



Chord Electronics Ltd.

# TToby

100w Stereo Power Amplifier



# Owners Manual

## Welcome:

Congratulations on your purchase of the TToby, the perfect amplifier for environments where space is at a premium, or for our Hugo TT (Table Top) DAC/Headphone Amplifier/Preamp.

Before you begin to enjoying your new Chord Electronics device, please take a few minutes to read this manual and familiarise yourself with how to connect your equipment to maximise your listening experience.

## Safety Instructions and Warnings:

To reduce the risk of electric shock, please follow all instructions and do not attempt to disassemble the product, block any ventilation holes, or expose to moisture. There are no user serviceable components inside.

In case of fault, or contact with moisture, please discontinue use immediately and refer servicing to an authorised Chord Electronics dealership.

## Power:

TToby is supplied with its own grounded 10A fused Mains IEC lead and it is important that the amplifier is earthed at all times via this, or an appropriate alternative. Failure to do this could be hazardous in the unlikely event of a fault.

Please note that TToby employs an auto-sensing mains input voltage circuit and will adjust to suit your regions supply. There are no user configurable settings. TToby will operate between 120v AC and 240v AC - 50Hz - 60Hz.

TToby comes supplied with its own region specific 10A 1.5m Mains IEC Cable. You can supplement this for an alternative power supply, however please make sure that it has an earth. In the unlikely event that the fuse blows you must only supplement it with a 10A replacement. TToby is fully protected in the event of a short circuit, or fault and will automatically shut down.

**If any cable becomes damaged you must discontinue use and replace it immediately to avoid electrocution.**

To operate TToby there is a single analogue rocker switch located below the mains voltage input. This will switch the unit on and off. During the initial startup phase, TToby will power up and perform a safety check, which is indicated by the LED glowing green below the Chord Electronics badge. Once complete, after approximately twelve seconds, the relays will engage and the output will be live, the front panel light will now glow a blue/green colour to indicate this. If a fault is detected the unit will simply switch itself off.

As TToby consumes very little power when idle, we recommend leaving the unit switched on when not in use when combined with the Chord Electronics Hugo TT DAC/Headphone Amp.

**This unit complies with EN 50081-1 and IEC 801/2**

## Placement and Ventilation:

Like any amplifier, it is important that sufficient ventilation is provided. Please do not place TToby in an enclosed environment, cover any of the ventilation holes, or use adjacent to other equipment that exhausts significant heat with use. You can, however, stack Hugo TT on top of TToby, although we advise that it is set to the side for optimal performance.

TToby is a Class A/B amplifier that will get warm in use, particularly when pushed to its upper limits. TToby employs an forced air cooling method, whereby air is guided over the internal MOSFET camber by four intelligent temperature sensing fans. This allows the casing to act as a heat-sink and air to escape via the 490 vents. For safety TToby is equipped with a protection circuit which will shutdown the amplifier if excessive temperatures have been reached. In the unlikely event that this occurs, please manually switch the unit off and wait fifteen minutes to continue.

TToby has been designed to be operated in environments where space is at a premium, yet still deliver Chord Electronics renowned audio quality. We advise TToby for Table Top use.

## Audio Inputs:

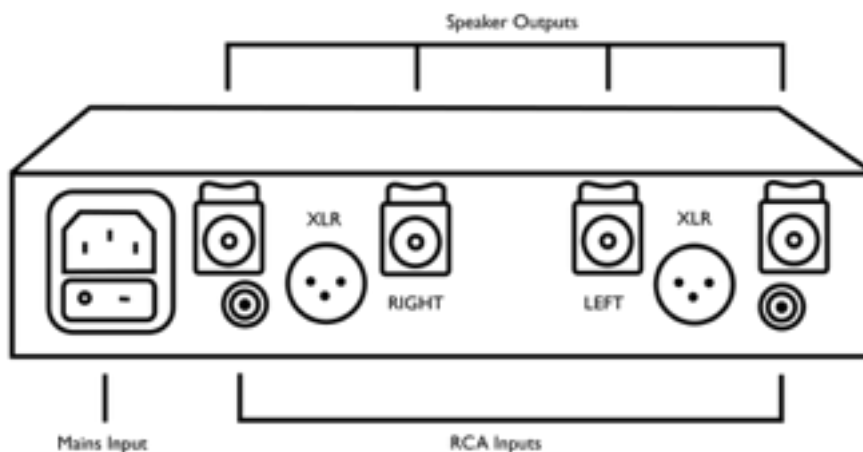
TToby comes equipped with a stereo pair of unbalanced (single-ended) RCA inputs and a stereo pair of balanced XLR inputs. TToby has no ability to switch between the inputs, therefore you must only use one.

TToby must be connected to a dedicated preamplifier, or a device capable of attenuating the output. Failure to attenuate the volume before it enters TToby can result in irreversible damage to your hearing, loudspeakers, and will void the warranty.

## Audio Outputs:

TToby is a stereo power amplifier that supports a single stereo output - 100w per channel. In order to connect TToby to your loudspeakers you are able to use a pair of banana plug connectors, a pair of spade type connectors, or a raw wire connection.

Please connect the black negative terminal from TToby to the negative terminal on your loudspeakers, and the red positive terminal from TToby to the positive terminal on your loudspeakers.



## Earthing Issues in Europe:

In some European countries a hum or buzz may occur if your amplifier is connected to mains sockets that do not have an earth, or adequate earth. If this occurs, please ensure that your equipment is connected via a multi-way mains block which contains an earth point at every socket outlet.

We recommend that an earthing method for your building is implemented.

## Warranty:

Chord Electronics Ltd. guarantees that TToBy is free from any manufacturing defects for a period of five years from the original date of manufacture. This warranty is inclusive of any parts and labour.

In the unlikely event of malfunction, please contact your original Chord Electronics retailer to facilitate the return and repair of the device. A full GRN report must be included within the package, along with the customers name, address, email address, and telephone number. Failure to include this information will result in a return.

Out of warranty repairs will be chargeable, including shipping, and will be fairly costed on a case by case basis.

## Online Registration:

Your unit must be registered with Chord Electronics to activate your comprehensive warranty. Please visit the following address to complete your registration: [chordelectronics.co.uk](http://chordelectronics.co.uk)

## Specifications:

<b>Output Power:</b>	100w rms per channel @ 0.016% distortion into 4Ω
<b>Frequency Range (4Ω):</b>	5Hz - 100kHz +/- 0.5dB
<b>Signal to Noise Ratio:</b>	Better than -103dB
<b>Channel Separation:</b>	Better than 95dB
<b>Input Impedance:</b>	100kΩ Unbalanced/Balanced
<b>Input Capacitance:</b>	<30pf
<b>Output Impedance:</b>	0.02Ω
<b>Output Inductance:</b>	2.6μH
<b>Slew Rate:</b>	70v per μS 1kHz, 20v Square Wave
<b>Gain:</b>	30dB
<b>Stability:</b>	Unconditional
<b>Weight:</b>	3.75kG
<b>Dimensions:</b>	225mm x 235mm x 55mm