

# **A1001 CLASS A SUPER INTEGRATED AMPLIFIER**

## ***INSTRUCTIONS FOR USE***

*Thank you for purchasing the Musical Fidelity A1001 Class A Super Integrated Amplifier. Used properly and carefully, it should give you many years of outstanding musical reproduction.*

*The A1001 has been designed for the very highest possible sound quality allied to a natural tonality that brings life and soul to all forms of music. We have invested much time and effort in the design of this unit, we sincerely hope you will be delighted with your purchase.*

*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 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 - Speaker Terminals**

In order to comply with BSEN60-065 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.

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

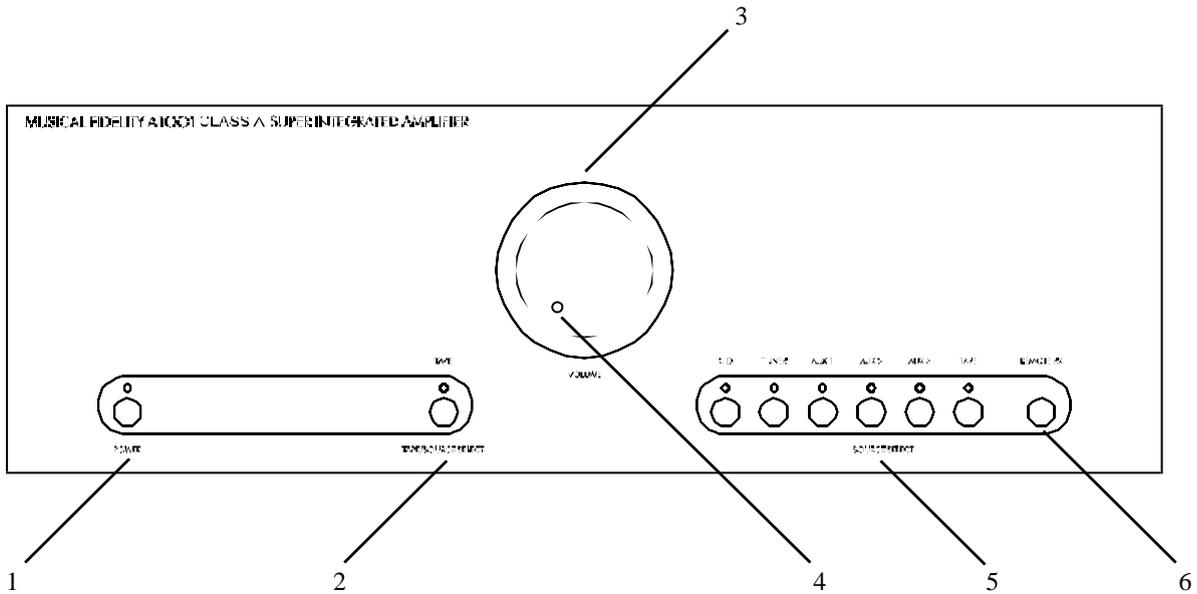
This hi-fi product has been tested to ensure that its operation will not be adversely affected by normal background levels of RFI. It is possible that if this product is subjected to abnormally high levels of RFI the unit may be susceptible and not perform as expected. In the unlikely event of this happening 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 and aerial leads disconnected.

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

# CONNECTIONS AND FACILITIES

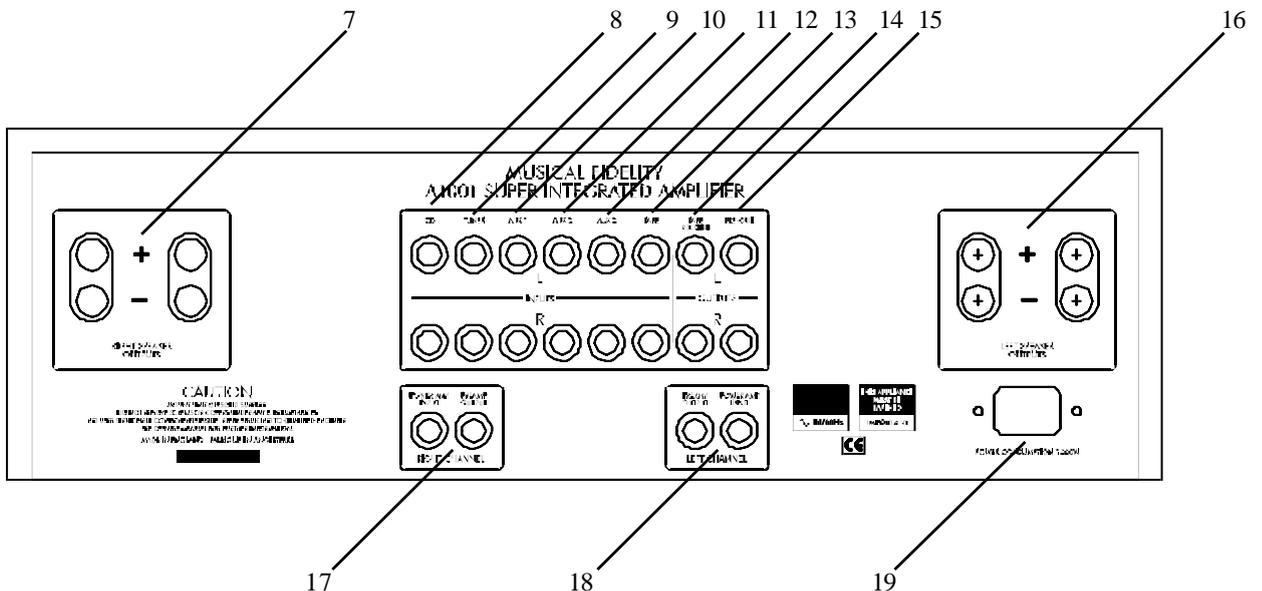


## FRONT PANEL

## BACK PANEL

- 1 Power (on / off) button
- 2 Tape / source select (tape monitor) button
- 3 Volume control
- 4 Volume position & mute LED
- 5 Source selector buttons
- 6 Remote receiver lens

- 7 Right speaker outputs
- 8 CD input
- 9 Tuner input
- 10 Aux 1 input
- 11 Aux 2 input
- 12 Aux 3 input
- 13 Tape input
- 14 Tape record output
- 15 Preamp output
- 16 Left speaker outputs
- 17 Right preamp & power amp link
- 18 Left preamp & power amp link
- 19 IEC type mains inlet



## INSTALLATION PRECAUTIONS

Your new A1001 is designed and built to provide trouble-free performance but as with all electronic devices it is necessary to observe a few precautions. Please ensure that you have complied with these 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 A1001 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 trapped 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 fuses in the A1001. In the unlikely event that one blows, take your A1001 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 A1001 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 A1001.
- 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.

## THE A1001

The A1001 CLASS A SUPER INTEGRATED AMPLIFIER was conceived as a very powerful integrated amplifier of the highest quality, internally structured as fully separate preamp and monobloc power amp stages. The separation of the pre and power-amp stages allow them to be fully optimised for their specific functions. In addition this ensures total freedom from intermodulation and other distortions and noise that can occur when these circuits are combined. The preamp and each power amp stage are built on separate PCBs with separate power supplies and a separate magnetically shielded mains transformer each.

By packaging the unit as an integrated amplifier we were then able to provide perfect interconnection between these stages, particularly as regards the crucial earth return currents, and remove any need for potentially sound degrading interconnects whilst also giving a more compact amplifier solution.

All signal circuitry in the A1001 is fully discrete, no I.C.s are used, all circuitry has been designed 'from the ground up' specifically for the A1001.

## LOUDSPEAKERS

To get the best from your A1001 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 88dB. This should mean that for an input of 1 watt, measured at 1 metre distance, the sound output will be 88dB. 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 91dB is equivalent to

doubling the power of your amplifier.

## SWITCH ON

When you switch on the A1001 the unit will initially be in a muted state for a few seconds to allow the circuits to stabilise and to prevent any switch-on thumps etc. The volume control position indicator LED will then light when the unit becomes active. Note - if you mute the A1001 with the remote control before you switch it off you will then need to un-mute the unit with the remote after switching on.

## CONNECTIONS

**All connections should be made with the power OFF.**

The A1001 has 6 line level inputs - CD, Tuner, Aux 1,2 and 3 and Tape. All inputs are electrically identical and are suitable for use with any source component with an output voltage in the hundreds of millivolts (mV). This includes CD players, tuners, tape machines and the audio outputs of video recorders, televisions, DVD and LaserDisc players etc. Enthusiasts who wish to use a turntable should purchase an external phono stage such as the Musical Fidelity X-LP. We recommend that you use good quality screened interconnects such as the Musical Fidelity X-LINX for all connections. Do not use un-screened interconnect cables as they have inferior performance and in some circumstances can actually damage the unit.

## TAPE RECORDING

The A1001 has a single tape circuit with facilities for off-tape monitoring with 3-head cassette decks. Connection of your tape machine to the A1001 should be as follows. The tape machine's Tape/Line outputs go to the A1001's 'Tape' input sockets.

*(continued overleaf)*

The tape machine's Tape/Line inputs go to the A1001's 'Tape Record' output.

To record, simply select the required source with the source selector buttons on the front panel. The selected source will now be sent to the 'Tape Record' outputs for recording by the attached tape machine.

You will also be able to hear the selected source through the loudspeakers. Note - you can adjust the listening level with the volume control without affecting the recording level.

## **TAPE RECORDING - OFF TAPE MONITORING**

In conjunction with a 3-head cassette deck, off-tape monitoring allows the user to compare the recorded to original sound whilst a recording is made. First select the required source in the normal way and start recording, now the Tape/Source select button on the left-hand side of the front panel can be used to switch between Source (the source signal) and Tape (the recorded signal) allowing direct comparison. Note that the LED indicator lights when 'Tape' (the recorded signal) is selected. On some 3-head cassette decks there is an additional 'tape/source' switch on the cassette machine itself which will need to be in the 'tape' position for the above to work - if you are in any doubt consult your tape machine's manual.

## **PREAMP / POWER AMP LINKS**

The A1001's preamp and power amp stages are linked by means of gold plated bars fitted between the 'Preamp Output' and 'Power amp Input' sockets on the rear panel. By removing these links the preamp and power amp stages may be used separately. Alternatively a signal processor such as a surround-sound unit can then be connected between the preamp and power amp stages.

## **PREAMP OUTPUT**

The A1001 has an additional active preamp output situated on the back panel. This provides extra flexibility for use in multi-room or surround-sound systems etc.

## **REMOTE CONTROL & MUTE**

The A1001 is supplied with a remote control handset that can be used to select any input and increase or decrease the volume by means of the motorised volume control. Additionally the remote handset has a 'Mute' button which when activated cuts off all outputs from the unit. In the 'mute' active state the red LED position indicator in the volume knob will turn off.

## **WARNING - heat**

Because the A1001 is strongly biased into Class A operation it gives off heat through the slots in the lid.

**Never put anything on top of your A1001.**

Always ensure that the unit has adequate ventilation.

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:

<b><i>Problem</i></b>	<b><i>Probable Cause</i></b>	<b><i>Remedy</i></b>
<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	<i>Turn up the volume</i>
	Tape/Source selector (tape monitor) button is depressed	<i>Press Tape monitor button</i>
	Preamp to power amp links removed or surround processor (or other device in pre-power amp loop) switched off or muted	<i>Replace links or switch on / un-mute as appropriate</i>
	Unit muted (volume control position LED will be off)	<i>Un-mute with remote control (position LED should be on)</i>
	Speakers are not connected, or are connected incorrectly	<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 A1001 yourself, as this will invalidate the guarantee.

## A1001 CLASS A SUPER INTEGRATED AMPLIFIER

Power output	200W RMS per channel into $8\Omega$ 400W RMS per channel into $4\Omega$
Frequency response	10 Hz - 30kHz $\pm$ 1dB
THD	< 0.06% 20Hz - 20kHz to full rated power < 0.003% @ 1kHz to full rated power
S/N ratio	> -91dB unweighted > -96dB 'A' weighted
Inputs	6 x Line level
Input sensitivity	300mV
Power consumption	1000W (maximum)
Power requirement	100/115/230V AC 50/60Hz (Factory preset for country)
Dimensions	475 x 164 x 540mm (W x H x D) Height includes feet, depth includes terminals and volume knob
Weight	30 kgs
Standard accessories	1 x IEC type mains lead 1 x A1001 remote control handset 2 x batteries (AA, LR6, AM6)



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