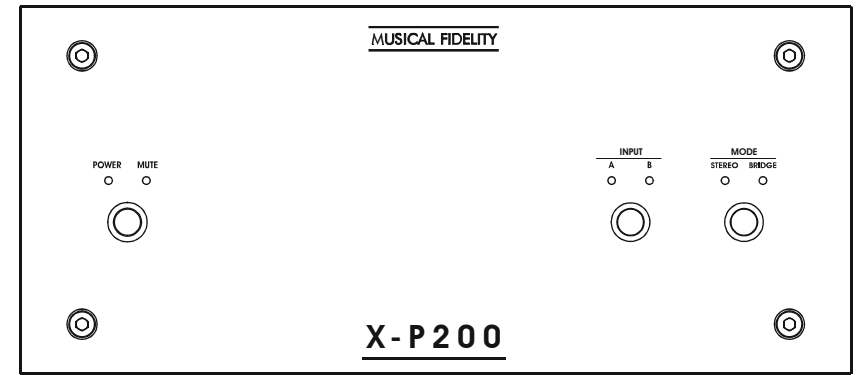


X-P200

POWER AMPLIFIER



INSTRUCTIONS FOR USE

*Thank you for purchasing the Musical Fidelity
X-P200 power amplifier.*

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

*Aesthetically, the X-P200 power amplifier is a perfect match for the
X-Pre V³ pre-amplifier and X-RAY V3 CD player.
Together, they form one of the finest hi-fi systems available.*

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

*If you have any questions about your audio system,
please consult your dealer who is there to help and advise.*

MUSICAL FIDELITY

SAFETY INFORMATION

IMPORTANT! (U.K. only)


This unit is supplied in the U.K. with a mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off this 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 yellow.....Earth
Blue.....Neutral
Brown.....Live

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 your 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.

Your new X-P200 is designed and built to provide trouble-free performance, but as with all electronic devices, it is necessary to observe a few precautions :

- Do not use the X-P200 near water. The unit must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, must be placed on the unit.
- Keep the X-P200 away from heat such as radiators. No naked flame sources, such as lighted candles, should be placed on the unit.
- Place all connecting cables where they are not likely to be walked on or trapped by items placed on them.

X-P200 SPECIFICATIONS

Output :

Power, stereo mode :	125 Watts, one channel loaded into 8 Ohms (21dBW)
Power, bridge mode :	260 Watts into 8 Ohms (24dBW)
Voltage RMS, stereo mode :	31.6 Volts 20Hz to 20kHz, one channel loaded
Voltage peak, stereo mode :	44.5 Volts, one channel loaded
Current peak-to-peak (unlimited) :	75 Amps
Damping factor, stereo mode :	200
Output devices per channel :	4 (stereo), 8 (bridge)

Line inputs :

Total harmonic distortion + noise :	< 0.015 20Hz to 20kHz
Signal / noise ratio :	> 107dB 'A'-weighted
Input sensitivity for 125W, 8 Ohms :	1 Volt
Input impedance :	27k Ohms in stereo mode, 220k Ohms bridge mode
Channel separation :	> 70dB typical
Frequency response :	20Hz to 20kHz, + 0, - 0.1dB

Input facilities :

"A"	1 pair RCA connectors, selectable from front panel
"B"	1 pair RCA connectors, selectable from front panel

Output facilities :

2 amplifier channels or 1 channel in bridge mode (switchable from front panel) via 1 pair per channel binding posts.
1 pair RCA loop output sockets

Power requirement :

100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set), 600 Watts maximum (bridge mode) into 8 Ohms, 30 Watts idle.
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Dimensions :

218mm, 8.6 inches wide
98mm, 3.8 inches high (including feet)
339mm, 13.4 inches deep (including knob and rear terminals)

Weight :

6.1 kg, 13.4 lbs unit only, unboxed
7.15 kg, 15.8 lbs in shipping carton

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.

INTRODUCTION

Your X-P200 can be connected either as a conventional stereo amplifier, or alternatively in “bridge” mode as a mono amplifier with higher output power - see page 4 and 5 for connection details.

It is intended for use with a pre-amplifier or similar audio level source with a volume control. We highly recommend the matching X-Pre preamplifier also available from Musical Fidelity.

Two stereo pairs of RCA audio input sockets marked “A” and “B” on the rear panel allow a choice between either of these input sources. Simultaneous mixed A and B operation is not possible.

Whichever input is chosen, a fixed “line level” audio output from the selected source is available from the adjacent **OUTPUT** RCA sockets for onward connection to another amplifier. This is to allow for “bi-amplification” (see below).

BI-AMPLIFICATION

The X-P200’s **OUTPUT** sockets allow “bi-amplification” of a speaker system using suitable external amplifiers and crossover networks. This enables the speaker drive units to be powered separately, giving noticeable improvement in clarity, imaging and bass weight.

In this arrangement, typically one X-P200 is used to drive the “tweeter” (high frequencies), and another to drive the “woofer” (low frequencies) of each loudspeaker enclosure. Thus, two X-P200s would be needed for a stereo pair, or four in bridge mode.

(continued) . . .

If in doubt about bi-amplification, please contact your dealer for advice.

BEFORE SWITCHING ON . . .

Plug the accessory IEC mains lead into the rear panel socket, then the other end into a wall outlet.

Turn the volume control on your pre-amplifier to minimum.

OPERATION

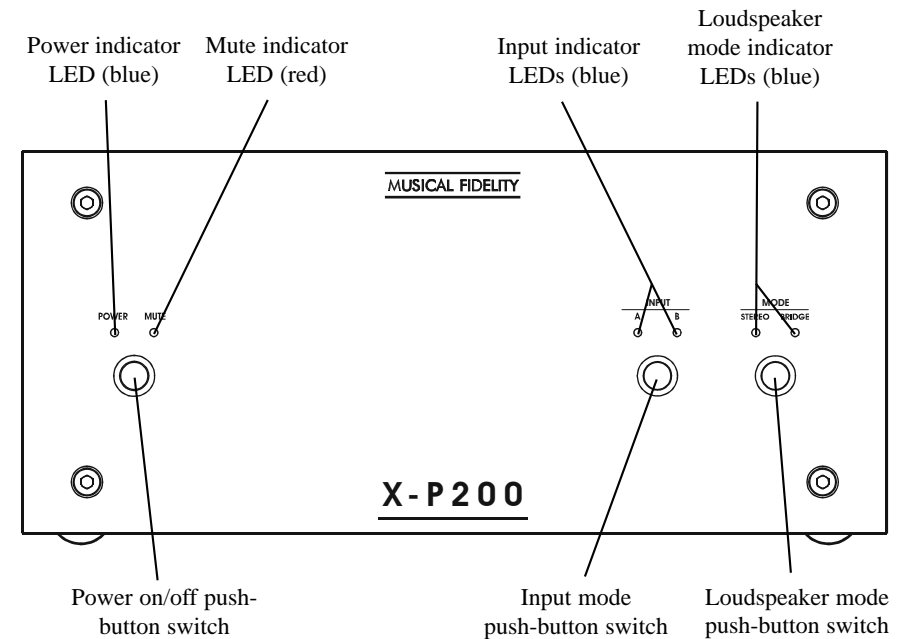
Press the **POWER** button on the X-P200 amplifier - the blue power LED on the front panel will light indicating that the unit is ready for use. However, for about six seconds no sound will be heard from your speakers, and the red mute LED will be lit, confirming initial mute action.

Press the **INPUT** selector button on the front panel to switch between A and B input as required. A corresponding blue LED above the button will light to confirm your selection.

Now adjust the volume control on your pre-amplifier to obtain the preferred sound level.

If “bridge” loudspeaker operation is required, press the **MODE** button on the front panel to switch over to this function. A corresponding blue LED above the button will light to indicate which system is in use. Press the **MODE** button again to revert to normal stereo.

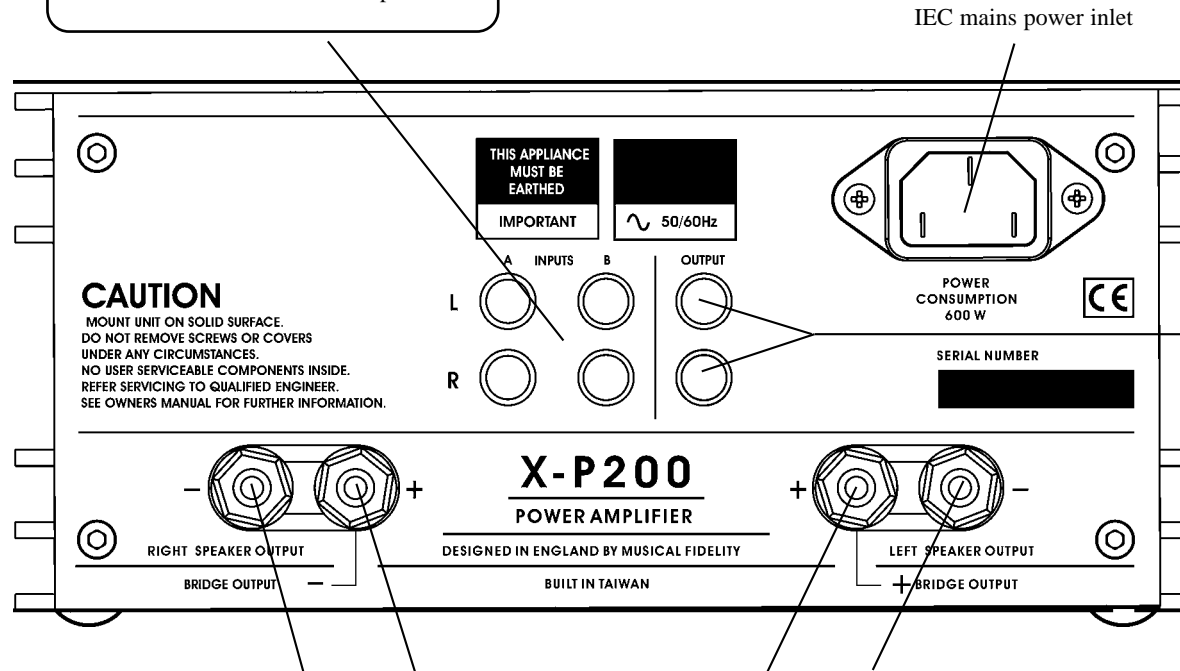
Please note that if **STEREO** mode is accidentally selected with the speakers wired for “bridge” operation, sound will be distorted, and lack bass. Similarly, if switched to **BRIDGE** mode with speakers wired for stereo operation, sound quality will



INPUT CONNECTIONS

Using good quality co-axial audio leads, connect the left and right outputs from your pre-amplifier or other controlled source to either **A** or **B** RCA inputs.

All input, output and power connections should be made with the mains power switched OFF.



OUTPUT

These RCA sockets have “line level” audio “loop” output routed from either **A** or **B** input by the selector switch on the front panel.

They are for onward connection to another amplifier if required.

(See page 6 under *BI-AMPLIFICATION*).

LOUDSPEAKER CONNECTIONS

The X-P200 is a stereo amplifier, but can instead be used in “bridge” mode to obtain a single (mono) output with higher power.

However, do not attempt both speaker connection methods at the same time.

Conventional stereo use :

Connect each of your loudspeakers to the pair of terminals on the back panel marked **LEFT** and **RIGHT SPEAKER OUTPUT**. The wiring must be “in phase”, namely, the red (+) and **black** (-) terminals must be connected to the left and right speakers the same way round.

Bridge mode :

Connect a single (mono) loudspeaker between **LEFT** and **RIGHT red (+) terminals only**

Note that in this mode, the right-hand channel red terminal becomes negative (-) for phasing purposes. This is important for maintaining correct phase with any other amplifier being used in your audio system.

Important :

- * **The load impedance must not be less than 4 ohms.**
- * **Do not make any earth connection to the speaker terminals.**