

*analog disc (MC/MM cartridge) (continued)*

setting the load

As shipped from the factory your FET nine/e preamplifier is set for a cartridge load of 47,000 Ohms impedance and 50 picoFarads capacitance (all internal adjustment switches in the off position). These values are generally suitable for "moving magnet" cartridges - typical of the high output type previously described.

As a group moving coil (low output) cartridges are relatively insensitive to their capacitive load but each model cartridge will realize it's optimum performance into a specific load impedance.

Conversely, moving magnet (high output) cartridges as a group are designed to work into a load impedance of 47,000 Ohms but each model cartridge will realize its optimum performance with a specific input capacitance.

TO CHANGE LOAD SETTINGS:

If you find it necessary to re-set the load characteristics of your preamplifier employ the following procedure.



**IMPORTANT! DO NOT OPEN YOUR PREAMPLIFIER WHILE IT'S POWER SUPPLY IS ATTACHED TO AN AC MAINS. DO NOT ALTER LOAD SETTINGS WHILE YOUR SYSTEM IS OPERATING.**

AFTER DISCONNECTING the preamplifier power supply from it's AC mains remove the top cover of the preamplifier with the hex wrench supplied in your owner's pack.

Locate the miniature switch block assembly mounted on the carrier board at the left side of the preamplifier when viewed from the front. The switches of the assembly are used to set the impedance and capacitance characteristics for both input channels. Each switch actuator contains a rounded depression which allows it to be moved with a small implement such as the tip of a ball point pen.

The switches of each block are numbered 1 through 8 with switch 1 located nearest the front of the preamplifier. The "on" position is toward the same side of the assembly for every switch, and this "on" position is identified.

selecting impedance and capacitance:

Switches 1 through 4 effect the left channel. Switches 5 through 8 effect the right channel. THE SETTINGS FOR BOTH CHANNELS SHOULD BE IDENTICAL.

Select the appropriate impedance and capacitive values for both channels of the cartridge in use by moving the required switches to the "on" position (to the left when the switches are viewed from the front of the preamplifier) in accordance with the "on" values specified in the table below. The switch positions below are as seen from the front of the preamplifier.

	8	=	200 pF
	7	=	100 pF
	6	=	100 Ω
right channel	5	=	47.5 Ω
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left channel	4	=	47.5 Ω
	3	=	100 Ω
	2	=	100 pF
	1	=	200 pF

all switches off: 47,000 Ohms, 50 picoFarads/ch.  
all capacitance (pF) switches on: 250 pF/ch.  
all impedance (Ω) switches on: 32.2 Ω /ch.

It is not necessary to have an exact match to the cartridge load specifications in order to realize top performance. Simply select the closest available value to that recommended in the cartridge instruction sheet.



**REPLACE AND SECURE THE PREAMPLIFIER COVER BEFORE RECONNECTING ITS POWER SUPPLY TO THE AC MAINS. DO NOT OPERATE YOUR PREAMPLIFIER WITH IT'S COVER REMOVED.**

**IMPORTANT:** Be sure the switches of both the left and right channels are equivalently set before closure or you will find it necessary to re-open the preamplifier and correct the settings.

Remember, in all cases the capacitive load actually realized for a given switch position will be that specified above plus the capacitance inherent in the signal cables connecting the turntable to the amplifier. This capacitance is generally in the range of 100 pF. The exact value may be found in the specification sheet for the turntable or interconnects you are using.

In large measure the final impedance and capacitive values you select may ultimately be the result of personal preference.