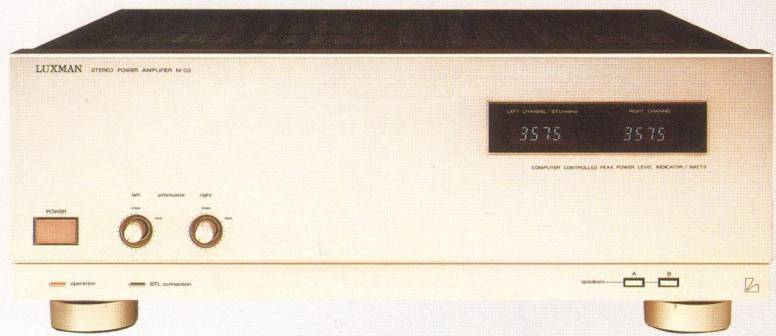


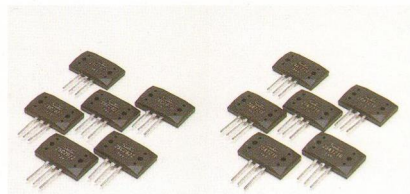
M-03

Ultimate Fidelity Power Amplifier



200 Watts of Output Power

Output power of the M-03 is a massive 200 watts RMS per channel at 8 ohms, 20Hz–20kHz. When used as



Twelve bipolar transistors, six for each channel

a monaural amplifier (BTL connection), output power rises to 700 watts per channel at 8 ohms. At the heart of the output stage for each channel are six bipolar transistors in a triple parallel configuration. The most important benefit of this design is the ability to meet the power demands of low impedance (2 ohms, for example) speaker systems. This construction also delivers very high gain, outstanding transient response and unmatched sonic purity.

Voltage Amplification

To avoid the problems that accompany current amplification — such as current distortion and inherent interferences between amp stages due to insufficient inter-stage insulation — the M-03 employs voltage amplification in all stages except the output stage. Based on FETs, the voltage amplification begins with a differential circuit incorporating a dual-type J-FET housed on a single chip. Next is a cascode bootstrap current mirror load circuit with a current mirror type fixed-current circuit. In the predriver stage, the M-03 has a high-Gm MOS FET in a cascode, fixed-current load configuration.

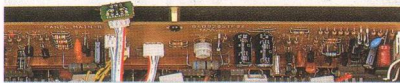
Generous Power Supply and Large Heat Sinks

Power supplied to the output (current amplification) stage comes from four 15,000 μ F block capacitors, two for each channel. To withstand the heat produced by high currents, heavy gauge wires and wide circuit board patterns are employed. Interference between the current and voltage amplification sections is minimised by using separate power transformer windings for the power supplies of each section. The power transformer itself is a heavy-duty type. To effectively dissipate the heat generated by the large amount of power generated by



15,000 μ F block capacitors

the M-03, there are two enormous aluminium heat sinks, each weighing approximately 1.5 kilograms.



One of the M-03's enormous heat sinks

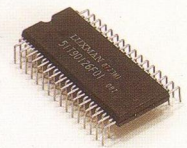
the M-03, there are two enormous aluminium heat sinks, each weighing approximately 1.5 kilograms.

STAR Circuit

Using shared ground and power supply lines for separate amplifier blocks can cause a number of problems. Most annoying is noise and distortion in one block affecting the performance of another. To do away with this problem, the M-03 features the exclusive Luxman STAR Circuit. By making the earth and power supply lines to each block independent, the STAR Circuit greatly reduces the effect of one amplifier block on the operation of the others.

Digital Peak Power Meters

Instead of using needles, the M-03 displays peak power levels using two digital displays driven by a custom-made microprocessor chip. These easy-to-read displays provide highly accurate level readings down to tenths of a watt and also serve to give the front panel a sleek appearance. Rear panel selectors allow adjusting the meter to speaker system ratings of four, six and eight ohms and to switch the peak hold time between 1.0 and 3.0 seconds or off.



A custom-made microprocessor controls the meters.

Speaker Selectors and Large Terminals

On the front panel are separate A and B speaker selectors to facilitate easy switching among the A, B and



Extra-large speaker terminals to accept high-quality cables

A+B speaker output modes. The rear panel has large speaker terminals to permit the use of heavy-gauge cables with no difficulty.

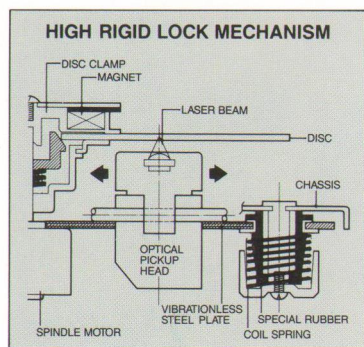
Other Features

- Exclusive Luxman Duo-Beta Circuit to provide the optimum amount of NFB
- Discrete circuitry with carefully selected parts used throughout
- BTL operation indicator
- Left and right attenuators
- Gold-plated terminals

Two elegant Champagne Gold components that are perfect additions to your Luxman home entertainment system

D-01

Ultimate Fidelity Compact Disc Player



All the Potential of the Compact Disc Format

The D-01 incorporates a 16-bit D/A convertor section with double over-sampling digital filter to eliminate the need for a steep low-pass filter. Another feature is the "High Rigid Lock" mechanism, which isolates the pickup assembly from external vibrations.

connection to a component having a built-in D/A convertor, so the output signal is not susceptible to analogue domain problems.

A Wide Array of Functions

The D-01 has four repeat modes, track and index search, and a 16-track memory to allow listening to disc contents in the desired order. Other useful features include a wide, easy-to-read 8-digit fluorescent display and a 29-key infrared remote control unit.

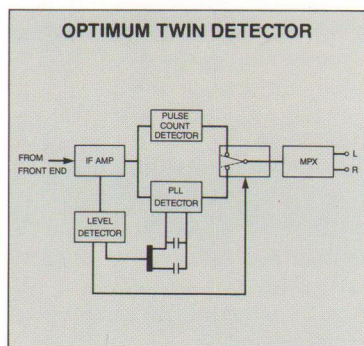
Digital Out Terminal

This terminal allows making a digital



T-03(L)

Ultimate Fidelity Synthesiser Tuner



Optimum Twin Detector

This Luxman technique employs two detectors to guarantee optimum reception quality with strong and weak broadcasts alike. For strong signals, detection is performed by a pulse-count detector that boasts a high S/N ratio. When signal strength falls below a certain level, a PLL detector is used to raise sensitivity.

ory for recall by pressing one of the front panel preset tuning buttons. A timer programming function allows up to five preset stations to be recalled when using an external timer.

Superior Convenience and Reception Quality

In addition to preset tuning, stations may be located using either the manual or automatic tuning mode. For clear reception even on crowded FM dials, there is an IF wide/narrow selector. Other useful features include a recording calibration switch with indicator, auto hi-blend and mono switches.

24-Station Preset Tuning and Timer Programming

Up to 24 FM and AM/LW stations can be stored in the T-03(L)'s mem-





TRADITIONAL EXCELLENCE

C-03

Ultimate Fidelity Preamplifier

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

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.

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

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

High Power Output

Power output of this incomparable power amp is 200W x 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 configuration. The result is high gain with unmatched sonic purity.

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.

Huge Power Supply and Large Heat Sinks

The power supply for the output (current amplification) stage is built around two 15,000µF block capacitors for each channel. 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

TRADITIONAL EXCELLENCE

M-03

Ultimate Fidelity Power Amplifier

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

SPECIFICATIONS

SOLID STATE



C-03 PREAMPLIFIER

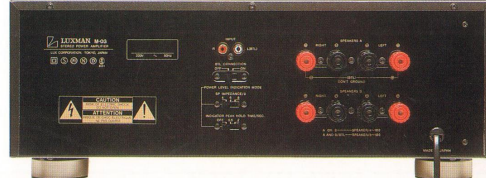
Output Voltage	1V (nominal), 10V (max.)
Output Impedance	20Ω
Total Harmonic Distortion (Rated Output)	MM: 0.005% MC: 0.01% LINE: 0.004%
Frequency Response	MM: 20Hz–20kHz (±0.3dB) MC (100Ω): 20Hz–20kHz (±0.5dB) LINE: 10Hz–100kHz (+0.3, –0.8dB)
Signal-to-Noise Ratio (IHF-A Weighted, Rated Output)	MM: 85dB (5mV) MC (100Ω): 67dB (250μV) LINE: 110dB
Phono Overload	220mV (1kHz, RMS)
Input Sensitivity & Impedance	MM: 2.5mV, 47kΩ MC: 100μV (3Ω), 220μV (40/100Ω)
Tone Controls	Bass turnover frequency: 100Hz Max. variable amount: ±6dB Treble turnover frequency: 10kHz Max. variable amount: ±6dB
Subsonic Filter	15Hz (–3dB)
Dimensions (W×H×D)	438×88×328mm
Weight	5.5kg



D-01 COMPACT DISC PLAYER

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×H×D)	438×85×314mm
Weight	5.2kg

SOLID STATE



M-03 POWER AMPLIFIER

Output Power	200W×2, 20Hz–20kHz, 8Ω
Dynamic Power	500W×2, 4Ω 700W×2, 2Ω
Power Output with	500W, 1kHz, 8Ω
BTL Connection	700W, 8Ω (clipping point)
Total Harmonic Distortion	0.012% (1kHz)
Frequency Response	10Hz–100kHz (+0, –1dB)
Signal-to-Noise Ratio (IHF-A Weighted)	120dB
Input Sensitivity	1V
Input Impedance	45kΩ
Damping Factor	100 (8Ω, 1kHz)
Dimensions (W×H×D)	438×165×420mm
Weight	23.6kg



T-03(L) TUNER

Tuning System	Frequency synthesised
<FM Section>	
Usable Sensitivity	0.75μV (75Ω) (8.8dBf)
Signal-to-Noise Ratio at 65dB	Mono: 88dB Stereo: 78dB
Frequency Response	20Hz–15kHz (±0.5dB)
Distortion at 65dBf	Mono: 0.004% Stereo: 0.05%
Spurious Response Ratio	110dB
Stereo Separation (1kHz)	58dB
<MW Section>	
Usable Sensitivity	58dB/m
Signal-to-Noise Ratio	50dB
Output Level	210mV
<LW Section>	(Only with T-03L)
Usable Sensitivity	68dB/m
Signal-to-Noise Ratio	50dB
Output Level	210mV
<General>	
Dimensions (W×H×D)	438×63×310mm
Weight	4.5kg

LUXMAN

Amplifiers engineered to meet the requirements of today's audio systems, from digital sources to low impedance speakers, in the Luxman tradition of ultimate fidelity

Separate Amplifiers

C-03/M-03



Authorised Dealer



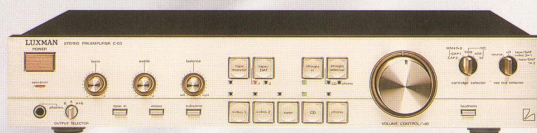
LUX CORPORATION, JAPAN

INTERNATIONAL MARKETING DEPT.
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MF87259-077CC-16K/Printed in Japan

LUX CORPORATION

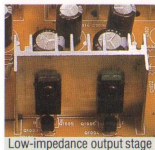
C-03

Ultimate Fidelity Preamplifier



Class A Output Stage

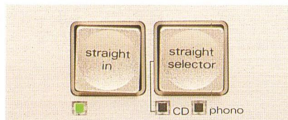
The C-03 incorporates a low-impedance output stage (1 watt at 8 ohms) having true class A operation to eliminate crossover distortion. Having this output stage makes it possible to use extremely long cables when connecting the C-03 to the power amp or active speaker systems.



Low-impedance output stage

Switchable CD Straight and Phono Straight Modes

The CD Straight mode is an excellent example of Luxman's dedication to providing the highest sonic purity possible. When activated by a front panel switch, this mode routes the input signal from your CD player through the C-03, using the most direct path. Since all unnecessary



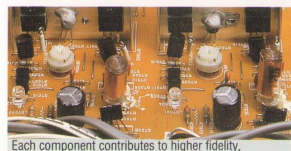
Separate switches for straight mode selection and activation

circuitry (input selection, tone control, balance control, subsonic filter, etc.) is bypassed, the signal passed on to the power amp has the same ultra-high quality as when it left the CD player itself. Similar to the CD Straight mode, Phono Straight provides the shortest path through the C-03 for the phono signal.

Carefully Selected Parts

Sonic performance is given first consideration in the selection of all cir-

cuit components. Examples of the high-grade components employed include mica capacitors for phase compensation, copper foiled capacitors in the phono EQ stage, and LEDs for the bias current. The results are an extremely low level of noise and distortion as well as sharp sonic definition, qualities that are possible only with discrete circuitry engineered by the specialists in audio.



Each component contributes to higher fidelity.

Five-Position Cartridge Selector

With five positions, the C-03's cartridge selector provides compatibility with almost any phono cartridge available today. Of particular interest is the 3 ohm position to supply precisely the correct amount of input impedance for ultra-high-grade MC cartridges of this type.



cartridge selector
Full cartridge compatibility

Meticulously Designed Power Supplies

The power supplies for the positive and negative voltages are completely independent from the secondary side of the power transformer through each voltage regulator. Furthermore, each power supply incorporates two 3,300µF electrolytic capacitors. Separate regulated power supplies, each designed for its own specific task, are provided for the phono amp, where extremely weak signals are handled, and the intermediate amp.

STAR Circuit

Luxman's exclusive STAR Circuit provides independent earth and power supply lines for each major block of the C-03. Since no two blocks have a common power or earth line, mutual interference between stages is virtually eliminated. Sonically, this translates into a higher degree of definition and transparency.

A Full Range of Controls

The C-03 is equipped to serve as the control centre of a complete audio and video entertainment system. Input selectors are supplied for tuner, CD and phono as well as two video components. For tape decks, including DAT recorders, there is a tape 1/2 selector and monitor switch.

Facilities for Video Sources

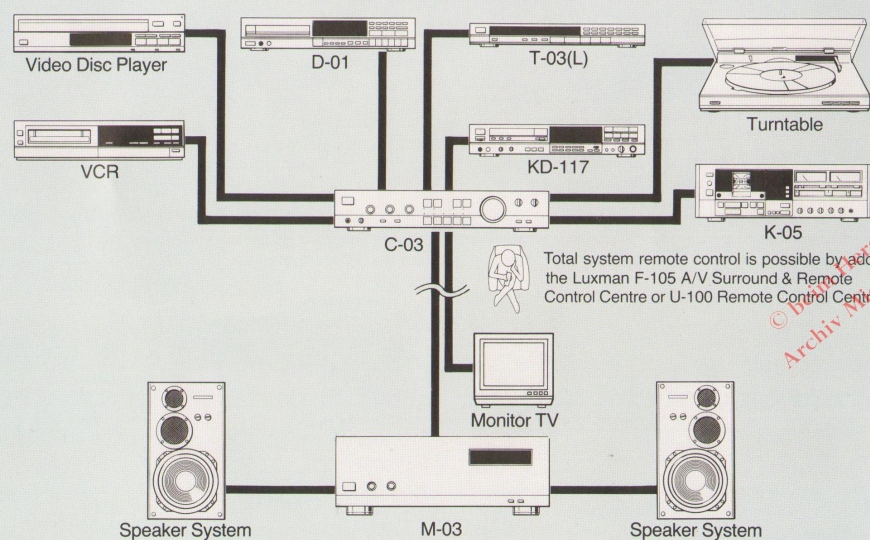
On the rear panel are audio and video terminals for two video components and a separate video output terminal for a monitor. Additionally, by incorporating a high-quality video amplifier, the C-03 permits dubbing between two video components — a video cassette recorder and video disc player, for example — with no loss of picture quality.

Other Features

- Exclusive Luxman Duo-Beta Circuit to provide the optimum amount of NFB
- Main volume circuitry placed after tone control section to simplify the circuit design and allow reduction of tone amp noise when volume is turned down
- Gold-plated terminals

*Luxman is much more than fantastic sound —
An ensemble of fine Luxman components is the
ideal choice as the foundation of a complete home
audio/video entertainment centre.*

The Best in A/V Entertainment



Total system remote control is possible by adding the Luxman F-105 A/V Surround & Remote Control Centre or U-100 Remote Control Centre.

Serving as an Audio/Video Control Centre

The C-03 not only has a full complement of rear panel terminals and front panel controls for audio components, but facilities for two video components as well. That means a video cassette recorder, video disc player or other video source may become a part of your Luxman system. For video dubbing, the C-03 includes a video amp to preserve picture quality. The video input signal of the source currently selected is sent to a monitor TV through a rear panel monitor terminal. For extra convenience, switching is performed using relays so the video signal from AV-1 is sent to the monitor even when the C-03's power switch is off.

Meeting the Challenge of Digital Sources

Compact disc players and other digital audio components place a whole new set of requirements on audio systems. The C-03 and M-03 fulfill these needs in a number of ways in addition to their inherent low-noise, low-distortion operation. The

C-03 features the CD Straight mode that sends the CD input signal on to the power amp using the shortest and simplest route possible. In the M-03, a high dynamic power (700 watts at 2 ohms) and outstanding transient response combine to ensure faithful amplification of all the demanding transient peaks contained in digital material.

Driving Low Impedance Loads with Safety and Stability

The actual impedance posed by a speaker system fluctuates significantly with frequency. Even with a speaker system rated at 8 ohms, for example, the impedance can drop as low as two to three ohms. The M-03 is designed to accommodate the extremely high power outputs that result when one of these instantaneous low impedances is encountered. Not a matter of simply raising the rated output power, Luxman's low impedance capability is the result of a thorough design procedure covering the power supply and all critical circuitry.