

Technics

The science of sound

SL-D30/D20



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Archiv Michael Otto

Technics SL-D30
Direct Drive Automatic Turntable System

Direct Drive Turntables
with Plug-in Connector System



SL-D30

New Plug-in Cartridge Connector System Gives Technics Direct Drive Turntables even More Advantages than before

The basic advantages of Technics direct drive turntables are well established. Their reliable direct drive decreases wow and flutter to a remarkable low, while the solid TNRC (Technics Non-Resonant Compound) mounting base stops annoying vibration and feedback. Now there is an exciting advantage to add to the already superb direct drive. The Technics plug-in cartridge connector system. With this standard connection system you can enjoy experimenting with a wide variety of cartridges. And you can do so without any of the typical hassle that usually accompanies ordinary cartridge mounting. Plus, since plug-in cartridge's major specifications are standardized, perfect cartridge-tonearm matching is assured.

Plug-in Cartridge Connector System

Remember all the adjustment and details you had to attend to just to get your present hi-fi turntable ready to play records. You had to put on the counterweight, attach the cartridge and headshell, adjust tracking force, anti-skating . . . And what if the cartridge wasn't already in a headshell? Then you had to deal with those tiny lead wires, screw the cartridge onto the

headshell, make sure it was angled correctly, and then adjust overhang. All this when you just wanted to listen to some good music. The Technics plug-in connector system lets you do just that. The cartridge plugs directly into the tonearm without any lead wires or headshell. Just plug it in and you're ready to go. Now, weight, tracking force, and connector shape are the same for all plug-in connector type cartridges from all manufacturers. Moreover, you can make tracking force and anti-skating force fine adjustments if needed, to compensate for highly modulated grooves, low room temperature, or excessive vibrations.

The ultimate in convenience? Yes, and this system also assures optimum performance by guaranteeing the perfect match between tonearm and cartridge. The low range resonance frequency is automatically located at the proper point (around 10 Hz) because we've calculated the compliance vs. effective mass equation beforehand. And the connection is mechanically and electrically secure, so you don't get signal loss or partial resonances. One additional benefit is our use of a low-mass, straight tonearm instead of the typical S-shaped universal arm intended for ordinary headshell connection. So, for convenience,

perfect cartridge/tonearm matching, and the fun of trying different cartridges from different top-class manufacturers, there can be only one conclusion—this new world standard plug-in connector system does it all.



Plug-in Connector System VS. Conventional Tonearm System

Items	Plug-in	Conventional
Headshell	None	Required
Lead Wires	None	Required
Cartridge Mounting	Easy	Complicated
Mounting Precision	Assured	Easy to make mistakes
Tracking Force Adjustment	Not Needed	Required
Anti-Skating Adjustment	Not Needed	Required
Cartridge-Tonearm Matching	Optimum	Hit or Miss



SL-D20

Gimbal Suspension

The new straight low-mass tonearms on the SL-D30 and SL-D20 feature our precision 4-point gimbal suspension. This excellent suspension design reduces friction to a mere 7 mg for horizontal and vertical movement. The resulting high sensitivity ensures that your stylus will track the record's groove accurately.

Highly Reliable Direct Drive

Consistently reliable and accurate turntable performance is what you come to expect from Technics. And it's what you get with the SL-D30 and the SL-D20 direct drive turntables. The integral rotor-platter construction of this unit assures dependable playing because the platter is directly connected to the motor. And the new flat coil design gives the unit a slim, sexy look with no compromise in rotational accuracy. Depend on the SL-D30 and the SL-D20. The full cycle detection FG servo constantly monitors the turntable's rotation and instantly corrects the slightest deviation in speed. The result is the remarkable wow and flutter of no more than 0.025% WRMS. And superb rumble rating of -78 dB.

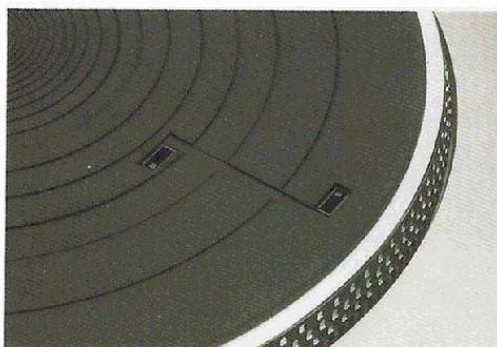
TNRC Helps Quiet Vibration and Feedback

Even when vibration and acoustic feedback are inaudible they can still seriously interfere with reproduction fidelity. The problem is difficult to solve because a cartridge that is sensitive to delicate groove modulations will also be sensitive to undesirable vibrations

from outside the turntable. Technics minimizes this problem by constructing the SL-D30 and SL-D20 bases of a specially developed material called TNRC. These bases actually absorb vibrations, damp resonances, and shut out acoustic feedback. You'll hear the difference in sonic clarity.

Fully Automatic Tonearm and Disc Size Selector (SL-D30)

The SL-D30 is completely automatic. And it employs a disc size detection system that senses the difference between record sizes and governs tonearm movement accordingly. All you have to do is put on a record and press the start button. The tonearm will automatically go to the correct lead-in groove of standard LP and EP records. At the end of the record the tonearm will automatically return to the arm rest and shut off. In addition, the tonearm will not leave the arm rest if you accidentally press the start button when there is no record on the platter. This avoids stylus and cartridge damage.



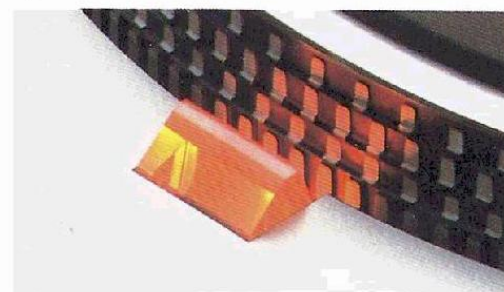
SL-D20 Semi-Automatic Turntable

If you are less interested in convenience but still demand superb

performance, the SL-D20 is the turntable for you. To operate this turntable you use the cueing lever to lower the tonearm onto the lead-in grooves (or any other location on the record). At the end of the record the tonearm returns to the arm rest and shuts off automatically. Simple and accurate, the mark of Technics.

Pitch Control with Illuminated Stroboscope

Both turntables are equipped with pitch controls that let you slightly alter the speed of the platter. This is especially useful if you want to analyze a section of a piece of music at a slightly slower speed or if you want your music to match the pitch of an accompanying instrument. The illuminated stroboscope and strobe markings will assure that you return to exact standard speed when desired.



Additional Features on the SL-D30/D20

- Repeat function on SL-D30.
- Fine tracking force and anti-skating adjustment (1.25 ± 0.25 g).
- All front panel controls including cueing.
- Aluminum diecast support portions for gimbal suspension.
- Ultra-slim design.

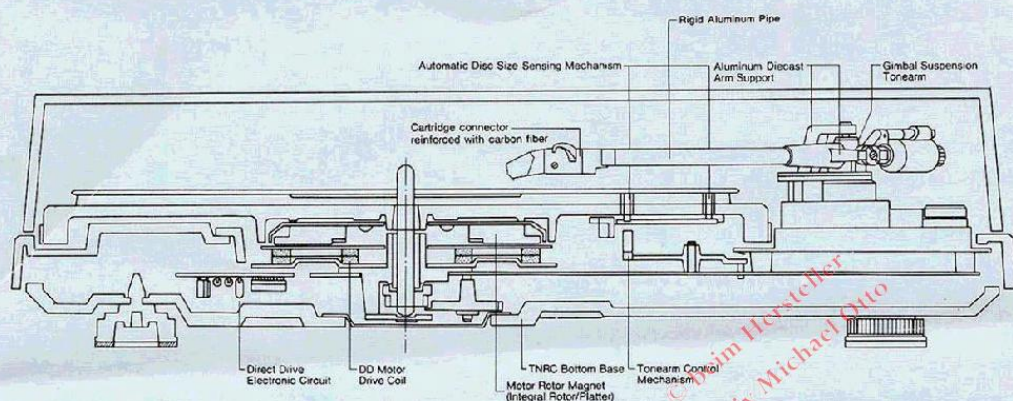


SL-D30 Direct Drive Fully-Automatic Turntable with Plug-in Connector System



SL-D20 Direct Drive Semi-Automatic Turntable with Plug-in Connector System

Cross Section of the SL-D30



Technics Plug-in Connector Cartridges **T4D**

Technics, Shure, Ortofon, and Audio-Technica already offer you a wide selection of plug-in connector cartridges in both MM and MC varieties. Soon other leading cartridge manufacturers will be adding their own models. Any one you choose will be a perfect match for the SL-D30 and SL-D20.



T4D is a trade mark for the plug-in connector system.

Technical Specifications

TURNTABLE SECTION

Type Direct drive
fully-automatic turntable (SL-D30)
semi-automatic turntable (SL-D20)
Motor Ultra-low-speed brushless
DC motor
Turntable platter Aluminum diecast
31.2 cm (12-9/32") diameter
Turntable speeds 33-1/3 and 45 rpm
Speed change method Electronic change
Variable pitch control 10% adjustment range
for either 33-1/3 or 45 rpm
Wow and flutter 0.012% WRMS*
0.025% WRMS (JIS C5521)
±0.035% peak (IEC 98A weighted)

Rumble
-78 dB DIN B (IEC 98A weighted)
-56 dB DIN A (IEC 98A unweighted)

ONEARM SECTION

Type Plug-in connector straight tonearm,
static-balanced type, with anti-skating
force control, oil-damped cueing
Effective length 230 mm (9-1/16")
Overhang 15 mm (19/32")
Friction 7 mg (horizontal and vertical)
Effective mass 7.5 g (without cartridge)
Tracking error angle
+0°32' at the inner groove of record
+2°32' at the outer groove of record

Offset angle 22°
Adjustable tracking force 1.25±0.25 g

GENERAL

Power supply AC 120 V, 50/60 Hz
Power consumption 6 W
Dimensions (W×H×D) 43×11×37.5 cm
(16-15/16"×4-11/32"×14-3/4")
Weight 4.8 kg (10.6 lb) (SL-D30)
4.7 kg (10.4 lb) (SL-D20)

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

Specifications subject to change without notice.

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