

Technics SP-25

Quartz Synthesizer Direct Drive
Turntable



QUARTZ

Professional Series



High Standards of Professional Performance and Flexibility

When you are looking for the best turntable your money can buy, it makes sense to see what professionals choose. In a vast number of cases that means a turntable from Technics, the originator of direct drive turntables. For example, the SP-10MKII was originally designed for home use but soon gained favorable reputation among broadcast stations around the world for high performance and durability. Over a thousand SP-10MKII's are used by broadcasters in over 25 countries around the world, including many broadcast stations in the United States. The new SP-25 offers you a similarly high professional standard of excellence, plus the kind of flexibility and convenience that is important for home use. Features include total quartz-locked pitch control within $\pm 6\%$ range from rated speeds, full cycle detection FG, extremely high torque for fast starts and load

stability, large turntable platter with extra-high moment of inertia, electronic braking system, integral rotor/platter motor construction, and highly effective damping.

Total Quartz-Locked Continuous Pitch Adjustment within $\pm 6\%$

Quartz-locked control means virtually perfect speed accuracy. But in most quartz-controlled turntables, this accurate speed control circuit must be defeated when pitch changes are required.

Now, with the SP-25, pitch is variable continuously (analogically) by up to $\pm 6\%$ under total quartz-locked control. The $\pm 6\%$ pitch control is effected by operating a rotary knob. (Precision scales are provided for your reference).



With this precision system you can match the pitch of a record to that of a musical instrument, or expand and compress playing times to fit a given broadcasting time slot.

Single-row platter markings and quartz oscillated strobe illuminator are also provided indicating exact 33-1/3 or 45 rpm rated speed.

High Torque for Fast Starts

The integral rotor/platter motor delivers 1.5 kg-cm (1.3 lb-in) of starting torque. This high torque gives very quick starts enabling the platter to reach 33-1/3 rpm within 0.7 sec. (a quarter of a turn). This is a big advantage in many professional applications where fast cueing is a necessity.

Excellent Load Characteristics for Steady Speed

Speed fluctuation due to load torque (caused by tonearm or record cleaner drag) is virtually eliminated thanks to the elaborate electronic circuits. It is 0% within 1.0 kg-cm (0.87 lb-in). If you could place 100 tonearms tracking 2 grams each onto this turntable, it would still rotate at precisely the chosen speed.

Large Turntable Platter with Threefold Damping

To isolate the turntable and damp out external vibrations, the large 33.9 cm aluminum diecast turntable platter of the SP-25 is damped on three surfaces. Specially fabricated rubber matting is placed in the underside along with underside rim of the turntable platter. And the thick turntable sheet (rubber matting) covers the top of the platter. As a result, acoustic isolation is maintained even at high sound pressure levels.

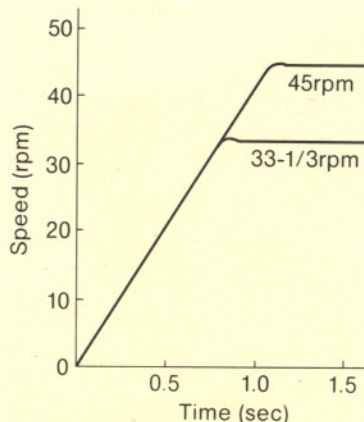
Precision Diecast Aluminum Base

Like the platter itself, the turntable base is made of precision-made diecast aluminum. Thanks to this turntable base and the other anti-resonance measures incorporated in the SP-25, this turntable exhibits excellent resistance to acoustic feedback.

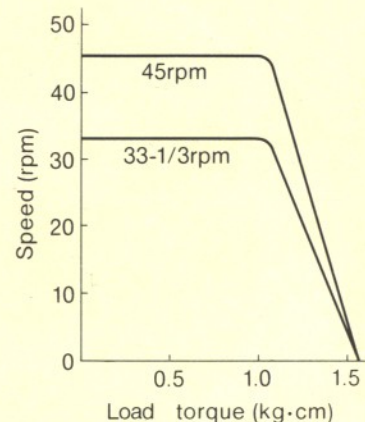
Other Fine Features

- Quick stop is achieved with a fully electronic braking system.
- Soft-touch start, stop and power on/off switches allowing precision control capability without the annoyance of accidental operation.
- Technics famous integral rotor/platter motor construction with full cycle detection FG.

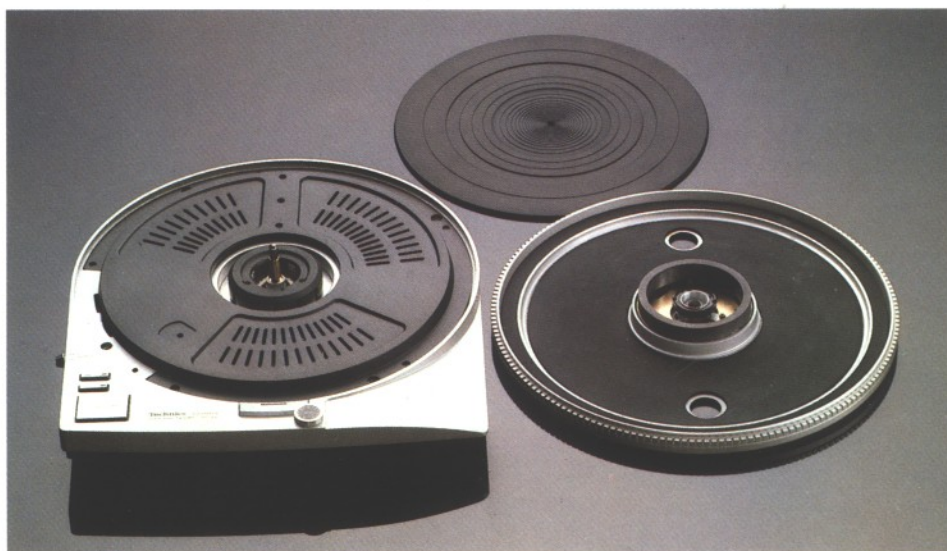
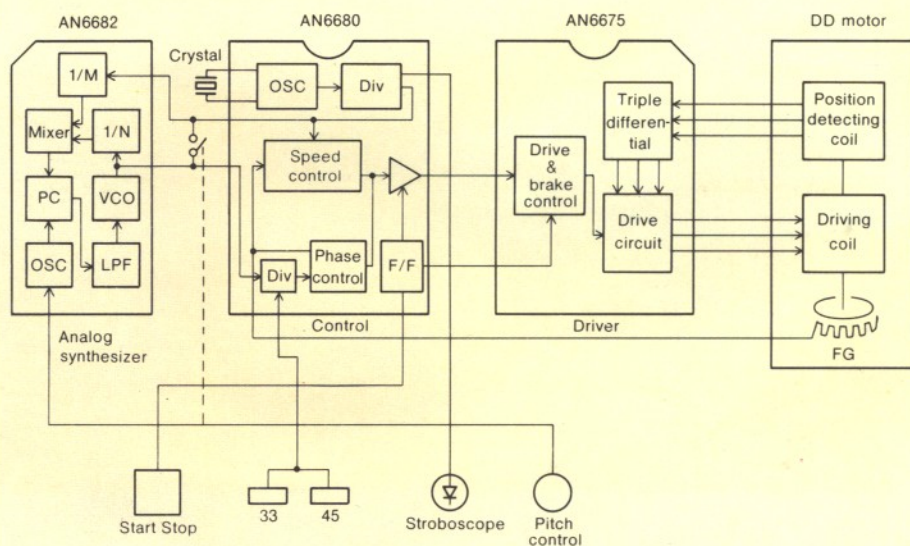
Start-up time



Load characteristics



Block diagram



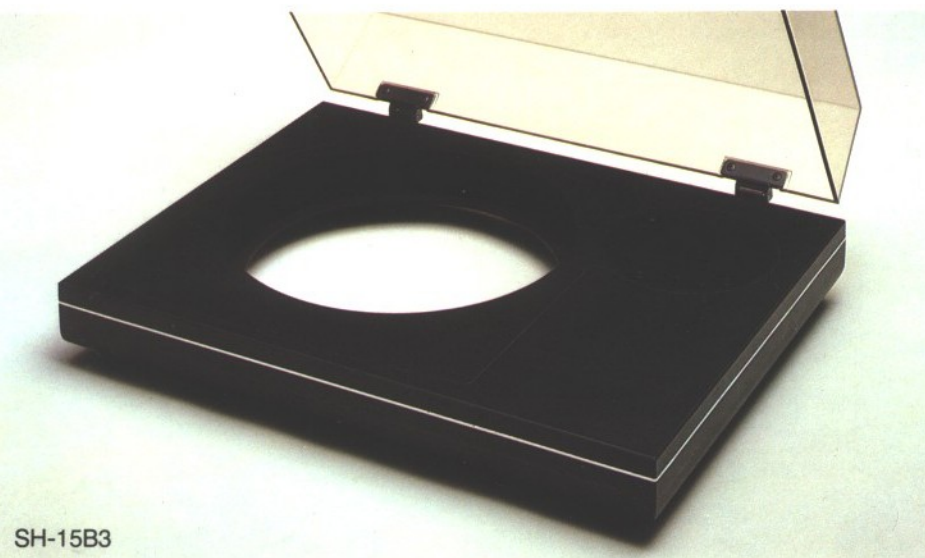
Turntable Bases for the SP-25

SH-15B2/SH-15B3

These two bases have been specially developed for use with either the SP-15 or SP-25 turntables. Each base is constructed of very heavy rubber material that is acoustically dead, and when combined with the excellent anti-resonance characteristics of the SP-15 or SP-25, the result is outstanding insulation against vibration. The four individual spring-loaded feet, as well as the acrylic dust cover are also coupled to the heavy rubber material to further suppress the transmission of vibrations.

The real difference between these two bases is in their appearance. The SH-15B2 is finished in a beautiful simulated rosewood veneer, while the SH-15B3 contains no trim and is completely black.

SH-15B2



SH-15B3

Technical Specifications

TURNTABLE SECTION

Type	Quartz Synthesizer Direct Drive
Motor	Ultra-low-speed, brushless, DC motor
Pitch control	All quartz-locked control within $\pm 6\%$
Turntable platter	Aluminum diecast, diameter 13-11/32" (33.9 cm), weight 4.4 lb (2 kg) (including rubber matting)
Speeds	33-1/3, 45 rpm
Starting torque	1.3 lb-in (1.5 kg-cm)

Start-up time	0.7 sec. (to 33-1/3 rpm from standstill)
Braking system	electronic brake
Speed fluctuation due to load torque	0% within 0.87 lb-in (1.0 kg-cm)
Wow and flutter	0.01% WRMS* 0.025% WRMS (JIS C5521), $\pm 0.035\%$ peak (IEC 98A weighted)
Rumble	-56 dB DIN A (IEC 98A unweighted) -78 dB DIN B (IEC 98A weighted)

GENERAL

Power supply	AC 120 V, 50/60 Hz
Power consumption	11 W
Dimensions (H×W×D)	3-5/32"×13-3/4"×14-41/64" (8.5×34.9×37.2 cm)
Weight	10.6 lb (4.8 kg)

* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Technics

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