Thank you for purchasing the Musical Fidelity A3.5 Integrated amplifier.

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

Aesthetically, the A3.5 Integrated amplifier is a perfect match for the A3.5 CD player.

Together they form one of the finest hi-fi systems available.

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 your audio system, please consult your dealer who is there to help and advise.
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 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 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:**

The A3.5 is a powerful amplifier and must necessarily supply high voltages through the loudspeaker terminals. Therefore, to avoid any possibility of an electric shock **DO NOT TOUCH THE SPEAKER TERMINALS** when the unit is being used. To comply with BSEN60065 safety regulations, the 4mm “banana” plug holes have been fitted with plastic blanking pieces. Removal of these will invalidate any electrical safety approval of this product.

**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 and USER INFORMATION

Your new A3.5 Integrated is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

Heed all warnings shown on the back of the product.

Only connect the A3.5 Integrated to a mains outlet having the same voltage as marked at the back of the unit.

Always ensure that when disconnecting and reconnecting your 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 amplifier, 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 your dealer, who should then check the unit before further use. Entry of liquid into the amplifier 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 internal adjustments or fuses you can replace yourself. 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 your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the A3.5 Integrated amplifier please quote the serial number located on the rear panel of the unit.

**RADIO FREQUENCY INTERFERENCE (R.F.I)**

This product has been tested to ensure that its operation is not adversely affected by normal background levels of 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.
CONNECTIONS and FACILITIES

FRONT PANEL

1. Power on indicator LED
2. POWER mains on/off switch
3. Mute indicator LED
4. Tape MONITOR button and LED
5. CD input select button and LED
6. TUNER input select button and LED
7. Volume control
8. AUXiliary 1 input select button and LED
9. AUXiliary 2 input select button and LED
10. Infra Red Receiver window for remote control
11. Home Theatre DIRECT input select button and LED – see page 6
12. TAPE input select button and LED

REAR PANEL

13. RIGHT SPEAKER output terminals
14. LEFT SPEAKER output terminals
15. CD input sockets
16. TUNER input sockets
17. AUXiliary 1 input sockets
18. AUXiliary 2 input sockets
19. Home Theatre DIRECT input sockets - page 6
20. TAPE input sockets
21. TAPE Rec ord output sockets - see page 7
22. PRE-OUT put sockets – see page 6

IEC mains power inlet socket
REMOTE CONTROL

The blue buttons on the remote control enable main functions of the amplifier to be operated from a convenient distance. Remaining buttons on this universal handset are for use with other, specific, Musical Fidelity products, and have no effect on the A3.5 Integrated amplifier.

Equivalent buttons on the remote handset have the same functions as those on the front panel of the unit.

As the remote control uses an invisible infra-red light beam, the transmitter must be pointed directly towards the receiver window on the front of the amplifier, without visual obstruction between them.

Pressing the volume-up or -down buttons on the remote handset will turn the motorised volume control in the required direction.

Pressing the MUTE button disables the SPEAKER output and PRE-OUT sockets, but not does not affect TAPE RECORD output. A red MUTE LED on the front panel lights to show that the amplifier is not producing power to the loudspeakers. Pressing the MUTE button again cancels mute function, and the red LED goes out.

If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries - two are required, size LR03 or AAA, manganese alkaline type. Do not dispose of used batteries in a fire.

(Amplifier function buttons only)
CONNECTIONS

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

**INPUT CONNECTIONS**

The A3.5 Integrated amplifier has five stereo pairs of RCA “line level” input sockets controlled by the internal volume setting. They all have the same input sensitivity, and are therefore suitable for use with any source component having an output of at least 300mV. The five sockets on the rear panel are marked CD, TUNER, AUXiliary 1, AUXiliary 2 and TAPE, corresponding with function selector buttons on the front panel.

However, the HT DIRECT sockets are intended for home theatre use. When selected, they are routed inside the A3.5 directly to the power amplifier circuit, which is not controlled by the volume adjustment.

**Do not therefore connect these sockets to a source without its own volume control.**

**TAPE RECORDER CONNECTION**

The A3.5 Integrated has a single tape circuit with facilities for off-tape monitoring with 3-head tape decks (see page 7).

The tape deck's left and right line outputs are routed to the amplifier's TAPE (input) sockets, and the tape deck's line inputs are connected to the amplifier’s TAPE REcord (output) sockets.

**PRE-AMPLIFIER OUTPUT**

The A3.5 Integrated amplifier has its pre-amplifier output available from RCA sockets on the back panel marked PRE-OUT, and is controlled by the volume adjustment.

This is to allow “bi-amplification” using suitable external amplifiers and crossover networks to power the speaker drive components separately, giving noticeable improvement in clarity, imaging and bass weight.

In this arrangement, typically the A3.5’s speaker outputs are used to drive the speaker’s “tweeter” (high audio frequencies), and an external stereo amplifier drives the “woofer” (low frequencies). The A3.5’s PRE OUT RCA sockets would therefore be connected to the input of the external “woofer” amplifier in this example.

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

**SPEAKER OUTPUT CONNECTIONS**

Connect your loudspeakers to the terminals on the back panel marked as LEFT and RIGHT SPEAKER outputs.

**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 the front panel to minimum (anticlockwise).
**OPERATION**

**STARTING . . . .**

Press the **POWER** button on the front panel of the A3.5 amplifier - the blue **POWER** LED above the button will light indicating that the unit is ready for use. However, for about five seconds no sound will be heard from your speakers, and the red **MUTE** LED near the button will not be lit, confirming initial mute action.

Unless using your amplifier for off-tape monitoring (see paragraph opposite ) ensure that the **TAPE MONITOR** button has not been pressed accidentally, as otherwise no sound will be heard through the speakers.

Select the required audio input source by pressing an appropriate function button on the front panel or remote control, and adjust the volume control to obtain the preferred sound level.

**TAPE RECORDING**

To record, simply select the required source with the input selector button on the front panel or remote control. This source will now be routed to the A3.5’s **TAPE REC**ord output for recording by the external tape deck. You will also be able to hear the selected source through the loudspeakers.

Note - adjustment of the volume control has no effect on the recording level.

**OFF TAPE MONITORING**

In conjunction with a 3-head cassette deck, off-tape monitoring allows the user to compare recorded sound with the original whilst a recording is being made (see page 6 for connection details). To do this, first select the required source in the normal way and start recording.

The **TAPE MONITOR** button on the front panel can now be used to switch between the original source sound and the recorded version, allowing direct comparison. The blue LED just above the button is lit when the tape monitor function is operating, confirming that the recorded sound is selected.

On some 3-head tape decks there is an additional ‘tape/source’ switch, which must be in the ‘tape’ position for the above to work.

If in doubt, please refer to your tape deck operating manual.
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:

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power when POWER button is pressed</td>
<td>Mains power plug is not fully inserted into rear socket</td>
<td>Plug in securely</td>
</tr>
<tr>
<td>No sound</td>
<td>Tape monitor function has been selected (see page 7)</td>
<td>Switch off tape monitor</td>
</tr>
<tr>
<td></td>
<td>Mute function is still active (mute LED is still on)</td>
<td>Press the MUTE button on the remote control to cancel</td>
</tr>
<tr>
<td></td>
<td>Wrong connections between input sources and the A3.5</td>
<td>Check audio input lead connections</td>
</tr>
<tr>
<td></td>
<td>Speakers not connected, or incorrectly wired</td>
<td>Check speaker cables</td>
</tr>
<tr>
<td>Sound is not precise, lacking in bass and stereo image</td>
<td>Speakers are connected out of phase, i.e., connections to one speaker (+ and -) are reversed</td>
<td>Ensure speakers are connected correctly</td>
</tr>
<tr>
<td>Hum</td>
<td>Audio connector plug not fully pushed in</td>
<td>Insert plug securely</td>
</tr>
<tr>
<td></td>
<td>Connector cable is faulty</td>
<td>Check that the cable outer shield (screen) connection has not become damaged or detached inside the plug</td>
</tr>
<tr>
<td>Remote control does not work</td>
<td>Amplifier’s POWER switch is set to off</td>
<td>Set switch to on</td>
</tr>
<tr>
<td></td>
<td>One or more batteries fitted the wrong way round</td>
<td>Insert batteries correctly</td>
</tr>
<tr>
<td></td>
<td>Batteries are flat</td>
<td>Change batteries – do not mix old and new ones</td>
</tr>
<tr>
<td></td>
<td>Remote control is not pointed directly towards the front panel of the amplifier</td>
<td>Ensure there is no obstruction between the remote control and amplifier front</td>
</tr>
<tr>
<td>Remote control range has greatly reduced</td>
<td>Batteries are running out</td>
<td>Change batteries – do not mix old and new ones</td>
</tr>
</tbody>
</table>

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 A3.5 Integrated amplifier yourself, as this will invalidate the guarantee.
### A3.5 DUAL MONO INTEGRATED AMPLIFIER

#### Specifications

- **Output:** Power:
  - 150 Watts per channel into 8 Ohms (22dBW),
  - 240 Watts per channel into 4 Ohms
- **Voltage, RMS:**
  - 34 Volts @ 20Hz to 20kHz
- **Voltage, Peak-to-peak:**
  - 96 Volts
- **Current peak-to-peak:**
  - 50 Amps
- **Damping factor:**
  - 142
- **Output devices per channel:**
  - 4
- **Pre-out impedance:**
  - 50 Ohms

#### Line inputs:

- **Total harmonic distortion + noise:**
  - < 0.01%, 20Hz to 20kHz
- **Signal / noise ratio:**
  - > 100dB ‘A’-weighted
- **Input sensitivity for 147 Watts into 8 Ohms:**
  - 282mV
- **Input impedance:**
  - 100k Ohms
- **Overload margin:**
  - 26dB
- **Channel separation:**
  - > 82dB typical
- **Frequency response:**
  - 20Hz to 20kHz, +0, -0.1dB

- **Home Theatre direct input sensitivity:**
  - 30dB gain (31.5 times) nominal

- **Inputs:**
  - 5 pairs line level RCA connectors,
  - 1 pair direct power amplifier input RCA connectors for Home Theatre use (not controlled by volume adjustment)

- **Outputs:**
  - 2 amplifier channels via 1 pair binding posts per channel
  - 1 pair RCA audio outputs controlled by the volume,
  - 1 pair RCA tape record fixed line level output

- **Power requirement:**
  - 100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set),
  - 450 Watts maximum into 8 Ohms, 36 Watts idle

- **Weight:**
  - 9.7 kg, 21.4 lbs unit only, unboxed
  - 14.4 kg, 31.8 lbs in shipping carton

- **Dimensions:**
  - 440 mm, 17.3 inches wide
  - 100 mm, 3.9 inches high including feet
  - 395 mm, 15.6 inches deep including terminals

- **Standard accessories:**
  - IEC type mains lead (10-Amp type),
  - Remote control handset (A3.5 type, universal),
  - 2 batteries size LR03 or AAA, manganese alkaline type
  - 3.5mm stereo jack plug to two RCA plug audio lead (1metre) for accessory connection (iPod, MP3 etc.)

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

<table>
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<tr>
<th>RELEASE</th>
<th>DATE</th>
<th>CHANGES</th>
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</thead>
<tbody>
<tr>
<td>Issue 1</td>
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<tr>
<td>Issue 2</td>
<td>22&lt;sup&gt;nd&lt;/sup&gt; March 2005</td>
<td>Update specifications</td>
</tr>
<tr>
<td>Issue 3</td>
<td>14&lt;sup&gt;th&lt;/sup&gt; April 2005</td>
<td>Added revision history</td>
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