

ALCHEMIST

FORSETI

APD20A MkII

POWER

AMPLIFIER

INSTRUCTION

MANUAL

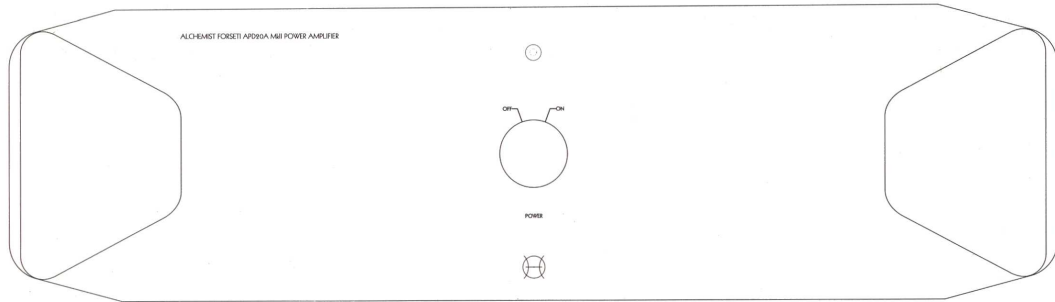
S P E C I F I C A T I O N S

Input Sensitivity (RCA):	1V
Input Sensitivity (XLR):	2.2V
Output @ 1kHz into 8 ohms:	> 153 Watts RMS
Output @ 1kHz into 4 ohms:	> 256 Watts RMS
Bridged Output @ 1 kHz into 8 ohms:	> 409 Watts RMS
Frequency Response @ 3V o/p:	-3dB @ 155kHz
Distortion @ 15V o/p, 1kHz:	< 0.05% THD
Distortion @ 15V o/p, 10kHz:	< 0.1% THD
Residual Noise:	Typically 70 microV
Input Impedance:	8k ohms unbalanced, 25k ohms balanced
Dimensions (W x H x D):	464mm x 140mm x 400mm
Weight, Gross:	21kg

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

UK / Europe / Australasia:	230V: 6AⓇ
US / Asia:	115V: 8AⓇ

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 Power amplifier is a class A/B device, and as such does not dissipate much heat. However, it does require adequate ventilation and should not be kept in an enclosed space. It should be placed on a flat, hard surface, with at least 3-4cm space above and to either side. If you are bridging two FORSETI Power amplifiers do not stack them.

MAINS POWER CONNECTION

The FORSETI Power is connected to the mains with the supplied IEC mains lead.

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 'E' 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.

The ON/OFF switch is situated on the front of the unit. When switched ON the blue LED will light on the fascia of the FORSETI Power. 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.

PRE-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 about which leads to use, please consult your dealer.

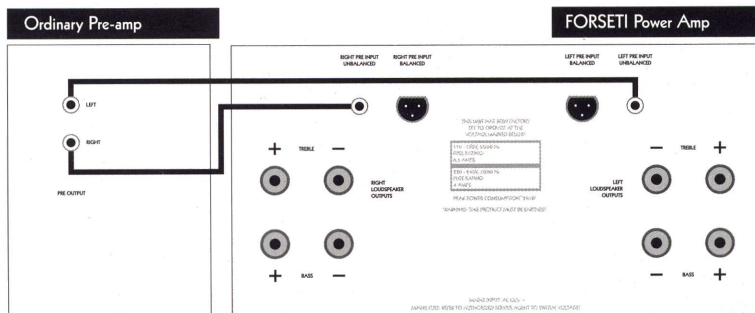


Figure 1

Normal Stereo Configuration (One FORSETI Power amp):

The FORSETI Power amplifier can be used in stereo mode with any model of pre-amp, although we would recommend the FORSETI APD21 Pre-amp for optimum performance.

If using a lesser another model of pre-amp, simply connect the PRE-OUT terminals on the pre-amp to the 'PRE INPUT UNBALANCED' terminals on the FORSETI Power with RCA cables. See Figure 1.

If using the wonderful FORSETI Pre-amp, connect the 'PRE OUTPUT BALANCED' terminals on the pre-amp to the 'PRE INPUT BALANCED' with balanced XLR cables. See Figure 2.

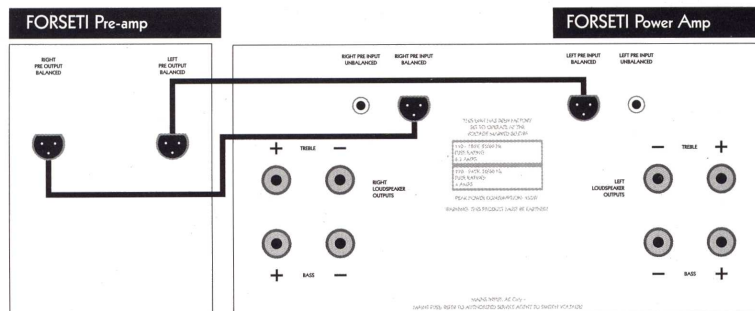


Figure 2

Bridged Stereo Configuration (Two FORSETI Power Amps):

FORSETI Power amplifiers can only be used in bridged mode with the FORSETI APD21 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.

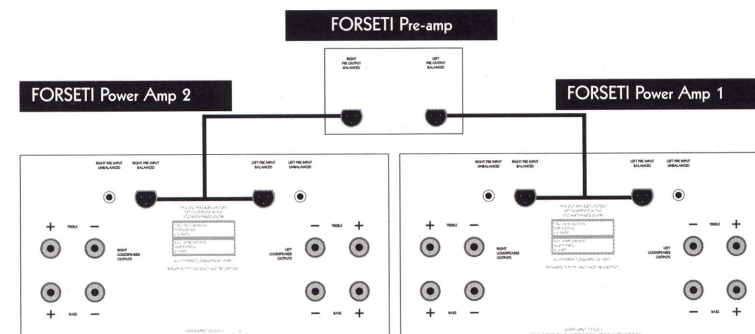


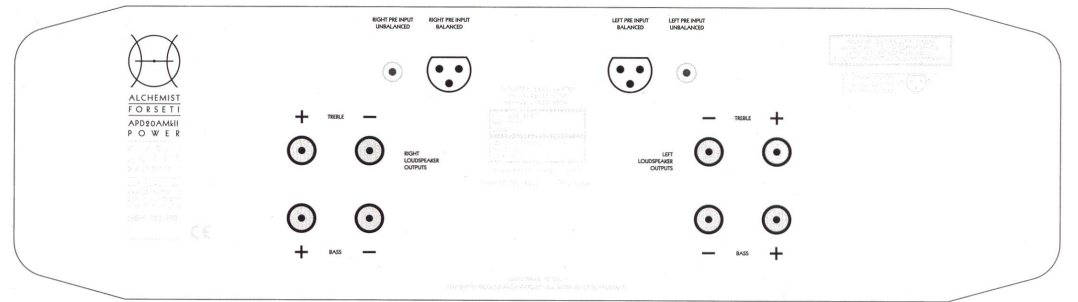
Figure 3

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.



LOUDSPEAKER CONNECTIONS

Please note that, in line with new IEC regulations, we have provided touchproof loudspeaker terminals. The terminals will accept bare wires or banana plugs by unscrewing the outer casing (make sure that when connecting with bare wires the positive and negative wires do not touch, or your amplifier and/or loudspeakers could be damaged), inserting the wire or plug and tightening the casing.

Always ensure that correct polarity is maintained: i.e. that the positive output from the amplifier is connected to the positive input on the loudspeaker. Incorrect polarity will make the system out of phase, resulting in poor stereo imaging and lack of deep, coherent bass.

Normal Stereo Configuration:

Connect the top output terminals of the FORSETI Power amp to the input terminals of your loudspeakers. See Figure 4.

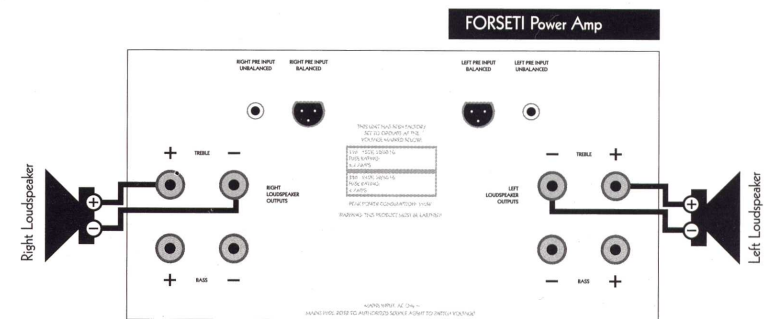


Figure 4

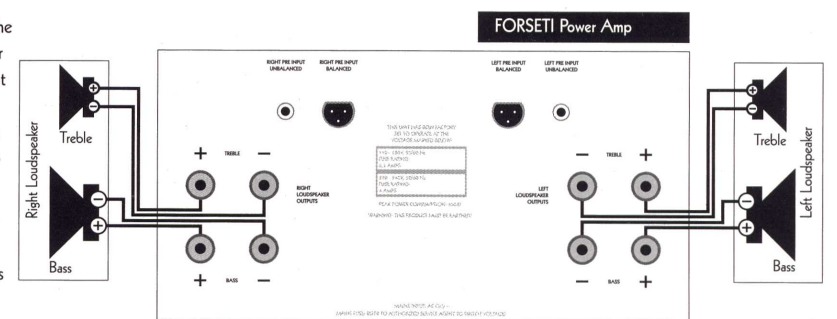


Figure 5

Normal Bi-Wired Stereo Configuration:

Connect the top output terminals of the FORSETI Power amp to the treble input terminals of your loudspeakers.

Connect the bottom output terminals of the FORSETI Power amp to the bass input terminals of your loudspeakers. See Figure 5.

Bridged Configuration:

Connect the top positive '+' output of the Right Loudspeaker Output of FORSETI Power Amp 1 to the positive input of the left loudspeaker.

Connect the top positive '+' output of the Left Loudspeaker Output of FORSETI Power Amp 1 to the negative input of the left loudspeaker.

Connect the top positive '+' output of the Right Loudspeaker Output of FORSETI Power Amp 2 to the positive input of the right loudspeaker.

Connect the top positive '+' output of the Left Loudspeaker Output of FORSETI Power Amp 2 to the negative input of the right loudspeaker. See Figure 6.

Bridged Configuration, Bi-wired speakers:

Use the same configuration as for normal bridging, but connect the top positive terminals to the treble units and the bottom positive terminals to the bass units. See Figure 7.

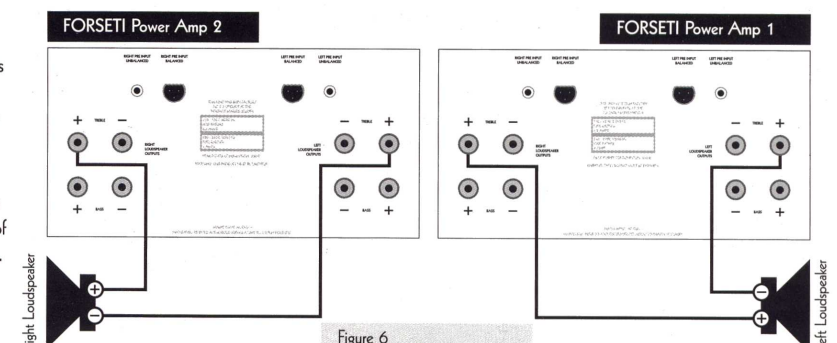


Figure 6

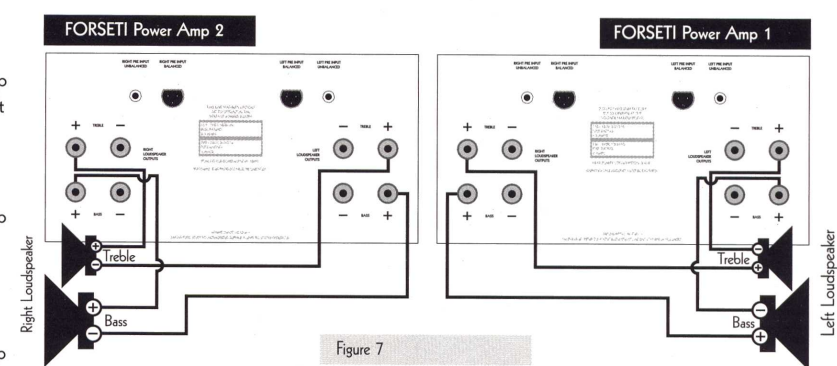


Figure 7

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.