

ULTIMATE HIGH FIDELITY STEREO COMPONENT

LUXMAN

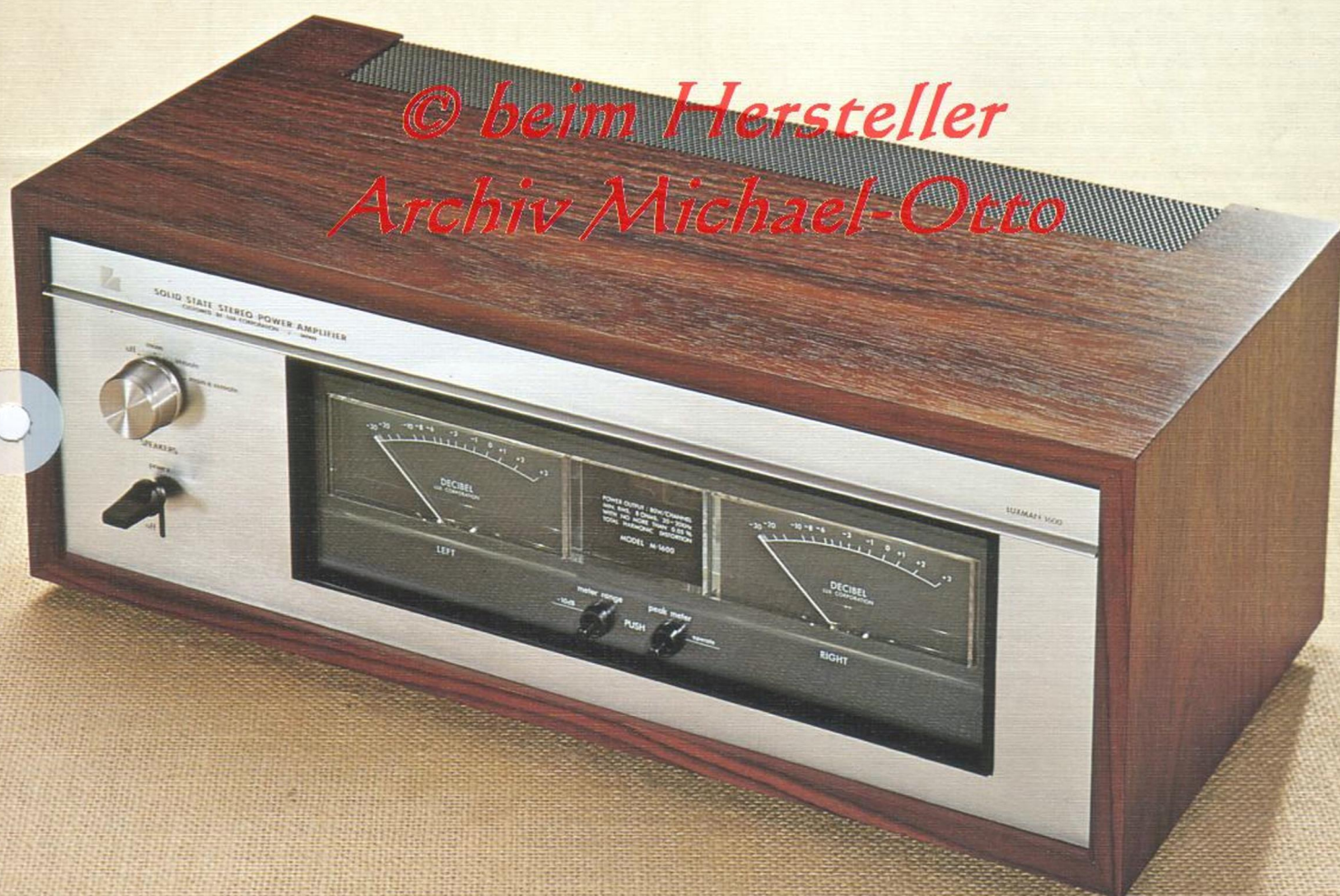
MODEL M-1600

1600

SOLID STATE POWER AMPLIFIER

Following the same distinguished appearance design of the former M-150, LUXMAN now introduces the upgraded M-1600 with a bigger output power under unique techniques applied to the prestige power amplifier M-6000.

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Archiv Michael-Otto*



TECHNICAL FEATURES

Main Amplifier Section

The M-1600 is a stereo power amplifier of fully complementary direct coupled OCL circuitry to provide big output with low distortion.

At the output stage, fully complementary circuit is realized by arranging large capacity power transistor of NPN and PNP type, thus providing mighty 80 watts RMS per channel.

2 stages of differential amplifiers are adopted in the pre-driver circuit, and constant voltage is applied to the emitters of the first differential amplifier to ensure stable performance against possible fluctuation of AC line voltage or temperature drift.

Also at the first stage differential amplifiers, used are specially selected transistors with good linearity, high overload characteristic, low noise and high f_T .

Further by applying the constant current driving to the two differential amplifiers, stable and low-distorted operation is realized throughout all audible frequency range.

A constant current emitter-follower stage is placed annexed to the pre-driver circuit to electrically insulate the pre-driver stage of the Class "A" operation from the power stage of the Class "B" operation.

Peak Indicating Meter

The big peak indicating meter is adopted to indicate accurate peak value according to the acoustic levels. Additionally the meter sensitivity can be selected. In case the Selector Switch for Peak Indicating Meter Sensitivity is at the protruded position, the "0dB" calibration on the meter is equivalent to 80W output power, while at the pressed-in position it is equivalent to 8W. Therefore it is easy to watch the precise output power at any output level.

The response time of the meter is set at approximately 10 mili sec. to indicate the precise peak value against the pulsive signals exceeding 10 mili sec. Further a certain time is given to the meter-recovery to allow easy-to-read peak display for precise output power monitoring.

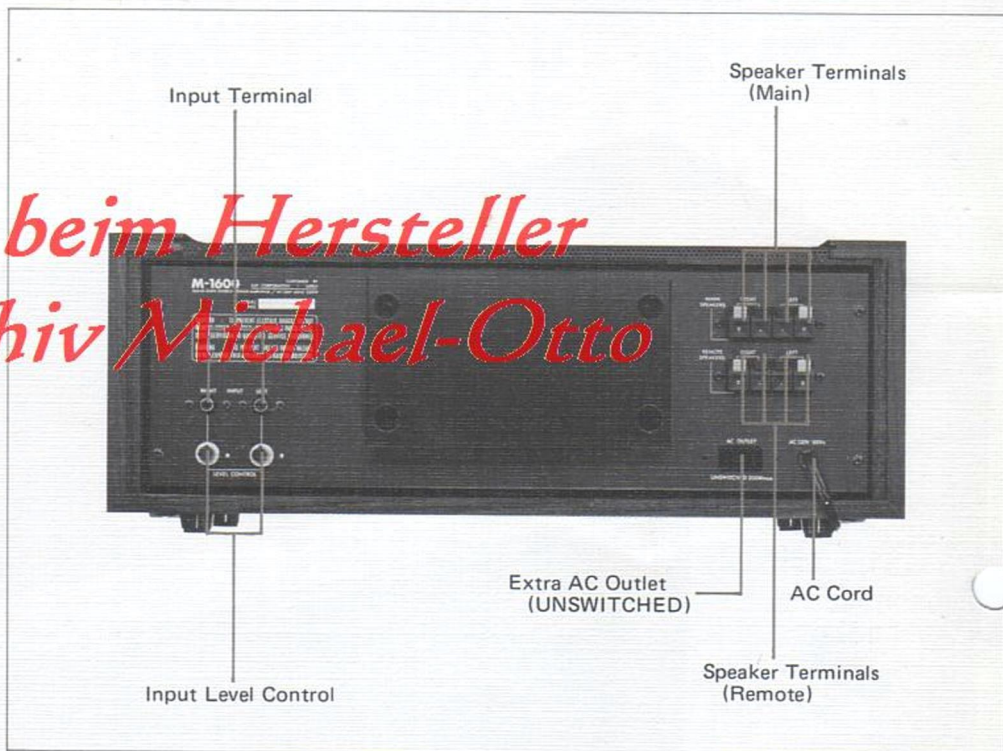
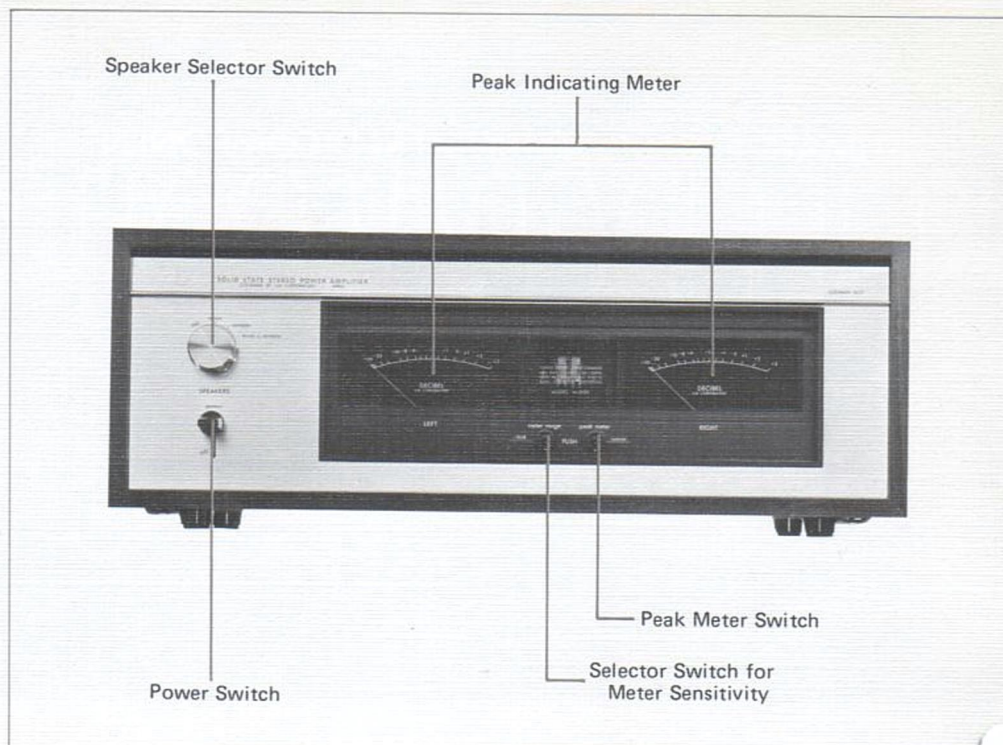
Muting Circuit & Protector

This removes unwanted switch-on thumps from the loudspeakers, and at the same time safeguards your loudspeakers from accidental damage. For this purpose, the amplifier is muted for 3 - 10 secs at the time of turning the power switch on. Further the Muting Circuit includes the DC Drift Sensing Circuit as a protector, which is operated when DC $\pm 3V$ is detected at the speaker terminals, and will recover automatically.

MECHANICAL FEATURES

A bronze anodized brushed aluminium front panel is set into an elegant rosewood cabinet. The front panel has the two peak indicating meters centered above the meter range switch, the peak meter switch and — to the left of the panel — the power switch and speaker selector switch.

The back panel features input and speaker terminals, level controls and extra AC outlet. The cabinet is designed to match the LUXMAN CL350 control center and the T-550V tuner.



SPECIFICATIONS

Power Output:	80 watts minimum continuous per channel into 8-ohm loads, both channels driven, at any frequency from 20 - 20KHz with no more than 0.05% total harmonic distortion.
Rated I.M.:	no more than 0.05% (8-ohm, 80W/ch, 60Hz: 7KHz = 4 : 1)
Frequency Response:	10 - 50,000Hz (+ 0dB, - 1dB)
Residual Hum & Noise:	-100dB
Crosstalk:	better than -70dB
Input Sensitivity:	700mV
Input Impedance:	33K ohms
Damping Factor:	50 (8-ohm, 1W)
Power Consumption:	350W (at full power, 8-ohm)
Dimensions:	476(W) x 257(D) x 182(H)mm (18-3/4" x 10-1/8" x 7-1/6")
Weight:	Net 16.5Kgs (36.3 lbs.) Gross 18.5Kgs (40.7 lbs.)

Specifications and appearance design subject to possible change without notice.

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