



**Abbingdon Music Research**

**DP-777 Premier Class**

**Digital Processor**

**Owner's Manual**

### **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.



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

**CAUTION** - use of all controls, adjustment or performance of procedures other than specified herein may result in hazardous radiation exposure.

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 10 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 dampcloth.

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.



#### On placement

The DP-777 will become warm during normal operation. Given this, it is imperative that the installation of the DP-777 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 and compact discs 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 DP-777 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 DP-777 to settle only after it has been used for this approximate length of time.

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# Section 1 - Unpacking

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Thank you for purchasing this AMR Premier 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 DP-777 and its subsequent setup.

Upon unpacking, please find:

Please check that all contents are present

- i. DP-777 Premier Class Digital Processor.
- ii. RC-707 Remote Control.
- iii. DP-777 Owner's Manual.
- iv. USB cable.
- v. BNC > RCA gold-plated adaptor.
- vi. Mains power cable.
- vii. AMR Warranty Card.
- viii. AMR System Test Disk.

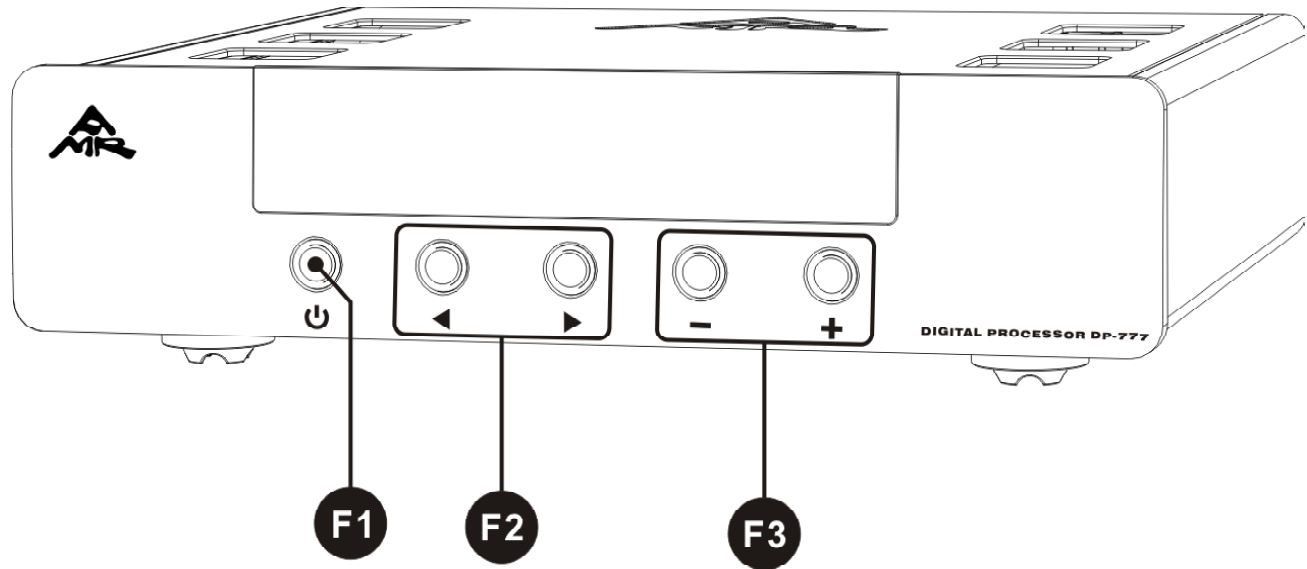
Please ensure that all items are present. Should an item be missing, please contact your AMR distributor/dealer.

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## Section 2 - Component Overview

### 2.1 DP-777 Front Panel



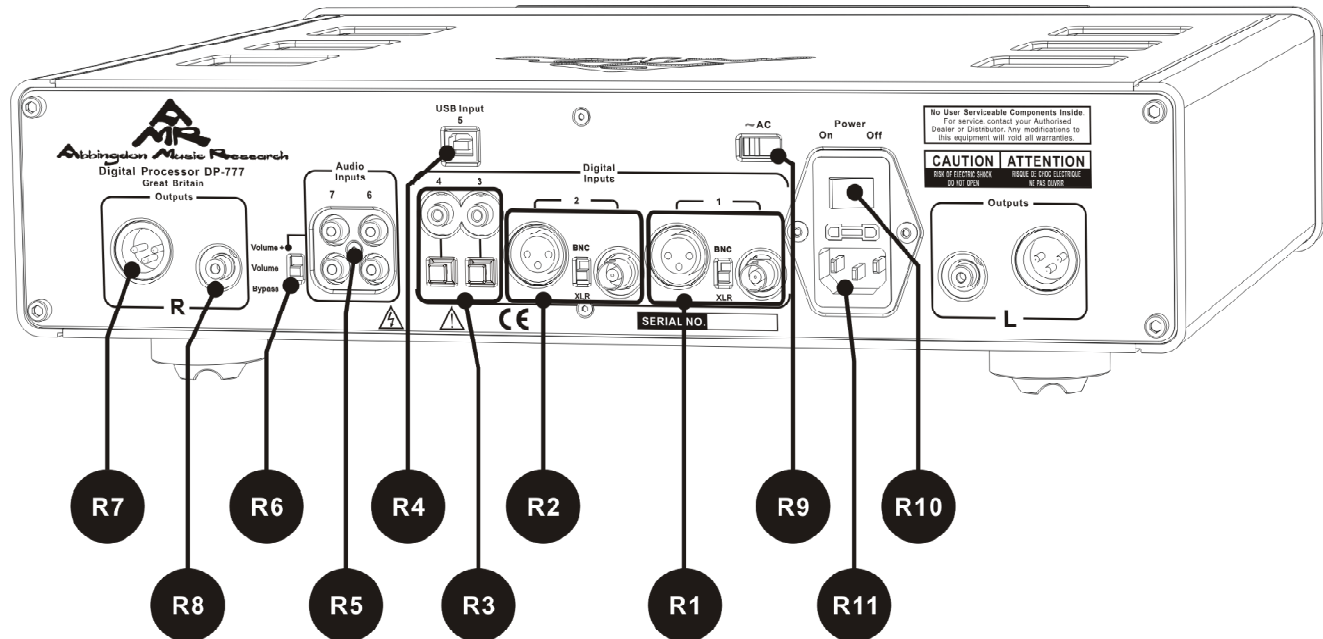
**F1. Standby:** to place the DP-777 in active/standby mode.

**F2. Input:** to select the previous/next input.

**F3. Analogue Volume Control:** to increase/decrease volume in 1dB steps

**Note:** at 0dB or “By” which is FULL volume, the Analogue Volume Control is automatically bypassed.

## 2.2 DP-777 Rear Panel



Always power OFF  
before changing an  
input selection

Optical NOT recom-  
mended for 176/192  
kHz

Direct-Coupled Ana-  
logue Volume Control

**R1 & R2. Input 1/2: “HD-Valve Digital Input” Digital SPDIF BNC/XLR (switchable):**

able to accept standard XLR SPDIF signal of 5Vpp OR BNC standard SPDIF signal of 500mVpp.

**R3. Inputs 3 & 4 Digital SPDIF Coax & Optical:**

auto-detect standard coaxial RCA standard SPDIF signal of 500mVpp OR Optical standard SPDIF signal.

**Note:** for the Optical connection, due to bandwidth limitations, we do not recommend its use for Sampling rates of 176/192 kHz.

**R4. Input 5 USB:** 24/192 Asynchronous USB Input for computer audio source.

**R5. Analogue Inputs 6-7:** enabled via R6, the DP-777 will function as a high-end Direct-Coupled pre-amplifier.

**R6. Mode Selection:**

**Volume+:** Analogue Volume Control and Analogue Inputs are enabled

**Volume:** Analogue Volume Control enabled but Analogue Inputs are disabled

**Bypass:** Analogue Volume Control and Analogue Inputs are disabled.

**R7. XLR outputs:** for the connection of XLR interconnects.

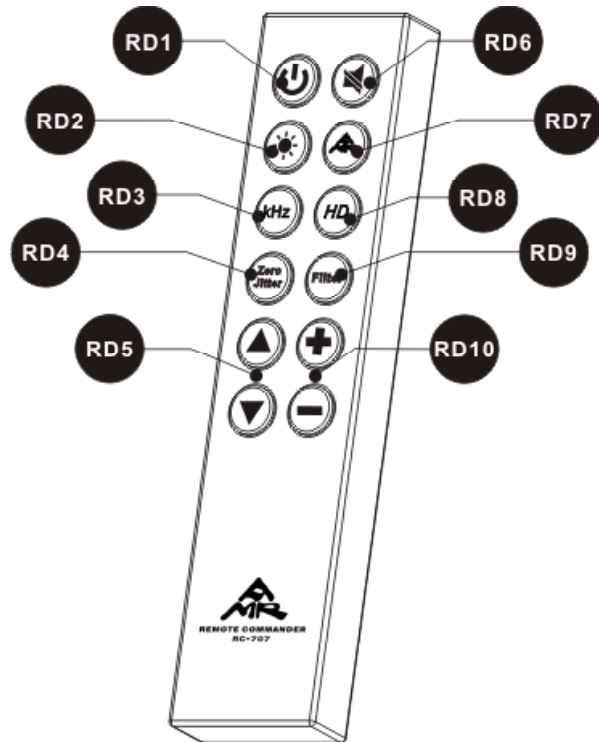
**R8. RCA outputs:** for the connection RCA interconnects.

**R9. Mains voltage selector:** to select 115v or 230v mains voltages.

**R10. Mains Power:** to switch on/off mains electricity to the DP-777.

**R11. IEC power connector:** for the connection of a mains power cable to the DP-777.

## 2.3 RC-707 Remote Control



**RD1. STANDBY:** to place the DP-777 in active/standby mode.

**RD2.BRIGHTNESS:** 4 different brightness levels including display off.

**RD3.kHz/SAMPLING:** to cycle through the different output frequencies.

**RD4.ZERO JITTER:** for the highest sound quality. When engaged, a small “J” will be displayed. When the GMT Clock System dynamically tracks a change in the clock frequency, the “J” will flash.

**RD5.INPUT selection:** to select the previous/next input.

**RD6.MUTE:** to mute the output.

**RD7.AMR:** auto-selection of the optimal settings for the best sound quality.

**Signal Polarity:** hold down the AMR button for 2-3 seconds to change the signal polarity.

**RD8.HD Dual DAC selection:** to select:

*HD DAC* (best with 24/88.2kHz-192kHz recordings) or

*Classic DAC* (best with 16/44.1-48kHz recordings).

**RD9.FILTER:** to select:

*HD DAC:* Organic / MP Listen / Apodising 808 / Traditional.

*Classic DAC:* Bit-Perfect I or Bit-Perfect II

**RD10. VOLUME Up/Down:** controls the analogue volume control.

Auto-bypass at full volume (0dB).

## Section 3 - DP-777 Operation

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This section will focus on optimising the DP-777 but please also refer to Section 5 for optimisation of the Computer Audio Source “CAS”.

### 3.1 Power On/Off

Once powered OFF: Use the POWER rocker switch (R10) at the rear of the DP-777 to switch mains power ON/OFF.  
always wait 30  
seconds before  
switching on again

**Always wait at least 30 seconds** before switching on again. This is to enable the circuits in the DP-777 to shut-down 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 DP-777 is warming up.

### 3.2 Standby

Standby will maintain power to the non-valve circuitry

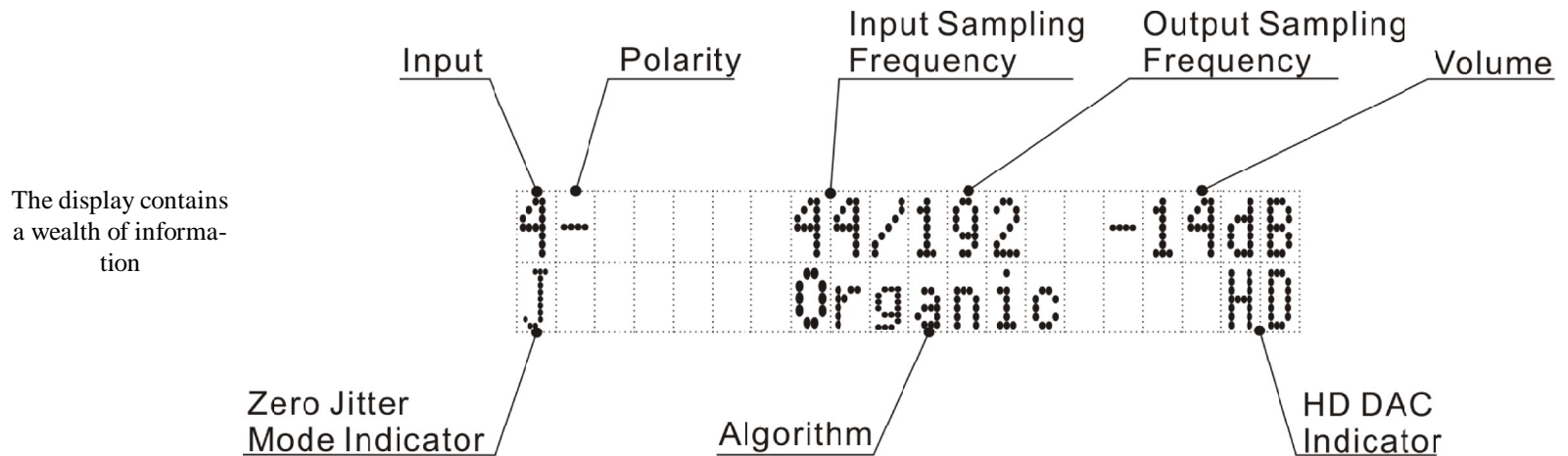
After start-up, pressing the STANDBY button on either the front panel (F1) or the RC-707 (RD1), will place the DP-777 in STANDBY mode.

### 3.3 Connection and Playback

Once the CAS/CD Transport has been connected to the DP-777 via any one of the Digital Inputs 1-5, the DP-777 is ready for the playback of music.

### 3.4 Display Information

The front display of the DP-777 provides information about the playback status.



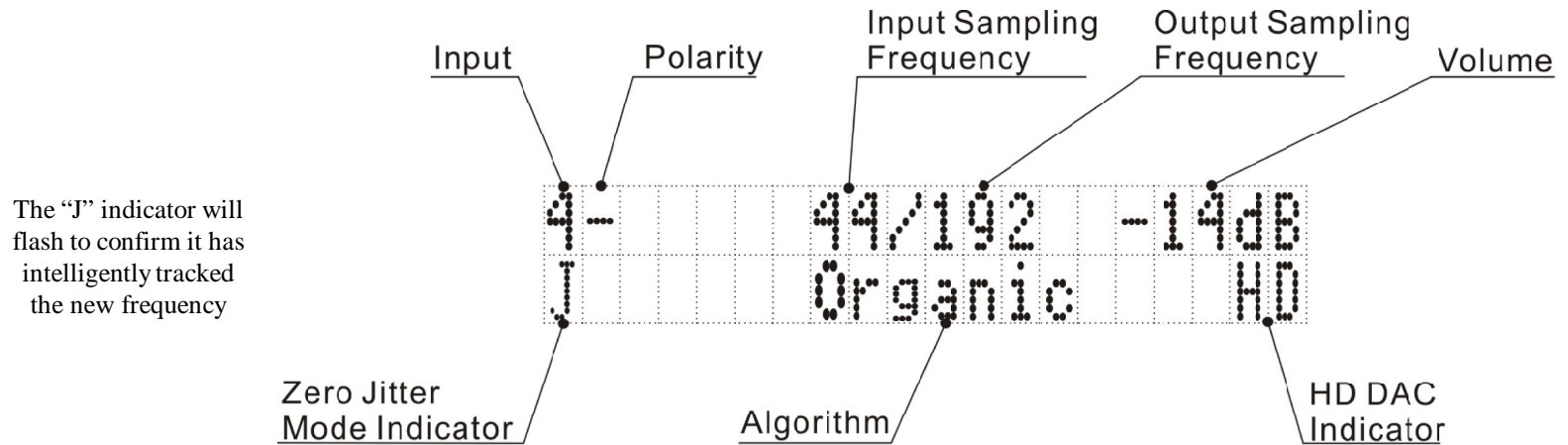
The majority of the above display is self-explanatory.

However, it is worth pointing out that the display will depict two sampling frequencies: the first is the input into the DP-777 which in the above example is from a CD transport hence 44.1kHz. The second frequency stated is the output sampling frequency by the DP-777 which in this case is 192kHz.

If there is no signal lock at the input, the Input Sampling Frequency will be “-”.

### 3.5 Zero Jitter

The RC-707 remote control allows the user access the quite exceptional options of the DP-777. When the “Zero Jitter” option (set by default) is active, a “J” is displayed in the bottom left of the display.



The DP-777’s **Global Master Timing (GMT)** and **Intelligent Memory System (IMS)** work to cancel out unwanted incoming jitter from the source.

Before the arrival of the DP-777, the issue of solving jitter introduced via SPDIF using a Phase Locked Loop (PLL) Clock recovery was seen as sufficient. However, this analogue solution to a digital problem is woefully inadequate.

- GMT is the world's first, selecting from 28 million different frequencies
- The Zero Jitter mode utilises the original innovative GMT/IMS to totally eliminate jitter coming from the source. AMR's GMT clock system intelligently actualises over 28 million different real-time clock frequencies to exactly match the dynamic input clock down to 0.001Hz (i.e. ~0.04ppm accuracy) of the source. With the new and completely jitter-free clock coupled to the Intelligent Memory System (IMS), the GMT/IMS system locks out source jitter once and for all.
- The GMT System is not a secondary PLL as used in some cases and some DACs since the late 1990's, but an entirely new concept. GMT instead is a system that will completely block jitter and only react to compensate any slow drift in the clock source or to adapt to a change in the sample rate.
- The GMT Zero Jitter mode is available for all digital inputs including the USB input and is the new clock standard reference for the digital audio world.
- GMT/IMS system may be switched off (for comparison purposes)
- For comparison purposes, such as to audition against another DAC, the user may press the Zero Jitter button (RD4) to switch off the GMT/IMS. In which case, the display will show "Normal" for 1-2 seconds and the "J" will no longer be present.

### **3.6 HD-Valve Digital input**

- SPDIF is an analogue transmission system...
- The Compact Disk standard was never conceived with the notion of distinctly separate transport and DAC sections but once this became so, SPDIF was adopted as the method to link the two together. However, SPDIF is an analogue transmission system that uses what was originally a video signal format to transmit a digital system. Clearly, this is not an elegant solution as the SPDIF clock and signal are transmitted together as if the red, blue and green signals for a television were cobbled into a single run.



...and *HD*-VDi, an analogue solution, is a world's first

In the DP-777, to overcome this set of essentially analogue problems we devised a completely analogue solution. AMR's proprietary **Valve Digital input** technology (**VDi**) is a world's first: it is the use of the 6N11 (high-speed valve operating into the 100MHz region) in a zero feedback circuit derived from military radar technology to re-establish the clean waveform of the original incoming signal from the two *HD* SPDIF Inputs.

Firstly, this ensures that even if the input SPDIF signal has an incorrect output level or poor waveform, the SPDIF input receiver will have a clean and perfect SPDIF signal to lock onto.

Secondly, as all SPDIF receivers use Schmitt Trigger input circuitry, the receiver will create a glitch noise at the trigger point, this noise travels back into the SPDIF cable, returning to the source component. It is this errant noise that is at least in part responsible for the major differences between SPDIF cables and sources in the input system of common DACs. As the *HD*-VDi isolates the SPDIF receiver from the outside world, ***HD*-VDi** eliminates the detrimental effect caused by this noise once and for all.

The DP-777's *HD* SPDIF inputs employ a NOS valve input circuit for everything all the way up to the 24/192 high-definition standard. The result is clearly visible on an oscilloscope as the SPDIF signal is restored back to its perfect wave form. This input ensures the "right note at the right time" to give the music the "life" that is missing from all other DACs.

*HD*-VDi is on Inputs 1 and 2

Therefore, we recommend that for the optimal signal transfer (i.e. highest sound quality), please use Inputs 1 or 2 (R1/R2) on either BNC or XLR. Even with an RCA connector, simply use the accompanying BNC > RCA adaptor. Inputs 3 and 4 (R3) do not use the *HD*-VDi (as they are more for convenience/comparative purposes). The USB input 5 (R4) is not required as the signal is not SPDIF.

### 3.7 Signal Polarity

To invert signal  
polarity...

In some instances, it may be more preferable to listen to music with the signal phase inverted.

The DP-777 ships with positive phase selected by default. No extra indicator will be lit.

It is possible to press and hold the “AMR” button (RD7) in which case, a “-” indicator will be displayed to depict that the signal polarity has been inverted.

### 3.7 Factory Reset

To reboot the propri-  
etary software...

Whilst holding the “▶” and the “+” buttons on the front panel and then powering up the DP-777 via the Mains Power Switch (R10) until the countdown commences will reset the DP-777 to the default factory settings.

## Section 4 - The *HD* Gemini Digital Engine

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At the core of the DP-777 Digital Processor is the Gemini Digital Engine which has not one, but two high-end DACs. Each have been hand-selected by AMR as the most musical. This section provides an overview of the different DAC/Sampling/Algorithm Filter modes available so that the original signal can be kept in its native format for the maximum musical enjoyment. Or if listener so chooses, he/she may select playback using an alternative combination.

### 4.1 *HD* Gemini Digital Engine 32/16-Bit DAC Selection

*HD* Gemini Digital Engine has auto DAC selection

The DP-777 will intelligently select the optimal DAC for playback of different source files. The 32-Bit *HD* DAC will be selected if the source file is 88.2kHz or higher. The *Classic* 16-Bit DAC will be selected if the source file is 44.1 or 48kHz.

The DP-777's *HD* Gemini Digital Engine allows the user to use the *HD* button (RD8) on the RC-707 to alternate between the *HD* 32-Bit DAC or the *Classic* 16-Bit Multibit DAC.

One may disable the Auto DAC select function by holding down the “-” button on the front panel and then powering on the DP-777 via the mains power switch (R10). To enable, simply repeat the procedure. Toggling between enable/disable will be confirmed on the front display.

### 4.2 kHz Selection

HD DAC: a total of 4 Digital Algorithms

The DP-777 under the 32-Bit *HD* DAC offers the following user-selectable Sampling frequencies: 44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192KHz. These are cycled through by pressing the kHz/Sampling button (RD3) on the RC-707.

### 4.3 HD 32-Bit Digital Algorithms

The DP-777 under the *HD* 32-Bit DAC offers the following user-selectable Digital Algorithms:

Organic / MP Listen / Apodising 808 / Traditional.

Once the Sampling mode (RD3) has been selected, these can be cycled through by pressing the “Filter” button (RD9) on the RC-707.

The following Digital Algorithm Filters may be selected:

- |   |                   |   |
|---|-------------------|---|
| <b>Organic</b> algorithm by AMR is the benchmark for <i>HD</i> recordings | • <b>Organic:</b> | under 44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192KHz |
|   | • MP Listen:      | under 44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192KHz |
|   | • Apodising 808:  | under 44.1kHz/48kHz                               |
|   | • Traditional:    | under 44.1kHz/48kHz/88.2kHz/96kHz/176.4kHz/192KHz |

**Note:** Apodising 808 is only available under 44.1kHz and 48kHz i.e. the CD format.

## Explanation and Sonic Characteristics of the Digital Algorithms

**Organic** algorithm for  
*HD* recordings, is  
exclusive to AMR

Output Frequency		Digital Algorithm Technology			Sonic Characteristics	
44.1/48kHz	88.2-192kHz	Minimum Phase <sup>#1</sup>	Apodising <sup>#2</sup>	Soft Roll-Off <sup>#3</sup>	Pros	Cons
Organic*	Organic*	•	•	•	Balanced, full body	-
MP Listen	MP Listen	•	-	•	Clean sound	Slightly cold
Apodising 808	n/a	•	•	-	Lively sound	Slightly dry
Traditional	Traditional	-	-	-	-	Most digital

\*: AMR exclusive, factory recommended.

<sup>#1</sup>: Minimum Phase technology eliminates the Pre-Ringing in the DAC.

<sup>#2</sup>: Apodising technology eliminates the Pre-Ringing in the recording.

<sup>#3</sup>: Soft Roll-Off technology reduces the Post-Ringing magnitude in the DAC.

<b>Organic</b> algorithm reigns supreme; it deals with ALL sources of “ringing”	<b>HD1. Organic</b> – this algorithm is unique to AMR because it was developed as part of the <i>HD</i> Gemini Digital Engine. With a combination of the latest digital technologies: (i) Minimum Phase; (ii) Apodising and (iii) Soft Roll-Off in one “Organic” algorithm, the DP-777 is uniquely able to deal with “pre” and “post” ringing in BOTH the recording and the playback DAC. Please refer to the AMR White Paper in the DP-777 product section on the AMR website for a detailed outline. AMR’s Organic digital algorithm produces the most life-like and analogue reproduction of high-definition music.
<b>MP Listen</b> algorithm deals only with “ringing” in the DAC	<b>HD2. MP Listen</b> – this algorithm with the Minimum Phase and Soft Roll-Off algorithms address only “pre” and “post-ringing” respectively in the DAC. It does not address “ringing” in the recording process. The sonic characteristic is respectable but with some recordings, it may sound somewhat cold/dry, uninviting and lacking the final special ingredient to make it as spellbinding as the “Organic” digital algorithm.
<b>Apodising 808</b> only on the 44.1/48kHz CD format and does not deal with “post ringing”	<b>HD3. Apodising 808</b> – this algorithm is commonly referred to as “Apodising”. It also encapsulates the Minimum Phase technology meaning it addresses “pre-ringing” in the recording and the DAC. The sound is lively but with some recordings, it may sound artificially thin, lacking in body and heft. Note, this filter is only available to the 44.1/48kHz CD format. With such recordings, the 16-Bit Classic DAC set to Bit-Perfect I or II provides a much more natural and ultimately, musically-satisfying performance.
	<b>HD4. Traditional</b> – this algorithm is the most common as it is the textbook implementation. With no attention paid to the common sources of “ringing”, this yields a more sterile and clinical sound. While this may satisfy some, it is the least preferred. Nonetheless, we have included it so that DP-777 listeners may empathise why before the arrival of the DP-777, high-definition music did not received the credit it deserved.

#### 4.4 Classic 16-Bit DAC Algorithms

The DP-777 under the *Classic* 16-Bit DAC offers 2 user-selectable methods of filtering that can be cycled through during playback by pressing the “Filter” button (RD9) on the RC-707.

The Filtering options are:

**CD1. Bit-Perfect I** – this mode directly takes the data extracted from the inputs and re-clocked to generate the music signal. Due to the complete lack of digital or analogue filtering, the treble frequencies are slightly rolled off, making the sound somewhat soft and laid-back. For the same reason, the mid-range and below is very natural and realistic. The reproduction of impulses is completely undistorted. This mode often helps to tame overly-bright recordings.

Bit-Perfect II is the  
benchmark for classic,  
16-Bit recordings

**CD2. Bit-Perfect II** – this mode is identical to Bit-Perfect I but complements this with a special analogue filter which corrects the slight roll-off in the treble frequencies. As a result, the tonality is more accurate in the treble. We therefore recommend this mode as the benchmark with which to enjoy music.

**Note1:** under Bit-Perfect I and Bit-Perfect II modes, the DP-777 is the only processor in the world that can preserve the integrity of the data all the way from the input right through to the output. Hence, it is truly “Bit-Perfect”. These modes were developed by and are exclusive to AMR.

**Note2:** For an Input Sampling Frequency of 88.2kHz or above, under the *Classic* DAC, only Bit-Perfect I is available. This is because the special analogue filter under Bit-Perfect II is not required for these higher sampling frequencies. However, for the best sound from sampling frequencies of 88.2kHz or higher, we recommend the use of the *HD* DAC or just press the “AMR” button for the optimal playback configuration.

#### 4.5 Default Filter Selection

The *HD* and *Classic* DACs each have their own set of filters. In addition to pressing the Filter button (RD9) to make a Filter selection, it is also possible for the user to set a new default filter. This is done by holding down the Filter button for 2-3 seconds. The display will flash “Set as Default” to acknowledge the new default filter.

#### 4.6 AMR Optimal Auto-Select

The “AMR” button will intelligently select the optimal setup

At a press of the AMR button (RD7), the DP-777 will intelligently select the most optimal setup for playback of the current source material.

With a 44.1/48kHz source (e.g. CD transport, files ripped from CDs), the following setup will be automatically selected for optimal playback:

DAC:	<i>Classic</i> DAC
Zero Jitter Mode:	Enabled
Filter:	Bit-Perfect II
Upsampling:	Disabled

With an 88.2/96/176.4/192kHz source (e.g. *HD* files), the following setup will be automatically selected for optimal playback:

DAC:	<i>HD</i> DAC
Zero Jitter Mode:	Enabled
Filter:	Organic
Upsampling:	Disabled



### 5.1 The Computer, Software and Digital Processor

It is relatively quick and easy to connect a Mac/Windows personal computer to the DP-777 and commence playback. However, in order to achieve the very highest sound quality and to extract the maximum performance out of the DP-777, optimisation of the source is strongly recommended.

The pace and change of computer audio software and operating systems is unabated. Therefore, it is not possible to provide a detailed and up-to-date account on all the correct settings for optimal playback.

Instead, the following “Golden Rules” should be followed when setting up a computer as a Computer Audio Source (CAS).

- |   |   |   |
|---|---|---|
| AMR Asio Driver for<br>WINDOWS PCs must<br>be pre-installed and is<br>found on the AMR<br>website | · | Install and select the AMR ASIO driver in the playback software (MS Windows only).  |
|   | · | For each music file, match the computer’s output sampling rate (i.e. the input sampling rate detected by the DP-777) exactly to the source (i.e. the music file). |
|   | · | Disable all upsampling/resampling options on the computer.  |
|   | · | Disable all filtering options on the computer.  |
|   | · | Disable all sound enhancements on the computer.   |
|   | · | Keep the volume control at 100% on the computer.  |

Please refer to: <http://www.amr-audio.co.uk> for the latest AMR ASIO driver (for Windows) and also for the latest optimal computer audio configurations for Mac/Windows setups.

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## Section 6 - Analogue Volume Control (AVC)

### 6.1 Using the Mode Switch

ALWAYS power OFF  
(R10) the DP-777  
before making a  
Mode selection

The DP-777 Digital Processor comes with a built-in Direct-Coupled, Buffered Analogue Volume Control system (AVC).

This means that the DP-777 via the rear panel Mode switch (R6) may be used as:

- i. **Volume+:** DP-777 is both a digital and analogue pre-amplifier (Analogue Inputs 6 & 7 are enabled).  
or
- ii. **Volume:** DP-777 is a digital pre-amplifier (Digital-to Analogue Convertor with the AVC enabled).  
or
- iii. **Bypass:** DP-777 is a standalone Digital-to Analogue Convertor (with the AVC bypassed).

**Bypass** is the default  
setting

Please note that if the DP-777 is set up to use the AVC, it will automatically switch to “Bypass” mode if the volume is set to 0dB or “By” (ie: FULL volume).

Using the Analogue Volume Control System easily surpasses conventional preamplifiers in transparency, dynamics and musicality.

**ALWAYS POWER OFF the DP-777 via (R10) before making a different selection on the Mode switch.**

Should you have any questions, please do not hesitate to contact your AMR distributor/dealer.

Symptom	Possible cause	Solution
No power when the power button is set to ON	<ul style="list-style-type: none"> <li>• poor or no power plug connection at power point</li> <li>• blown fuse at mains plug</li> </ul>	<ul style="list-style-type: none"> <li>• insert the power plug firmly into the AC</li> <li>• change mains plug fuse</li> </ul>
No sound	<ul style="list-style-type: none"> <li>• incorrect audio cable connections</li> <li>• incorrect operation of Amplifier</li> </ul>	<ul style="list-style-type: none"> <li>• ensure the DP-777 is correctly connected</li> <li>• ensure input selector on the amplifier is set to DP-777</li> </ul>
Remote control does not work	<ul style="list-style-type: none"> <li>• batteries in remote control handset have expired</li> <li>• object obscuring remote sensor on the DP-777, no “line of sight”</li> <li>• Interference from fluorescent lights</li> </ul>	<ul style="list-style-type: none"> <li>• replace batteries</li> <li>• remove any objects directly in front of the DP-777</li> <li>• turn off fluorescent lights or redirect the light away from the DP-777</li> </ul>
A “humming” sound can be heard	<ul style="list-style-type: none"> <li>• loose cable connections</li> </ul>	<ul style="list-style-type: none"> <li>• re-attach the loose cables correctly</li> </ul>
Other problems		<ul style="list-style-type: none"> <li>• go to the Contents section and re-trace the procedure or contact your nearest AMR distributor/dealer</li> </ul>

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