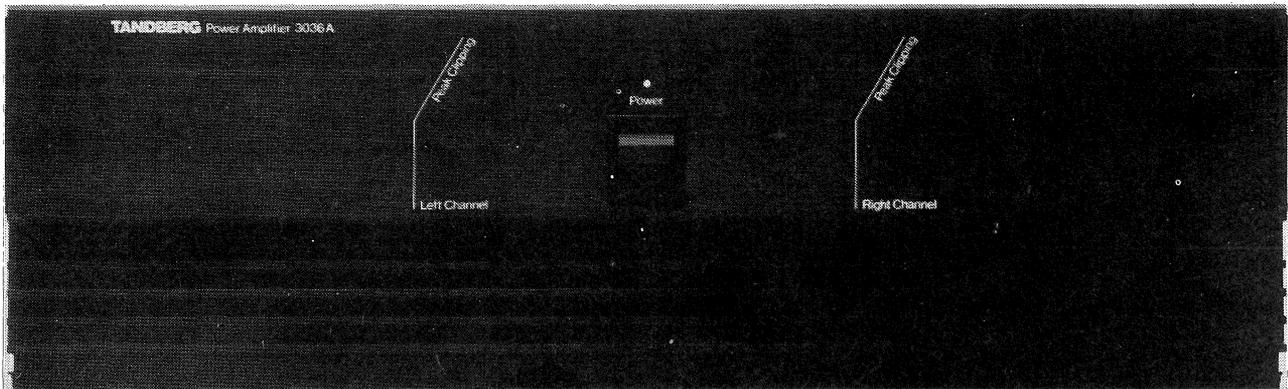
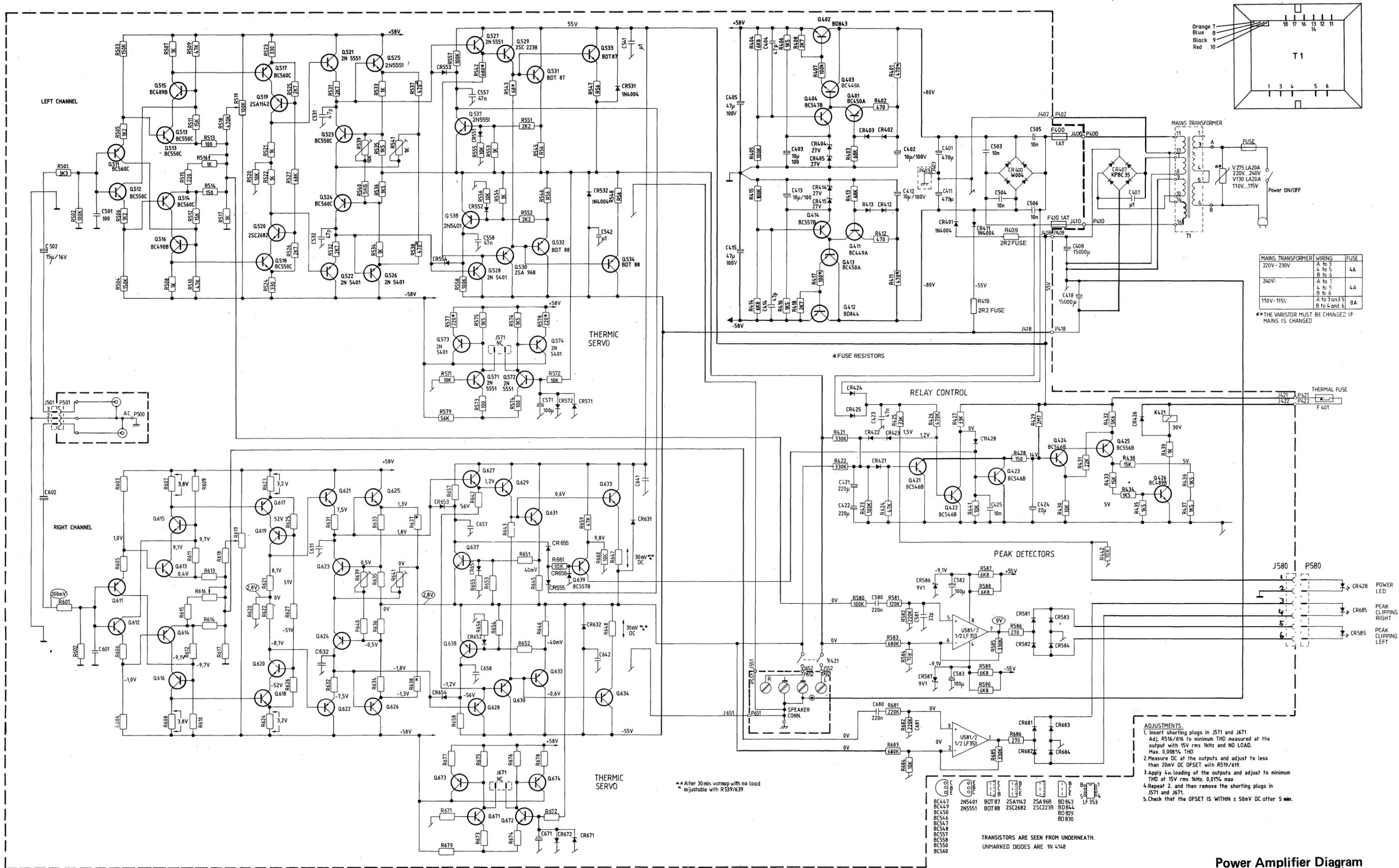

TANDBERG® TPA 3036A

Circuit Diagram and Alignment Instructions



January 1989



MAINS TRANSFORMER	WIRING	FUSE
220V - 230V	A to 3 A to 5 B to 6	4A
240V	A to 1 A to 5 B to 6	4A
110V - 115V	A to 3 and 5 B to 4 and 6	8A

*THE VARIATOR MUST BE CHANGED IF MAINS IS CHANGED

- ADJUSTMENTS:**
1. Insert shunting plugs in J571 and J671. Adj. R516/616 to minimum THD measured at the output with 15V rms 1kHz and NO LOAD. Max. 0.008% THD
 2. Measure DC at the outputs and adjust to less than 20mV DC OFFSET with R519/619.
 3. Apply 4w loading of the outputs and adjust to minimum THD at 15V rms 1kHz. 0.01% max
 4. Repeat 2. and then remove the shunting plugs in J571 and J671.
 5. Check that the OFFSET IS WITHIN ± 50mV DC after 5 min.

- BC447
- BC449
- BC450
- BC546
- BC547
- BC548
- BC557
- BC558
- BC559
- BC560
- 2N5401
- BDT 87
- 2SA1142
- 2SC2682
- 2SA968
- 2SC2238
- BD843
- BD844
- BD 829
- BD 830
- LF353

TRANSISTORS ARE SEEN FROM UNDERNEATH.
UNMARKED DIODES ARE 1N4148

Power Amplifier Diagram

Technical Data	Power Requirements:	110 – 115 V/220 – 230 V/240 V ± 10 %, 50/60 Hz
Tandberg Power Amplifier 3036A	Power Consumption:	50 – 500 W
	Peak Power, 4 ohm:	2 x 240 W
	Continuous Average Power Output (4 ohm, 20 – 20.000 Hz):	2 x 120 W
Dimensions:	Width:	17 1/8" (43.5 cm)
	Depth:	13 3/4" (35.2 cm)
	Height:	5 1/4" (13.3 cm)
	Weight:	23.4 lbs (10.6 kg)

Technical Data according to IHF-A-202, 1978	Continuous Average Power Output:	(8 ohm 20 – 20.000 Hz, THD < 0.08 %) 2 x 100 W
	Frequency Response:	20 – 20.000 Hz + 0/- 0.1 dB
	A-weighted Signal-to-Noise Ratio:	(Ref. 1 W/8 ohm) 90 dB

Secondary Disclosures	Output impedance (20 – 20.000 Hz):	< 0.01 ohm
	Wideband Damping Factor:	> 800
	Low Frequency Damping Factor:	> 2500
	SMPTE Intermodulation Distortion:	0.08 %
	IHF Intermodulation Distortion:	0.08 %
	Transient Overload Recovery Time:	Immeasurable
	Sensitivity:	(1 W) 100 mV (100 W) 1.0 V

Specifications are subject to change without notice.

NOTE

The information in this manual is subject to changes without notification. Additional pages may be inserted in future editions. The user is asked to excuse any omissions or errors in the present edition.

No responsibility is assumed if accidents occur while the user is following the instructions in this manual. No responsibility is assumed for defects in the unit's firmware.

We shall have no liability or responsibility to customer or any other person or entity with respect to any liability, loss or damage caused or alleged to be caused directly or indirectly by equipment sold or furnished by us, including, but not limited to, any interruption of service, loss of business or anticipatory profits or consequential damages resulting from the use or operation of the equipment or software.

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