



Automatic Hi-Fi Stereo Record Player with Direct Control



AF777



- Rumble betterthan-65dB,wow&flutter better than 0.05%, and constant turntable speed through Direct Control electronics
- Shock-proof free-floating sub-chassis
- Straight tubular-aluminium tonearm with de-coupled adjustable counterweight
- Aluminium turntable
- Very low-friction tonearm bearings
- Light detachable headshell
- Automatic diameter selection and positioning of arm on start of record
- Automatic stop, arm lift and return at end of record
- Hydraulically damped arm lift
- Anti-skating adjustment for spherical and elliptical styli
- Direct readout of stylus force
- Controls for 33V₃ and 45 rpm, START and STOP
- Pitch controls with 3-LED-bar actual speed indication
- Attractive tinted dust cover with friction hinges

Outstanding performance

The AF 777 has a high standard of performance. Rumble, for example, is better than -65 dB (DIN B). and wow & flutter is less than 0.05% (weighted rms). These very good figures are attributable to the thorough design and construction of the various sub-sections of the turntable: the suspension. tonearm. headshell. and especially the Direct Control electronics which regulate so precisely the speed of the turntable.

Speed sensing at the turntable

To ensure that the record always rotates at exactly the right speed, the rate of rotation of the turntable itself is continuously monitored and regulated by the Direct Control electronics. The turntable, which is beltdriven from a separate d.c. motor, has a tachometer built into it. The output of the tachometer is accurately converted into a d.c. voltage whose level is proportional to the actual speed of the turntable. This signal is continuously compared with a stable d.c. reference signal. If anything tends to alter the turntable speed the tacho-derived signal will differ from the reference; this difference causes the Direct Control electro-

nics to immediately accelerate or slow down the drive motor so as to correct the speed of the turntable.

Record speed unaffected by external influences (e.g. drag of cleaning device)

In addition to improving rumble, wow & flutter and drift specifications, direct control of the turntable speed has the important advantage that the record speed is unaffected by external influences such as the drag of a cleaning device or different stylus force. Similarly, the Direct Control electronies compensate for fluctuations in temperature or line voltage and frequency.

Top-quality tonearm

The straight tubular-aluminium construction of the tonearm gives it an ideal combination of lightness, strength and rigidity, mechanical properties so vital to a topquality tonearm. Because it is straight, with the stylus on its longitudinal axis, and since the aluminium headshell is so light, the tonearm's centre-of-gravity lies very close to its axis. Consequently, torsional forces on the arm are minimal. This helps to eliminate unwanted high frequency resonances and keeps the natural resonance of the arm. with the cartridge, to an acceptable low frequency. De-coupling of the tonearm's counterweight provides wideband damping.

Very low-friction bearings

Horizontal and vertical friction forces in the bearings have been reduced to an exceptionally low value (-=15 mg), so that there is almost no resistance to movement of the arm. As a result, the stylus is able to faithfully follow even the most delicate modulations in the record groove.

Minimal Tracking Error

Geometric characteristics of the tonearm. such as offset angle and location of the stylus on the tonearm's axis, have been designed to minimise tracking error (<0°97cm).

Excellent Trackability

The exceptionally small tracking error, combined with very low bearing friction, ensures the excellent trackability characteristics of the tonearm. This is one tonearm which allows full advantage of the trackability of the chosen cartridge.

Free-floating sub-chassis

The turntable and tonearm assemblies are mounted on a separate sub-chassis which is suspended from the main chassis via three nickel-chromium leafsprings with butyl-rubber dampers. This free-floating sub-chassis type of suspension is a wellproven and extremely effective technique that achieves superb mechanical isolation of the turntable and tonearm from the main chassis.



Exploded view of turntable assembly showing speed sensing tachometer



The high-quality tonearm has low-friction bearings



support dust cover in any position



Detachable headshell (cartridge not included)



Turntable and tonearm mounted on free-floating sub-chassis

outer casing will not cause unwanted acoustical noises. And, of course, the valuable stylus and records are better protected from accidental damage.

rate and convenient to use than the usual stroboscopes.

Attractive, modern appearance reflects professional inner qualities The AF 777 has been built to look every bit as good as it performs. From its slim, low profile to the superb finish of its precision--machined aluminium parts with their eyecatching diamond-cut grooves. All controls and indicators have been neatly arranged to provide maximum ease of operation while maintaining the elegant styling. An elegance which is capped by the attractive, tinted dust cover whose friction hinges have been designed to support it at almost any angle.

Rumble-free, shock-proof and protects record and stylus

The mechanical isolation of the turntable and tonearm has been further improved by careful location of the springs and by using material with the best possible damping properties. Suspension of the motor from the main chassis has also helped improve isolation. The result is that rumble from the motor is virtually eliminated, and external disturbances, such as vibration and acoustical feedback, are not transferred to the cartridge. Even guite violent knocks to the

Peak performance and high reliability through extensive use of electronics The high standard of performance and reliability of the AF 7 7 7 can be largely attribued to the extensive use of electronics in preference to mechanical operations. The Direct Control electronics, for example, compensate for variations in mechanical loading. Similarly, electronic pitch controls are more accurate and reliable than their mechanical counterparts, while the LEDbar speed indicator is so much more accu-

Automatic operation with many features and facilities

The AF 777 has been designed to function automatically with individual records. At the touch of a button, the turntable is started and the arm is automatically placed on to the beginning of the record. At the end of the record, the arm is automatically raised and returned to its rest and the turntable switched off.

Controls

Four push-button controls are provided. Two of these are for selecting the desired speed (33 and 45 rpm). Operation of the START button sets the turntable in motion and causes the arm to be raised, positioned Technical specification above the record's starting point and lowered on to the record. Correct positioning of the arm is determined by the diameter of the record; this is automatically sensed by a switch built into the turntable. When the STOP control is operated, the arm is raised DIN: better than 0.08% and returned to its rest, the turntable is stop- Weighted rms: better than 0.05% ped. and the secondary power supply switched off.

Pitch controls with LED speed indication

For fine adjustment of the turntable speed (±3%). two pitch controls are provided. Accurate indication of the speed is given by a LED-bar comprising three separate LEDs.

Detachable headshell

The headshell has been made detachable from the arm to facilitate cleaning or changing of the cartridge.

Direct readout of the adjustable stylus force

Stylus force can be set quickly, easily and accurately to the appropriate value, thanks to the direct readout dial that is provided. The setting is done by means of the tonearm's adjustable counterweight.

Universal anti-skating adjustment

An anti-skating adjustment enables horizontal bias compensation to be set according to the type of stylus in use. It is marked with separate scales for spherical and elliptical styli.

Hydraulically damped cueing lever

Manual raising and lowering of the tonearm is done by means of a hydraulically damp-



Turntable speeds 33'/3 and 45 rpm

Wow & flutter

Rumble DIN A: better than-43 dB DIN B: better than -65 dB

Pitch control range \pm 3%

Speed indication 3-element LED-bar

Tonearm Tubular-aluminium

Tracking error Better than 0°97cm

Bearing friction Better than 15 mg. vertically and horizontally

Resonant frequency (with test cartridge) 10 Hz

Effective arm length 215 mm (8Vi inches)

- 1 start
- 2 stop
- 3 speed selection 4 cueing lever
- 5 stylus force indicator
- 6 pitch controls
- 7 speed indicator
- 8 anti-skating control 9 stylus force adjustment

Effective moving mass 16.5 g

Anti-skating adjustment For spherical and elliptical styli

Cueing lever Hydraulically damped

Headshell **Die-cast aluminium**

Stylus force Range: 0-3gf Indication: direct readout

Turntable Material: aluminium Diameter: 320 mm approx. (12'*/« inches)

Power supply voltage 110 V. 60 Hz

Current consumption 0.1 amperes

Dimensions With dust cover closed: 141 (h) X 420 (w) X 348 (d) mm 5V2 (h) X I6V2 (w) X 133/4 (d) inches With dust cover open: 335 (h) X 420 (w) X 385 (d) mm

Weight 5.8 kg (12.8 lbs)

ed cueing lever. This ensures that the arm is always raised, or lowered, gently yet firmly, to prevent damage to the record or stylus

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> WE HAVE GOOD HIFI AT YOUR SERVICE PLEASE WAIT HERE & A MEMBER OF OUR TEAM WILL BE WITH YOU SHORTLY. Or press finger HERE