

# **F16 STEREO AMPLIFIER**

## ***INSTRUCTIONS FOR USE***

*Thank you for purchasing the Musical Fidelity F16 Amplifier. Used properly and carefully, it should give you many years of outstanding musical reproduction.*

*The F16 is the result of our continuous research and development program and is designed for ultra-high definition performance.*

*Dust regularly with a soft duster or soft brush but do not use cleaning or polishing agents - they may harm the surface finish.*

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



## IMPORTANT!


This unit is supplied in the UK with a mains lead fitted with a moulded 13 amp plug. If, for any reason, you need to cut off this plug, please observe the following safety precautions. Please dispose of the cut-off plug safely. It ***must not*** be plugged into a mains power supply.

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 10 amp fuse must be used.

### **WARNING - Radio Frequency Interference (RFI)**

This hi-fi product has been tested to ensure that its operation will not be adversely affected by normal background levels of RFI. It is possible that if this product is subjected to abnormally high levels of RFI the unit may be susceptible and not perform as expected. In the unlikely event of this happening on a regular basis, please contact Musical Fidelity's service department.

The unit has also been tested to ensure that it does not radiate excessive levels of RFI that could affect other pieces of electronic or electrical equipment.

The electronics in modern hi-fi equipment is complex and hence may be damaged by lightning. It is possible that during electrical storms the operation of some equipment may be adversely affected. For complete protection of your hi-fi system during such storms, mains plugs should be removed from sockets and aerial leads disconnected.

Always ensure that when disconnecting and reconnecting your hi-fi equipment the mains supply is switched off.

## INSTALLATION PRECAUTIONS

Your new F16 is designed and built to provide trouble-free performance but it is necessary to observe a few precautions. Please ensure that you have complied with them before you connect any AC power to your amplifier. Retain this guide for future reference.

- Heed all warnings on the back of the unit.**
- Place your F16 where there is adequate ventilation.**
- Only connect the unit to a power supply of the type marked on the back of the unit.**
- Position the power supply lead and signal interconnect leads where they are not likely to be walked on or tripped by items placed on them.**
- Do not use near water.**
- Do not place the amplifier near direct heat sources such as radiators or other equipment that produces heat.**
- Do not remove any covers or try to gain access to the inside. The warranty will be invalid if the unit has been tampered with. There are no user adjustments within. Refer all service work to an authorised Musical Fidelity agent.**
- There are 3 fuses fitted to the F16. In the unlikely event that one blows, take your F16 to your audio dealer. Do NOT try to replace the fuse yourself or you will invalidate the warranty.**

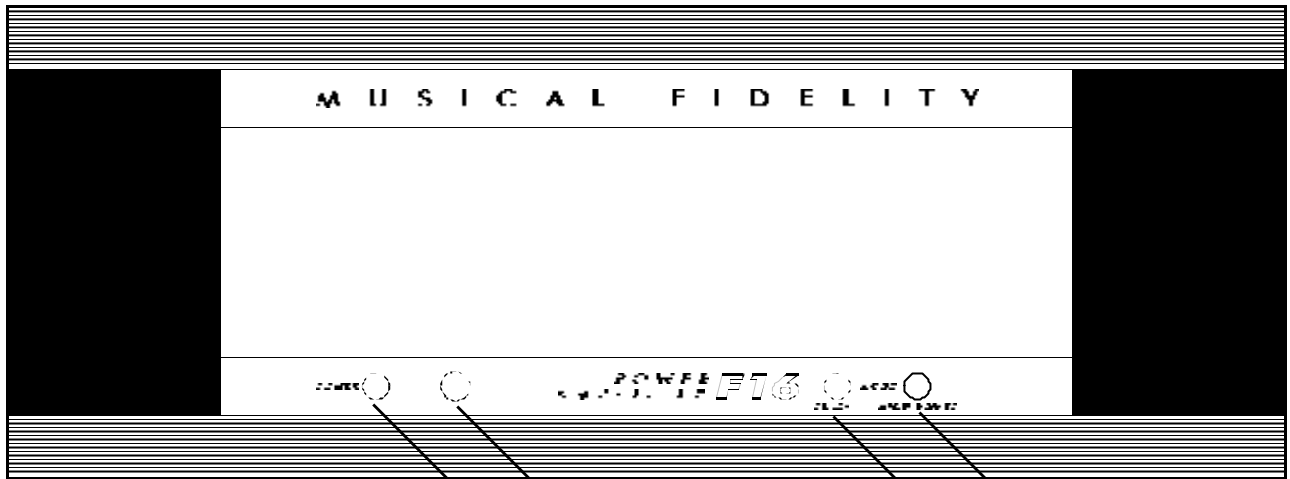
## BEFORE YOU SWITCH ON

You should make all connections to the F16 before switching on.

Follow this routine before you listen for the first time, and each time you change any connections.

- 1 Check all the inputs and outputs to the F16.
- 2 Then check again.
- 3 Turn the volume control to nil.
- 4 Now you can switch on the power and carefully advance the volume to the level you want and enjoy the music.

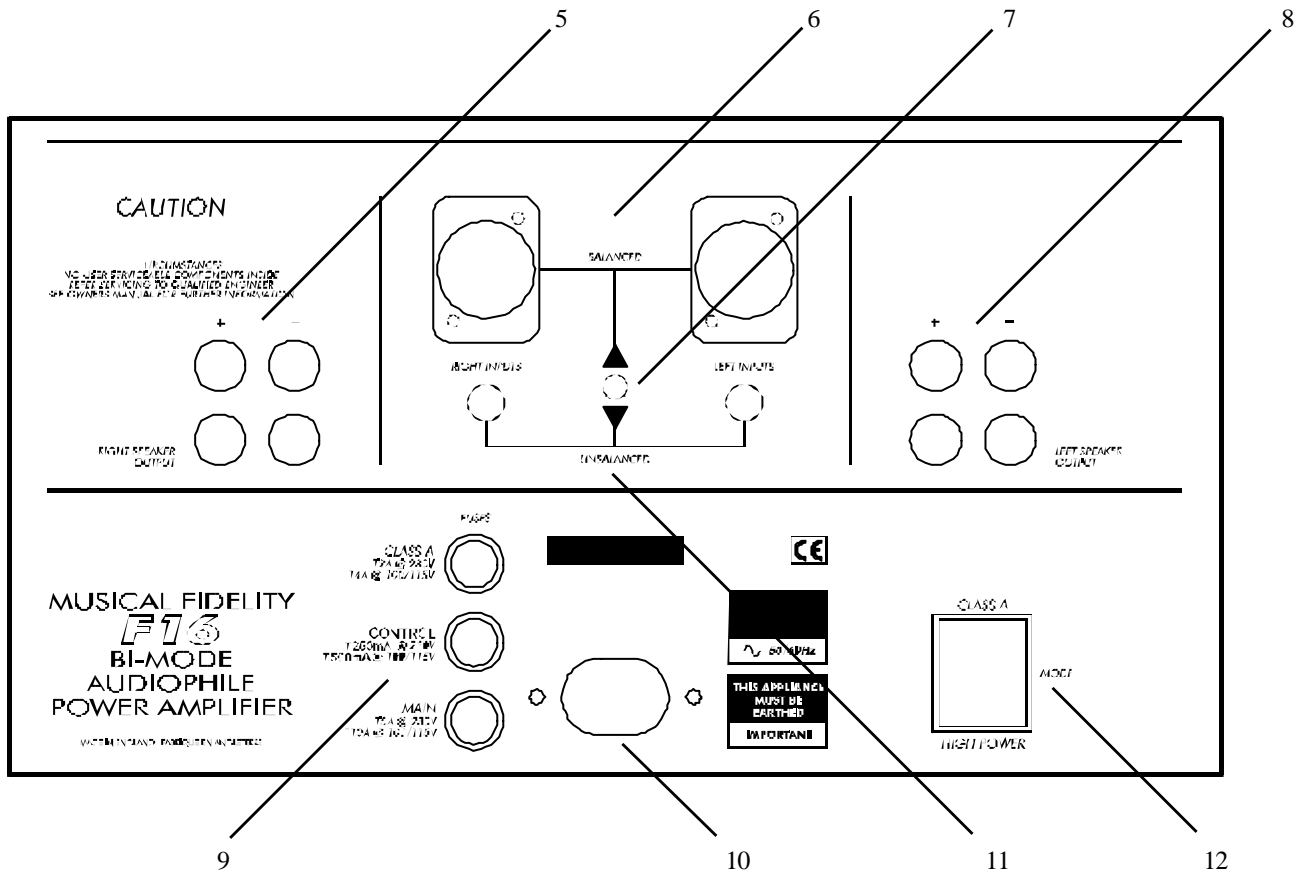
# CONNECTIONS AND FACILITIES



**FRONT PANEL**

**BACK PANEL**

- |          |                                  |           |                                      |
|----------|----------------------------------|-----------|--------------------------------------|
| <b>1</b> | <b>Power Indicator</b>           | <b>5</b>  | <b>Right Speaker Outputs</b>         |
| <b>2</b> | <b>Power On/Off switch</b>       | <b>6</b>  | <b>Balanced (XLR) Inputs</b>         |
| <b>3</b> | <b>Class A Mode Indicator</b>    | <b>7</b>  | <b>Input Type Selector Switch</b>    |
| <b>4</b> | <b>High Power Mode Indicator</b> | <b>8</b>  | <b>Left Speaker Outputs</b>          |
|          |                                  | <b>9</b>  | <b>Fuses</b>                         |
|          |                                  | <b>10</b> | <b>AC Mains Input</b>                |
|          |                                  | <b>11</b> | <b>Unbalanced (RCA/phono) Inputs</b> |
|          |                                  | <b>12</b> | <b>Mode Switch</b>                   |



## LOUDSPEAKERS.

### WARNING - Speaker Terminals

In order to comply with BSEN 60-065 safety regulations, the 4mm banana plug holes have been fitted with plastic blanking pieces. Removal of these will invalidate any safety approval of this unit.

To get the best from your F16 for a realistic soundstage and full dynamic range, use it with loudspeakers of a reasonable efficiency. An average rating for a loudspeaker these days is about 87dB. This should mean that for an input of 1 watt, measured at 1 metre distance, the sound output will be 87dB. This is actually a reasonably loud sound, and much daily listening will not use much more power than this. Note that changing to a pair of speakers with a rating of 90dB is equivalent to doubling the power of your amplifier. To give some comparisons, a full concert orchestra will touch 105 to 110dB for short periods during a crescendo. Concorde at take off measures over 130dB, which is the threshold of pain, and positively dangerous.

## MODE OF OPERATION

The F16 has two modes of operation "Class A" and "High Power" each with its own sonic fingerprint. We think you'll find that the Class A mode is smooth and sweet with a valve-like quality whereas the High Power mode has all the dynamics and pace that the massive power reserve available allows. We hope that this unique switching feature allows you to set your F16 to the optimum setting for your own system and taste. Switching between the two modes is done by the rocker switch situated on the back panel.

**Important - switch the F16 off on the front panel before switching between Class A and High Power modes.**

## FOR THE BEST RESULTS:

We strongly recommend that you use the F25 pre-amplifier manufactured by Musical Fidelity.

This is designed for perfect electrical and sonic compatibility with the F16. When paired, they produce truly extraordinary results which afford an unprecedented level of musical communication, articulation and dynamics.

One of the design aims of the F16 was that it should be relatively insensitive to the effects of interconnect cables. Although it is important that you use low impedance, low capacitance cables, the exact make and model are not too important. Similarly, a lot of fuss is made about different types of plugs and sockets; once again, the F16 is very insensitive to these differences.

A large amount of time, effort, money and energy has been expended to ensure that your F16 will produce optimal results with almost any cables or connectors. We hope that this makes your installation and listening easier and more enjoyable.

## CONNECTIONS

All connections should be made with the power OFF.

The F16 has inputs for unbalanced RCA type phono plugs and balanced XLR plugs. Each input is clearly labelled on the back panel. .

The XLR (balanced) connection is electrically superior to the RCA type and is particularly suitable for long cable runs as it is less susceptible to noise.

The mains connector is a standard IEC type. Do not try to use any other type of mains lead.

Basic troubleshooting of an amplifier is similar to troubleshooting of any other electrical or electronic equipment. Always check the most obvious possible causes first. To give you a few ideas of what to look for, check the following:

<i>Problem</i>	<i>Probable Cause</i>	<i>Remedy</i>
<b>No power when POWER is pressed</b>	Mains plug not inserted correctly	<i>Plug in securely</i>
<b>No sound</b>	Volume control is set to minimum No connection between pre and power amps Speakers are not connected, or are connected incorrectly.	<i>Turn up the volume</i> <i>Make appropriate connection</i> <i>Check speaker cables</i>
<b>Sound is not precise, lacking in bass and stereo image</b>	Speakers are connected out of phase	<i>Make sure that both speakers are connected correctly</i>

If none of these actions effect a cure, please contact your dealer, or an authorised Musical Fidelity service agent. Remember, never open the case of the F16 yourself, as this will invalidate the guarantee.

## F16 BI-MODE AMPLIFIER

Output power	Class A Mode - 50 watts rms High Power Mode - 200 watts rms (into 8 ohms)
THD	< 0.05%
Signal to Noise ratio	> 92dB
Frequency response	20Hz - 20kHz +/- 1dB
Input sensitivity	775mv (0dbV)
Power consumption	Class A Mode - 300 watts High Power Mode - 700 watts
Power requirement	100/115/230 Volts, AC 50/60Hz (Factory Preset for country)
Dimensions	482 x 188 x 380mm (W x H x D) Height includes feet
Weight	29 Kgs Unpacked 32 Kgs Packed



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