

LUXMAN

INTEGRATED AMPLIFIER

L-509f SE

(Special Edition)



LUXMAN CORPORATION

Special edition appeared only one time in one's lifetime Luxman L-509f SE reaching a new peak

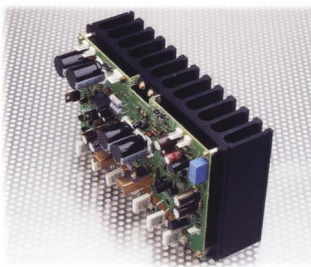
Gourde's Buch, Furtwangler's Beethoven and Klass's Verdi. The former music giants have all contributed famous epoch-making works. Although they have occupied the dominant positions in their respective kingdoms, they are not contented with the existing positions and challenged for much higher places. The famous performance which could be called the special edition appeared only one time in the lifetime was born like this way.

Aiming at the much higher peak in the far distance, the Luxman standing on the top of integrated amplifier sector with its L-509f, is charging for the new peak---the development of new L-509f SE. This is nothing but a confidence on the realization of the

unexpressed possibility. The L-509f SE is a progressive product of flagship model L-509f aiming at separate amplifier, or more exactly, pursuing "one-body-separate" quality. Especially, while improving the driving power of pre-section under the concept of power amplifier drive, the overall circuit was re-studied, the selection of each part, sound quality, as well as the grade of artistic design are thoroughly examined again, at last the incomparable accomplishment was obtained. Then comes out the real high-end integrated amplifier with a brand-new plaster while finish suitable for the status of the special edition. And a new peak of Luxman was created too.

Pursuing the power scale directly connecting with leaping feeling, achieving 240W+240W(4Ω)

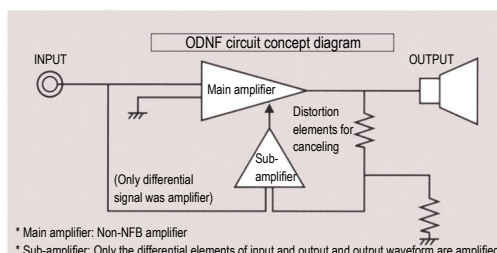
For pursuing the drivability vividly reproducing the life feeling of music, L-509f SE has won the excellent driving power when meeting with lower impedance. By adopting 3 parallel push-pull power transistors, the boundless driving power as high as 160W+160W(8Ω) and 240W+240W(4Ω) is achieved. Furthermore, the high grade music reproduction which could give varieties of speakers full plays of their individualities becomes available.



The ODNF power block with glass board adopted

Pre-amplify part was generously built in with ODNF type's power amplifier drive functions

Luxman's control amplifier does not only own the high grade input select and the volume control functions, but could also play an important role as power amplifier drive. Namely, the power amplifier could prepare the signal conditions for ideally driving. In the pre-amplifier part of L-509f SE, the power amplifier drive competing with the separate amplifier by its ODNF type circuit construction was discretely built in. From the delicate leaping feeling of music and the strength of sound full of life force, one could experience a new music reproduction world surpassing the original pre-main field.



The version of ODNF with a high opinion was upgraded and the brand-new sound quality tuning was put into practice.

The ODNF (Only Distortion Negative Feedback) circuit that deletes the phase perfection circuit and NFB from the transferring path of music signal and just separates and cancels the distorted elements is an epoch-making audio technology constituting the core of Luxman's [f] series. The ODNF Version 2 called as the second generation of ODNF circuit was adopted in power amplifier block of L-509f SE. The initial slewing rate feature full of instant explosive force which is for lively reproducing the abundant lingering charm of Steinway, and the nuance of the dignified and multicolored sounds of Stradivarius was more mature. The aim lies in restudying the overall circuits thoroughly on the basis of the evolution of this circuit technology.

The perfecting ultimate volume was adopted in main volume

The problems which are pointed out about the distortion caused by the leaking current at contacts and the contact material are found in the ordinary volume control. The ultimate volume with a super-lower distortion rate and a high rigidity construction, and enjoying an excellent opinion and built in the control amplifier C-9IICustom/C-8f was adopted in L-509f SE. By collecting the high functions such as a synchronization error of $\pm 0.5\text{dB}$ (0-95dB) in L/R two channels and a maximum decrement of $<-120\text{dB}$, the perfecting volume control was realized without any spoiling of music source information.

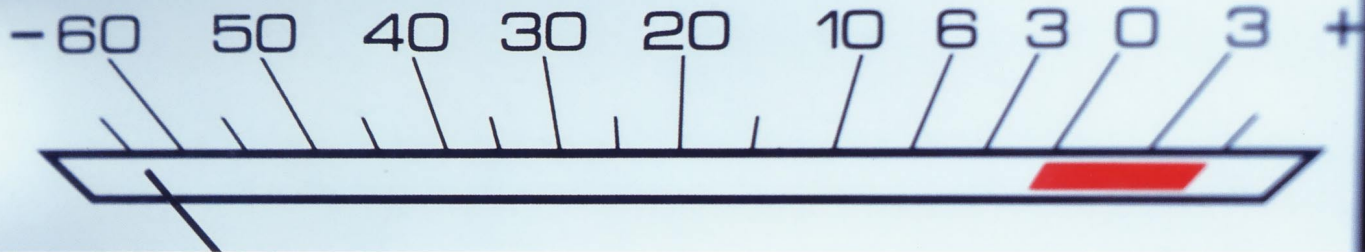
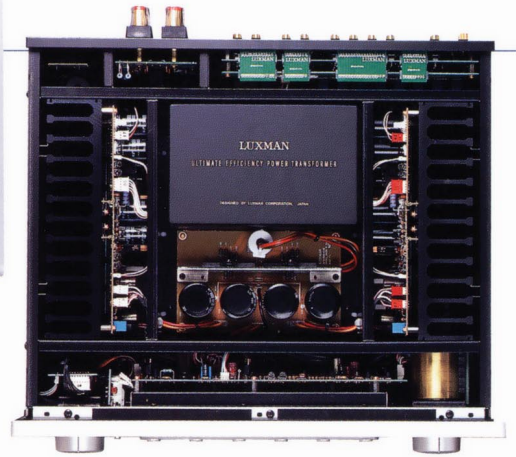


The selector of direct drive without any damage to music information volume

By the adoption of the high grade relay specially used for audio in varieties of function selectors of L509f SE, the operation via direct driving could be realized via no any other extra mechanism. The contact resistance of relay contact was kept down to the limit via the special processing technology of contact surface. The function switching could be carried out without any damage to the informational volume of music.



INTEGRATED AMPLIFIER L-509f SE

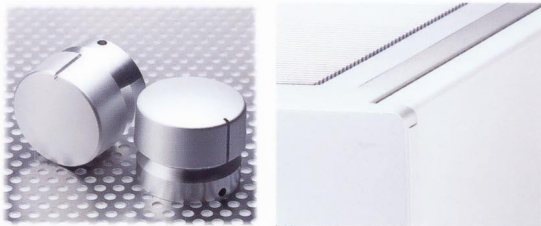


Separating pre-power just by one touch, matching to the varieties of system-ups.

Viewing from the system development in the future, pre-main separate type design will be adopted. It could not only separate the functions of pre-section and main-section respectively and make a flexible use of them, but could also upgrade them to the level of separate system by integrating other power amplifier and control amplifier. And by adding power amplifier, it is able to expand to the modes of bi-amplifier and multi-amplifier. The L-509f SE could easily finish the separation of pre-circuit between main-circuit just by the turning of switch on the front panel.

The delicate artistic design of plaster white directly transfers the feeling of the reproduction of high purity music

The developer's enthusiasm pouring in the special edition was reflected in the delicate design of L-509f SE. The appearance design has renewed the [f] series of original integrated amplifier, and specially adopted the plaster white finish full of high-grade feeling. From the beautiful and silvery appearance reminding the reproduction of high purity music, and from the tactile sensation earning from the high-grade operation feeling, one could actually feel the special existence value



The devotion in every part of the machine will form the real value of the special edition

On the parts directly exerting impact on the music signal, the high purity 6N grade wire material was adopted. Thus the impedance feature of circuit was upgraded greatly.

The capacity of power transistor was increased much than L-509f, the high regulation type of 700VA was adopted. It could match to the instantaneous power supply for fitting the expressions of music changing at every minute.



Large-scale block condenser customized after times of trial hearing.



The power transistor with a heat-releasing structure for supporting stable big output.

Speaker terminal was installed with large-scale speaker terminal newly developed for matching the banana plug and Y lug terminal with large caliber. It is applicable to the wiring of high-grade cable of high-end machine.



In output part, damping factor was greatly upgraded by connecting the large capacity relays in parallel. The music covering broad dynamic ranges could be liberated as it was.

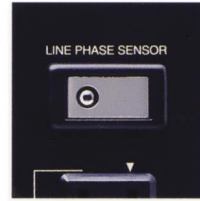
In amplification circuit board, the FR-4 glass epoxy resin with minimized capacity content was adopted. So the mutual interference between the basic board of each circuit with high insulativity was successfully reduced to a big extent.

The guarantee period of L-509f SE is extended from the normally 2 years to 5 years. As an expression of our self-confidence about the quality of special edition, we warrant a long service life of audio for users.

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L-509f SE



Line phase sensor that could detect the polarity of AC power source. It is usually set in correct polarity.



The AC inlet type that makes the power input be easily connected with. It also could match to the Luxman 10000 series power cable.

Diagram of overall higher harmonic distortion rate characteristic

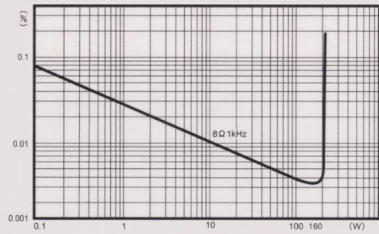
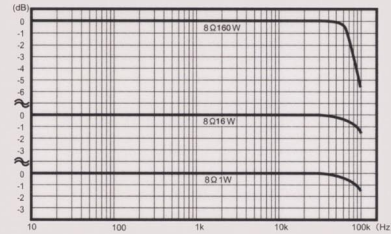


Diagram of frequency characteristic



LUXMAN INTEGRATED AMPLIFIERS

L-509f SE SPECIFICATIONS



L-509f



L-507f



L-505f