



Laboratory Standard Series

SOLID STATE DC INTEGRATED AMPLIFIER

An innovative realtime processed DC integrated amplifier with contemporary, simple appearance offering a true 100W per channel, both channels driven into 8 ohms, with no more than 0.02% total harmonic distortion from 20Hz to 20kHz.

L-11



ULTIMATE HIGH FIDELITY STEREO COMPONENTS



Pure DC Configuration

The most up-to-date DC configuration is used throughout the entire circuitry from the input stage to the final output stage, which effectively removes such transient or phase distortion caused by time factor.

Ultra-Low Notch Distortion

Annoying notch distortion is reduced to a negligible level equalling that of a class A amp, thanks to the parallel push-pull circuit which utilizes special ring emitter transistors which inherently offer outstanding linearity.

Good Tonal Quality

To prevent overall tonal degradation, the wiring is carefully arranged with the shortest length especially at the speaker terminals where large current flows. Speaker terminals can be selected by a muting relay to eliminate unnecessary contact points. A large, high-efficiency toroidal transformer is featured in combination with low impedance electrolytic capacitors, in the power supply section

Linear Equalizer and Low Boost

To give proper compensation to reproduced sound according to the recorded characteristics and room acoustics, etc., our exclusive linear equalizer and useful low boost are provided. These circuits are incorporated in the flat amp and are effective on all program sources.

Subsonic Filter

To remove such unwanted ultra low frequency noises as are caused by warps of disc, resonance of tonearm, phono-motor rumble, etc., the subsonic filter provides sharp attenuation characteristics (-12dB/oct.) at either 10Hz or 20Hz cut-off frequencies.

Use of MC (Moving Coil) Cartridge

The phono MC position permits use of a Moving Coil cartridge which has been gaining more popularity of late, together with our step-up transformer (8020 or 8030) available as option.

4-Gang Volume Control

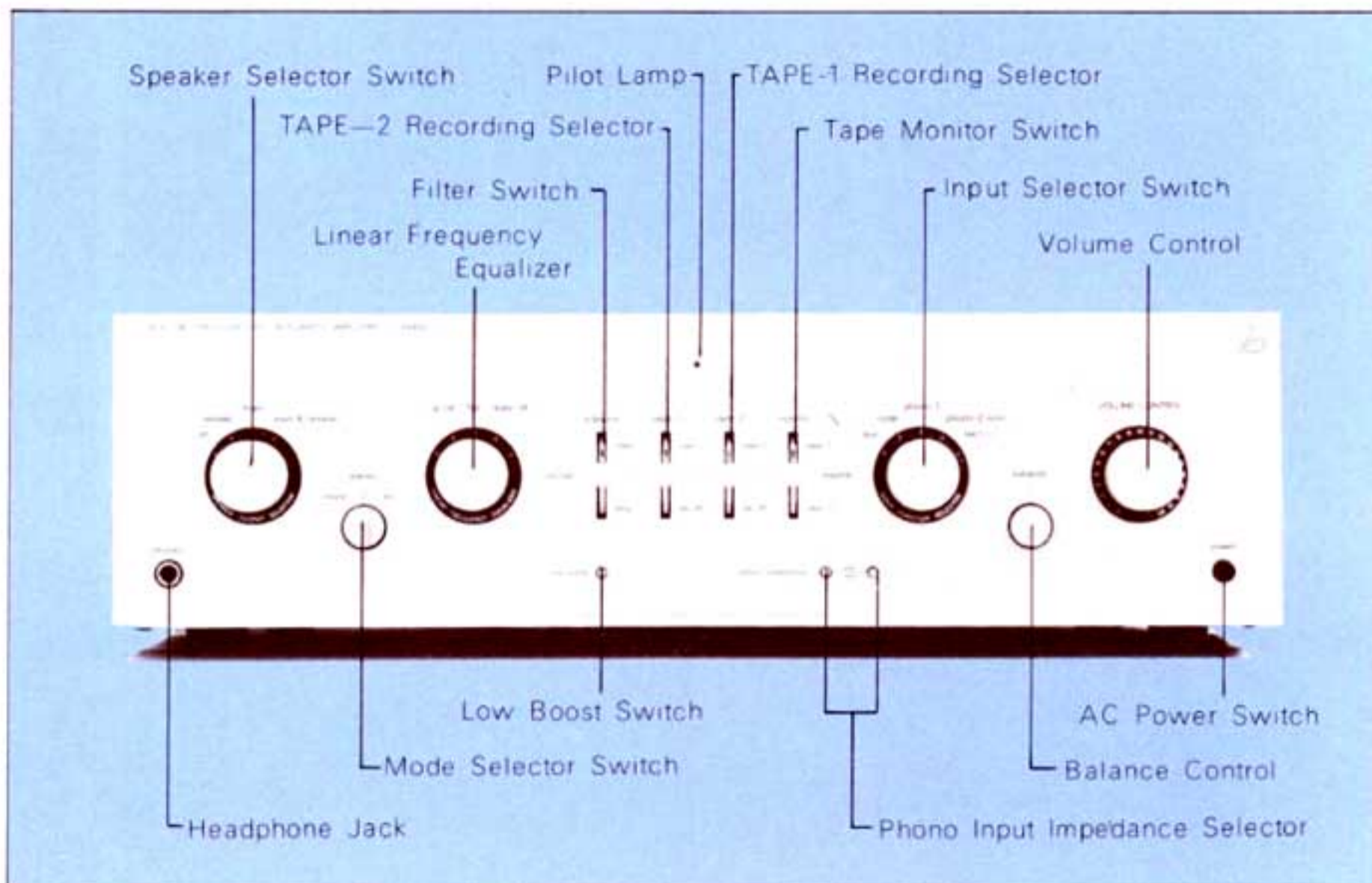
A precision 4-gang potentiometer is used to realize high S/N ratio and excellent overload characteristics, especially at the low volume level.

Electrostatic Speaker Connection

To hook up an electrostatic loudspeaker system, an exclusive selector switch is provided at the rear panel.

Dubbing and Recording-Off Selector

2 pairs of tape monitor circuits make it possible to dub from one tape to another. A Record-Off position is useful in preventing tonal deterioration of other program sources when a connected tape deck is turned off.



SPECIFICATIONS

Output Power: 100 watts minimum continuous per channel, both channels driven in 8 ohms load at any frequencies from 20Hz to 20,000Hz with no more than 0.02% total harmonic distortion.

Rated I.M.: no more than 0.02% (8 ohms, 100W/ch, 60Hz : 7kHz = 4 : 1)

Frequency Response:

PHONO	20Hz - 20,000Hz	(±0.2dB)
TUNER	10Hz - 90,000Hz	(-1dB)
AUX	10Hz - 90,000Hz	(-1dB)
MONITOR-1, -2	10Hz - 90,000Hz	(-1dB)
MAIN IN	3Hz - 100,000Hz	(-1dB)
MAIN IN (filter-on)	20Hz - 100,000Hz	(-1dB)

Slew Factor: no less than 5 (New IHF)

Dynamic Headroom: 2dB (8 ohms load, both channels driven) (New IHF)

Input Sensitivity:

PHONO-2 (DIRECT)	2.5mV	250µV (New IHF)
PHONO-1	2.5mV	250µV (")
TUNER	150mV	15mV (")
AUX	150mV	15mV (")
MONITOR-1, -2	150mV	15mV (")
MAIN IN	1.6V	160mV (")

Signal-to-Noise Ratio: (input short-circuited)

PHONO (DIRECT)	92dB (IHF-A weighted, 10mV)
TUNER	100dB (IHF-A weighted)
AUX	100dB (")
MONITOR-1, -2	100dB (")
MAIN IN	117dB (")

PHONO (DIRECT) S/N: better than 86dB (New IHF)

Input Equivalent Noise: (input short-circuited)

PHONO (DIRECT)	below -131dBV (IHF-A weighted)
TUNER	" -116dBV (")
AUX	" -116dBV (")
MONITOR-1, -2	" -116dBV (")
MAIN IN	" -117dBV (")

Phono Overload Voltage: 160mV (1kHz)

Preamp Output Voltage: PRE. OUT rated 1.6V
REC. OUT rated 150mV

Additional Features: Linear Frequency Equalizer, PHONO Impedance Selector (50k, 100k), PHONO-MC Position, Subsonic Filter, Electrostatic Speaker Filter, Tape Monitor (dual), Dubbing Circuit (with REC. OFF position), Speaker Selector Switch (by relay), Headphone Jack (selection by relay), Speaker Protection Circuit by sensing DC, Overcurrent Protection Circuit, Pilot Lamp Blinker, DIN Connector, Extra AC Outlet, Low Boost Circuit.

Dimensions: 438(W) x 395(D) x 125(H) mm (17-1/4" x 15-9/16" x 4-15/16") (including Legs, Rear Protrusions & Knobs)

Weight: Net 18.5 kgs (40.7 lbs.)
Gross 20.0 kgs (44.0 lbs.)

Specifications and appearance design subject to change without notice.

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