# Abbingdon Music Research

## AM-77 Reference Class

## Dual-Mono Pre-Main Amplifier

# Owner's Manual

**Abbingdon Music Research**

**FCC Declaration of Conformity - United States only**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC WARNING:**

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which

the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

**Canadian Notice (Avis Canadien)**

Class B Equipment

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE

This products complies with the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (in parentheses are the equivalent international standards and regulations):

o EN55022 (CISPR 22) - Electromagnetic Interference

o EN55024 (IEC61000-4-2, 3, 4, 5, 6, 8, 11) - Electromagnetic Immunity

o EN61000-3-2 (IEC61000-3-2) - Power Line Harmonics

o EN61000-3-3 (IEC61000-3-3) - Power Line Flicker

o EN60950 (IEC60950) - Product Safety

# WARNINGS

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this component.

This component weighs over 35 kilograms. Do not place this component on an unstable cart, stand, tripod, bracket or table as the component may fall causing serious injury to a child or adult and serious damage to the unit. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the component and cart combination to overturn.

Any mounting of the device on a wall or ceiling should follow the Manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

Read and follow all the safety and operating instructions before connecting or using this component.

All warnings on the component and in its operating instructions should be adhered to.

Retain this Owner's Manual for future reference.

Do not use this unit near water; for example, near a bath tub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool.

Unplug the component from the wall outlet before cleaning. Never use benzine, thinner or other solvents for cleaning; use only a soft damp cloth.

Care should be taken so that objects do not fall, and liquids are not spilled into the enclosure through any openings.

This component should be serviced only by qualified AMR service personnel when:

A.    The power cable or the power input socket has been damaged;

B.    Objects have fallen, or liquid has been spilled into the component;

C.    The component has been exposed to rain or liquids of any kind;

D.    The component does not appear to operate normally or exhibits a marked change in performance;

E.    The component has been dropped or the enclosure has been damaged.

DO NOT ATTEMPT SERVICING OF THIS UNIT YOURSELF. REFER SERVICING TO QUALIFIED AMR SERVICE PERSONNEL

Upon completion of any servicing or repairs, request the service point's assurance that only AMR Authorised Replacement Parts with the same characteristics as the original parts have been used, and that the routine safety checks have been performed to guarantee that the component is in a safe operating condition.

REPLACEMENT WITH UNAUTHORIZED PARTS MAY RESULT IN FIRE, ELECTRIC SHOCK OR OTHER HAZARDS

**Precautions**

This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection cable shorter than 3 metres.

**On power sources**

The mains power cable should be routed so that it is not likely to be walked on or pinched, especially near the plug or back panel receptacle. The component should not be disconnected from the AC power source as long as it is connected to the wall outlet, even if the component itself has been turned off.

If this component is not going to be used for a long time, be sure to disconnect the component from the wall outlet. To disconnect the AC power cable, grasp the plug itself; never pull the cable.

**CAUTION**
**RISK OF ELECTRIC SHOCK**
**DO NOT OPEN**

**On placement**

The AM-77 may become warm during normal operation. Given this, it is imperative that the AM-77 when installed, its location or position DOES NOT interfere with its proper ventilation.

For example, it should not be situated on a bed, sofa, rug or similar surface that may block the top or bottom ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet, that may impede the flow of air through its top and bottom ventilation openings.

Do not place the component in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock. Do not place the component in an inclined position.

It is designed to be operated in a horizontal position only. Do not place heavy objects on the component.

Keep the component away from equipment with strong magnets, such as microwave ovens or large loudspeakers.

To prevent fire or shock hazard, do not place vessels filled with liquids, such as vases, on the component.

**Running-In**

AMR estimates that the AM-77 may take between 300-500 operating hours for all of the internal components to be fully-broken in. Please anticipate the sonic performance of the AM-77 to settle only after it has been used for this approximate length of time.

# Contents

# Section 6 - Additional Connectivity

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# Section 1 - Setup

Thank you for purchasing this AMR Reference Class component.

We hope you derive as much pleasure from using this component as we have enjoyed making it for you.

## 1.1 Unpacking

This section refers to the unpacking of the AM-77 and its subsequent setup.

Upon unpacking, please find:

<table>
<tr><td>i.</td><td>AM-77 Reference Class Dual-Mono Pre-Main Amplifier.</td></tr>
<tr><td>ii.</td><td>RC-77 Remote Commander.</td></tr>
<tr><td>iii.</td><td>Mains power cable.</td></tr>
<tr><td>iv.</td><td>Synchronisation (3.5mm jack) cable (for linking-up multiple AM-77s).</td></tr>
<tr><td>v.</td><td>AM-77 Owner's Manual.</td></tr>
<tr><td>vi.</td><td>AMR Warranty Card.</td></tr>
<tr><td>vii.</td><td>AMR Test Disk.</td></tr>
<tr><td>viii.</td><td>Aluminium professional flightcase.</td></tr>
</table>

*Please that check all contents are present*

Please ensure that all items are present. Should an item be missing, please contact your AMR distributor/dealer.

## 1.2 Setup
## Pre-Main Stereo Amplifier Connection

The following diagrams illustrate the standard connection of the AM-77 in pre-main stereo amplifier mode. This is the default factory setting and is suitable for the majority of audio systems. Figure 1.1 depicts the use of standard banana/spade speaker connectors while Figure 1.2 illustrates the use of Speakon connectors.

Default pre-main mode: the AM-77 as an integrated amplifier

**Figure 1.1 System connection using banana plug/spade connector equipped speaker cables**

Warning: ensure no speaker connector is in contact with the chassis to cause a short-circuit!
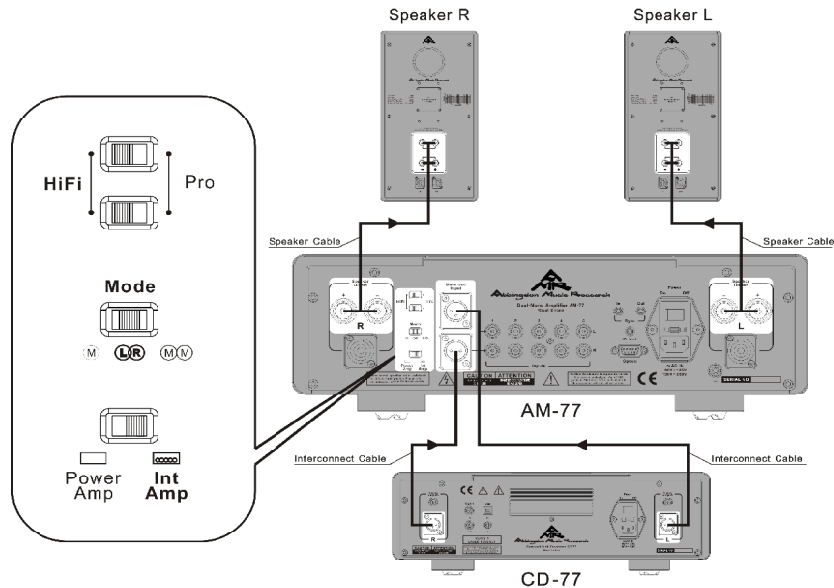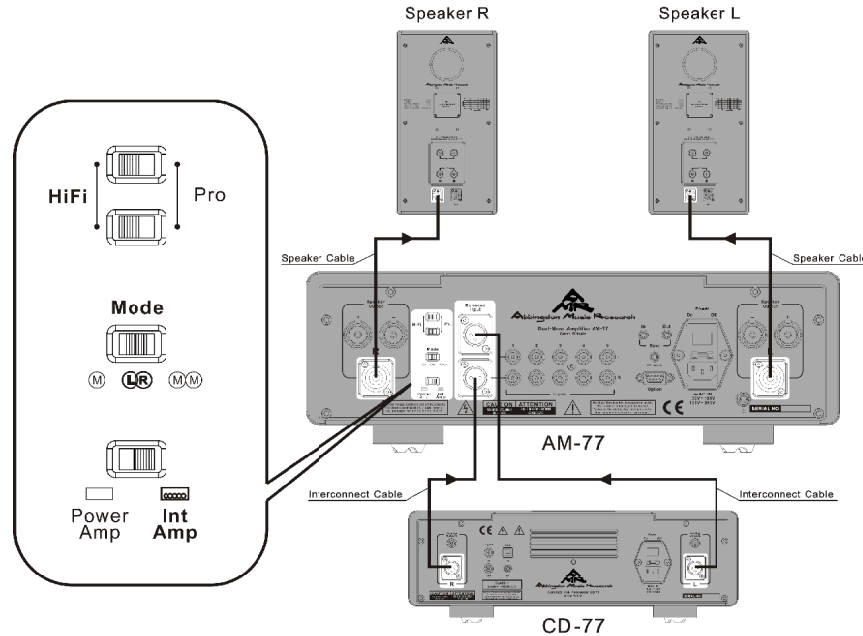


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**Figure 1.2 System connection using Speakon connector equipped speaker cables**

AMR recommends the sonically superior Speakon connectors



i. Connect the respective spade/banana/Speakon connectors of the speaker cables to the AM-77.

ii. Connect the source/s via the respective left and right XLR or RCA connectors to Inputs 1-5.

iii. Connect the IEC of the mains power cable to the AM-77 and the socket to a mains source.

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### 2.1 AM-77 Front Panel

The plastic protective film covering the display may be removed
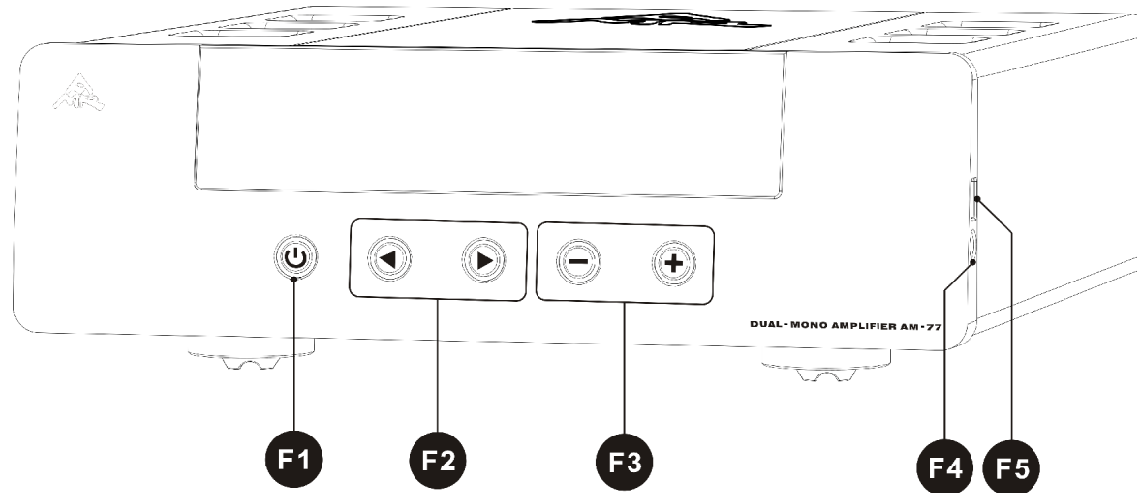


**F1. STANDBY**: to place the AM-77 in active or standby mode.

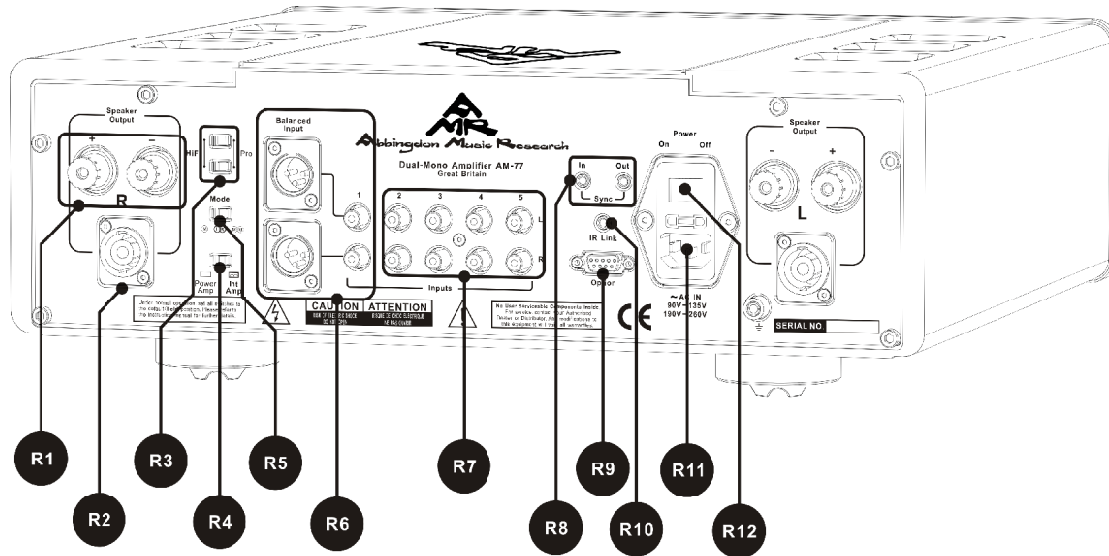**F2. SOURCE**: to select between the 5 different inputs.

**F3. VOLUME**: to adjust the volume level.

**F4. iPod 3.5mm input connector**: for the connection of an iPod or similar portable music device.

**F5. iPod USB charging connector**: for re-charging an iPod or similar portable music device.

## 2.2 AM-77 Rear Panel

**R1. SPADE/BANANA outputs**: for connection of standard termination speaker cables.

**R2. SPEAKON outputs**: for connection of Speakon terminated speaker cables.

**R3. HIFI/PRO switch**: to allow for a source with transformer balanced output*.

**R4. INT/POWER amp switch**: to alternate between Pre-Main and Power Amplification setings*.

**R5. MODE switch**: to alternate between Stereo/Monoblock/Bi-Amplification settings*.

**R6. INPUT 1**: shared XLR and RCA input, for signal input of source equipment.

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**R7. INPUTS 2-5**: RCA inputs, for signal input of source equipment.

**R8. SYNC connectors**: for connection of more than one AM-77.

**R9. RS232 option connector**: to facilitate future upgrades*.

**R10. Infra-Red Link**: for connection of a wireline remote control.

**R11. IEC power connector**: for the connection of a mains power cable to the AM-77.

**R12. POWER**: rocker switch to power on/off mains electricity to the AM-77.

In the majority of audio systems, the AM-77 is most likely to be operated as a Pre-Main Amplifier: please inspect the rear panel of the AM-77 to verify that the default settings (in bold) to enable the AM-77 to operate in this mode are as follows:

- **HIFI/PRO switch** (R3) is set to 'HiFi' (set to left position)

- **INT/POWER switch** (R4) switch is set to 'Int' (set to right position)

- **MODE switch** (R5) is set to 'LR' (set to middle position)

\* Please refer to Sections 3 - 5 for a more detailed explanation.

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## 2.3 RC-77 Remote Control
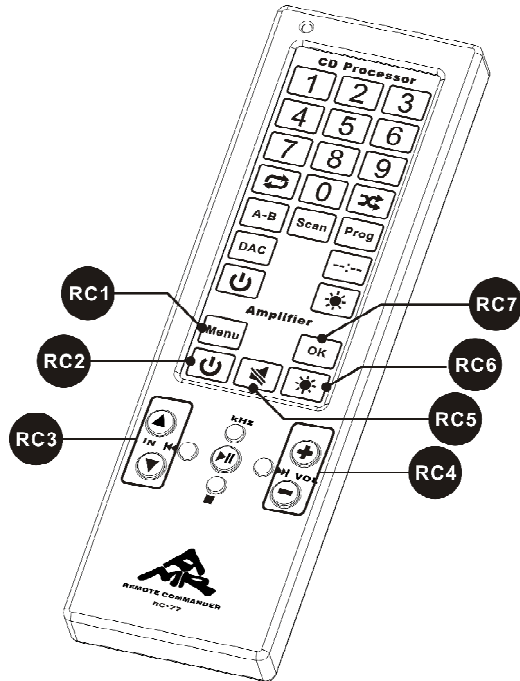
**RC1. MENU**: to enter Advanced Features mode*.

**RC2. STANDBY**: to place the AM-77 in active/standby mode.

**RC3. SOURCE**: to select between the 5 different inputs.

**RC4. VOLUME**: to adjust the volume level.

**RC5. MUTE**: to Mute (temporarily turn off sound) the AM-77.

**RC6. BRIGHTNESS**: to adjust brightness levels.

**RC7. OK**: to be used in Advanced Features mode*.

* Please refer to Section 4 - Advanced Features section for more details

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### 3.1 Power On/Off

Once powered OFF: always wait 30 seconds before switching on again

Press and release the 'POWER' rocker switch (R12) at the rear of the AM-77 to switch on the mains power.

To switch the mains power OFF, press again and release. **Always WAIT at least 30 seconds** before switching ON again. This is to enable the *OptiMains*® circuit to shutdown properly.

The display will light up to indicate the unit is switched on and ready for use. This should take just under 1 minute as the *OptiMains*® circuit is verifying and the AM-77 is warming up.

### 3.2 Volume Adjustment

**Beware: prolonged listening at high volume levels is likely to damage your hearing**

Adjust the volume up or down to attain a comfortable level for listening.

While adjusting volume levels, there may be a very minor "click" from AM-77 and the speakers. This is the normal operation of the relays within the *OptiLevel*® direct path precision volume control.

### 3.3 Rear Inputs

At the rear of the AM-77, there are 5 inputs for the connection of source components.

Input 1 (R6) is of most consequence because first, while all 5 inputs can be connected via RCA only, Input 1 also allows for the optional connection of XLR connectors.

Second, in other configurations where the AM-77 is used in single-channel mode, all other inputs are defeated. Signal input is allowed only through the LEFT channel (white) of Input 1: via XLR or RCA (Please refer to *Section 5 - System Configurations* for a detailed explanation).

### 3.4. Speakon Outputs

At the rear of the AM-77 are Speakon female connectors (R2) to allow speaker cables terminated with Speakon male connectors to be connected to the AM-77.

### 3.5 Synch Connectors

At the rear of the AM-77 are Synchronisation 'In' and 'Out' connection points (R8). This is for the linking of multiple AM-77s for alternative system configurations. Please refer to *Section 5 - System Configurations* for a detailed explanation.

### 3.6 Mode Switch

At the rear of the AM-77 the 'Mode' switch (R5) allows for the AM-77 to alternate between Stereo/Monoblock/Bi-Amplifier modes. Please refer to *Section 5 - System Configurations* for a detailed explanation.

### 3.7 Int/Power Switch

At the rear of the AM-77, the 'Int/Power' switch (R4) enables the AM-77 to alternate between pre-main or power amplification modes. Please refer to *Section 5 - System Configurations* for a detailed explanation.

### 3.8 HiFi/Pro Switch

At the rear of the AM-77, the 'HiFi/Pro' switch (R3) allows for a source with a transformer balanced output to be connected to the AM-77. Please refer to *Section 6 - Additional Connectivity* for a detailed explanation.

### 3.9 RS232 Option Connector

At the rear of the AM-77, the RS232 connector (R9) allows the AM-77 to be upgraded. Please refer to *Section 6 - Additional Connectivity* for a detailed explanation.

### 3.10 Menu (RC-77 only)

The MENU button (RC1) will enter the Advanced Menu system of the AM-77. Please refer to *Section 4 - Advanced Features* for a detailed explanation.

### 3.11 OK (RC-77 only)

The OK button on (RC7) the RC-77 is for the confirmation of a desired selection within the Advanced Menu system of the AM-77. Please refer to *Section 4 - Advanced Features* for a detailed explanation.

### 3.12 Mute (RC-77 only)

The MUTE button (RC5) will disengage the volume of the AM-77 and re-engage the volume if it is pressed again.

### 3.13 Brightness (RC-77 only)

The BRIGHTNESS button (RC6) will adjust the display's brightness at the front panel of the AM-77. There are 4 different brightness settings including display off.

With its own isolated power supply, with the display ON or OFF, there is no sonic impact upon the AM-77.

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## 4.1 Labelling of Inputs and Setting Level Offset

With the AM-77, in one process, it is possible to label each of the 5 inputs for a corresponding source and to set the respective level offset. This function is recommended only after ALL desired sources have been connected to the AM-77.

| Setup | → | Labeling Input X | → | Setting Level Offset |
|-------|---|------------------|---|----------------------|
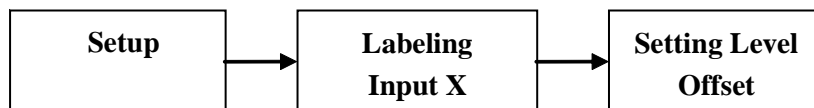
A list of available labels is shown overleaf in chronological order.

The main advantage of setting the level offset is that the volume level will change in real-time, so that the user may adjust the offset without the need for additional equipment. By using this function and selecting the desired level offset, one may 'match' the volume level of all inputs so that when switching between sources, the volume remains the same, thereby avoiding undesirable and potentially equipment-damaging noise levels.

For example:

```
Input 1   CD Player (2V output)        Offset: 0dB

Input 2   LP (1V output)               Offset: +6dB

Input 3   SACD Player (4V output)      Offset: -6dB
```

The following steps outline the procedure to label all the inputs and set the respective level offset.

List of available inputs:

All types of sources accomodated

1. Input X (*default*)
2. Aux I
3. Aux II
4. Aux III
5. CD Processor
6. D/A Processor
7. DVD Player
8. DVD Recorder
9. HD Recorder
10. HDTV
11. iPod
12. LCD TV
13. Media Center
14. MP3 Player

15. PC Audio
16. Phono Stage
17. Plasma TV
18. Pre-Amplifier
19. SACD Player
20. Tape Deck
21. Television
22. Tuner
23. Turntable
24. Uni Player
25. Video Player
26. Home Theatre
27. Home Theatre Direct

## 4.2 Labelling Input X

• Press the **Menu** key on the RC-77

• Use the **Volume+/Volume-** to scroll through the labels (see previous page for the full list of available labels)

• Press the **OK** key on the remote to store the new name

You will then move automatically onto 'Setting Level Offset'


## 4.3 Setting Level Offset

• **Level Offset** is flashing on the 1$^{st}$ line of the display

• Use the **Volume+/Volume-** to increase/decrease the offset, the volume will also change in realtime

• The range of offset available is from **-18dB** to **+12dB**

• Press the **OK** key on the remote to store the new offset

Repeat this for all the inputs.

## 4.4 Setting Fixed Input Level

When using the AM-77 as part of a home theatre system with an external processor controlling the overall system volume, it is possible to program one of the five input sources to have a fixed level of input such as for a home theatre system of either 0.775V (0dbu) or 1.55V (+6dBu). This allows the 2-Channel music system to be seamlessly integrated into a high performance multi-channel home cinema system.

- Go to Section 4.1 and follow the instructions to select the last label:

HTD mode: always use an external pre-amp as this mode will switch the AM-77 to full volume!

```
H   o   m   e       T   h   e   a   t   r   e
            D   i   r   e   c   t
```

- Simultaneously press '+' volume (F3) on the front panel of the AM-77 and 'OK' (RC7) on the RC-77.

- Having entered the 'Fixed Input' menu, now select:

```
Fixed Input 1.55V = +6dBu
```

or

```
Fixed Input 0.775V = 0dBu
```

***Warning! By selecting Home Theater Direct mode, the volume of the amplifier will be switched to full. Hence if it is used incorrectly, it will damage the connecting speakers. AMR assumes no responsibility for any speaker damage arising from use of the AM-77.***

### 4.5 *OptiProtect®* Speaker Overload Protection

Within *OptiProtect®* the AM-77 has an in-built speaker protection circuit.

This is mainly a final safeguard against equipment failure and/or extreme levels of over-driving the amplifier and speakers.

When the display shows:

```
S  p  e  a  k  e  r      P  r  o  t  e  c  t  i  o  n
                  E  n  g  a  g  e  d  !
```

This indicates that the AM-77 has detected an output condition that could potentially damage the speakers connected to it.

Normally switching the AM-77 off, waiting 30 seconds and switching it back on will reset the protection circuit if the cause was for example, excessive signal levels. In the extremely rare event that an internal malfunction of the AM-77 is the cause for the protection circuit to engage, the protection will re-engage on switch-on, indicating the need for the AM-77 to be serviced.

### 4.6 *OptiMains*® Protection for Excessive Under/Over-Voltages

The AM-77 is fitted with the *OptiMains*® system to condition and adjust the incoming mains supply for best operation under all normal mains conditions (including situations that will cause audible problems without *Opti-Mains*®).

In almost every country throughout the world, instances do arise where fluctuations in the main electricity exceeds that of a correctly operating mains supply and any electrical item/product is no longer properly served. In the case of extreme power surges, brown outs or other exceptional/unexpected conditions that exceed the safety margins, the *OptiMains*® system will automatically switch off the mains power to the internal parts of equipment to prevent any damage from occuring.

If the display reads:

```
A  C     V  o  l  t  a  g  e     O  u  t  s  i  d  e

   O  p  e  r  a  t  i  n  g     R  a  n  g  e  !
```

Power OFF your AMR component and wait at least 5 minutes. If and when the mains electricity has been deemed to have returned to normal (such as during a brown out and the lights have dimmed but have returned to normal brightness) then power up your AMR component as per the manual's instructions.

# Section 5 - System Configurations

## 5.1 *OptiOperation®* Different System Configurations

It is assumed all prior sections have been read & understood with all requisite connections made

In keeping with AMR's philosophy that 'no one sound fits all' the AM-77 is adaptable to suit virtually any system configuration; able to operate at one end as a Pre-Main stereo amplifier and at the other, as a single-channel power amplifier. In Pre-Main amplifier mode, the AM-77 will use both the pre- and power amplification sections: the AM-77 controls volume level and input selection controls. In Power amplification mode, the AM-77 wil require an external, separate pre-amplifier to handle volume and input selection duties.

The following section describes alternative configurations for the AM-77 beyond the factory default: Pre-Main Stereo amplifier setting. With diverse system permutations in mind, the AM-77 has built-in, six *OptiOperation®* modes to seamlessly integrate into virtually any audio system configuration:

Six different modes

Mode I.    Pre-Main Stereo amplifier mode (default)

Mode II.   Pre-Main Monoblock amplifier mode

Mode III.  Pre-Main Bi-amplifier mode (horizontal biamping)

Mode IV.  Power amplifier Stereo mode

Mode V.   Power amplifier Monoblock mode

Mode VI.  Power Bi-amplifier mode (horizontal biamping)

Supreme adaptability

The combination of synchronising multiple AM-77s together in practical terms is limited only by room size and cost. This approach allows for systems at the core, comprising of *any* number of AM-77s to be constructed to *any* level of complexity.

In short, the AM-77's flexibility is limited only to that of the imagination. For example, one may employ:

*- 3xAM-77s synchronised along with a high-quality digital crossover to drive a fully-active 3-way speaker system to the highest possible level of sound reproduction or;*

*- 3xAM-77s synchronised for a multi-channel surround sound system or;*

*- 2xAM-77s synchronised in monoblock or bi-amplification mode to drive suitably-equipped speakers.*

## 5.2 Connection of more than one AM-77

Before an alternative configuration is selected, ALWAYS ensure the AM-77 is switched OFF
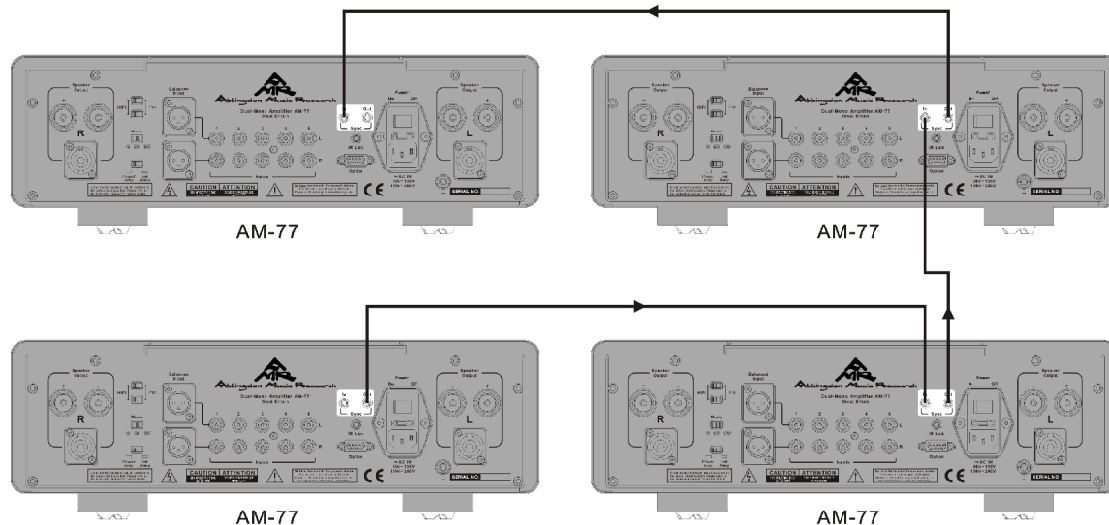
The following pages provide an outline of the theoretical wiring system behind each of the six different configurations with a brief accompanying summary.

## Mode I. Pre-Main Stereo
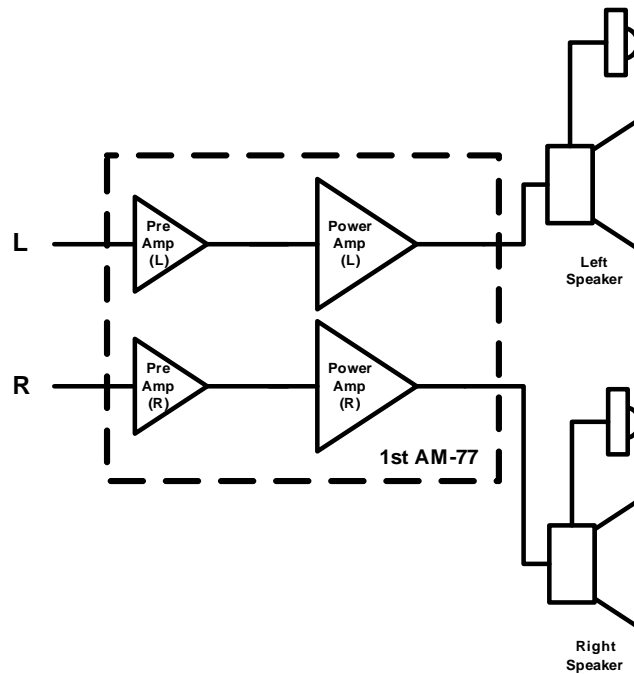


- Standard system with AM-77 as the only amplifier.

## Mode II: Pre-Main Monoblock
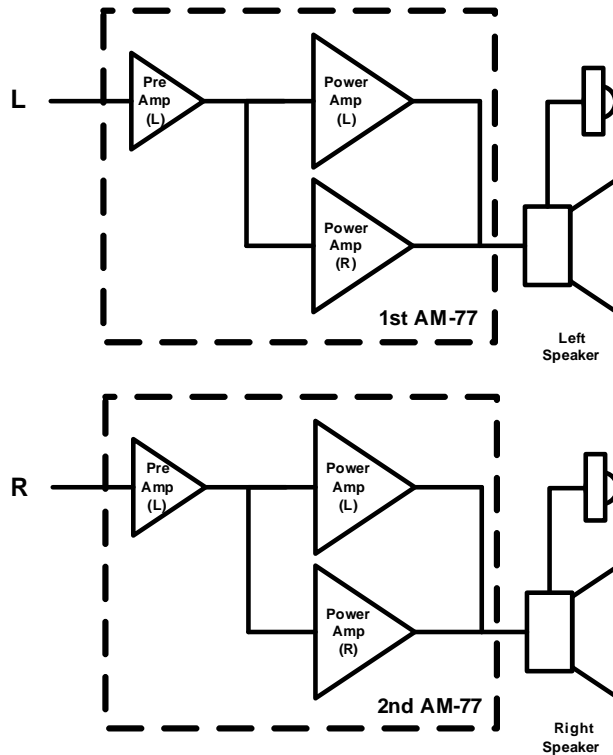


- Need 2 or more AM-77s.

- Drive low impedance speakers that only have one set of terminal connections.

- ~600W/2Ohm RMS and ~300W/1Ohm RMS without current clipping. This is best suited to driving very low impedance speakers.

## Mode III: Pre-Main Bi-Amplifier
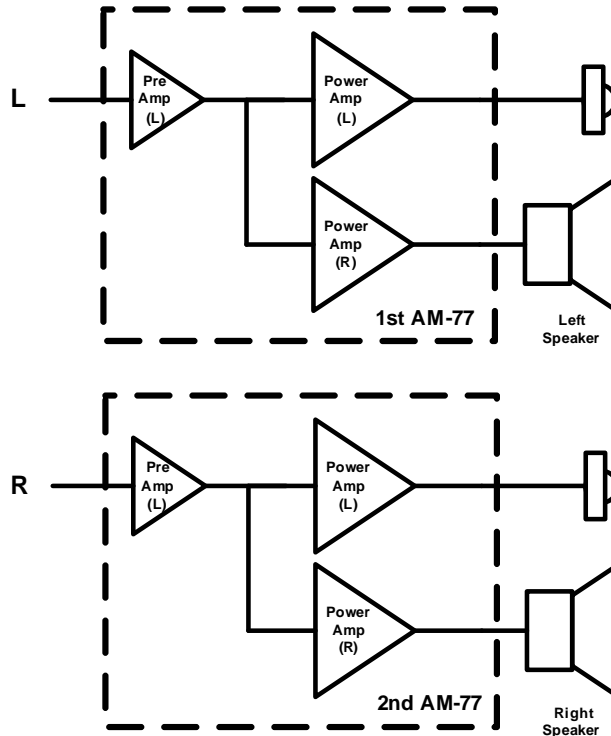


- Need 2 or more AM-77s.

- Drive speakers that have more than one set of terminal connections with improved performance and dynamic range.

- Virtually all the power supply power is available to the low frequency channel with improved channel separation.

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## Mode IV. Power Stereo

L  (L)

Power Amp (L)

R  (R)

Power Amp (R)

1st AM-77

Left Speaker

Right Speaker
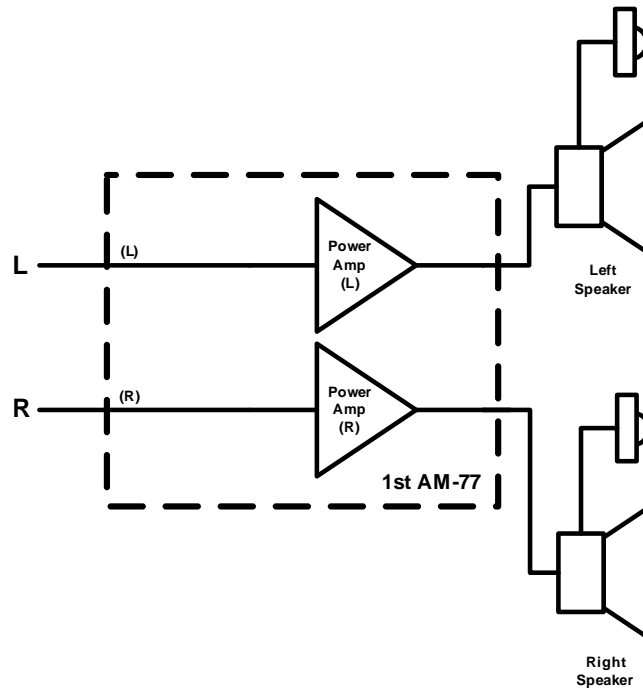
- Same as Mode I, except the Pre-Amplifier section has been bypassed.

- A separate pre-amplifier is needed to control the volume.

## Mode V. Power Monoblock
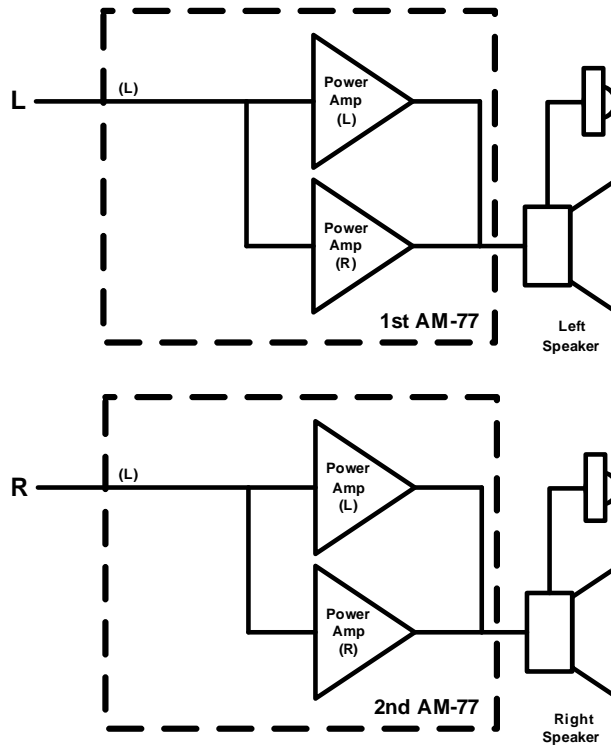


- Same as Mode II, except the Pre-Amplifier section has been bypassed.
- A separate pre-amplifier is needed to control the volume.

## Mode VI. Power Bi-Amplifier
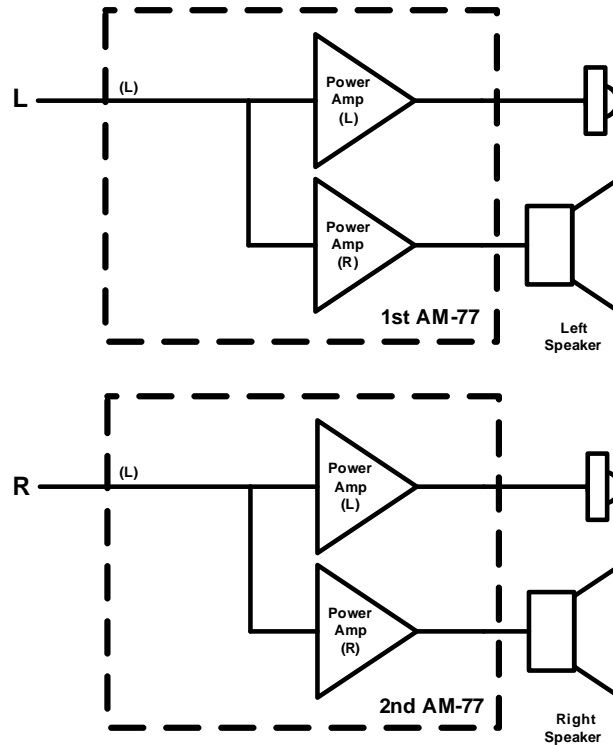


- Same as Mode III, except the Pre-Amplifier section has been bypassed.

- A separate pre-amplifier is needed to control the volume.

## 5.3 Switching and Connection Diagrams for Different Modes

The following is a description of the switch settings and connections required to engage the various modes.

### Mode I: Pre-Main Stereo amplifier (default)

The default factory setting
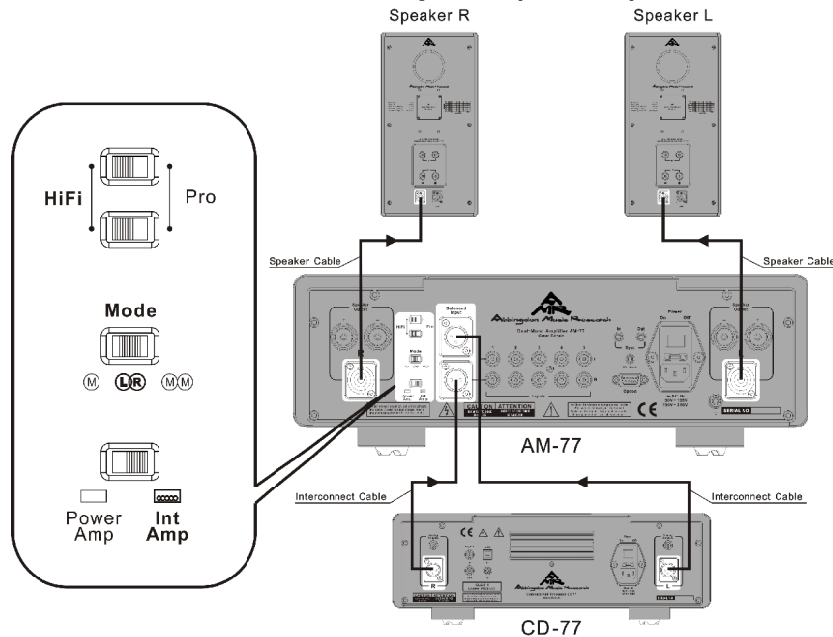


This is the factory default setting: the connection for which has been described in detail in *Section 1 - Setup*. We have illustrated the default switch positions here for ease of reference to re-configure from an alternative system setup back to the Pre-Main Stereo amplifier mode.

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## Mode II: Pre-Main Monoblock amplifiers
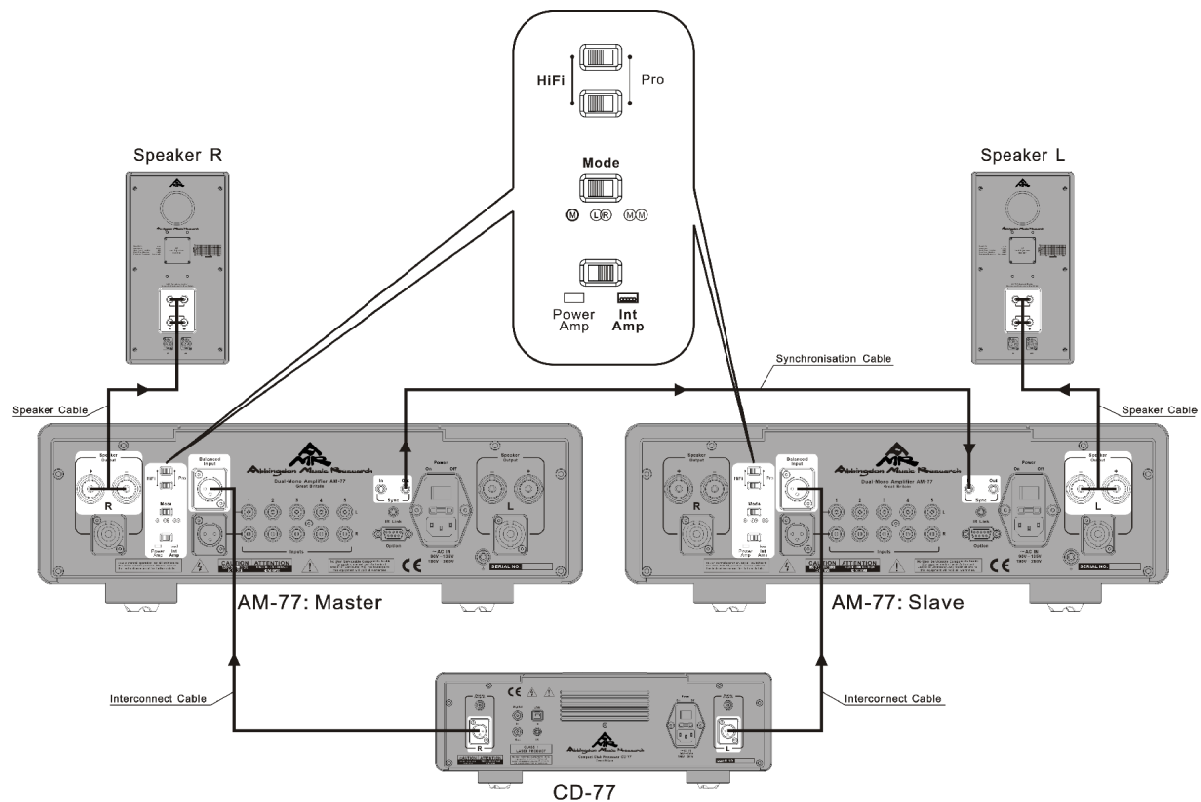
Note: This function requires at least 2 x AM-77 synchronised Pre-Main amplifiers.

*i. Power OFF via the 'POWER' (R12) mains switch at the rear of both AM-77s.*

*ii. Connect the cable from the 'Sync Out' connector (R8) of the 'master' amplifier to the 'Sync In' connector (R8) of the 'slave' amplifier. The amplifier with the cable connected to 'Sync In' becomes 'slaved' to the other and will automatically follow the 'master' AM-77.*

*iii Using a small flat blade screwdriver, move the 'MODE' switch (R5) to the left to select 'M'.*

*iv. Using a small flat blade screwdriver, move the 'INT/POWER AMP' switch (R4) to the right to select 'INT AMP'.*

*v. Repeat this process for the other AM-77.*

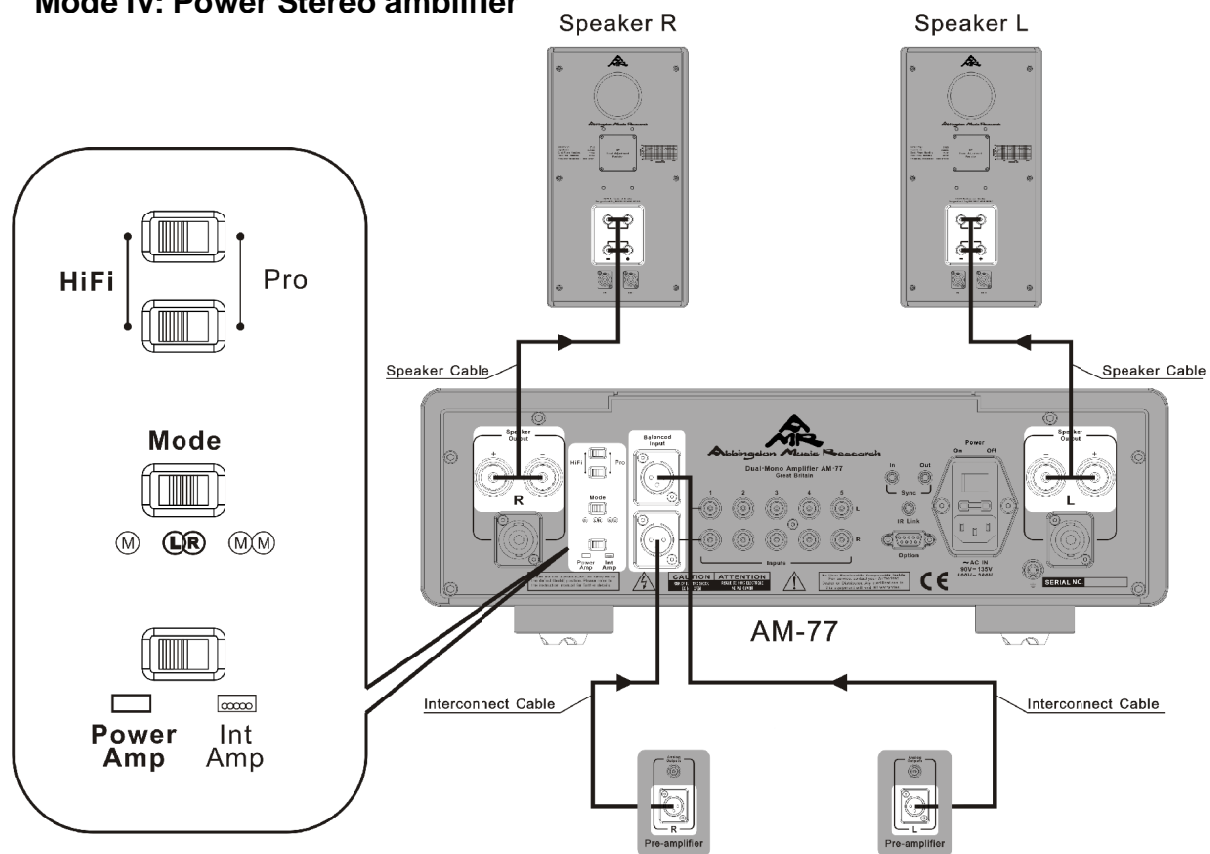*vi. Power both AM-77s back on via the 'POWER' switch (R12).*

## Mode III: Pre-Main Bi-amplifier (horizontal bi-amping)
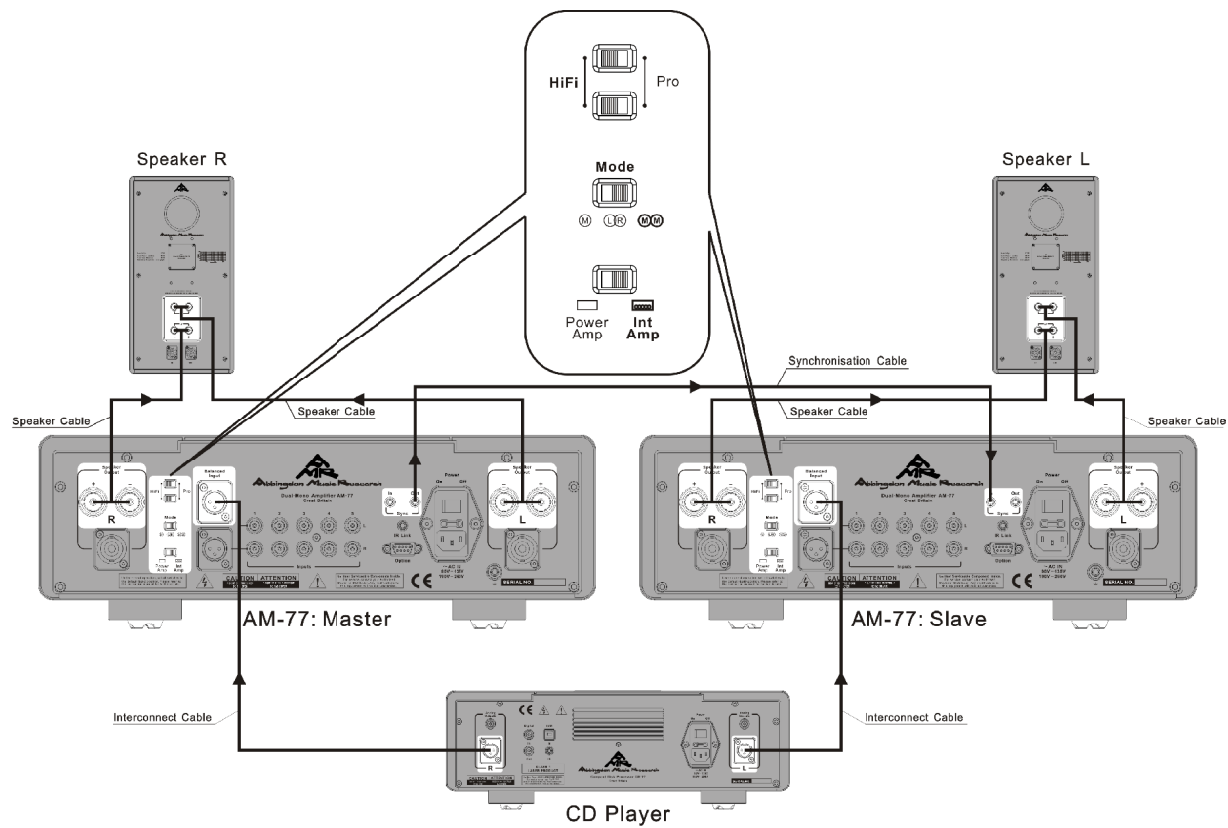
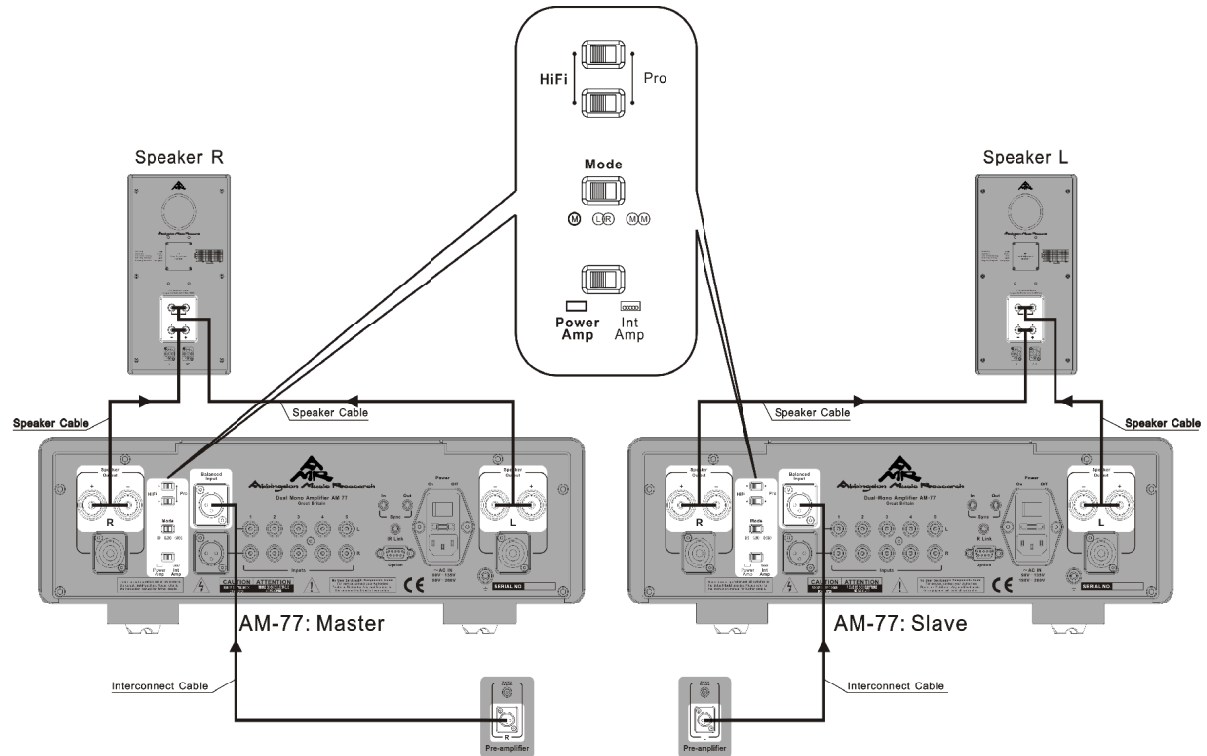Note: This function requires at least 2 x AM-77 synchronised Pre-Main amplifiers.

*i. Power OFF via the 'POWER' (R12) mains switch at the rear of both AM-77s.*

*ii. Connect the cable from the 'Sync Out' connector (R8) of the 'master' amplifier to the 'Sync In' connector (R8) of the 'slave' amplifier. The amplifier with the cable connected to 'Sync In' becomes 'slaved' to the other and will automatically follow the 'master' AM-77.*

*iii. Using a small flat blade screwdriver, move the 'MODE' switch (R5) to the right to select 'MM'.*

*iv. Using a small flat blade screwdriver, move the 'INT/POWER AMP' switch (R4) to the right to select 'INT AMP'.*

*v. Repeat this process for the other AM-77*

*vi. Power both AM-77s back on via the 'POWER' switch (R12).*

## Mode IV: Power Stereo amplifier

*i. Power OFF via the 'POWER' (R12) switch at the rear of the AM-77.*

*ii. Connect the desired separate pre-amplifier to the AM-77 via the Balanced or RCA female connector of Input 1 (R6).*

*iii. Using a small flat blade screwdriver, move the 'MODE' switch (R5) to the centre to select 'L R'.*

*iv. Using a small flat blade screwdriver, move the 'INT/POWER AMP' switch (R4) to the left to select 'POWER AMP'.*
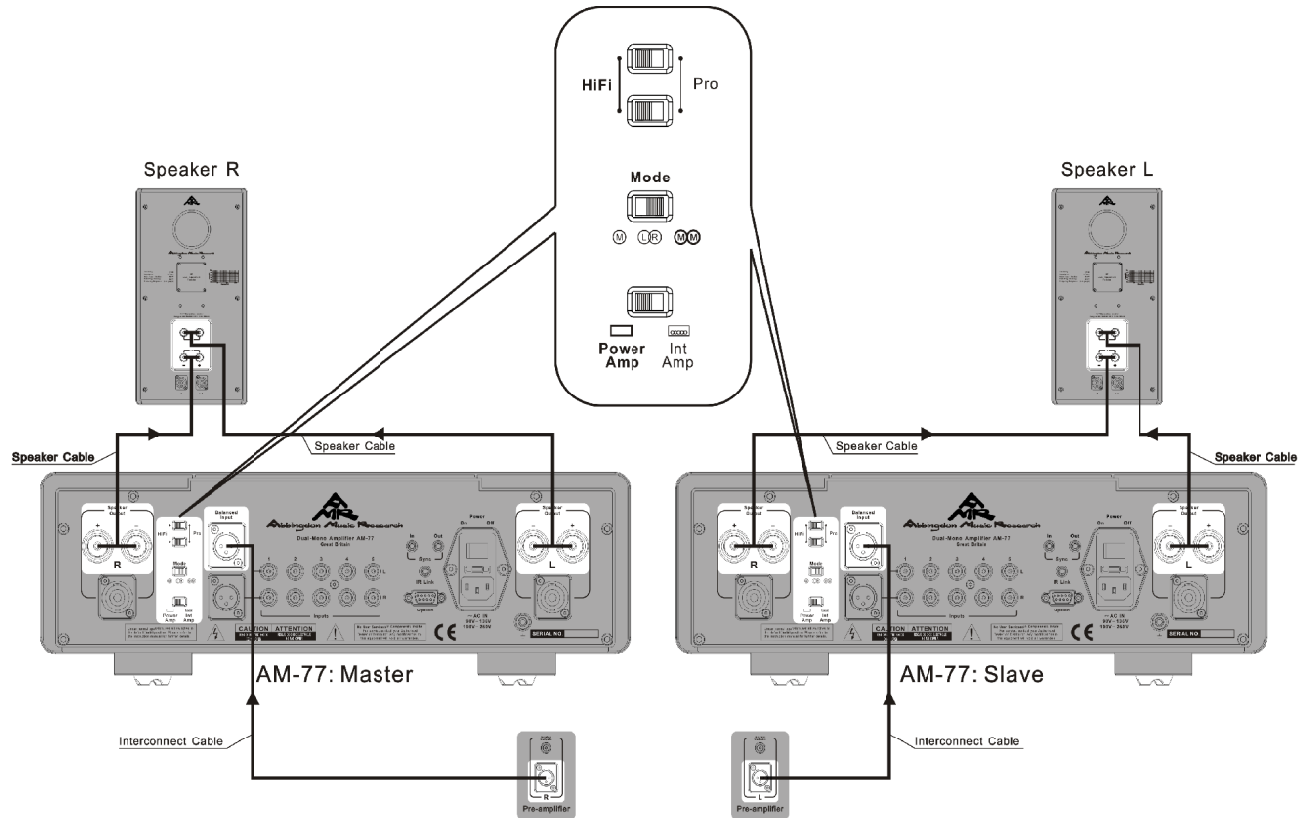
*v. Power the AM-77 back on via the 'POWER' switch (R12).*

## Mode V: Power Monoblock amplifier

Note: This function requires at least 2 x AM-77 synchronised Pre-Main amplifiers.

*i. Power OFF via the 'POWER' (R12) switch at the rear of both AM-77s.*

*ii. Using a small flat blade screwdriver, move the 'MODE' switch (R5) to the left to select 'M'.*

*iii. Using a small flat blade screwdriver, move the 'INT/POWER AMP' switch (R4) to the left to select 'POWER AMP'.*

*iv. Repeat this process for the other AM-77.*

*v. Power ON both AM-77s via the respective 'POWER' switch (R12).*

## Mode VI: Power Bi-amplifier



Speaker R

Speaker L

Speaker Cable

Speaker Cable

Speaker Cable

Speaker Cable

AM-77: Master

AM-77: Slave

Interconnect Cable

Interconnect Cable

Note: This function requires at least 2 x AM-77 synchronised Pre-Main amplifiers.

*i. Power OFF via the 'POWER' (R12) switch at the rear of both AM-77s.*

*ii. Using a small flat blade screwdriver, move the 'MODE' switch (R5) to the right to select 'MM'.*

*iii. Using a small flat blade screwdriver, move the 'INT/POWER AMP' switch (R4) to the left to select 'POWER AMP'.*

*iv. Repeat this process for the other AM-77.*

*v. Power ON both AM-77s via the respective 'POWER' switch (R12).*

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Abbingdon Music Research

## 6.1 Input for iPod/other portable music players

When the 3.5mm jack is used, ensure the RCA of Input 4 is disconnected

DC5V  0.5A
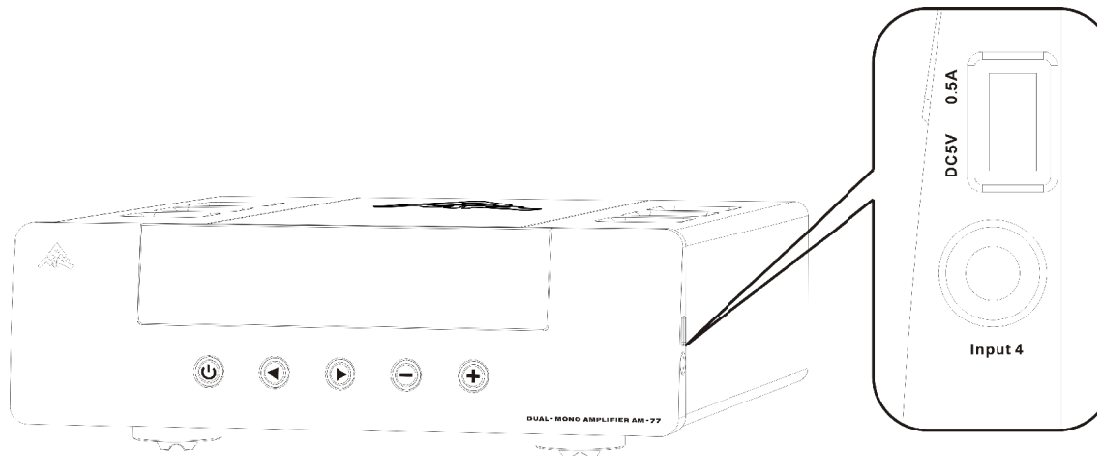
Input 4

On the front right-side panel, there is a 3.5mm jack (F4). This is for the connection of an iPod or any other portable music device for music playback through this medium.

To select this source, change selection to Input 4 (disconnect any RCA connection to Input 4 at the rear panel).

The USB connection (F5) is purely for supplying power to the iPod/other portable music device. It serves no other function.

## 6.2 HiFi/Pro Switches for Balanced XLR inputs

'Pro' switch is for the few pre-amplifiers that have floating trans-former balanced outputs
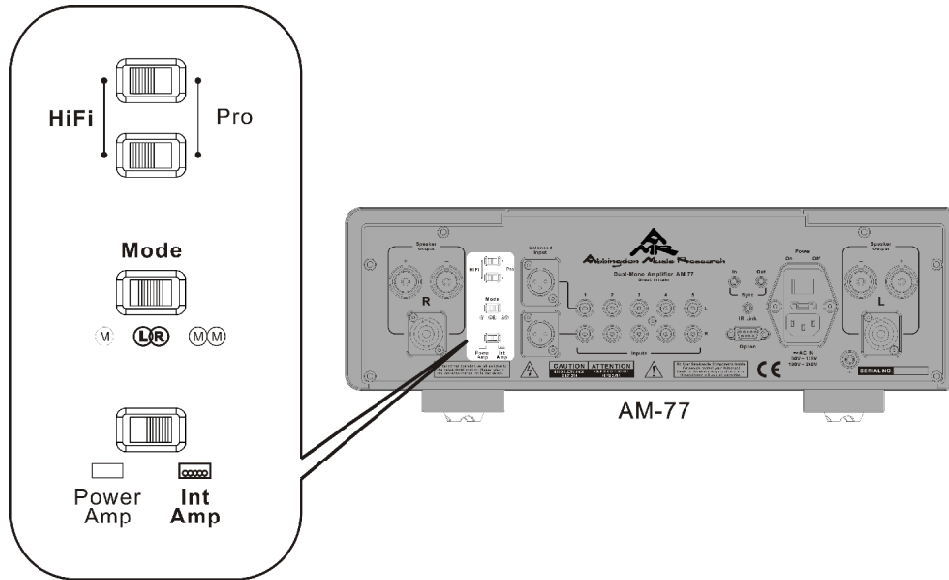


For the majority of sources, the HiFi/Pro switch (R3) is best left in the 'HiFi' position. However, if the source has a pro-audio style transformer balanced output, the HiFi/Pro switch needs to be set to 'Pro'.

A transformer balanced output uses a floating secondary from an audio transformer: unlike electronic balanced outputs of any description, the signal is NOT referenced to ground (Pin 1). For such (rather rare) equipment, the 'Pro' switch is engaged to short-scircuit Pins 1 & 3, thus establishing the ground connection.

## 6.3 RS232 Options Connector

For future up-
grades
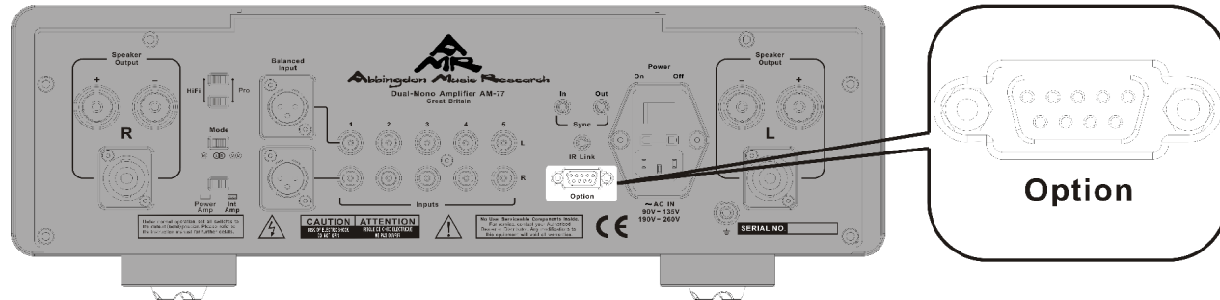


The RS232 'Options' connector port (R9) is for upgrading the functionality of the AM-77 in future. Contact your local AMR distributor/dealer for more details.

| Symptom | Possible cause | Solution |
|---|---|---|
| With power ON no power is registered | • poor/no power plug connection at mains power point | • insert the power plug firmly into the AC |
| | • blown fuse at mains plug | • check and change IEC/mains plug fuse |
| No sound | • incorrect audio cable connections | • connect the sources to the AM-77 correctly |
| | • incorrect amplifier operation | • make sure that the input selector on the AM-77 is set to the desired source |
| Strange 'blast' sound | • check speaker connectors are not in contact with the chassis/terminal | • adjust fitting between speaker and chassis<br>• Ensure no contact between chassis and spade terminals (no 'short circuiting') |
| Remote control does not work | • remote control batteries have expired | • replace 2 x AAA batteries |
| | • object obscuring remote sensor on the AM-77, no 'line of sight' | • remove any objects directly in front of the AM-77 |
| A 'humming' sound can be heard | • loose cable connections | • re-attach the loose cables correctly |
| Front switches 'jump'/ enter Standby | • static electricity | • 'Touch' the chassis prior to pressing a sensor to dis charge. Then press the desired sensor |
| Other problems | | • re-trace the setup procedure or contact your nearest AMR distributor/dealer |