

SERVICE MANUAL

ADCOM®

PREAMPLIFIER

GFP-555 II

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ADCOM®

TECHNICAL SERVICE DEPARTMENT

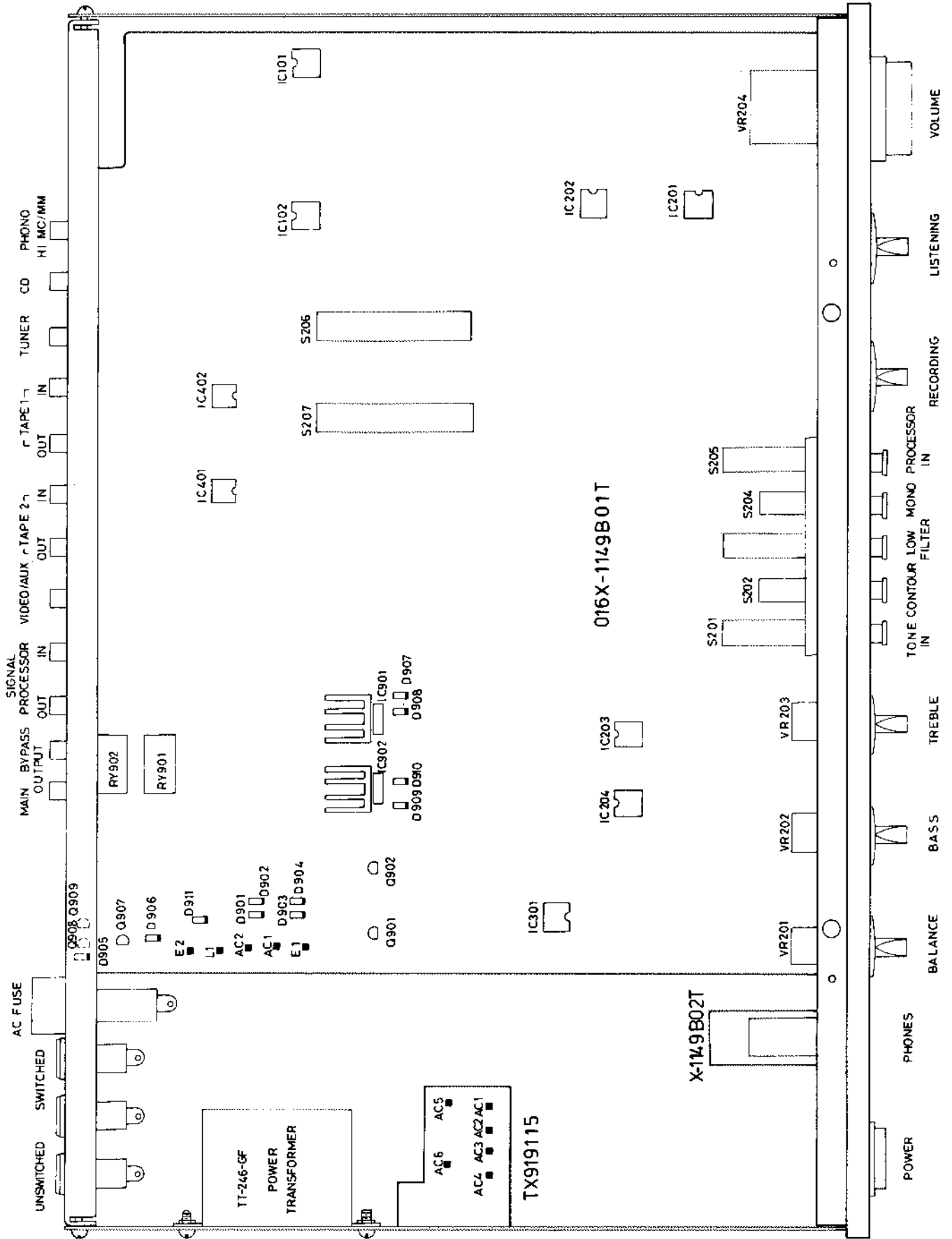
11 ELKINS ROAD

EAST BRUNSWICK, NJ 08816

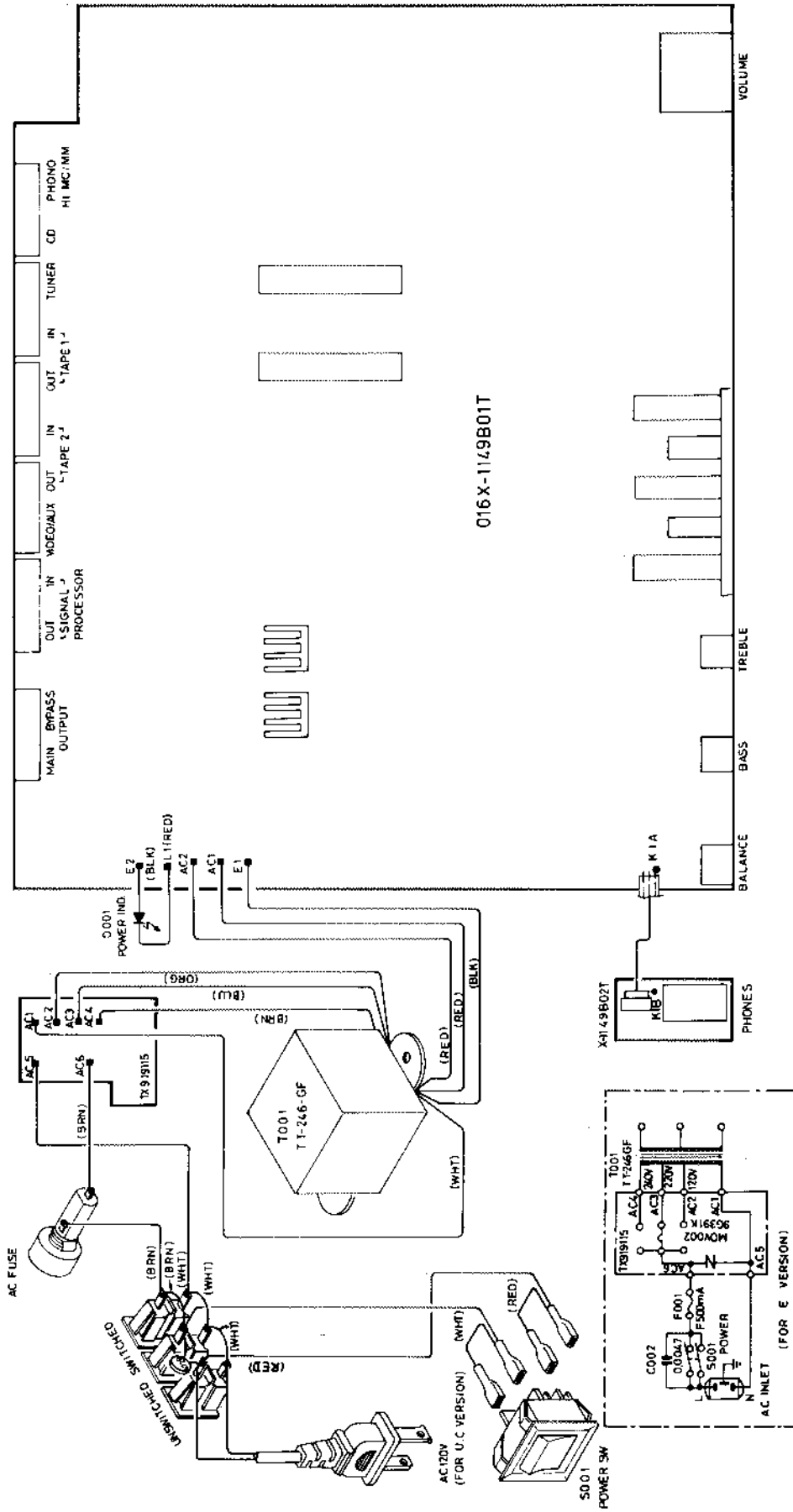
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CHASSIS LAYOUT GFP-555II



WIRING DIAGRAM GFP-555II



ADCOM GFP-555II SERVICE PARTS LIST

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
X-1149B01T PCB ASSEMBLY		
R001	RM11009922	METAL-OXIDE 10 J ½W
R103,104	RM84752616	METAL-FILM MK2 47K5FECZ*
R107,108	RM82610612	METAL-FILM MK2 261RFECZ*
R109,110	RM84990618	METAL-FILM MK2 499RFECZ*
R111,112	RM81782610	METAL-FILM MK2 17K8FECZ*
R113,114	RM82153614	METAL-FILM MK2 215KFECZ*
R115,116	RM88252614	METAL-FILM MK2 82K5FECZ*
R117,118	RM84750619	METAL-FILM MK2 475RFECZ*
R119,120	RM87501618	METAL-FILM MK2 07K5FECZ*
C001	CC84709445	CERAMIC ECFF1H473MR
C101,102	CP51011300	POLYPROPYLENE KP100V101F†
C107,108	CE72204161	ELECTROLYTIC ECEA1CF222
C109,110	CP44707332	METALLIZED POLYESTER ECQE1475F
C111,112	CP53310408	POLYPROPYLENE KP63V332F†
C113,114	CP51010306	POLYPROPYLENE KP100V102F†
C115,116	CP51509404	POLYPROPYLENE KP63V153F†
C117,118	CP54710406	POLYPROPYLENE KP63V472F†
C119,120	CY16808426	STACKED METAL-FILM ECQV1H684JZ
C121,122	CE74705359	ELECTROLYTIC ECEA1VF471
IC101,102	IC00002326	ADCOM 8A
R205,206	RM84750619	METAL-FILM MK2 475RFECZ*
R207,208	RM82211614	METAL-FILM MK2 2K21FECZ*
R208,209	RM81005617	METAL-FILM MK2 010MFECZ*
R211,212	RM82491611	METAL-FILM MK2 2K49FECZ*
R213,214	RM82212618	METAL-FILM MK2 22K1FECZ*
R217A,218A	RM81000619	METAL-FILM MK2 100RFECZ*
R217B,218B	RM82212618	METAL-FILM MK2 22K1FECZ*
R219,220	RM84752616	METAL-FILM MK2 47K5FECZ*
R221,222	RM82212618	METAL-FILM MK2 22K1FECZ*
R223,224	RM86811612	METAL-FILM MK2 6K81FECZ*
R225,226	RM81001612	METAL-FILM MK2 001KFECZ*
R227,228	RM86811612	METAL-FILM MK2 6K81FECZ*
R229,230	RM81001612	METAL-FILM MK2 001KFECZ*
R231,232	RM86811612	METAL-FILM MK2 6K81FECZ*
R233,234	RM81001612	METAL-FILM MK2 001KFECZ*
R235,236	RM87501618	METAL-FILM MK2 07K5FECZ*
R239,240	RM81000619	METAL-FILM MK2 100RFECZ*
R241,242	RM87501618	METAL-FILM MK2 07K5FECZ*
R243,244	RM81502613	METAL-FILM MK2 015KFECZ*
C201,202	CS33312416	STYROL SRA330G50
C203 THRU 206	CP42207332	METALLIZED POLYESTER ECQE1225KF
C207,208	CP44707332	METALLIZED POLYESTER ECQE1475KF
C209 THRU 212	CP35609412	POLYPROPYLENE ECQP1H563GZ
C213 THRU 216	CP34710413	POLYPROPYLENE ECQP1H472GZ
C217,218	CS34712414	STYROL SRA470G50
C219,220	CP44708324	METALLIZED POLYESTER ECQE1474JF
C221,222	CE74705359	ELECTROLYTIC ECEA1VF471
C223,224	CS31512414	STYROL SRA150F50
C225,226	CY16808426	STACKED METAL-FILM ECQV1H684JZ
IC201,202	IC00002144	ADCOM 6A
VR201	RV10001024	POTENTIOMETER, BALANCE 4TR-2246 50KMN
VR202,203	RV10000433	POTENTIOMETER, TONE 4TR-1742 20KBx2
VR204	RV10001036	POTENTIOMETER, VOLUME 051C-4170A07 50Kx2
S201 THRU 205	SH15000295	5-KEY PUSH-SWITCH 4TR-2716
S206,207	SH60000161	FLEX-SLIDE SWITCH C-3440
R301,302	RM86811612	METAL-FILM MK2 6K81FECZ*
R303,304	RM81502613	METAL-FILM MK2 015KFECZ*
R305,306	RM81002616	METAL-FILM MK2 010KFECZ*
R307,308	RM82742619	METAL-FILM MK2 27K4FECZ*
R309,310	RM84999610	METAL-FILM MK2 499RFECZ*

C303,304
 IC301
 R401,402
 R403,404
 R405,406
 R407,408
 R409,410
 R411,412
 R413,414
 R415,416
 R417 THRU 420
 C401,403
 C402,404
 IC401,402
 R901
 R910
 R911,912
 R913
 R914
 R915
 R916,917
 R918
 R919
 R920
 R921
 R925
 C901
 C905,906
 C907,908
 C909,910
 C913
 C917,918
 C919,920
 C912
 RY901,902
 Q901
 Q902
 Q907 THRU 909
 IC901
 IC902
 D901 THRU 904
 D905
 D906
 D907 THRU 911

CS31011413
 IC00001474
 RM81004613
 RM81001612
 RM87501618
 RM84750619
 RM81004613
 RM81001612
 RM87501618
 RM84750619
 RM81003610
 CE74705359
 CY12208428
 IC00002181
 RM83921613
 RM81001612
 RM81272619
 RM81001612
 RM81002616
 RM82211614
 RM81502613
 RM82211614
 RM84999610
 RM85622613
 RM83320617
 RM83321610
 CK00000060
 CE74704458
 CY12208428
 CE72205359
 CE72206509
 CE74705359
 CE71004255
 CE71005259
 LY00000228
 TR10000059
 TR30000080
 TR30000248
 IC00002168
 IC00002156
 DD80000010
 DD20000132
 DD80000021
 DD80000010
 JP04000187
 JP04000205

STYROL SRA101G50
 NJM4556D
 METAL-FILM MK2 001MFE CZ*
 METAL-FILM MK2 001KFE CZ*
 METAL-FILM MK2 07K5FE CZ*
 METAL-FILM MK2 475RFE CZ*
 METAL-FILM MK2 001MFE CZ*
 METAL-FILM MK2 001KFE CZ*
 METAL-FILM MK2 07K5FE CZ*
 METAL-FILM MK2 475RFE CZ*
 METAL-FILM MK2 100KFE CZ*
 ELECTROLYTIC ECEA1VF471
 STACKED METAL-FILM ECQV1H224JZ
 ADCOM 7A
 METAL-FILM MK2 3K92FE CZ*
 METAL-FILM MK2 001KFE CZ*
 METAL-FILM MK2 12K7FE CZ*
 METAL-FILM MK2 001KFE CZ*
 METAL-FILM MK2 010KFE CZ*
 METAL-FILM MK2 2K21FE CZ*
 METAL-FILM MK2 015KFE CZ*
 METAL-FILM MK2 2K21FE CZ*
 METAL-FILM MK2 49R9FE CZ*
 METAL-FILM MK2 56K2FE CZ*
 METAL-FILM MK2 332RFE CZ*
 METAL-FILM MK2 3K32FE CZ*
 SPARK KILLER FZ472P
 ELECTROLYTIC ECES1HG472N
 STACKED METAL-FILM ECQV1H224JZ
 ELECTROLYTIC ECEA1VF221
 ELECTROLYTIC ECEA1HFS220
 ELECTROLYTIC ECEA1VF471
 ELECTROLYTIC ECEA1EF102
 ELECTROLYTIC ECEA1EFS101
 RELAY RY24W
 2SB764
 2SD863
 2SC945
 ADCOM J3
 ADCOM J1
 1N4003
 RD9.1B
 1N4148
 1N4003
 4P PIN JACK 4TR-2672#1
 4P PIN JACK 4TR-2672#3

X-1149B02T PCB ASSEMBLY

JH00000147

HEADPHONE JACK C-3921#3

TX-919115 PCB ASSEMBLY

MOV001 Δ DD30000104
 MOV002 Δ DD30000116

METAL-OXIDE VARISTOR TNR9G221K (U1,U2)
 METAL-OXIDE VARISTOR TNR9G391K
 (U3,U4,K1,K2,E1,E2)

MISCELLANEOUS

T001 Δ AB00000146
 Δ PT24607102
 FT00000035
 SH60000264
 Δ SA00001450
 Δ SA00002223
 Δ FD00000100
 Δ FD00000124

BOTTOM COVER 3TUL-6A#1
 POWER TRANSFORMER TT-246GF
 PLASTIC FOOT 4TR-1257 20x8
 FLEX ROTARY SWITCH C-4175A10
 AC-OUTLET SOCKET S-I6519
 AC-OUTLET SOCKET 6100-3 (K1,K2,E1,E2)
 FUSE HOLDER S-N2056#06
 MINI-FUSE HOLDER S-N2250#12
 (E1,E2,K1,K2)

F001 (120V) §	△ AGC-½/250V 3AG312.500/250V 3AG 500mA/250V	BUSSMAN LITTELFUSE BEL
F001 (220V) §	△ AGC-¾/250V 3AG312.300/250V 3AG 300mA/250V	BUSSMAN LITTELFUSE BEL
F001 (240V) §	△ AGC-¼/250V 3AG312.250/250V 3AG 250mA/250V	BUSSMAN LITTELFUSE BEL
C002	△ CD00000231	AC CORD SPT-3 AWG#16 4TR-670#6
	△ SC00000120	AC-CORD STRAIN RELIEF SR-5KN-4
D001	△ CK00000035	SPARK KILLER DE7150F472M
	OM00001943	BUTTON CONNECTOR 4TR-2216 13.5x13
	DD40000757	LED LTL-2201A 3F RED
	SN00000179	BUTTON SPRING 4TR-1988#2 1 0F
	AA80001448	FRONT PANEL 2TUL-1A#3
	AA80001450	FRONT PANEL 2TUL-1A#4 WHITE
	KB10001217	KNOB 4TR-2211#1 23F
	KB10001254	KNOB 4TR-2211#2 23F WHITE
	KB10001229	KNOB 4TR-2210A#2 34F
	KB10001242	KNOB 4TR-2210A#4 34F WHITE
	KB20001354	PUSH BUTTON 4TR-2213#1 9F
	KB20001421	PUSH BUTTON 4TR-2213#2 9F WHITE
	BU00000657	LED RING 4TR-2209#1 9F
	BU00000669	LED RING 4TR-2209#2 9F WHITE
S001	△ SH40000180	POWER SWITCH CARLING RGSCC711-R-B-B-O BLACK
S001	△ SH40000192	POWER SWITCH CARLING RGSCC711-R-W-W-O WHITE
	AU00000610	TOP COVER 3TR-2221B#1
	WI08000734	AUDIO CABLE 4TR-2463
	PL00000654	STYRENE INSIDE PACKING 2TR-2222A
	TN10003343	CARTON 4TR-2224#8

* ROEDERSTEIN ¼W 1%, **ONLY**, TO PRESERVE LOW NOISE CHARACTERISTICS

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

§ The fuses listed, and their time-current blowing points, have been carefully selected and thoroughly tested to deliver optimal performance while still accomplishing their protective functions. Replace these fuses, individually, only with the specific types listed. **DO NOT USE ANY SUBSTITUTE FUSES WITH DIFFERENT RATINGS, TIME-CURRENT CURVES OR VALUES.** These may cause serious damage to the amplifier circuits and **MAY CREATE A FIRE HAZARD.**

△ 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 substitutions with other "equivalent" parts can be made.

GFP-555II SPECIFICATIONS

Output Impedance	
Bypass Output	100 ohms
Main Output	100 ohms
Tape Out	475 ohms
Output Level (Rated)	
Bypass Output	2.0V
Main Output	2.0V
Output Level (Maximum)	
Bypass Output	10.0V
Main Output	10.0V
Frequency Response (± 0.5 dB)	
High Level	5Hz-85kHz
Phono	5Hz-60kHz
THD + Noise (@ Rated Output, 20Hz-20kHz)	
High Level	0.003%
Phono	0.02%
IMD (SMPTE, @ Rated Output)	
High Level	0.004%
Phono	0.006%
Signal-to-Noise (@ Rated Output, "A" Weighted)	
High Level	≥ 100 dB
Phono	≥ 90 dB
Input Impedance	
High Level	22,000 ohms
Phono	47,000 ohms/100pF
Input Sensitivity (@ Rated Output)	
High Level	200mV
Phono	2.3mV
RIAA Accuracy (20Hz-20kHz)	± 0.1 dB
Tape Out THD + Noise (@ 2.0V, 20Hz-20kHz)	0.003%
Tape Out IMD (SMPTE) @ 2.0V	0.002%
Tone Controls	
Bass (20Hz)	± 10 dB
Treble (20kHz)	± 9 dB
Loudness (Volume Control @ 9:00 o'clock)	
100Hz	+5dB
20Hz	+10dB
Crosstalk (1kHz)	-95dB
Separation (1kHz, @ Rated Output)	≥ 75 dB
Low Filter (20Hz)	-3.5dB

GENERAL

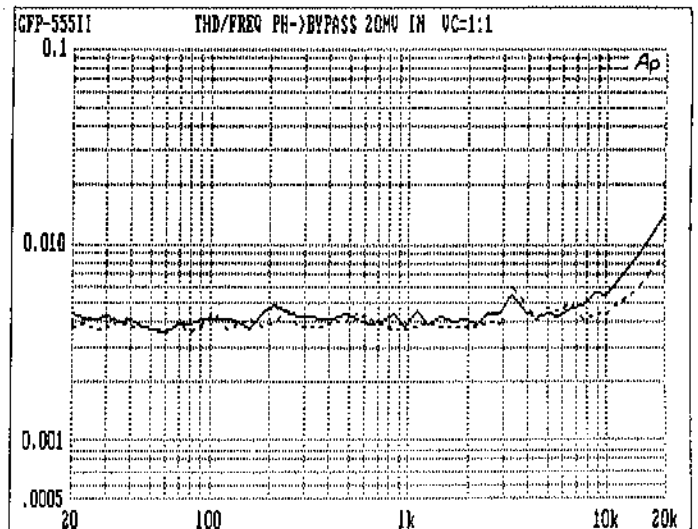
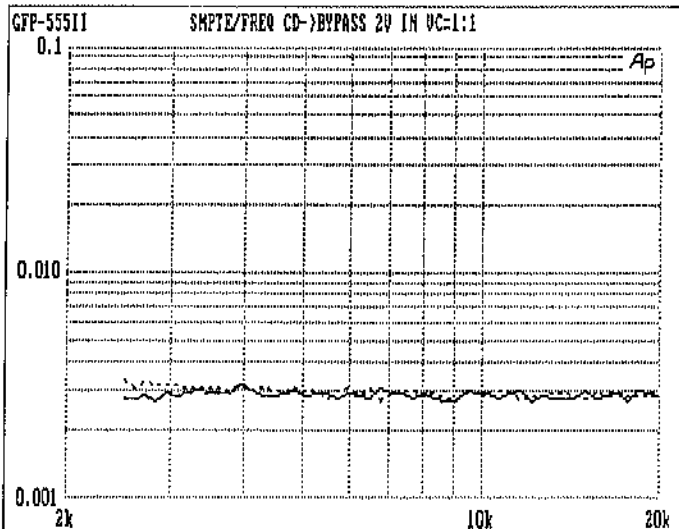
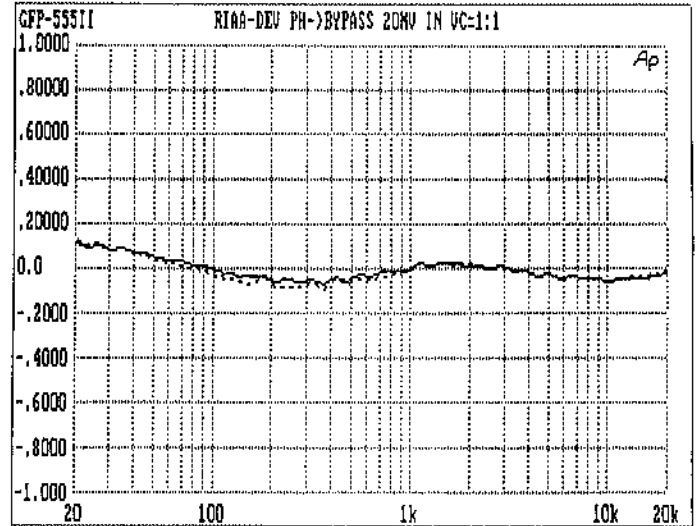
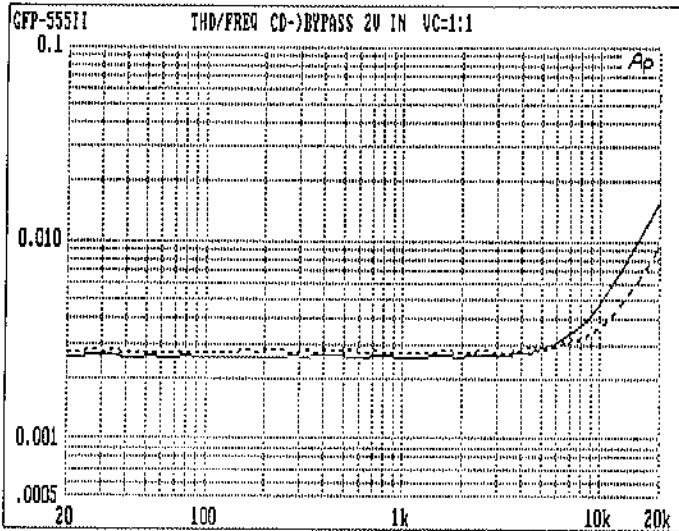
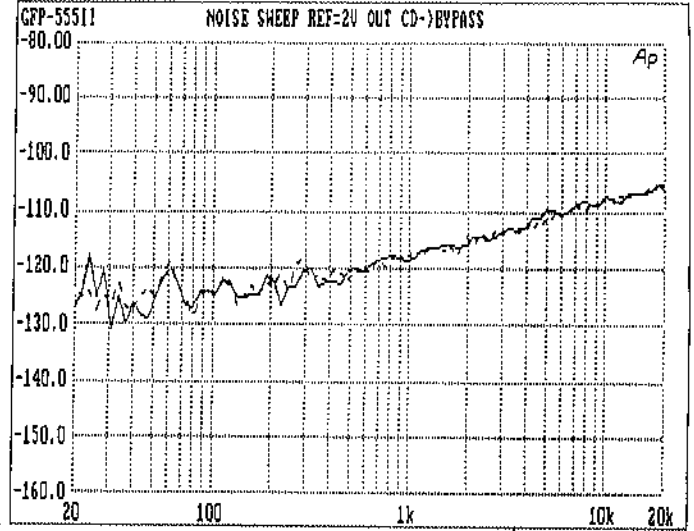
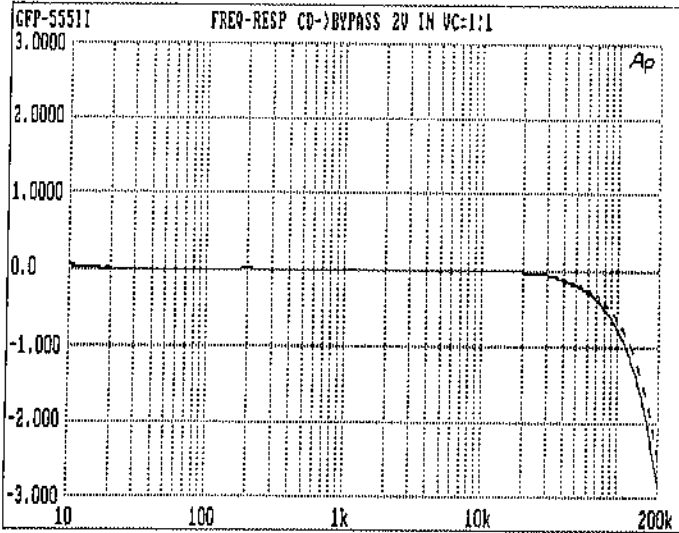
Power (available in 220V or 240V on special order)	120VAC/50-60Hz
Power Consumption	10 watts max.
Chassis Dimensions	17"(432mm) x 11 $\frac{3}{8}$ " (289mm) x 3" (76mm)
Maximum Dimensions	17"(432mm) x 12 $\frac{3}{16}$ " (319mm) x 3 $\frac{1}{4}$ " (83mm)
Weight	11.5 lbs. (5.2 kg)
Weight, Packed	15 lbs. (6.8 kg)

Specifications subject to change
without prior notice.

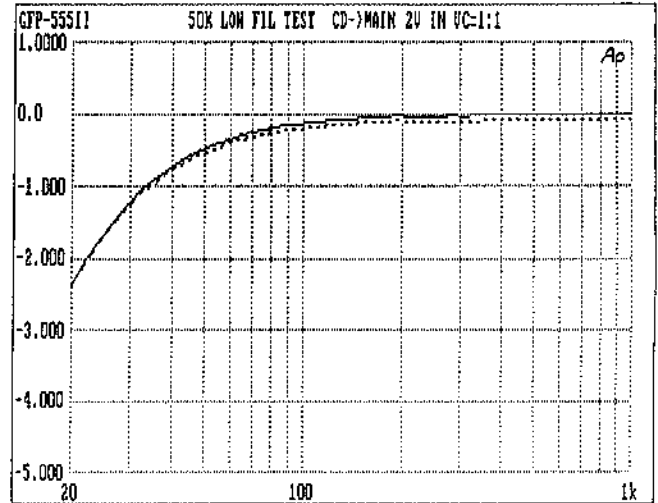
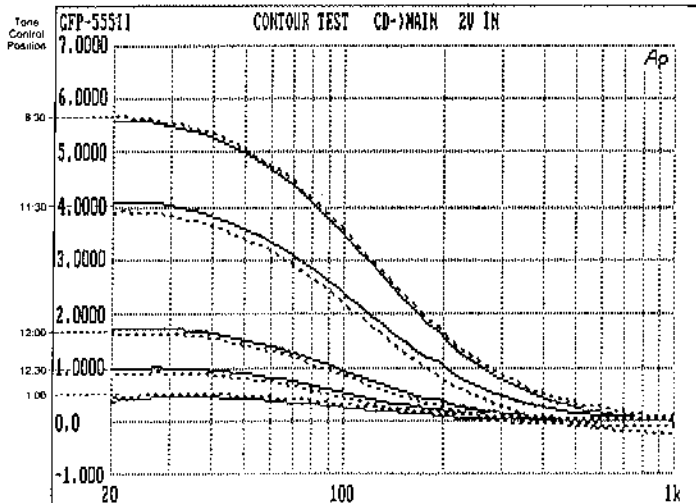
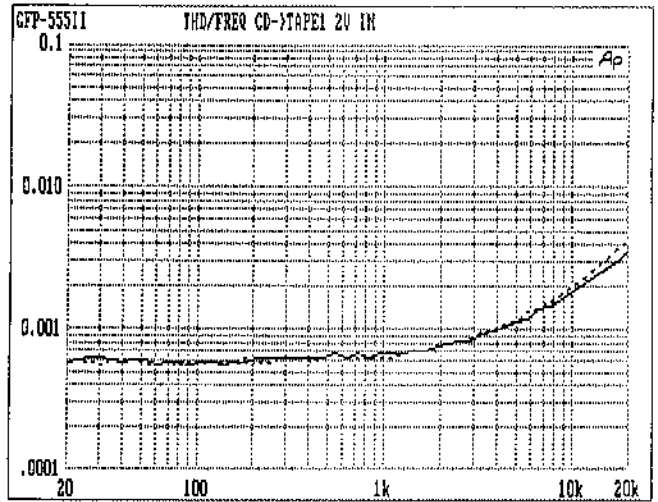
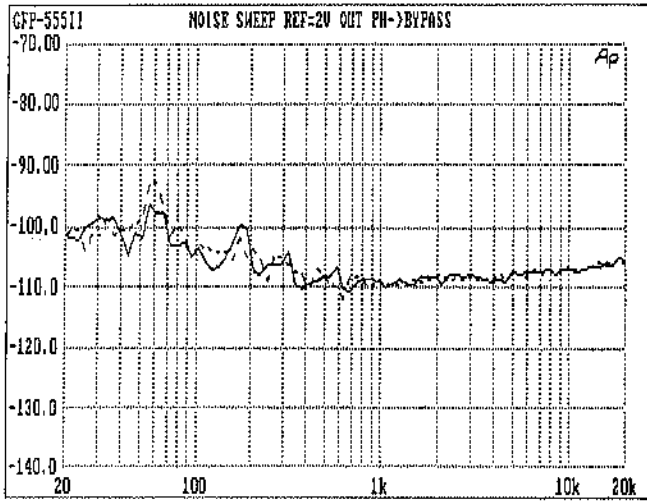
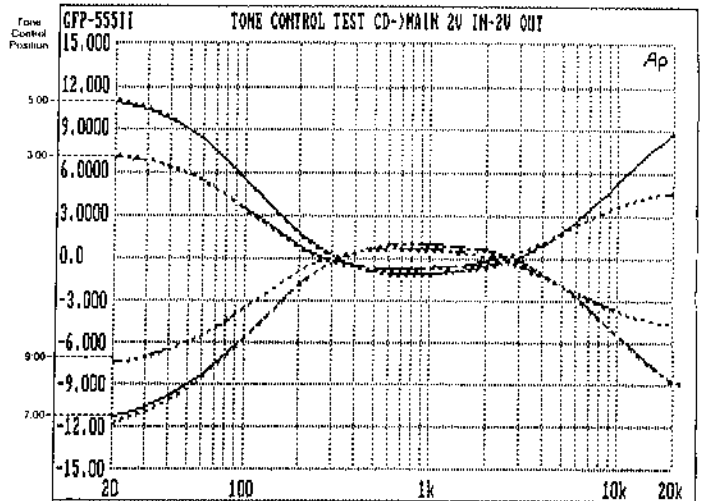
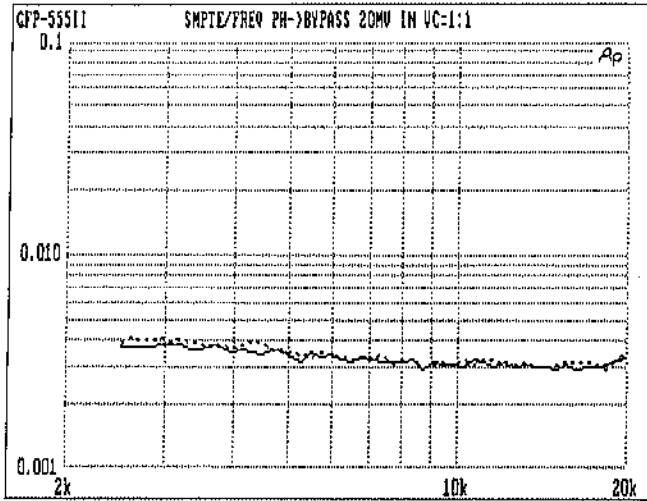
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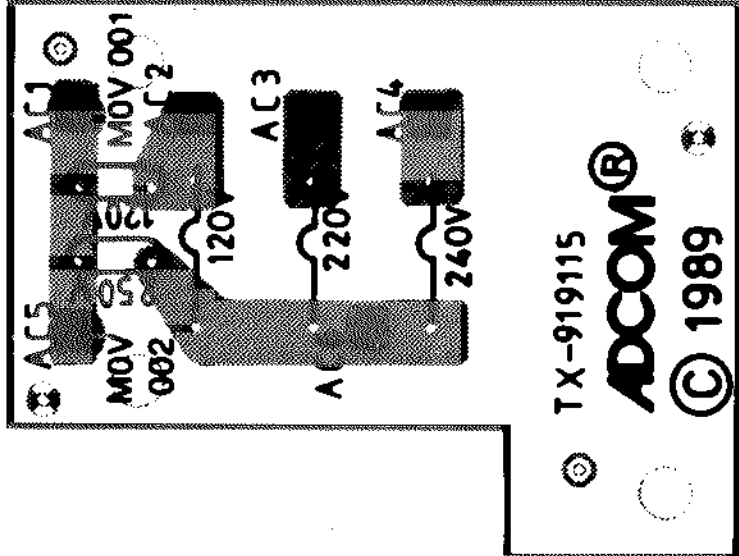
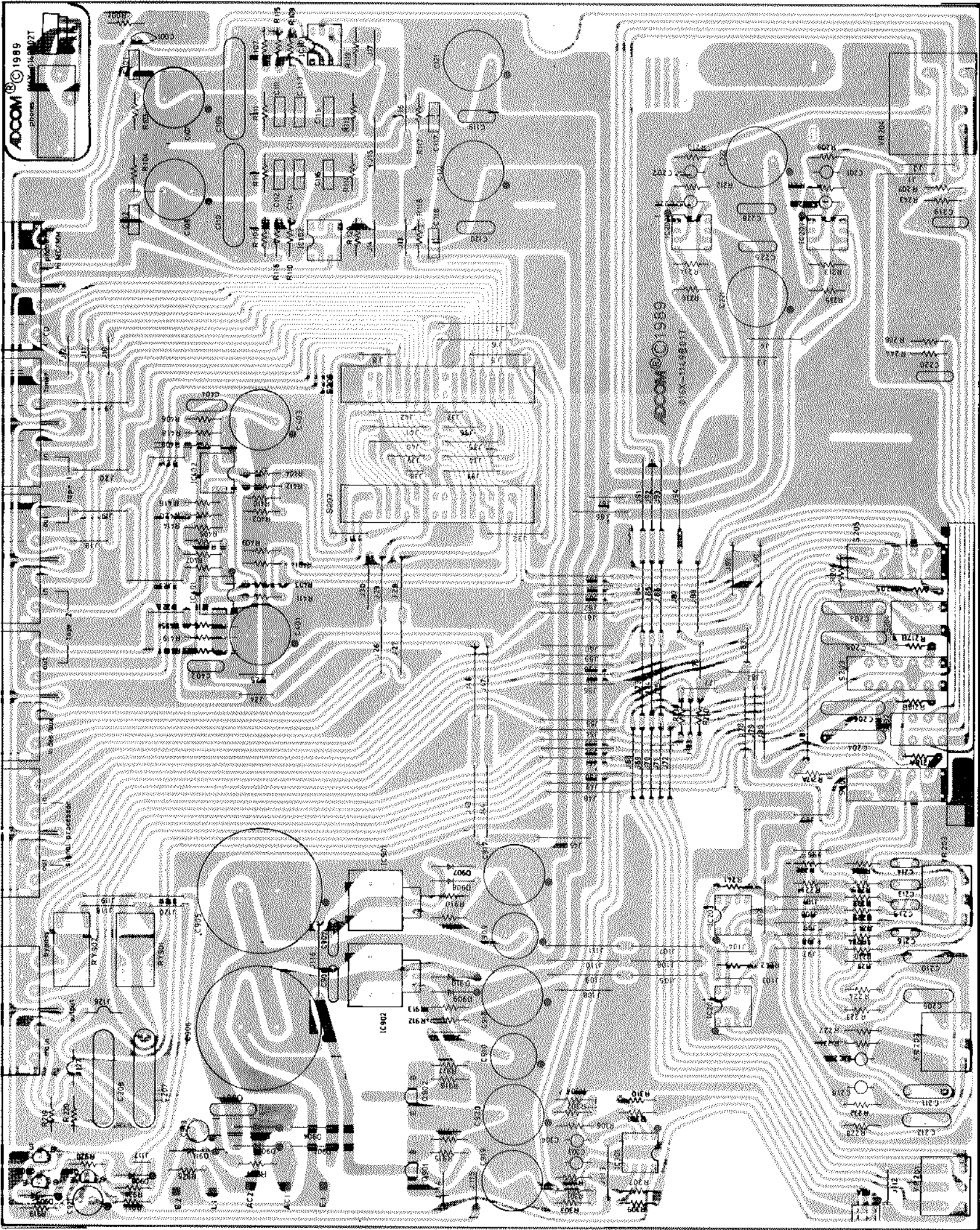
GFP-555II TYPICAL PERFORMANCE DATA



GFP-555II TYPICAL PERFORMANCE DATA

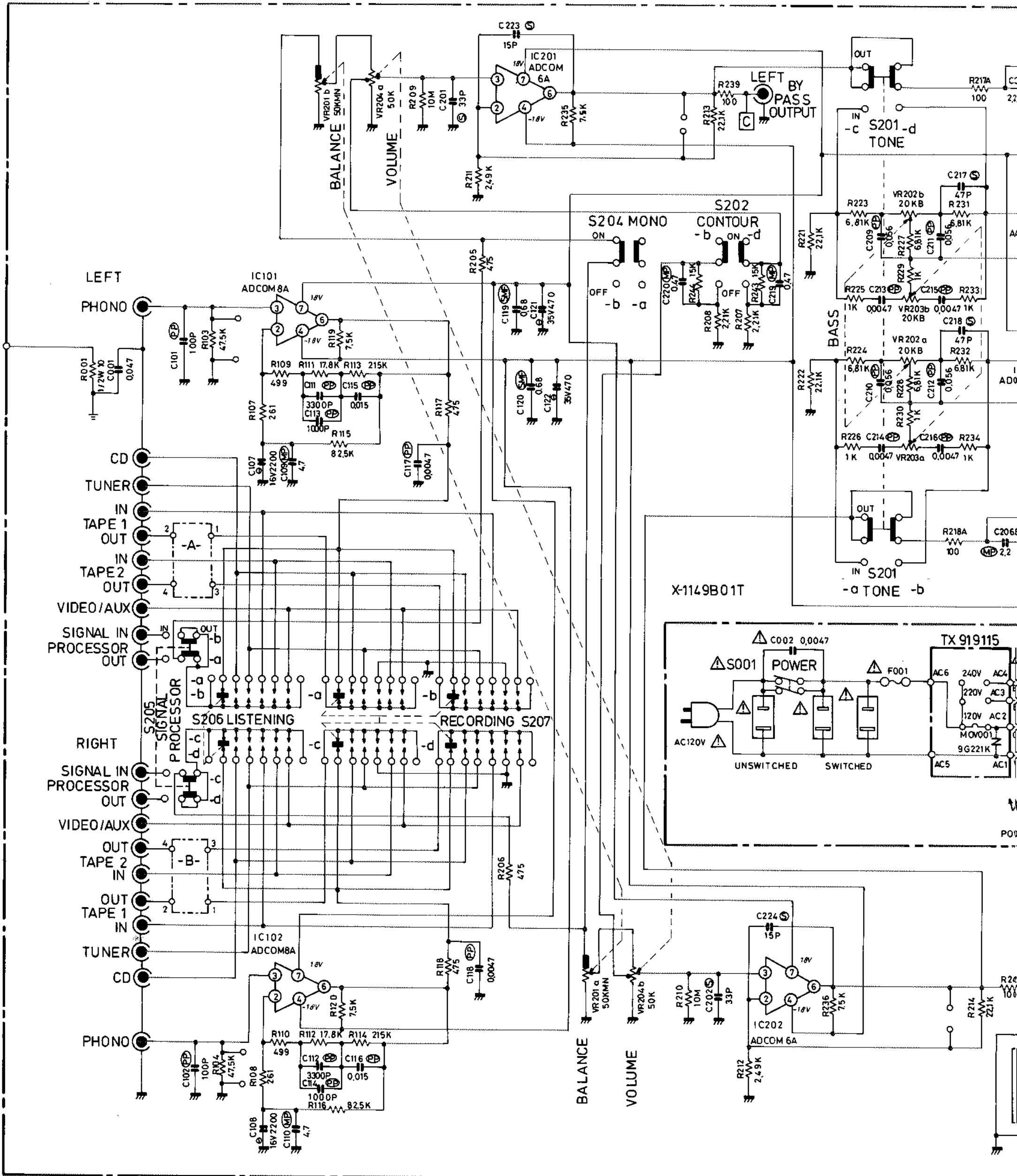


PRINTED CIRCUIT BOARDS GFP-555II

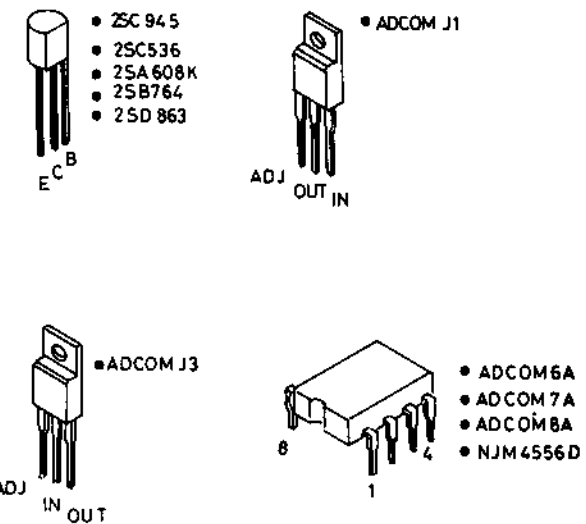
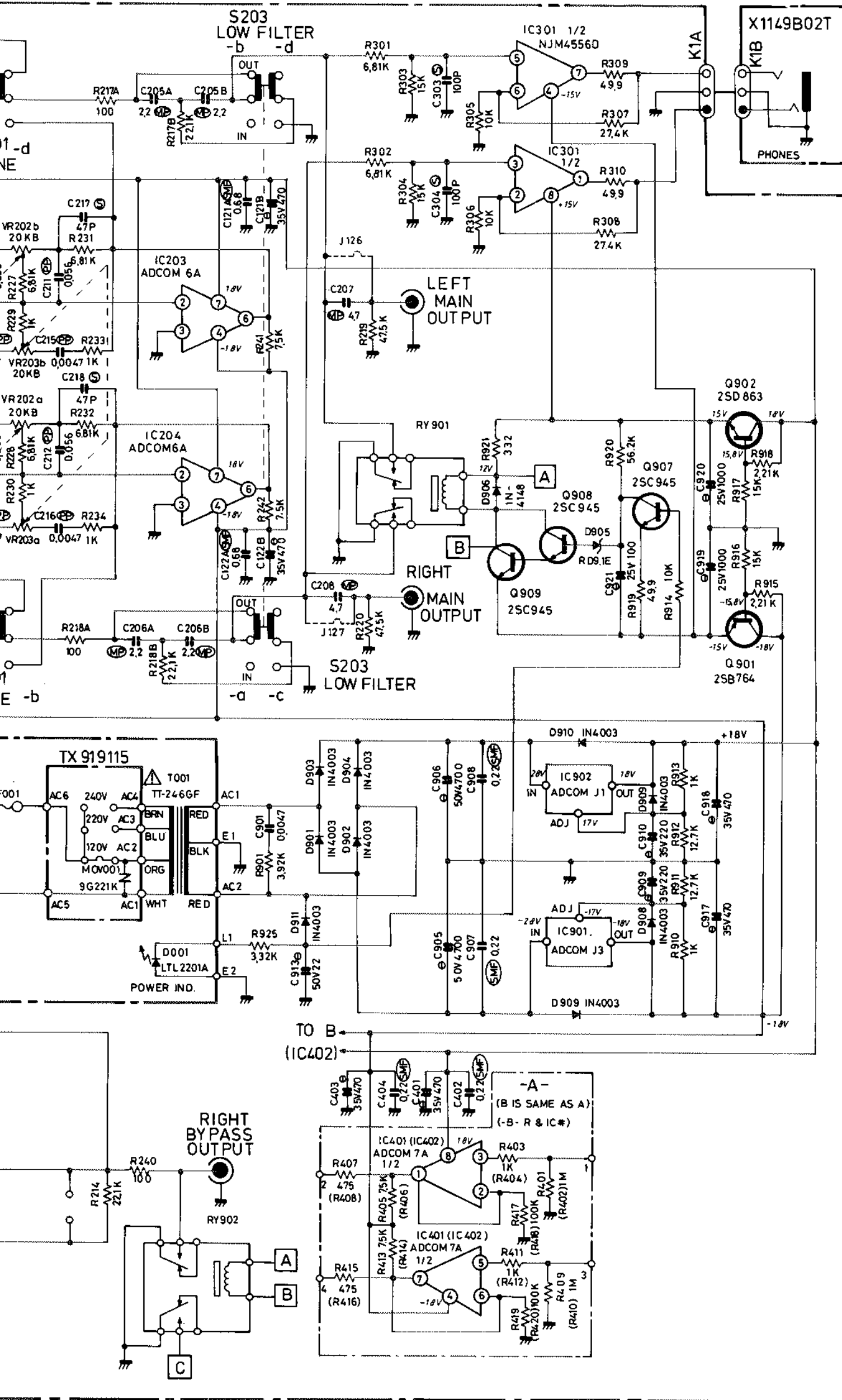


SCHEMATIC DIAGRAM GFP-555II

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



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



INSTRUCTIONS FOR SERVICING PERSONNEL:

- 1) USE ONLY REPLACEMENT PARTS THAT HAVE THE CRITICAL CHARACTERISTICS RECOMMENDED BY MANUFACTURER.
- 2) MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE AC SUPPLY CIRCUIT BEFORE RETURNING THE UNIT TO THE CUSTOMER.

