

PICK-UP INPUT BECOMES LINE INPUT

Many audio amplifiers are still fitted with one or two inputs for a dynamic pick-up. Since record players are used less and less frequently, these inputs remain unused in many cases. At the same time, many audio systems lack a good line input.

The present circuit enables the (largely) unused dynamic input to be used as a line input. A simple passive network arranges the required level matching.

The diagram shows two versions of the circuit: version 1 provides higher amplification than version 2. Which version is to be used depends on the sensitivity of the

dynamic input, which is normally 5 mV or 2.5 mV at 1 kHz. Both versions have a line input sensitivity of 500 mV.

The design is based on highly accurate components: the resistors have a tolerance of 0.1%, while the capacitors must be manually selected with the aid of an accurate capacitance meter. The resulting circuit is much more accurate than the usual RIAA correction network in the amplifier. It is, therefore, highly suitable for testing a pre-amplifier for compliance with the RIAA correction.

Nevertheless, standard 1% components

may be used; the resulting frequency characteristic is shown in the second diagram. The theoretical deviation of circuit 1 from the ideal curve -0.05 dB at 20 kHz and that of circuit 2 at the same frequency is -0.012 dB.

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