

ALCHEMIST

FORSETI

APD21A MkII

PRE

AMPLIFIER

INSTRUCTION

MANUAL

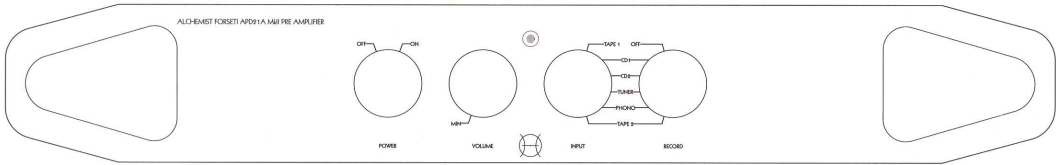
S P E C I F I C A T I O N S

| | |
|-------------------------------|-----------------------------|
| Input Sensitivity (CD1, RCA): | 330 mV, for 1V output |
| Input Sensitivity (CD1, XLR): | 640 mV, for 1V output |
| Input Sensitivity (CD2): | 770mV, for 1V output |
| Gain: | 10dB |
| Maximum Output, unclipped: | 7V RMS |
| Frequency Response @ 3V o/p: | -3dB @ 55kHz |
| Distortion @ 3V o/p, 1kHz: | < 0.01% THD |
| Distortion @ 3V o/p, 10kHz: | < 0.01% THD |
| Residual Noise: | Below measurement threshold |
| Unbalanced Input Impedance: | 15k ohms |
| Balanced Input Impedance: | 33k ohms |
| Unbalanced Output Impedance: | 50 ohms |
| Balanced Output Impedance: | 50 ohms |
| Power Consumption: | 14W |
| Dimensions (W x H x D): | 464mm x 80mm x 380mm |
| Weight, Gross: | 11kg |

Values for external fuse (Never replace with a different value!)

| | |
|----------------------------|-----------------------|
| UK / Europe / Australasia: | 230V: 1A ^T |
| US / Asia: | 115V: 2A ^T |

IN THE UNLIKELY EVENT THAT WE SHOULD DISCOVER SOMETHING THAT WILL IMPROVE ONE OF OUR PRODUCTS, WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT PROIR NOTICE



POSITIONING

The FORSETI Pre amplifier does not need to dissipate any heat and therefore can be placed anywhere within the system. When using with the FORSETI Power amplifier(s), do not stack.

MAINS POWER CONNECTION

The FORSETI Pre is connected to the mains via a Power Supply Unit (PSU).

UK, EUROPE and HONG KONG ONLY: in this version the supplied mains lead is fitted with a three pin mains plug. If you should need to change the plug, use a 13amp plug fused for 13amps and follow these instructions:

BROWN = Live (L): fix to the terminal marked '+' or coloured RED. BLUE = Neutral (N): fix to the terminal marked '-' or coloured BLACK. GREEN/YELLOW = Earth (E): fix to the terminal marked '⏏' or 'E' or coloured GREEN.

It has an external replaceable fuse next to the power input: see 'Specifications' at the back of this manual for fuse values.

Connect the XLR cable from 'OUTPUT: DC' on the back of the PSU to the five pin XLR input on the back of the FORSETI Pre-amp.

The ON/OFF switch is situated on the back of the PSU. When switched ON the blue LED's will light on the fascia of the PSU.

Note that although the FORSETI Power amps have protection relays, it is good practice to always switch the Pre-amplifier on before the Power amplifier(s), and to switch the Power amp(s) off before the Pre-amp.

Be sure that your amplifier is switched off and unplugged before connecting/disconnecting any leads.

POWER AMP CONNECTION

Please note that we do not supply interconnect leads as most people like to choose their own. Unbalanced (RCA) leads should not be more than 3 metres long and shielded, and balanced (XLR) leads can be any length. If you are in any doubt as to which leads to use, please consult your dealer.

Normal Stereo Configuration (using one Power Amplifier):

The FORSETI Pre amp can be used in normal stereo mode with any model of power amp, although we would recommend the FORSETI APD20A Power amp for optimum performance.

If using a lesser another model of power amp, simply connect the 'PRE OUTPUT UNBALANCED' terminals on the FORSETI Pre to the input terminals on the power amp with RCA cables.

See Figure 1.

If using the wonderful FORSETI Power amp, connect the 'PRE OUTPUT BALANCED' terminals on the FORSETI Pre to the 'PRE INPUT BALANCED' terminals on the FORSETI Power with balanced XLR cables.

See Figure 2.

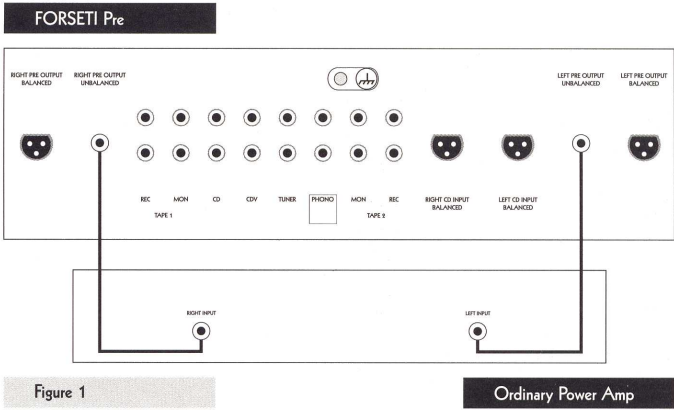


Figure 1

Ordinary Power Amp

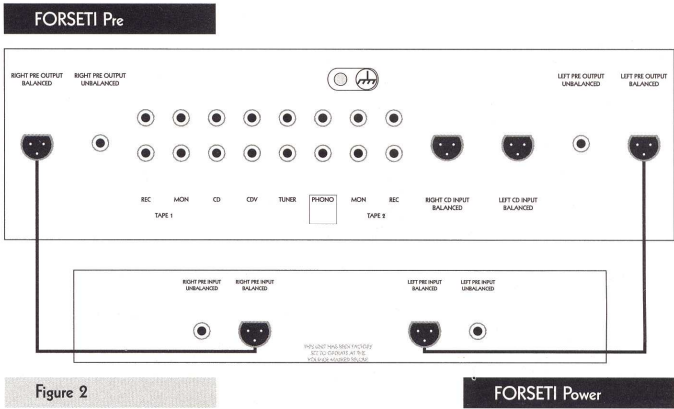
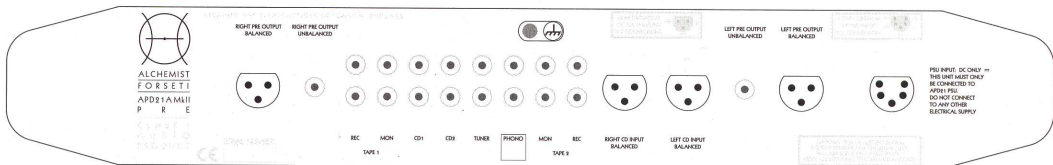


Figure 2

FORSETI Power



Bridged Stereo Configuration (Two FORSETI Power Amps):

FORSETI Power amps can only be used in bridged mode with the FORSETI Pre-amplifier.

To take advantage of this facility, you will need to have special 'Y' balanced cables made by your dealer.

Left Channel:

Connect the Left 'PRE BALANCED OUTPUT' terminal of the FORSETI Pre Amp to both the Left and Right 'PRE BALANCED INPUT' terminals of FORSETI Power Amp 1.

Right Channel:

Connect the Right 'PRE BALANCED OUTPUT' terminal of the FORSETI Pre Amp to both the Left and Right 'PRE BALANCED INPUT' terminals of FORSETI Power Amp 2.

See Figure 3.

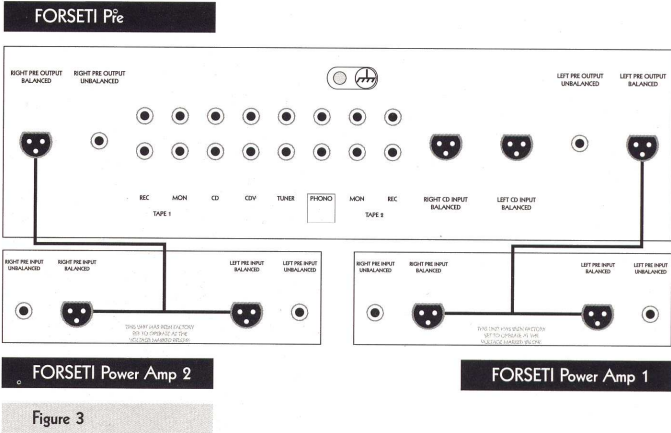


Figure 3

SOURCE CONNECTION

Be sure that your amplifier is turned off when connecting/disconnecting any leads.

As the phono sockets on the FORSETI are gold, we recommend that, where possible, you use gold phono plugs on your interconnect leads. Gold to gold connections will ensure that a good electrical contact is maintained without the need for periodic cleaning. Take care that your input leads are correctly orientated for Left and Right channels. RED is usually Right and WHITE or BLACK is usually Left.

There are six inputs on the FORSETI: CD1, CD2, TUNER, PHONO, TAPE 1, and TAPE 2.

There are also two TAPE outputs.

CD: Note that there are also two XLR balanced inputs for CD. You may use either the balanced or unbalanced connection. If your CD Player or DAC has balanced output, we highly recommend that you use the balanced input for optimum performance. Ask your dealer to recommend suitable balanced interconnects. **Input CD1 can be either balanced or unbalanced, and Input CD2 is unbalanced only.**

PHONO: The FORSETI is normally supplied as a line level only Pre-amplifier. In this case, the PHONO input can be used for any line level source (i.e. CD, Video etc).

However, if you have a turntable you can have a phono module fitted at extra cost. This is a high quality device and is set for Moving Magnet or High Output Moving Coil cartridges. If a PHONO module is fitted this will be indicated by a small sticker under the input on the back panel.

Most turntables will need to be connected to the ground terminal (marked '⏏'). If, when listening to your turntable you can hear a buzzing noise, you probably have an earth loop. You should disconnect the earth lead. If the buzzing persists, contact your dealer.

CONTROLS

As noted earlier, the mains ON/OFF switch is situated on the back of the PSU. Switch this on first, followed by the ON/OFF switch on the front of the amplifier. Ensure that the volume control is set to minimum before switching on.

The FORSETI PSU can be safely left on all of the time, and should only be switched off when you leave your home for more than a couple of days. The controls on the front of the Pre Amp are: VOLUME, INPUT and RECORD.

VOLUME: You will probably find that the maximum usable volume will be attained at approximately two o'clock on the volume control (see Loudspeaker Matching).

INPUT: The Input selector determines the source component to be listened to.

RECORD: The Record selector determines the source component to be recorded on TAPE 1. You can therefore listen to one component while recording from another.

TAPE 2 will record from whichever source the INPUT control is set to.

LOUDSPEAKER MATCHING

The most common misunderstanding in matching amplifiers with loudspeakers is with power handling.

When amplifiers are given a power rating, this refers to the maximum output. The maximum usable output will usually be reached at about 1 - 2 o'clock on the volume control, leaving enough reserve power to deal with transients and crescendo's. If an amplifier is driven beyond this limit it will 'clip' (literally clipping the wave form), resulting in a distorted signal. It is this distortion that usually blows up loudspeakers, and not power. If you are in any doubt as to the suitability of your amplifier to drive your loudspeakers, please consult your dealer.

NOTE: In bridged configuration the FORSETI Power amplifiers can deliver up to **three times** the rated power of one amp.

GENERAL CARE

Cleaning your FORSETI should be done with a clean, dry cloth. Do not use any solvent or silicone based cleaning solutions.

Remember to replace all your packaging in the box and reseal. Keep the box for future transportation of your FORSETI.

Please note that, as with all hi-fi products, there are no user serviceable parts inside and you should refer any problems to your dealer. Removal of the chassis cover may void your guarantee.