Laboratory Reference Series

LUXMAN 5L15

Stereo integrated amplifier

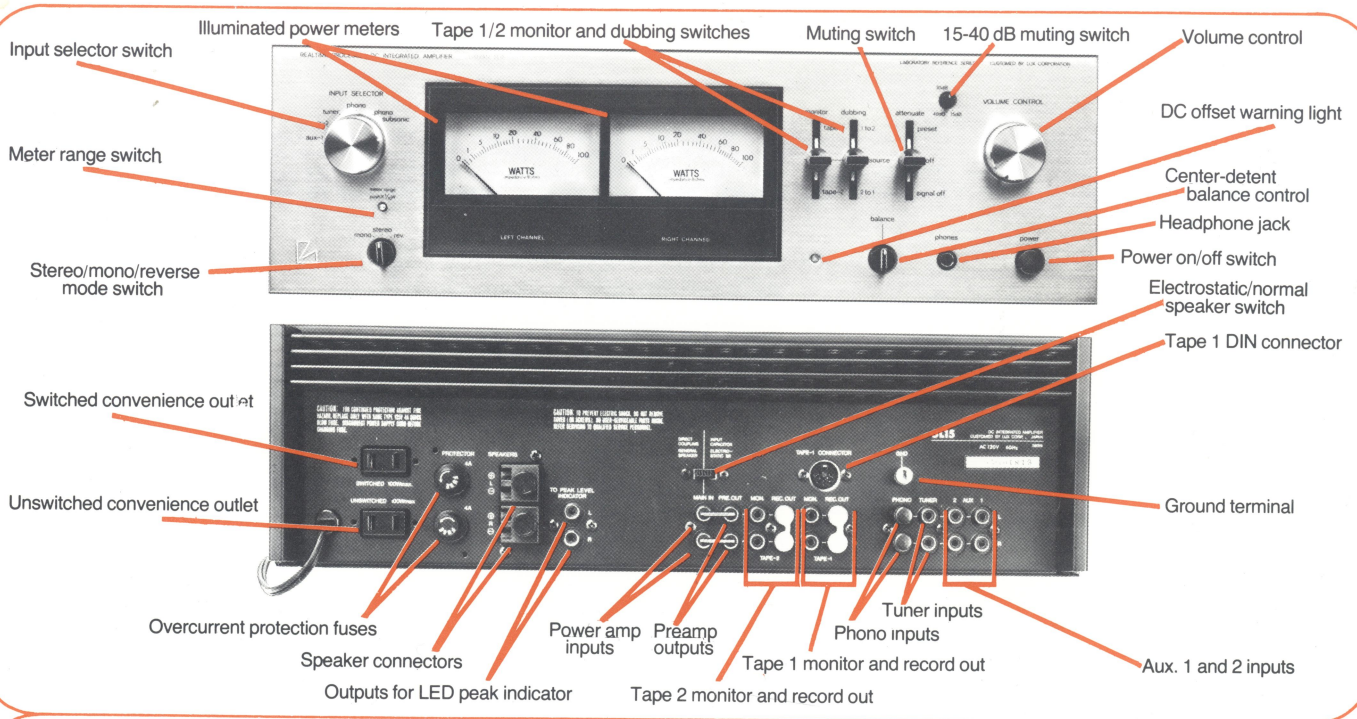
The Luxman 5L15 integrated amplifier is rated at 80 watts/channel minimum continuous power, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.02% total harmonic distortion. Intermodulation distortion is also a low 0.02% at rated output. Both the preamplifier and power amplifier sections are direct-coupled DC design, for high phase linearity, low transient intermodulation distortion and extremely wide-band response.

The preamplifier and power amplifier sections both include Dual Monolithic Linear Integrated Circuits (DML-ICs). These special, LUX-developed ICs eliminate the danger of DC drift and help achieve outstanding overall performance. A class AB output stage and high-speed transistors also contribute to high performance, eliminating crossover ("notch") distortion.

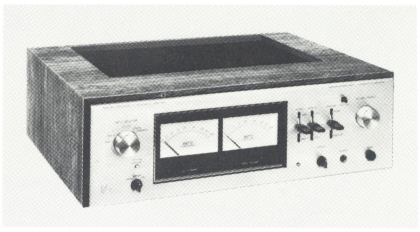
Connections are provided for tuner, two tape decks, two auxiliary sources and phono. A phono subsonic filter can be switched to cut turntable rumble. Dubbing and monitoring are provided for two decks, and separate program source listening is possible during tape-to-tape dubbing. A muting switch permits preset volume attenuation within a −15 to −40 dB range. And illuminated power meters have adjustable sensitivity, for full-scale readings at one-tenth of rated power output.

Two DC sensing circuits protect amplifier and speakers. If excessive levels of DC exist, a front-panel warning light goes on. A protective blocking capacitor can then be switched into the signal path. This switch also adapts the output for use with electrostatic speakers.

Overall dimensions are standard for rack mounting, and optional mounting brackets are available. The unit's integral metal enclosure is specially designed to nest compactly with other LRS components. An optional vinyl-clad, simulated wood-grain enclosure is also available.



- **Both preamp and power amp** sections are direct-coupled DC design, for high phase linearity and low transient intermodulation distortion.
- **New, LUX-developed** Dual Monolithic Linear Integrated Circuits (DML-ICs) eliminate the danger of DC drift.
- **Class AB output stage** combines the advantages of both class A and class B, eliminating notch distortion while maintaining high efficiency.
- **Tape monitor and dubbing switches** are provided for two decks. Listening to a separate program source is possible during tape-to-tape dubbing.
- **Phono subsonic filter,** with a cutoff at 17 Hz, eliminates turntable rumble.
- **Muting switch** provides instant volume attenuation, with preset range from −15 to −40 dB. Signal-off position provides complete muting.
- **Illuminated power meters** provide indication of average power output, and a meter range switch permits monitoring both high- and low-output levels. With the switch depressed, meters read full-scale at one-tenth of rated power.
- **Speaker and amplifier protection** circuitry includes a DC input sensor and DC drift sensor, with a warning light to indicate excessive DC levels. When the warning light goes on, a protective blocking capacitor can be switched into the signal path. Turn-on time delay muting also safeguards speakers, and an overcurrent protection circuit safeguards amplifier electronics.
- **Rear-panel capacitor switch** adapts output for optimum use with electrostatic and other low-impedance speakers.
- **Separate preamp outputs** and power amp inputs permit versatile system connections.



5L15 shown in optional vinyl-clad, simulated wood-grain cabinet.

PERFORMANCE SPECIFICATIONS

Preamplifier section

S/N ratio:
Phono: greater than 80 dB below 2.5 mV (IHF "A" weighted)
Tuner, Aux. 1/2: greater than 100 dB (IHF "A" weighted)
Frequency response:
Phono: RIAA, ±0.2 dB
Tuner, Aux. 1/2: DC to 100 kHz, ±1.0 dB
Input sensitivity:
Phono: 3 mV
Tuner, Aux. 1/2: 300 mV
Output voltage:
Preamp out, rec out: 300 mV, rated

Power amplifier section

Power output: 80 W minimum continuous per channel into 8 ohm loads, both channels driven, 20 Hz to 20 kHz, with no more than 0.02% total harmonic distortion.
I.M.D.: 0.02% at 80 W per channel, 8 ohms (60 Hz: 7 kHz=4:1)
Damping factor: greater than 80 (1 kHz, 8 ohm load)
S/N ratio: greater than 100 dB (IHF "A" weighted)
Frequency response: DC to 100 kHz, ±1.0 dB

General

Power consumption: 380 W (8 ohms, maximum rated output)
Dimensions:
(mm): 442 W x 400 D x 146 H
(inches): 17.7 W x 16 D x 5.8 H
Weight: 13.3 kg (29.3 lbs.)

LUX Audio of America, Ltd.

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