

TECHNICAL MANUAL

ROTEL[®] RA-810A

STEREO INTEGRATED AMPLIFIER

TABLE OF CONTENTS

Chassis Layout	1
Adjustment	1
Wiring Diagram	2
Schematic Diagram	4
Repair Parts List	5

THE ROTEL CO., LTD.

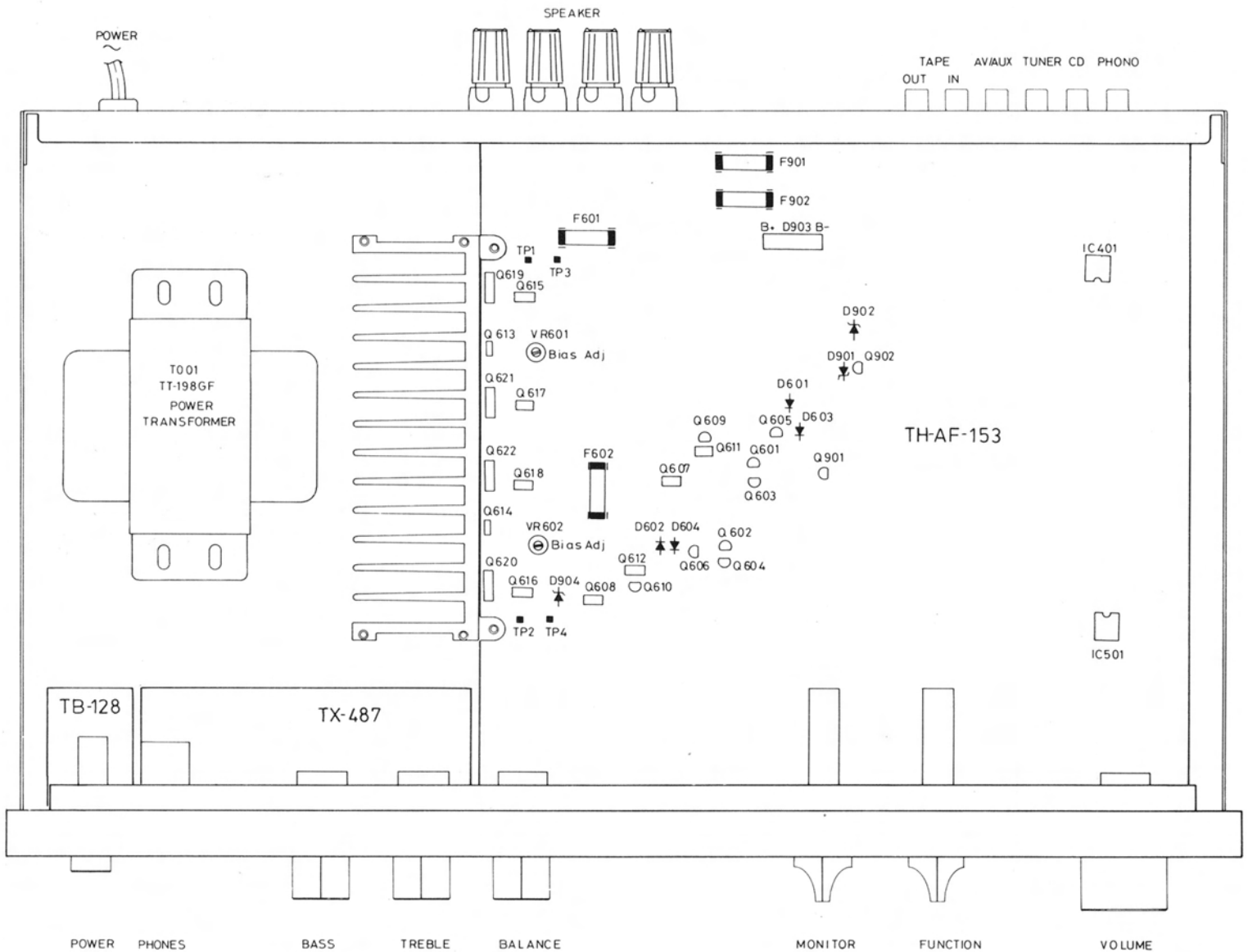
1-36-8 OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN

ROTEL ELECTRONICS CO., LTD.

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

MN20001548

Chassis Layout



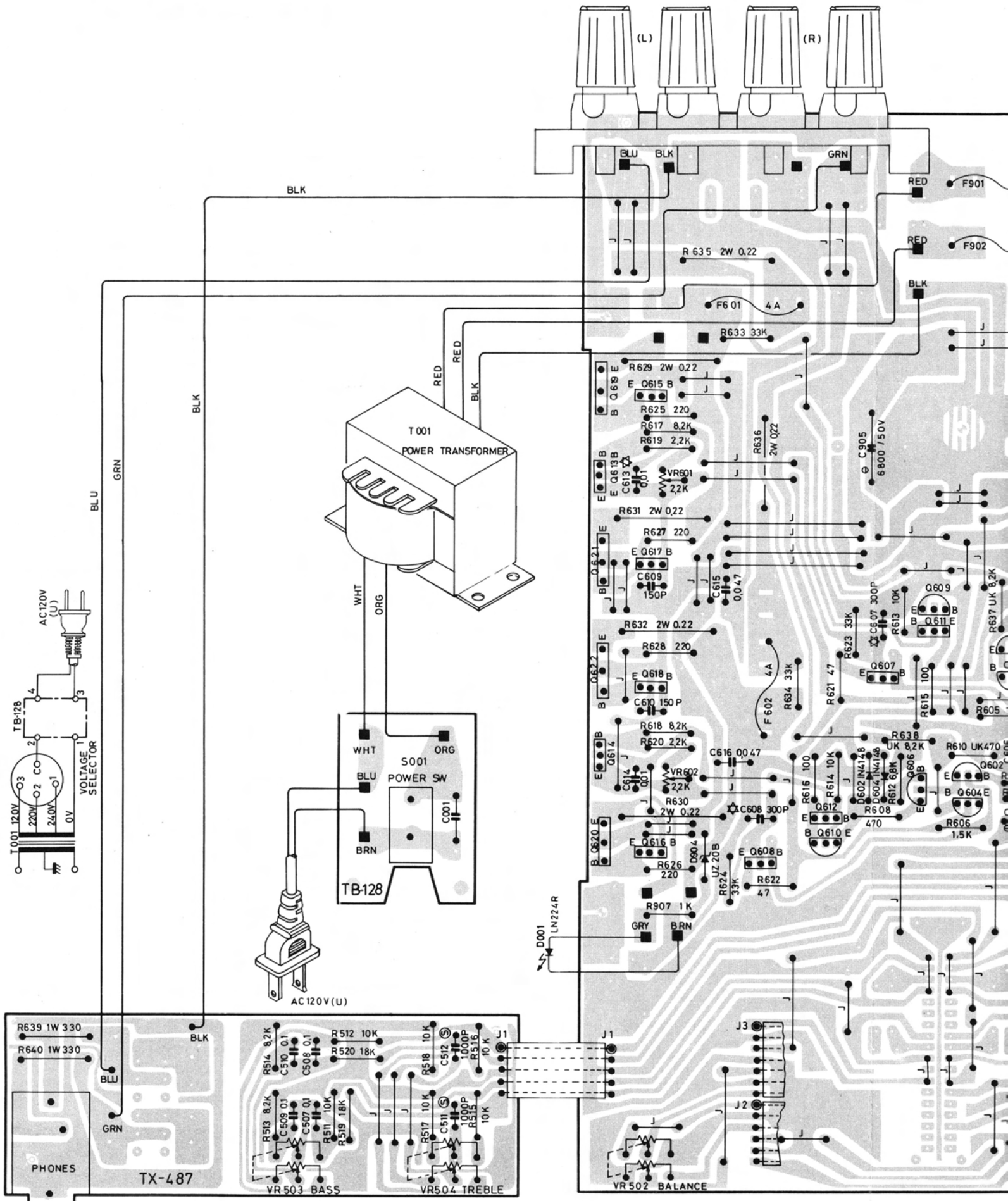
Power Amplifier Bias Adjustment

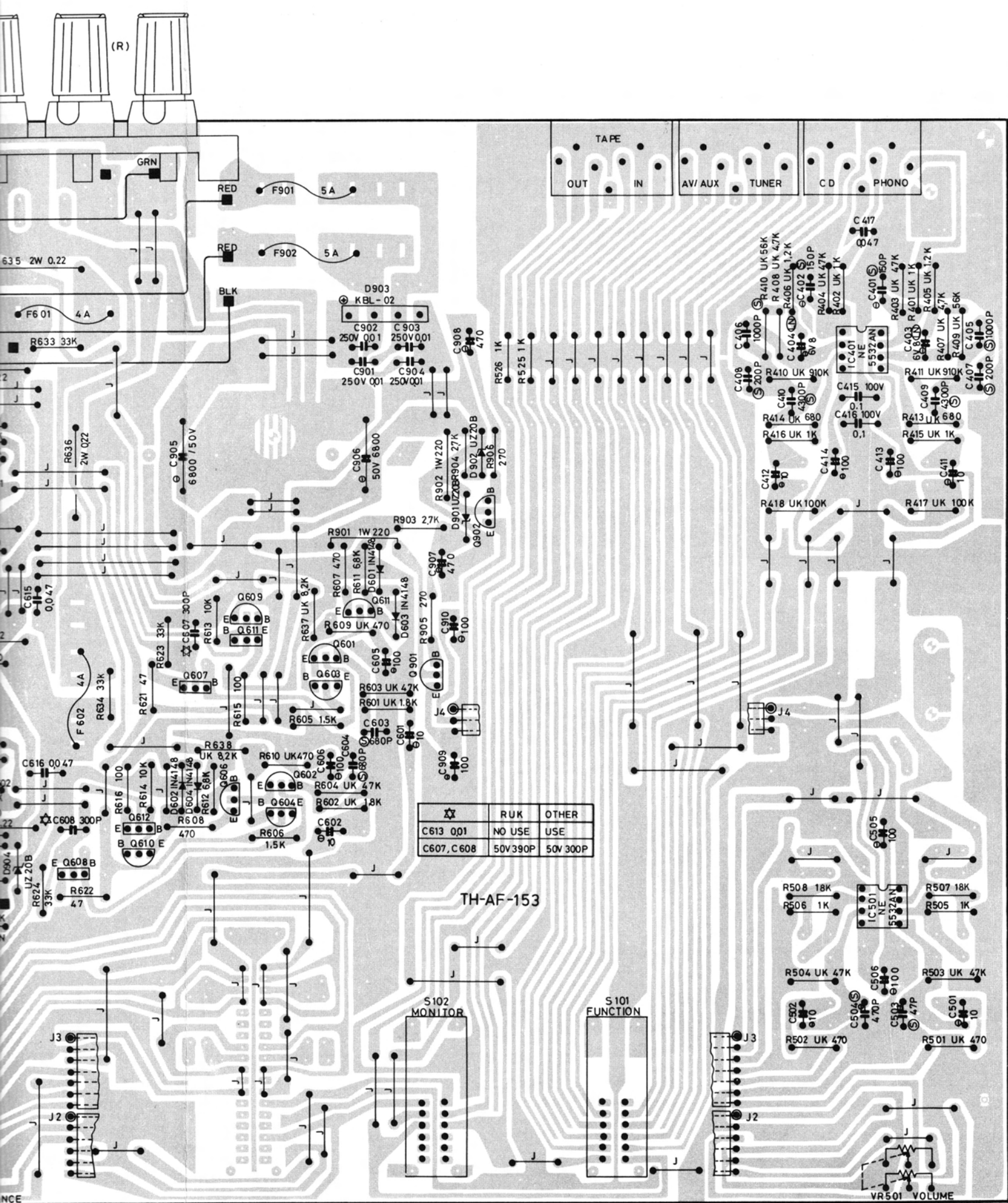
Instruments: DC milli-voltmeter

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



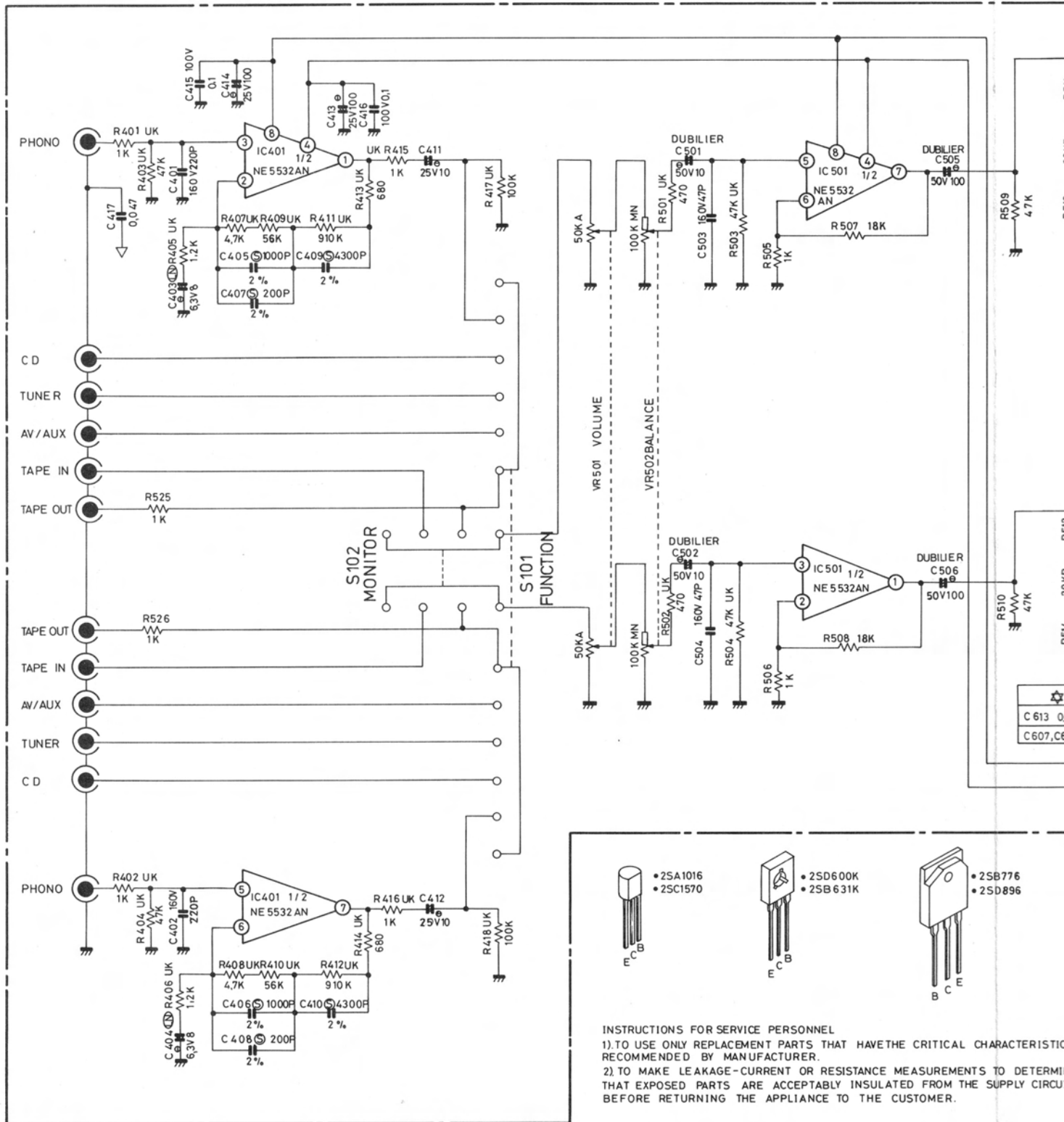


✱	RUK	OTHER
C613 0.01	NO USE	USE
C607, C608	50V 390P	50V 300P

TH-AF-153

Schematic Diagram

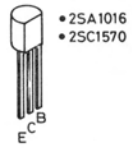
NOTE: PARTS AND CIRCUIT SUBJECT TO CHANGES FOR IMPROVEMENTS WITHOUT PRIOR NOTICE



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	TR40000021	Power Transistor W/Mica 2SD896
Q621,622	TR20000014	Power Transistor W/Mica 2SB776

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	RV10001231	Variable Resistor 4TR-2537 100K MN Balance



- 2SA1016
- 2SC1570



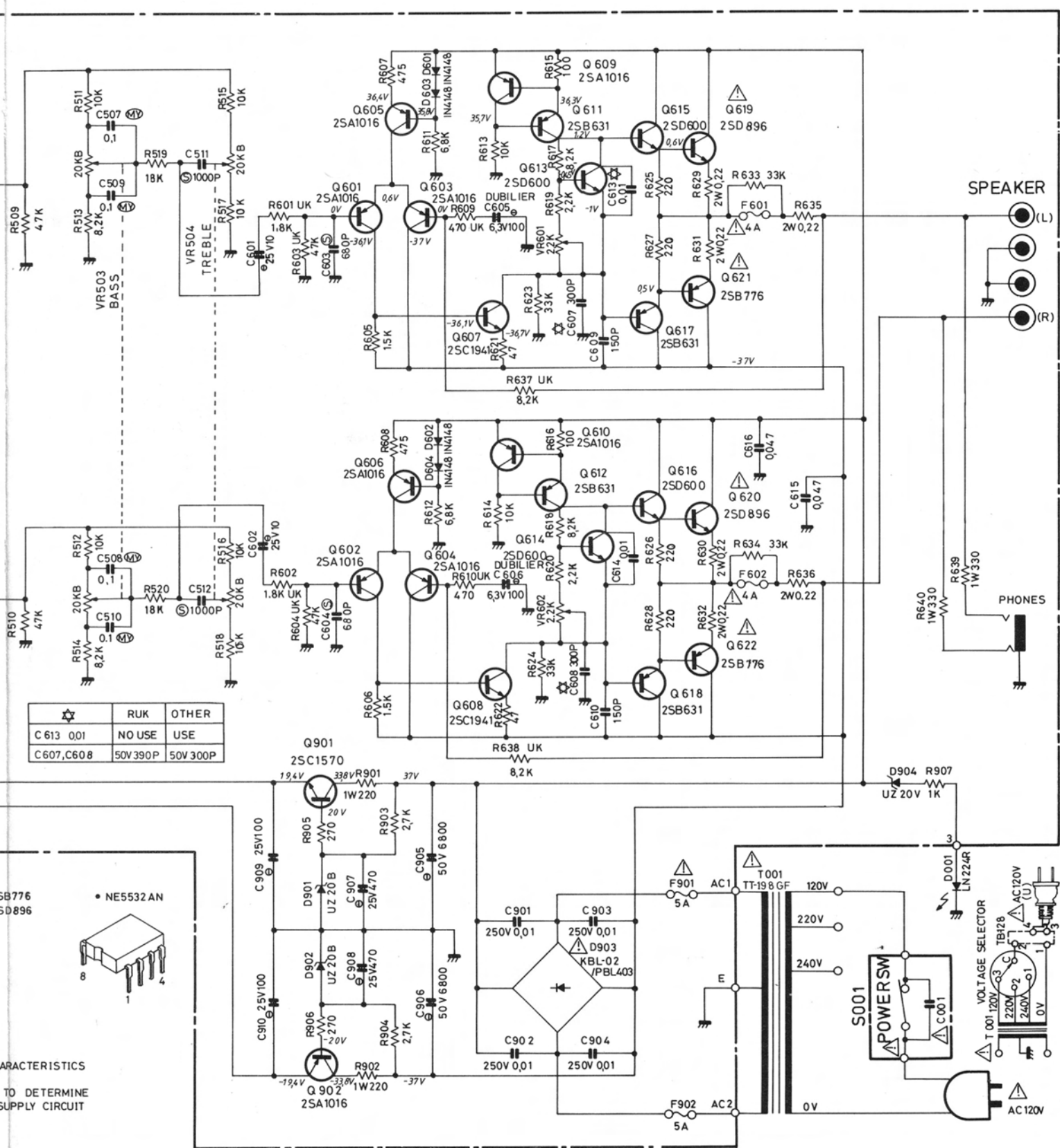
- 2SD600K
- 2SB631K



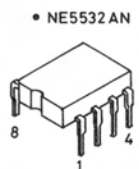
- 2SB776
- 2SD896

INSTRUCTIONS FOR SERVICE PERSONNEL

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



☆	RUK	OTHER
C 613 0.01	NO USE	USE
C 607, C 608	50V 390P	50V 300P



CHARACTERISTICS
TO DETERMINE
SUPPLY CIRCUIT

Schematic Location	Computer No.	Description
VR503,504	RV10001139	Variable Resistor 4TR-2355 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

Schematic Location	Computer No.	Description
T001	PT19807108	Power Transformer TT-198-GF
S101	SH30000390	Function SW 4TR-2398
S102	SH30000389	Monitor SW 4TR-2397
S001	SH40000120	Power SW C-3600B-T