

# SERVICE MANUAL

# ADCOM®

## PREAMP

# GFP-565

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**ADCOM®**

**TECHNICAL SERVICE DEPARTMENT**

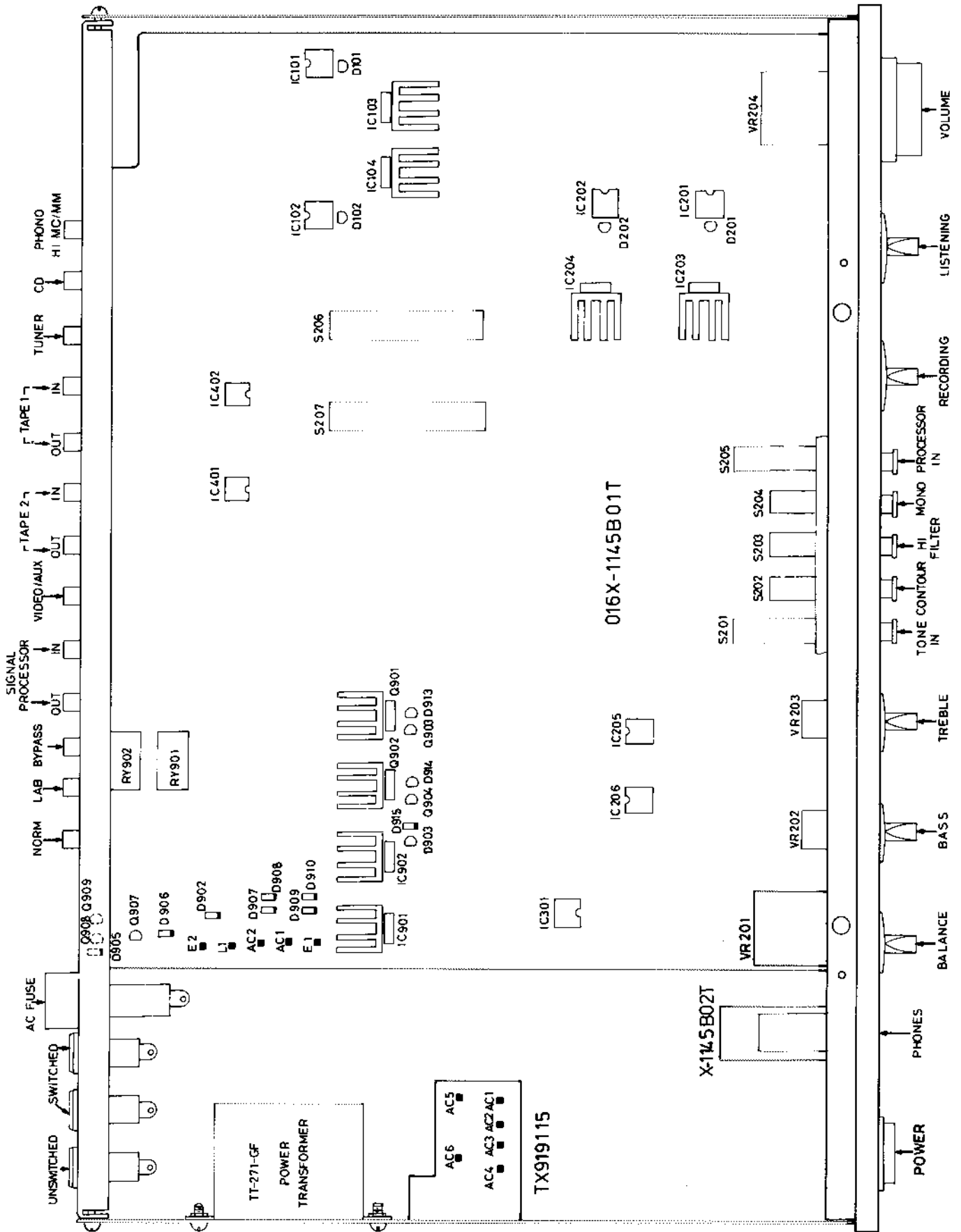
**11 ELKINS ROAD**

**EAST BRUNSWICK, NJ 08816**

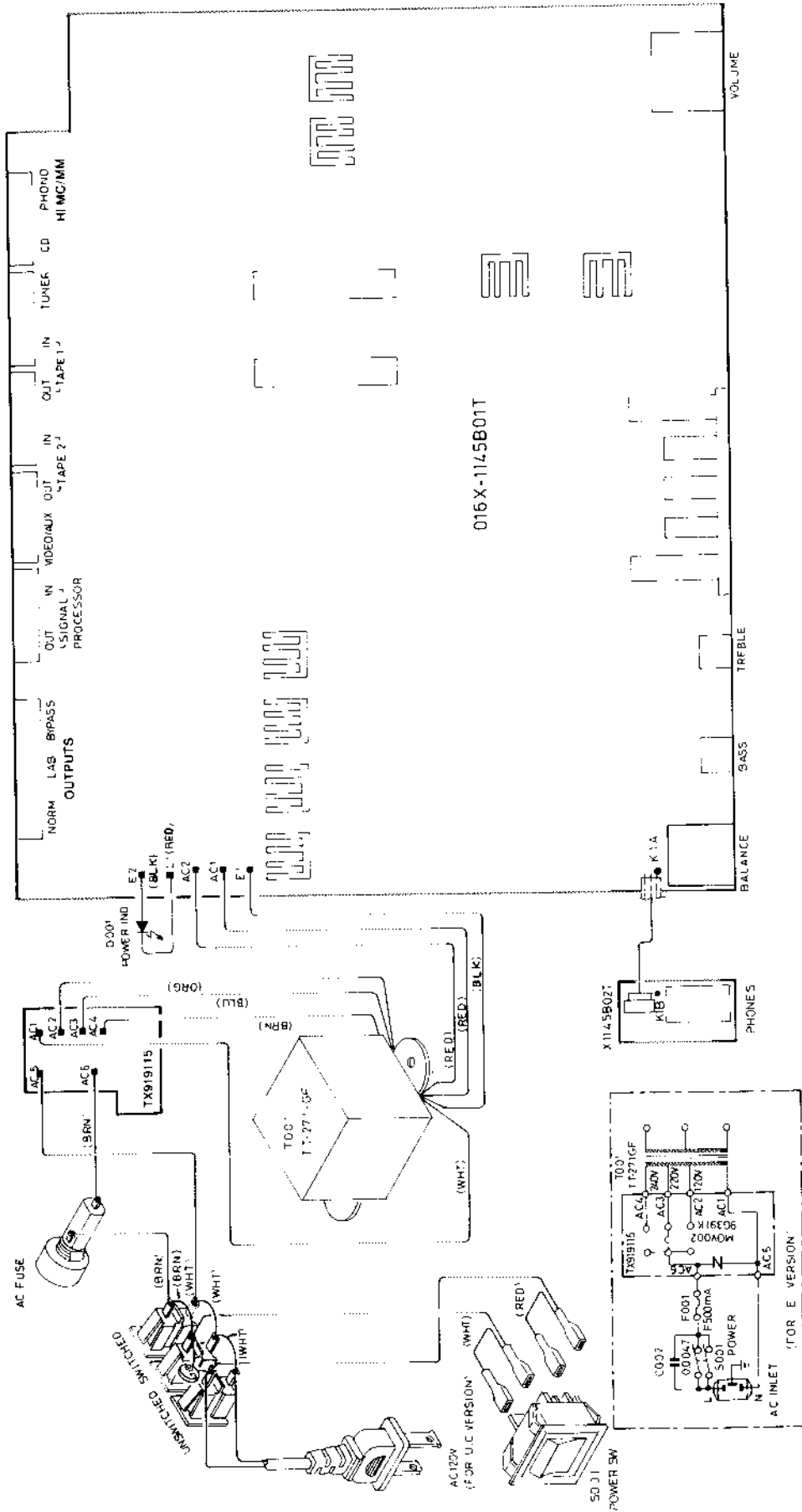
**TELEPHONE (908) 390-1130**

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# Chassis Layout GFP-565



# Wiring Diagram GFP-565



# ADCOM GFP-565 SERVICE PARTS LIST

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
<b>X-1145B01T PCB ASSEMBLY</b>		
R1	RM11009922	METAL-OXIDE 10 1/2W
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	RM84999610	METAL-FILM MK2 49R9FECZ*
R121,122	RM81000619	METAL-FILM MK2 100RFECZ*
C1	CC84709445	CERAMIC ECFE1H473MR
C101,102	CP51011300	POLYPROPYLENE KP100V101F†
C107,108	CE72204161	ELECTROLYTIC ECEA1CF222
C109,110	CP44707332	METALLIZED POLYESTER ECQE1475KF
C111,112	CP53310408	POLYPROPYLENE KP63V332F†
C113,114	CP51010306	POLYPROPYLENE KP100V102F†
C115,116	CP51509404	POLYPROPYLENE KP63V153F†
C117,118	CP54710406	POLYPROPYLENE KP63V472F**
C119,120	CY11007427	STACKED METAL-FILM ECQV1H105JZ
C121,122	CE74705359	ELECTROLYTIC ECEA1VF471
C121A,122A	CY11007427	STACKED METAL-FILM ECQV1H105JZ
C121B,122B	CE74705359	ELECTROLYTIC ECEA1VF471
IC101,102	IC00002326	ADCOM 8A
IC103,104	IC00002200	ADCOM 1A
D101,102	IC00002211	J555
R205,206	RM84750619	METAL-FILM MK2 475RFECZ*
R207,208	RM82211614	METAL-FILM MK2 2K21FECZ*
R209,210	RM81005617	METAL-FILM MK2 010MFECZ*
R211,212	RM82491611	METAL-FILM MK2 2K49FECZ*
R213,214	RM82212618	METAL-FILM MK2 22K1FECZ*
R217A	RM81000619	METAL-FILM MK2 100RFECZ*
R217B	RM84220618	METAL-FILM MK2 422RFECZ*
R218A	RM81000619	METAL-FILM MK2 100RFECZ*
R218B	RM84220618	METAL-FILM MK2 422RFECZ*
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	RM84999610	METAL-FILM MK2 49R9FECZ*
R237 THRU 240	RM81000619	METAL-FILM MK2 100RFECZ*
R241,242	RM87501618	METAL-FILM MK2 07K5FECZ*
R243,244	RM81502613	METAL-FILM MK2 015KFECZ*
C201,202	CS34712414	STYROL SRA470G50
C205,206	CP31089410	POLYPROPYLENE ECQP1H183GZ
C207,208	CP64707337	METALLIZED POLYESTER 100V4R7(K)
C209 THRU 212	CP35609412	POLYPROPYLENE ECQP1H563GZ
C213,216	CP34710413	POLYPROPYLENE ECQP1H472GZ
C217,218	CS34712414	STYROL SRA470G50
C219,220	CP34708418	POLYPROPYLENE ECQP1H474GZW
C223,224	CS32712411	STYROL SRA270G50
IC201,202	IC00002144	ADCOM 6A
IC203,204	IC00002200	ADCOM 1A
IC205,206	IC00002144	ADCOM 6A
D201,202	IC00002211	J555
VR201	RV10001437	POTENTIOMETER, BALANCE 051C-4170A16 50KMN
VR202,203	RV10000433	POTENTIOMETER, TONE 4TR-1742 20KBx2
VR204	RV10001036	POTENTIOMETER, VOLUME 051C-4170A07 50Kx2

S201 THRU 205	SH15000283	5-KEY PUSH-SWITCH 4TR-2707
S206,207	SH60000161	KEYBOARD SWITCH 064C-3440 SSR246
R301,302	RM83321610	METAL-FILM MK2 3K32FECZ*
R303,304	RM87501618	METAL-FILM MK2 07K5FECZ*
R305,306	RM81002616	METAL-FILM MK2 010KFECZ*
R307,308	RM82742619	METAL-FILM MK2 27K4FECZ*
R309,310	RM84999610	METAL-FILM MK2 49R9FECZ*
C303,304	CP52211307	POLYPROPYLENE KP100V221F**
IC301	IC00001474	4556D
R401,402	RM81004613	METAL-FILM MK2 001MFECZ*
R403,404	RM81001612	METAL-FILM MK2 001KFECZ*
R405,406	RM87501618	METAL-FILM MK2 07K5FECZ*
R407,408	RM84750169	METAL-FILM MK2 475RFECZ*
R409,410	RM81004613	METAL-FILM MK2 001MFECZ*
R411,412	RM81001612	METAL-FILM MK2 001KFECZ*
R413,414	RM87501618	METAL-FILM MK2 07K5FECZ*
R415,416	RM84750619	METAL-FILM MK2 475RFECZ*
R417,418	RM81003610	METAL-FILM MK2 100KFECZ*
C401,402	CE74705359	ELECTROLYTIC ECEA1VF471
C402,404	CY12208428	STACKED METAL-FILM ECQV1H224JZ
IC401,402	IC00002181	ADCOM 7A
R901	RM83921613	METAL-FILM MK2 3K92FECZ*
R908	RM81272619	METAL-FILM MK2 12K7FECZ*
R909	RM81002616	METAL-FILM MK2 010KFECZ*
R910	RM84991611	METAL-FILM MK2 4K99FECZ*
R911	RM83320617	METAL-FILM MK2 332RFECZ*
R912	RM84991611	METAL-FILM MK2 4K99FECZ*
R913	RM83321610	METAL-FILM MK2 3K32FECZ*
R914	RM81002616	METAL-FILM MK2 010KFECZ*
R919	RM84999610	METAL-FILM MK2 49R9FECZ*
R920	RM85622613	METAL-FILM MK2 56K2FECZ*
R921	RM83320617	METAL-FILM MK2 332RFECZ*
C901	CK00000060	SPARK KILLER FZ472P
C905,906	CE76804500	ELECTROLYTIC ECES1HG682U
C907,908	CY12208428	STACKED METAL-FILM ECQV1H224JZ
C913	CE72206509	ELECTROLYTIC ECEA1HFS220
C914	CE71004255	ELECTROLYTIC ECEA1EF102
C917,918	CE74705359	ELECTROLYTIC ECEA1VF471
C919,920	CE71004255	ELECTROLYTIC ECEA1EF102
Q901	TR60000033	TIP-115
Q902	TR60000021	TIP-110
Q903	TR10000126	2SA608K
Q904	TR30000390	2SC536(F)
Q907 THRU 909	TR30000248	2SC945
IC901	IC00001267	78M15
IC902	IC00001565	79M15
D902	DD10000068	1N4003
D903	IC00002223	ADCOM J2
D905	DD20000132	RD9.1E
D906	DD10000100	1N4148
D907 THRU 912	DD10000068	1N4003
D913,914	IC00002211	J555
D915	DD10000100	1N4148
RY901,902	LY00000228	RELAY RY24W
	JP04000205	4P PIN JACK 4TR-2672#3
	JP06000154	6P PIN JACK 4TR-2673#3
<b>X-1145B02T PCB ASSEMBLY</b>		
JH00000147	C-3921#3	HEADPHONE JACK
<b>X-919115 PCB ASSEMBLY</b>		
M0V001	△ DD30000104	METAL-OXIDE VARISTOR TNR9G221K
M0V002	△ DD30000116	METAL-OXIDE VARISTOR TNR9G391K (U3,U4,E1,E2,K1,K2)
<b>MISCELLANEOUS</b>		
	AB00000468	BOTTOM COVER 3TUL-6A#2
T001	△ PT27107104	POWER TRANSFORMER TT-271GF
	FT00000035	PLASTIC FOOT 4TR-1257 20x8

		SH60000264	FLEX ROTARY SWITCH C-4175A10
		△ SA00001450	AC OUTLET SOCKET S-I6519
		△ SA00002223	AC INLET SOCKET 6100-31 (E1,E2,K1,K2)
		△ CD00000231	AC CORD SPT-3 AWG#16 4TR-670#6
		SC00000120	AC-CORD STRAIN RELIEF SR-5KN-4
		△ FD00000100	FUSE HOLDER S-N2056#06
		△ FD00000124	MINI-FUSE HOLDER S-N2250#12 (E1,E2,K1,K2)
F001 (120V)		△ FU12000070	AGC-1/250V BUSSMAN
			3AG312.001/250V LITTELFUSE
			3AG 1A/250V BEL
F001 (220V)		△	AGC- $\frac{8}{10}$ /250 BUSSMAN
			3AG312.600/250V LITTELFUSE
			3AG 600mA/250V BEL
F001 (240V)		△	AGC- $\frac{1}{2}$ /250 BUSSMAN
			3AG312.500/250V LITTELFUSE
			3AG 500mA/250V BEL
F001		△ FU23000013	FUSE 250V 500mA (E1,E2,K1,K2)
C002		△ CK00000035	SPARK KILLER 044 DE7150 F472M
		OM00001943	BUTTON CONNECTOR 4TR-2216 13.5x13
D001		DD40000757	LED LTL-2201A 3F RED
		SN00000179	BUTTON SPRING 4TR-1988#2 10F
		AA80001382	FRONT PANEL 2TUL-1A#5
		AA80001394	FRONT PANEL 2TUL-1A#6 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 34.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
		△ SH40000180	POWER SWITCH CARLING RGSC711-R-B-B-O
		△ SH40000192	POWER SWITCH CARLING RGSC711-R-W-W-O WHITE
		AU00000610	UPPER COVER 3TR-2221B#1
		WI08000734	AUDIO CABLE 4TR-2463
		TN10003240	CARTON 4TR-2224#10
		PL00000654	STYRENE INSIDE PACKING 2TR-2222A

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

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



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.

# GFP-565 SPECIFICATIONS

Output Impedance	
Bypass Output.....	100 ohms
Main Outputs.....	100 ohms
Tape Out.....	475 ohms
Output Level (Rated)	
Bypass Output.....	2.0V
Main Outputs.....	2.0V
Output Level (Maximum)	
Bypass Output.....	≥10.0V
Main Outputs.....	≥10.0V
Frequency Response (+0.5dB)	
High Level.....	5Hz-90kHz
Phono.....	5Hz-70kHz
THD + Noise (@ Rated Output, 20Hz-20kHz)	
High Level.....	0.0025%
Phono.....	0.009%
IMD (SMPTE @ Rated Output)	
High Level.....	0.0025%
Phono.....	0.0025%
Signal-to-Noise (@ Rated Output, "A" Weighted)	
High Level.....	≥100dB
Phono.....	≥95dB
Input Impedance	
High Level.....	22,000 ohms
Phono.....	47,000 ohms/100pF
Input Sensitivity (@ Rated Output)	
High Level.....	205mV
Phono.....	2.3mV
RIAA Accuracy (20Hz-20kHz).....	±0.1dB
Tape Output THD + Noise (@ 2.0V, 20Hz-20kHz).....	0.003%
Tape Output IMD (SMPTE @ 2.0V).....	0.002%
Tone Controls	
Bass (20Hz).....	±10dB
Treble (20kHz).....	±9dB
Loudness (Volume Control @ 9:00 o'clock)	
100Hz.....	+5dB
20Hz.....	+10dB
Crosstalk (1kHz).....	-105dB
Separation (1kHz, @ Rated Output).....	≥75dB
High Filter (20kHz).....	-2.7dB

## GENERAL

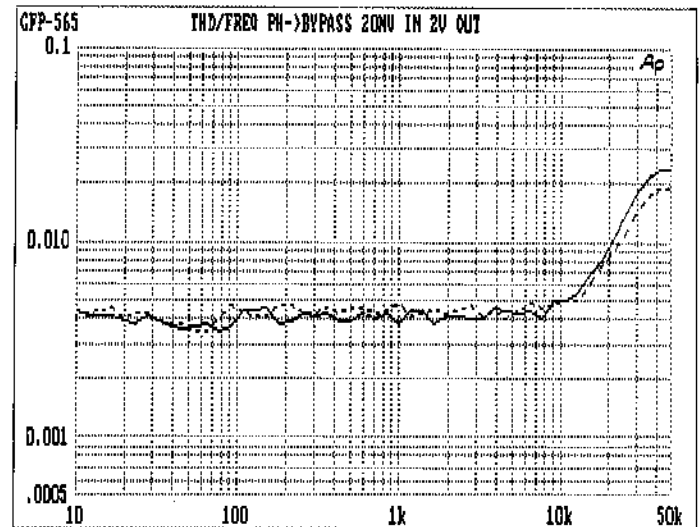
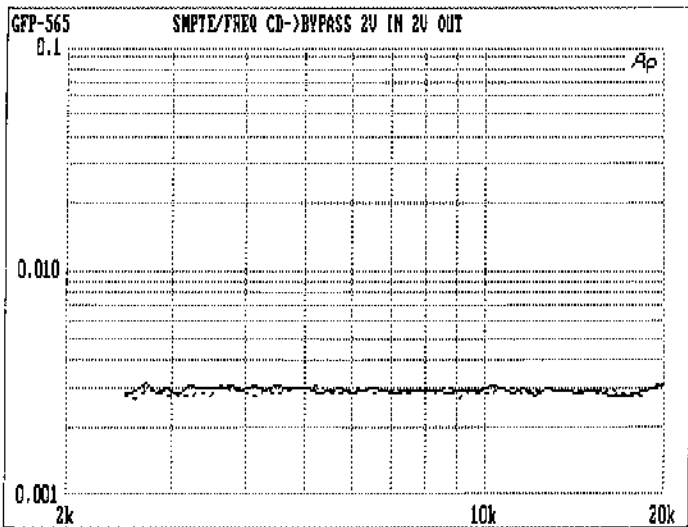
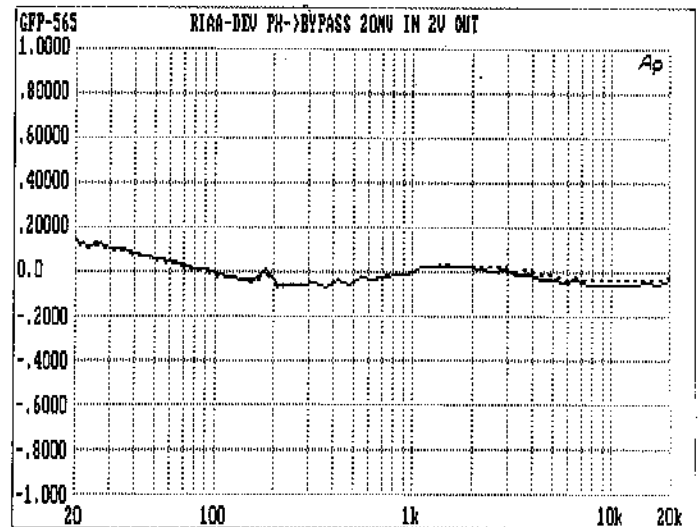
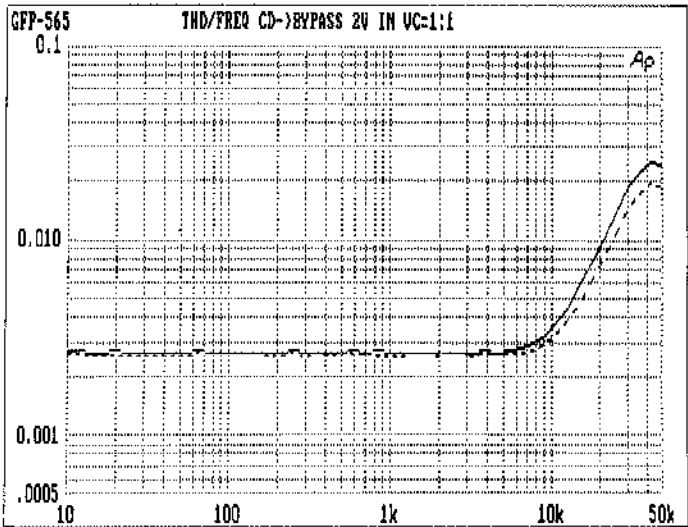
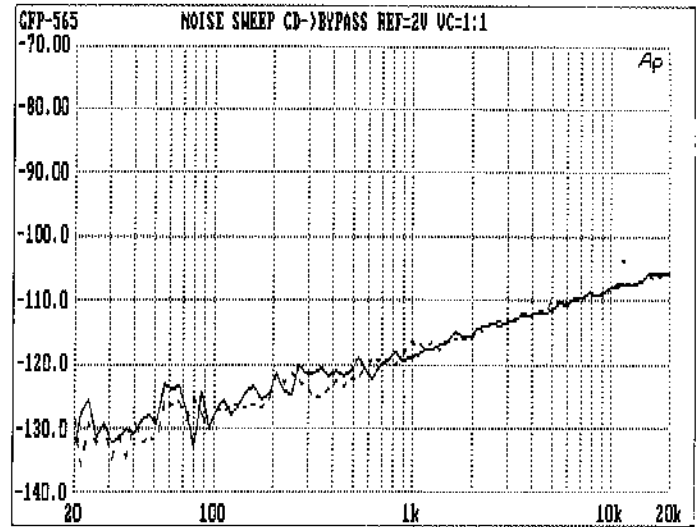
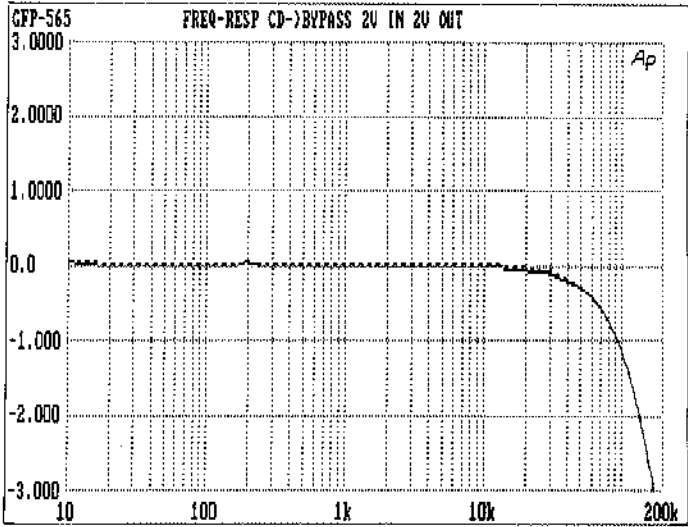
Power (available in 220V or 240V on special order) 120VAC/50-60Hz	
Power Consumption.....	10 watts max.
Chassis Dimensions.....	17"(432mm)x11-3/8"(289mm)x3"(76mm)
Maximum Dimensions.....	17"(432mm)x12-9/16"(319mm)x3-1/4"(83mm)
Weight.....	11 lbs. (5 kg)
Weight, Packed.....	14 lbs. (6.4 kg)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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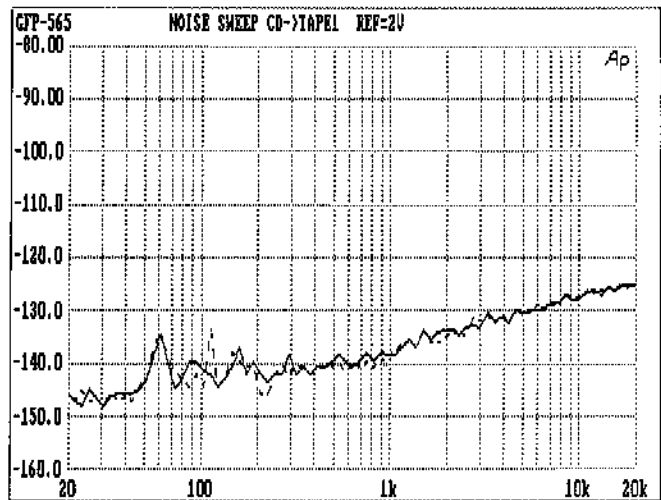
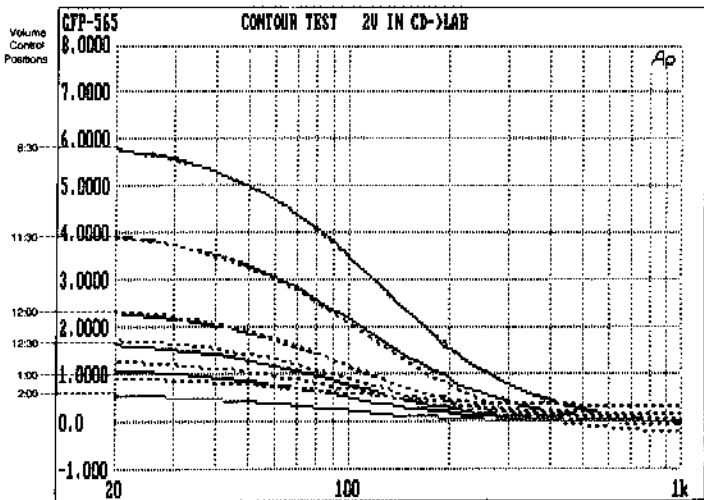
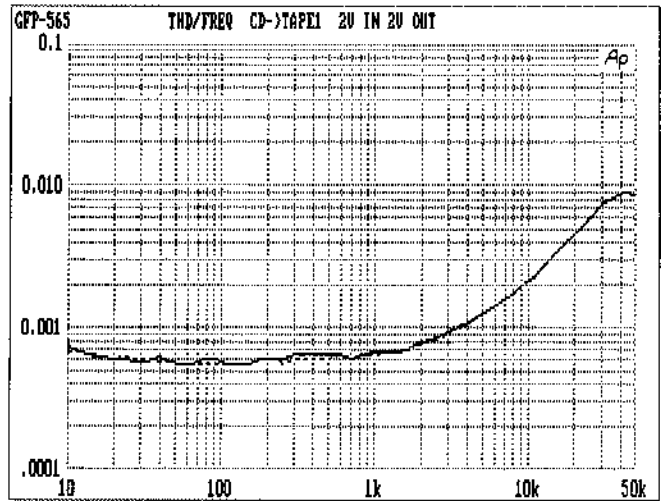
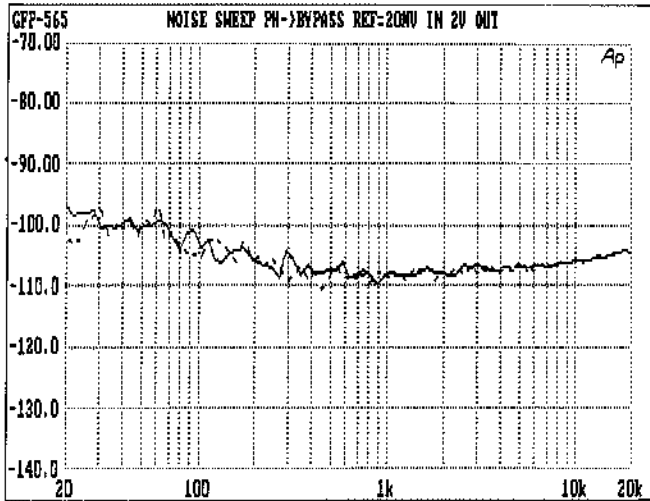
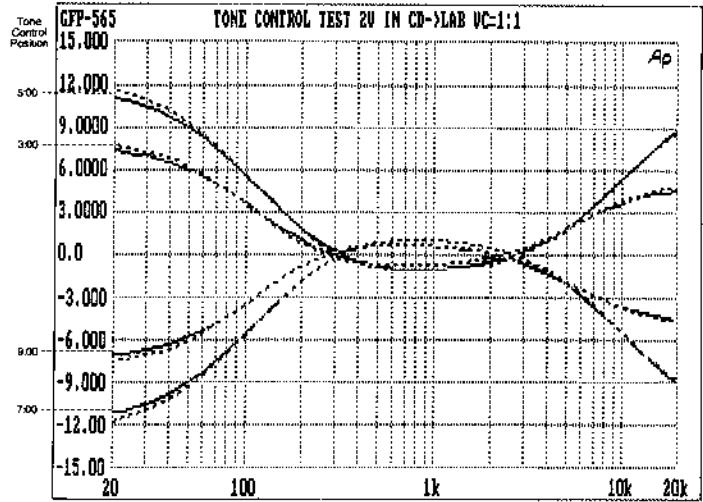
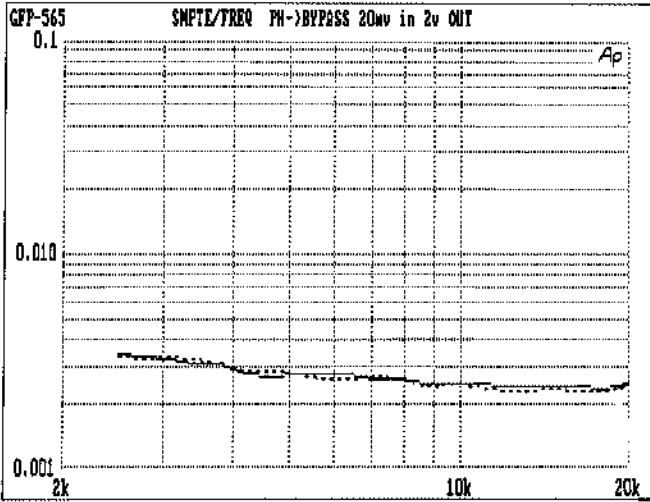
11 Elkins Road  
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 Telephone (908) 390-1130  
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# GFP-565 TYPICAL PERFORMANCE DATA

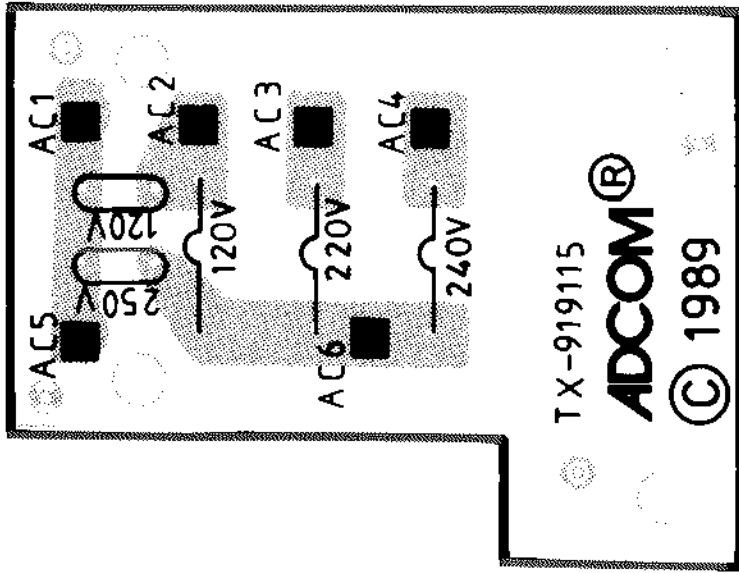
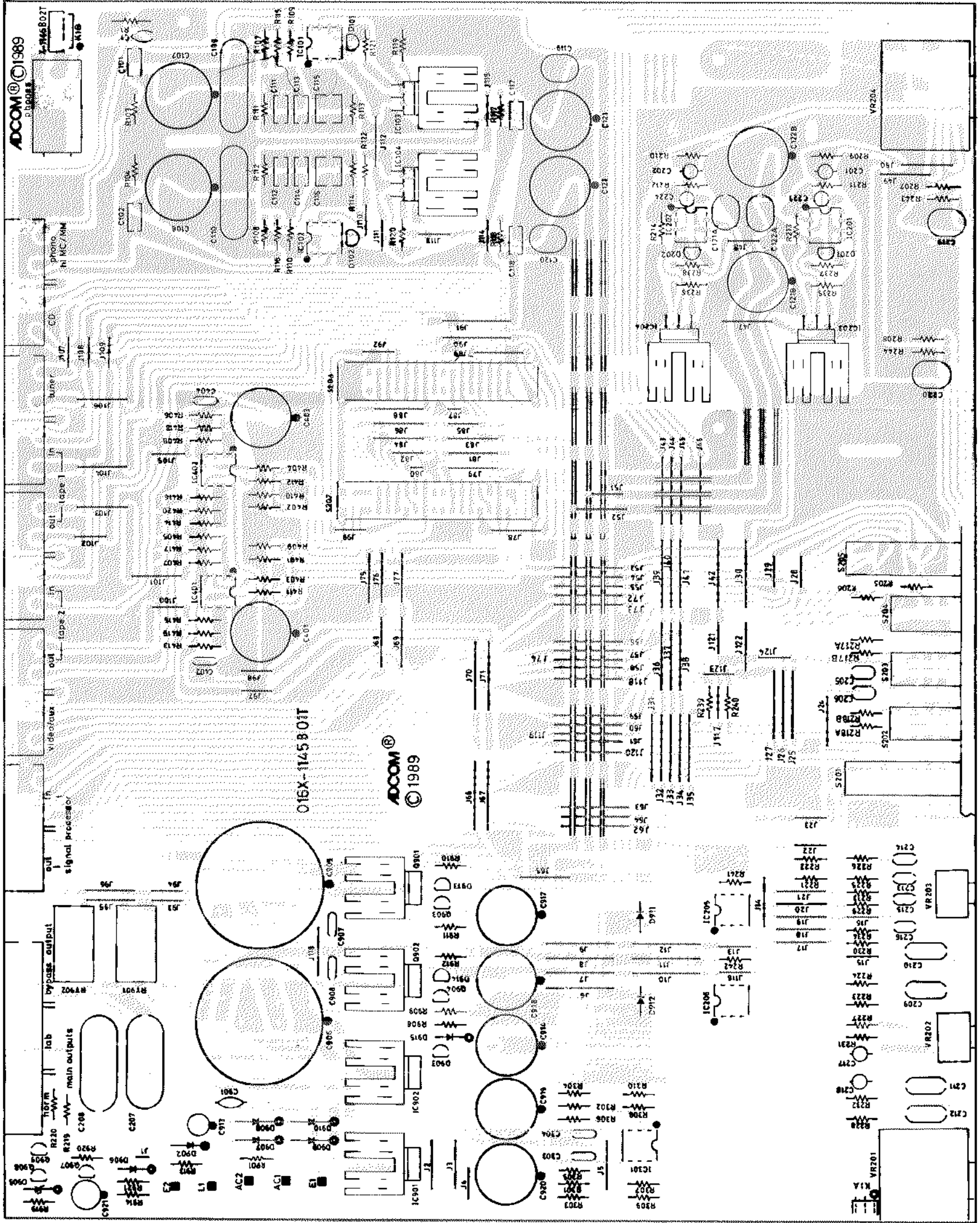




# GFP-565 TYPICAL PERFORMANCE DATA

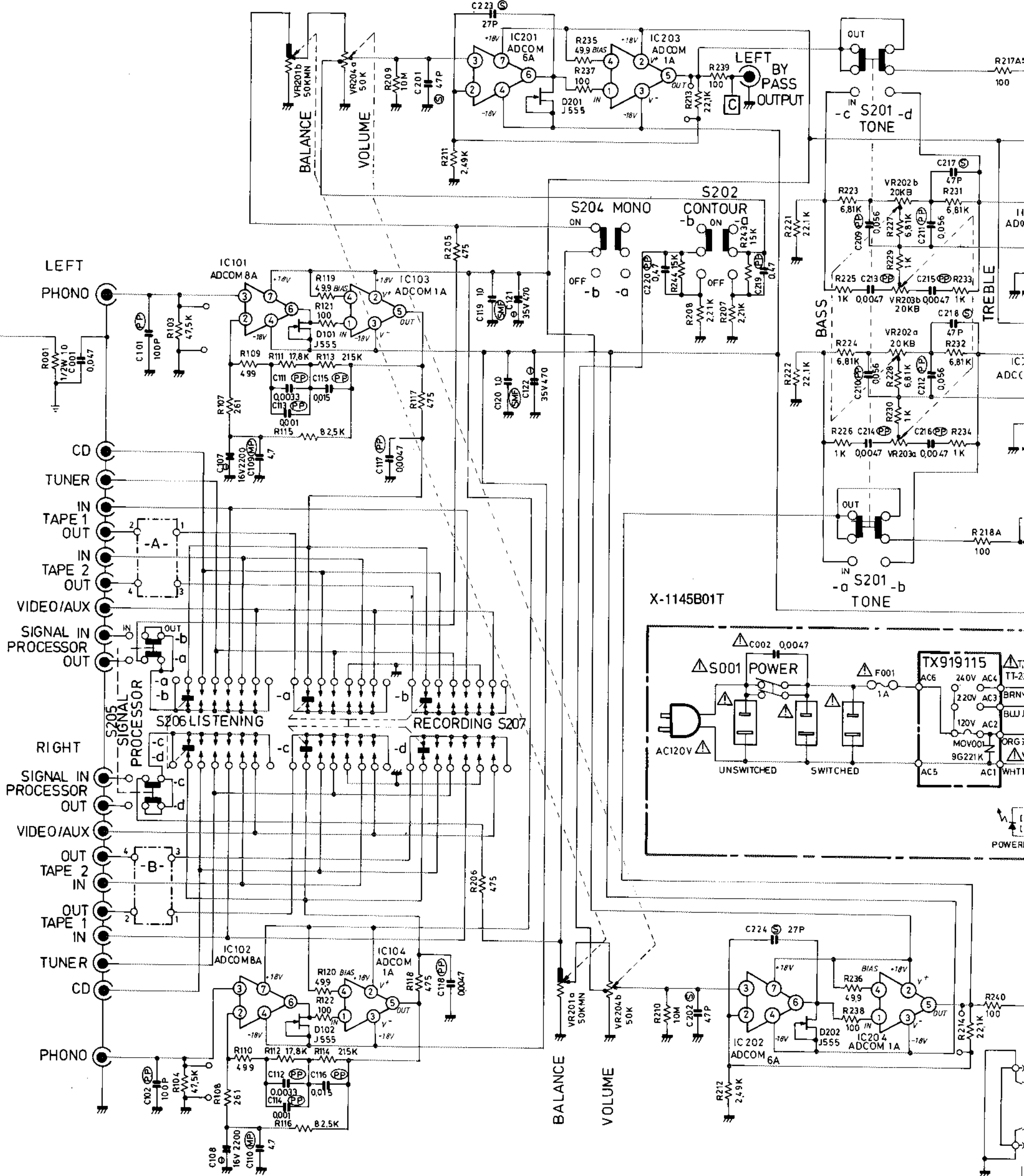


Printed Circuit Boards GFP-565

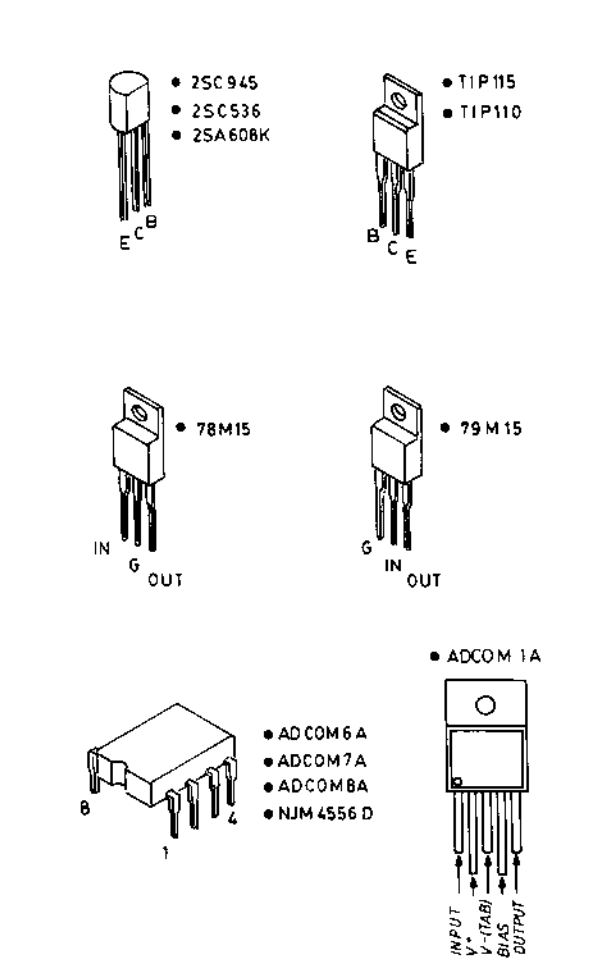
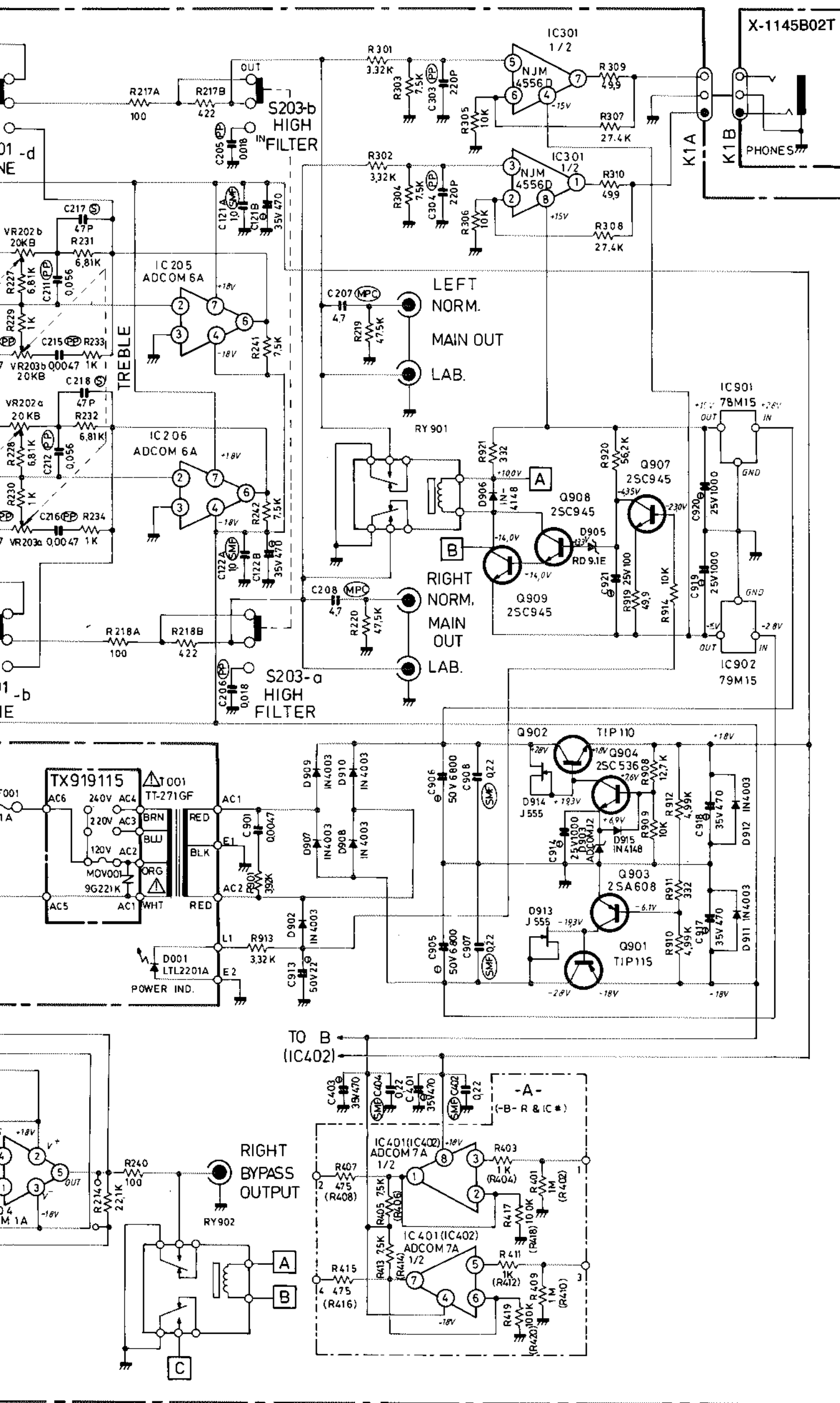


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TRY AND/OR CHANGE COMPONENTS  
INCURRING ANY LIABILITY.



**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.

