

Peak Clipping

Power



Peak Clipping

Left Channel

Right Channel

## READ THIS FIRST!

### For your safety!

To prevent electrical shock or fire, do not expose electronic products to rain or moisture, and do not remove covers (or back). If anything fails, leave the repair to a qualified technician.

Pull out the power plug during thunder storms and when you are away for a long time (e.g. holidays, etc.).



### Warning!

Faults on the units caused by the circumstances described in the warnings below, do not necessarily apply for warranty service.

#### Main power

In some areas the main power wall outlet carries high frequency data and intercom communications. To prevent this high frequency to reach the receiver/power amplifier, an HF filter should be connected in the power line. Ask your local Tandberg dealer if this high frequency is in your area. Should this high frequency reach the receiver/power amplifier, and interfere with the electronics, damage may occur in the outputstage or the speakers.

#### Connecting

When connecting the units in a HI-FI system together, it is very easy to touch the hot wire on the phono lead and generate a hum signal. This signal can be amplified and cause damage to the receiver/power amplifier or the speakers. To avoid this problem, switch off all the units in the system before connecting.

#### Speaker connection

Use speaker systems with two speaker wires (+ and ÷) to each speaker. Some speaker systems have common ground between the speakers, and this may cause oscillation. If this type of speaker system with common ground is used, damage may occur in the receiver/power amplifier or speakers.

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## Power requirements

Make sure the power amplifier is marked at the rear panel with the correct mains voltage for your area\*:

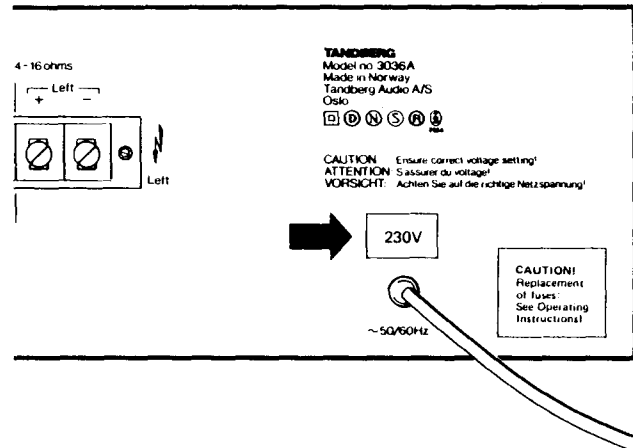
US version: 110 – 115 V ± 10 %, 50/60 Hz  
European version: 220 – 230 V ± 10 %, 50/60 Hz  
GB version: 240 V ± 10 %, 50/60 Hz

Changing the mains voltage setting and fuse (inside) should be carried out by a qualified service technician.

The power consumption is 500 watt maximum.

### Fuses:

220 V/240 V: 4 A, slow blow, 5 x 20 mm.  
115 V: 8 A, slow blow, 5 x 20 mm.



Check that the power amplifier is marked with the correct mains voltage.

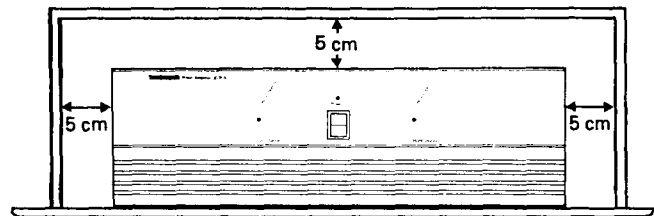
## Placing the amplifier

The best position for TPA 3036A is free on a shelf with sufficient ventilation/space to each sides and the top, see figure. If the shelf is open on the back, the space to the sides and the top can be slightly reduced.

Never place the amplifier on soft surface that can impede ventilation or in front of or above a radiator.

If placing units on top of each other the power amplifier must always be positioned at the top.

**Important!** Never place any other equipment on the top of this amplifier, as this may cause damage to the other equipment.  
In rack, make sure that sufficient ventilation is available, for instance a fan.



## Connections

**Important!** All connections should be carried out **before** the Power is switched on\*.

- Connect the speakers to the speaker terminals. Make sure that the polarity is correct\*.
- Connect the signal source to the Normal or Lab input using High Resolution phono cables for best performance.

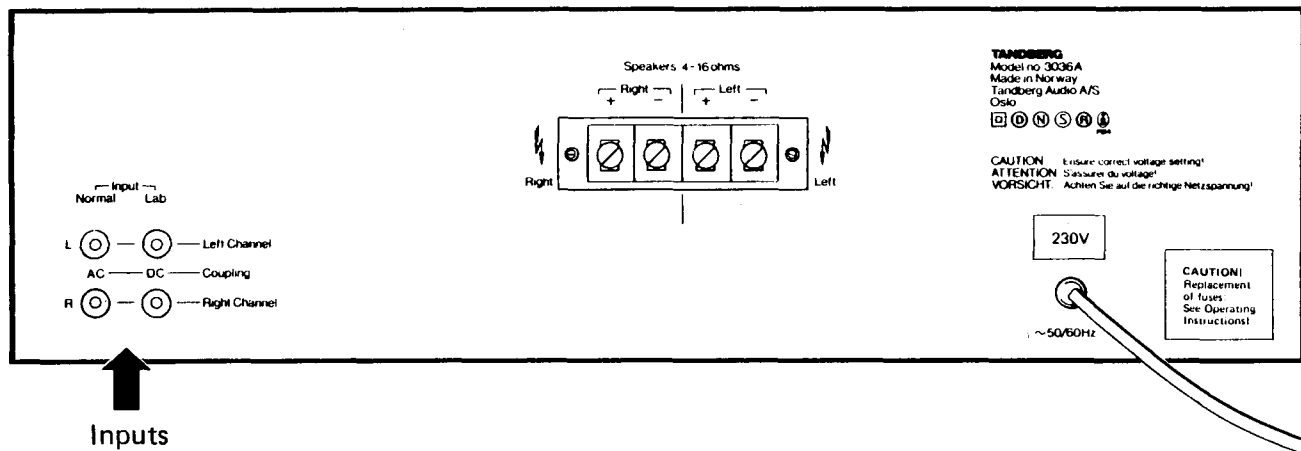
**NOTE!** If the DC voltage fed to the Lab input exceeds 10 mV, damage can occur in some speaker systems.

**Normal:** Input for common outputs on most of other equipment.

**Lab:** Inputs for AC coupled outputs from other equipment with less than 10 mV DC on the output.

The unused inputs should be left open. Do not use shorting plugs.

- Plug the mains lead into the wall socket.

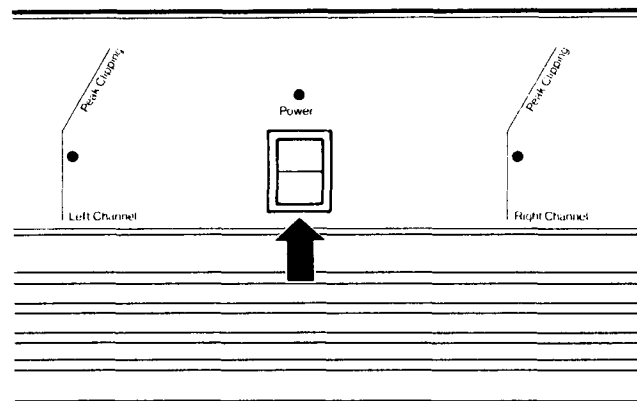


## Switching on

Check that the power amplifier is marked with the correct voltage on the rear panel.

**NOTE!** A protection circuit will cause an approx. 12 - 15 seconds delay before the power amplifier is ready for operation after switching on.

Switch on the mains with the switch marked Power, and the Power LED will light. Peak clipping LEDs may flash when switching on.



# Peak Clipping indicators

The indicators (one for each channel) will flash when peak clipping of the signal occurs.

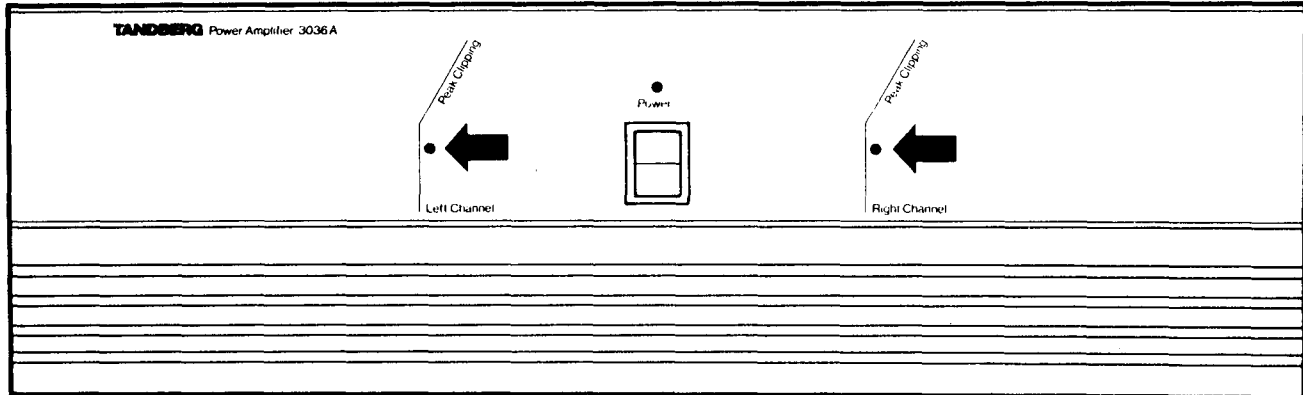
## Protection circuits

Electronic circuits will protect the power amplifier against:

– Overload and short-circuiting of the speaker terminals.

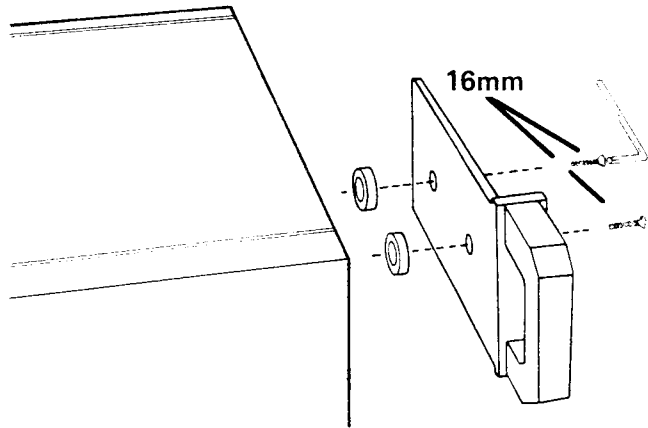
– Flashback from inductive speaker loads.

The same circuits prevent DC-voltage from reaching and damaging the loudspeakers.



## Accessories (extras)

### Mounting the 19"-rack mount kit (extra)

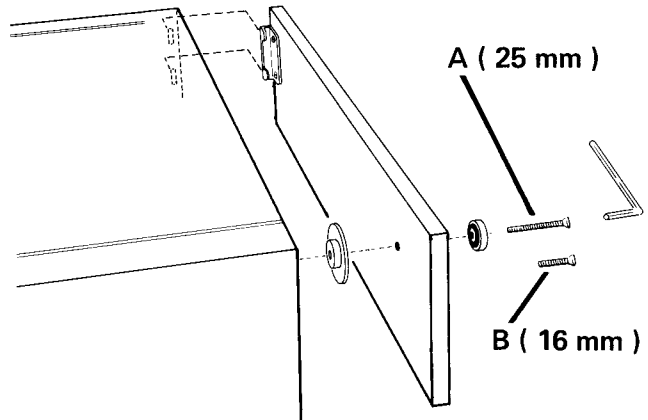


### Mounting the side panels (extra)

#### NOTE!

When fitting extra side panels you must use the long screws (A) which are supplied.

**Take care of the short screws (B) originally used to hold the side panels because you will need them if you remove the extra side panels. The long screws must not be used without the extra side panels because they can cause damage inside the power amplifier.**



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## Technical data

<b>Tandberg Power Amplifier 3036A</b>	<b>Power Requirements:</b>	110 – 115 V/220 – 230 V/240 V ± 10 %, 50/60 Hz
	<b>Power Consumption:</b>	50 – 500 W
	<b>Dimensions:</b>	Width: 17 1/8" (43.5 cm) Depth: 13 3/4" (35.0 cm) Height: 5 1/4" (13.0 cm) Weight: 23.4 lbs (10.6 kg)

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

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

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Specifications are subject to change for further improvement without notice.

**TANBERG** Power Amplifier 3036A