The home of the turntable

THE VINYL ENGINE®

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Technics QUARTZ

SL-150MK2

Quartz-Phase-Locked Control Direct Drive Turntable with Quartz Synthesizer Pitch Control

SL-150MK2 Quartz Accuracy with Tonearm Interchangeability

Total Quartz Control with LED Pitch Readout

The accuracy of quartz-phase-locked control. Adjustable pitch. Up to 199 speed settings with digital LED display. Precision feather-touch controls. All this and more is yours with the incredible SL-150MK2. Speed control is at your fingertips. Just press the plus or minus feather-touch buttons, the pitch will change up to 9.9% above or below the rated speed of 33-1/3 or 45 rpm in 0.1% increments or decrements. And the result is displayed digitally with LED readout. A plus 5.9% or minus 5.6% readout indicates a half tone change in pitch. Moreover, since the pitch is controlled by a quartz oscillator, precise rotational accuracy is assured at every speed settings.

Aluminum Diecast Cabinet and Heavy Plywood Base Give Excellent Acoustic Characteristics

The double structure of aluminum diecast cabinet and heavy plywood base makes the SL-150MK2 virtually feedback-proof. The 26.5 mm thick plywood tonearm base also helps to reduce howling and rumble.

All Front-Panel Controls

A masterpiece of human engineering, all feather-touch controls and LED displays are strategically positioned in-line on the front panel for optimum operating ease and convenience. To ensure precise control and prevent accidental operation, all buttons are precision-machined and require a certain amount of pressure and stroke to activate the circuit.

All Control Functions Effected by High Density ICs

The SL-150MK2 has such a sleek functional design and such ease of operation that one may forget the technological and engineering complexity upon which it is based. High density integrated circuits are used to squeeze the operations of more than 3000 discrete elements into a mere few inches of space. The IC's used cover these basic functions: quartz synthesizer pitch control and digital driver, quartz oscillator frequency divider and speed change control, phase and speed control, and full cycle integration type frequency generator.

Integral Rotor-Platter Motor Design and Speed Detection Mechanism

By combining the turntable platter with the motor rotor, the number of parts is reduced and performance is improved. In real terms, what this amounts to is a low wow and flutter of 0.025% WRMS (±0.035% DIN 45507) and a rumble −78 dB (DIN 45539B, IEC 98A weighted). The FG servo mechanism is a full cycle integration type and mounted around the central spindle shaft. The significance of this integrated structure is the fact that the resultant detection signal is an averaged value. Any slight eccentricity tendencies, or pitch variations are minimized for even greater accuracy in the FG control system.

High Torque, Rapid Start-up, Stable Load Characteristics

The integral rotor/platter design boasts a high torque of 1.5 kg·cm. Speed fluctuations caused by heavy tracking force or record cleaner drag are virtually eliminated. In fact, if you could fit 150 tonearms tracking at 2 grams each onto this turntable, it would still rotate at precisely the chosen speed. From standstill, the 13-inch, 2.5 kg diecast aluminum platter attains its rated speed of 33-1/3 rpm in a quarter of a turn or within 0.7 sec.This makes practically instant cueing possible. Fast and positive electronic braking also enable speedy record changing possible, too.

Other Features

- Additional wooden tonearm base supplied for your "second" tonearm.
- Four additional extra-large insulating feet provided to accommodate longer stemmed tonearms. (to prevent the stem from touching the shelf under the turntable).

Technical Specifications

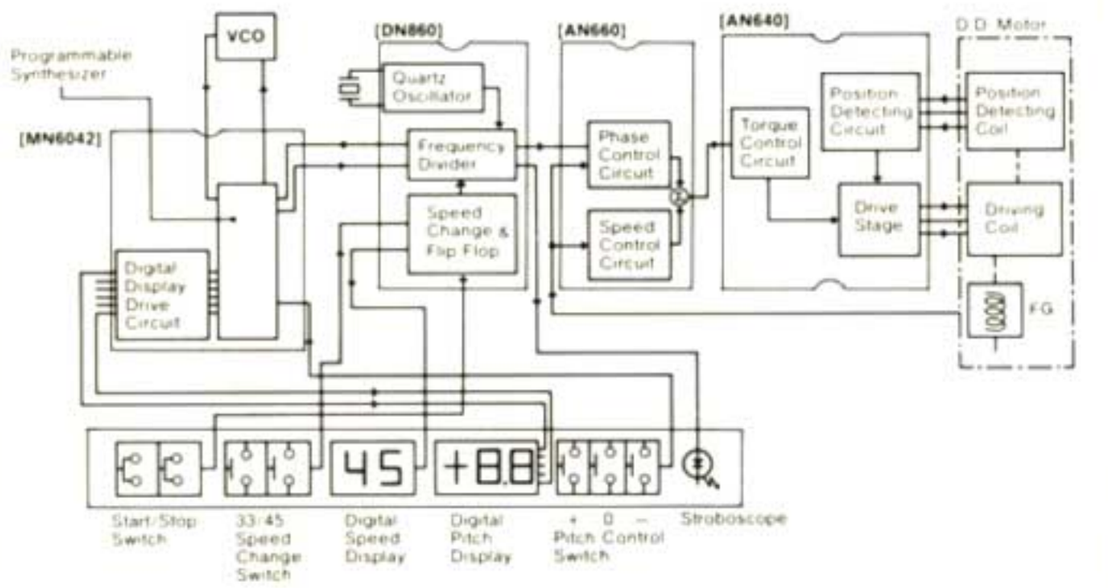
TURNTABLE SECTION

Type	Quartz-phase-locked control direct drive turntable
Motor	Ultra-low-speed brushless DC motor
Turntable platter	Aluminum diecast, diameter 33 cm (13")
Moment of inertia	340 kg·cm² (116 lb·in²)
Turntable speeds	33-1/3 and 45 rpm
Pitch controls	Quartz systhesizer pitch control ±9.9% range digital pitch readout
Starting torque	1.5 kg·cm (1.3 lb·in)
Speed fluctuation due to load torque	0% within 1.5 kg·cm (1.3 lb·in)
Speed drift	Within ±0.002%
Wow and flutter	0.025% WRMS (JIS C5521) ±0.035% peak (IEC 98A weighted)
Rumble	−56 dB DIN A (IEC 98A unweighted) −78 dB DIN B (IEC 98A weighted)

GENERAL

Power consumption	13 W
Power supply	AC 110~120/220~240V 50/60 Hz
Dimensions (W×H×D)	45.3×15.9×38.4 cm (17-45/64"×6-17/64"×15-7/64")
Weight	10.2 kg (22 lb)

Block Diagram



Additional wooden tonearm base

Additional extra-large insulating feet

Technics
Matsushita Electric

SD8F010E2