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# ortofon

## MOVING COIL AMPLIFIER MCA-76

Congratulations with your new ORTOFON MOVING COIL AMPLIFIER MCA-76.

This amplifier is specially designed for use together with cartridges of the moving coil types.

All the parts involved are specially selected to ensure a very high performance of the amplifier, and to guarantee you a perfect operation for many years.

On the following pages we will explain how to use this amplifier.

The output voltage of a moving coil cartridge is very low compared with the output voltage of a cartridge of the magnetic type. Trying to connect a moving coil cartridge directly to the inputs of a high fidelity amplifier will therefore result in reduced signal to noise ratio and it will be impossible to get the full utilization of the hi-fi amplifier.

Therefore it is necessary to amplify the signal from a moving coil cartridge to a suitable level before connecting it to the phono inputs.

For that purpose the MCA-76 is the best choice.



## FEATURES

### LOW NOISE

The amplifier circuit is designed to have an absolute minimum of noise output, — just 5 dB above the theoretical noise limit.

### LOW DISTORTION

The distortion figures are kept down at a minimum.

### SUBSONIC FILTER

A built-in subsonic filter attenuates sound below 13 Hz. These signals below the audible range but can lead to speaker damage.

### SWITCHABLE FILTER

A switchable filter is employed in order to change the frequency response to two-channel or four-channel (CD-4) mode.

### BY-PASS SWITCH

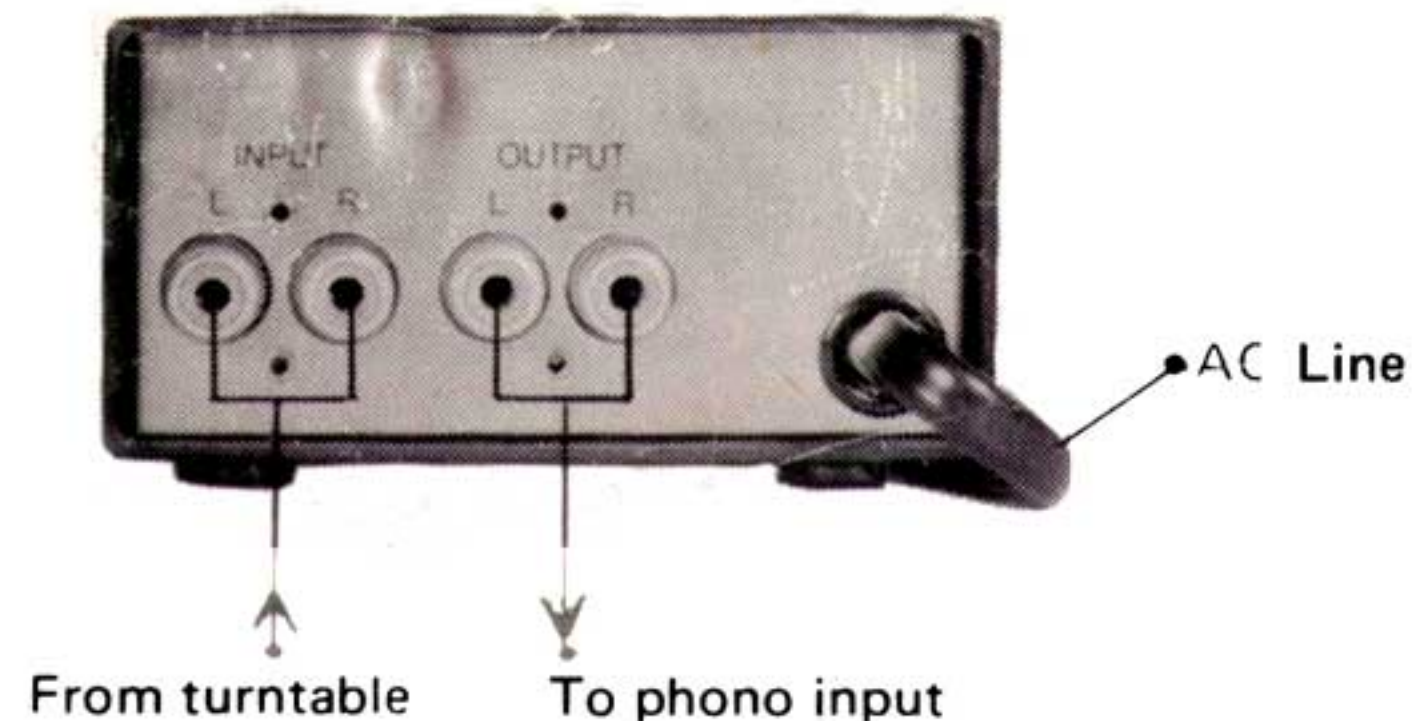
A switch function makes it possible to by-pass the amplifier when using magnetic cartridges.

## CONNECTION TO THE TURNTABLE AND AMPLIFIER

The MCA-76 is very simple to connect to your high fidelity system.

Connect the output leads from the turntable to the two input jacks on the rear end of the amplifier, and connect the supplied audiocable between the corresponding output jacks and the phono input jacks of your Hi-Fi-amplifier.

After having connected the line plug to the line socket and switched on the line voltage the MCA-76 will be ready for operation.





## SWITCH FUNCTIONS



Leave in unpressed position for normal use. Press for CD-4 use.

When pressed, the amplifier is operating (red light on). In unpressed position the input jacks are connected directly to the output jacks.

Red light indicates that the amplifier is in operation.

## WARRANTY

Your Ortofon moving coil amplifier MCA-76 is warranted to be free from electrical and mechanical defects for a period of one year after purchase. However, this warranty does not apply for defects caused by forcible abuse of the amplifier.

In the event of returning the amplifier to Ortofon through your dealer for testing or repair, make certain that it is packed so that it cannot be damaged in transit (a situation for which Ortofon cannot assume responsibility).

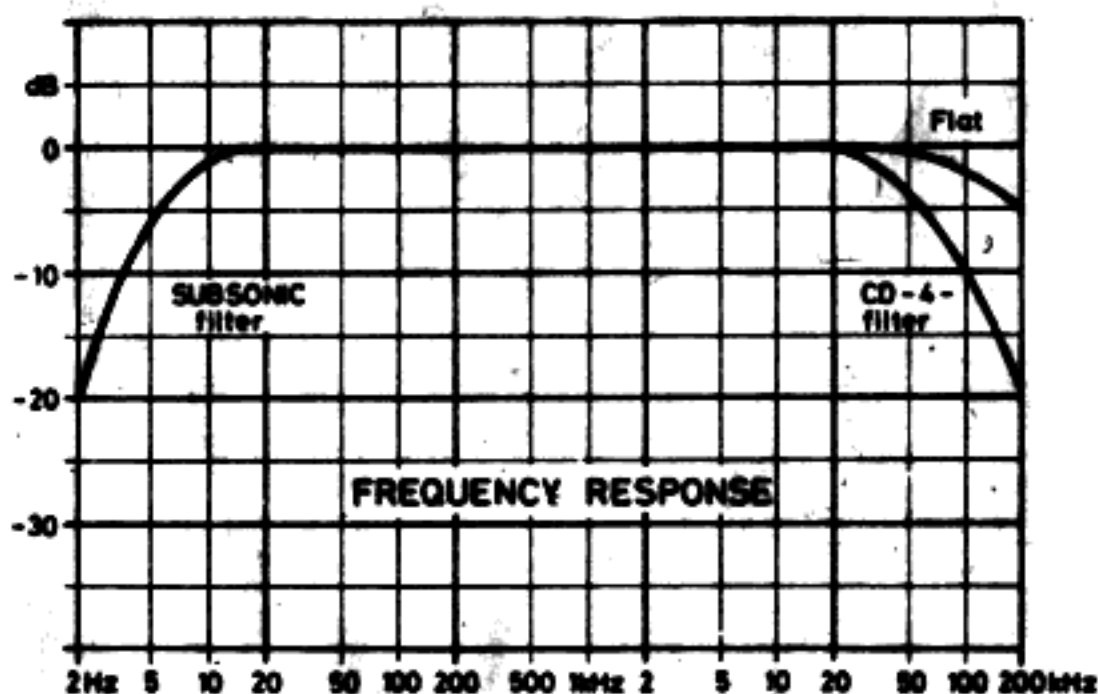
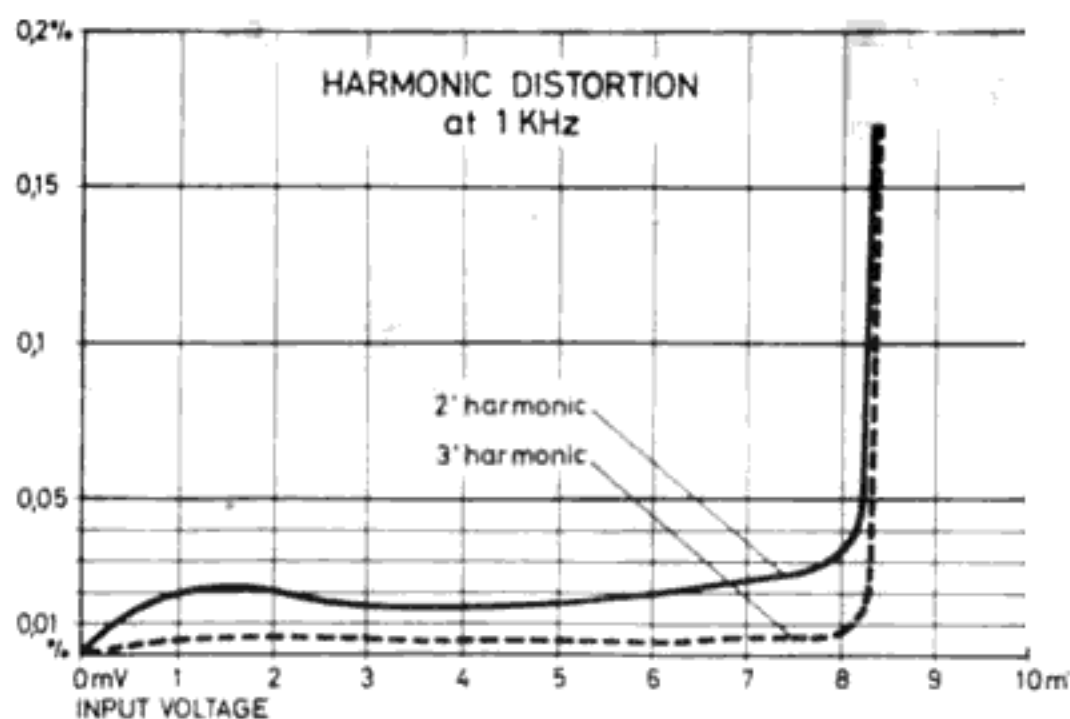
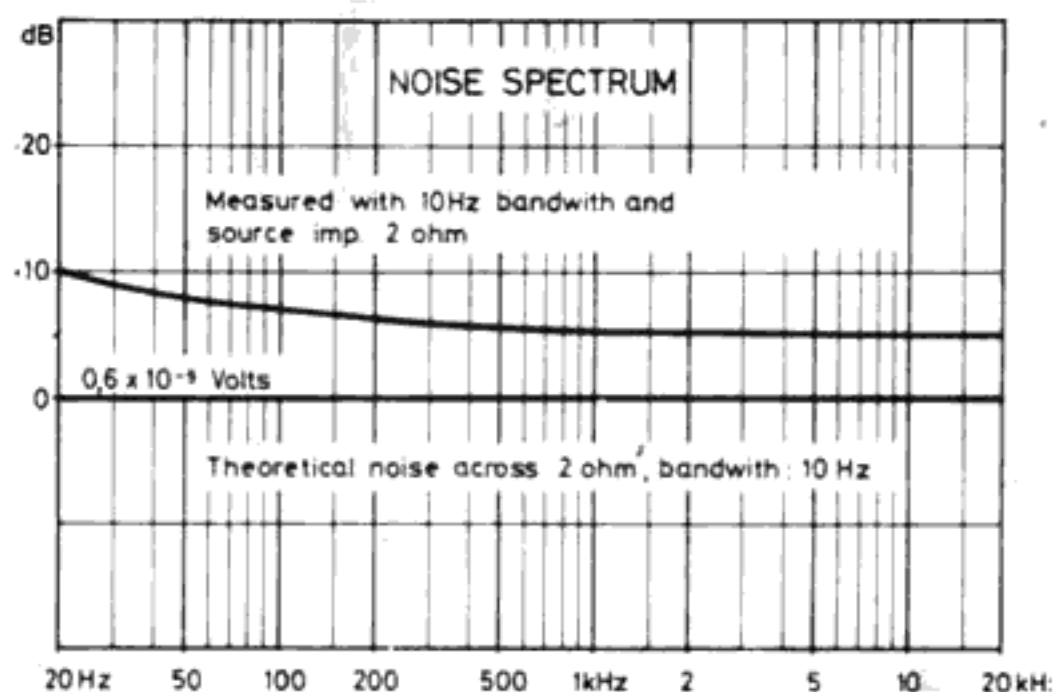
Include a description of the problem or fault for which it is returned.

### ON/BY-PASS SWITCH

When using moving coil cartridges this switch should be in on-position. When using magnetic cartridges or other kinds of "high output" cartridges the switch should be in the by-pass position. The output from the cartridge is now connected directly to the phono inputs of the high fidelity amplifier.

### CD-4/FLAT SWITCH

At CD-4 operation this switch should be pressed in, in order to reduce the bandwidth. This is done because unwanted high frequency signals may disturb the demodulation process and lead to distorted and noisy sound-reproduction.



## TECHNICAL DATA

Frequency response	Flat	20 Hz–50 kHz $\pm 0$ $-0.5$ dB
CD-4		20 Hz–50 kHz $\pm 0$ $-3$ dB
Voltage Gain		34 dB $\pm 0.5$ dB
Input impedance (1000 Hz)		75 ohm
Output impedance		< 140 ohm
Max. input		6 mV. RMS
Channel separation		> 60 dB
Harmonic Distortion (1000 Hz. max. input)	2' harmonic	0.04 %
	3' harmonic	0.01 %
IM. distortion (250:8000 Hz. max input)		< 0.01 %
Input noise (Rs = 2 ohm, Bw = 20-20.000 Hz)		< 0.05 $\mu$ V
HUM level		120 dB below max input
S/N ratio (MC-20, SL 20 E, SL 20 Q, 10 cm/sec.)		> 69 dB
Sub. Sonic Filter		-20 dB/2 Hz
CD-4 Filter		-20 dB/200 kHz
Power Requirements		90-132/180-264 V. AC/1W
Transistor complements		17
Weight		1.1 kg (2.4 lbs)
Dimensions (h x w x d)		40 x 60 x 224 mm (1.5 x 2.3 x 8.8 in)

The line voltage of the MCA-76 differs according to which destination it is delivered. How to operate the the amplifier is quite the same for each version.

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