TECHNICAL MANUAL

ROTEL®

RA-820A

STEREO INTEGRATED AMPLIFIER

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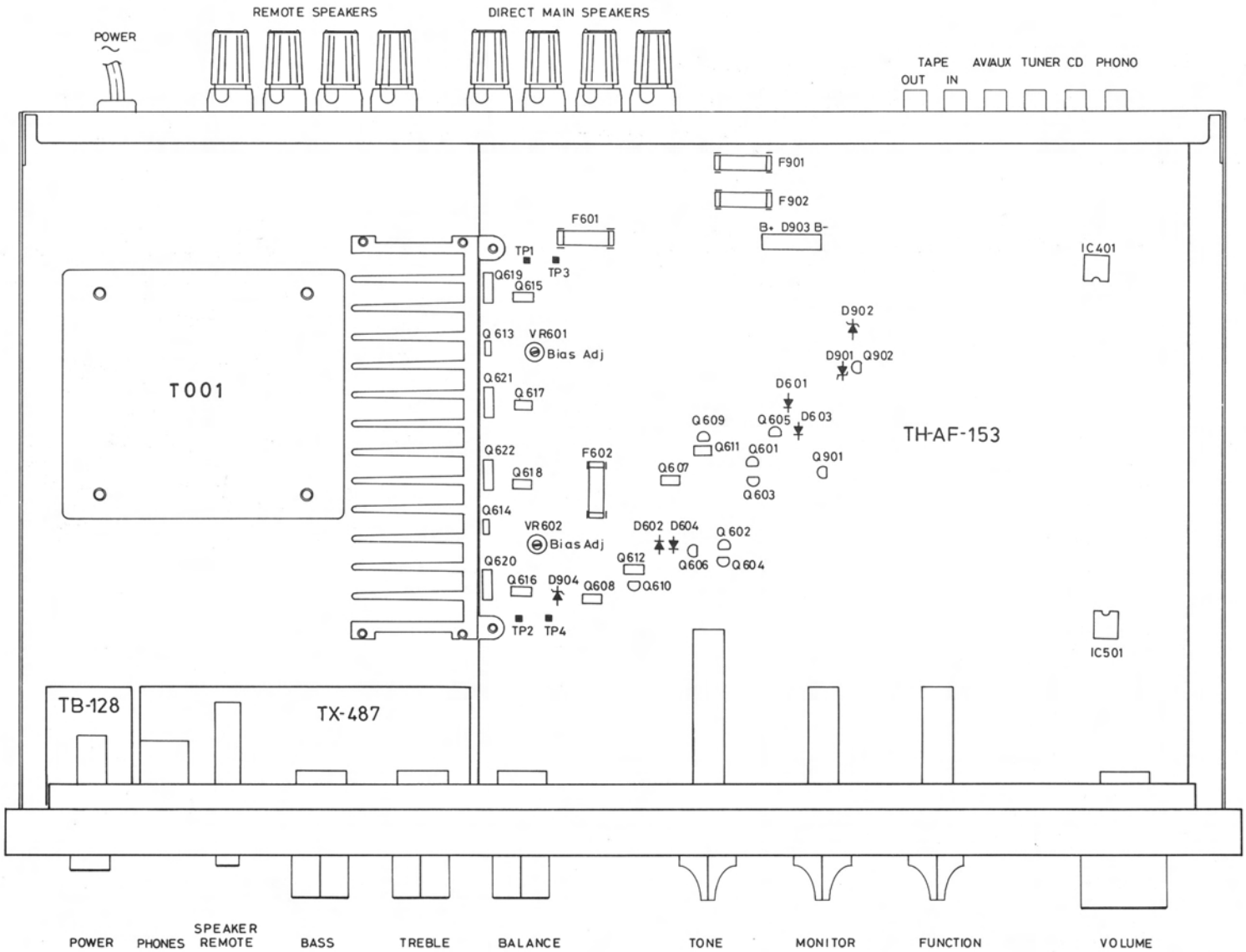
ROTEL ELECTRONICS CO., LTD.
ROTEL BLDG., 3F. NO. 35, FUSING N. ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA

MN 200 1410

Chassis Layout



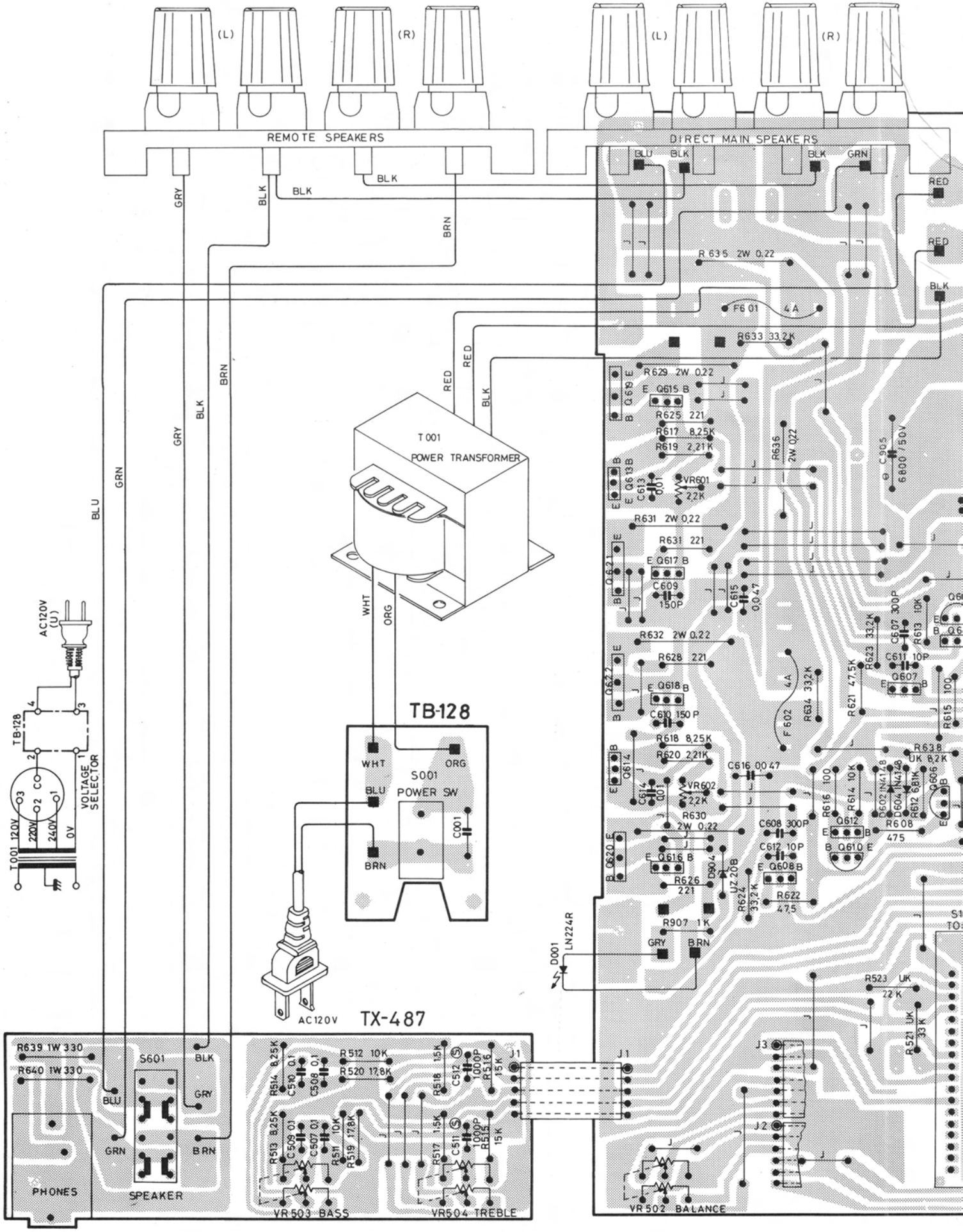
Power Amplifier Bias Adjustment

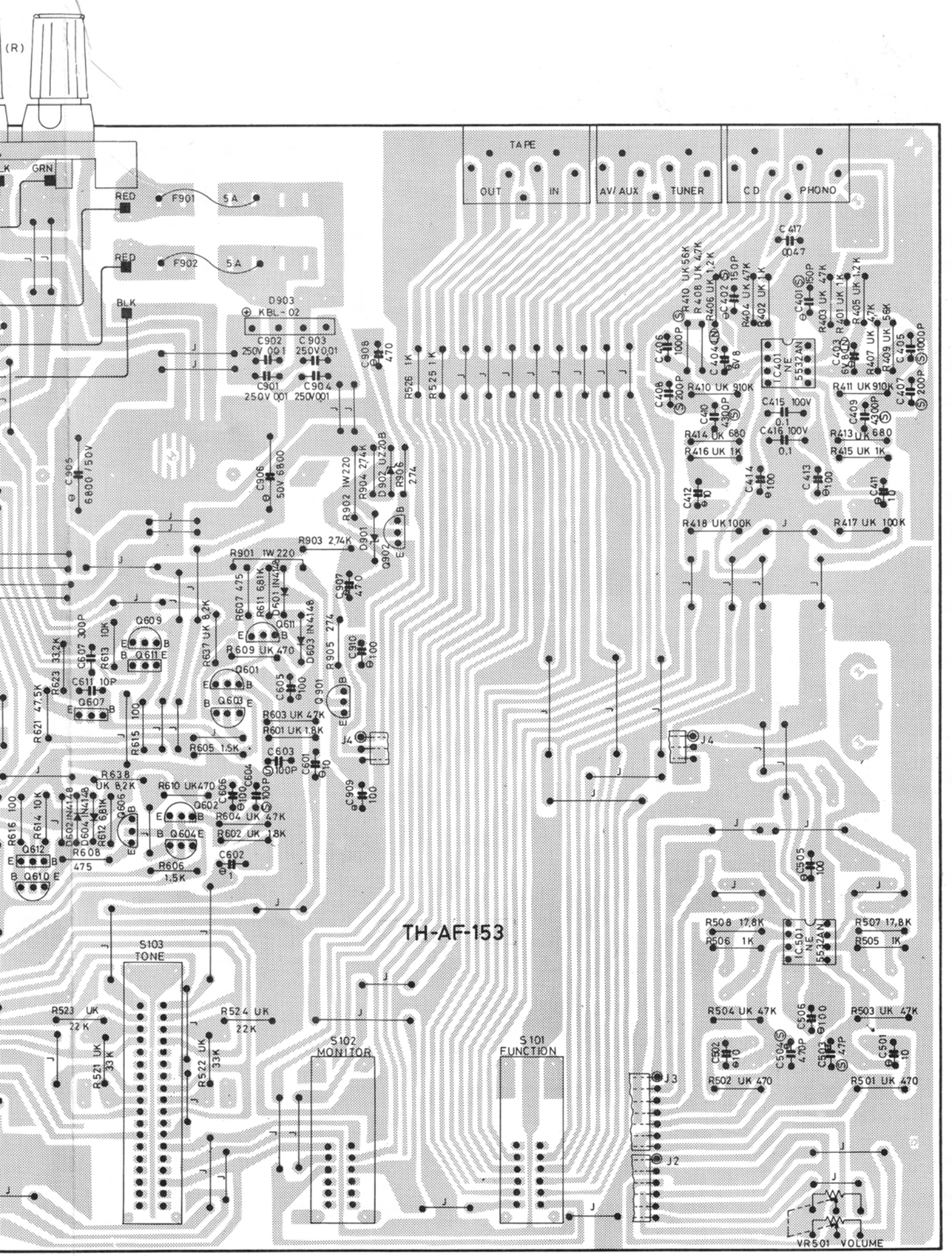
Instruments: DC milli-voltmeter

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	TP1	TP3	VR601	DC milli-voltmeter reads 4 mV
2	TP2	TP4	VR602	

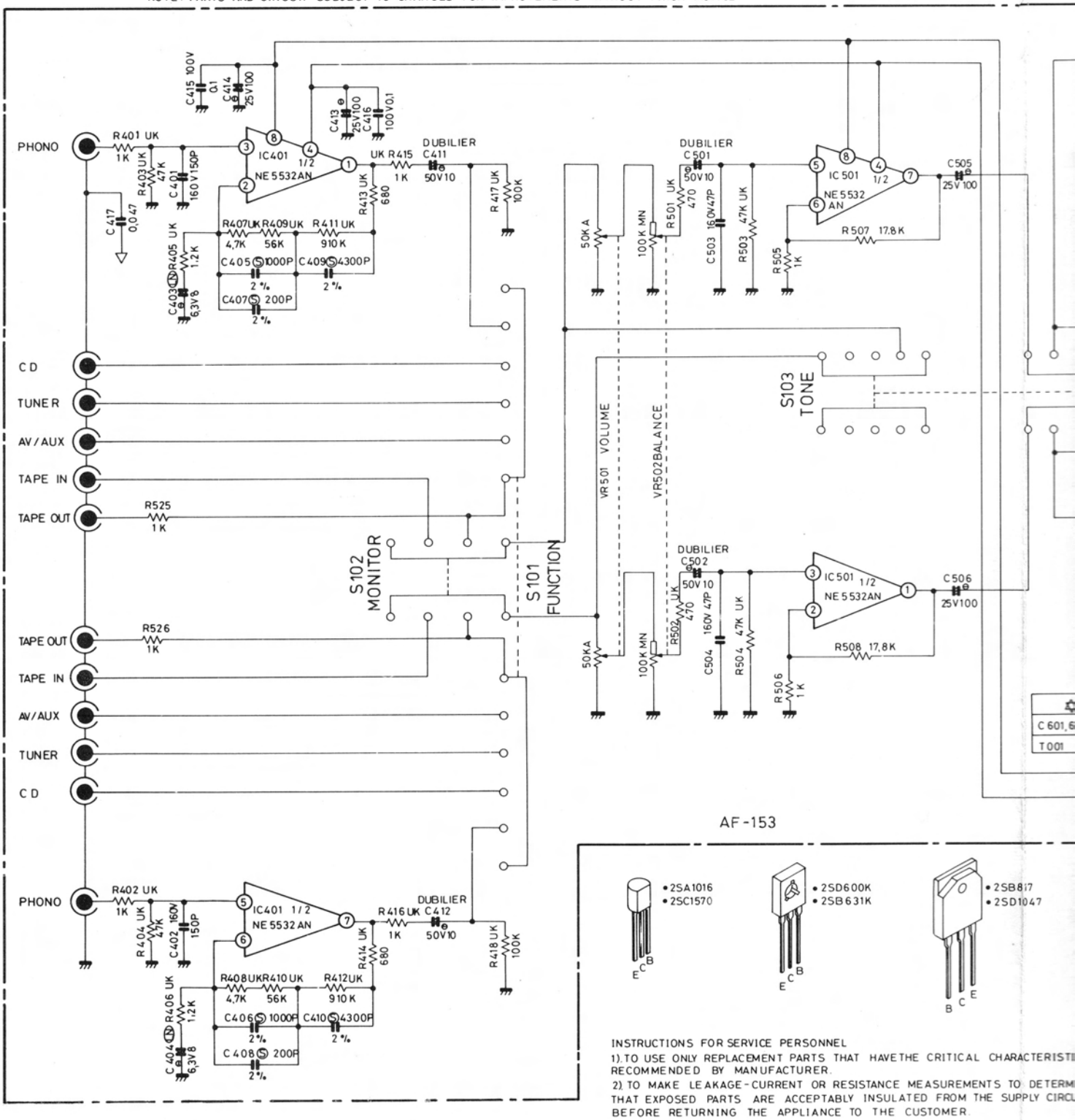
Wiring Diagram




TAPE
OUT
IN
AV/AUX
TUNER
CD
PHONO
TH-AF-153
S103
TONE
S102
MONITOR
S101
FUNCTION
VR501 VOLUME
F901 5A
F902 5A
D903 KBL-02
IC401 NE 5532AN
IC501 NE 5532AN
J2
J3
J4

Schematic Diagram

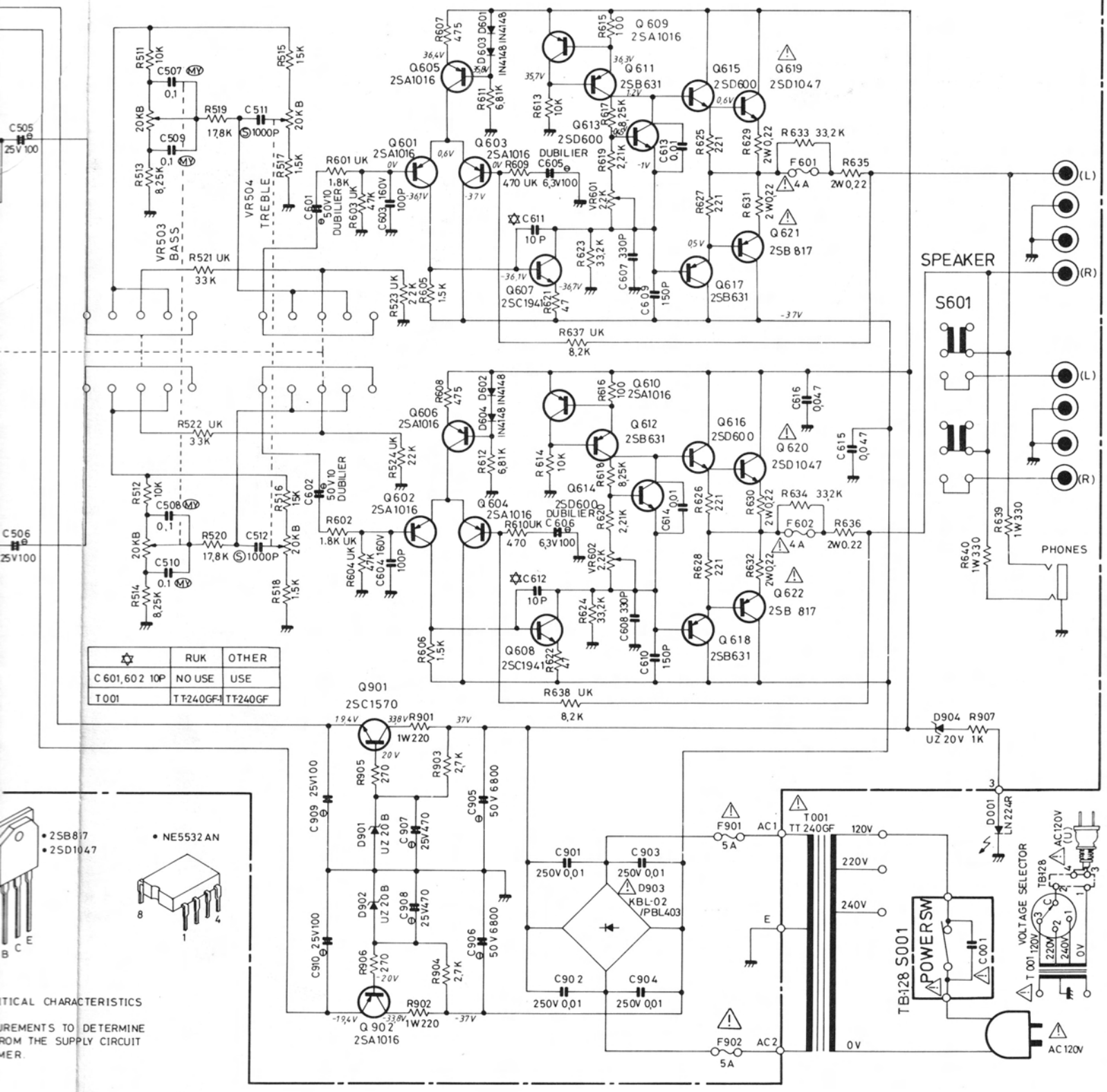
NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENTS WITHOUT PRIOR NOTICE



Repair Parts List

Schematic Location	Computer No.	Description
IC401,501	IC00001693	IC NE5532AN
Q601~606	TR10000023	Transistor 2SA1016 (G.H)
Q607,608	TR30000169	Transistor 2SC1941 (K.L)
Q609,610	TR10000023	Transistor 2SA1016 (G.H)
Q611,612	TR10000047	Transistor 2SB631K (E.F)
Q613,616	TR40000069	Transistor 2SD600K (E.F)
Q617,618	TR10000047	Transistor 2SB631K (E.F)
Q619,620	TR40000045	Power Transistor W/Mica 2SD1047 (D.E)
Q621,622	TR20000040	Power Transistor W/Mica 2SB817 (D.E)

Schematic Location	Computer No.	Description
Q901	TR30000338	Transistor 2SC1570GH/1571GH
Q902	TR10000023	Transistor 2SA1016 (G.H)
D001	DD40000095	L.E.D LN224R
D601~604	DD10000100	Diode IN4148
D901,902, 904	DD20000028	Diode UZ-20B
D903	DD10000020	Diode KBL-02
VR501	RV10001140	Variable Resistor 4TR-2402 50KAx2 Volume
VR502	RV10000457	Variable Resistor 4TR-1793 100K MN Balance



✡	RUK	OTHER
C 601, 602 10P	NO USE	USE
T001	TT-240GF-1	TT-240GF

ITICAL CHARACTERISTICS

UREMENTS TO DETERMINE
ROM THE SUPPLY CIRCUIT
MER.

Schematic Location	Computer No.	Description
VR503,504	RV10000433	Variable Resistor 4TR-1742 20KBx2 Bass, Table
VR601,602	RV40000022	Semi-fixed Resistor VM6CKPV-1S-B 2.2K
F601,602	FU12000045	Fuse 250V 4A
	FU21000071	Fuse Mini 4A
	FU23000049	Fuse 250V 4A S
F901,902	FU12000100	Fuse 250V 5A
	FU21000060	Fuse Mini 5A
	FU23000074	Fuse 250V 5A S
T001	PT24007111	Power Transformer TT-240-GF-1

Schematic Location	Computer No.	Description
T001	PT24007100	Power Transformer TT-240-GF
S101	SH30000390	Function SW 4TR-2398
S102	SH30000389	Monitor SW 4TR-2397
S103	SH30000420	Tone SW 4TR-2401
S601	SH11000239	Speaker SW 4TR-2328
S001	SH40000120	Power SW C-3600B-T