



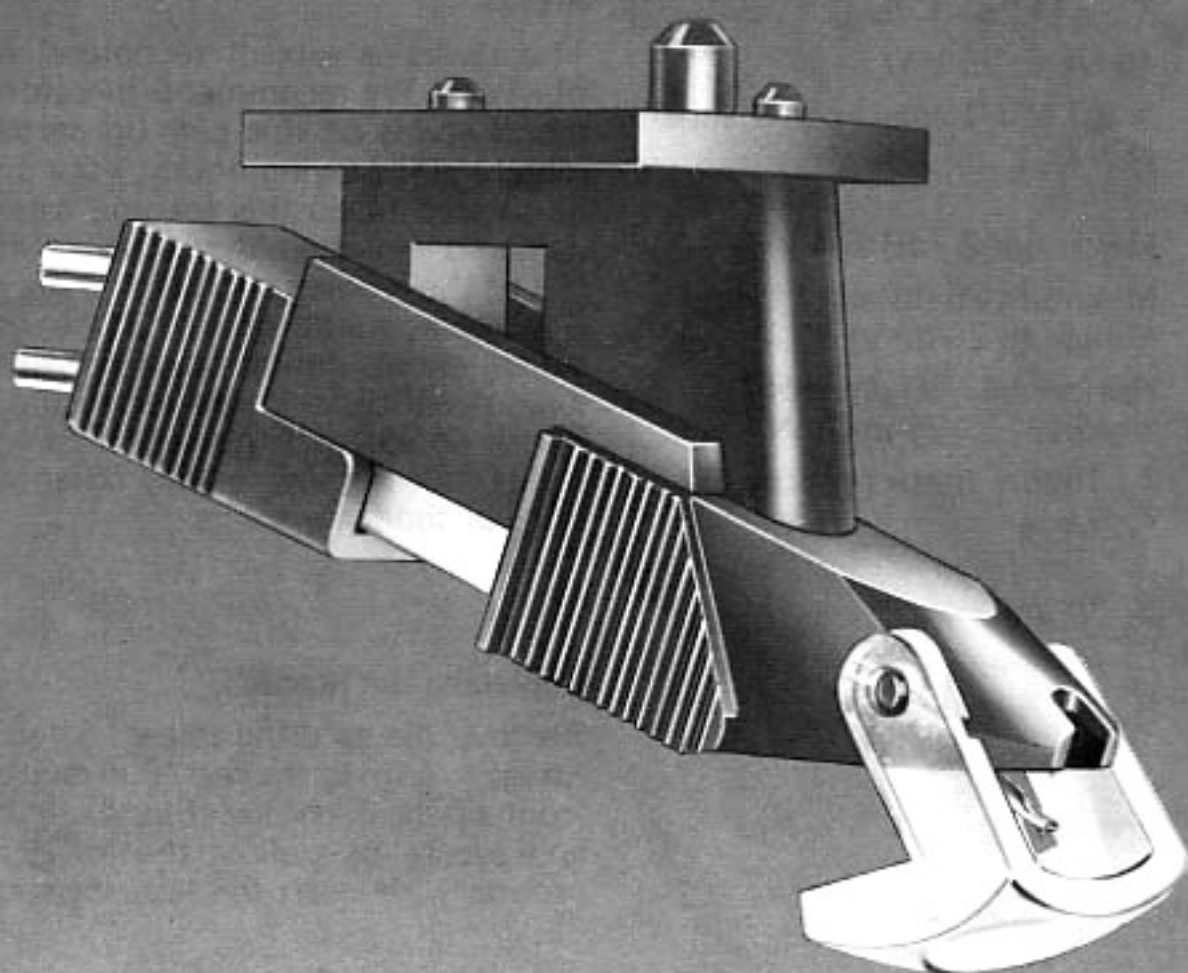
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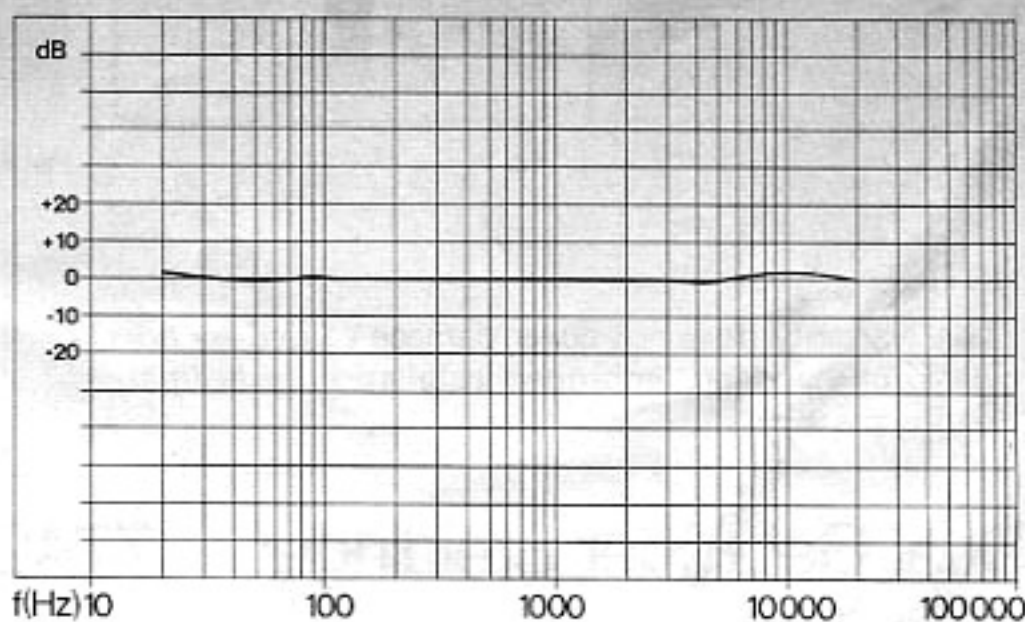
Dual

Dual ULM 55 E

made by ORTOFON



Characteristic frequency response, measured with
equalizer pre-amplifier Dual TVV 47
Test record: DIN 45 543
Tracking pressure 15 mN, record player:
Dual CS 606



Ultra low mass HiFi magnetic pick up system exclusively manufactured by Ortofon in accordance with Dual specifications. Particularly good tracking characteristics are achieved as a result of the mass reduction to approximately 1/3 of the mass of usual HiFi magnetic pick up systems.

Technical data

Stylus:	DN 155 E (black) 6 x 18 μ m biradial
Recommended stylus pressure:	15 mN (12.5 - 17.5 mN) 1.5 g (1.25 - 1.75 g)
Frequency range:	10 Hz to 25 kHz
Output:	> 0.7 mV/1 cms ⁻¹ per channel at 1 kHz
Output difference between channels:	Maximum 2 dB at 1 kHz
Isolation between channels:	Minimum 25 dB at 1 kHz Minimum 20 dB at 10 kHz
Compliance:	Horizontal 30 μ m/mN Vertical 25 μ m/mN
Intermodulation distortion (FIM) DIN 45 542 (-6 dB)	At 15 mN stylus pressure, < 0.8 %
Bass tracking capability (300 Hz) DIN 45 549	> 70 μ m
Treble tracking capability (10 kHz) DIN 45 549	< 0.6 % level 3
Inductance:	600 mH
Net weight:	2.5 g

Removing the cartridge

The newly designed screw mount makes it no longer necessary to mount the cartridge using clearance pins and nuts. The correct geometric position of the needle tip is achieved automatically.

By turning the screw in the centre of the tonearm head counterclockwise, you loosen the cartridge (Fig. 3). When doing this, be sure to hold the cartridge with the other hand, as otherwise it will fall out.

However, the tonearm grip can only be moved backwards if the locking screw "S" (Fig. 2) has been removed previously.

Stylus

The stylus is subject to natural wear as a result of playback. We recommend therefore checking the diamond stylus of this pick-up cartridge after approximately 300 playing hours. Your specialist dealer will be pleased to do this for you free of charge. Worn or damaged (splintered) styli will chisel the modulation out of the grooves and destroy your records.

For replacement only use the original stylus type stated above. Imitation styli will cause perceptible loss in quality and increased record wear.

Please notice that the needle carrier with a diamond stylus, due to size, is very sensitive to shocks, vibrations or sudden impacts.

Replacing the needle

Remove the securing screw "S" (Fig. 2) and push the tonearm grip to the rear. Pull the needle out from the front of the cartridge (Fig. 4). Insert the new needle and secure by pulling the tonearm grip forward. If necessary, re-insert the securing screw "S".



Fig. 1



Fig. 2



Fig. 3



Fig. 4

NOTICE:

"The warranty does not cover damage caused by accident, mishandling, improper installation or normal wear to the stylus."

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