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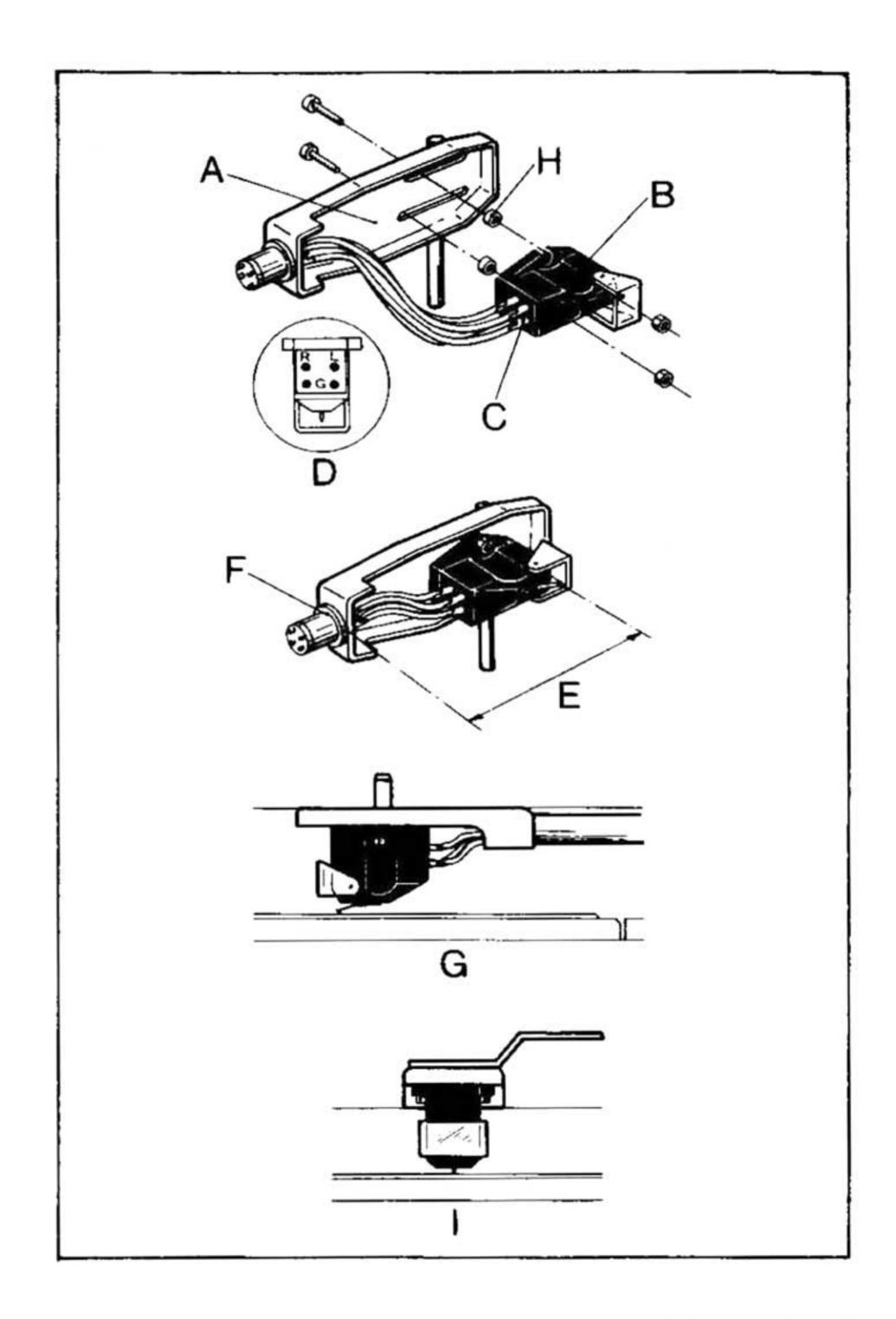
THE HOME OF THE TURN TABLE

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Ortofon accuracy in sound

Moving Coil Cartridges
MC 10 Mk II, MC 20,
MC 20 Mk II





Mounting

1. The leads from the head shell (A) are connected to the cartridge's (B) terminal pins (C) by means of the clips attached to the leads. Follow the colour code (D). (Never solder directly onto the terminal pins!).

White: Left channel, signal (L)

Blue: Left channel, ground (LG)

Red: Right channel, signal (R)

Green: Right channel, ground (RG)

- 2. The cartridge is then fastened loosely in the head shell. In the turntable/tone arm instructions you will find the correct distance (E) from the diamond tip to the socket (F). When the correct distance has been adjusted the head shell screws are tightened to secure the cartridge.
- 3. The tone arm is balanced in the majority of cases this is done by moving the counterweight back or forth. Follow the turntable/tone arm instructions. The recommended tracking force is then set.
- 4. To ensure optimum tracking ability and channel separation, it is important that the cartridge is parallel with the record (G) when in the playing position. This can be achieved either by adjusting the height of the tone arm or by placing spacers (H) between the cartridge and the head shell.
- 5. If the cartridge is not parallel with the surface of the record when viewed from the front (I) this can be adjusted by twisting the head shell carefully in the required direction (see the turntable/tone arm instructions).

Some head shell models are produced in a way that may make it difficult for you to mount the cartridge yourself and in such cases, we recommend that you contact your Hi Fi dealer.

Connection to amplifier

Ortofon Moving Coil cartridges have a low inner resistance and small output voltage which necessitates the connection of a transformer or a special prepreamplifier between the turntable and amplifier.

Some amplifiers and receivers are equipped with a special input for use with turntables mounted with a moving coil cartridge. In such cases the turntable is connected to the amplifier without the use of a transformer or pre-preamplifier.

Advice

Remember to clean the diamond regularly by removing dust with a suitable small brush and a recommended cartridge cleaning agent. Let your dealer inspect the diamond at least once a year.

When the cartridge is not in use, the guard should always be snapped over the stylus to prevent damage to the diamond.

Ortofon's Exchange Service

Owing to the nature of the design of the Ortofon Moving Coil cartridges, the stylus is not part of a replaceable assembly and therefore, Ortofon offers, through its dealers, an exchange/repair service. If you should have need for this service please contact your local Ortofon dealer.

Technical data	MC 10 MK II	MC 20	Technical data	MC 20 MK I
Weight	7 g	7 g	Weight	7 g
Output voltage per channel at 1000 Hz-5 cm/s	0,09 mV	0,07 mV	Output voltage per channel at 1000 Hz-5 cm/s	0,09 mV
Output voltage per channel at 1000 Hz-5 cm/s with STM 72 or MCA 10	4,5 mV	3,5 mV	Output voltage per channel at 1000 Hz-5 cm/s with STM 72 or MCA 10	_
Internal impedance DC resistance per channel	3 Ohm	3 Ohm	Internal impedance DC resistance per channel	3 Ohm
Vertical tracking angle	20°	20°	Vertical tracking angle	20°
Frequency response	20-20.000 Hz <u>+</u> 1,5 dB	20-20.000 Hz <u>+</u> 1 dB	Frequency response	20-20.000 Hz <u>+</u> 1 dB
Channel separation at 1000 Hz	25 dB	25 dB	Channel separation at 1000 Hz	> 25 dB
Channel balance	1,5 dB	2 dB	Channel balance	< 1,5 dB
Compliance: Horizontal Vertical	11 μm/mN 11 μm/mN	11 μm/mN 11 μm/mN	Compliance: Horizontal Vertical	12 μm/mN 12 μm/mN
Tracking ability at 315 Hz at recommended tracking force	> 60 μ m	> 60 μ m	Tracking ability at 315 Hz at recommended tracking force	> 70 μ m
FIM distortion at recom- mended tracking force	≤ 1%	≤ 1%	FIM distortion at recom- mended tracking force	< 1%
Type of stylus	Elliptical	Fine-line nude	Type of stylus	Fine-line nude
Stylus tip radius	$18 \times 8 \mu m$	$40 \times 8 \mu m$	Stylus tip radius	$40 \times 8 \mu m$
Equivalent stylus tip mass	0,5 mg	0,5 mg	Equivalent stylus tip mass	0,5 mg
Tracking force range	13-18 mN (1,3-1,8 g)	15-20 mN (1,5-2,0 g)	Tracking force range	15-20 mN (1,5-2,0 g)
Recommended tracking force	15 mN (1,5 g)	17 mN (1,7 g)	Recommended tracking force	17 mN (1,7 g)
Load impedance	> 10 Ohm	> 10 Ohm	Load impedance	> 10 Ohm