILM MK2 100RFECZ *
R570,571	RM81001612	METAL-FILM MK2 001KFECZ *
R572 THRU 576	RM86811612	METAL-FILM MK2 6K81FECZ *
R577,578	RM81001612	METAL-FILM MK2 001KFECZ *
R579,580	RM86811612	METAL-FILM MK2 6K81FECZ *
R581,582	RM84753610	METAL-FILM MK2 475KFECZ *
R583,584	RM83321610	METAL-FILM MK2 3K32FECZ *
R585,586	RM87501618	METAL-FILM MK2 07K5FECZ *
R587,588	RM81002616	METAL-FILM MK2 010KFECZ *
R589,590	RM82742619	METAL-FILM MK2 27K4FECZ *
R591,592	RM84999610	METAL-FILM MK2 499RFECZ *
R593,594	RM82212618	METAL-FILM MK2 22K1FECZ *
C501,502	CP51010306	POLYPROPYLENE KP100V101F †
C507,508	CE72204161	ELECTROLYTIC ECEA1CF222

C509,510	CP44707332	METALLIZED POLYESTER ECQE1475KF
C513,514	CP53310408	POLYPROPYLENE KP63V332F †
C515,516	CP51509404	POLYPROPYLENE KP63V153F †
C517,518	CP54710406	POLYPROPYLENE KP63V472F †
C519,520	CP11008330	METALLIZED POLYESTER 0.1uF 100V
C521,522	CE02205358	ELECTROLYTIC 220uF 35V
C531,532	CE01007504	ELECTROLYTIC 1uF 50V
C551,552	CS34712426	STYROL SRA470J50
C553,554	CS32212426	STYROL SRA220J50
C555,556	CP14708437	METALLIZED POLYESTER 0.47uF 50V
C561 THRU 564	CM04710428	MYLAR 472 J 50V
C565 THRU 568	CM05609427	MYLAR 563 J 50V
C569,570	CS34712426	STYROL SRA470J50
C571,572	CP14707330	METALLIZED POLYESTER 4.7uF 100V
C573,574	CP11008330	METALLIZED POLYESTER 0.1uF 100V
C573B,574B	CE02205358	ELECTROLYTIC 220uF 35V
C575,576	CS42211420	STYROL 220pF 50V
C581,582	CE72206509	ELECTROLYTIC ECEA1HFS220
IC501,502	IC00001670	ADCOM 5F
IC531,532	IC00001486	TC9152P
IC551 THRU 554	IC00002144	ADCOM 6A
VR552,553	RV10000433	POTENTIOMETER,TONE 4TR-1742 20KBx2
VR554	RV10001024	POTENTIOMETER,BALANCE 4TR-2446 50KMN
S16 THRU S20	SH15000222	5-KEY PUSH-SWITCH 4TR-2229
RY551	LY00000174	RELAY RZ-24W
R601 THRU 606	RM81001612	METAL-FILM MK2 001KFECZ *
R607,608	RM81823612	METAL-FILM MK2 182KFECZ *
R609,610	RM81001612	METAL-FILM MK2 001KFECZ *
R611,612	RM81823612	METAL-FILM MK2 182KFECZ *
R613,614	RM81001612	METAL-FILM MK2 001KFECZ *
R615,616	RM81211618	METAL-FILM MK2 1K21FECZ *
R617,618	RM82212618	METAL-FILM MK2 22K1FECZ *
R619,620	RM81211618	METAL-FILM MK2 1K21FECZ *
R621,624	RM87501618	METAL-FILM MK2 07K5FECZ *
R625,626	RM83921613	METAL-FILM MK2 3K92FECZ *
R627 THRU 630	RM87501618	METAL-FILM MK2 07K5FECZ *
R631,632	RD51002827	CARBON-FILM 10k J 1/4W
R633,634	RM81502613	METAL-FILM MK2 015KFECZ *
R635,636	RM81503617	METAL-FILM MK2 150KFECZ *
C609 THRU 612	CS41011422	STYROL 100pF 50V
C613 THRU 616	CP16808435	METALLIZED POLYESTER 0.68uF 50V
C617 THRU 620	CS43310416	STYROL 3000pF 50V
C621 THRU 626	CS41011422	STYROL 100pF 50V
C627,628	CP14707330	METALLIZED POLYESTER 4.7uF 100V
IC601,602	IC00002181	ADCOM 7A
R851,853	RD51003820	CARBON-FILM 100k J 1/4W
R852,854	RD55603829	CARBON-FILM 560k J 1/4W
R855 THRU 864	RD51002827	CARBON-FILM 10k J 1/4W
R865 THRU 874	RD51003820	CARBON-FILM 100k J 1/4W
R875	RD53301822	CARBON-FILM 3.3k J 1/4W
R876	RD51002827	CARBON-FILM 10k J 1/4W
R877	RD51003820	CARBON-FILM 100k J 1/4W
R879 THRU 882	RM84750619	METAL-FILM MK2 475RFECZ *
R883 THRU 888	RM84752616	METAL-FILM MK2 47K5FECZ *
R889,890	RM81003610	METAL-FILM MK2 100KFECZ *
C854	CE01005258	ELECTROLYTIC 100uF 25V
C851,852	CC31010431	CERAMIC 0.001uF 50V
C853	CE01008508	ELECTROLYTIC 0.1uF 50V
C855 THRU 858	CE01007504	ELECTROLYTIC 1uF 50V
C860 THRU 864	CE01007504	ELECTROLYTIC 1uF 50V
C866	CE01008508	ELECTROLYTIC 0.1uF 50V
C867,868	CE02206259	ELECTROLYTIC 22uF 25V
C865	CE01005258	ELECTROLYTIC 100uF 25V
C870	CE01005258	ELECTROLYTIC 100uF 25V
Q851 THRU 861	TR30000327	2SC536
D850 THRU 872	DD80000021	1N4148
IC851	IC00002259	LB1292
IC852THRU 854	IC00001188	LC4081B
R912	RM92200121	METAL-OXIDE 220 J 1W

R913	RD54700827	CARBON-FILM 470 J 1/4W
R914,916	RD51003820	CARBON-FILM 100k J 1/4W
R915,917	RD54702824	CARBON-FILM 47k J 1/4W
R918	RM93300123	METAL-OXIDE 330 J 1W
R919	RM92700129	METAL-OXIDE 270 J 1W
R920	RD52201820	CARBON-FILM 2.2k J 1/4W
R951,952	RM81272619	METAL-FILM MK2 12K7FECZ *
R953,954	RM81001612	METAL-FILM MK2 001KFE CZ *
R955	RD51009822	CARBON-FILM 1k J 1/4W
R961,962	△ RF92708921	FUSIBLE 2.7 J 1/2W
R963	△ RF14708926	FUSIBLE 4.7 J 1/2W
C901 THRU 903	△ CC01009256	CERAMIC 0.01uF 250V
C905	CE01004357	ELECTROLYTIC 1000uF 35V
C908	CE02205255	ELECTROLYTIC 220uF 25V
C910	CE02205164	ELECTROLYTIC 220uF 16V
C911 THRU 914	△ CC01009256	CERAMIC 0.01uF 250V
C915,916	CE02210500	ELECTROLYTIC 2200uF 50V
C921	CE02205358	ELECTROLYTIC 220uF 35V
C922,926	△ CC01009256	CERAMIC 0.01uF250V
C923,924	CE04705358	ELECTROLYTIC 470uF 35V
C925	CE02205358	ELECTROLYTIC 220uF 35V
C928	CE02205504	ELECTROLYTIC 220uF 50V
C930,931	△ CC01009256	CERAMIC 0.01uF 250V
C932	CE04705504	ELECTROLYTIC 470uF 50V
C933	CE02205164	ELECTROLYTIC 220uF 16V
C951,952	CE02205358	ELECTROLYTIC 220uF 35V
C953	CE01005258	ELECTROLYTIC 100uF 25V
C973	CE01006500	ELECTROLYTIC 10uF 50V
C975	CE02205358	ELECTROLYTIC 220uF 35V
D901 THRU 904	DD80000010	1N4003
D907 THRU 910	DD80000010	1N4003
D915,916	DD80000010	1N4003
D917	DD80000021	1N4148
D918	DD20000132	RD9.1E
D919,920	DD80000021	1N4148
D921,922	DD80000010	1N4003
D951 THRU 954	DD80000010	1N4003
D955	DD20000065	RD6.8E
Q907	TR10000059	2SB764
Q908	TR30000327	2SC536
Q909	TR30000121	2SC2274
IC901	IC00002156	ADCOM J1
IC902	IC00002168	ADCOM J3
IC903,905	IC00001267	78M15
IC904	IC00001565	79M15
IC906	IC00002077	HA17806
IC907	IC00001875	78L12
IC908	IC00002260	LB1641
RY901	△ LY00000125	RELAY AP24D4
	TP20000237	4P ANTENNA TERMINAL YKD31-0201
	TP20000250	4P ANTENNA TERMINAL 4TR-2538#1 (K1,K2,E1,E2)
	JP04000187	4P DIN JACK 4TR-2672#1
	JP04000205	4P DIN JACK 4TR-2672#3
X-1133B02T PCB ASSEMBLY		
VR555	RV10001073	POTENTIOMETER,VOLUME/MOTOR ASSEMBLY C-4170B08 50KBx2
E-1134B00T PCB ASSEMBLY		
R401	RD28201827	CARBON-FILM 8.2k J 1/4W
R402	RD22201829	CARBON-FILM 2.2k J 1/4W
R403,404	RD22700822	CARBON-FILM 270 J 1/4W
R405	RD21002825	CARBON-FILM 10k J 1/4W
R406	RD28201827	CARBON-FILM 8.2k J 1/4W
R407	RD24700825	CARBON-FILM 470 J 1/4W
R408	RD23302824	CARBON-FILM 33k J 1/4W
R409	RD21002825	CARBON-FILM 10k J 1/4W
R410,411	RD23302824	CARBON-FILM 33k J 1/4W
R412,413	RD28202820	CARBON-FILM 82k J 1/4W
R414	RD21003829	CARBON-FILM 100k J 1/4W
R415	RD21002825	CARBON-FILM 10k J 1/4W

R420	RD21002825	CARBON-FILM 10k J 1/4W
R421	RD24702822	CARBON-FILM 47k J 1/4W
R440	RD22202822	CARBON-FILM 22k J 1/4W
R441	RD24701829	CARBON-FILM 4.7k J 1/4W
R442	RD24702822	CARBON-FILM 47k J 1/4W
R443	RD21003829	CARBON-FILM 100k J 1/4W
R444 THRU 448	RD21002825	CARBON-FILM 10k J 1/4W
R459	RD21002825	CARBON-FILM 10k J 1/4W
R462 THRU 467	RN11002068	THICK-FILM NETWORK RA8-103-6K
R468 THRU 474	RN31002087	THICK-FILM NETWORK RA8-103-8K
R475 THRU 482	RN31002087	THICK-FILM NETWORK RA8-103-8K
C402	CE01338509	ELECTROLYTIC 0.33uF 50V
C403	CE01005350	ELECTROLYTIC 100uF 35V
C404 THRU 407	CC31009465	CERAMIC 0.01uF 50V
C415	CE02204068	ELECTROLYTIC 2200uF 6.3V
C416,417	CC01512434	CERAMIC 15pF 50V
C418	CC31009465	CERAMIC 0.01uF 50V
C419	CC05009457	CERAMIC 0.047uF 50V
C420,421	CE01007504	ELECTROLYTIC 1uF 50V
C452,454	CC31009465	CERAMIC 0.01uF 50V
C460	CM01010429	MYLAR 102J 50V
X401	DD60000040	CRYSTAL OSCILLATOR HC49U 7.2MHZ
IC401	IC00001346	TC9157AP
IC402	IC00000482	TD6104P
IC451	IC00000573	TD6301AP
D404,407	DD10000100	1N4148
D413,414	DD10000100	1N4148
D441 THRU 443	DD10000100	1N4148
Q153	TR30000327	2SC536
Q402	TR50000127	2SK246-Y
Q403	TR30000431	2SC1570
Q404	TR30000327	2SC536
Q406,407	TR10000140	2SA984K
Q440,441	TR30000327	2SC536
Q442	TR30000126	2SA608K
Q443	TR30000327	2SC536
R729 THRU 738	RD22202822	CARBON-FILM 22k J 1/4W
R750	RD21003829	CARBON-FILM 100k J 1/4W
R751 THRU 754	RD24702822	CARBON-FILM 47k J 1/4W
R755	RD21002825	CARBON-FILM 10k J 1/4W
R756	RD21003829	CARBON-FILM 100k J 1/4W
R757	RD24702822	CARBON-FILM 47k J 1/4W
R759	RD24702822	CARBON-FILM 47k J 1/4W
R761	RD22203826	CARBON-FILM 220k J 1/4W
R762	RD24703826	CARBON-FILM 470k J 1/4W
R763	RD21203826	CARBON-FILM 12k J 1/4W
R764	RD21003829	CARBON-FILM 100k J 1/4W
R765	RD24701829	CARBON-FILM 4.7k J 1/4W
R766	RD24702822	CARBON-FILM 47k J 1/4W
R767	RD24703826	CARBON-FILM 470k J 1/4W
R768,769	RD21003829	CARBON-FILM 100k J 1/4W
R770 THRU 773	RD21003829	CARBON-FILM 100k J 1/4W
R774	RD21002825	CARBON-FILM 10k J 1/4W
R775	△ RF14708926	FUSIBLE, 4.7 J 1/2W
R777	RD21002825	CARBON-FILM 10k J 1/4W
R778	RD28200823	CARBON-FILM 820 J 1/4W
C750	CC05009457	CERAMIC 0.047uF 50V
C751	CE01005106	ELECTROLYTIC 100uF 10V
C752	CE01007504	ELECTROLYTIC 1uF 50V
C753	CE02207501	ELECTROLYTIC 2.2uF 50V
C754,755	CC32211432	CERAMIC 220pF 50V
C756	CC31010431	CERAMIC 0.001uF 50V
C757	CC05009457	CERAMIC 0.047uF 50V
C758,759	CE04707252	ELECTROLYTIC 4.7uF 25V
C760,761	CE01007504	ELECTROLYTIC 1uF 50V
C765	CE04706259	ELECTROLYTIC 47uF 25V
IC750	IC00001759	LC6522C-3433
IC751	IC00001188	LC4081B
Q715 THRU 723	TR30000327	2SC536

Q751,752	TR30000327
Q754,755	TR30000327
D750 THRU 758	DD10000100
X750	LF00000294
R902	RD21002825
R905	RD21502822
R906	RD21802829
R907	RD23302824
C912	CE04706168
C913	CE04706508
D907	DD10000100
D908	DD20000193
Q903,904	TR30000431
FL001	DD40000976

X-1135C01T PCB ASSEMBLY

R991	RM92200121
C001,002	△ CK00000035
D990	DD10000100
RY991	△ LY00000204
R001	△ RD02204928
MOV001	△ DD30000104
MOV002	△ DD30000116

X-1135C02T PCB ASSEMBLY

R776	△ RF91009920
R778,779	RD21500825
R002	△ RF91009920
C762	CE01005106
C763	CE04706107
	JD05000055
	JD08000029
	JH00000196

X-1135C03T PCB ASSEMBLY

R701	RD11009823
R702	RD12203829
R703	RD12202825
R704	RD22700822
R705	RD21002825
R706	RD24700822
C701	CE01007504
C702	CE03307503
C703	CC35611433
C704	CE01005106
IC701	IC00001589
Q701	TR10000126
D701	DD70000036
R802	RD21002825
R803	RD12202825
R804	RD21000828
C802,803	CE01006251
IC801	IC00000883
S1	SH11000227
	JH00000147

X-1135C04T PCB ASSEMBLY

R351	RM84750619
C351	CM01009427
R811	RD23903820
R812	RD24703826
D801	DD10000100
C811	CC31010431
C812	CC05009457
S21,22	SH12000296

TX-811112T PCB ASSEMBLY

D801 THRU 805	DD40000095
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TX-913312T PCB ASSEMBLY

S4 THRU S13	SH60000185
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2SC536
 2SC536
 1N4148
 CERAMIC FILTER CSB 800D
 CARBON-FILM 10k J 1/4W
 CARBON-FILM 15k J 1/4W
 CARBON-FILM 18k J 1/4W
 CARBON-FILM 33k J 1/4W
 ELECTROLYTIC 47uF 16V
 ELECTROLYTIC 47uF 50V
 1N4148
 RD15E
 2SC1570
 FLUORESCENT TUBE FIP 7F85

METAL-OXIDE 220J 1W
 SPARK-KILLER DE7150F472M
 1N4148
 RELAY G4W-2212P-US
 CARBON-FILM 1/2W 2.2M
 METAL-OXIDE VARISTOR TNR9G221K
 METAL-OXIDE VARISTOR TNR9G391K

FUSIBLE 10 1/2W
 CARBON-FILM 150 J 1/4W
 FUSIBLE 10 1/2W
 ELECTROLYTIC 100uF 10V
 ELECTROLYTIC 47uF 10V
 5P DIN JACK YKF51-5002
 8P DIN JACK YKF51-5001
 MINI JACK 3.5mm YKB21-5103A

CARBON-FILM 10 J 1/4W
 CARBON-FILM 220k J 1/4W
 CARBON-FILM 22k J 1/4W
 CARBON-FILM 270 J 1/4W
 CARBON-FILM 10k J 1/4W
 CARBON-FILM 4.7k J 1/4W
 ELECTROLYTIC 1uF 50V
 ELECTROLYTIC 3.3uF 50V
 CERAMIC 560pF 50V
 ELECTROLYTIC 100uF 10V
 CX20106A
 2SA608K
 PH302B
 CARBON-FILM 10k J 1/4W
 CARBON-FILM 22k J 1/4W
 CARBON-FILM 100 J 1/4W
 ELECTROLYTIC 10uF 25V
 LB1423
 1-KEY PUSH-SWITCH 4TR-2306
 HEADPHONE JACK C-3921#3

METAL-FILM MK2 475FECZ
 MYLAR 103 J 50V
 CARBON-FILM 390k J 1/4W
 CARBON-FILM 470k J 1/4W
 1N4148
 CERAMIC 0.001uF 50V
 CERAMIC 0.047uF 50V
 2-KEY PUSH-SWITCH 4TR-2227

LED LN224R

KEYBOARD SWITCH C-4177A01 RED

S14,15 SH60000203
R493 RD28100823

KEYBOARD SWITCH C-4177A03
CARBON-FILM 820 J 1/4W

TX-913322T PCB ASSEMBLY
S2,3 SH60000203

KEYBOARD SWITCH C-4177A03

TX-913332T PCB ASSEMBLY
R531,532 RD21501829
D531 THRU 539 DD40000769

CARBON-FILM 1.5k J 1/4W
LED LTL-1204A 2F RED

MISCELLANEOUS

AB00000146
PT27207100
FT00000035
LB07068000
CD00000231

BOTTOM PLATE 3TUL-6A#1
POWER TRANSFORMER TT-272GF
PLASTIC FOOT 4TR-1257 20x8
AM LOOP ANTENNA WITH CLIP TRL-345
AC CORD SPT-3 AWG#16 4TR-670#6
FUSE HOLDER S-N2056#6
MINI FUSE HOLDER S-N2250#12 (E1,E2,K1,K2)

F001 (120V) Δ FD00000100
 Δ FD00000124
 Δ AGC- $\frac{1}{2}$ /250V
3AG312.500/250V
3AG 500mA/250V

BUSSMAN
LITTLEFUSE
BEL

F001 (220V) Δ AGC- $\frac{3}{10}$ /250V
3AG312.300/250V
3AG 300mA/250V

BUSSMAN
LITTLEFUSE
BEL

F001 (240V) Δ AGC- $\frac{1}{4}$ /250V
3AG312.250/250V
3AG 250mA/250V

BUSSMAN
LITTLEFUSE
BEL

Δ SA00001450
 Δ SA00002223
 Δ SC00000120

AC OUTLET SOCKET S-I6519
AC INLET SOCKET 6100-31 (E1,E2,K1,K2)
AC-CORD STRAIN RELIEF SR-SKN-4
RF COAX CONNECTOR W/NUT 4TR-2439 (E1,E2,K1,K2)

SA00001760
TP20000237

4P ANTENNA TERMINAL YKD31-0201

OM00001943
OM00001955
OM10000383

BUTTON CONNECTOR 4TR-2216 13.5x13
BUTTON CONNECTOR 4TR-2217#1 13.5x17.8
BUTTON CONNECTOR 4TR-2217#2 13.5x17.8

AW00000459

DISPLAY WINDOW 4TR-2220#2

OM00001931

SENSOR WINDOW 4TR-2194

SN00000179

BUTTON SPRING 4TR-1988A#2 10F

AA80001230

FRONT PANEL 2TUN-1C#3

AA80001242

FRONT PANEL WHITE

KB10001205

KNOB/LED 4TR-2210A#1 34F

KB10001230

KNOB/LED 4TR-2210#3 34F.WHITE

KB10001217

KNOB 4TR-2211#1 23F

KB10001254

KNOB 4TR-2211#2 23F.WHITE

KB20001342

PUSH BUTTON 4TR-2212#1 19x19

KB20001410

PUSH BUTTON 4TR-2212#2 19x19.WHITE

KB20001354

PUSH BUTTON 4TR-2213#1 9F

KB20001421

PUSH BUTTON 4TR-2213#2 9F.WHITE

KB20001366

PUSH BUTTON 4TR-2214#1 9Fx2F

KB20001433

PUSH BUTTON 4TR-2214#2 9Fx2F.WHITE

BU00000645

BUTTON RING 4TR-2214#1 19x19

BU00000670

BUTTON RING 4TR-2215#2 19x19.WHITE

AG00000147

2TUN-1C#4
REMOTE CONTROL HANDSET RC-500II

AU00000610

UPPER COVER 3TR-2221B#1

WI08000140

ANTENNA, FM DIPOLE 4TR-1176#1

WI08000734

AUDIO CABLE 4TR-2463

WI08000916

8P DIN CORD 4TR-2325A#2 L1.2M

TN10003010

CARTON 4TR-2224#6

PL00000654

STYRENE INSIDE PACKING 2TR-2222A



Because of fire, shock and/or other hazards, parts identified by, and listed with, this sign MUST be replaced with the IDENTICAL FACTORY PART listed in the SERVICE PARTS LIST. No substitution with other "equivalent" parts can be made.

* = ROEDERSTEIN 1/4W 1%, ONLY, TO PRESERVE LOW NOISE CHARACTERISTICS

† = ROEDERSTEIN 1% ONLY, TO INSURE ACCURACY OF RIAA EQUALIZATION

GTP-500II SPECIFICATIONS

PREAMPLIFIER SECTION

Output Impedance	
Main Out	100 ohms
Tape Out	475 ohms
Output Level (Rated)	
Main Out	2.0V
Output Level (Maximum)	
Main Out	10.0V
Frequency Response ($\pm 0.5\text{dB}$)	
High Level	5Hz-65kHz
Phono	10Hz-50kHz
THD + Noise @ Rated Output	
High Level	0.004%
Phono	0.025%
IMD @ Rated Output (SMPTE)	
High Level	0.005%
Phono	0.006%
Signal-to-Noise @ Rated Output ("A" Weighted)	
High Level	100dB
Phono	84dB
Input Impedance	
High Level	35,000 ohms
Phono	47,000 ohms
Input Sensitivity @ Rated Output	
High Level	320mV
Phono	4mV
Tone Controls	
Bass (@ 20Hz)	$\pm 10\text{dB}$
Treble (@ 20kHz)	$\pm 9\text{dB}$
Loudness (Volume @ 9:00 o'clock)	
100Hz	+5dB
20Hz	+10dB
Crosstalk (@ 1kHz)	-80dB
Lo Filter (@ 20Hz)	-4dB
Hi Filter (@ 20kHz)	-3dB

FM Tuner Section

Usable Sensitivity (Mono)	2.1 μV /12.2dBf
Quieting Sensitivity (-50dB)	
Mono	2.6 μV /14dBf
Stereo	34 μV /36dBf
Signal-to-Noise @ 65dBf ("A" Weighted)	
Mono	81.5dB
Stereo	75.0dB
THD + Noise @ 65dBf (@ 1kHz)	
Mono	0.05%
Stereo	0.09%
Capture Ratio	1.7dB
Alternate Channel Selectivity ($\pm 400\text{kHz}$)	>75dB
IF Rejection	>90dB
Image Rejection ($\pm 400\text{kHz}$)	>80dB
Separation (@ 1kHz)	>50dB
Frequency Response ($\pm 0.5\text{dB}$)	30Hz-15kHz

AM Tuner Section

Sensitivity	300 μ V/m
Selectivity (\pm 10kHz)	>40dB
Image Rejection	>40dB
IF Rejection	>70dB
Signal-to-Noise (@ 5mV/m "A" Weighted)	45dB

General

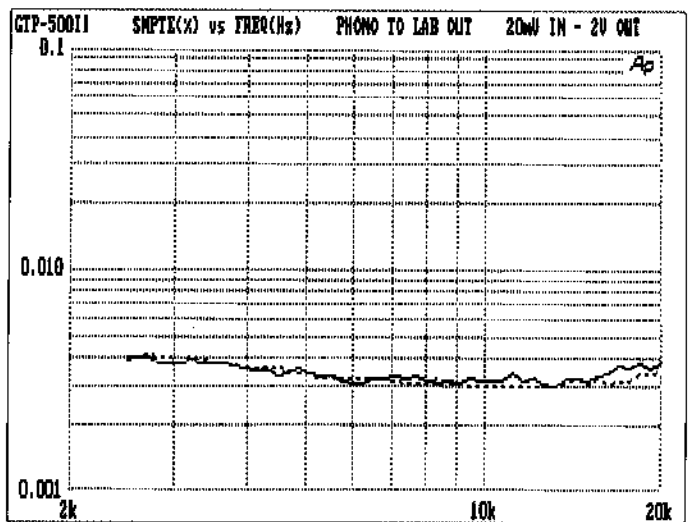
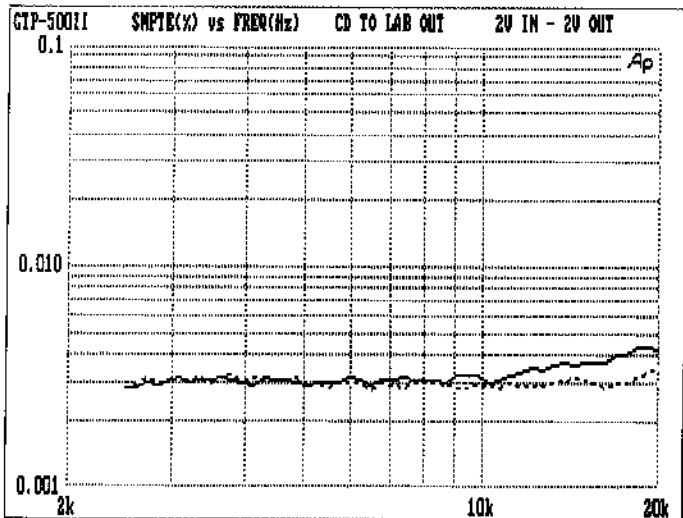
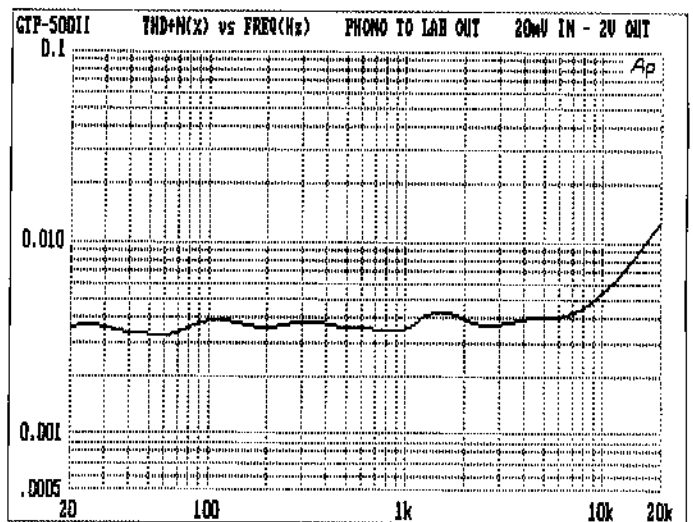
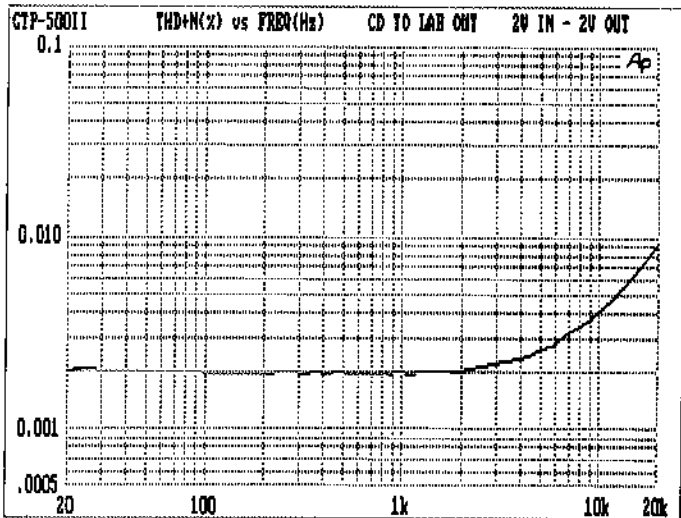
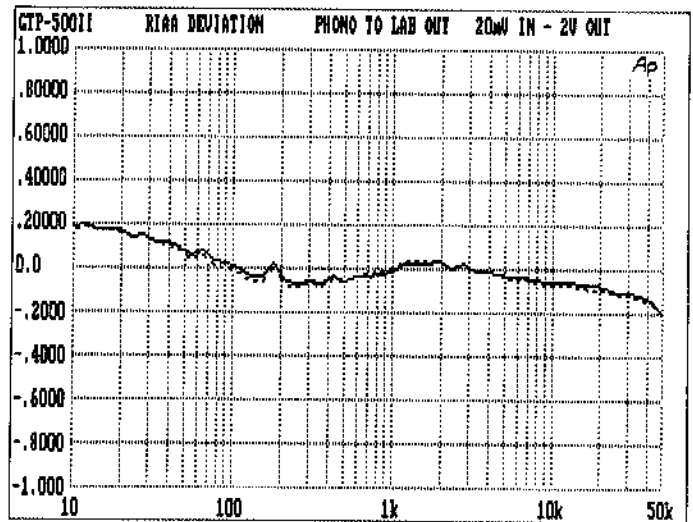
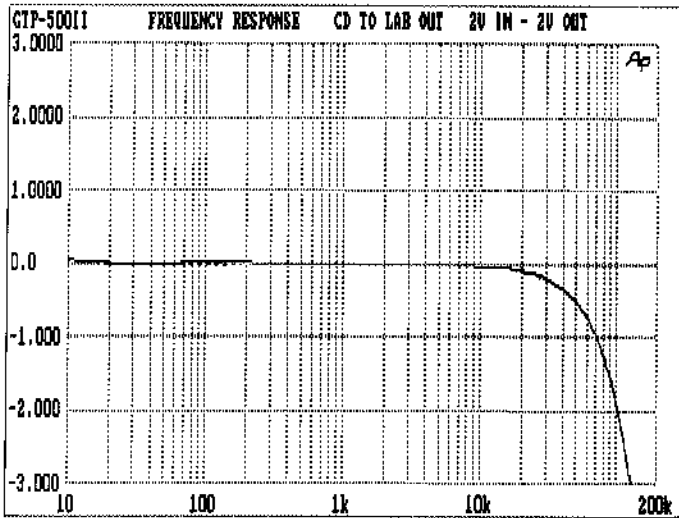
Power (available in other voltages on special order)	120VAC/50-60Hz
Power Consumption	20 Watts
Chassis Dimensions	17"(432mm)x11-3/8"(289mm)x3"(76mm)
Maximum Dimension	17"(432mm)x12-3/4"(324mm)x3-1/8"(81mm)
Weight	12.5 lbs. (5.7kg)
Weight,Packed	16.5 lbs. (7.5kg)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

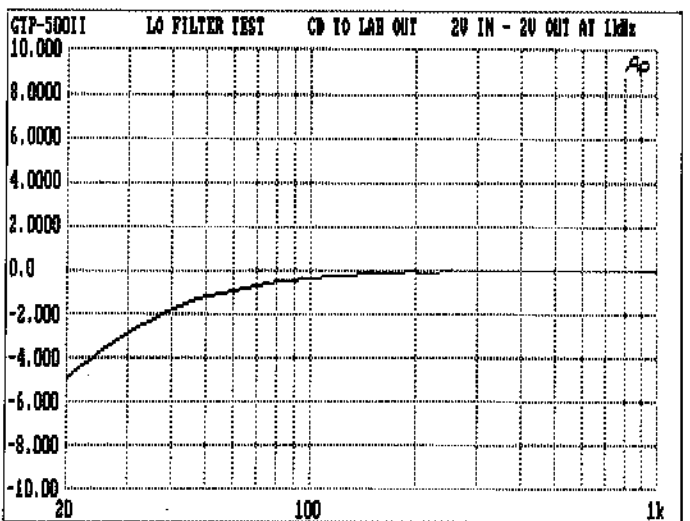
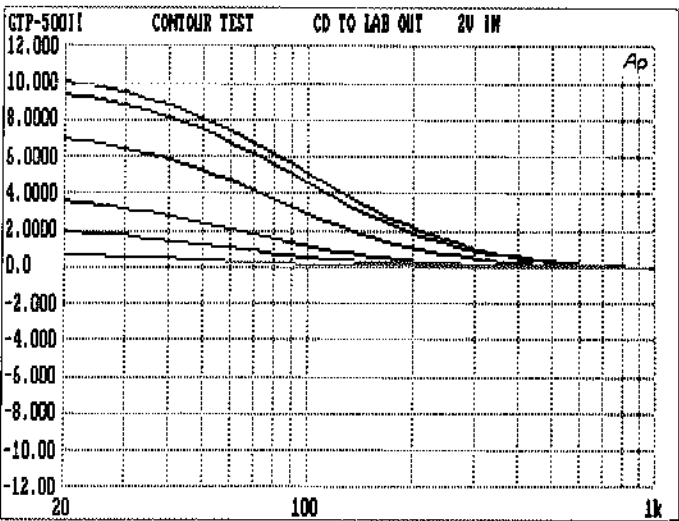
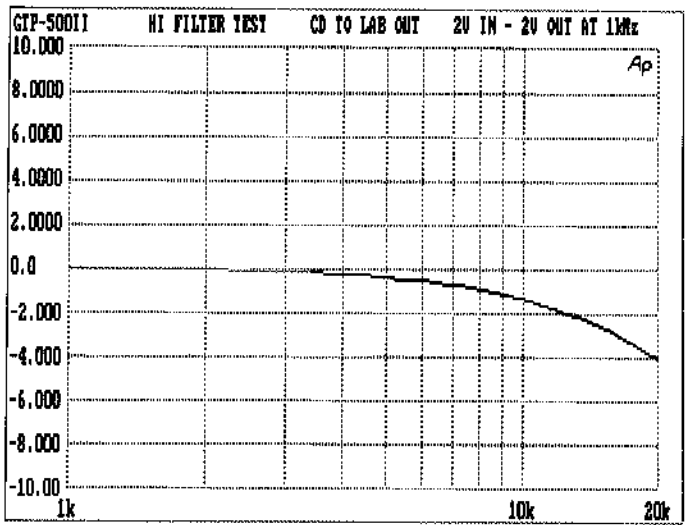
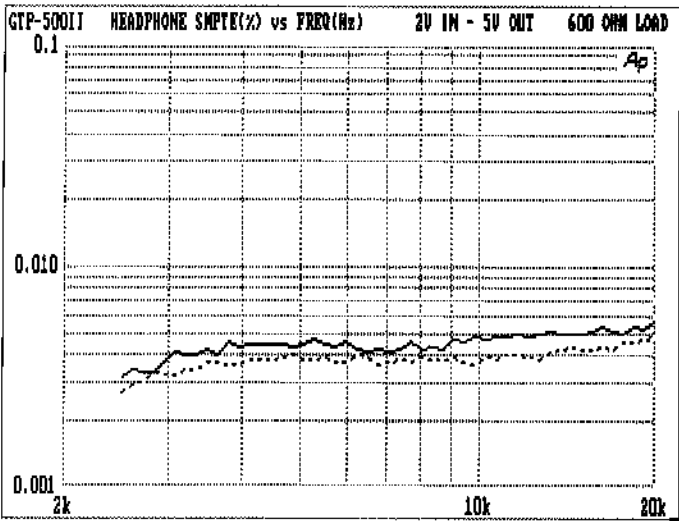
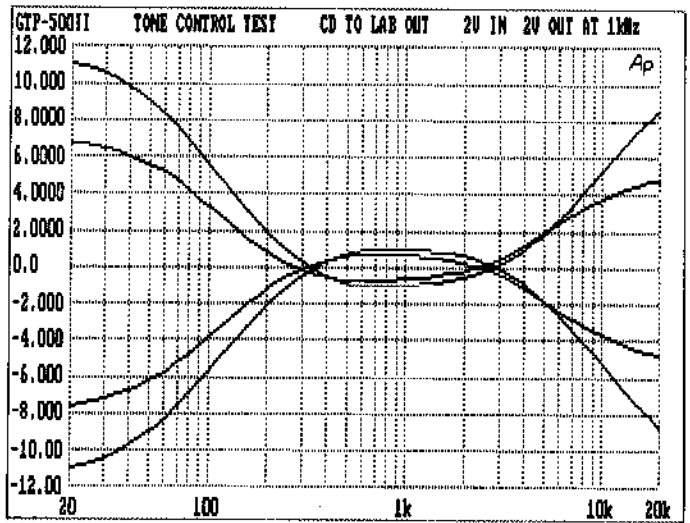
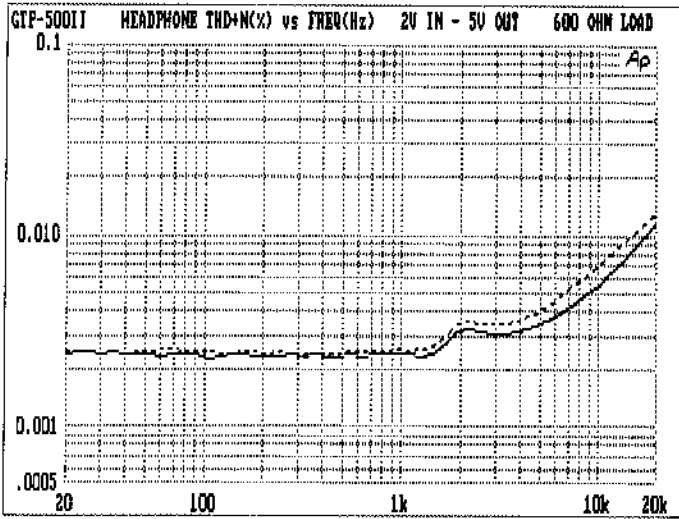
ADCOM®

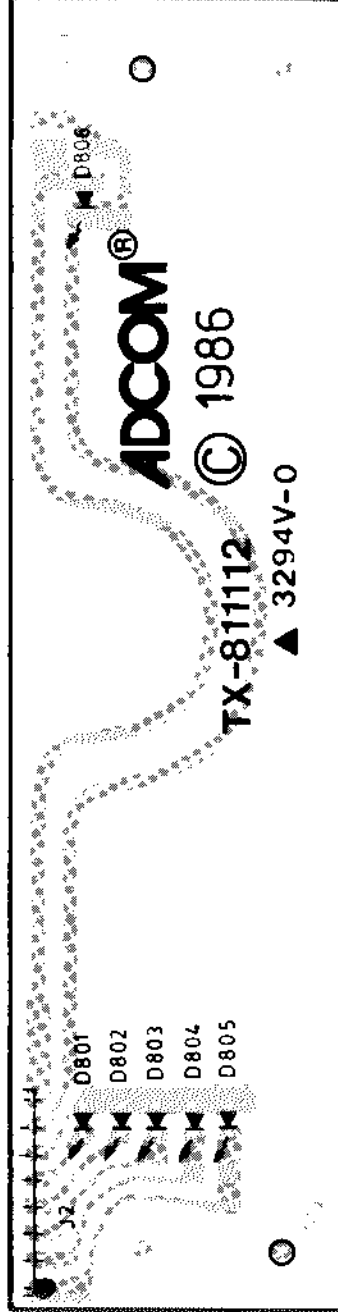
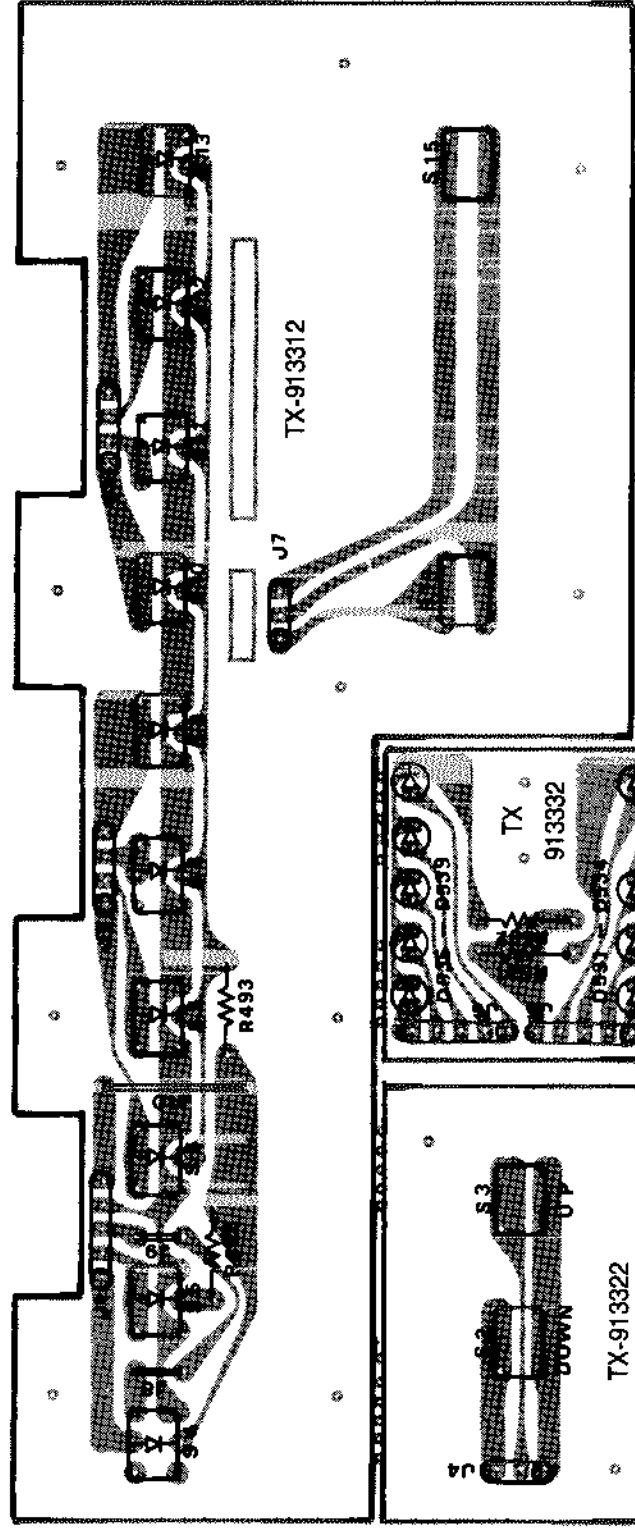
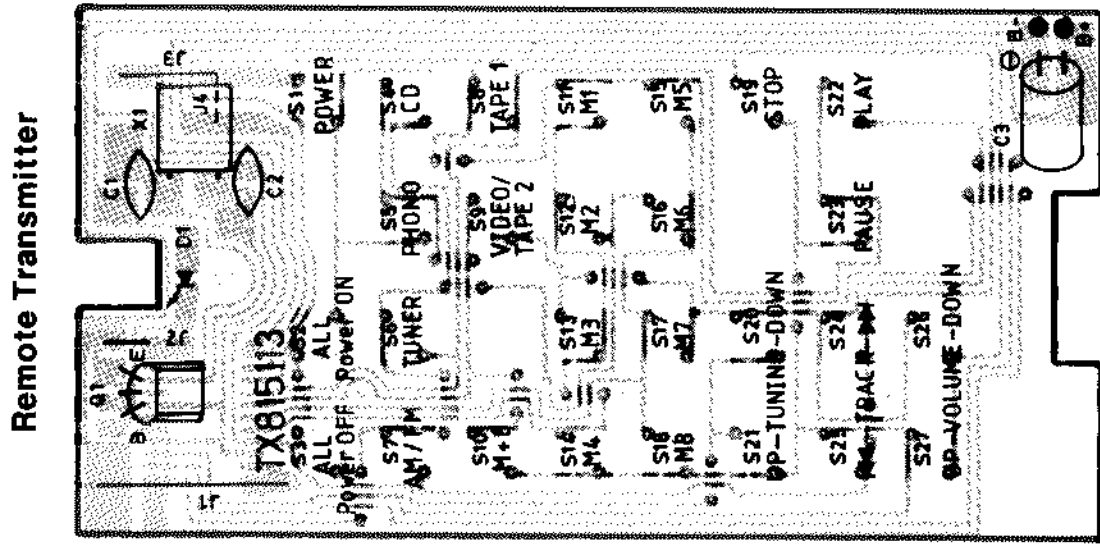
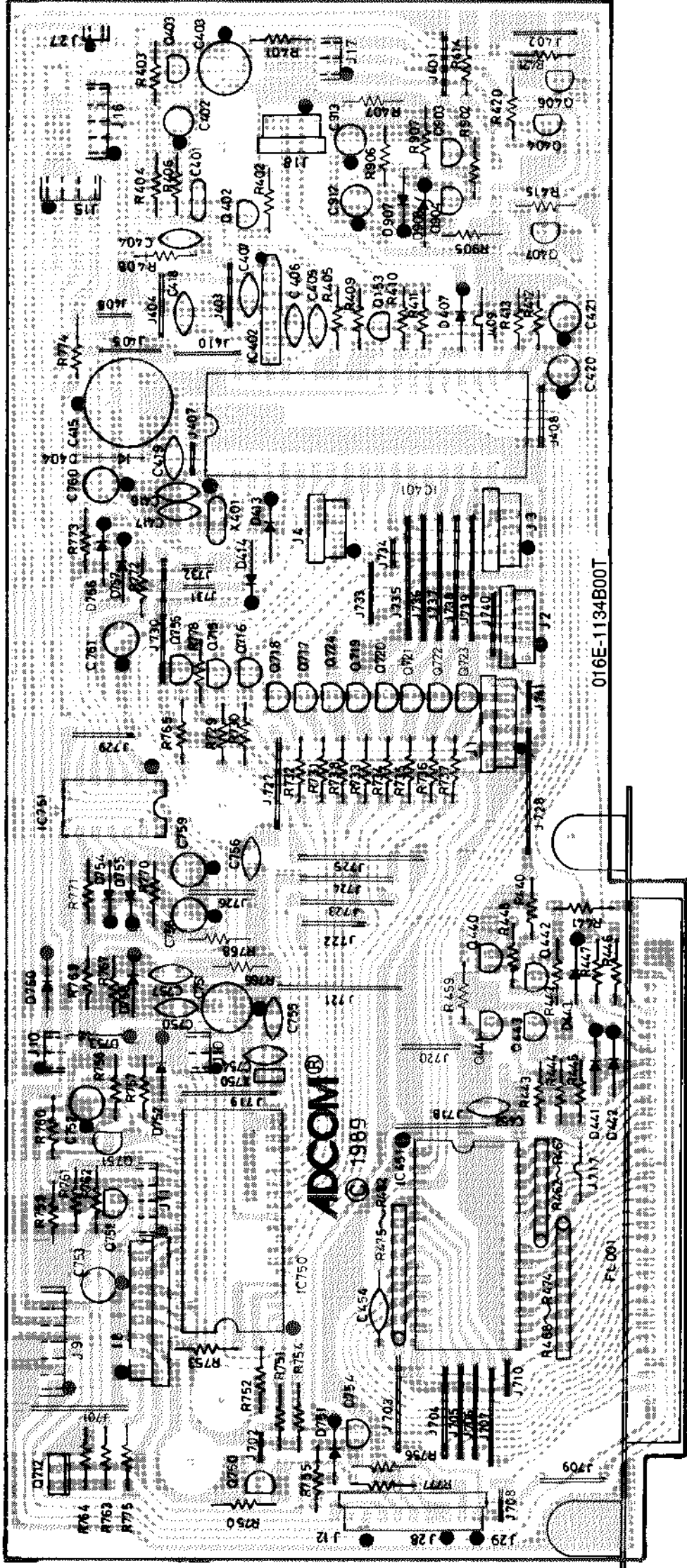
11 Elkins Road
East Brunswick, NJ 08816
Telephone (908) 390-1130
Fax (908) 390-9152

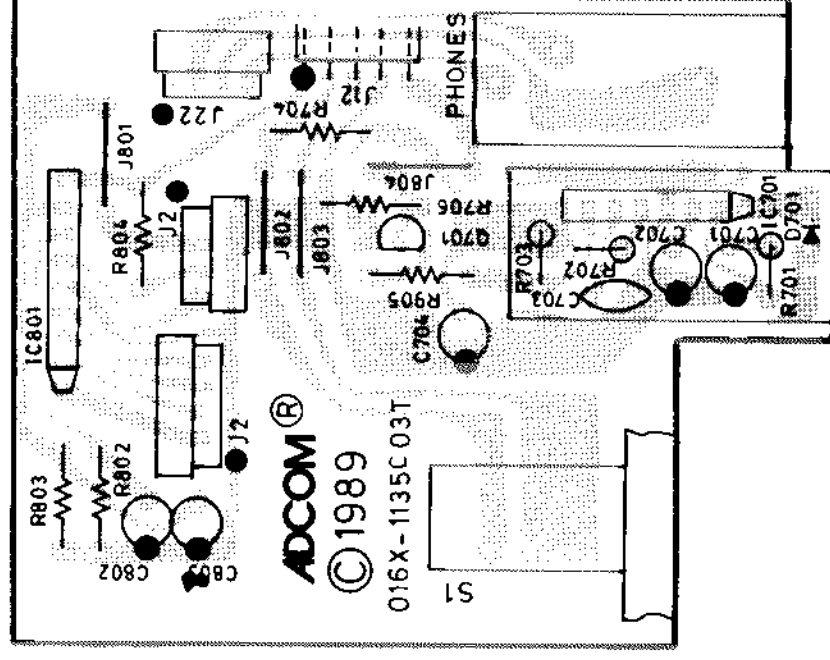
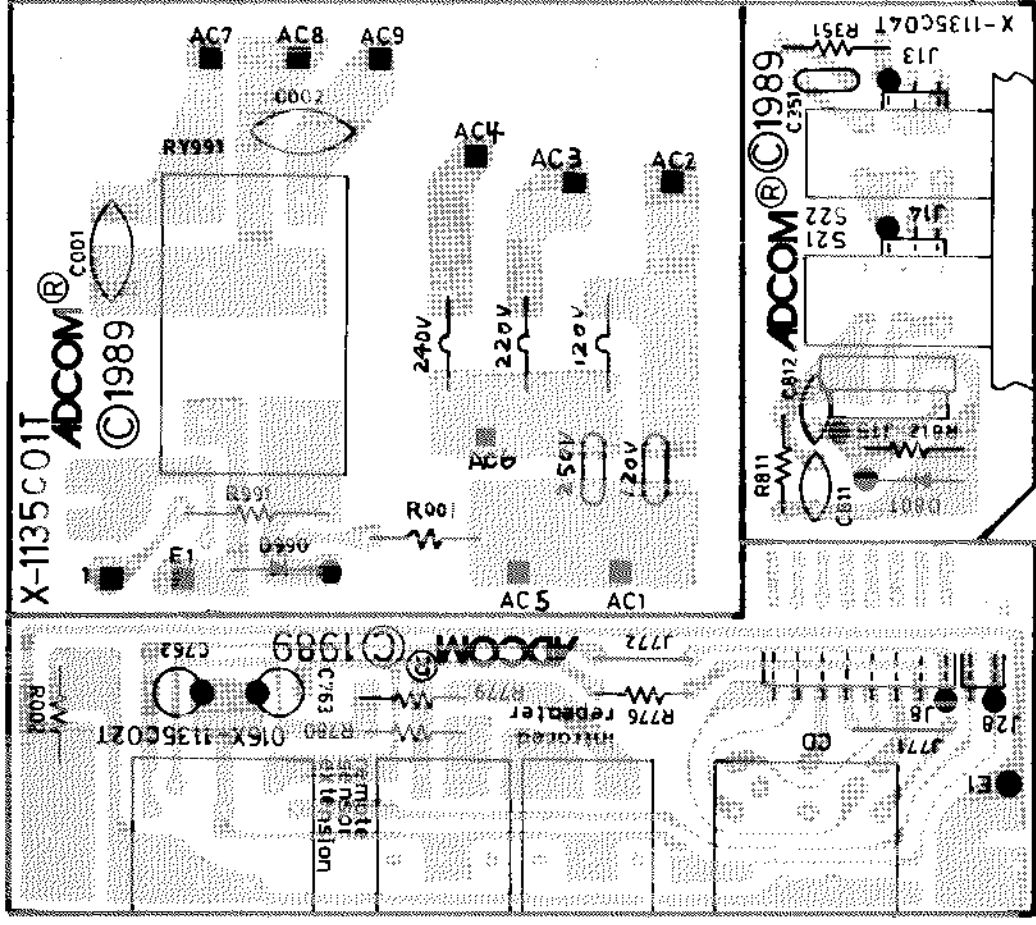
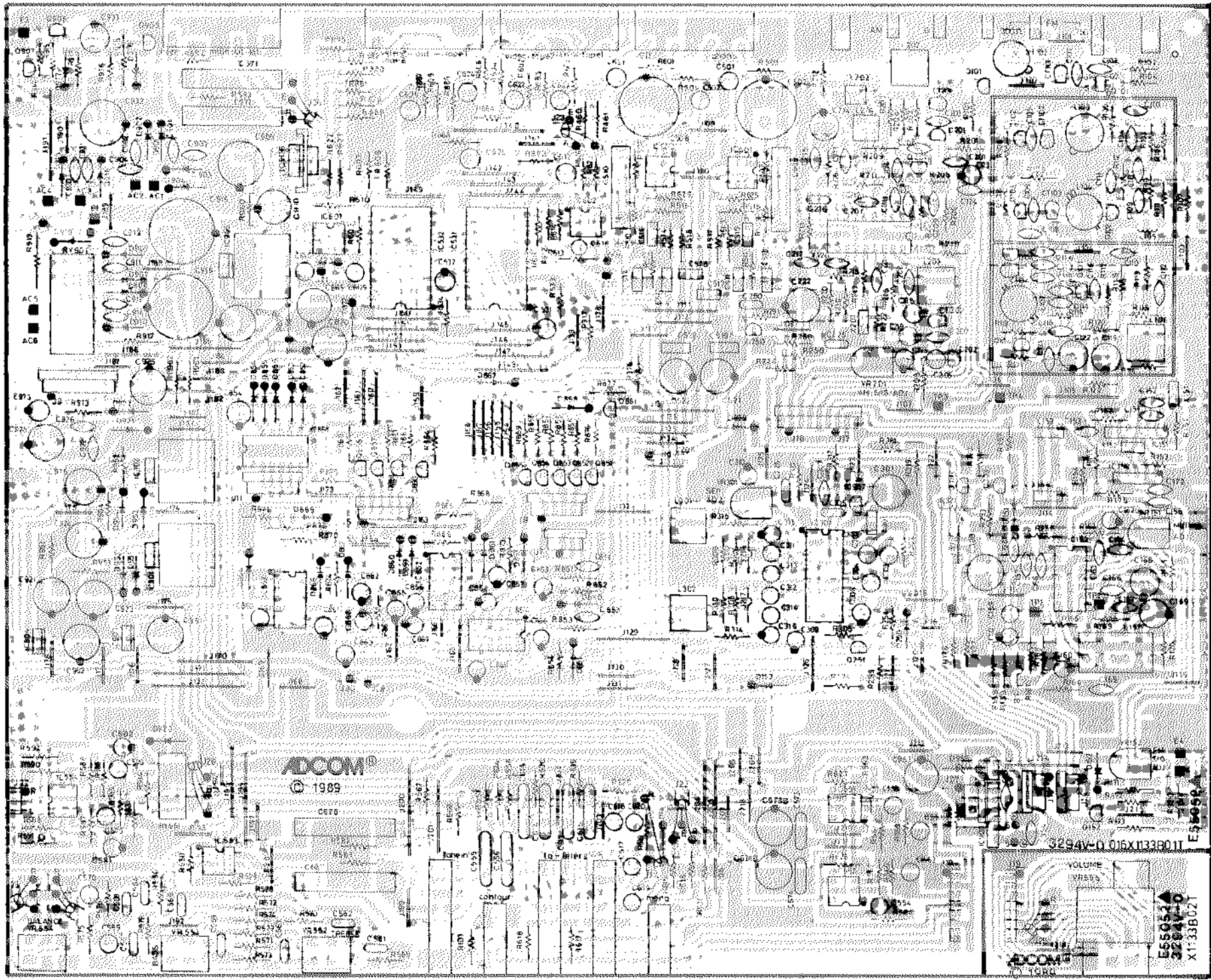
GTP-500II TYPICAL PERFORMANCE DATA



GTP-500II TYPICAL PERFORMANCE DATA

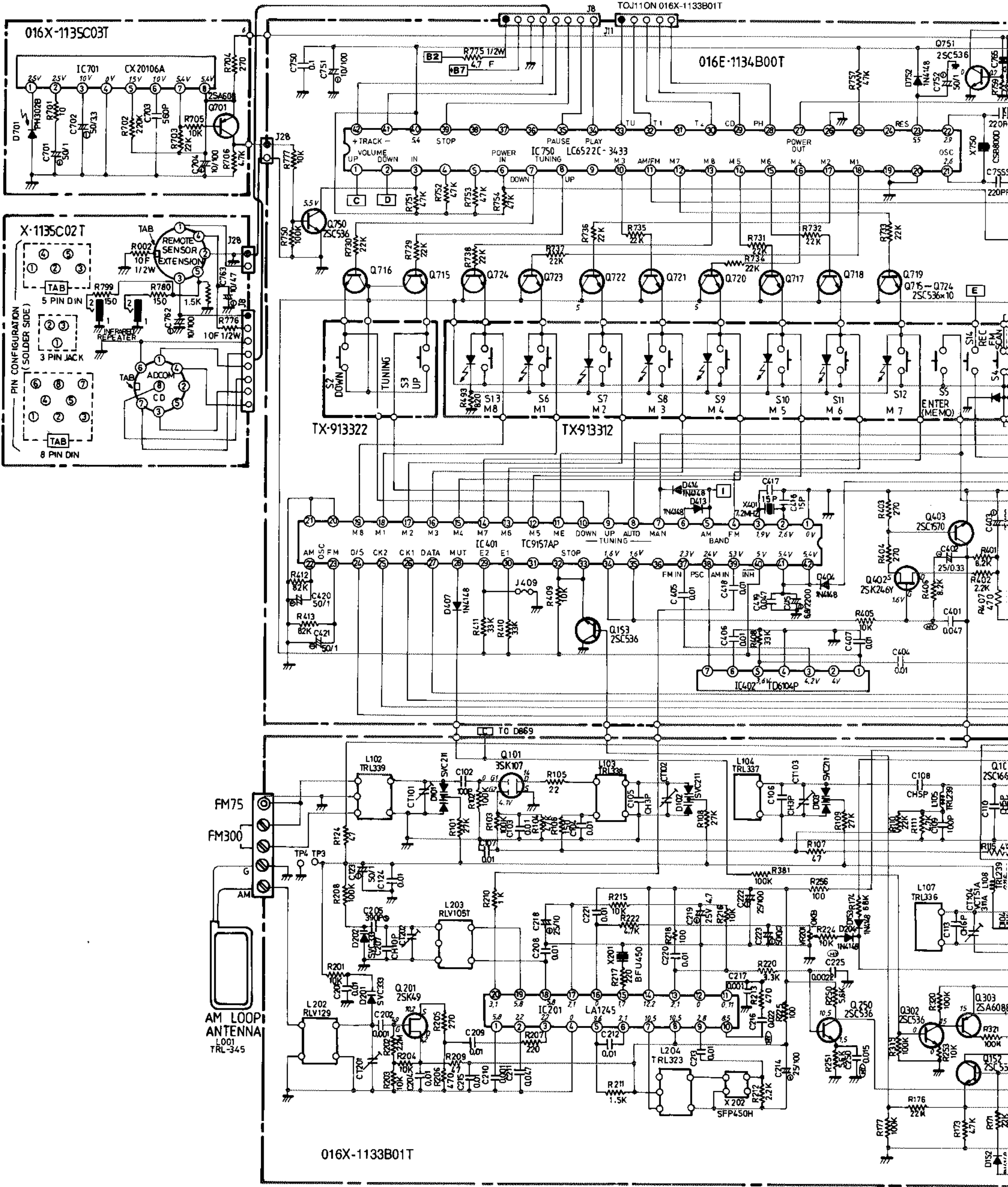






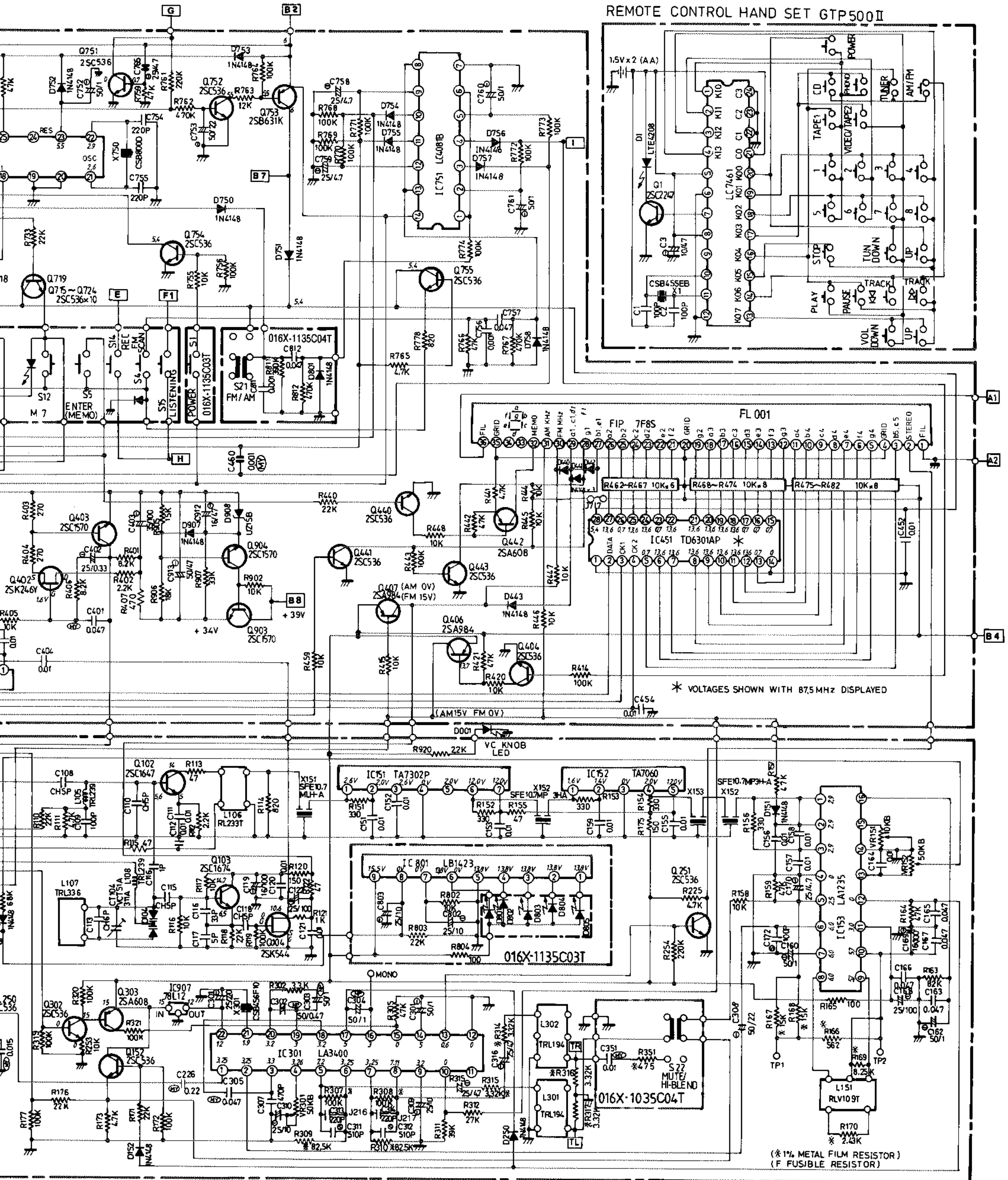
SCHEMATIC DIAGRAM GTP-500 II (1/2)

NOTE: ADCOM RESERVES THE RIGHT TO MODIFY CIRCUITRY AND/OR CHANGE TO UPGRADE PRODUCT WITHOUT PRIOR NOTICE OR INCURRING ANY



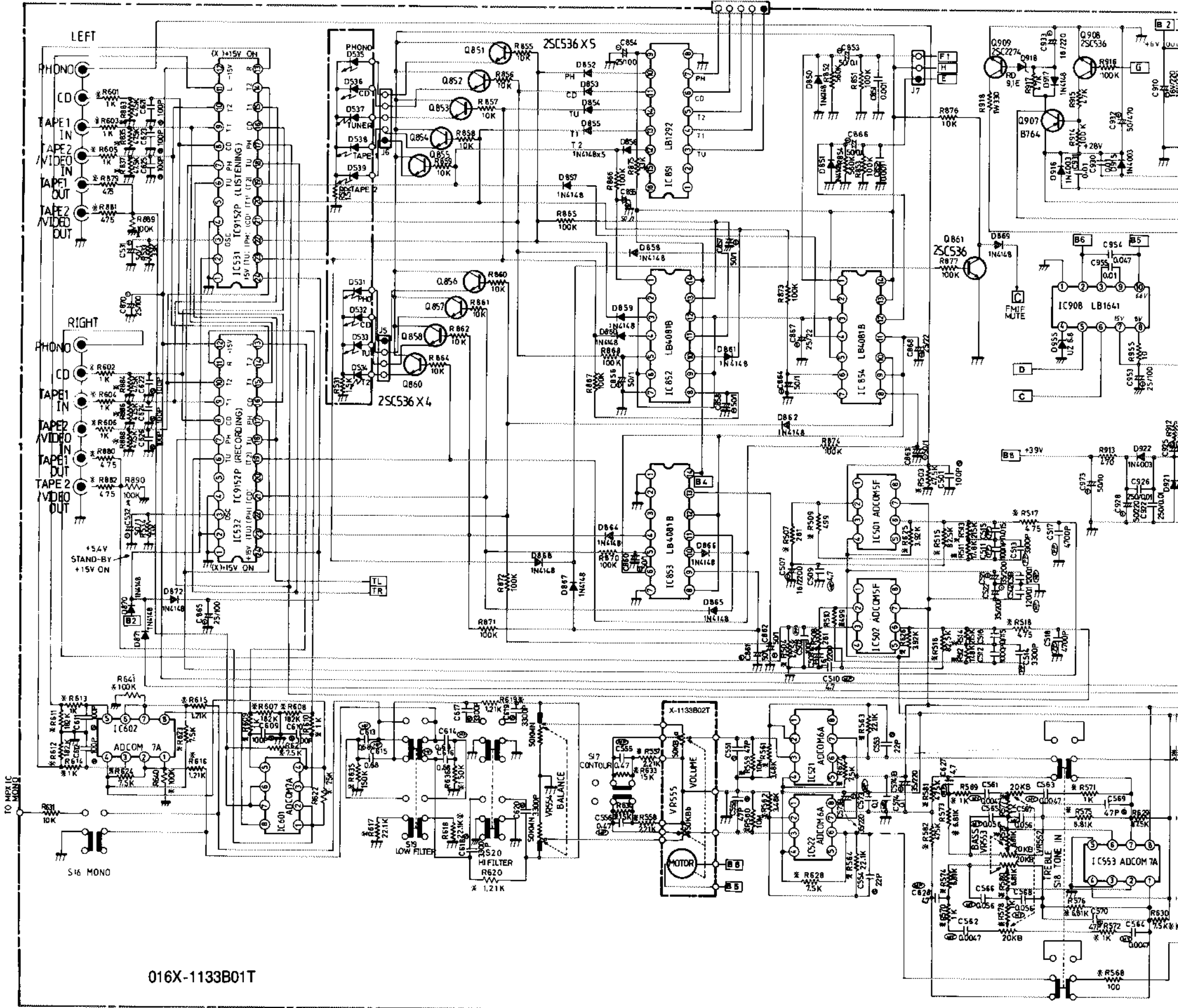
MODIFY CIRCUITRY AND/OR CHANGE COMPONENTS
PRIOR NOTICE OR INCURRING ANY LIABILITY.

REMOTE CONTROL HAND SET GTP500II



* VOLTAGES SHOWN WITH 87.5MHZ DISPLAYED

(* 1% METAL FILM RESISTOR)
(F FUSIBLE RESISTOR)



016X-1133B01T

NOTE: ADCOM RESERVES THE RIGHT TO MODIFY CIRCUITRY AND/OR CHANGE COMPONENTS TO UPGRADE PRODUCT WITHOUT PRIOR NOTICE OR INCURRING ANY LIABILITY.

