

Service Manual

Frequency Generator Servo Automatic Turntable System

SL-220 (X), (XAL), (E)
(XGE), (XG), (XGF)

SL-221 (E), (X), (XAL)
(XG), (XGF)



- The model SL-220(X) is available in Asia, Latin America, Middle East and Africa only.
- The model SL-220(XAL) is available in Australia only.
- The model SL-220(E) is available in Scandinavia only.
- The model SL-220(XGE) is available in England only.
- The model SL-220(XG) is available in Germany only.
- The model SL-220(XGF) is available in France only.
- The model SL-221(E) is available in Scandinavia only.
- The model SL-221(X) is available in Asia, Latin America, Middle East and Africa only.
- The model SL-221(XAL) is available in Australia only.
- The model SL-221(XGE) is available in European only.
- The model SL-221(XGF) is available in France only.
- SL-220 is of silver finish.
- SL-221 is of black finish.

Specifications

(Specifications are subject to change without notice for further improvement.)

General

Power supply: ~110-120/220-240V, 50 or 60 Hz
Power consumption: 30W
Dimensions: 43.0 x 12.6 x 37.5 cm
 (16-53/64 x 4-31/32 x 14-49/64 inch)
Weight: 4.5 kg (9.9 lb.)

Turntable section

Type: Frequency Generator Servo Automatic Turntable System (Automegem, Auto-stop)
Drive method: Belt drive
Motor: Frequency Generator Servo DC motor
Turntable platter: Aluminum die-cast, 30.4 cm (12")
Turntable speed: 33-1/3 and 45 rpm
Pitch controls: Individual adjustment controls, 6% adjustment range
Wow and flutter: 0-045% WRMS LEO (550/1)
 60.00% peak (17C SBA Weighoff)
Rumble: ~70 dB (17C SBA Weighoff)
Tonearm section
Type: Universal tubular arm, staticbalanced
Effective length: 220 mm (8-11/16")

Overhang:

15 mm (9/16")
Friction: Within 2 mg (horizontally and vertically)
Effective mass: 12 g (without cartridge)
Tracking error angle: Within 2°/32" (at the outer groove of 30 cm (12") record)
 Within 0°/32" (at the inner groove of 30 cm (12") record)
Offset angle: 22°
Adjustable stylus pressure range: 0 to 3 g (stylus pressure direct reading type)
Cartridge weight range: 5.5 to 9.5 g (14.5 to 21.5 g including headshell)
Headshell weight: 9 g

Cartridge section (for the SL-220A)

Type: Moving magnetic stereo cartridge
Frequency response: 20 to 25,000 Hz
Output voltage: 2.5 mV, 1 kHz, 5 cm/sec, zero to peak lateral velocity (0.2 mV, 33 Hz, 5 cm/sec, zero to peak) 45° record to 25 dB at 1 kHz
 Within 2 dB at 1 kHz
Channel separation: 47 dB to 100 dB
Load impedance: 1.75 to 0.25 g
Replacement stylus: CPS-2706-D

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Chitose, Osaka, Japan

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R Barnett



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