

ULTIMATE HIGH FIDELITY STEREO COMPONENT

MODEL CL35/III

LUXMAN

35/III

STEREO CONTROL CENTER

To cater for the specific requirement of sophisticated audiophiles this pre-amplifier was designed under full command of perfect knowledge about existing tubes.

*© beim Hersteller
Archiv Michael-Otto*



The advantage of tube amplifier depends on the maximum utilization of optimum characteristics of the tube, and the charm of this CL35III exists in this very point.

You will certainly discover afresh listening pleasure to the tube amplifier as full facilities are provided in this amplifier to say nothing of excellent tonal quality.

CIRCUIT PERFORMANCE

The equalizer circuit is composed by 3 stages of triode tube under K-K NF system.

The input voltage at 1kHz is procured at 400mV and that of the treble range exceeding 2kHz was noticeably improved, for instance, 1.5V at 10kHz (0.5% distortion).

Careful attention is paid to equalizer response which is kept within deviation of 0.3dB through the range of 30-15,000Hz.

Detailed analysis and minute study are rendered to the following intermediate amplifier section, tone control stage, cathode follower stage to minimize 2nd and 3rd harmonic distortion at ordinary output levels (100 — 300mV), and the maximum linearity is obtained.

Tone controls are LUX's exclusive NF type with 3 turn-over selection points at both treble and bass which make it possible to make subtle adjustment of reproduced tone.

Also you can bypass this stage by the defeat switch if tone controls are not required.

Both the high and low filters have selectable 2 cut-off frequencies with the slope of 12dB/Oct, and these cut-off frequencies are carefully chosen to reduce noise and distortion most effectively without giving any effect on the program source.

The output stage is composed by the cathode follower where special device is adopted to obtain stable output voltage against fluctuation of power supply voltage.

Of course the output impedance is kept low and optimum output stage is designed for connection with the power amplifier. (So long leads can safely be used)

At the power supply stage improvement is made in respect of the power supply system to the equalizer stage and mixture of external noise is lowered.

Further a time-delay circuit is provided to eliminate the possible switching thumps, therefore this amplifier is muted for about 25 sec. after the power switch is turned ON.

FUNCTION

A special control so called low frequency trimmer offers a subtle adjustment (± 0.8 dB at 250Hz) of the frequency range 150 — 300Hz, which makes it possible to tailor the response in this very critical region to match the amplifier, speakers and room, e.g., any chestiness in the male voice can be effectively reduced.

This control is provided after the equalizer stage and does not effect the tape-recorder output.

A headphone amplifier is incorporated so that monitoring can be made by using only this control amplifier.

The maximum output is 60mW (8 Ω).

2 separate record/playback systems are provided to enable simultaneous use of 2 tape-recorders.

Dubbing from tape to tape is feasible by the special switch provided.

The attenuator switch reduces the gain by 20dB (1/10), which can be used as momentary silencing device in the case of telephone call etc.

Both RCA and standard jack sockets are provided for microphones.

The input impedance to the phone 1 can be adjusted by the switch, while for the phone 2 the

input sockets are provided for the moving coil cartridge transformers which can be switched off if not necessary.

For the Aux 1 and Aux 3 inputs are fitted the variable volume controls to obtain matching to the output level of tuner or cassette recorder etc.

OVERALL DESIGN/MECHANIC

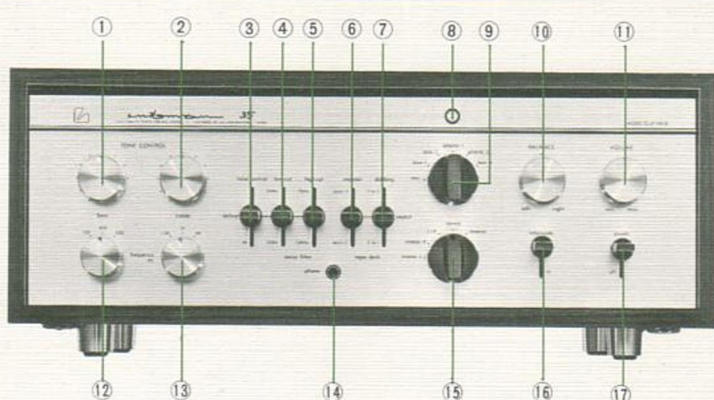
The beautifully finished wooden cabinet matches the elegant silver smoked front panel.

All the switches and controls are logically arranged for easy operation.

All components are specially selected and fixed to the printed circuit to ensure uniformity and stability in performance.

Replacement of the tubes is accessible when the back cover is removed, where the low frequency trimmer and level control for the headphone are also provided.

- 1 Bass level control
- 2 Treble level control
- 3 Tone control switch
- 4 Low cut filter
- 5 High cut filter
- 6 Monitor switch
- 7 Tape reprint switch
- 8 Pilot lamp
- 9 Input selector
- 10 Balance control
- 11 Volume control
- 12 Bass turnover switch
- 13 Treble turnover switch
- 14 Headphone jack
- 15 Mode selector
- 16 Attenuator
- 17 Power switch



- 18 Step-up transformer socket
- 19 In-out switch for step up trans.
- 20 AUX-3 level
- 21 Input impedance selector
- 22 AUX-1 level
- 23 GND terminal
- 24 Tape connector
- 25 Output level control
- 26 Low frequency trimmer
- 27 Headphone level
- 28 AC outlet (unswitched)
- 29 AC outlet (switched)
- 30 AUX-3 terminal
- 31 PHONO-2 terminal
- 32 PHONO-1 terminal
- 33 AUX-2 terminal
- 34 AUX-1 terminal
- 35 MIC. terminal
- 36 MIC. jack
- 37 TAPE-1 terminal



- 38 REC. out-1
- 39 TAPE-2 terminal
- 40 REC. out-2
- 41 Output terminal
- 42 Fuse holder
- 43 AC power connector

SPECIFICATIONS

Tubes:	12AX7 (6), 12AU7 (1)
Frequency Response:	15Hz — 40,000Hz (—1dB)
T.H.D.:	no more than 0.06% (rated output: 2V)
Output Voltage:	Max. 15V (distortion 0.3%)
Output Impedance:	550-ohm
Input Sensitivity: (output; 1V, output level max.)	phono-1 1.4mV, phono-2 1.4mV, aux-1 140mV (variable), aux-2 140mV, aux-3 140mV (variable) microphone 0.5mV
Input Impedance:	phono-1 100Kohm, 50Kohm, 30Kohm; phono-2 50Kohm aux-1 100Kohm; aux-2 150Kohm; aux-3 100Kohm; microphone 50Kohm
S/N Ratio:	better than 64dB (phono-1 & 2); better than 77dB (aux-1 & 2 & 3); better than 60dB (microphone)
Equalizer:	R.I.A.A. (standard deviation $\pm 0.3\%$)
Tone Control:	LUX type NF system with defeat position Bass: 150Hz, 300Hz, 600Hz; Treble: 1.5KHz, 3KHz, 6KHz
Filter:	Low cut 25Hz, 60Hz; High cut 7KHz, 12KHz
Low Frequency Trimmer:	100Hz — 800Hz (± 0.8 dB, 250Hz)
Attenuator:	—20dB
Accessories:	Tape Monitor Circuit, Phono Input Impedance Selector, Socket for step-up transformer, Headphone Circuit
Dimensions:	476 (19-1/25")W x 275 (11")D x 190mm(7-3/5")H
Weight:	Net 12Kgs (26.40 lbs), Gross 14Kgs (30.8 lbs)

Specifications and appearance design subject to possible change without notice.

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