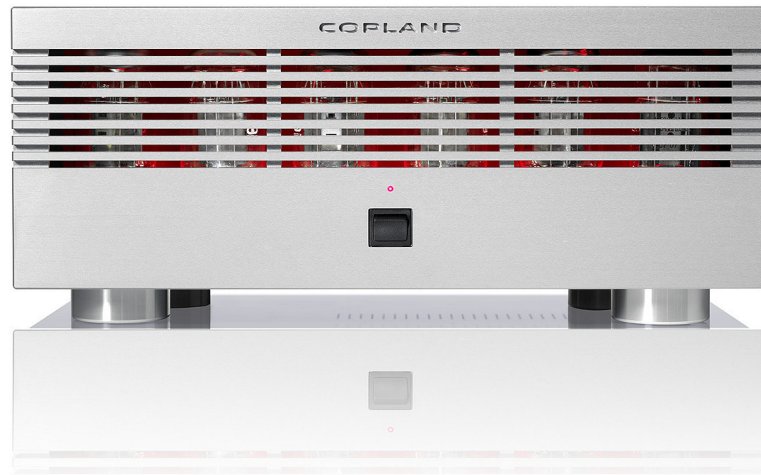


**COPLAND**

**CTA506**



**USER GUIDE**

## **Introduction**

We would like to take this opportunity to thank you for selecting the CTA506 amplifier. We at Copland wish you many enjoyable hours in the company of fine music. Please read this owner's manual before operating the equipment.

## **CAUTION !**

Various regulation agencies require us to bring the following information to your attention. Please read carefully.

**WARNING !** To prevent fire or shock hazard, do not expose this unit to rain or moisture.

- ! Check that the transport protection of the output valves has been removed as described below under "installation".
- ! Check that your supply voltage is the same as indicated
- ! Dangerous voltage inside. Do not open the cabinet unless the amplifier is completely disconnected from the AC main wall outlet. There are no user serviceable parts inside. Repairs should be carried out by qualified service personnel only.
- ! Ensure that no objects or fluids pass through the ventilation openings. If liquid is spilled into the amplifier, disconnect from the mains and consult a qualified service technician.

## **Installation**

Open the carton and remove the amplifier from its plastic bag. The AC-power cord is placed in the bottom of the carton. Before placing the unit in your home read this carefully.

To prevent the output valves from disconnecting and being damaged during transport, a piece of foam plastic has from the factory been placed between the output tubes and the top cover of the chassis.

The foam plastic is clearly visible through the ventilation holes in the top cover.

Please make sure that the protective foam plastic has been removed and all valves are firmly positioned in the sockets before use of the amplifier.

Do not subject the amplifier to high mechanical vibration; the valves are sensitive to this.

The trouble free life of an electronic instrument is greatly extended by providing sufficient ventilation to prevent the build up of high internal temperatures that cause deterioration. Allow enough clearance so that cool air can enter at the top.

The recommended minimum space over the amplifier is 45 cm deep, 45 cm wide and 40 cm high.

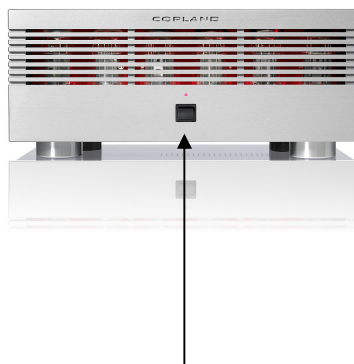
## Input / Outputs

Use shielded cables to connect the signal source to the amplifier input. To minimise the possibility to hum the shielded cables should run parallel to each other or loosely twisted together. Locate the cables away from speaker leads and AC power cords. Selection of the proper gauge wire to connect the loudspeakers reserves the quality of sound reproduction for which the loudspeakers has been designed. If undervoltage wire is used, resistance is added to the amplifier/loudspeaker combination, which adversely affects the performance. Added resistance causes reduction of the damping characteristics. All connections is made on the back panel of the amplifier.

## AC Power

The amplifier AC power cord is plugged into a 110/120/220/240 volt 50/60 Hz wall outlet. The right voltage is indicated on the back panel just beside to the AC power inlet.

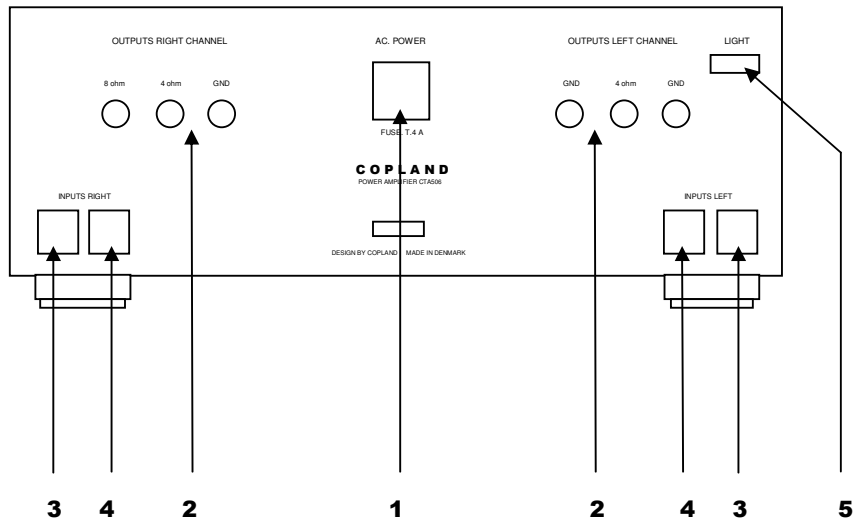
## Front Panel



**1**

**1 : Power On/Off :** The amplifier is on when the rotary switch is in vertical position. The red LED will light up, indicating that power is on. By turning the rotary switch anticlockwise, the amplifier will be turned off.

## Back Panel



**1 : AC Power :** The AC Power Cord is plugged here.  
The amplifier AC power cord is plugged into a 110/120/220/240 volt 50/60 Hz wall outlet. The right voltage is indicated on the back panel just beside the series number.

**2 : Speaker Output Terminals :** Connect the leads from left loudspeaker to the red left, and common to the black left.  
Connect the leads from right loudspeaker to the red right, and common to the black right.

**3 : Inputs :** For single ended RCA- inputs.

**4 : Inputs :** Balanced input connectors ( Non inverting single ended operation )

**5 : Light :** Illumination of the power valves : I = ON . O = OFF

## Maintenance

The amplifier is build for a long lifetime, and no special care needs to be taken apart from what is already described under installation. However the heart of the amplifier is the Valves / Tubes and like a light bulb, they have a limited lifetime and can therefore after a period affect the performance of the amplifier. You should therefore after 4000 playing hours, or if the amplifier changes sound, contact your service agent for replacement of valves.

## Warranty and Service

Copland provides a warranty to the first purchaser for a period of one year.  
Copland usually commissions the Copland agency in the country in which the amplifier was purchased to carry out any warranty work.  
Following consent from Copland in a particular case, the warranty service may also be claimed at an agency in another country.

## CTA506 Specifications

Valves	KT120	4pcs.
	6550	2pcs.
	12BH7	4pcs.
	ECC81	2pcs.
Rated power	90W watts per channel continuous from 20Hz to 20kHz	
THD.	Less than 1 % at all levels	
Frequency response	5 Hz to 100 kHz - 3 dB	
Input sensitivity	1,5V for rated power	
Input impedance	100K ohms	
Overall negative feedback	17 dB	
Output taps:	16 ohms, 8 ohms, 4 ohms.	
S/N ratio ( IHF-A )	More than 100 dB	
Output polarity	Non-inverting	
Power consumption	600 W	
Nominal mains voltage	120V, 230V or 240V Factory set for destination country only	
Mains voltage range	+/- 12 %	
Dimensions (mm.)	430 (W) 190 (H) 390 (D)	
Wight	26 kg	