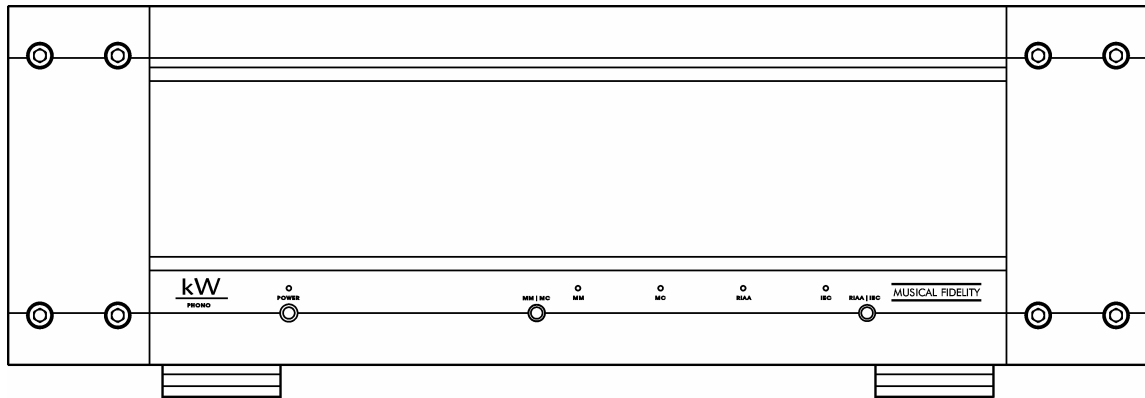


kW Phono

PHONO PREAMPLIFIER



INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity kW Phono preamplifier.

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

Aesthetically, the kW Phono is a perfect match for the kW 750 Power Amplifier, kW Hybrid Line Level Preamplifier and kW SACD Player.

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

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 the 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:

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 kW Phono 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 kW Phono 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 preamplifier, for example, a flower vase 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 preamplifier is dangerous, and may cause electric shock or fire hazard.**

Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.

Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent.

Note: Unauthorised opening of the equipment will invalidate any warranty claim.

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

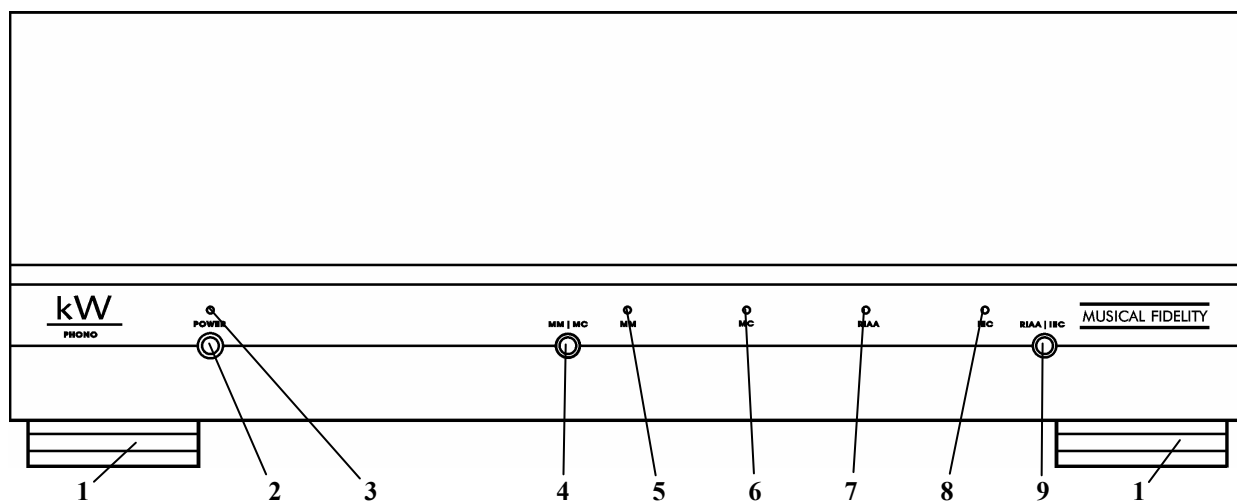
The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of your audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help your dealer identify the kW Phono preamplifier 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

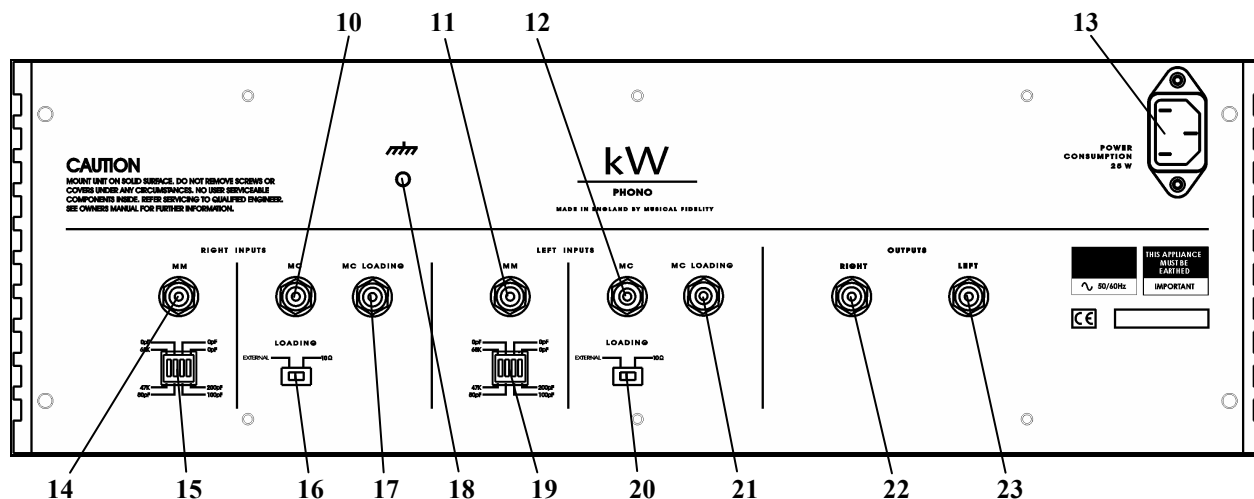


FRONT PANEL

- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Illuminated feet with multi-colour indicator LEDs (see page 6) 2 POWER mains on/off push switch 3 Power on indicator LED 4 Moving Magnet / Moving Coil input selection button (see page 6) | <ul style="list-style-type: none"> 5 Moving Magnet input indicator LED 6 Moving Coil input indicator LED 7 RIAA compensation indicator LED 8 IEC compensation indicator LED 9 RIAA / IEC compensation selection button (see page 6) |
|---|---|

REAR PANEL

- | | |
|---|---|
| <ul style="list-style-type: none"> 10 Moving Coil input socket - right channel 11 Moving Magnet input socket - left channel 12 Moving Coil input socket - left channel 13 Mains inlet socket - IEC type (10 Amp) 14 Moving Magnet input socket - right channel 15 Moving Magnet impedance selection switch - right channel 16 Moving Coil LOADING selection switch - right channel 17 Moving Coil LOADING socket - right channel | <ul style="list-style-type: none"> 18 Phono chassis earth terminal 19 Moving Magnet impedance selection switches - left channel 20 Moving Coil LOADING selection switch - left channel 21 Moving Coil LOADING socket - left channel 22 Audio output socket - RIGHT channel 23 Audio output socket - LEFT channel <p>(see page 5 for connection and switch setting details)</p> |
|---|---|



CONNECTIONS

Pickup loading adjustments and all input, output and power connections should be made with the mains power switched OFF.

INPUT CONNECTIONS

The rear panel of your kW Phono pre-amplifier has two pairs of RCA phono input sockets, one pair for left and right moving magnet (MM) and the other pair for moving coil (MC) pickup cartridges. (See also page 6, MM / MC switching).

The switches and loading sockets located on the rear panel are for optimising phono performance as follows :

MC (only):

Input loading can be changed to suit an individual pickup cartridge by sliding the **LOADING** switch underneath the **PHONO MC** input socket between the 10 Ohm internal and **EXTERNAL** loading options as required.

In the **EXTERNAL** position, loading impedance can be set by inserting the preferred accessory plugs into the left and right **LOADING** sockets.

The unit is supplied with five sets of load plugs as standard accessories. There are two each (one per channel) in 100, 200, 500, 1K and 5K Ohm options, and are marked on the sides with their resistance value.


Simply select and insert the loading plugs which suit your pickup manufacturer's recommendation.

MM (only):

A four-way switch underneath the **PHONO MM** input socket is for matching the characteristics of your phono pickup and lead to the kW Phono. When all the switches are off (up), the input impedance is 68K Ohms in parallel with 47pF capacitance.

When each individual lever is moved downwards, loading of the MM phono input circuit changes as shown by adjacent graphics on the rear panel (see also specification on page 7). If you are not sure which combination to select, please consult your dealer.

PICKUP ARM EARTHING

Some turntables or pickup arms are fitted with an extra wire for chassis earthing. This should be connected to the chassis earth terminal  on the back panel.

(Note : this is not a safety earth).

OUTPUT CONNECTIONS

The kW Phono has two line level audio outputs from RCA sockets on the back panel, marked **OUTPUTS**. Using good quality RCA co-axial audio leads, connect the left and right outputs to the preamplifier input of your audio system.

OPERATION

BEFORE SWITCHING ON

Plug the accessory IEC mains lead into the rear panel socket, then the other end into a convenient wall outlet.

STARTING

Press the POWER switch button on the preamplifier front panel - the blue LED just above the button will light indicating that power is applied to the unit.

LEDs in the support feet will also light red for about six seconds, indicating that both left and right audio outputs are muted.

Muting is then disabled, and feet illumination then fades over approximately fifteen seconds to yellow, showing that your kW Phono is now ready for use.

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

PHONO MM / MC SWITCHING

Your kW Phono preamplifier has independent circuits for moving magnet (MM) or moving coil (MC) phono pickups.

To obtain the preferred input, press the MM / MC selector button on the front panel. A corresponding blue indicator on the front panel will light to confirm your selection. Each press of the button changes over input between the two options.

CAUTION - only operate this function at low volume setting.

RIAA / IEC COMPENSATION

As a further refinement, the phono pickup characteristic can be adjusted to suit either RIAA or IEC compensation curves.

Historically, the original RIAA curve defined the low audio frequency limit as 20Hz. The later IEC standard specifies frequency response down to 10Hz to restrict possible turntable rumble, or the effect of a warped record.

Each time the RIAA / IEC button on the front panel is pressed, the phono pickup stage is switched alternately between the two options. A corresponding blue indicator on the front panel lights up to confirm your choice.

kW Phono PREAMPLIFIER

SPECIFICATIONS

Output :	Voltage RMS, maximum Impedance Frequency response deviation from RIAA	> 43 Volts 32 Ohms 20Hz to 20kHz ± 0.1 dB
Input :	Total harmonic distortion + noise, 20Hz to 20kHz Input sensitivity for 300mV RMS output Input impedance	< 0.012% (MM, 10 Volts output) 2.9mV Moving Magnet, 500 μ V Moving Coil MC : Switched : 10 Ohms internal, or user adjustable by external RCA-type loading plug. Without plug 47k Ohms. Input capacitance 470pF. MM : All switches up : 68k Ohms in parallel with 47pF, Switch no. 1 down : 47k Ohms + 47pF, Switch no. 2 down : extra 50pF added, Switch no. 3 down : extra 100pF added, Switch no. 4 down : extra 200pF added
	Overload margin Channel separation Channel balance error Signal / noise ref. 1Volt RMS output	42dB above rated input at 1kHz (MM) > 64dB 20Hz to 20kHz < 0.5dB typical > 78dB Moving Magnet ("A"-weighted) > 75dB Moving Coil ("A"-weighted)
	Frequency response reference IEC, RIAA - see graph	
Input sockets :		2 phono Moving Magnet via RCA connector 2 phono Moving Coil via RCA connector
Output sockets :		2 RCA connectors for line level output
Power requirements :		115 / 230 Volts or 100 V AC 50 / 60Hz (factory preset) 25 watts maximum
Dimensions :		483mm, 19 inches wide 167mm, 6.6 inches high (including feet) 456mm, 18 inches deep (including buttons and rear terminals)
Weights :		18.15Kg, 40 lbs unit only, unboxed 23Kg, 51 lbs in shipping carton
Standard accessories :		IEC mains lead - 10 Amp type Moving coil pickup loading plugs, (2 each) of 100, 200, 500, 1K and 5K Ohms resistance



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