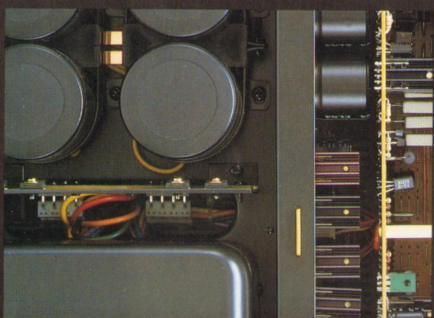
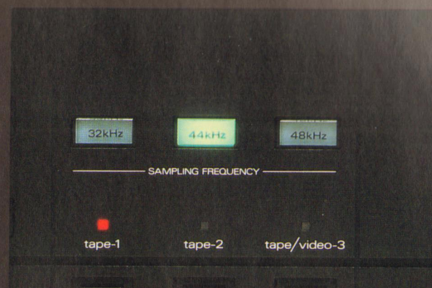
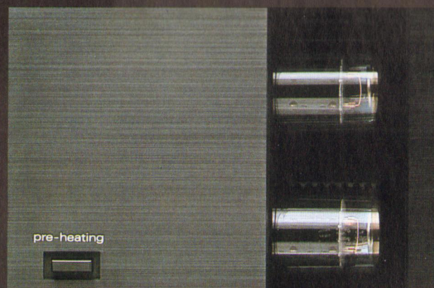


LUXMAN

ULTIMATE FIDELITY SINCE 1925
AUDIO COMPONENTS
1987/1988



LUX CORPORATION



Fidelity, And Nothing But Fidelity

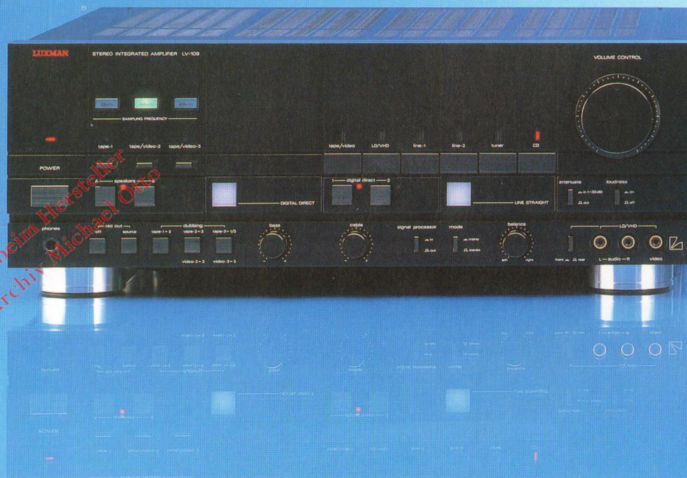
For more than 60 years, Luxman has been working on ways to improve upon the reproduction of sound. This steadfast dedication to a single goal has solidly linked the Luxman name to top quality in audio components of all types. Most important has been a policy of making use of all technological alternatives, both old and new, to deliver the utmost in sonic purity. With the appearance of digital audio in the eighties, this policy has taken on added importance as Luxman demonstrates its ability to optimise digital sound while continuing to build on a tradition of leadership in analogue audio.

The impressive lineup of components in this publication is eloquent testimony to the success of Luxman's basic thinking. In the Brid Series, the LV-109 integrated amplifier, LE-109 phono amplifier and D-109 compact disc player guarantee superb performance in digital and analogue. And the LV-105u integrated amplifier utilises a combination of vacuum tubes and MOS-FETs to amplify with precision, power and the unmistakable warmth that is a trademark of all Luxman products. In the "ultimate fidelity" series, some amplifiers feature purely "vacuum state" construction to offer discriminating listeners the option of the distinctive musicality of this technology.

This is Luxman. Components that faithfully reproduce all the subtleties in music, making the indefinable difference between a listening experience that is merely good, and one that is truly memorable.

Brid series

The best of digital. Together with the traditional attention to the unique warmth of analogue sources. That's what Luxman's incomparable Brid Series is all about.



Digital Brid

LV-109

Brid Series Stereo Integrated Amplifier

System Remote Control

Amplification with the Digital Connection

Digital audio makes special demands on audio components, and the LV-109 is engineered specifically to meet those demands. First is a built-in D/A converter. That means the digital code from compact discs or other digital sources remains in digital form all the way to the LV-109. A double oversampling function is included to attenuate signals above 25kHz. The sampling frequency is

automatically switched to one of three settings: 32kHz (BS tuner), 44kHz (CD player) or 48kHz (DAT recorder).

To preserve the wide dynamic range and demanding transients of digital sources, the LV-109 has a massive power supply and diodes having outstanding high-speed switching characteristics. To further enhance sonic purity, the power amplifier section has a hybrid FET/bi-polar transistor construction. Traditional Luxman devotion to analogue is evident in the absence of a phono amplifier.

Other Features

- Output power of 150W x 2 (8 ohms, 20Hz—20kHz)
- Dynamic power of 300W at 4 ohms
- Line Straight mode in which the input signal is passed directly to the power amp section
- Front panel LD/VHD audio and video inputs

Digital Brid

D-109

Brid Series Compact Disc Player

System Remote Control

The Best of Digital Audio from Luxman

The D-109 has a 16-bit D/A converter that includes a double oversampling digital filter. This eliminates the need for an analogue filter having a steep cut-off slope to remove the ultrasonic frequencies contained in the analogue signal immediately after D/A conversion. The benefit is markedly improved phase accuracy in the upper end of the audio range.

In addition, the D-109 has a digital output terminal to allow direct connection to the Luxman LV-109 integrated amplifier (with built-in D/A converter), an external D/A converter or other component with a converter. Since the output signal is digital all the way to the amplifier, the signal is not susceptible to the forces that lower sonic purity in conventional analogue intercomponent linkages.

A linear motor propels the pickup quickly, accurately and quietly. What users will appreciate most of all is undoubtedly the fast access to disc locations when using an automatic play mode. The entire pickup assembly is protected from external vibrations by a ceramic base.

Other Features

- Infrared wireless remote control unit
- 16-track memory play
- Four repeat modes: entire disc, individual track, interval, memory

LE-109

Brid Series Phono Amplifier

Engineered Solely for Phono Amplification

The LE-109 is convincing proof of Luxman's continuing dedication to extracting the very best from phonograph records, a source now being overlooked by many members of the audio industry as the emphasis on digital audio rises. Actually two phono amps in one, the LE-109 has one section (PHONO 1) for use exclusively with MC cartridges and a second section (PHONO 2) that is compatible with both

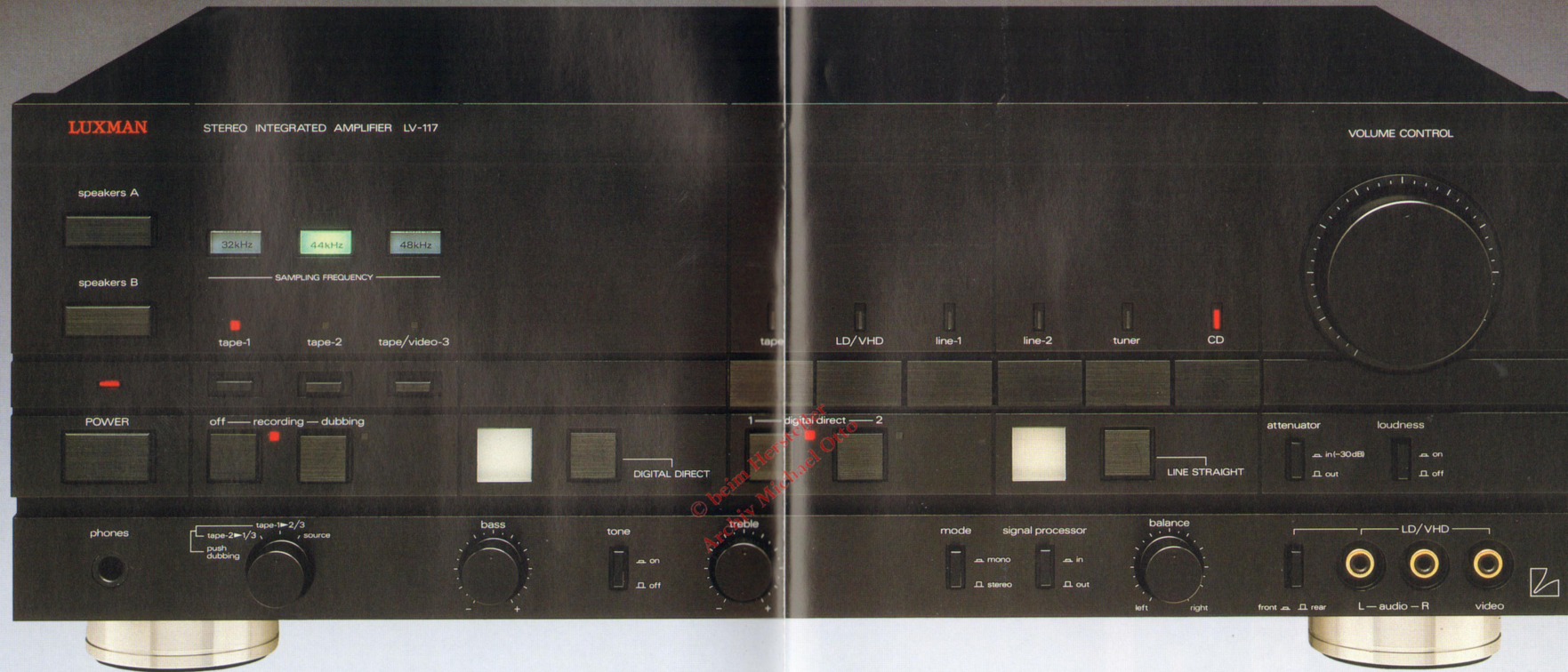
MM and MC cartridges. To handle the delicate input signals from MC cartridges with the tenderness they deserve, the LE-109 has an MC Straight mode that sends the audio signal directly to the phono equalisation section.

Two independent power supplies, one for each channel, eliminate worries about current ripple and other problems originating in the power supply. There are even separate power transformers for the left and right channels. This approach prevents cross-channel interference that can occur when a single power supply is used and is far superior to the usual ripple prevention technique of employing a powerful regulator circuit.

Other Features

- Low-noise high Gm FETs
- Compatible with all phono cartridges
- Balanced push-pull drive circuit for outstanding linearity

Luxman's commitment to delivering the full potential of the digital and analogue domains is evident in every aspect of this incomparable amplifier.



Digital Brid With Optical Link LV-117

Brid Series Stereo Integrated Amplifier

System Remote Control

The Ultimate Amp for Digital and Analogue Audio

Extracting the full potential of digital sources is no easy task. The LV-117 does it with a built-in D/A converter, optical as well as coaxial digital input terminals and a design that concentrates on nothing



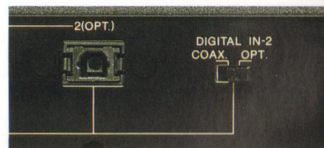
but high-level signals.

Built-in D/A Converter for "Digital Direct" Connection

Because the LV-117 has a D/A converter, the output of CD players and other digital sources need not be converted into analogue form for transmission to the amplifier. That way, the signal is com-



pletely shielded from the many factors that cause a drop in purity when signals are sent in analogue form from component to component. Input from the digital source can be effected using either a conventional coaxial connection or optical



fibre transmission. Optical fibre transmission is the purest possible link between CD player and amplifier, as it completely isolates the LV-117 from the digital source electrically, thereby solving the ground loop problem and greatly reducing electrical "noise". To allow purely digital dubbing using a DAT recorder, the LV-117 also has a coaxial digital output.

Highly Sophisticated D/A Conversion

The D/A converter includes a quadruple oversampling digital filter to eliminate ultrasonic frequencies, thereby allowing

the use of a super-phase-linear low-pass filter with excellent group delay characteristics. For unparalleled stability and sound quality, the converter itself is a ladder network type, one of the most advanced conversion technologies now available. The converter is automatically switched to one of three sampling frequencies: 32kHz, 44kHz or 48kHz.



A Design That Puts Fidelity Above All

Throughout the LV-117, Luxman has made use of components and configurations that preserve the integrity of the original signal to the utmost. For example,

each stage up to the output stage of the power amp section has its own fixed voltage circuitry. Furthermore, the power supply circuitry for each major section is completely independent from the secondary side of the power transformer onward. Amplification is performed using a voltage-controlled configuration that is purely FET as far as the output stage. The output stage employs low-distortion high-power transistors in a 3-stage Darlington connection for high input impedance and ample current gain. Additionally, there is no phono amp: the LV-117 is devoted exclusively to line-level inputs. Phono equalisation and amplification are handled by a separate component, the LE-109 phono amplifier.

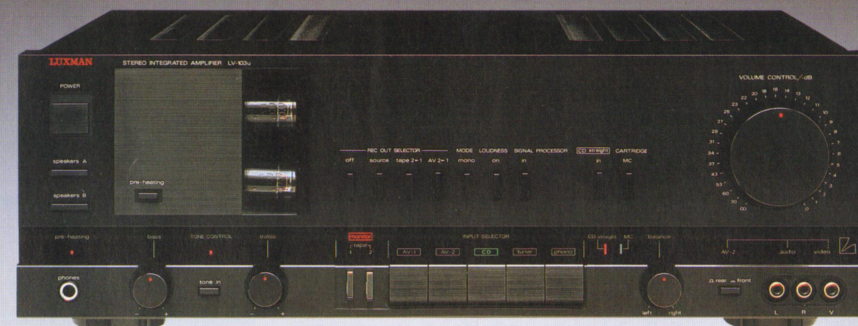
Ample Facilities for Video Sources

Three video components can be con-

nected to the LV-117 at once using (1) the rear panel TAPE 1 terminals, which include video-in and video-out, (2) the rear panel LD terminals, and (3) the front panel LD terminals. That makes it possible to perform a multitude of tasks, such as recording a video disc on your VCR via the LV-117. An output is also provided for a video monitor.

Other Features

- Output power of 110W x 2 (8 ohms, 20Hz—20kHz)
- Dynamic power of 460W at 2 ohms
- Switchable Line Straight mode in which the input signal is passed directly to the power amp section
- Six pairs of LINE inputs
- Accommodates two VCRs with bi-directional dubbing
- Video buffer amp with 6dB of gain
- Low impedance stability



LV-105u

Brid Series Stereo Integrated Amplifier

System Remote Control

The Very Best of Solid State and "Vacuum State"

Only Luxman could do it. A hybrid configuration with vacuum tubes and MOS-FETs as well as voltage-controlled amplification. Based on a concept that offers audiophiles an intriguing alternative to conventional amplification, the LV-105u is unmistakably Luxman in every respect.

Hybrid Amplification for the Ultimate in "Musicality" with Any Source

Amplification that delivers power while preserving the indefinable quality of "musicality" is the theme of the LV-105u. The power amp stage begins with FETs, and goes on to an output stage built around triode vacuum tubes that boast outstanding linearity, and a MOS-FET driver section. To eliminate current-related signal degradation, all stages employ voltage-controlled amplification circuitry.

Switchable CD Straight Mode

The CD Straight mode sends the signal received from a CD player directly to the power amp section, the most direct path

Artistry in Solid State and "Vacuum State" Engineering that Produces an Unparalleled Degree of Realism

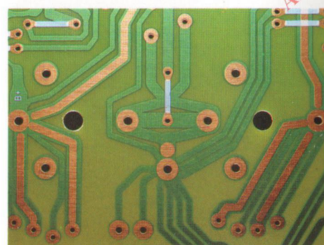
possible between the player and speakers. Fidelity is optimised because the various switches, tone control circuitry and other potential obstacles to sonic purity in the pre-amp section are bypassed.

Power Supply Circuitry Designed for Both Power and Stability

The power transformer of the LV-105u has a core that is about 50 percent thicker than that of ordinary transformers. The sonic benefits of this transformer are a feeling of stability with all types of music, sharper localisation of musical instruments on the stereo sound stage and richer low range reproduction.

The STAR Circuit—A Luxman Exclusive

To add an extra degree of clarity to this magnificent amplifier, each stage has its own power supply and earth line, a configuration Luxman calls the STAR (Signal Transit for Accurate Response) Circuit. Since no two stages have a common power or earth connection, there can be no mutual interference between the in-



dividual stages.

Other Features

- Output power of 80W x 2 (8 ohms, 20Hz—20kHz)
- Dynamic output power of 170W x 2 (4 ohms)
- Signal processor terminals and front panel switch
- Recording out selector
- Dubbing from VCR 2 to VCR 1
- Tube pre-heating switch

LV-105 Brid Series Stereo Integrated Amplifier



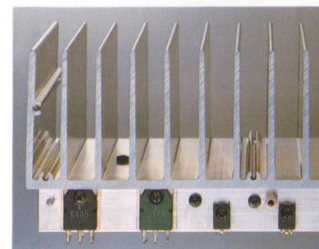
LV-103u

Brid Series Stereo Integrated Amplifier

System Remote Control

Vacuum Tubes and MOS-FET Voltage-Controlled Amplification

Amplification built around FETs, vacuum tubes and, in the final stage, MOS-FETs results in extremely clean power, along with the feeling of warmth that only tubes can offer. This concept dramatically demonstrates the Luxman belief that true high fidelity is built on a variety of techniques, not merely the latest high-tech fad.



Switchable CD Straight Mode

The CD Straight mode sends the signal received from a CD player directly to the power amp section, the most direct path

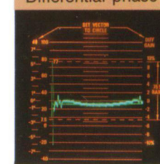
Precision with Warmth—The Sensation that Only the Luxman Union of Transistors and Tubes is Capable of Creating

possible between the player and speakers. Fidelity is optimised because the various switches, tone control circuitry and other potential obstacles to sonic purity in the pre-amp section are bypassed.

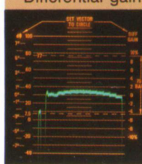
Accommodates both Audio and Video Components

With front/rear switchable video inputs, the LV-103u is equipped to become the control centre of an entertainment system consisting of audio and video sources. A high-performance video buffer amp guarantees the stable transmission of video signals up to 6MHz to a monitor or VCR. Differential gain (DG) and phase (DP) of the buffer amp exceed even the exacting standards set for broadcasting satellite tuners.

Differential phase



Differential gain



Signal Processor Terminals with Front Panel Switch

A graphic equaliser, sound processor or other external unit can be connected to the rear panel sound processor terminals. The unit is then switched into and out of the signal path by a front panel switch.

Other Features

- Output power of 60W x 2 (8 ohms, 20Hz—20kHz)
- Dynamic output power of 140W x 2 (4 ohms)
- CD Straight mode with front panel switch
- Two sets of VIDEO terminals
- Recording out selector
- Video dubbing from VCR 2 to VCR 1
- Tube pre-heating switch
- Loudness control
- Stereo/mono selector

LV-103 Brid Series Stereo Integrated Amplifier



Fully Equipped to Serve as the Centre of a Complete Audio and Video Entertainment System

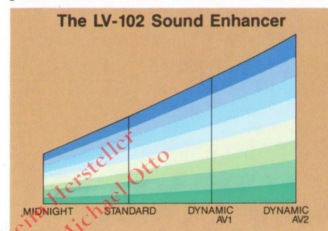
LV-102

Brid Series Stereo Integrated Amplifier

System Remote Control

The Luxman Sound Enhancer

The LV-102 features Luxman's sound enhancer, a system that makes listening to music and viewing TV programmes more pleasurable and convenient. For extra ver-



satility, the sound enhancer has three modes. The two dynamic AV modes, in which the dynamic range is expanded, make video programmes come alive, whether it's a movie or music video. The



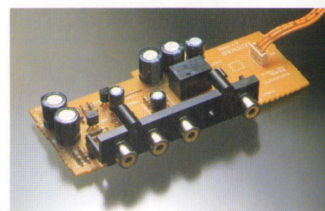
midnight mode, in which the dynamic range is compressed, is ideal for listening to music late at night when the volume must be turned down. The narrower dynamic range makes even delicate tones audible at low volume levels, assuring that you miss none of your favourite music even when listening late at night.

MOS-FET Output Stage

The LV-102's output stage is built around MOS-FETs, a type of transistor that can exceed its rated output by two times and still maintain low distortion and good sound quality. This high-performance output stage is an important reason why the LV-102 is able to meet the demands of the wide-dynamic-range audio sources available today.

Facilities for Video Components

With two sets of video inputs and a video buffer amp, the LV-102 makes possible video dubbing (from a video disc player to



a VCR, for example) with excellent picture and sound quality.

Other Features

- Output power of 70W x 2 (8 ohms, 20Hz—20kHz)
- Dynamic output power of 200W (4 ohms)
- Luxman's exclusive discrete-grounding STAR Circuit
- CD Straight mode with switch
- Duo-Beta Circuit



The Flexibility to Control a Variety of Audio and Video Sources with a Powerful 50W/Channel for Striking Realism

LV-101

Brid Series Integrated Amplifier

System Remote Control

The LV-101 combines advanced Luxman engineering for fidelity with an array of front and rear panel facilities that accommodate a complete assortment of audio and video components. Fidelity is optimised in many ways. One is Luxman's widely acclaimed STAR Circuit with its discrete grounding that eliminates earth-related causes of signal degradation. Another is the CD Straight mode, a



technique that provides the shortest route possible from a CD player or other digital component to the speakers, avoiding the pre-amp section and all its potential sources of noise and distortion. A front panel selector allows deactivating this mode when desired. On the rear panel are two sets of video inputs and signal processor terminals for anything from a graphic equaliser to an A/V surround system. A selector located beside these terminals makes it easy to switch the external

component into and out of the signal path. A recording out selector allows recording one source while listening to another. Another advantage of having this selector is the option of dubbing in either direction. The LV-101 also features a MOS-FET output stage to deliver extra-clean power, Luxman's exclusive Duo-Beta Circuit to provide the optimum amounts of negative feedback in the audible and inaudible frequency ranges, and an MM/MC cartridge selector.

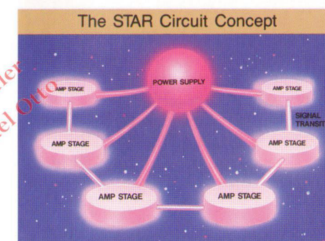
LV-100

Brid Series Stereo Integrated Amplifier

System Remote Control

Exclusive Luxman Technology

For true high fidelity performance, the LV-100 incorporates two unique, Luxman-developed techniques. First is the STAR Circuit that provides a direct earth line for each circuit block. This configuration eliminates the possibility of amplifier stages interfering with each



other via a common earth line. Second is Luxman's Duo-Beta circuitry that uses two gain circuits. One applies a small amount of feedback in the audio frequency band; the second gain circuit operates in the 0Hz to 5Hz range to improve woofer control. The benefits are tightly controlled bass reproduction and an extremely transparent mid and high range.

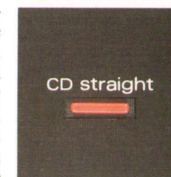
Traditional Luxman Excellence in a Format that Places Emphasis on Performance and Value



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CD Straight Mode

The LV-100 incorporates the CD Straight mode with a front panel selector. As its name implies, this mode routes the signal received from a CD player, or other digital source, through the LV-100 using the shortest route possible. A front panel indicator shows when the CD Straight mode is activated.



Delivers Lots of Power

Although this handsome component is aimed at value-minded music lovers, it nevertheless is capable of delivering the power needed to fill any listening room with rich sound. Furthermore, thanks to its high-performance circuitry, the LV-100 is even able to handle momentary impedance drops down to 2 ohms. Output power is 40W x 2 (8 ohms, 20Hz—20kHz). Dynamic output power is 105 watts at 4 ohms.

Other Features

- Subsonic filter switch
- Loudness switch
- Separate speaker A and B selector switches
- Operation indicator
- Headphones jack

STAR Circuit, CD Straight Mode and Many More Features for Superb Sonic Clarity

LV-90

Brid Series Integrated Amplifier

System Remote Control

The LV-90 is the obvious selection for audio lovers on a budget. It has adequate power for demanding transients, such as those encountered with CD players and other digital sources, and the ability to handle relatively low-impedance loads. Contributing to the LV-90's high fidelity, a prime engineering priority on all Luxman components, is the STAR Circuit. The STAR Circuit is the Luxman alter-



native to the frequent practice of using common earth lines for amplifier blocks. By giving each section its own earth line, the STAR Circuit does away with a number of causes of distortion and sonic impurities. For CD players and other digital sources, activate the CD Straight mode. Here, the input signal from the CD terminals goes to the speakers using the most direct route possible, missing the numerous obstacles to fidelity presented by the pre-amp section. The LV-90 also

has four input selectors, including one for AV/aux to accommodate video sources, two tape monitor selectors, a CD Straight on/off selector and indicator, and loudness switch. Output power is 30W x 2 (8 ohms, 20Hz—20kHz), while dynamic output power is 80 watts at 4 ohms.

Other Features

- Loudness switch
- Operation indicator
- Headphones jack



Digital Brid With Optical Digital Output

D-117

Brid Series Compact Disc Player

System Remote Control

Optical Fibre Connection Possible

When the D-117 is used with the Luxman LV-117 integrated amplifier, the player-to-amp connection can be made optically rather than electrically. This radical change in signal transmission method completely does away with electrical problems—notably the ground loop and electrical “noise”—that plague conventional inter-component connections.



Digital Output Capability

When using an amplifier with a built-in D/A convertor, like the LV-117 or LV-109, the output signal may be sent to the amplifier in digital form. This is possible using standard cables or an optical fibre cable (with the LV-117). Since the signal that reaches the amplifier's D/A convertor is in the unchanged digital form read from the disc, the countless analogue domain

The CD Format at its Best—Sophisticated Circuitry, a Wealth of Useful Functions and Optical Fibre Transmission

difficulties are no longer relevant. With the options of optical fibre transmission and digital output, the D-117 is able to supply an extremely high quality signal to the amplifier. Highly efficient signal output through the coaxial output is ensured by a new type of pulse transformer.

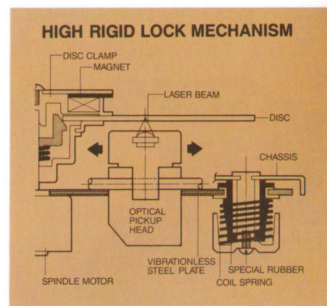
Quadruple Oversampling Digital Filter

The D-117's digital-to-analogue conversion section consists of a ladder network type D/A convertor, a technology representing the latest advances in this field. Additionally, the convertor section includes a quadruple oversampling digital filter and a super-phase-linear low-pass filter that, together, eliminate all worries of high-end phase shift.

“High Rigid Lock” Mechanism

Overall performance is further improved by the “High Rigid Lock” mechanism. This unique Luxman construction protects the pickup from external vibrations

by separating it from the base using a special type of rubber and coil springs. Two dense vibrationless steel plates provide added protection.



Features for Operational Convenience

To make operations as easy as possible, the D-117 includes a 29-key infrared remote control that encompasses all major disc play functions, 16-track random memory, a selection of four repeat modes, and a 4-way time display to make it easy to know precisely what section of a disc is being played.

Digital Brid With Digital Output

D-115

Brid Series Compact Disc Player

System Remote Control

16-bit D/A Convertor with Double Oversampling Digital Filter

To preserve the superb sound quality of the compact disc format, the D-115 incorporates a 16-bit D/A convertor section that includes a double oversampling digital filter. The digital filter eliminates the need for a low-pass filter having a sharp cutoff slope and the accompanying loss in high-end phase accuracy caused by such filters.

Other Features for Enhanced Fidelity

To isolate the pickup and other critical components from vibrations, the D-115 incorporates the unique Luxman “High Rigid Lock” mechanism. To do away with the problem of interferences transmitted via earth lines, the STAR Circuit is used

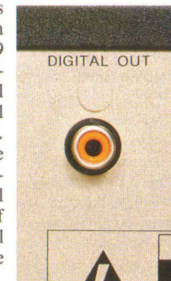
All the Flexibility of the CD Format with Advanced Luxman Technology for Dynamic Sound



so that each circuit block is linked to the reference point by its own earth line.

Digital Out Terminal

When D/A conversion is performed externally, such as by the Luxman LV-117 or LV-109 integrated amplifiers, the digital out terminal may be used. That way, the output signal remains in digital form, well out of harm's way, all the way to the amplifier.



A Wide Array of Functions

All the convenience of the CD format is yours thanks to a variety of automatic play modes and a wide, easy-to-read

8-digit fluorescent display with elapsed and remaining time display modes. Additionally, a 29-key infrared remote control unit allows you to use major functions from the comfort of your listening position. Among the useful disc play functions are 16-track memory play, four repeat modes (entire disc, individual track, interval, memory), track and index search and timer play.



Luxman Musical Magic in the Digital Domain with a Full Complement of User-Oriented Features

Digital Brid With Digital Output

D-113

Brid Series Compact Disc Player

System Remote Control

D/A Conversion with Double Oversampling

Digital-to-analogue conversion is performed by a 16-bit D/A convertor section that has a double oversampling digital filter to move the first band of ultrasonic “noise” farther from the end of the audible frequency band. This makes it possible to remove ultrasonic signal components using a super-linear-phase low-pass filter that preserves phase accuracy, a critical factor in maintaining a sharply defined stereo image.

“High Rigid Lock” Mechanism

The pickup is isolated from external

vibrations by this exclusive Luxman construction. Main components include a special type of vibration-deadening rubber, coil springs and dense metal plates. To further enhance tracking accuracy and stability, the pickup employs a 3-beam tracking servo system.

Features For Your Convenience

For the utmost in operational convenience, the D-113 includes a 16-track random memory play function, an 8-digit fluorescent display that includes track, index, time and memory display functions, and an 18-key infrared remote control unit.

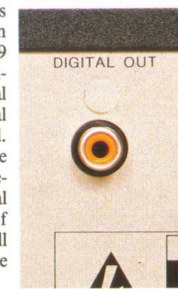
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When D/A conversion is performed ex-

ternally, such as by the Luxman LV-117 or LV-109 integrated amplifiers, the digital out terminal may be used. That way, the output signal remains in digital form, well out of harm's way, all the way to the amplifier.

STAR Circuit

This exclusive Luxman technique heightens fidelity by providing separate earth and power supply lines for each block.



Fully Programmable Operation with Direct Keypad Entry
Via an Infrared Remote Control Unit

D-102

Brid Series Compact Disc Player

System Remote Control

This sleek compact disc player includes sophisticated technology for both outstanding performance and ease of operation. Inside, the D-102 has a 16-bit D/A converter, 3-beam tracking servo system for the pickup, independent power supplies for the digital and analogue sections, and Luxman's exclusive STAR Cir-



cuit for enhanced signal purity. Better still, operating the D-102 is equally as pleasant as enjoying its superb sound quality. A direct access play/memory with 10-key input pad greatly simplifies and speeds up these frequently used functions. Random memory play is possible with a maximum of 16 tracks. The D-102 also has repeat (entire disc and memory contents) and search (2-speed) modes, and skip

up/down keys to make it easy to move the pickup to the beginning of a particular track. The digital display is an 8-digit type to show all important disc play information, including index numbers, in an easy-to-see format. Finally, an infrared remote control unit is included to allow operating all major disc play functions without having to get up.



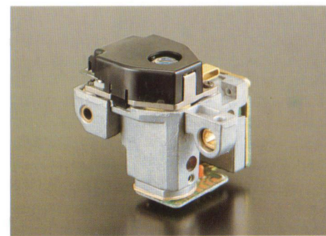
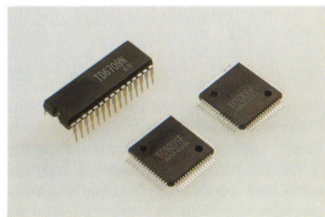
D-90

Brid Series Compact Disc Player

System Remote Control

16-Bit D/A Converter

This flexible compact disc player is an impressive demonstration of Luxman's ability to package advanced technology and valuable features in an economical format. One example is the sophisticated 16-bit D/A converter section that ensures superior precision and fidelity.



Excellent Basic Performance Plus the Added Value of
"The Luxman Touch" Inside and Out

3-Beam Tracking Servo

To follow the lines of microscopic pits on compact discs with maximum reliability, the pickup employed in the D-90 has a 3-beam tracking servo. That means the laser beam is able to track a disc accurately even when encountering relatively strong vibrations or a smudge—a fingerprint, for example—on the disc surface.

Numerous Operational Features

To make sure users enjoy the full potential of the compact disc format, the D-90 has a wide range of features. Random access memory play is possible with up to 16 tracks. Repeat play is possible over either an entire disc side or the memory contents. Skip keys make locating specific tracks a snap.

Other Features

- STAR Circuit
- Quality circuit components selected for optimum fidelity
- 14-key infrared remote control unit
- Easy-to-read 4-digit fluorescent display with elapsed and remaining time modes
- Displays track or index number
- Headphones jack with level control

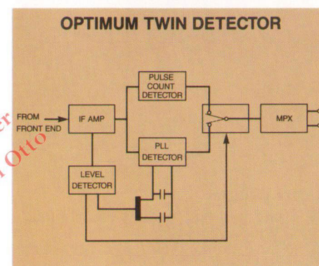
T-117(L)

Brid Series Stereo Synthesiser Tuner

System Remote Control

Optimum Twin Detector

This Luxman technique ensures the best reception quality possible with strong and weak broadcasts alike. For strong signals, a pulse-count detector having a high-S/N ratio is employed. When signal strength



An Outstanding Example of Luxman Expertise at Work
Optimising Tuning and Sonic Performance

falls below a certain level, a PLL detector automatically takes over to provide improved sensitivity, allowing the maintenance of stereo reception even with relatively weak broadcasts.

IF Count Tuning

With ordinary tuning systems, a minor shift in frequency can result in a slight, but annoying amount of mistuning. The IF Count Tuning method guarantees unprecedented precision, locking in FM broadcasts to within 10kHz and AM broadcasts to within 3kHz of the actual broadcast frequency.

IF Bandwidth Selection

In addition to the Optimum Twin Detector system, the T-117(L) also allows selection of the IF bandwidth to better match particular reception situations—WIDE

for optimum sound quality and NARROW when stations are close together.

Features for Your Convenience

Operational ease was also given priority in the design of the T-117(L). Examples of thoughtful features in this regard include 24-station preset tuning, a system remote control capability, and a timer programme function. When using an external timer, timer programming permits the selection of up to five preset stations for timer recording.



Unmatched Performance in Tuning Accuracy and Sound Quality
Along with 20-Station Preset and Auto-Seek Tuning

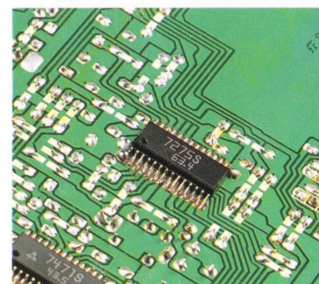


T-102(L)/T-100(L)

Brid Series Stereo Synthesiser Tuner

System Remote Control

The T-102(L) is highlighted by sophisticated techniques to ensure the best in tuning performance and versatility. One



technique is a simple type of Computer Analysed Tuning, which automatically switches high-blend on and off according to the quality of the incoming FM broadcast signal. FM detection is performed digitally to obtain audio signals virtually free of distortion. To further improve the S/N ratio, the intermediate frequency (IF) is boosted by a factor of three. In the MPX section, the T-102(L) has a PLL sample-and-hold circuit with a waveform shaping circuit in the PLL for extremely sharp stereo separation. A CS filter (anti-birdie) eliminates interference from nearby stations to maintain clear reception even in areas where FM stations are close together. For user convenience, the T-102(L) has 20-station preset tuning and memory scan tuning to quickly check pro-

grammes on all stations in the memory. With an external timer, a programme timer function may be used to recall up to five broadcasts using the preset tuning system.

Other Features

- Auto-seek tuning and Memory-scan
- System remote control capability
- Slim-line styling

T-100(L) Brid Series Stereo Synthesiser Tuner



F-105

Brid Series A/V Surround & Remote Control Centre

System Remote Control

Four Sound Processing Modes

The F-105 is two components in one—an A/V surround amplifier and a system remote control unit. To provide the ideal effect for any programme, there are four processing modes: Time Delay, Dolby, Matrix and Simulated Stereo. The Time Delay mode creates a more expansive sonic image and even lets you adjust the delay time in 5 msec. steps from 10 to 35 msec. Dolby creates a theatre-like effect using four or five speakers. The Matrix mode uses the L/R differential signal to create an effect surprisingly close to a live performance. And Simulated Stereo is ideal for improving the sound quality of monaural TV programmes. To allow instant comparison of sound with and without processing, a bypass mode is also provided.

A Single Unit that Adds Surround Sound Processing and Remote Control to Your A/V Entertainment System



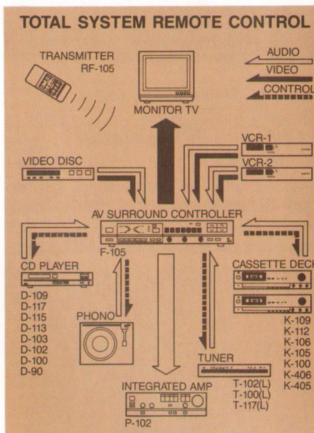
Amplifier and A/V Facilities

For extra dynamics, the F-105 has a 25W x 2 amplifier for the two rear channels. This versatile component also makes possible high-quality video dubbing because it has three AV/Video inputs, one monitor output and one dubbing output. A video buffer amp guarantees high-definition for recording and playback.



Centralised System Remote Control

For system remote control, the F-105 comes with a 28-key infrared remote control unit encompassing all major F-105 functions and those of a CD player, tuner, turntable, LD/VHD player, two cassette decks and two VCRs.



Other Features

- Master and rear volume control keys
- Graphic mode display
- Digital delay time display

S-105/S-102

Brid Series Speaker Systems



System Remote Control

Remote Control Centre

This unit provides all the system remote functions contained in the F-105.

The Right Choice for Demanding Surround Speaker Layouts and High-Quality Audio and Video Sources

The S-105 is a 3-way acoustic suspension speaker system that handles inputs of up to 100W. The network is in an air-tight space to protect it from air pressure variations within the enclosure. The large 32cm woofer has a carbon graphite diaphragm and an extremely powerful magnet. The midrange driver and tweeter feature bobbins with α -p titanium for superior transient response. The baffleboard edges are rounded by precisely the correct amount needed to optimise dispersion characteristics. The S-102 is a full-range bass reflex speaker system with front-mounted duct. The 10cm full-range speaker unit delivers flat response and a feeling of continuity that multi-driver speaker systems cannot provide. Wall mounting brackets are available as an



option. Both the S-105 and S-102 are magnetically shielded to allow placement near a television.

K-112

Brid Series Cassette Deck

System Remote Control

Dolby B and C NR and Dolby HX Pro

For maximum flexibility, the K-112 has both types of the popular Dolby NR systems. Dolby B NR assures compatibility with pre-recorded tapes while Dolby C NR produces professional-grade results when recording a live performance or a programme from a high-grade source. The K-112 is also equipped with Dolby HX Pro, a system that allows tape to contain a wider dynamic range in the high frequencies by adjusting recording bias when necessary.

Separate Recording and Playback Heads

With a 3-head configuration, this deck

K-100

Brid Series Cassette Deck

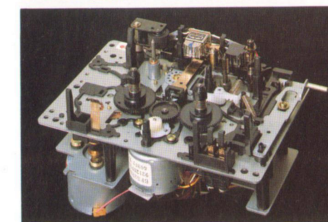
System Remote Control

The K-100 is fully equipped to handle a wide range of recording and playback requirements. The tape transport incorporates two DC motors, one for the capstan and a second for the take-up reel. The Hexalam rec/pb head has a 6-layer laminated permalloy housing to resist wear and provide a very high saturation



Superior Specifications and Operational Convenience to Offer the Best in Cassette Playback and Recording

allows monitoring the recorded signal while the recording is being made. This capability means users can confirm all settings during recording to guarantee optimum results every time. The rec and pb heads are made of wear-resistant Hexalam, which has a 6-layer laminated permalloy coating, and have windings made of OFC (oxygen-free copper) wire.



Individual DC Motors for Capstan and Take-up Reel

The capstan and take-up reel are driven by separate DC motors to maintain outstand-

ing tape travel stability and accuracy. Using DC motors has the added advantage of insulating the tape speed from minor fluctuations in the AC power supply frequency.

Full-Logic Feather-Touch Controls

To assure that tape transport mode switching goes smoothly, the K-112 has full-logic feather-touch controls. Simply tap a key to select the desired mode; furthermore, there's no need to press the STOP key when switching between two transport modes (from PLAY to FF, for example).

Other Features

- 4-digit tape counter
- Fine bias tuning for the best results possible with any tape
- Tape counter memory
- Remote control capability

Outstanding Basic Performance Plus Excellence in Versatility, Value and Attractive Styling



flux density. For recording, there are separate front panel L/R microphone jacks and independent recording input level controls for each stereo channel. And with Dolby B and C NR, the K-100 gives users a choice between the widely used Dolby B NR and the more powerful Dolby C NR, which is ideal for live recordings and other situations that demand the very best in sound quality. An 8-pin

DIN connector on the rear panel gives the K-100 compatibility with a total remote control unit. Tape transport keys are conveniently positioned and include an extra-large PLAY key and PLAY, PAUSE and REC indicators. Switching employs full-logic control to eliminate the need to press the STOP key each time a transport mode is changed.

K-109

Brid Series Cassette Deck

System Remote Control

The tape transport mechanism of this deck is a GT direct-drive type with three motors and a closed-loop dual-capstan for absolute stability. Tape transport mode switching is performed by a full-logic IC system. To optimise results when recording, the K-109 has a test tone oscillator, a bias control and separate L/R level controls. Monitoring recordings in progress is possible because there are separate Sendust recording and playback

Closed-Loop Dual-Capstan Transport, Test Tone Oscillator, and Much More to Deliver Professional-Grade Performance



heads. For playback, the K-109 offers such operational features as blank skip and music search. Other features include a real-time tape counter, timer record and play and a remote control capability.

K-106/K-105

Brid Series Auto-Reverse Cassette Decks

System Remote Control

These two auto-reverse decks feature Luxman's high-precision rotary head to ensure the same superior performance in both tape transport directions. Common features also include Intro Scan to automatically play the first few seconds of each selection on a tape, Blank Skip to rapidly pass over blank sections, Auto Space to enter blank sections between selections, a real-time tape counter, and

Luxman Engineering Expertise Gives You the Convenience of Auto-Reverse at Its Best



Dolby B and C NR. Additionally, the K-106 has Dolby HX Pro and dbx NR, programmable search for 9-selection random access, multi-function auto-reverse, including eight-time repeat playback, and bias fine control for optimum results with any type of tape. Both can be operated by a remote control system.

P-102/P-100

Brid Series Fully Automatic Turntables

System Remote Control

* Only with the P-102

The P-102 is a tangential tracking turntable with an FG servo DC motor. A dual-layer insulation system isolates the platter and tonearm from external vibrations. The P-102 also has automatic speed selection, variable pitch control, automatic repeat mode, and remote control capability. The P-100 is a fully automatic turntable with a DC servo motor. Features include variable pitch control and automatic repeat mode.

Two Attractively Styled Turntables that are Perfect for Any Multi-Source Brid Audio System



G-100

Brid Series Graphic Equaliser

A graphic equaliser must offer not only the functions required to deliver a specific effect, but also be able to provide that effect without adversely affecting the integrity of the audio signal. The G-100 fills these demanding conditions with a wide range of functions and circuitry that puts fidelity above all else. Ten level controls for each channel provide 12dB of boost or attenuation. A three-position sound enhancer controls the dynamic range of a

The Freedom to Tailor Your Music to Particular Listening Environments and Personal Preferences with Ease and Accuracy



programme. The midnight mode reduces the dynamic range to make even quiet passages audible when listening at a low volume level. The A/V mode is used to expand the dynamic range when listening to a TV programme.

Accessories

Remote Control Units

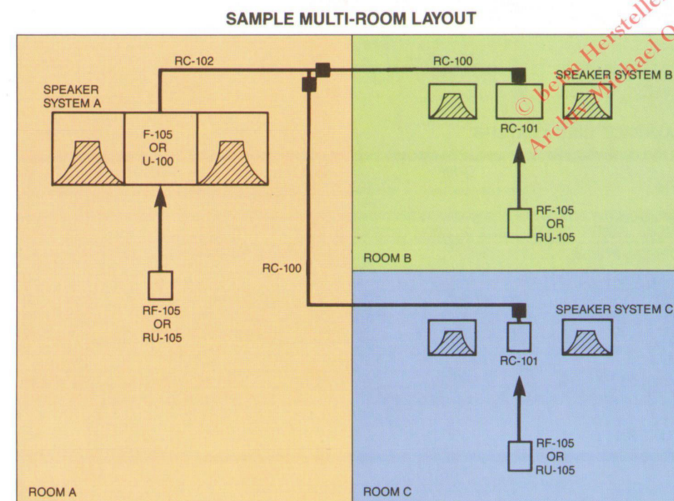
These remote control units and cables may be used to create a multi-room audio system as well as provide remote control for selected Luxman components.

- RU-100 Remote control unit for the U-100
- RF-105 Remote control unit for the F-105
- AK-10 Wired type for a cassette deck
- AK-20 Wireless type for a cassette deck
- RC-101 External remote control sensor
- RC-100 30m extension cable for the RC-101
- RC-102 Splitter for remote control signals
- RC-105 DIN remote control cable set for the F-105 (4 pcs.)



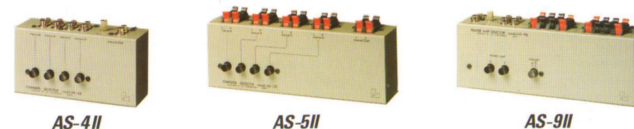
Multi-Room Remote Control

The F-105 is able to extend remote control throughout the home in addition to providing total system remote control. Simply add the remote control sensors (RC-101), extension cables (RC-100), and splitter (RC-102).



Channel Selector Units for Multi-Audio Systems

These units employ custom-made switches to ensure reliable and smooth source selection. Circuitry is engineered to prevent annoying noises when switching between sources.



- AS-4II 4-channel input selector
- AS-5II 4-channel output selector
- AS-9II Power output selector for two power amps and two speaker systems

SPECIFICATIONS

INTEGRATED AMPLIFIERS

	LV-109	LV-117	LV-105u	LV-103u	LV-102
Output Power (80)	150W x 2 (20Hz—20kHz)	110W x 2 (20Hz—20kHz)	80W x 2 (20Hz—20kHz)	60W x 2 (20Hz—20kHz)	70W x 2 (20Hz—20kHz)
Dynamic Power Output	300W (40)	325W (40) 460W (20)	170W (40)	140W (40)	200W (40)
Total Harmonic Distortion	0.005% (1kHz)	0.005% (1kHz)	0.008% (1kHz)	0.008% (1kHz)	0.005% (1kHz)
Input Sensitivity & Input Impedance	— LINE (CD, tuner, tape, AV-Audio): 150mV/50kΩ AV-Video: 1Vp-p/75Ω	— LINE (CD, tuner, tape, AV-Audio): 150mV/47kΩ AV-Video: 1Vp-p/75Ω	Phono MM: 2.0mV/47kΩ Phono MC: 150μV/100Ω LINE (CD, tuner, tape, AV-Audio): 150mV/47kΩ AV-Video: 1Vp-p/75Ω	Phono MM: 2.0mV/47kΩ Phono MC: 150μV/100Ω LINE (CD, tuner, tape, AV-Audio): 150mV/47kΩ AV-Video: 1Vp-p/75Ω	Phono MM: 2.5mV/50kΩ Phono MC: 220μV/100Ω LINE (CD, tuner, tape, AV-Audio): 160mV/50kΩ AV-Video: 1Vp-p/75Ω
Signal-to-Noise Ratio (IHF-A weighted)	— LINE (CD, tuner, tape, AV-Audio): 110dB	— LINE (CD, tuner, tape, AV-Audio): 100dB	Phono MM: 90dB Phono MC: 70dB LINE (CD, tuner, tape, AV-Audio): 110dB	Phono MM: 90dB Phono MC: 70dB LINE (CD, tuner, tape, AV-Audio): 110dB	Phono MM: 90dB Phono MC: 66dB LINE (CD, tuner, tape, AV-Audio): 105dB
Frequency Response	— LINE (CD, tuner, tape, AV-Audio): 1Hz to 150kHz (—3dB)	— LINE (CD, tuner, tape, AV-Audio): 1Hz to 150kHz (—3dB)	Phono MM: 20Hz to 20kHz (±0.3dB) Phono MC: 20Hz to 20kHz LINE (CD, tuner, tape, AV-Audio): 1Hz to 150kHz (—3dB)	Phono MM: 20Hz to 20kHz (±0.3dB) Phono MC: 20Hz to 20kHz LINE (CD, tuner, tape, AV-Audio): 1Hz to 150kHz (—3dB)	Phono MM: 20Hz to 20kHz (±0.3dB) Phono MC: 20Hz to 20kHz LINE (CD, tuner, tape, AV-Audio): 1Hz to 120kHz (—3dB)
Dimensions (W x H x D)	438 x 165 x 460mm	438 x 166 x 422mm	438 x 148 x 353mm	438 x 148 x 353mm	438 x 138 x 352mm
Weight	20.4kg	15.7kg	11.5kg	10.2kg	9.0kg

	LV-101	LV-100	LV-90
Output Power (80)	50W x 2 (20Hz—20kHz)	40W x 2 (20Hz—20kHz)	30W x 2 (20Hz—20kHz)
Dynamic Power Output	120W (40)	105W (40)	80W (40)
Total Harmonic Distortion	0.005% (1kHz)	0.008% (1kHz)	0.008% (1kHz)
Input Sensitivity & Input Impedance	Phono MM: 2.5mV/50kΩ Phono MC: 220μV/100Ω LINE (CD, tuner, tape, AV-Audio): 160mV/50kΩ AV-Video: 1Vp-p/75Ω	Phono MM: 2.5mV/50kΩ LINE (CD, tuner, tape): 160mV/50kΩ	Phono MM: 2.5mV/50kΩ LINE (CD, tuner, tape): 160mV/50kΩ
Signal-to-Noise Ratio (IHF-A weighted)	Phono MM: 88dB LINE (CD, tuner, tape, AV-Audio): 105dB	Phono MM: 88dB LINE (CD, tuner, tape): 96dB	Phono MM: 88dB LINE (CD, tuner, tape): 96dB
Frequency Response	— LINE (CD, tuner, tape, AV-Audio): 1Hz to 120kHz (—3dB)	— LINE (CD, tuner, tape, AV-Audio): 10Hz to 80kHz (+1, —3dB)	— LINE (CD, tuner, tape, AV-Audio): 10Hz to 80kHz (+1, —3dB)
Dimensions (W x H x D)	438 x 138 x 352mm	438 x 110 x 278mm	438 x 110 x 278mm
Weight	8.5kg	7.2kg	6.7kg

COMPACT DISC PLAYERS

	D-109	D-117	D-115	D-113	D-102	D-90
Pickup	Semi-conductor laser pickup	Semi-conductor laser pickup	Semi-conductor laser pickup	Semi-conductor laser pickup	Semi-conductor laser pickup	Semi-conductor laser pickup
D/A Conversion	16-bit linear	16-bit linear	16-bit linear	16-bit linear	16-bit linear	16-bit linear
Channel	2-channel, stereo	2-channel, stereo	2-channel, stereo	2-channel, stereo	2-channel, stereo	2-channel, stereo
Frequency Response	5Hz—20kHz (+0.3dB, —0.7dB)	5Hz—20kHz (+0.3dB, —0.7dB)	5Hz—20kHz (+0.3dB, —0.7dB)	5Hz—20kHz (+0.3dB, —0.7dB)	5Hz—20kHz (+0.5dB, —1.0dB)	5Hz—20kHz (+0.8dB, —1.0dB)
Dynamic Range	More than 95dB	More than 95dB	More than 93dB	More than 93dB	More than 90dB	More than 90dB
Signal-to-Noise Ratio	More than 96dB	More than 98dB	More than 97dB	More than 97dB	More than 91dB	More than 91dB
Total Harmonic Distortion	0.003% (1kHz)	0.004% (1kHz)	0.004% (1kHz)	0.005% (1kHz)	0.004% (1kHz)	0.006% (1kHz)
Wow & Flutter	Below measurable level	Below measurable level	Below measurable level	Below measurable level	Below measurable level	Below measurable level
Output	2.0V	2.0V	2.0V	2.0V	2.0V	2.0V
Digital Output	0.5Vp-p/75Ω	0.5Vp-p/75Ω	0.5Vp-p/75Ω	0.5Vp-p/75Ω	—	—
Dimensions (W x H x D)	438 x 102 x 387mm	438 x 85 x 314mm	438 x 85 x 314mm	438 x 85 x 314mm	438 x 85 x 313mm	438 x 85 x 313mm
Weight	11.0kg	5.2kg	5.0kg	4.3kg	4.9kg	4.4kg

TUNERS

	T-117 (L)	T-102 (L)	T-100 (L)
Tuning System	Frequency synthesised	Frequency synthesised	Frequency synthesised
<FM Section>			
Usable Sensitivity	0.75μV (75Ω) (8.8dB)	0.95μV (75Ω) (10.8dB)	0.95μV (75Ω) (10.8dB)
Signal-to-Noise Ratio at 65dB	Mono 88dB Stereo 78dB	Mono 85dB Stereo 75dB	Mono 75dB Stereo 70dB
Frequency Response	20Hz—15kHz (±0.5dB)	30Hz—15kHz (±0.5dB)	30Hz—15kHz (±0.5dB)
Distortion at 65dB	Mono 0.04% Stereo 0.05%	Mono 0.05% Stereo 0.06%	Mono 0.1% Stereo 0.15%
Spurious Response Ratio	110dB	110dB	100dB
Stereo Separation (1kHz)	58dB	55dB	50dB
<MW Section>			
Usable Sensitivity	58dB/m	58dB/m	58dB/m
Signal-to-Noise Ratio	50dB	50dB	50dB
Output Level	210mV	200mV	200mV
<LW Section>			
Usable Sensitivity	Only with T117 L	Only with T102 L	Only with T100 L
Signal-to-Noise Ratio	68dB/m	68dB/m	68dB/m
Output Level	210mV	200mV	200mV
<General>			
Dimensions (W x H x D)	438 x 63 x 310mm	438 x 58 x 249mm	438 x 58 x 220mm
Weight	4.5kg	3.0kg	2.9kg

CASSETTE DECKS

	K-109	K-112	K-106	K-105	K-100
Driving System	3-Motor dual capstan	2-Motor single capstan	3-Motor dual capstan	3-Motor dual capstan	2-Motor single capstan
Heads	3 head system	3 head system	2 head rotary system	2 head rotary system	2 head system
Record	Sendust	Hexalam	Hexalam (REC/PB)	Hexalam (REC/PB)	Hexalam (REC/PB)
Playback	Ferrite	Hexalam	—	—	—
Erase	Sendust/Ferrite	Ferrite	—	—	Double-gap-Ferrite
Wow & Flutter	0.022%	0.05%	0.05%	0.05%	0.05%
Frequency Response	Metal: 20Hz—23kHz CrO ₂ : 20Hz—21kHz LH: 20Hz—21kHz	Metal: 20kHz—22kHz CrO ₂ : 20Hz—21kHz LH: 20Hz—20kHz	Metal: 20Hz—19kHz CrO ₂ : 20Hz—19kHz LH: 20Hz—17kHz	Metal: 20Hz—19kHz CrO ₂ : 20Hz—19kHz LH: 20Hz—17kHz	Metal: 20Hz—19kHz CrO ₂ : 20Hz—18kHz LH: 20Hz—16kHz
Distortion	0.6%	0.7%	0.7%	0.7%	1.0%
Signal-to-Noise Ratio	Metal: 73dB Dolby-C on: 67dB Dolby-B on: 60dB Dolby off: — dbx on: —	CrO ₂ : 72dB 72dB 65dB 57dB —	CrO ₂ : 72dB 72dB 67dB 64dB —	Metal: 71dB 71dB 67dB 60dB 90dB	CrO ₂ : 70dB 70dB 63dB 55dB —
Input	75mV/50kΩ	90mV/47kΩ	130mV/25kΩ	130mV/25kΩ	100mV/50kΩ
Output	500mV/10kΩ	500mV/2kΩ	500mV/1kΩ	500mV/1kΩ	500mV/2.4kΩ
Dimensions (W x H x D)	438 x 124 x 346mm	438 x 110 x 319mm	438 x 114 x 307mm	438 x 114 x 307mm	438 x 110 x 267mm
Weight	9.3kg	4.3kg	4.5kg	4.5kg	4.5kg

A/V SYSTEM CONTROL CENTRES

	F-105
<Audio>	
Input Sensitivity & Input Impedance	150mV/50kΩ
Output Level & Output Impedance	150mV/1kΩ
Signal-to-Noise Ratio	90dB
Frequency Response	20Hz—100kHz (—3dB)
Total Harmonic Distortion (20Hz—20kHz)	0.03% (150mV Input)
<Surround Rear Channel>	
Output Power (80)	25W+25W
Dynamic Power (80, 40)	35W, 48W
Surround Modes	Time Delay, Dolby, Matrix Surround
Centre Channel Output	120mV/1.5kΩ
Total Harmonic Distortion (20Hz—20kHz)	0.05%
<Video>	
Input Sensitivity & Input Impedance	1.0V P-P/75Ω
Output Level & Output Impedance	1.0V P-P/75Ω
Frequency Response	6Hz—10MHz (—3dB)
<General>	
Dimensions (W x H x D)	438 x 88 x 300mm
Weight	6.0kg

GRAPHIC EQUALISER

	G-100
Bands	10 bands per channel
Equaliser Range	±12dB
Output Voltage	150mV/600Ω max. 9V
Frequency Response	10Hz—50kHz (+0.5dB)
Total Harmonic Distortion	0.003% (1kHz at 1V)
Signal-to-Noise Ratio (IHF-A weighted, input shorted)	110dB
Dimensions (W x H x D)	438 x 98 x 238mm
Weight	3.4kg

SPEAKER SYSTEMS

	S-105	S-102
System	32cm 3-way/3drivers	10cm 1-way/1driver
Power Handling [PEAK]	100W	150W
Nominal Impedance	6Ω	6Ω
Frequency Response	30Hz—30kHz (±3.0dB)	50Hz—20kHz (±3.0dB)
Sensitivity	92dB/W/m	90dB/W/m
Enclosure Type	Airtight Type	Bass-Reflex Type
Dimensions (W x H x D)	380 x 690 x 320mm	230 x 150 x 150mm
Weight	23.0kg	2.9kg

Design and specifications are subject to change without notice.

* "Dolby" and "HX pro" are trademarks of Dolby Laboratories Licensing Corporation.

* "dbx" is a registered trademark of dbx Inc.

TURNTABLES

	P-102	P-100
<Phono Motor Section>		
Driving System	Belt-Drive System	Belt-Drive System
Motor	FG servo DC motor	DC servo motor
Signal-to-Noise Ratio [DIN-B]	72dB	70dB
Wow & Flutter [W.R.M.S.]	No more than 0.04%	No more than 0.06%
<Tonearm Section>		
Tonearm	Tangential-Tracking Type	Static-Balanced, Straight Type
Cartridge Weight Range	4g—95g	4g—95g
<General>		
Dimensions (W x H x D)	416 x 104 x 348mm	416 x 119 x 376mm
Weight	4.9kg	5.3kg

Exquisite LUXMAN

Luxman components bearing the distinctive champagne gold finish are what we call "ultimate fidelity"—
Sound with a warmth that is unmistakably Luxman



CL-360

Ultimate Fidelity Vacuum State Preamplifier

Built around tubes to provide the musical warmth that has made Luxman famous, the CL-360 utilises many techniques to preserve all the information contained in the discs, tapes and other sources of the music you like to hear.

SRPP Circuit Configuration to Take Full Advantage of the Tube-Based Design

Selection of the best components for each amplifier section is critical to the realisation of ultimate fidelity. In the CL-360, the equalizer section, intermediate amp and final (tone control) stage employ the same type of vacuum tubes. In this configura-

tion, the equaliser and intermediate amp are basically the same circuit. The result is a simple configuration that is essentially a SRPP (shunt-regulated push-pull) circuit. Furthermore, the time constant of the SRPP circuit, which has a significant effect on sound quality, was selected with extreme care to raise linearity and minimise distortion.

Independent Power Supply Circuitry

To prevent interference from spreading to all amplification stages via the power supply circuitry, the CL-360 has completely independent power supply wiring for the equaliser, tone and tube heater circuits. The result is an ideal block configuration in which there is one power supply circuit for each amplification block. What this means is that

subtle sonic nuances that are normally lost between each amplification step are accurately amplified and sent on to the speaker systems.

STAR Circuit and Advanced NFB Techniques

The inherent benefits of the CL-360's vacuum tube construction are further enhanced by the Luxman STAR (Signal Transit for Accurate Response) Circuit that eliminates common power and earth lines by providing a direct link to each amplifier block. Additionally, the CL-360 applies precisely the correct amount of NFB using an exclusive Luxman circuit design.

Other Features

- 2-1/1-2 dubbing selector
- Reverse-stereo-mono mode selector
- Subsonic-low cut filter selector



MQ-360

Ultimate Fidelity Vacuum State Power Amplifier

The exquisite MQ-360 is a power amp like no other, preserving the delicate tones that give music a feeling of warmth, while delivering the ultra-clean power required to fill your room with expansive, life-like sound. Output power is 40W x 2 (8 ohms, 20Hz—20kHz).

A Power Amp that Makes Music Sound Like Music

Only Luxman could create a component like the MQ-360. With tubes to give sound the sensation of transparency and naturalness that no transistor can match. Featuring twin triode tubes in the first stage and, in the driver stage, two 6550A

tubes with low impedance to generate high driving voltages. Both the first and driver stages employ push-pull operation to accurately amplify quiet as well as loud passages.

Newly Developed Output Transformers

The OY15-24K output transformer is designed specifically to complement the push-pull configuration of the MQ-360 and bring amplification as close as possible to the goal of perfect linearity. In fact, frequency response is virtually flat all the way up to 100kHz.

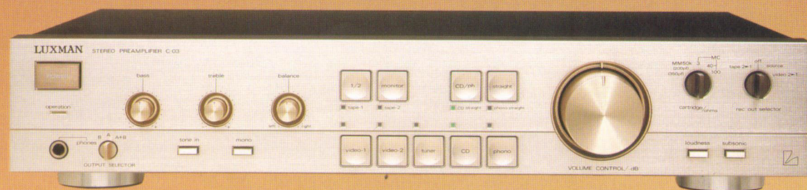
Self-Applied Bias Voltage

Most tube amplifiers apply a fixed amount of negative voltage (bias) to the control grids of the power tubes to set the operating point. The MQ-360, however, utilises the cathode voltage (resistance)

and applies no voltage to the control grids. This so-called "self-applied" bias makes it appear as if a bias voltage were being applied even though none, in fact, is. The result is a wider range of class A operation and a degree of sonic purity impossible with fixed bias designs.

STAR Circuit to Eliminate Common Earth and Power Supply Lines

In general, a point believed to have zero potential is used as earth in amplifiers. However, this system is not satisfactory because voltage varies as the amplifier is operating. The result is a degradation in fidelity as this variation reaches the signal via the earth lines. In the MQ-360, each block is connected directly to the reference point to solve this problem and obtain the full potential of the MQ-360's class A operation.



C-03

Ultimate Fidelity Preamplifier

I Genuine Class A Operation

The output section of the C-03 is purely class A to eliminate crossover distortion. Furthermore, this section is built so as to minimise impedance. This powerful output section makes the C-03 capable of being linked directly to speaker systems having built-in amps even using extremely long cables.

I CD and Phono Straight Modes

To enhance the already superb sonic characteristics of this unit, it is equipped with both Luxman's CD Straight and Phono Straight modes. The CD Straight

Offering the Unmatched Sonic Purity and Operational Flexibility that Only a Separate Preamplifier Can

results in the shortest route possible from source to speakers. The Phono Straight mode has the same effect when listening to a phonograph record.

I Numerous Front Panel Controls

On the front panel are a diverse range of neatly arranged controls. A 5-position cartridge selector ensures compatibility with almost any cartridge type. The rec out selector has tape and video dubbing positions. A tone in on/off switch allows easy activation and deactivation of the tone control section.

Other Features

- Separate regulated power supplies for phono amp, tone amp and video amp
- Main volume circuitry placed after tone control amp to reduce effect of the tone amp on volume level
- STAR Circuit
- Quality circuit components selected for optimum fidelity
- Gold-plated output terminals

Pure Class A Operation, Duo-Beta Circuit, and a Complete Assortment of Controls



C-02

Ultimate Fidelity Preamplifier

This magnificent preamplifier employs true class A amplification to eliminate crossover distortion, a cause of various distortions and colourations in conventional amplifiers. For outstanding sonic purity with MC cartridges, the C-02's exclusive MC transformer has oxygen-free

copper (OFC) wire windings and a relatively low step-up ratio. Luxman's exclusive Duo-Beta Circuit is employed to apply precisely the proper amount of negative feedback, resulting in a tightly controlled bass and extremely clear mid and high range. Other features include

two tape monitor circuits for dubbing, warm-up and operation indicators, gold-plated terminals to reduce contact resistance, a 4-position cartridge selector, and separate turnover frequency selectors for the bass and treble controls.



M-03

Ultimate Fidelity Power Amplifier

I High Power Output

Power output of this incomparable power amp is $200W \times 2$ (8 ohms, 20Hz—20kHz). To safely drive very low impedance loads and improve transient response, the M-03's output stage has six bipolar transistors in a triple parallel configuration. The FET voltage amplification stage has a differential circuit incorporating a dual-type J-FET on a single chip, a cascode bootstrap current mirror load circuit, and current mirror regulated current circuit. In the pre-driver stage, the M-03 has a high-Gm MOS-FET in a cascode regulated voltage load configura-

200 Watts of Output Power Combined With Expertise in the Countless Details that Determine Fidelity

tion. The result is high gain with unmatched sonic purity.

I STAR Circuit

Purity is heightened by the use of Luxman's STAR Circuit. This technique supplies each amplifier block with its own earth line to better isolate the different blocks from each other.

I Huge Power Supply and Large Heat Sinks

The power supply for the output (current amplification) stage is built around two 15,000 μ F block capacitors for each chan-

nel. Performance is further enhanced by the incorporation of a low impedance construction throughout. To effectively dissipate the large quantities of heat generated by this amplifier, there are two enormous aluminium heat sinks, each weighing approximately 1.5 kilograms.

Other Features

- Extra-large speaker terminals
- Operation and BTL connection indicators
- Digital peak power level indicators
- Separate L/R attenuators
- Gold-plated input terminals
- Carefully selected quality parts

Massive Output Power Backed Up by Circuitry that Minimises Distortion and Colouration



M-02

Ultimate Fidelity Power Amplifier

To deliver up to 150 watts with the purity required to preserve the integrity of even digital sources, the M-02 employs a DC push-pull configuration supported by a power supply section that has a newly developed 450VA circular-type transformer and 15,000 μ F smoothing capacitors. In addition, the coils are wound

symmetrically on "orient" type cores to generate a high saturation flux density. This eliminates magnetic leakage and makes it easier to meet the requirements of transient peaks. A BTL selector is provided to permit using the M-02 as a 320 watt (at 8 ohms) monaural amplifier. To protect your speakers, there

are multiple protection circuits including electronic heat sensors and an exclusive Luxman circuit that safeguards the amp against excessive currents. Other features include large, easy-to-read power meters with logarithmic scales, gold-plated terminals, and left and right channel attenuator controls.

*Duo-Beta Circuit, Single-Stage Amplification and
Much More Luxman Technical Artistry Throughout*

C-05

Ultimate Fidelity Preamplifier



Traditional Luxman attention to the details that make the difference between mere excellence and perfection set the C-05 apart from other preamplifiers. To eliminate any possibility of cross-channel interference, the C-05 consists of two completely independent monaural amplifiers. The famous Luxman Duo-Beta Circuit provides the optimum amount of NFB while avoiding the common trap of placing too much reliance on NFB for stability. The single-stage configuration has the obvious benefit of reducing

colouration, distortion and other problems because the signal passes through fewer stages than in ordinary pre-amp designs. Luxman accomplished this by solving one by one the numerous problems posed by the single-stage construction. The result is the revolutionary circuitry of the C-05, in which amplification is performed using only earth as the reference point. The absence of a series of amplification stages also noticeably improves high-range fidelity because there is no stage-to-stage stagger treble compensa-

tion. For operational flexibility, the C-05 has a full complement of front panel controls including a 5-position cartridge selector. Finally, to eliminate problems caused by magnetism in the cabinet or chassis, the cabinet has a dual-layer structure incorporating a copper plate, and the chassis is made of aluminium.

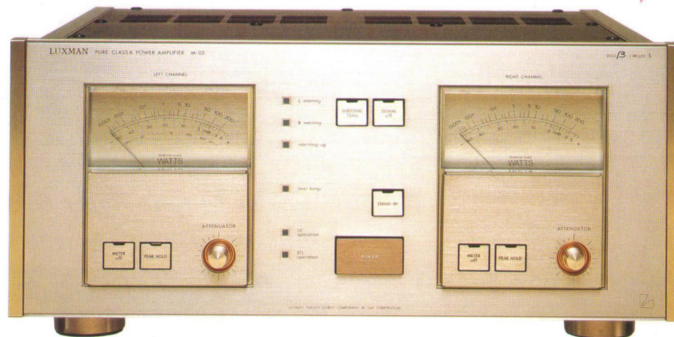
Other Features

- 5-position input selector
- Operation and warm-up indicators
- Bi-directional dubbing

Pure Class A Operation to Capture the Essence of Music

M-05

Ultimate Fidelity Power Amplifier



The M-05 is two power amplifiers on a single chassis. Its completely independent left and right channel monaural amps do away with the possibility of one channel interfering with the other. Even the power supplies are separate. That way, a sudden requirement for power in one channel will not disrupt the tranquility of the other channel. Output power is a mammoth $105W \times 2$ (8 ohms, 20Hz—20kHz) under pure class A operation and 440W when used for a single stereo channel by means of BTL connection. Operation is pure class A for unsurpassed fidelity that

discriminating audiophiles will appreciate. The circuitry of the M-05 is a masterpiece from start to finish. The first stage is a dual-FET cascode bootstrap differential amplifier. The driver and output stages are a SEPP (single-ended push-pull) circuit with 3-stage Darlington connection. For outstanding linearity, the final output is generated by high-speed power transistors in a triple push-pull configuration. Other features include large power meters with a peak-hold function, large output terminals and a noiseless fan to efficiently dissipate heat. Attenuator controls for the

left and right channels permit the M-05 to be connected directly to high-level audio sources when desired to completely bypass the pre-amp, the shortest route possible from source to speakers.

Other Features

- Indicators for all major operation conditions
- Meter on/off switches
- Peak hold on/off switches
- Subsonic filter switch

L-560

Ultimate Fidelity Integrated Amplifier



Unlike the countless "quasi-class A" integrated amplifiers available today, the L-560 offers true class A operation with absolutely no compromises. That means no switching distortion for no loss of wave continuity at the zero crossover point, an unavoidable problem with even the best class A imitations. To realise the full potential of the L-560's class A operation, its two gigantic power supplies incorporate toroidal transformers and "pure-

focus" capacitors. Furthermore, critical chassis sections are copper-plated to prevent the occurrence of electromagnetic distortions and the styrol capacitors are wrapped in rubber to prevent mechanical resonances. The L-560 also employs the Luxman single-stage amplification construction. To allow detailed adjustment of frequency response, the bass and treble controls can be set individually to one of nine turnover frequencies. And Luxman's

NFB tone control technique assures a smooth boost or attenuation with no worries of a loss in fidelity. An impressive selection of front panel facilities, including tape-in and tape-out terminals, subsonic and high-cut filter switches, 6-position cartridge selector, and a warm-up indicator, rounds out the L-560's stunning array of capabilities. Output power is $50W \times 2$ under pure class A operation (8 ohms, 20Hz—20kHz).

*Sophisticated Circuitry, Operational Flexibility and
230W of Dynamic Power at 4 Ohms*

L-525

Ultimate Fidelity Integrated Amplifier



Driving the complex loads presented by a loudspeaker is a difficult task. The L-525 meets these demands with a heavy duty power supply and other advanced circuitry. Critical power supply block components were selected with special care. For example, the transformers have EI-shaped cores and extra large chemical capacitors are employed. As a result, the L-525 can safely handle impedances down to 2 ohms. To deliver Luxman ultimate fidelity, class A operation is maintained at all times except when an extremely high current is required. The L-525 also features

the Luxman single-stage construction in which the signal goes directly from the first stage to the output stage. Luxman's exclusive STAR Circuit, with its discrete placement of earth lines to each circuit, eliminates mutual interference between amplifier sections. The bass and treble tone controls are each equipped with 6-position turnover frequency selectors. For MC cartridges, the L-525 has a symmetric differential push-pull equaliser using a high-Gm, low-noise FET developed specifically for the requirements of amplifying the feeble MC output signal. A car-

tridge selector that permits adjustment of impedance means there is no need for an external transformer with almost any type of MC cartridge. Front panel switches for subsonic and high-cut filters add more flexibility to this impressive component. Output power is $110W \times 2$ (8 ohms, 20Hz—20kHz).

The Dynamic Power Needed for Digital Sources and the Facilities Required to Control a Diverse Audio System

L-435

Ultimate Fidelity Integrated Amplifier



Behind the L-435's high output power and low distortion are two exclusive Luxman technologies. One is the Duo-Beta Circuit that adds the optimum amount of negative feedback for clean reproduction of mid to high-range frequencies. Additionally, servo negative feedback is applied to the subsonic region to better control bass reproduction. The second technology is the STAR Circuit that does away with inter-stage interference by using a concentrated grounding system. In this system, earth lines are placed from the reference point to each circuit block and

signal path, avoiding the problems caused by conventional common grounding. Another important feature is a bias circuitry employing LEDs for very sharp rise and decay characteristics. The high-speed response makes it possible to accurately amplify even the most difficult transients. For truly high dynamic power, the output stage, power supply section and protection circuit are reinforced. The result is a power output of 110W x 2 at 8 ohms from 20Hz to 20kHz with no more than 0.015% of total harmonic distortion. Dynamic output power at 4 ohms is 250

watts. The L-435 also has a high-efficiency output stage, high-gain MC amplifier, and NF-type tone controls. An Input Straight Function is provided to allow simplification of the signal path when desired by bypassing filters, the mode switch and all other unnecessary pre-amp circuitry. On the front panel, the L-435 simplifies operations by providing large tone controls with center flat positions, as well as a large input selector and volume control. There is also a subsonic filter switch, high-cut filter switch, tape and dubbing selectors and headphones jack.

Excellent Value and the High-Grade Performance Required to Serve as the Centrepiece of a Luxman System

L-405

Ultimate Fidelity Integrated Amplifier



The L-405 is loaded with many of the features of the more powerful L-435 to offer music lovers on a budget an opportunity to experience true high-grade Luxman amplification. As in the L-435, the L-405 employs both the Luxman-developed Duo-Beta Circuit for optimum negative feedback characteristics and the STAR Circuit that provides a discrete earth line for each major circuit block. The bias circuit used at the phono EQ stage employs LEDs instead of normal diodes to provide improved rise and decay. The output stage is highly efficient, incorporating a parallel push-pull configuration. Together with the large electrolytic

capacitors, this ensures stable operation even when the L-405 is confronted with a momentary drop in speaker impedance to 2 ohms or a sudden transient peak from a digital source. What's more, the ICs for the pre-driver and output stages are integrated into a single package to assure a uniform operating temperature throughout. To protect powerful signals from affecting weak ones, there are two power supplies, one for the driver stage and a second for the preceding stages. Other features contributing to this component's sonic excellence are a high-gain MC amplifier, a phono amp section with low-noise, junction type FETs for a superb

S/N ratio, NF-type tone controls for a smooth response curve, and a direct speaker connection system in which the driver stage is coupled directly to the speaker terminals rather than via a speaker switch. On the front panel is a large number of controls including switches for subsonic and high cut filters, separate A and B speaker selectors, a tone in selector to completely remove the tone control circuitry from the signal path when desired, and switches for the mode, loudness, tape 1/2 and dubbing.



D-01

Ultimate Fidelity Compact Disc Player

Inside and out, the D-01 is built to deliver the precision and operational convenience of which the CD format is capable. Inside, features include a true 16-bit D/A converter to ensure faithful processing of the 16-bit code on the disc. The D/A conversion block also employs a double oversampling digital filter to move the first band of ultrasonic frequencies well away from the upper end of the audio spectrum. This allows the use of an analogue filter having a more gradual cut-off slope than would otherwise be required, there-

All the Technology and Operational Features Needed to Make the Most of the Digital Format

by improving high-end phase accuracy. Overall performance is further improved by the "High Rigid Lock" mechanism. This unique Luxman construction protects the pickup from external vibrations by separating it from the base using a special type of rubber and coil springs. Two dense vibrationless steel plates provide added protection. The exclusive Luxman STAR Circuit heightens fidelity by providing separate earth and power supply lines for each block. For operational convenience, the D-01 has an 8-digit

fluorescent display that simultaneously shows the remaining or elapsed playing time, track number and index number, 16-track memory play, and a 29-key infrared remote control unit. A digital output terminal is provided to allow direct connection with other digital components.



T-03(L)

Ultimate Fidelity Synthesiser Tuner

The T-03(L) is packed with facilities for convenience and operational versatility as well as the advanced circuitry you would expect in any Luxman component. For example, a 24-station memory makes it possible to tune in all your favourite broadcasts with one-touch simplicity. An Optimum Twin Detector ensures the best reception quality possible with strong and weak broadcasts alike. For strong signals, a pulse-count detector having a high-S/N ratio is employed. When signal strength falls below a certain level, a PLL detector automatically takes over to provide im-

24-Station Preset Tuning and Sophisticated Engineering for Top Class Specifications

proved sensitivity, allowing the maintenance of stereo reception even with relatively weak broadcasts. Additionally, programmable selection of auto high-blend is performed by the T-03(L)'s Computer Analysed Tuning System in a single form. That means optimum reception quality of strong and weak stations is automatic. As a result of these and other features, the T-03(L) has eye-catching specifications like FM mono distortion of just 0.04% (at 1kHz) and an FM mono S/N ratio of 88dB.

T-404(L) Ultimate Fidelity Synthesiser Tuner

Other Features

- IF wide/narrow selector for optimum reception of strong and weak FM broadcasts
- Timer recording possible for up to five preset stations (when using an external timer)



Fully Computerised Tuning System to Guarantee Optimum Performance with Any Cassette Tape



K-05/K-04

Ultimate Fidelity Computer Tuning Cassette Decks

The K-05 and K-04 are highlighted by a microprocessor that automatically sets and memorises the proper bias current, equalisation and recording input level for the type of cassette tape being used. This guarantees that the full potential of each tape will be obtained. The tape transport mechanism is a 3-motor closed-loop dual-

capstan type with a direct-drive motor for capstan drive and a torque-control motor for reel drive. An automatic demagnetiser keeps the heads free of magnetisation. Full-logic tape mode switching with large, feather-touch keys make tape transport switching a pleasure. Other features include Dolby B and C NR, a real-time tape

counter, unusually informative display panel, VU-selectable meters for ease and accuracy when making manual recording level adjustments, review/cue, auto-space and a pitch control. Both decks have a remote control capability.

Precision Rotary Head System, Quick Reverse and Numerous Facilities for Recording and Playback



K-406/K-405

Ultimate Fidelity Auto-Reverse Cassette Decks

For stable performance in both tape travel directions, these decks employ a rotating head system in a die-cast aluminium housing. To maintain ideal head-to-tape contact, independent azimuth adjustment can be performed in both directions. Annoying gaps between cassette sides are almost non-existent thanks to a quick reverse system that detects the transparent leader section of a tape instead of waiting until

the very end of the tape is reached to switch directions. Playback functions include Programmable Search (only K-406), Intro Scan that plays the beginning of each selection for 12 seconds, Blank Skip, Blank Search, Music Search to play the next selection or repeat the current one, Auto Rec Pause, and Auto Space. Both decks have Dolby B and C NR while the K-406 also incorporates dbx NR and

Dolby HX Pro. Other features unique to the K-406 are a real-time digital tape counter, a bias fine control, and a 12-segment level indicator. Both decks have a master recording input level control with separate L/R balance control, a timer function and remote control capability.

PD-291/PD-290

Ultimate Fidelity Turntables

The PD-291 is a fully automatic direct-drive turntable housed in a tasteful rosewood veneer cabinet. The platter is driven by a quartz-locked direct-drive motor for precision and stability. Tonearm movement is controlled by a microprocessor for flawless operation. Tracking is enhanced by the use of a straight, low-mass tonearm that minimises resonance problems and follows record warps more easily than other types of tonearms. The PD-291 also has the Luxman ADP (Automatic Disc Pause) system that, when making a recording from a disc, automatically switches the

Slimline Styling, Easy Operation and Superb Stability



Luxman cassette deck from the recording to the pause mode when the end of a disc is reached. The PD-290 incorporates

the same features as the PD-291 in a semi-automatic format with an automatic shut-off function when disc play is completed.

SPECIFICATIONS

PREAMPLIFIERS

	VACUUM STATE CL-360	SOLID STATE C-05	SOLID STATE C-03	SOLID STATE C-02
Output Voltage	2.0V (nominal), 20V (max)	1.5V (nominal), 18V (max)	1V (nominal), 10V (max)	1V (nominal), 18V (max)
Output Impedance	300Ω	320	200	1000
Total Harmonic Distortion [HF-A weighted Rated Output]	MM: 0.05% MC: — LINE: 0.05%	MM: 0.005% MC: 0.01% LINE: 0.002%	MM: 0.005% MC: 0.01% LINE: 0.004%	MM: 0.005% MC: 0.01% LINE: 0.005%
Frequency Response	MM: 20Hz—20kHz (±0.3dB) MC: — LINE: 5Hz—100kHz (±1dB)	MM: 20Hz—20kHz (±0.2dB) MC: 20Hz—20kHz (±0.2dB) LINE: 2Hz—100kHz (±0.5dB)	MM: 20Hz—20kHz (±0.3dB) MC: 20Hz—20kHz (±0.3dB) LINE: 10Hz—100kHz (±0.3dB—0.8dB)	MM: 20Hz—20kHz (±0.3dB) MC: 20Hz—20kHz (±0.3dB) LINE: 10Hz—80kHz (±0.3dB)
Signal-to-Noise Ratio [HF-A weighted Rated Output]	MM: 81dB (5mV) MC: 80dB (250μV) LINE: 97dB	MM: 90dB (5mV) MC: 80dB (250μV) LINE: 110dB	MM: 85dB (5mV) MC: 68dB (440μV) LINE: 110dB	MM: 90dB (5mV) MC: 77dB (250μV) LINE: 110dB
Phono Overload [1kHz, RMS]	260mV	250mV	220mV	250mV
Input Sensitivity	MM: 18mV, 50kΩ LINE: 170mV, 100kΩ	MM: 2mV, 50kΩ LINE: 150mV, 47kΩ	MM: 2.5mV, 50kΩ LINE: 150mV, 47kΩ	MM: 2mV, 50kΩ LINE: 130mV, 47kΩ
Vacuum Tube Complement	12AX7/7025 (3) 12AU7/6189 (5)	—	—	—
Dimensions (W x H x D)	493 x 142 x 402mm	460 x 130 x 442mm	438 x 88 x 328mm	453 x 81 x 317mm
Weight	11.5kg	11.0kg	5.2kg	7.0kg

POWER AMPLIFIERS

	VACUUM STATE MQ-360	SOLID STATE M-05	SOLID STATE M-03	SOLID STATE M-02
Output Power (8Ω)	40W x 2 (20Hz—20kHz)	[Pure Class-A] 105W x 2 (20Hz—20kHz)	200W x 2 (20Hz—20kHz)	150W x 2 (20Hz—20kHz)
Total Harmonic Distortion	0.2%	0.008%	0.012%	0.015%
Frequency Response	10Hz—30kHz (-1dB)	10Hz—100kHz (0—0.5dB)	10Hz—100kHz (0—1dB)	10Hz—100kHz (0—1dB)
Signal-to-Noise Ratio [HF-A weighted]	100dB	120dB	120dB	120dB
Input Sensitivity	1.1V 100kΩ	1.2V 45kΩ	1V 25kΩ	1.2V 45kΩ
Input Impedance	—	—	—	—
Dimensions (W x H x D)	434 x 176 x 252mm	460 x 210 x 437mm	438 x 145 x 420mm	453 x 141 x 336mm
Weight	19.0kg	40.0kg	23.6kg	14.5kg
Vacuum Tube Complement	6550A (4) 6CG7 (2) 12AU7 (2)/6189	—	—	—

INTEGRATED AMPLIFIERS

	L-560	L-525	L-435	L-405
Output Power (8Ω)	50W x 2 (20Hz—20kHz)	110W x 2 (20Hz—20kHz)	110W x 2 (20Hz—20kHz)	70W x 2 (20Hz—20kHz)
Dynamic Power Output	—	230W (4Ω)	250W (4Ω)	110W (4Ω)
Rated IM	0.005% (8Ω—3dB, 60Hz/7kHz=4:1)	0.007% (8Ω—3dB, 60Hz/7kHz=4:1)	0.015% (8Ω—3dB, 60Hz/7kHz=4:1)	0.02% (8Ω—3dB, 60Hz/7kHz=4:1)
Input Sensitivity & Input Impedance	Phono MM: 2mV/50kΩ Phono MC: 90μV/40, 100Ω LINE (CD, tuner, tape): 150mV/40kΩ	Phono MM: 2mV/50kΩ Phono MC: 100μV/40, 100, 350Ω LINE (CD, tuner, tape): 150mV/50kΩ	Phono MM: 2mV/50kΩ Phono MC: 100μV/100Ω LINE (CD, tuner, tape): 180mV/40kΩ	Phono MM: 2mV/50kΩ Phono MC: 200μV/100Ω LINE (CD, tuner, tape): 180mV/40kΩ
Signal-to-Noise Ratio [HF-A weighted]	Phono MM: 86dB Phono MC: 80dB LINE (CD, tuner, tape): 110dB	Phono MM: 85dB Phono MC: 70dB LINE (CD, tuner, tape): 110dB	Phono MM: 90dB (5mV) Phono MC: 70dB (250μV) LINE (CD, tuner, tape): 110dB (500mV)	Phono MM: 90dB (5mV) Phono MC: 67dB (250μV) LINE (CD, tuner, tape): 107dB (500mV)
Frequency Response	Phono MM: 20Hz—20kHz (±0.2dB) Phono MC: 20Hz—20kHz (±0.2dB) LINE (CD, tuner, tape): 10Hz—100kHz (-1dB)	Phono MM: 20Hz—20kHz (±0.2dB) Phono MC: 20Hz—20kHz (±0.2dB) LINE (CD, tuner, tape): 10Hz—100kHz (-1dB)	Phono MM: 20Hz—20kHz (±0.3dB) Phono MC: 20Hz—20kHz (±0.3dB) LINE (CD, tuner, tape): 10Hz—100kHz (-1dB)	Phono MM: 20Hz—20kHz (±0.5dB) Phono MC: 20Hz—20kHz (±0.5dB) LINE (CD, tuner, tape): 10Hz—100kHz (-1dB)
Dimensions (W x H x D)	453 x 174 x 470mm	453 x 162 x 430mm	453 x 139 x 424mm	453 x 138 x 315mm
Weight	20.0kg	14.3kg	12.0kg	9.3kg

CASSETTE DECKS

	K-05/K-04	K-406/K-405
Driving System	3-Motor dual capstan	3-Motor dual-capstan
Heads	3 head system	2 head rotary system
Record	Serduid	Hexalium (REC/PB)
Playback	HIP Ferrite	—
Erase	Dual-gap Ferrite	Ferrite
Wow & Flutter	0.022%	0.05%
Frequency Response	Metal: 15Hz—27kHz (K05) 20Hz—23kHz (K04) CrO ₂ : 15Hz—22kHz (K05) 20Hz—21kHz (K04) LH: 15Hz—22kHz (K05) 20Hz—21kHz (K04)	Metal: 20Hz—19kHz CrO ₂ : 20Hz—19kHz LH: 20Hz—17kHz
Distortion	0.6%	0.7%
Signal-to-Noise Ratio	Metal: 73dB Dolby C on: 71dB Dolby B on: 67dB Dolby off: 60dB dbx on: —	Metal: 71dB CrO ₂ : 71dB 67dB 60dB 90dB (25dB (K406)
Input	100mV/50kΩ (K5) 100mV/47kΩ (K4)	130mV/25kΩ
Output	550mV/47kΩ	500mV/1kΩ
Dimensions (W x H x D)	460 x 158 x 361mm	438 x 114 x 307mm
Weight	11.5kg (K05) 11.0kg (K04)	4.5kg

TUNER

	T-03(L)
Tuning System	Frequency Synthesised
<FM Section>	
Usable Sensitivity	0.75μV (75Ω) (8.8dB)
Signal-to-Noise Ratio at 65dB	Mono 88dB Stereo 78dB
Frequency Response	20Hz—15kHz (±0.5dB)
Distortion at 65dB	Mono 0.04% Stereo 0.05%
Spurious Response Ratio	110dB
Stereo Separation (1kHz)	58dB
<MW Section>	
Usable Sensitivity	58dBm
Signal-to-Noise Ratio	50dB
Output Level	210mV
<LW Section>	
Usable Sensitivity	68dBm
Signal-to-Noise Ratio	50dB
Output Level	210mV
Dimensions (W x H x D)	438 x 63 x 310mm
Weight	4.5kg

COMPACT DISC PLAYER

	D-01
Pickup	Semi-conductor laser pickup
D/A Conversion	16-bit linear
Channel	2-channel, stereo
Frequency Response	5Hz—20kHz (±0.3dB)
Dynamic Range	More than 95dB
Signal-to-Noise Ratio	More than 98dB
Total Harmonic Distortion	0.004%
Channel Separation	More than 90dB (1kHz)
Wow & Flutter	Below measurable level
Output	2.0V
Digital Output	0.5Vp-p/75Ω
Dimensions (W x H x D)	438 x 85 x 314mm
Weight	5.2kg
Design and specifications are subject to change without notice	
* "Dolby" and "HX pro" are trademarks of Dolby Laboratories Licensing Corporation	
* "dbx" is a registered trademark of dbx Inc.	

The fame of Luxman for excellence in audio engineering did not come about overnight. Rather, it is the result of six decades of dedication to nothing but the pursuit of perfection in the reproduction of sound. As the Luxman staff consists of lovers of fine music who are also skilled engineers, we are well aware of the fact that the reproduction of realistic sound depends on much more than simply laboratory data. That's why Luxman components are a careful mixture of advanced technology, much of it proprietary, that contributes to the specifications you see and to the subtle sonic nuances that can only be heard. This is what the Luxman difference is all about. We invite you to experience this sensation personally at your nearest dealer.

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