

SANSUI SR717

DIRECT-DRIVE ELECTRONIC TRANSCRIPTION TURNTABLE



Sansui has engineered this direct-drive transcription turntable with particular attention to three key qualities: precision, stability and durability. When it comes to performance, vibrations you can't hear can, indeed, be extremely harmful to faithful reproduction of musical timbre

and nuances. The Sansui SR-717 protects you from all motor vibration by driving the high-inertia platter directly with a DC servomotor with its own solid-state electronic control system. The S-shaped tonearm with friction-free Sansui support reduces all tracing distortion. And the no-

howl cabinet does away with resonance. Sansui uses superhardened steel alloy and other advanced materials throughout to ensure impressive performance over long use. When you listen to a record on the Sansui SR-717, all you will hear is what is on the record, not under it.

Sansui

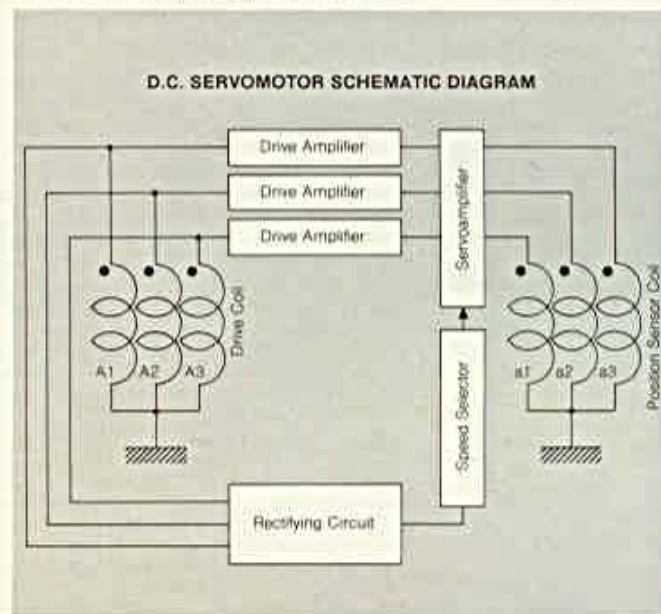
One of the finest manual turntables ever made.

Sansui's SR-717 has S/N of 60dB, wow/flutter of 0.035%.

SUPER-PRECISION DIRECT-DRIVE DESIGN

20-Pole Brushless DC Servomotor

The platter, platter shaft and direct-drive DC servo-controlled motor of the SR-717 are virtually one wholly-integrated piece of precision machinery. Motor speed is identical to platter speed, reducing all chance of rumble, unwanted vibration and rotation error caused by mechanical linkages. The 20-pole brushless DC motor developed by Sansui operates flawlessly on less power, generates less heat and induction hum and is subject to significantly less speed deviation than even the finest motors used in belt-drive or rim-idler type systems.



Individually-Balanced Precision Platter

The SR-717 is not affected by changes in platter load. This is due in part to the precision design of the 30cm aluminum alloy die-cast platter with its individually-balanced, high-inertia characteristics and heavy weight (1.4kg.). Durability and stability are further assured with the use of a superhard spindle, special alloy sleeve and heavy-duty lubricant originally developed by the spacecraft industry.

Impressive Performance

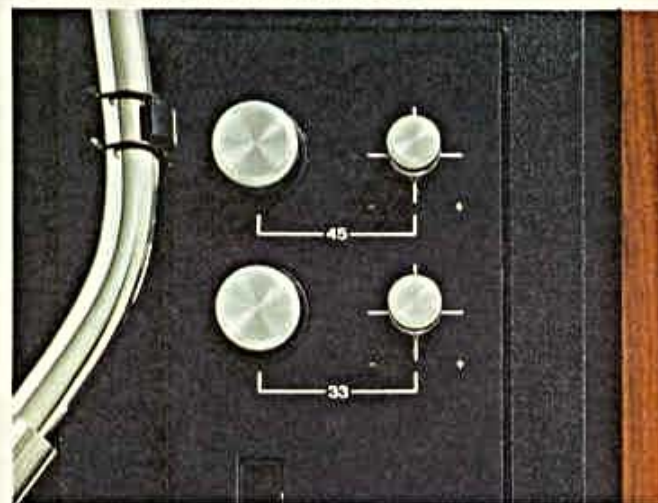
The direct-drive motor and heavy platter contribute to rarely-achieved excellence in performance: a signal-to-noise ratio of 60dB and a wow/flutter of 0.035%. The sturdy design means this performance is provided over years of use. And the extra-thick (6mm) platter mat completely absorbs harmful vibration, further improving signal-to-noise and resisting acoustic feedback while protecting your records.

Sansui Exclusive Position-Sensor

The SR-717 employs a unique Position-Sensor built inside the rotor magnet. This Sansui-exclusive engineering innovation uses the two coils on the bifilar winding in each slot, one coil to continuously detect the precise position of the rotor and the other coil to drive the motor. The mechanism is error-free and needs no adjustment.

Solid-State Control

The Position-Sensor registers the sine-wave voltage caused by the moving rotor. This is passed on as a control signal to the servomotor. A high-gain, solid-state servoamplifier is used in this sophisticated circuit, together with high-precision parts, to assure minimum rotation drift and maximum resistance to load change. The motor ignores changes in supply voltage and provides super-accurate rotation speed at all times.



PROFESSIONAL STROBO SPEED CONTROL

Visual Check on Precise Rotation

The outer rim of the platter on the SR-717 is engraved with dot-like stroboscopic calibrations. When illuminated with the pulsing light of the built-in strob lamp, these dots enable immediate visual confirmation of platter rotation speed. The four lines of dots, top to bottom, are:
 ① 33 $\frac{1}{3}$ rpm, 50Hz; ② 33 $\frac{1}{3}$ rpm, 60Hz;
 ③ 45rpm, 50Hz; ④ 45rpm, 60Hz.

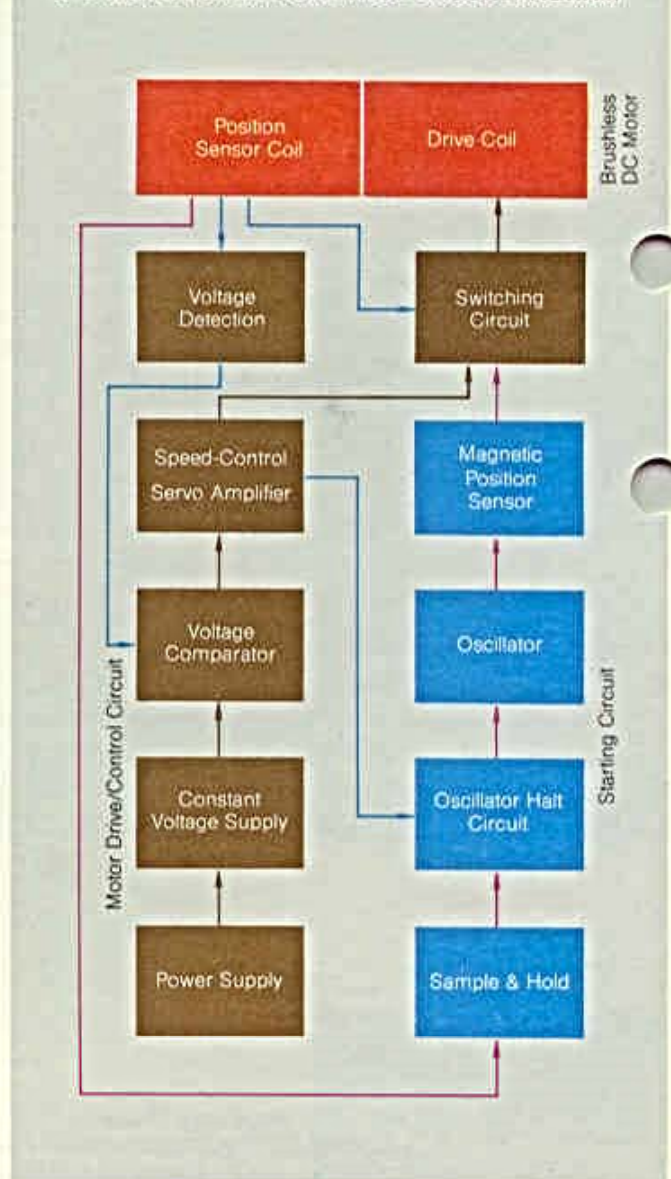
Use of Stroboscope and Pitch Controls

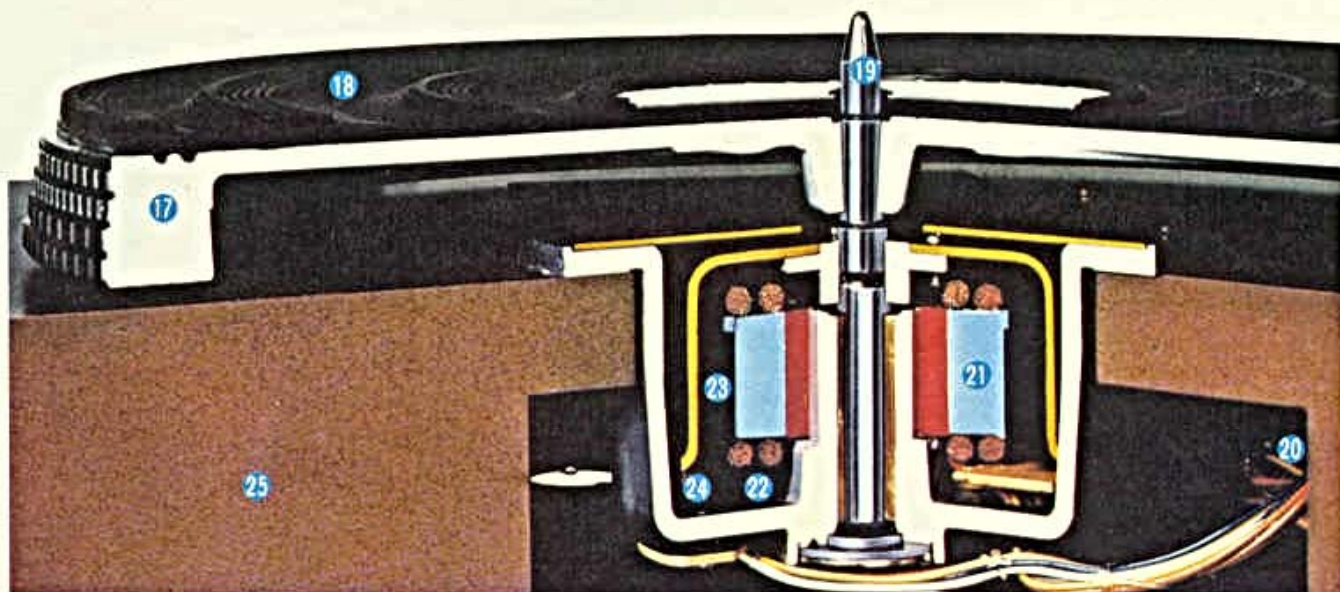
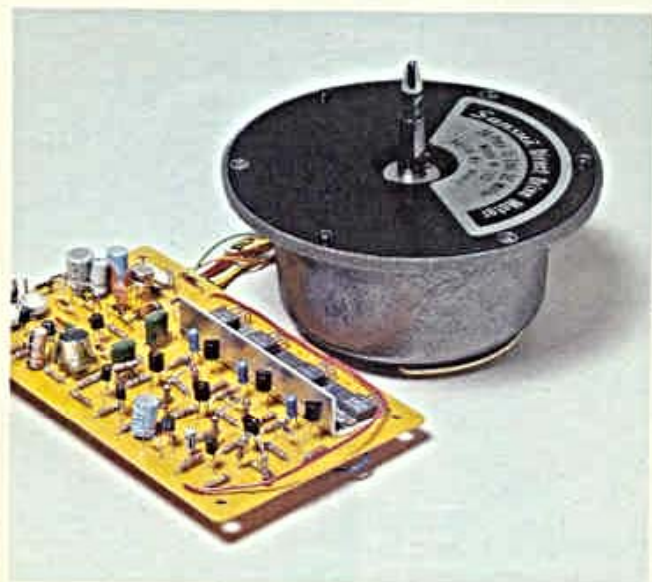
First, select rotation speed (33 $\frac{1}{3}$ or 45rpm) by use of the feather-touch Speed Select buttons. These are entirely electronic and use no mechanical links. Then, as the platter rotates, observe the line of dots corresponding to selected speed and the frequency of AC voltage in your area. If the dots appear to "creep"

forward or backward, adjust the speed of the platter with the Pitch Control for that speed until they appear to stand still. Adjustment range is $\pm 4\%$ from rated speed. Fine-tuning your platter enables you to reproduce all musical sounds on any record with perfect pitch.



D-C MOTOR START/CONTROL BLOCK DIAGRAM





NON-RESONANT CABINET ELIMINATES FEEDBACK

Solid Laminate Cabinet of Fibre Wood

The heavy and handsome cabinet of the SR-717 has practically no unused or "dead" interior space, thus reducing the chance of acoustic feedback or "howling" significantly. Further, all cabinet boards are made of fine-splintered chips of selected wood fibre, compressed into high-density panels and laminated into block-like structural components. The direct-drive motor, tonearm, and all other parts are firmly mounted on the heavy base, further contributing to the turntable's high signal-to-noise ratio and totally dependable performance.

Natural Rubber Insulators and Acrylic Cover

To further guard against external vibration, the SR-717 is supported by large hemispherical insulators of natural rubber. And to protect your records and the operational parts of the turntable itself, a free-stop dust cover (removable) is provided. The cover is of smoked high-impact plastic, resistant to dust and scratches, and is self-supporting at the opening angle you desire.

- 1 DETACHABLE FREE-STOP HINGE
- 2 DIRECT READOUT BALANCE WEIGHT
- 3 LATERAL BALANCER
- 4 ONE-POINT/KNIFE-EDGE SUPPORT
- 5 ARM LIFTER BAR
- 6 INSIDE-FORCE CANCELLER
- 7 S-SHAPED TUBULAR ARM
- 8 PITCH CONTROLS
- 9 SPEED SELECTOR (33 $\frac{1}{3}$ rpm and 45rpm)
- 10 CUEING LEVER
- 11 LIGHTWEIGHT HEADSHELL
- 12 RESONANCE-FREE NO-CAVITY CABINET
- 13 PLATTER
- 14 CENTER SPINDLE/MOTOR SHAFT
- 15 STROBOSCOPIC CALIBRATIONS
- 16 STROBO LAMP
- 17 ALUMINUM DIE-CAST PLATTER
- 18 RUBBER PLATTER MAT
- 19 PRECISION-MACHINED CENTER SPINDLE
- 20 SERVO CONTROL AMPLIFIER
- 21 STATOR CORE
- 22 BIFILAR DRIVING AND SELF POSITION DETECTION COILS
- 23 ROTAR MAGNET
- 24 STARTING COIL
- 25 SOLID 3-PLY CHIPBOARD BASE

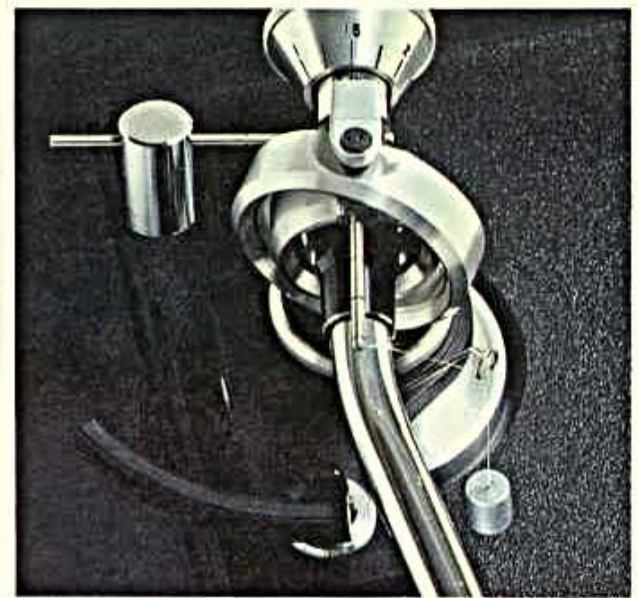
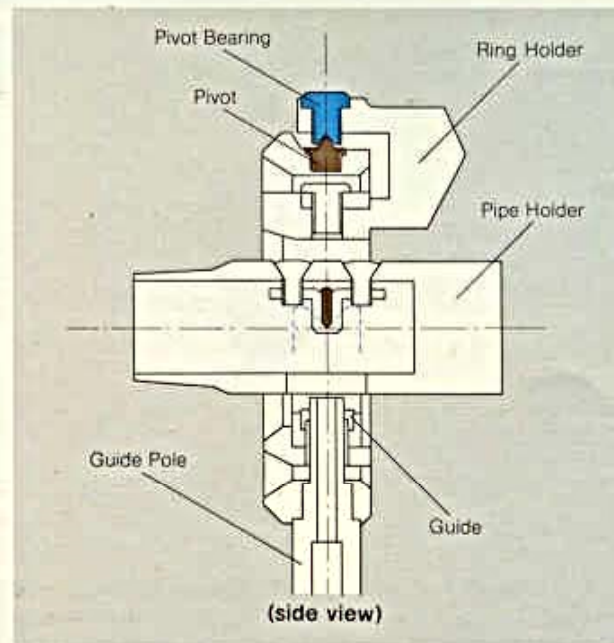
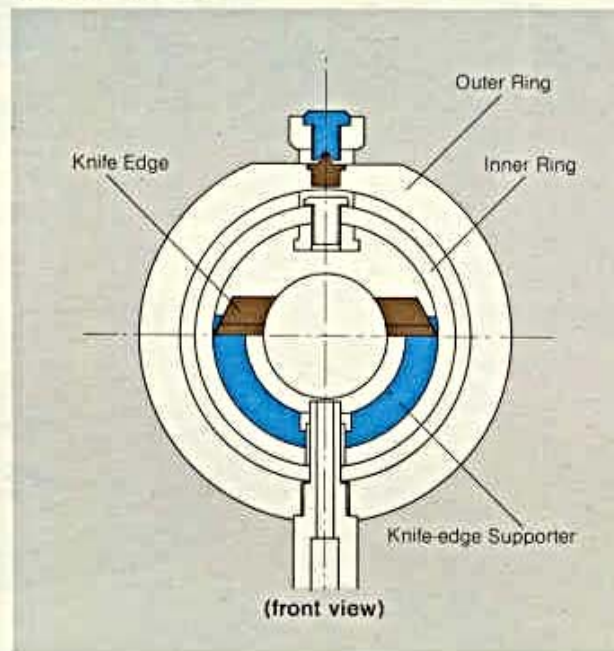
FRICTION-FREE SANSUI TONEARM DESIGN

S-Shaped Tonearm

Sansui has developed a special S-shaped tonearm of extra high sensitivity. It is statically balanced, damped for extremely low resonance, and suitable for tracing even the most complex undulations of the record groove perfectly.

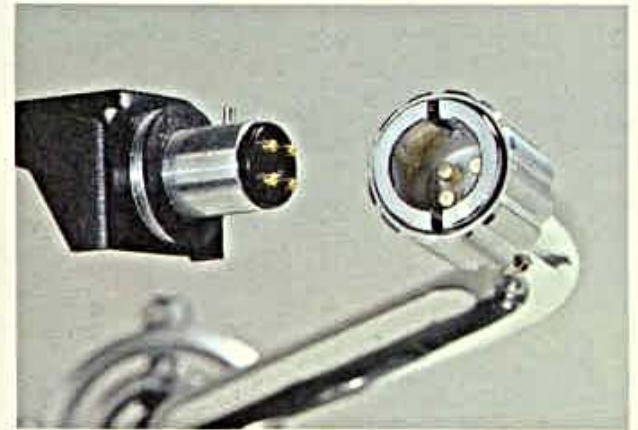
One-Point/Knife-Edge Support

The tonearm is supported on a knife-edge fulcrum of durable, superhard alloy for free vertical motion. Horizontal motion is virtually free of resistance thanks to a needle-point suspension system developed by Sansui. This unique arrangement lowers the center-of-gravity and ensures correct lateral balance of the tonearm to improve tracing and eliminate uneven wear on stylus and records.



Gold-Plated Connection Terminals

Non-corrosive, gold-plated connection terminals on both the tonearm and headshell ensure optimum electrical contact almost permanently.



Reduced Tracing Distortion

A lateral balancer for adjusting left/right balance, a specially-constructed inside-force canceller to prolong record and stylus wear, and the friction-resisting characteristics of the support system contribute to the reduction of tracing distortion and greatly increase durability.

Other Features

Professional-class features such as a direct-readout balance weight, gold-plated pin contacts for low-noise, high-reliability performance, ideally-damped cueing lever and other features add convenience and accuracy to the tonearm assembly. Further, the signal cables in the SR-717 are the low-capacitance (40pF/m) type to ensure that all recorded frequencies (including the ultrasonic carriers used in some 4-channel discs) are transmitted without attenuation. Also provided are a 45rpm adaptor, a resonance-damped, light-weight headshell of the type accepting any high-quality cartridge, and extension rear shaft for heavy cartridges.

Stability and durability add up to excellence.

Direct-Drive—Naturally

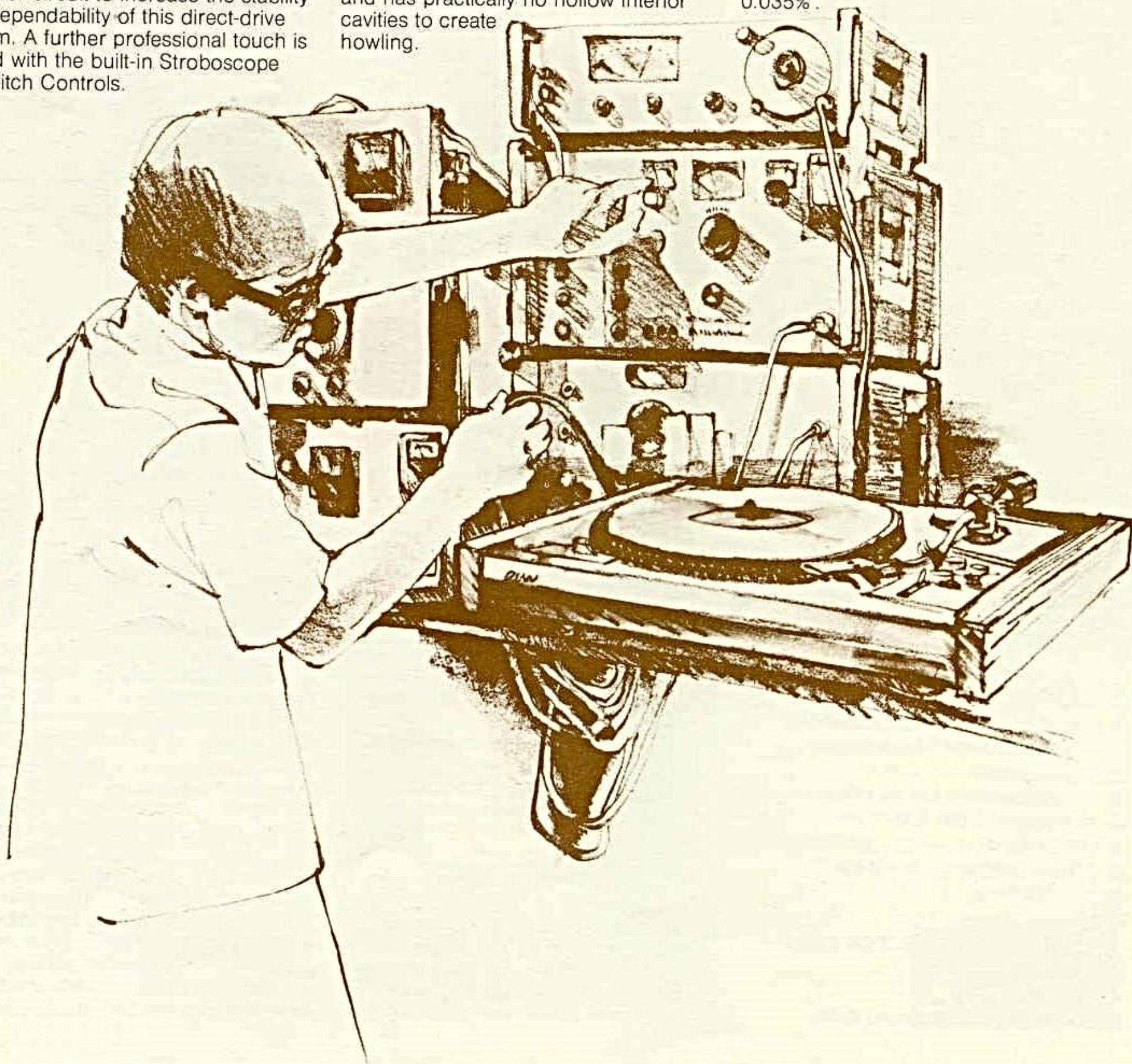
Sansui engineers gave particular attention to durability and stability in creating the SR-717. Together, they add up to excellent turntable performance. Naturally, the platter rotation system they selected is the direct-drive DC servomotor-controlled type. Since motor shaft and platter shaft are one in the same, and since motor speed and platter speed are identical, no fluctuations in speed can be caused by loose belts, noisy idlers or other mechanical speed-reduction devices. As explained on page 2, Sansui developed a unique Position-Sensor and a solid-state electronic servo-amplifier circuit to increase the stability and dependability of this direct-drive system. A further professional touch is added with the built-in Stroboscope and Pitch Controls.

Perfect Tracing and Ideal Acoustics

No less attention was paid to creating a tonearm living up to the quality of the advanced drive system. As explained on Page 4, this tonearm is supported on a knife-edge fulcrum for vertical motion and suspended on a Sansui-exclusive needle-point support for horizontal motion to reduce friction to nearly zero. The S-shaped tonearm with long effective length of 235mm has a sensitivity ten times that of ordinary types, and includes an inside-force canceller and other professional features throughout. The resonance-free cabinet of the SR-717 is specially crafted of high-density wood laminate and has practically no hollow interior cavities to create howling.

What You Don't Hear Can Hurt

Motor vibration, tonearm and cabinet resonance and other harmful abnormalities don't have to be audible to create havoc with high fidelity sounds. The SR-717 is designed to eliminate even those *inaudible* imperfections which can severely limit dynamic range, reproduction fidelity and overall record performance. It is thus ideal for use with even the most demanding disc recordings in stereo or 4-channel. The advanced technology and unique engineering concept reflected in the SR-717 pay off in a signal-to-noise ratio of 60dB and an outstandingly low wow/flutter of 0.035%.



SPECIFICATIONS

TYPE	Two-speed, direct-drive
DRIVE SYSTEM	Electronically controlled 20-pole Synchronous motor with direct-drive
SPEEDS	33 $\frac{1}{3}$, 45 r.p.m.
SPEED ADJUSTMENT	$\pm 4\%$
PLATTER	Aluminum alloy die-cast diameter 300mm (12")
MOTOR	20-pole DC brushless type
WOW & FLUTTER	Less than 0.035% WRMS
SIGNAL TO NOISE RATIO	Better than 60dB
TO NEARM	Statically-balanced S-shaped tubular tonearm with anti-skating device, direct readout stylus pressure dial, 4-contact plug-in head, Lateral Balancer
TO NEARM LENGTH	235mm (9 $\frac{1}{4}$ ") pivot to stylus tip
OVERHANG	16.5mm ($\frac{5}{8}$ ")
SUITABLE CARTRIDGE WEIGHT	4g~18g
POWER REQUIREMENTS	100V, 120V, 220V, 240V 50/60Hz
POWER CONSUMPTION	5 watts
DIMENSIONS	508mm (20") W 182mm (7 $\frac{1}{8}$ ") H 394mm (15 $\frac{1}{2}$ ") D
WEIGHT	13.1kg (28.9lbs.) Net 15.1kg (33.3lbs.) Packed
ACCESSORY MECHANISM	Inside force canceller Direct reading stylus pressure scale
ACCESSORIES	45rpm record spindle adaptor, removable dust cover with automatic hinges, extension rear shaft for heavy cartridges.

Design and specifications subject to change without notice for improvements.

