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MOVING COIL TRANSFORMER T 20

Moving Coil Transformer T 20

The T 20 has been designed specifically for use with Ortofon moving coil cartridges.

Throughout the development and production of T 20, the best electronic components and the most meticulous quality control techniques have been employed, in order to ensure high quality sound reproduction and long life from this moving coil transformer.

Please read this Owner's Manual carefully before you start using your T 20. In case of difficulties, please contact your Ortofon dealer, who will always be happy to give you any assistance necessary.

Why is a step-up device necessary?

The output voltage of most moving coil pick-up cartridges is very low in comparison with the majority of magnetic cartridges. Therefore, if a typical moving coil cartridge is connected to the standard phono inputs of a High Fidelity amplifier, it will be impossible to utilize the full output power capabilities of the amplifier, and its signal-to-noise ratio will be seriously reduced.



Consequently, it is necessary to increase the output signals from a moving coil cartridge to a suitable level before they are led to the phono inputs of most amplifiers.

The T 20 represents the latest and most advanced development in moving coil transformers, which will increase the output voltage of moving coil cartridges without adding hiss, hum or distortion.

T 20 Features

Toroidal transformers

The T 20 contains two toroidal transformers. This advanced type of transformer exhibits a very wide frequency range, low phase distortion and a remarkable insensitivity to hum and other external fields.

Impedance switch

The T 20 can be used in connection with moving coil cartridges in the impedance range from 2 ohms to 4 ohms. The by-pass position of the switch means that magnetic cartridges can be used as well as moving coil types, without the need for changing of cables or plugs.

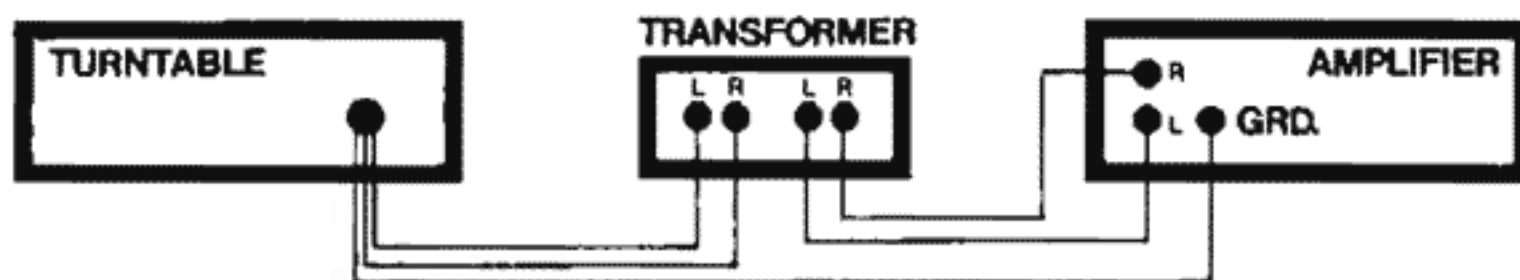


Efficient shielding

The toroidal transformer design and the housing of the T 20 have been developed to reduce the induction of hum from other Hi-Fi components.

Connecting the T 20

The T 20 is easily connected to your High Fidelity system. Connect the output leads from your turntable to the two input sockets on the rear of the T 20. Connect the supplied cable between the T 20 output sockets and the phono input sockets of your Hi-Fi amplifier. This cable is of low capacitance and will ensure optimum performance.



NB!

Never measure the T 20 with a DC ohm meter or in any way send Direct Current through the transformer, as this may affect its performance.

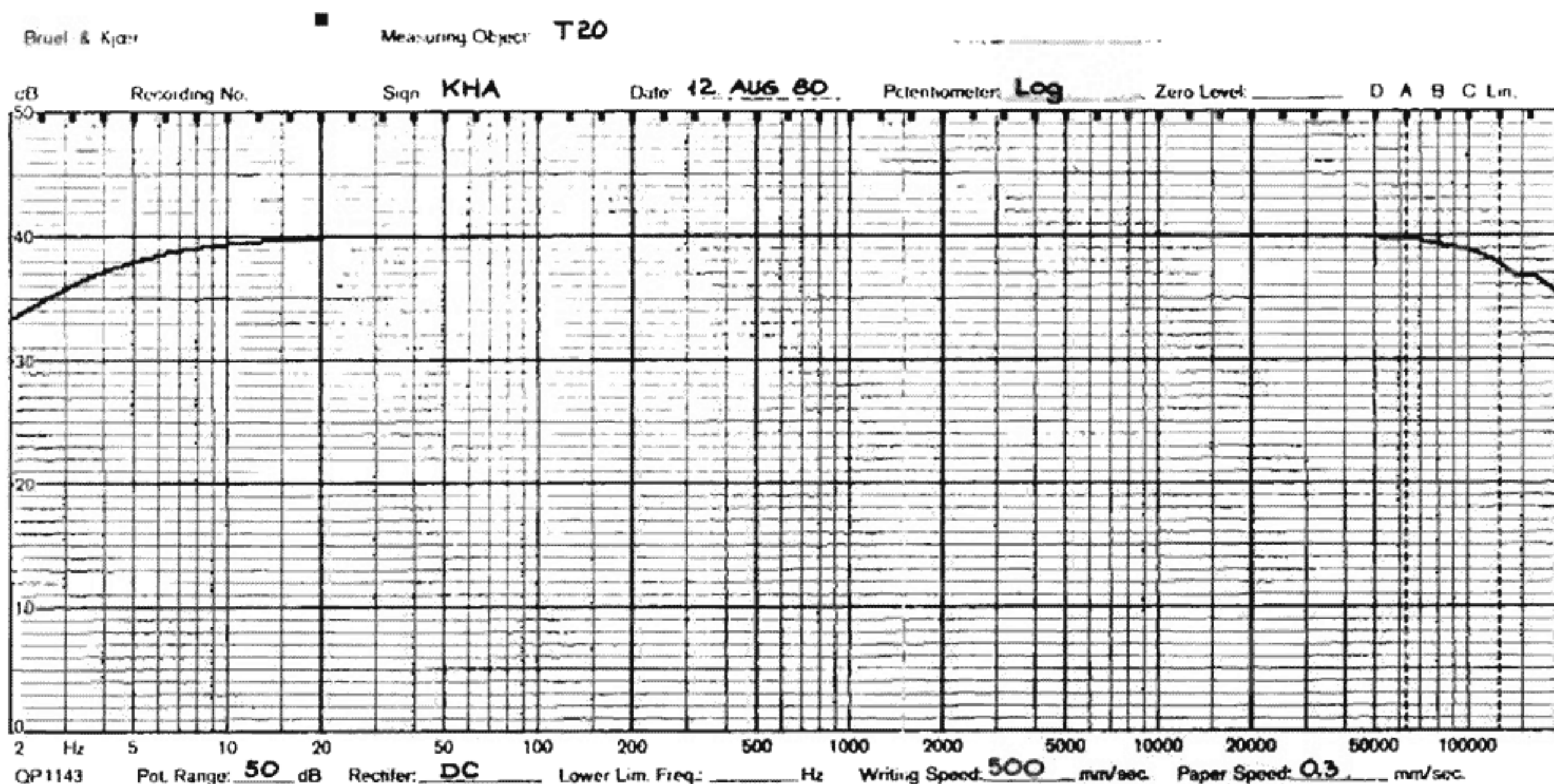
Please note that ground leads from the tonearm and/or turntable should be connected to the ground terminal(s) of the amplifier.

In the event of returning the transformer to Ortofon through your dealer for repair, please ensure that it is suitably packed to avoid damage in transit.

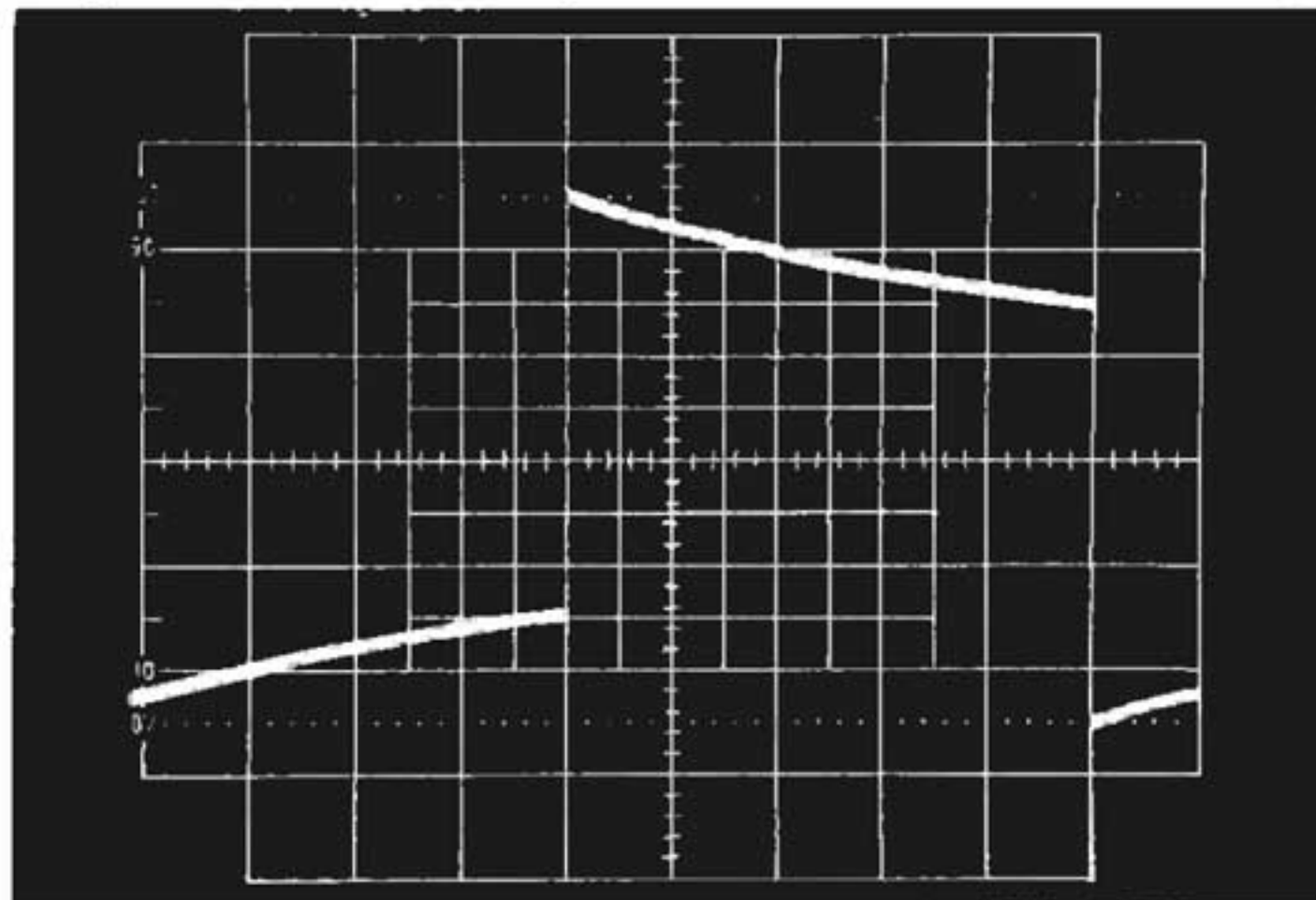
Please remember to include a description of the problem or fault for which the T 20 is returned.

Frequency response

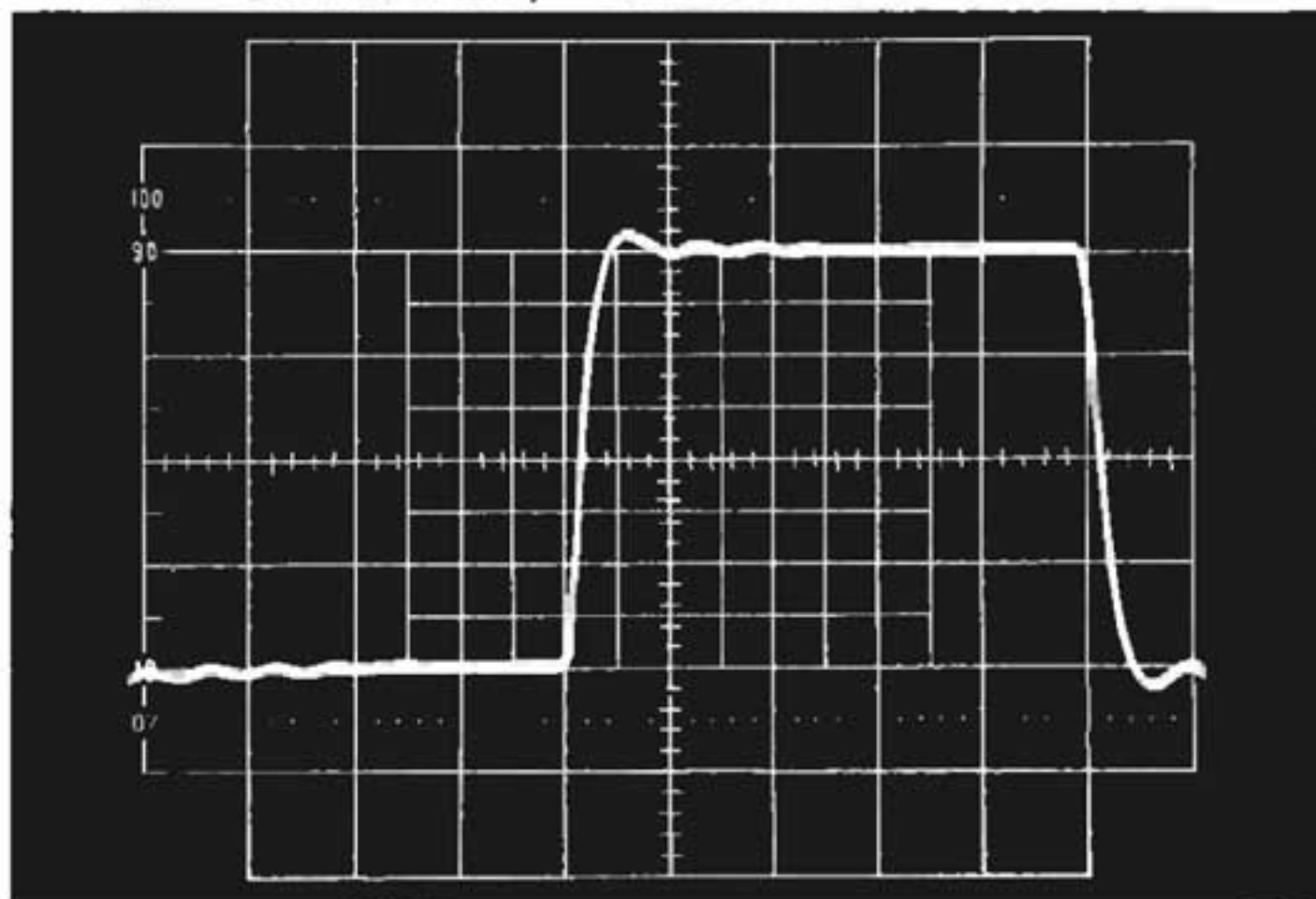
Loading: 3 ohm/47 kohm + 150pF.



Square wave response. Nominal loading.



20 Hz 5 ms/div., 5 mV/div.



10 kHz 10 μs/div., 50 mV/div.

Ortofon Manufacturing A/S
Mosedalvej 11 B
DK-2500 Copenhagen Valby

Technical data - T 20

Transformer input matches
cartridges with an output
impedance of

3 ohm
(2-4 ohm)

Output loading of the
transformer

47 kohm and
150 pF

Frequency response +0.5 dB
-1.0 dB

10 Hz-60 kHz

Frequency response +0.5 dB
-3.0 dB

5 Hz-90 kHz

Phase linearity 15 Hz-20 kHz

±18°

Square wave rise time

3 μs

Gain at 3 ohm/47 kohm

32 dB

Channel balance

within 0.2 dB

Channel separation 5 Hz-30 kHz

>50 dB

Hum pick-up referring to input

12 nV $\frac{A}{m}$

Transformer type

Toroidal

Shielding

Permalloy
+
Soft iron

Size, h × w × d, (mm)

40 × 80 × 122