

Instructions for use

Thank you for purchasing the Musical Fidelity M8s 700m fully balanced "monobloc" power amplifier.

The M8s 700m is designed to be partnered with present and future M8 series products. It is, in fact, based on the Titan design. It features twin high-current power amplifier sections connected in bridged mono configuration for the absolute best in dynamics and drive capabilities. Two paralleled and generously over specified power supplies also ensure unsurpassed supply noise filtering, transient handling and massive power reserve possible in a single box power amplifier Phase splitting between the two internal amplifiers is achieved using a high performance fully balanced converter circuit with wide flat frequency response uniform in-band characteristics and immeasurably low distortion and noise.

Fully balanced as well as single ended inputs are catered for with loop outputs for both types, for bi-amping etc. Trigger input/output allows the unit to be controlled/controller for switch on/off function.

This combination yields one of the best high-fidelity power amplifiers available at any price.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

If there are any questions about the product or related, please consult the dealer who is there to help and advice.



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SAFETY INFORMATION

IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, it is necessary to remove the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children.

It must not be plugged into a mains outlet.

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellowEarth
Blue......Neutral
BrownLive

WARNING - This appliance MUST be earthed

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in the plug, proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol:
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- If connecting to a BS1363 plug, a 13 amp fuse must be used.

WARNING:

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

GENERAL ADVICE

Installation, Precautions & User Information

This new M8s 700m is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

- This unit features a **BRIDGED** speaker output and should **NOT** be grounded on either speaker output terminal as both red and black speaker terminals are effectively "hot", i.e. carry signal. Please check if using any active "sub", electrostatic, or other non standard potentially grounded speaker types directly connected to the speaker outputs of the M8s 700m. Consult speaker manual or supplier if in doubt.
- · Heed all warnings shown on the back of the product.
- · Only connect the M8s 700m to a mains outlet havinghe same voltage as marked at the back of the unit.
- · Always ensure that when disconnecting and reconnecting audio equipment the mains supply is switched off.
- Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.
- Do not use near water, or place water-filled containers on the M8s 700m, for example, a flower vase or potted plants. If water does spill inside, immediately pull out the mains plug from the wall socket and inform the dealer, who should then check the unit before further use. Entry of liquid into the M8s 700m is dangerous, and may cause electric shock or fire hazard.
- · Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.
- Do not remove any covers or try to gain access to the inside. There are no end-user changeable internal adjustments or components. Refer all service work to an authorised Musical Fidelity agent. * Note: Unauthorised opening of the equipment will invalidate any warranty claim.
- Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents they may harm the surface finish.
- The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of the audio system during electrical storms, remove the mains plugs.

If after-sales service is required, to help the dealer identify the M8s 700m please quote the serial number located on the rear panel of the unit.

MONOBLOC POWER MPLIFIER MS 100 M

ITEM DISPOSAL INFORMATION





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 Rohs 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 reciclarse 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 govenativo 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.

<u>HÄVITTÄMINEN</u>

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.

<u>AFSKAFNING</u>

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

ΤΟ ΣΗΜΑ ΜΕ ΤΟΝ ΔΙΑΓΕΓΡΑΜΜΕΝΟ ΤΡΟΧΗΛΑΤΟ ΚΑΔΟ ΑΠΟΡΡΙΜΑΤΩΝ ΣΤΗΝ ΠΙΣΩ ΟΨΗ ΤΟΥ ΜΗΧΑΝΗΜΑΤΟΣ

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ΠΑΡΑΚΑΛΟΥΜΕ ΝΑ ΕΠΙΚΟΙΝΩΝΗΣΕΤΕ ΜΕ ΤΗΝ ΤΟΠΙΚΉ ΥΠΗΡΕΣΙΑ ΑΝΑΚΎΚΛΩΣΗΣ Η ΜΕ ΤΟ ΚΑΤΑΣΤΗΜΑ ΑΓΟΡΑΣ ΓΙΑ ΠΕΡΙΣΣΟΤΕΡΕΣ ΛΕΠΤΟΜΕΡΕΙΕΣ.

INSTALLATION



Introduction

Congratulations on the purchase of the new M8s 700m power amplifier. Great attention has been paid to internal layout, isolating each circuit section to prevent possible interaction.

The unit features two monoblock high current amplifiers with paralleled supplies for the absolute best in transients and dynamics. Generously rated, they are enough to drive even the most demanding loudspeakers with ease. Low distortion and very quiet they will deliver all music types exactly as the artist originally intended. The resultant performance achieved by this unit is among the best in the world. It has excellent signal to noise ratio, low distortion, wide bandwidth and dynamic range, with extraordinary resolution and fine detail.

Cleaning

Before cleaning the unit, switch off power at the mains switch and remove the mains plug from the wall socket. Clean the cabinet and remote control unit using a moist cloth. Using solvents, white spirit or thinners is not advised, as they could damage the surface finish.

Installation

Position the M8s 700m on a stable, horizontal surface wherethere is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

Important note:

In normal operation, the unit dissipates a significant quantity of power at all times, and it is important that it is adequately ventilated. The top and bottom are ventilated to allow the smooth flow of heat through the unit. It is therefore not recommended that the unit is enclosed in a cabinet or placed where the ventilation holes are impeded as this could result in excessive heat build-up.

The M8s 700m must be protected from humidity – if the unit is moved from a cold place to a warm room, leave the unit for an hour or so to allow sufficient time for the moisture to evaporate.

Power Connections

The M8s 700m is supplied with a standard IEC mains cable which plugs into the IEC socket at the back of the unit (see page 7)

Audio Connections

XLR Inputs: Connect any XLR balanced source to balanced analogue input (see page 7 for more information). Use good quality fully connected (signals and ground) balanced XLR cables for all XLR signal connections.

The balanced input and outputs sockets are *fully balanced*, i.e. there is signal on both *hot* and *cold* signal terminals. Please ensure for maximum benefit, that any balanced leads used with this product are fully connected both ends and that the cold lead is separate from ground connection. Consult lead manufacturer if there is any doubt.

RCA Inputs: Connect RCA single-ended source to relevant analogue input (see page 7 for more information). Use good quality fully connected (signal and ground) coaxial phono cables for all RCA signal connections.

SPEAKER OUTPUTS: Connect loudspeaker(s) to the terminals on the back panel marked as **SPEAKER OUTPUTS**.

LOOP OUT: loop outputs (XLR and RCA) allow the input signals to be passed on to a second amplifier, or other component. This is useful for example, for bi-amping.

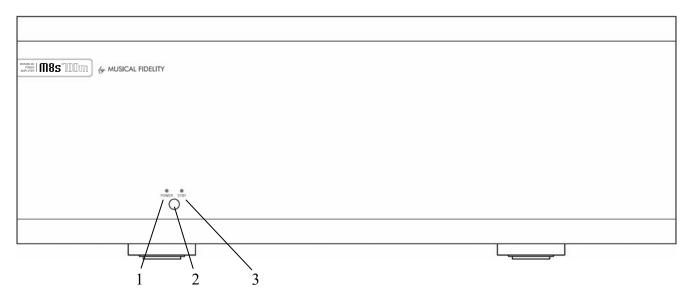
Cables note: Musical Fidelity currently do not make any interconnecting cables, nor do we endorse any particular third-party manufacturer's cables. If advice is required, please refer to the Musical Fidelity dealer who can demonstrate suitable quality cable(s) for any particular setup.

Trigger connections

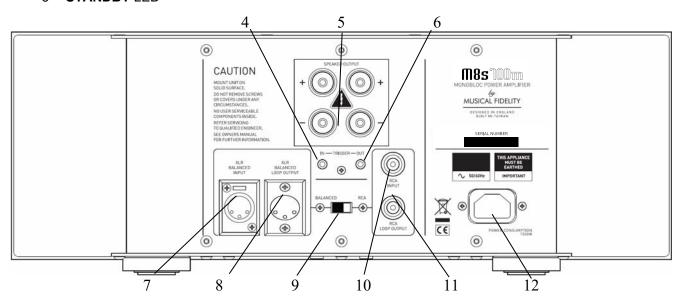
Trigger input: Connect trigger output of controlling device to input socket. Use good quality 3.5mm jack cables (fully connected signal and ground) Unit accepts ±4 to ±15V DC trigger inputs. The M8s 700m PWR can then be switched on or off by remote device(s) connected to its trigger input.

Trigger output: Connect trigger input of controlling device to output socket. Use good quality 3.5mm jack cables (fully connected signal and ground). The M8s 700m PWR then becomes the main controlling device and its power button will automatically switch on/off all devices thus connected to the trigger output.

FACILITIES & CONNECTIONS



- 1 POWER LED
- 2 **ON/OFF** Button
- 3 **STANDBY** LED



- 4 TRIGGER input jack socket
- 5 LOUDSPEAKER OUTPUTS 4mm banana
- 6 TRIGGER output jack socket
- 7 BALANCED XLR (female) input
- 8 BALANCED XLR (male) loop output
- 9 BALANCED/RCA Selector
- 10 RCA input socket
- 11 **RCA** loop output socket
- 12 IEC MAINS INPUT

XLR Balanced input and output lead connections:



(for reference, no XLR signal leads supplied)

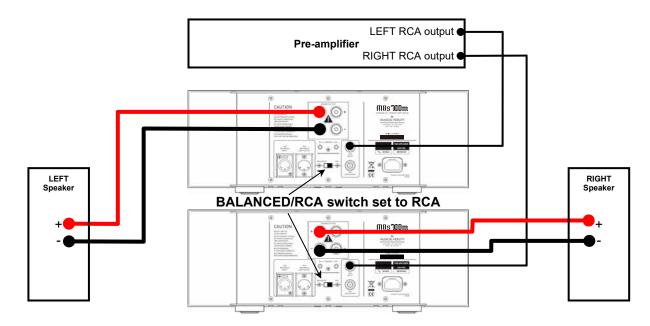
Pin functions:

- 1 Ground (cable shield)
- 2 Signal + (normal polarity or "hot")
- 3 Signal (inverted polarity or "cold")



SINGLE-ENDED (RCA) INPUT

To use the RCA INPUT, connect RCA source outputs to the INPUT RCA sockets. Make sure the BALANCED/RCA switch is set for RCA.



RCA leads connection diagram.
(Trigger and mains leads omitted for clarity).

Note: The two RED speaker terminals are internally connected together. Similarly, the two BLACK speaker terminals are also internally connected together.

The diagram above shows the speakers connected to the LEFT hand output posts. It is also perfectly acceptable to use the RIGHT hand output posts as they are exactly the same connection internally.

IMPORTANT: BALANCED/RCA switch

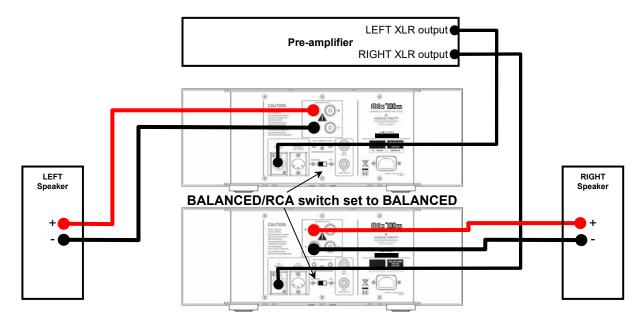
The **BALANCED/RCA** switch (see page 7) is included to minimise noise when using the unit in RCA mode. In most cases it will operate in **BALANCED** position on RCA inputs with no appreciable audible increase in noise. There is no harm in operating the unit in this way.

However it is important, that if using the XLR (**BALANCED**) input, the switch *must* be set for **BALANCED**. If the switch is not set for **BALANCED** on an XLR input, a 6dB reduction in loudness will occur and the benefits of **BALANCED** operation will be lost.



BALANCED (XLR) INPUT

To use the XLR INPUT, connect XLR source outputs to the INPUT XLR sockets (see page 7). Make sure the BALANCED/RCA switch is set for BALANCED.



XLR signal leads connection diagram. (Trigger and mains leads omitted for clarity).

Note: The two RED speaker terminals are internally connected together. Similarly, the two BLACK speaker terminals are also internally connected together.

The diagram above shows the speakers connected to the left-hand output posts. It is also perfectly acceptable to use the right-hand output posts as *they are exactly the same connection internally*.



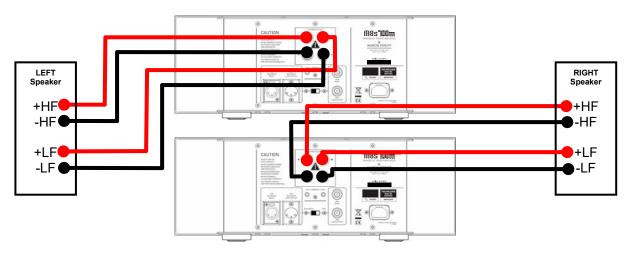
Speaker bi-wiring

It is intention of the above feature to "bi-wire" the outputs with *suitable* speakers.

Such speakers must have at least *four* terminals; two for the treble, high frequency (or HF) driver and two more for the bass, low frequency (or LF) driver.

Any "shorting links" between treble and bass input terminals (on the speakers) *must* be removed for maximum benefit. These links normally are visible under the *speaker's* terminals as gold plates/bars connecting the terminals up in pairs.

Please consult speaker manuals/user support for more details.



<u>Bi-wiring speaker leads connection diagram.</u> (Preamp, trigger and mains leads omitted for clarity).

Starting

Once all connections are made, switch on the unit, using the **POWER** button front of the unit. The **MUTE** LED will light. Speaker outputs are muted for about 6 seconds, so no sound will be heard from the speakers. Once the 6 seconds is up the **MUTE** LED goes out, indicating unit is settled, and ready for use.



Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power when POWER button is pressed.	Mains power plug is not fully inserted into rear socket.	Plug in securely.
No sound	Mute function is still active. Wrong connections between input sources and the unit Speakers not connected, or incorrectly wired	Wait for the MUTE LED to go out. Check audio input lead connections. Check speaker cables.
Sound cut	Loose connection Output overload or short circuit	Check speaker and input connections. Switch unit off. Check speaker connections for shorting strands or wires. When all has been double-checked reduce volume and switch unit back on. N.B. Take great care when bi-wiring or biamping that speaker bass and treble linking straps are removed; see speaker manual for more information.
Sound is not precise, lacking in bass and stereo image.	Speakers are connected out of phase, i.e., connections to one speaker (+ and –) are reversed.	Ensure speakers are connected with same polarity at amplifier and speaker ends.
Hum.	Audio connector plug not fully pushed in Cable Fault Unsuitable cable (e.g. cable grounds not connected)	Insert plug securely. Check cable is connected at both ends. N.B. Some esoteric cables have internal wiring intentionally disconnected/modified. For best results on all inputs analogue AND digital, please use good quality screened coax; signal <i>and</i> screens both separately connected at both ends.
No audio output, or too low level output.	Incorrect or missing connections	Check connections and make sure they are secure.

If none of these actions affect a cure, please contact the dealer, or an authorised Musical Fidelity service agent.

Remember; never open the case of the M8s700m, as this will invalidate the guarantee.



SPECIFICATIONS

Output

Power 700 Watts per channel into 8 Ohms (28 dBW) 78 Volts RMS, 20Hz to 20 kHz; onset of clipping Voltage

(220 Volts peak-to-peak)

350 Amps Current peak-to-peak Damping factor 210 Output devices 10 pairs

Line input

THD+N <0.005% typical, 20 Hz to 20 kHz

Signal / noise ratio >120 dB 'A'-weighted

Input impedance 50k Ohms

Frequency response +0, -1dB, 10Hz to 80 kHz

Connections

Line level inputs 1 line level XLR (balanced) connector

1 line level RCA connector

1 line level XLR (balanced) connector Line level outputs

1 line level RCA connector

Speaker outputs 2 pairs 4mm banana plug/binding posts Trigger input 3.5mm ($\frac{1}{8}$ ") mono jack ±4.5 to ±15V DC

Trigger output 3.5mm (1/8") mono jack +12V DC

Power requirement

Mains voltages 115/230VAC 50/60Hz (factory pre-set)

> 100VAC 50/60Hz (alternative)

Consumption 0.25 Watts (Orange LED lit) standby

> 140 Watts (Blue LED lit, no signal output) on, idle 1500 Watts maximum (Blue LED lit, full power output)

Weight

Unit only, unboxed 30 kg (66 lbs) In shipping carton 35.5 kg (781/8 lbs)

Dimensions

Width 440 mm $(17\frac{1}{3})$ Height (including feet) 160 mm $(6\frac{1}{3})$ Depth (front to back) including terminals 460 mm $(18\frac{1}{8})$

Standard accessories

IEC type mains lead (10-Amp type)

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





MANUAL HISTORY

RELEASE	DATE	CHANGES
Issue 1	21st August 2018	1 st release.