

TECHNICAL MANUAL

ROTEL® RA-82OBX3

STEREO INTEGRATED AMPLIFIER

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THE ROTEL CO., LTD.

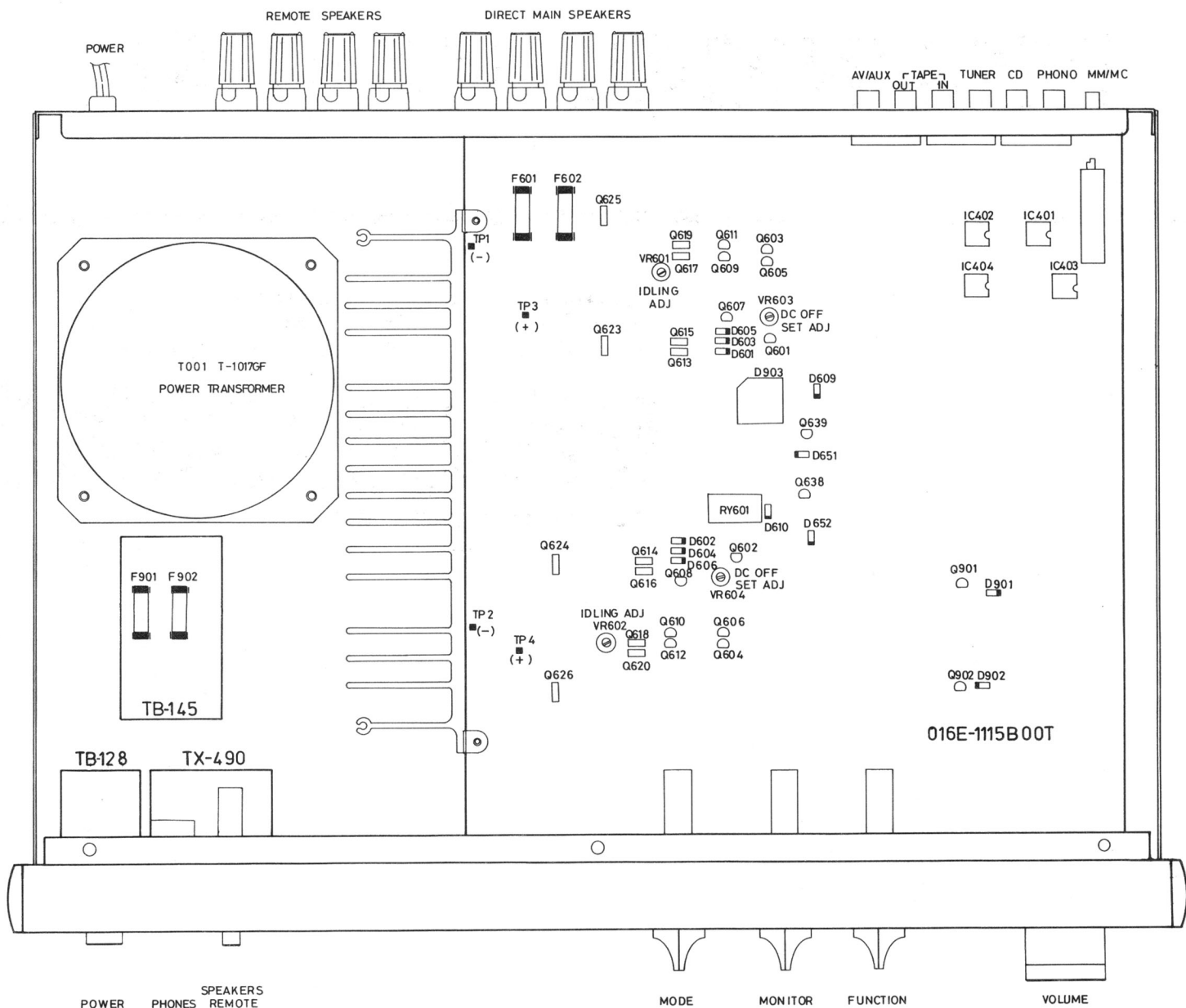
1-36-8 OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN

ROTEL ELECTRONICS CO., LTD.

ROTEL BLDG., 3F. NO. 35, FUSING N. ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN20001421

Chassis Layout



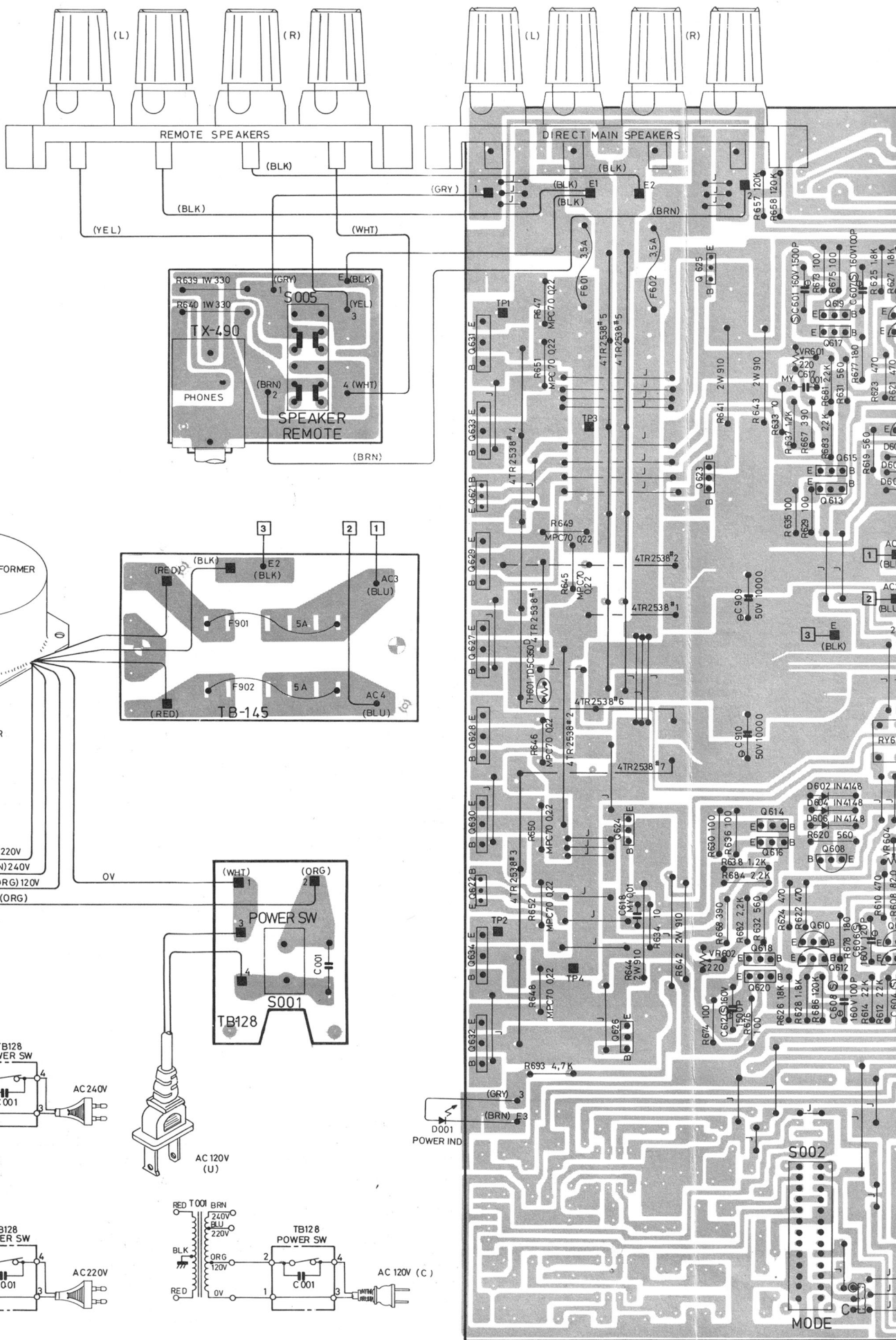
Power Amplifier Bias Adjustment

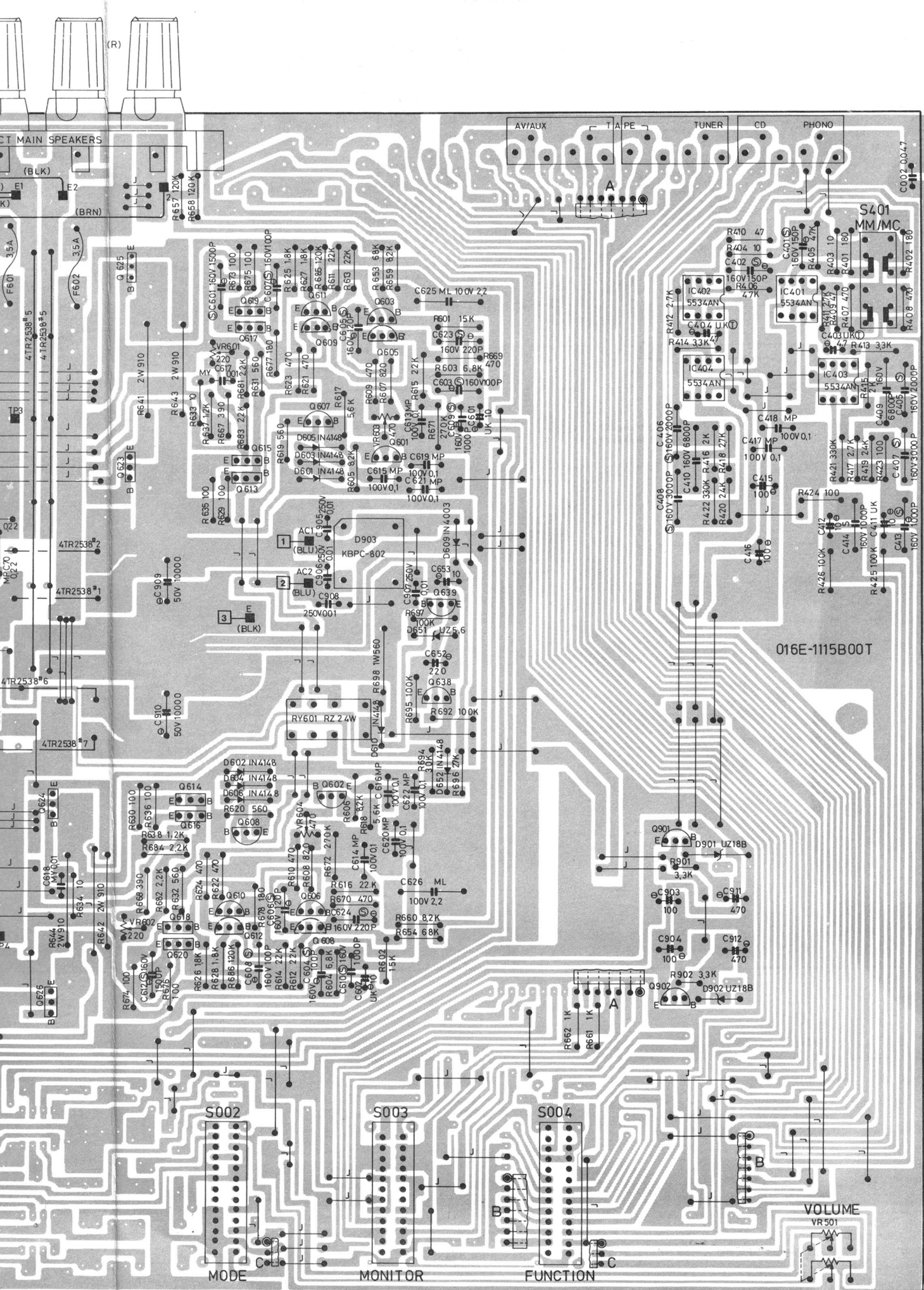
Instruments: DC milli-voltmeter

Notes: Prior to Bias Adjustment, run about 5 minutes with rated output (8 ohm) and warm up Power Transistor and Heat Sink. Set Volume Control to Minimum.

Step	Coupling		Adjust	Adjust for
	Plus Lead	Minus Lead		
1	TP3	TP1	VR601	DC milli-voltmeter reads 2.5mV
2	TP4	TP2	VR602	
3	1	E1	VR603	DC milli-voltmeter reads 0 mV
4	2	E2	VR604	

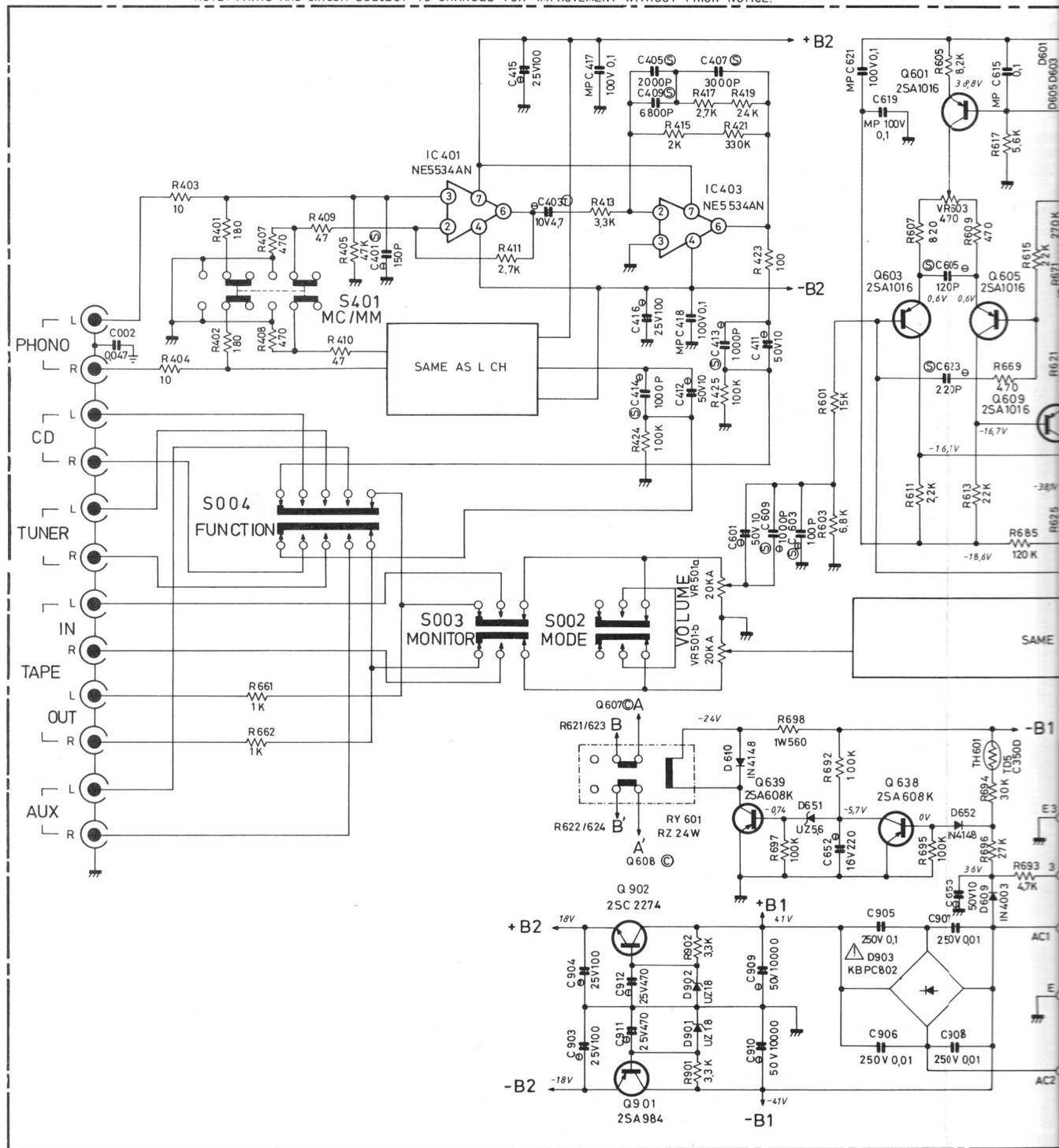
Wiring Diagram





Schematic Diagram

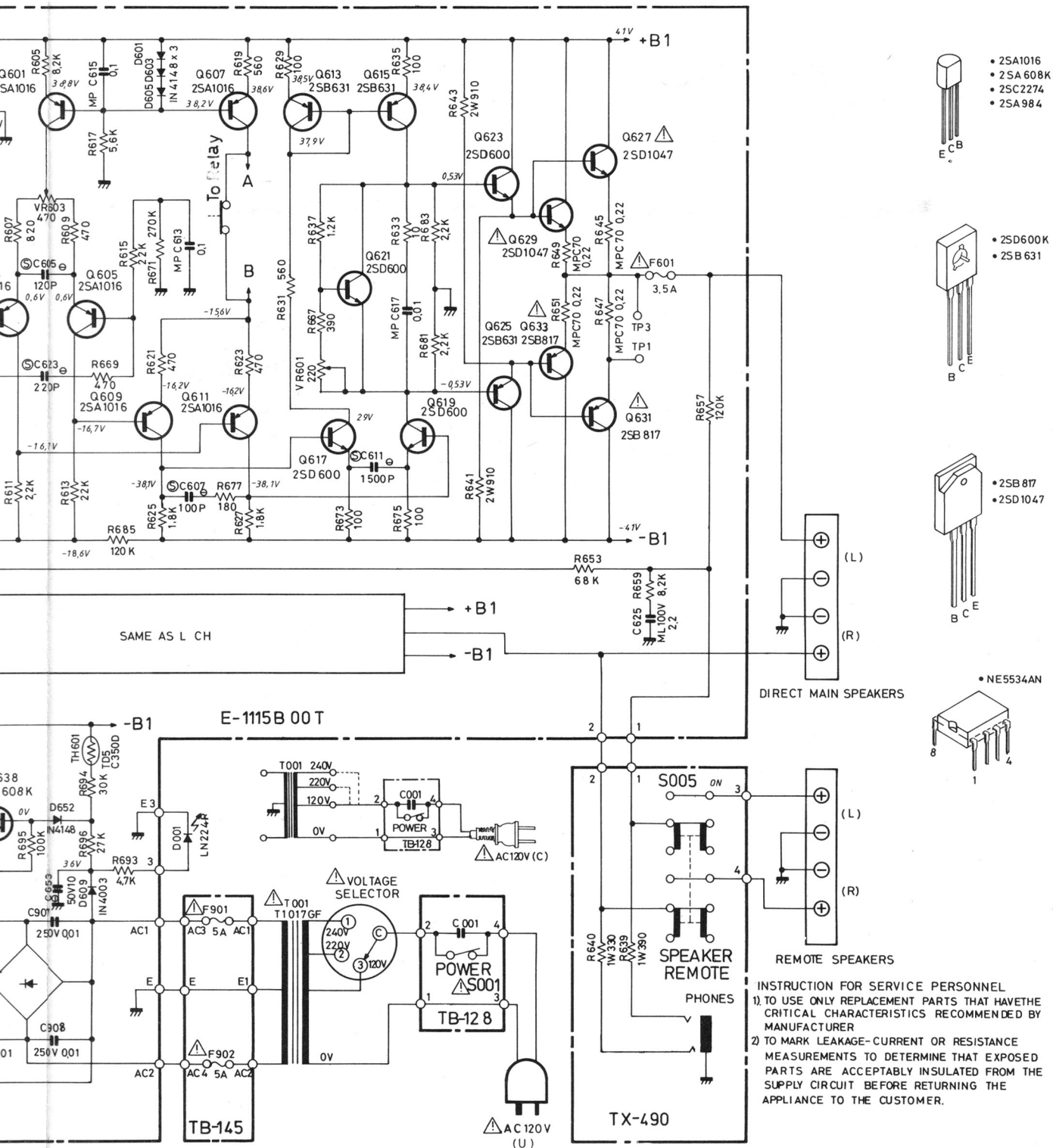
NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENT WITHOUT PRIOR NOTICE.



Repair Parts List

Schematic Location	Computer No.	Description
IC401 ~ 404	IC00001735	IC (8 Pin), NE5534AN
Q601 ~ 612	TR10000023	Transistor, 2SA1016(G,H)
Q613 ~ 616	TR10000047	Transistor, 2SB631K (E,F)
Q617 ~ 624	TR40000069	Transistor, 2SD600K (E,F)
Q625, 626	TR10000047	Transistor, 2SB631K (E,F)
Q627 ~ 680	TR40000045	Power Transistor, 2SD1047(D,E)
Q631 ~ 634	TR20000040	Power Transistor, 2SB817(D,E)
638, 639	TR10000126	Transistor, 2SA608K (F,G)
Q901	TR10000140	Transistor, 2SA984K (E,F)
Q902	TR30000121	Transistor, 2SC2274 (E,F)
D601 ~ 606	DD10000100	Diode, IN4148

Schematic Location	Computer No.	Description
D609	DD10000068	Diode, IN4003
D610	DD10000100	Diode, IN4148
D651	DD20000168	Diode, UZ-5.6B(M,H)
D652	DD10000100	Diode, IN4148
D901, 902	DD20000041	Diode, UZ-18B (M,H)
D903	DD10000147	Diode, KBPC-802 / PBPC803
D001	DD40000095	LED, LN224R
TH601	DD60000260	Thermistor, TD5C350D
VR501	RV10000585	4TR-1882 20KA x 2, Volume
VR601, 602	RV40000046	VM6CKPV-1S-B 220 ohm
VR603, 604	RV40000058	VM6CKPV-1S-B 470 ohm



Schematic Location	Computer No.	Description
S001	SH40000120	C-3600B-T, Power Switch
S002, 003	SH30000389	4TR-2397 022N K-20, Mode, Monitor
S004	SH30000390	4TR-2398 024N K-20, Function Switch
S005	SH11000239	4TR-2328, Speaker Remote
S401	SH11000264	4TR-2407, MM/MC
F601, 602	FU12000112	Fuse, 250V, 3.5A UL (C,U,A)
	FU21000071	Fuse, Mini 4A (H E1, E2, E3, E6)
	FU23000049	Fuse, 250V 4A S (E4, E5 ~ E9, G)

Schematic Location	Computer No.	Description
F901, 902	FU12000100	Fuse, 250V 5A UL/CSA (C,U,A)
	FU21000060	Fuse, Mini 5A (H, E1, E2, E3, E6)
	FU23000074	Fuse, 250V 5A S