
MUSICAL FIDELITY

X-Tube

Tube Output Buffer

Manual



X-Tube Tube Output Buffer

Thank you for purchasing the X-Tube. It is a Tube Output Buffer designed to enhance your audio sources. Modern CD players, budget network streamers or DACs often do not feature high quality output stages. This is done simply for cost reasons. Cheap integrated IC solutions are used that don't have the power to properly drive line inputs in many amplifiers. The X-Tube has a clean, high impedance tube input, meaning it won't put as much strain on the output drive capabilities of connected source devices. Regular line inputs on most amplifiers are usually more demanding and cheap output stages will struggle. On the output side, the X-Tube's clean, low impedance tube output buffer has plenty of drive and will not struggle with any low or high impedance amplifier input. We sincerely hope that the X-Tube will bring you many years of outstanding listening pleasure.



Warning of a hazard for the user, the unit or possible misuse.



Important notice.

Safety instructions

AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the device.

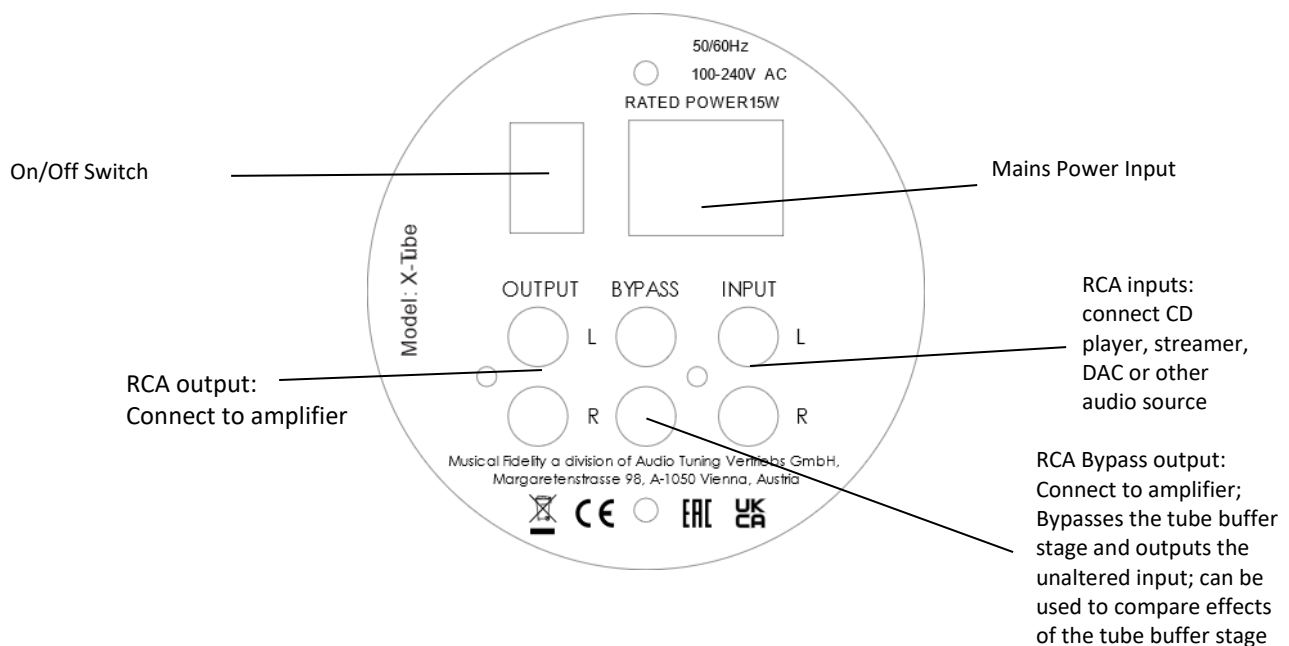
Never handle the device while your hands are wet or damp.

Avoid letting liquids enter the device. Never place any item containing liquid, such as a flower vase on or near the device. Never spill any liquid on the device. Never place any naked flame sources, such as lighted candles on or near the device. The product shall not be used in damp or wet locations, next to a bathtub, sink, swimming pool or any other similar conditions. Place all connecting cables where they are not likely to be walked on or trapped by items placed on them. The unit will operate in accordance with its specifications within the following environmental range: Temperature 5 to 45 degrees Celsius; Humidity 10 to 90% non condensing



This Hi-Fi product has been tested to ensure that its operation is not adversely affected by normal background levels of Radio Frequency Interference (R.F.I.), and that it does not itself generate excessive amounts of interference. However, if a problem persists, please contact your Musical Fidelity agent.

Connecting the X-Tube



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Using good quality RCA leads (not supplied), connect the left and right outputs from your CD player, streamer, DAC or other audio source to the X-Tube **LINE INPUT** sockets. The **BYPASS OUTPUT** sockets are simply duplicates of the **LINE INPUT**, and are directly connected internally. This is to allow further connection to other audio equipment if required and to compare the effects of the tube buffer stage.

Now connect your X-Tube left and right **OUTPUTS** to the CD or auxiliary line inputs of your amplifier system.

Connect the power cable to the unit and to the mains.



This product has been designed so that it may be left on indefinitely, but please note that it may become warm to the touch - this is normal.



*Make all connections whilst the X-Tube is **switched off and disconnected from the mains**.
Make sure the AC input selector matches mains voltage in your country.*

Main power switch

The switch on the backpanel turns the unit on or off. The blue LED on the front panel shows that the unit is switched on.

Technical specifications

Input impedance	470k Ohms
Output impedance	< 33 Ohms
THD	< 0.003% 10Hz to 20kHz
Frequency response	20Hz to 80kHz + 0, - 0.3dB
Crosstalk	> 95dB, 20Hz to 20kHz
S/N ratio	> 96dB unweighted ref. full output
Tube type	6922/E88CC (two)
Gain	1dB
Input voltage	AC 100-230V 50/60Hz IEC C14 socket
Dimensions W x H x D	108 x 105 x 274 mm
Weight	2,29 kg net / 2,58 kg in shipping box

Service

Should you encounter a problem which you are not able to alleviate or identify, please contact your dealer for further advice. Only if the problem cannot be resolved there, the unit should be sent to the responsible distributor in your country.

Warranty



The manufacturer accepts no responsibility for damage caused by not adhering to these instructions for use. Modification or changes to any part of the product by unauthorized persons release the manufacturer from any liability over and above the lawful rights of the customer.

Should a problem be encountered which cannot be identified or resolved, please contact point of purchase/dealer for further advice. Only if the problem cannot be resolved there, the unit should be sent to the responsible distributor in your country. Warranty is valid in *country of purchase and for*

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original purchaser only and is not internationally nor personally transferable. Never open the case of the unit yourself, as this will invalidate the warranty. There are no user adjustments inside. Please refer all service work to an authorised Musical Fidelity agent.

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The information was correct at the time of going to press. The manufacturer reserves the right to make changes to the technical specification without prior notice as deemed necessary to uphold the ongoing process of technical development.

Declaration of Conformity

Musical Fidelity a division of Audio Tuning GmbH

Margaretenstrasse 98

1050 Vienna,

Austria

declare under our responsibility that the product is in conformity with the provisions of Directives:
2014/35/EU including amendments
2014/30/EU including amendments

STN EN 62368-1:2015 - Safety

STN EN 55035:2018 - Electromagnetic compatibility of multimedia equipment - Immunity requirements

STN EN 55032:2015 - Electromagnetic compatibility of multimedia equipment – Emission requirements

MUSICAL FIDELITY

a Division of Audio Tuning Vertriebs GmbH

Margaretenstrasse 98

A-1050 Vienna

AUSTRIA

+43 1 544 858 0400

<http://www.musicalfidelity.com>

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice. E+OE.



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DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact local government office or retailer for available collection facilities.



DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Røhs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.



DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclar como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otras basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.



RIFIUTI

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio governativo locale od il rivenditore del prodotto.



FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.



AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.



HÄVITTÄMINEN

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.



AFSKAFNING

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.



ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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