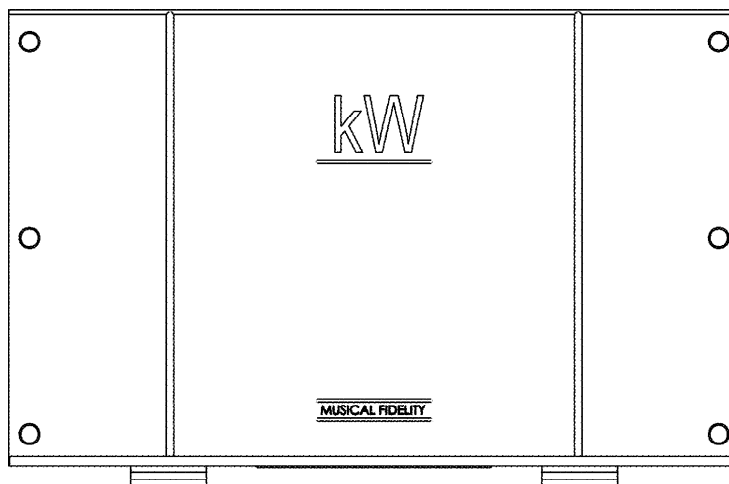


Tri-Vista

MONOBLOC POWER AMPLIFIER



INSTRUCTIONS FOR USE

*Thank you for purchasing the Musical Fidelity
Tri-Vista Power Amplifier.*

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

*Aesthetically, the Tri-Vista Power amplifier is a perfect match for the
Tri-Vista Preamplifier and Tri-Vista SACD player which are part of
our 20th Anniversary series.*

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

*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.*

MUSICAL FIDELITY

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 this 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 Tri-Vista Power 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.

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 Tri-Vista Power amplifier 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 Tri-Vista Power amplifier 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, flower vases 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 heat sources such as radiators, direct sunlight or other equipment. The case of this amplifier can run at high temperatures - operate the unit in a well ventilated area, and do not touch the side heatsink fins after periods of use at high output power.

Do not remove covers or try to gain access to the inside. There are no internal user adjustments. Refer all service work to an authorised Musical Fidelity agent.

NOTE: Unauthorised opening of the equipment will invalidate any warranty claims.

There are fuses inside the Tri-Vista amplifier. In the unlikely event that one blows, refer the unit to your audio dealer. Do NOT try to replace the fuse yourself as this will invalidate the warranty.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

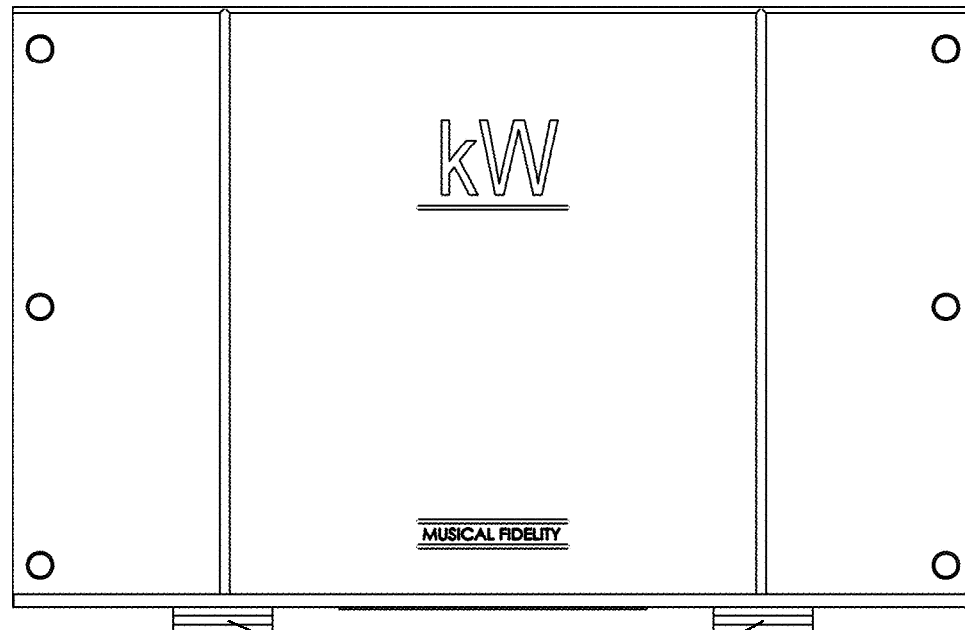
The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the Tri-Vista 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.

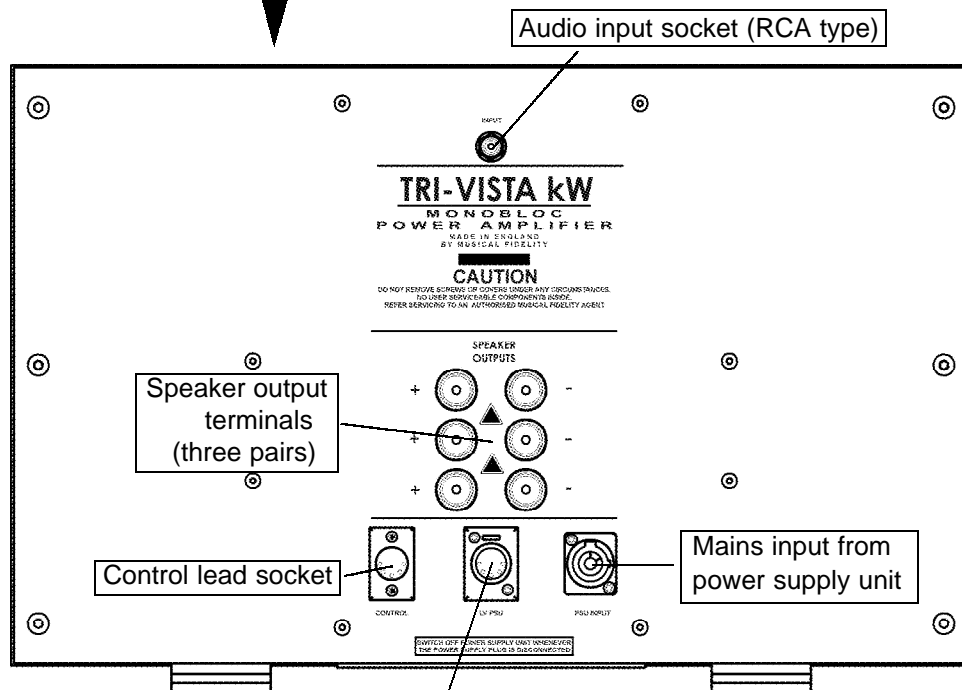
CONNECTIONS AND FACILITIES - MAIN UNIT



Illuminated feet with multi-colour indicator LEDs

Front panel

Back panel



Audio input socket (RCA type)

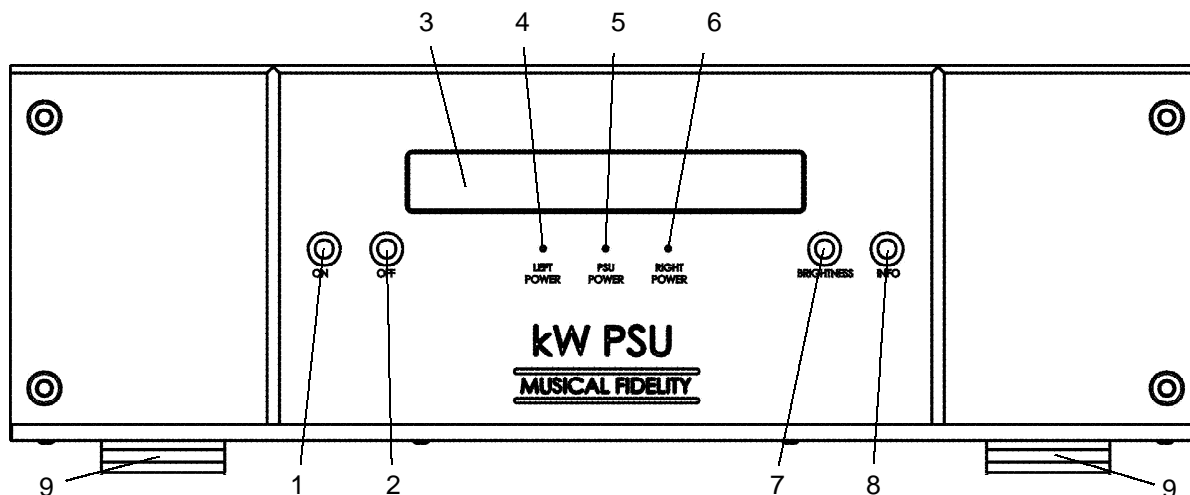
Speaker output terminals (three pairs)

Control lead socket

Mains input from power supply unit

Power supply lead input - low voltage

CONNECTIONS AND FACILITIES - POWER SUPPLY

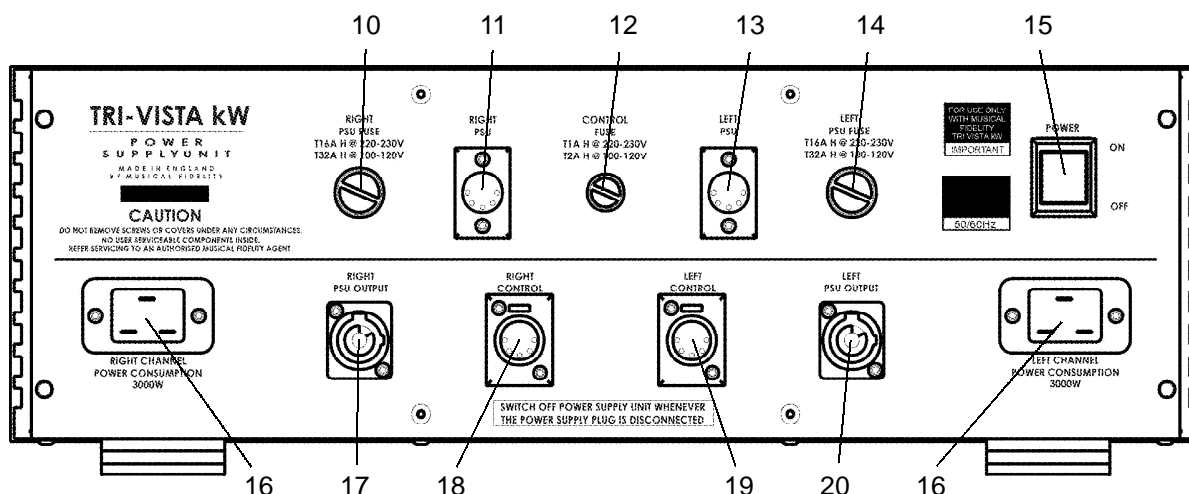


Power supply unit front panel

- 1 Power-on button
- 2 Power-off button
- 3 Fluorescent display - see page 7
- 4 Left power indicator LED
- 5 PSU power indicator LED
- 6 Right power indicator LED
- 7 Display brightness button - see page 7
- 8 Display information change button - see page 7
- 9 Illuminated feet with multi-colour indicator LEDs

Power supply unit back panel

- 10 Right channel PSU fuse
- 11 Right PSU low voltage output
- 12 Control circuit fuse
- 13 Left PSU low voltage output
- 14 Left channel PSU fuse
- 15 Mains switch
- 16 Mains inlets - 16 Amp IEC type (two)
- 17 Right PSU switched mains output
- 18 Right control lead socket
- 19 Left control lead socket
- 20 Left PSU switched mains output



CONNECTIONS and OPERATION

AUDIO CONNECTIONS

Either of the two Tri-Vista Power amplifiers can be used with a preamplifier or line level source which has a volume control. We highly recommend the matching Tri-Vista preamplifier available from Musical Fidelity.

Connect the left and right audio outputs from your pre-amplifiers to the RCA input sockets on each of the two Tri-Vista power amplifiers marked **INPUT**, using good quality co-axial audio leads (not supplied).

LOUDSPEAKER CONNECTIONS

Using the accessory speaker leads supplied, connect your loudspeakers to the terminals on the back panel marked **SPEAKER OUTPUTS**. Any of the three pairs of terminals provided can be used. The wiring must be “in phase”, namely, the + and - terminals connected to the left and right speakers the same way round.

Warnings:

1:

The Tri-Vista Power amplifier has a very large output capability. All input, output and power connections must therefore be reliable, and made with the mains power switched OFF to prevent possible damage to your loudspeakers.

2.

The negative (black) terminal is part of a “bridged” circuit, and therefore has live speaker output. It must not be connected to any chassis or earth terminal.

POWER CONNECTIONS

There are three accessory interconnection leads supplied for each of the two monobloc amplifiers, two leads for low voltage and one thick armoured mains cable. Connect one set of leads between the power supply unit and the left channel amplifier sockets, and the other set from the power unit to the right amplifier sockets. Left and right channel destinations must be as shown by the panel socket markings.

Plug the two accessory IEC mains leads into the rear panel sockets of the power supply unit, then the other ends into convenient wall outlets.

BEFORE SWITCHING ON

Turn the volume control on your preamplifier to minimum, and switch on its power.

OPERATION

Press the **POWER** rocker switch on the back panel of the power supply unit. A single blue **PSU POWER** LED on the front panel will light to confirm that power is applied, but the system will not operate, as control is now from the front panel.

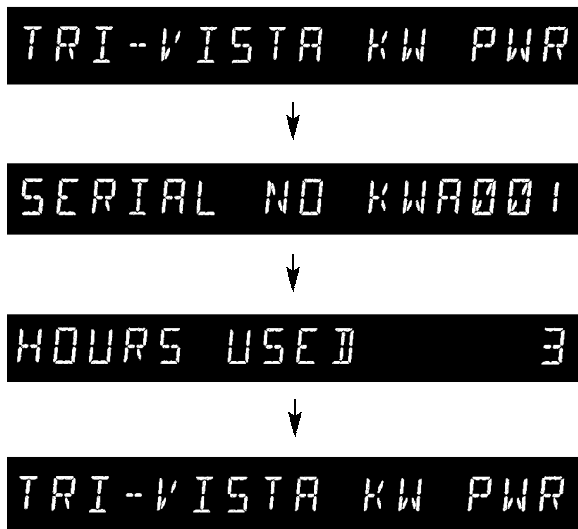
To switch on, press the **ON** button on the front panel. One amplifier will power up first, then after a short delay the other channel, confirmed by left and right blue power LEDs on the front panel.

LEDs in the feet of the amplifiers and power supply will also light red for about six seconds, indicating that all audio outputs are muted. Muting is then disabled, and feet illumination fades over approximately fifteen seconds to amber, showing that your Tri-Vista Power amplifiers are now ready for use.

continued . . .

OPERATION (contd.) & FLUORESCENT DISPLAY

The fluorescent display then shows the following automatic sequence:



Select the required audio input source on your pre-amplifier, and adjust the volume control to obtain the preferred sound level.

After a period of about 35 minutes, the LED feet colour fades to blue, confirming that the amplifiers are fully warmed up.

Pressing the **OFF** button turns off the display and power to both amplifiers.

AUTOMATIC FAULT DETECTION

If there is a fault with either left or right channel, or the cables are not connected correctly, that channel will shut down automatically.

There are sensors in each channel to detect adverse operating conditions. Under these conditions the display shows the word **CLIPPING** and a number between 1 and 240 depending on severity. If this number reaches 240, both amplifiers will shut down.

Similarly, if a major overload is detected by either amplifier, both amplifiers will shut down immediately.

BRIGHTNESS

Pressing the **BRIGHTNESS** button on the power supply front panel cycles the fluorescent display through five brightness levels.

DISPLAY INFORMATION

Each time the **INFO** button on the power supply front panel is pressed, the display mode changes between three states. Note that the display still functions if power to the amplifiers has been switched off by the **OFF** button.

When the button is pressed for the first time after the system has been switched on, the display shows the total number of hours the amplifiers have been powered :



Note :

After an initial "burn-in" period of 168 hours in the factory, this counter has been set to zero.

Press again ...

... the serial number is shown :



Press again ...

... the model number is shown :



Press again ...

... the display reverts to its initial state :

PROBLEMS ?

Basic problem-solving with an amplifier is similar to troubleshooting any other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following:

<i>Problem</i>	<i>Possible Cause</i>	<i>Remedy</i>
No power when MAINS POWER switch is operated	Mains plug or plugs not inserted fully into rear socket	Plug in securely
No sound	Tape monitor function has been selected on the pre-amplifier	Switch off tape monitor at the pre-amplifier
	Wrong connections between pre-amplifier and the Tri-Vista Power	Check audio input lead connections
	Speakers not connected, or incorrectly wired	Check speaker cables
The sound is not precise, lacking bass and stereo image	Speakers are connected out of phase, i.e. connections to one speaker (+ and -) are reversed	Ensure method of connection is the same for left and right speakers

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 Tri-Vista Power amplifier yourself, as this will invalidate the guarantee.

Tri-Vista Power Amplifier



SPECIFICATIONS :

Output voltage, RMS peak	92 Volts 20Hz to 20kHz 130 Volts
Power output, single or both channels driven	1000 Watts per channel into 8 Ohms (24dBW) 1800 Watts per channel into 4 Ohms 3000 Watts per channel into 2 Ohms
Peak output current	± 200 Amps
Damping factor	205
Output devices per channel	40
Total Harmonic Distortion + noise	0.005% at 1kHz up to 80% power, into 8 Ohms < 0.005% 20Hz to 20kHz at 12.5 Watts into 8 Ohms
Intermodulation distortion	0.002% at 12.5 Watts into 8 Ohms
Frequency response	20Hz to 20kHz ± 0dB 10Hz to 100kHz + 0 / -1dB
Audio gain	30dB (31.5 times) nominal
Input impedance	31K Ohm
Input sensitivity for full power output into 8 Ohms	2.92 Volts
Signal / noise ratio, reference full power output	> 124dB "A"- weighted
Input	1 RCA connector per monobloc
Outputs	2 monobloc channels via 3 pairs of speaker binding posts per channel,
Power requirements	100 / 115 / 230V AC, 50 / 60Hz (factory preset) 3000 Watts maximum with 8 Ohms load 160 Watts idle per channel
Dimensions	<div> Main units 483 mm, 19 inches wide 318 mm, 12.5 inches high including feet 450 mm, 17.7 inches deep including terminals </div> <div> Power supply 483 mm, 19 inches wide 168 mm, 6.6 inches high including feet 374 mm, 14.7 inches deep including sockets </div>
Weight	<div> Main units, each 43 kg, 94.8 lbs unit only, unboxed 61 kg, 135 lbs in shipping carton </div> <div> Power supply 42.7 kg, 94.1 lbs unit only, unboxed 48.2 kg, 106 lbs in shipping carton </div>
Standard accessories	IEC mains leads - 16 Amp type : two, 2.4 metres (94.5 inches) each Switched mains interconnection leads : two, 1.2 metres (47.3 inches), and 0.7 metres (27.5 inches) Low voltage interconnection leads : two, 1.2 metres (47.3 inches), and 0.7 metres (27.5 inches) Control interconnection leads : two, 1.2 metres (47.3 inches), and 0.7 metres (27.5 inches) Loudspeaker leads : two, twin conductors, 3 metres (118 inches) each



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

CAUTION

Read this *BEFORE* connecting your kW Amplifier - it could save your loudspeakers.

Make sure the **kW** is turned OFF for at least five minutes before connecting or disconnecting it, or making any other changes, for example changing loudspeaker cables.

Turning the **kW** OFF will protect your loudspeakers from the destructive power of an accidental 5000 watt peak.

Because the **kW** will NOT CLIP, any inadvertent electrical noise will be hugely amplified by the **kW**. As the **kW** can deliver 5000 watt peaks, a mistake could vaporise the internals of your loudspeakers.

At the factory, we ALWAYS switch off the **kW** for at least five minutes before we change anything. So should you. You have been warned . . .

Caution

Turn off the **kW** amplifier at least five minutes before you connect, disconnect or make any changes.

To explain further:

The RMS power capacity of the **kW** is far higher than the theoretical short-term peak current of an ordinary amplifier. Used wrongly, this power can vaporise your speakers.

If you make an error when changing the interconnects, an *ordinary* power amplifier will try to deliver its peak power and current into the loudspeaker. This might only last for a few micro-seconds, not long enough to damage a properly designed loudspeaker.

The **kW**, however, behaves differently when an error is made. As its RMS power is much higher than almost any other amplifier's peak rating, the **kW** will deliver its peak power for as long as the problem exists. If you react quickly, you may pull out the offending cable in half a second. A small error, but more than enough to vaporise your loudspeakers, because the **kW** will release between 1000 and 5000 watts peak into them. One mistake, and it's bye-bye speakers, so . . .

To protect your loudspeakers, ALWAYS turn the **kW** OFF before changing any interconnect, or doing anything which might cause the amplifier to deliver its full peak power and current into your loudspeakers. At Musical Fidelity, we treat the **kW** with extreme respect. **When we change interconnects, or do any form of maintenance, we ALWAYS TURN IT OFF at least five minutes before touching anything.**

The **kW** will deliver truly astonishing dynamics and control into any loudspeakers, but because of its stupendous power, voltage and current ratings, you must think before acting.

When working with the **kW**, we always "think fast, act slow", and so far, we haven't blown any speakers. If you are careful, your speakers should be fine.