



Technics SL-1900

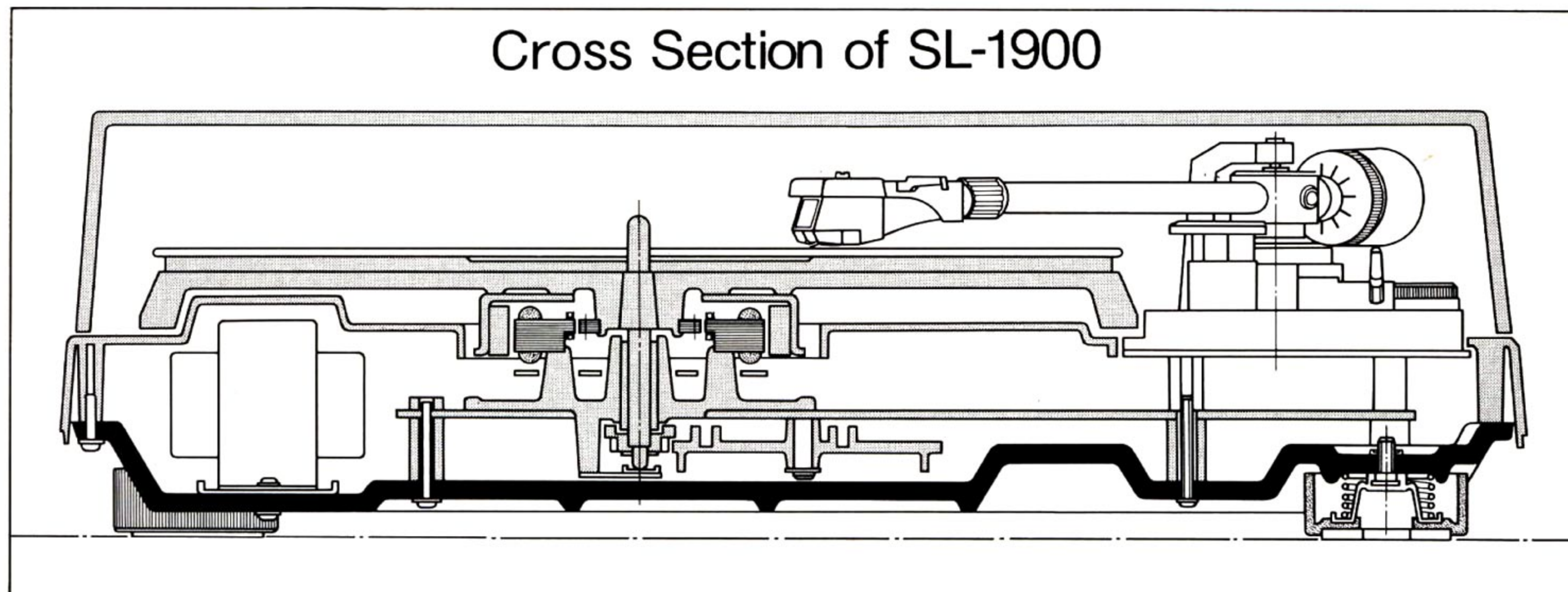
"One-Chip" IC-Controlled
Direct Drive Fully-Automatic
Turntable



SL-1900

The Direct Drive Fully-Automatic Turntable for the Cost-Conscious High Fidelity Enthusiast

Cross Section of SL-1900



Never before at this price has there been available a direct-drive turntable with these features. "One-Chip" IC control means virtually absolute reliability, while the direct-drive motor provides turntable performance unbeatable in terms of low wow & flutter and speed stability. Fully-automatic operation offers you tremendous convenience, and at the same time reduces possibilities of damaging your valuable cartridge. All in all an impressive package at a remarkably low price.

Ultra-Low-Speed Direct Drive Motor

The direct-drive of the SL-1900 eliminates the belts, wheels, and other drive elements required by conventional systems. These same belts and so on are notorious sources of vibration, resonance, and cyclical variations in speed. With only one moving part, the D.D. system does away with these sources of disturbance, to provide superbly smooth, constant platter rotation.

Integral Rotor-Platter Structure

To further simplify the turntable design, the platter and rotor are formed into a single, continuous unit. By eliminating a linkage point, this prevents the potentially disturbing effects of looseness or maladjustment between platter and rotor.

One-Chip IC, B-FG Servo Speed Control

The rotating speed of the D.D. motor is controlled by a "Back-Electromotive-Force Frequency Generator" (which we shorten to B-FG) servo system. Speed is constantly monitored, and if there is the slightest variance from rated speed, corrective force is immediately applied. The nerve center of this servo control system is a "one-chip" integrated circuit, which incorporates the equivalent of 321 elements in a minute, sealed package. The accuracy of control is not here today and gone tomorrow, being "locked-in" with electronic precision.

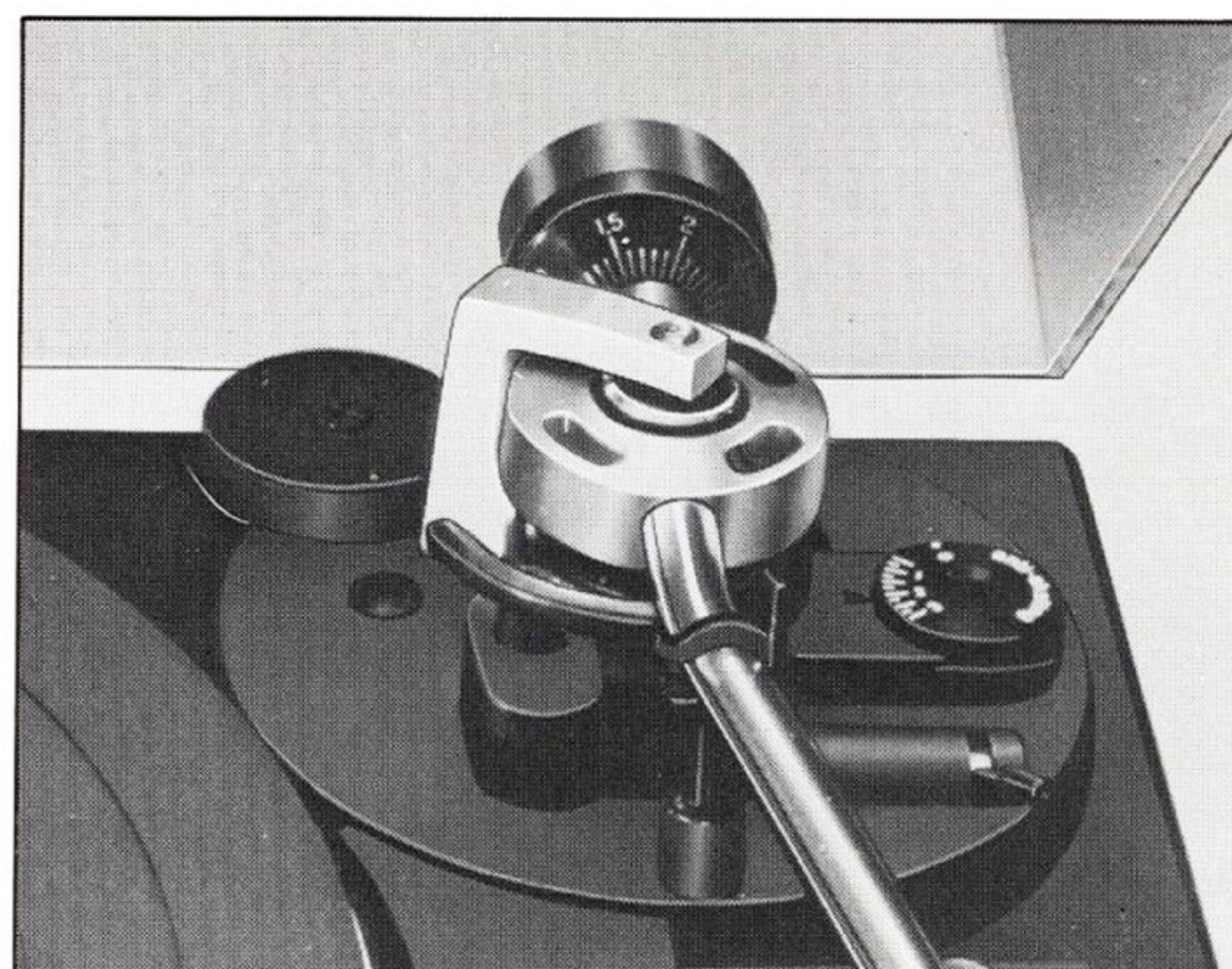
Quiet, Fully-Automatic Operation With Memo-Repeat

With fully-automatic operation, auto start, auto return, and auto stop can all be activated with a simple flick of the auto start lever. Records will automatically be repeated up to six times, or indefinitely when the Memo-Repeat dial is set. With automatic control the tonearm is returned to the rest and the turntable is shut off when the end of the record is reached. Though fully-automatic, your SL-1900 will operate with whisper quietness.

Sensitive Gimbal Suspension Tonearm

A highly-sensitive gimbal suspension

tonearm is provided to allow the use of high-compliance premium cartridges. The force to overcome static friction of the gimbal bearings is only 7 mg, an extremely low figure which Technics reached by having rolling elements of the bearings manufactured under strictest quality control in our own factory.



Newly Developed Base Material

The newly-developed heavy-duty turntable base molded from plastic, fiberglass, and other materials provides the ideal combination of resonance damping and stability in an attractive, slim design. The composition of the base, and the isolators in each of the turntable's feet, provide excellent resistance to feedback effects, even at very high volume levels.

New Type MM Cartridge

The EPC-270C-II moving magnet cartridge employed in the SL-1900 features the new CKS magnetic material, a low effective mass, and high compliance matched with good stability and linearity, assuring accurate tracing.

- Strobe Lamp with Markings
- Pitch Control with 10% Variable Range
- Anti-Skating/Oil-Damped Cueing
- Hinged, Detachable Dust Cover

Technical Specifications

TURNTABLE SECTION

Type	Direct-drive fully-automatic turntable
Motor	Back-Electromotive-Force Frequency Generator servo DC motor
Turntable platter	Aluminum diecast, 31 cm (12 $\frac{1}{8}$ ") diameter
Turntable speeds	33 $\frac{1}{3}$ and 45 rpm
Speed change method	Electronic change
Variable pitch controls	Individual adjustment controls, 10% adjustment range
Wow and flutter	0.03% WRMS (JIS C5521) $\pm 0.042\%$ weighted zero to peak (DIN 45507)
Rumble	-50 dB (DIN 45539A) -73 dB (DIN 45539B)

TONEARM SECTION

Type	Universal S-shaped tubular arm,
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	static-balanced type, direct-reading tracking force adjustment, with anti-skating force control device, oil-damped cueing device
Effective length	230 mm (9 $\frac{1}{16}$ ")
Overhang	15 mm ($\frac{1}{2}$ ")
Friction	7 mg (horizontally and vertically)
Tracking error angle	Within $+3^\circ$ (at edge of 30 cm or 12" record), $+1^\circ$ (at center of 30 cm or 12" record)
Offset angle	21.5°
Adjustable tracking force	0~3 g (direct-reading)
Cartridge range	5.5~9.5 g
Headshell weight	9.5 g

CARTRIDGE SECTION

Type	Moving magnet stereo cartridge
Output voltage	3.2mV at 1 kHz, 5cm/sec. zero to peak lateral velocity

	(4.5mV at 1 kHz, 5cm/sec. zero to peak 45° velocity)
Channel separation	25 dB at 1 kHz
Channel balance	Within 2 dB at 1 kHz
Recommended tracking force	1.75 $\pm$ 0.25 g
Load impedance	47 k Ω ~100 k Ω
Stylus tip	Diamond
Cartridge weight	6.0 g
Replacement stylus	EPS-270ED
GENERAL	
Power supply	110V/120V/220V/240V, 50/60 Hz
Power consumption	4.5W
Dimensions (W x H x D)	43.0 x 13.7 x 33.4 cm (16 $\frac{15}{16}$ " x 5 $\frac{3}{8}$ " x 13 $\frac{1}{8}$ ")
Weight	7.2 kg (15.9 lbs.)



Technics
Matsushita Electric