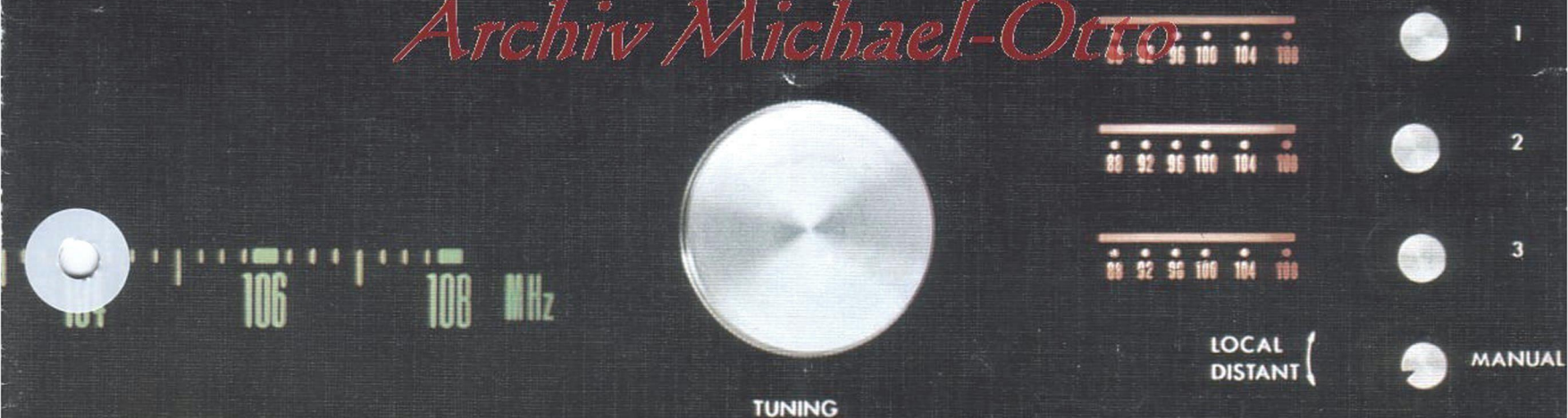


LUXMAN

900/990

● PRE-SET TUNING RECEIVER

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Archiv Michael-Otto*



900/990

PRE-SET TUNING RECEIVER

LUXMAN
NEW POWER BOARD

CR
FIL

*© beim Hersteller
Archiv Michael-Otto*

FM/AM
BUTTON

PHONO
1 - 2

FRONT PANEL
ALL LETTERS
SILK SCREENED

BASS CONTROL

TREBLE CONTROL

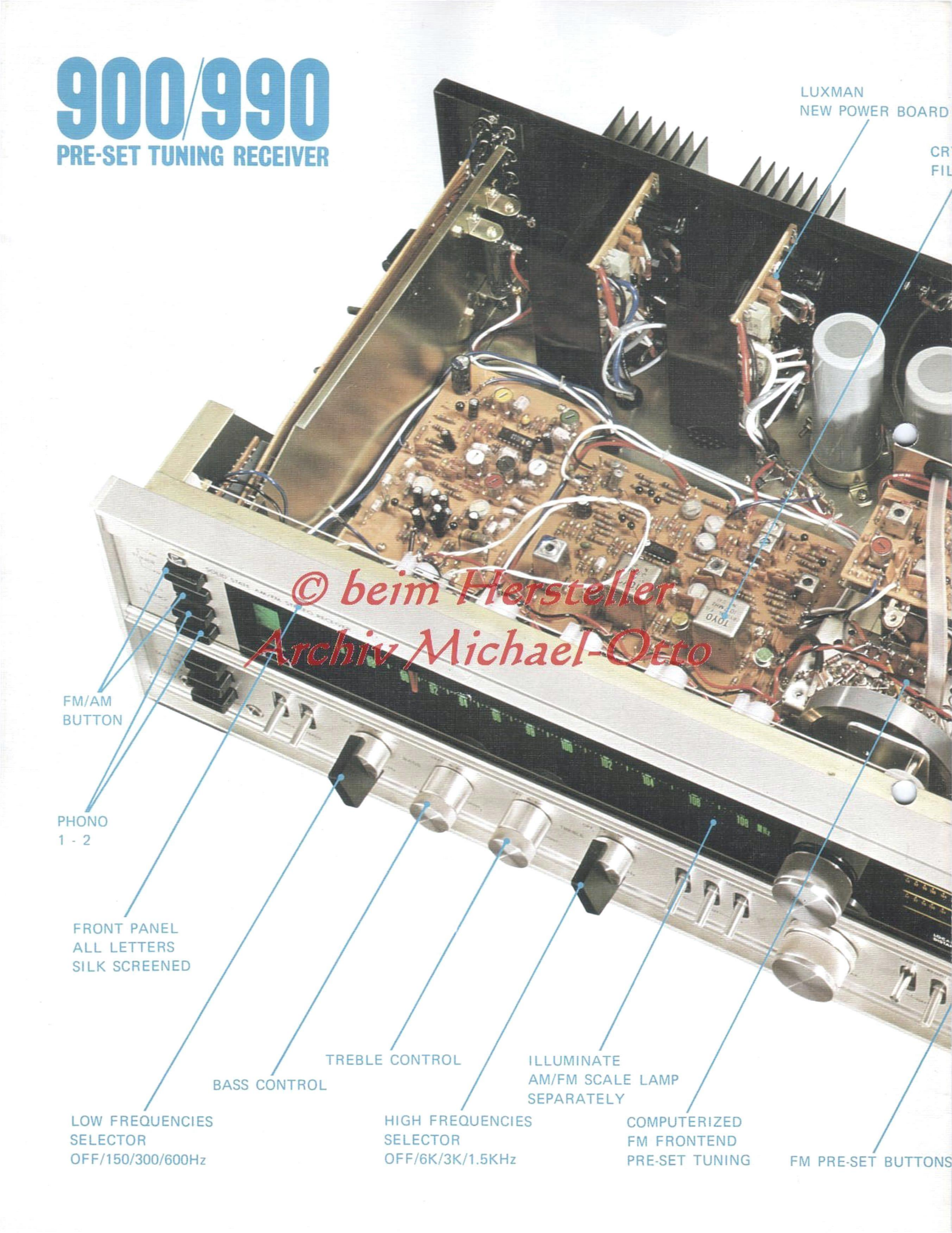
ILLUMINATE
AM/FM SCALE LAMP
SEPARATELY

LOW FREQUENCIES
SELECTOR
OFF/150/300/600Hz

HIGH FREQUENCIES
SELECTOR
OFF/6K/3K/1.5KHz

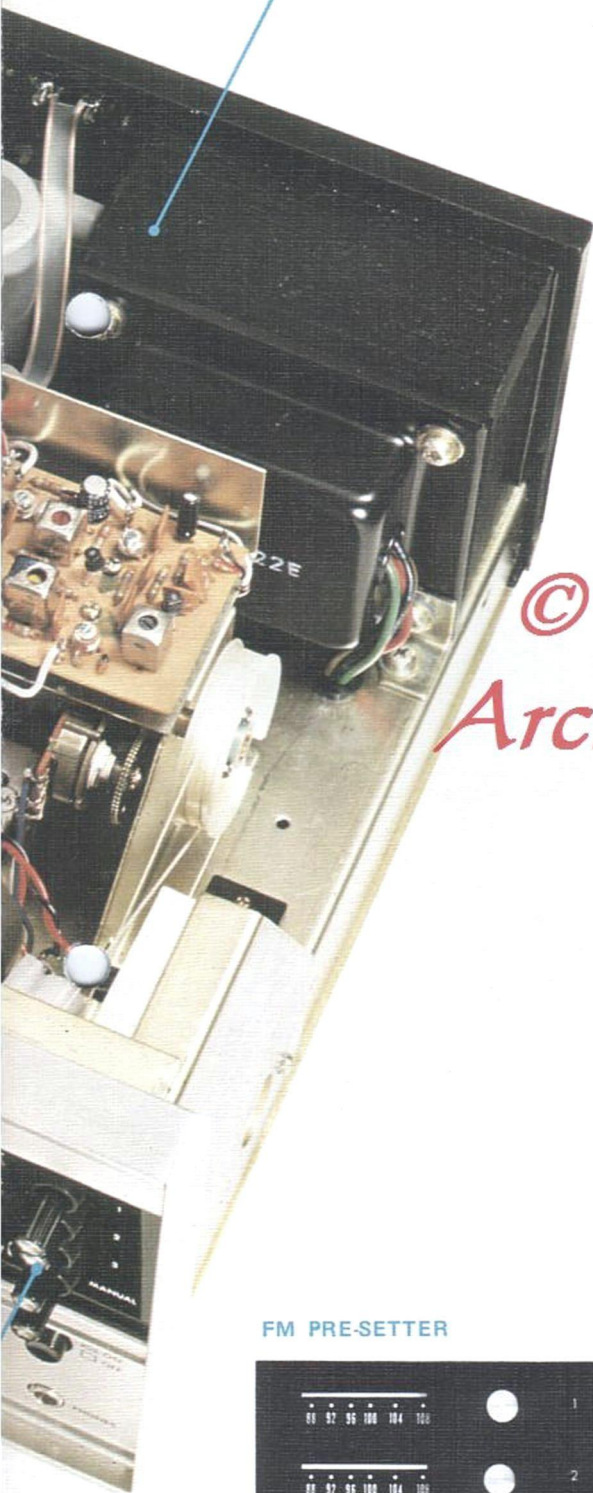
COMPUTERIZED
FM FRONTEND
PRE-SET TUNING

FM PRE-SET BUTTONS

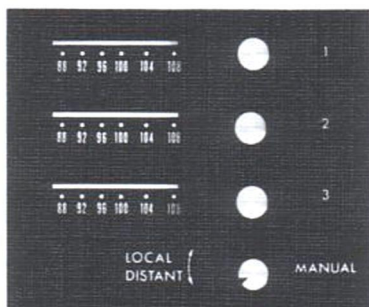


CRYSTAL
FILTER

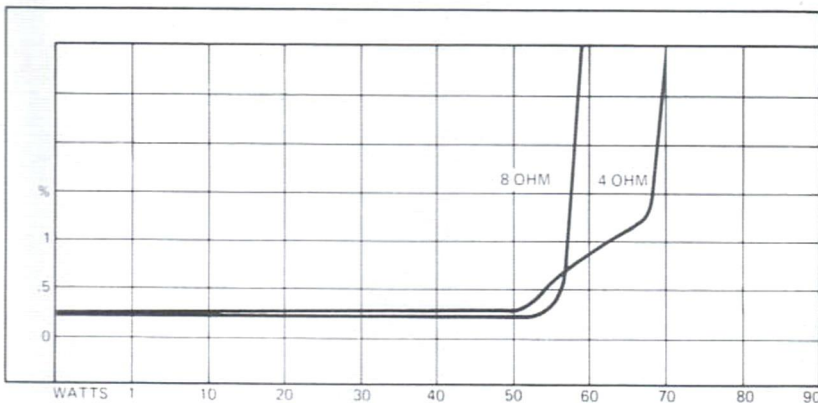
POWER TRANSFORMER
38 YEARS EXPERIENCE



FM PRE-SETTER



IM DISTORTION (900)



LUXMAN POWER TRANSFORMER:

LUX has long been a highly respected manufacturer of professional transformers. Dating back to 1925. LUX is famous among manufacturers for its power transformers and its amplifiers, and for the utmost in cool-running reliability. To many manufacturers LUX means reliability.

FM PRE-SETTER:

Varactor tuning circuits permit manual tuning across the entire FM band as well as 3 preset controls, each of which can be set permanently on a favorite station. Thus, when using the manual FM tuning control, the operator can return to any one of three stations by simply pressing a button. All three preset controls are capable of tuning the entire FM band independently with separate external controls.

TONE CONTROL:

The tone control equalization switches are more than a bass and treble control. With a LUX 900 or LUX 990 the audiophile can contour sound to suit the acoustics of the room by the use of two special 4-position switches: A bass switch that modifies the room acoustics at frequencies of 150 Hz, 300 Hz and 600 Hz; and a treble switch to equalize frequencies of 1.5 KHz, 3 KHz and 6 KHz. The 4th position (off) cancels all circuitry to provide a flat response.

Tone controls are dual concentric and can be used separately for both channels. Hence, the receiver provides all the flexibility required for variation in equalization to suit recording studios, broadcasting engineers, the individual ear response, or speaker and room acoustics.

POWER OUTPUT:

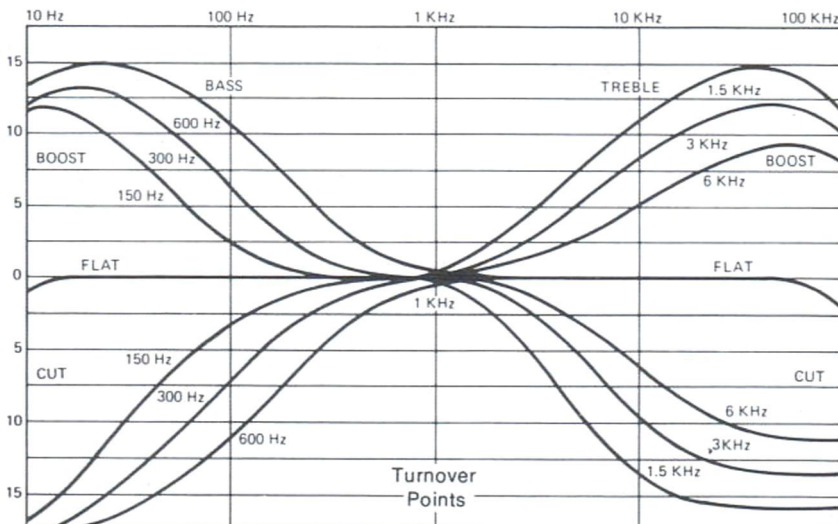
LUXMAN newly improved Power Board gives you 140W(100W for 900) into 8 ohms, both channels driven at rated distortion of 0.1% from 20 Hz to 20,000 Hz.

STYLING/APPEARANCE:

The appearance and ease of use of LUX products are the results of careful analysis of the receivers final use and human needs.: All controls are laid out logically. Smooth and durable machined-aluminum knobs are used for volume, tuning and tone controls. AM and FM bands "black out" when the receiver is in any other mode. Separate and independent illuminated scales are used for both AM and FM.

Front panel lettering is firmly silk screened, and will not rub off with handling. The front panel gives the appearance, then, of the highly sophisticated instrument that in fact it is.

TONE CONTROL RANGE AT THE VARIOUS CROSSOVER SELECTION



LUXMAN 900

Mechanical

Extruded front panel with endbells
Three dimensional dial separate
AM/FM illumination
Anodized aluminum knobs dual
concentric
Slope selector switch knob with
black insert
Two position toggle switches with
anodized metal handles
Push-buttons black
Pre-set push-buttons black with
gold insert
Size: 18.5" length x 6" high at
13.7" deep
(453 x 147 x 336mm)

Electrical

Inputs: aux., AM, FM, phono high,
phono low, tape in, tape out
with front dubbing jacks
Secondary switches: tape monitor,
mode stereo mono
Filter switches: noise, rumble,
loudness
Speaker switches: speaker main,
speaker remote, phones
Slope selector switches:
treble: off, 1.5, 3.0, 6.0 KHz
bass: off, 150, 300, 600 Hz
Pre-sets: for FM: 1 manual,
3 pre-sets
On-off switch

Indicators

Light indicated functions: phono
high, phono low, aux.
Light indication separately: AM,
FM
Light indicator: stereo
Light indicator: pre-set manual,
1, 2, 3 (on FM only)
Indicator light power on-off
Field strength and center tune
meter back lit.
AM dial: light on AM only
FM dial: light on FM only
Pointer illuminated on AM and FM
Pre-set dial: back lit on FM only.

LUXMAN 990

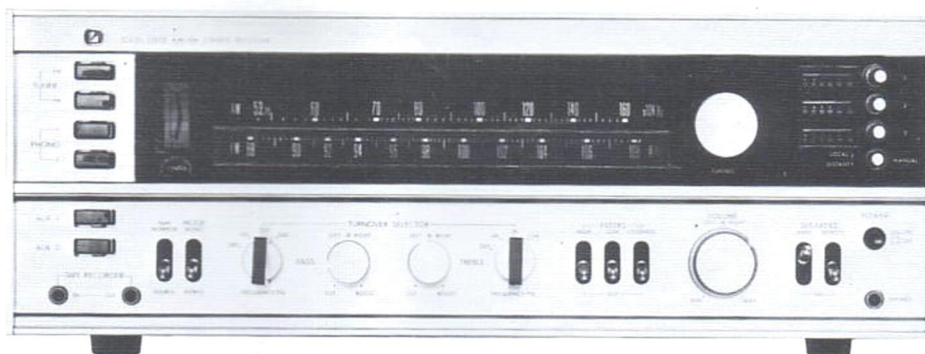
Mechanical

Extruded front panel with endbells
Three dimensional dial separate
AM/FM illumination
Anodized aluminum knobs dual
concentric
Slope selector switch knob with
black insert.
Two position toggle switches with
anodized metal handle.
Push-buttons black
Pre-set push-buttons black with
gold insert
Size: 18.5" length x 6" high at
13.7" deep.
(453 x 147 x 336mm)

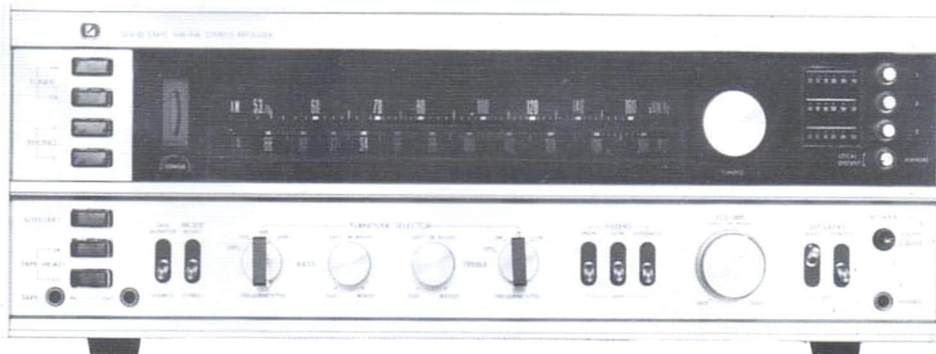
Electrical

Inputs: aux., tape 3-3/4, tape 7-1/2,
AM, FM, phone high, phone low;
tape in, tape out with front dub-
bing jacks.
Secondary switches: tape monitor,
mode stereo mono.
Filter switches: noise, rumble,
loudness
Speaker switches: speaker main,
speaker remote, phones
Slope selector switches:
Treble: off, 1.5, 3.0, 6.0 KHz.
Bass: off, 150, 300, 600 Hz.
Pre-sets: for FM: 1 manual,
3 pre-sets
On-off switch: light indicator
button

FRONT VIEW (900)

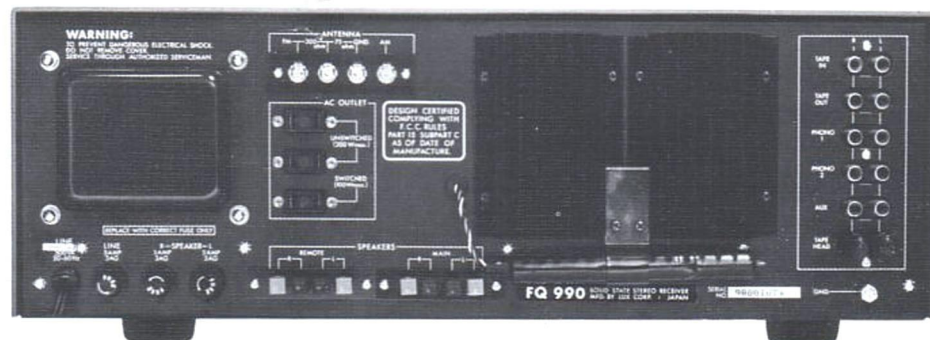


FRONT VIEW (990)



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Archiv Michael-Otto



Indicators

Light indicated functions:
tape 3-3/4, 7-1/2, phono high,
phono low, aux.
Light indication separately:
AM, FM
Light indicator: stereo
Light indicator: mono
Light indicator: center tune.
Light indicator: pre-set manual,
1, 2, 3 (on FM only).
Indicator light: power on-off.
Field strength meter: back lit.
AM dial: light on AM only.
FM dial: light on FM only.
Pointer: illuminated on AM and
FM.
Pre-set dial: back lit on FM only.

LUXMAN 900 AUDIO SECTION

Inputs	Sensitivity	Impedance	Over Load	Hum, Noise
Phono high	2.0 MV	50 K	130 MV	-60 dB
Phono low	10 MV	50 K	650 MV	-60 dB
AM	2.0 μ V	-----	-----	-6 dB S/N
FM	1.5 μ V	-----	-----	-30 dB
FM	3.0 μ V	-----	-----	-60 dB
Auxiliary	85 MV	100 K	5 V	-75 dB
Tape in (front & rear)	85 MV	50 K	-----	-75 dB
Outputs	Watts RMS	Impedance	Harm. Distortion%	Im. Distortion%
Single channel	60	4 OHM	0.1	0.2
Single channel	50	8 OHM	0.1	0.2
Both channels	120	4 OHM	0.2	0.3
Both channels	100	8 OHM	0.1	0.2
Single channel	10	4 & 8 OHM	0.1	0.2
Single channel	1	4 & 8 OHM	0.1	0.2
Performance	Hz	KHz	THD% $\pm$ 1dB	Remarks
Power bandwidth	15	30	0.5	-----
Frequency response	10	40	-----	-----
Square wave response	50	-----	5% tilt	no belly
Damping factor	4 OHM	-----	35 min.	-----
Damping factor	8 OHM	-----	50 min.	-----
Hum and Noise	Volume Control	Frequency	-dB max.	-dB min.
Residual	"O"	-----	-90	-80
Crosstalk aux.	max.	1 KHz	-70	-65
Crosstalk phone	max.	1 KHz	-65	-60
Filters	Frequency	Boost + dB	Cut - dB	Control Setting
High cut	5 KHz	-----	3	max.
Low cut	100 Hz	-----	3	max.
Loudness	100 Hz	5	-----	10 o'clock
Loudness	50 Hz	7	-----	10 o'clock
Treble	10 KHz	12	14	slope 1.5 KHz
Treble	10 KHz	10	10	slope 3.0 KHz
Treble	10 KHz	5	6	slope 6.0 KHz
Bass	100 Hz	5	5	slope 150 Hz
Bass	100 Hz	9	9	slope 300 Hz
Bass	100 Hz	13	13	slope 600 Hz

FM SECTION

Tuning range	87.5 to 108.5 MHz
IHF sensitivity	2.2 μ V
Image ratio	40 dB
IF. rejection	50 dB
Capture ratio	1 dB
Selectivity	50 dB
SN ratio	60 dB
Frequency response	30 Hz to 15 KHz
FM stereo separation	36 dB (400 Hz)
Carrier leak	-40 dB
Distortion 100% mod.	mono 0.2%
	stereo 0.5%
FM antenna impedance	300 Ω /75 Ω

AM SECTION

Tuning range	525 to 1605 KHz
IHF sensitivity	18 μ V
Image ratio	60 dB
IF. rejection	60 dB
SN ratio	50 dB
Frequency response	50 Hz to 4 KHz

LUXMAN 990 AUDIO SECTION

Inputs Selector	Sensitivity	Impedance	Over Load	Hum, Noise
Tape 3-3/4	1.8 MV	100 K	130 MV	-55 dB
Tape 7-1/2	2.0 MV	100 K	130 MV	-55 dB
Phono high	2.0 MV	50 K	130 MV	-60 dB
Phono low	10 MV	50 K	650 MV	-60 dB
AM	2.0 μ V	-----	-----	-6 dB S/N
FM	1.5 μ V	-----	-----	-30 dB
FM	3.0 μ V	-----	-----	-60 dB
Auxiliary	100 MV	100 K	5 V	-75 dB
Tape in (front & rear)	100 MV	50 K	-----	-75 dB
Outputs	Watts RMS.	Impedance	Harm. Distortion%	Im. Distortion%
Single channel	100	4 OHM	0.1	0.2
Single channel	75	8 OHM	0.1	0.2
Both channels	160	4 OHM	0.2	0.3
Both channels	140	8 OHM	0.1	0.2
Single channel	10	4 & 8 OHM	0.1	0.2
Single channel	1	4 & 8 OHM	0.1	0.2
Performance	Hz	KHz	THD% $\pm$ 1dB	Remarks
Power bandwidth	15	30	0.5	-----
Frequency response	10	40	-----	-----
Square wave response	50	-----	5% tilt	no belly
Damping factor	4 OHM	-----	35 min.	-----
Damping factor	8 OHM	-----	50 min.	-----
Hum and Noise	Volume Control	Frequency	-dB max.	-dB min.
Residual	"O"	-----	-90	-80
Crosstalk aux.	max.	1 KHz	-70	-65
Crosstalk phone	max.	1 KHz	-65	-60
Filters	Frequency	Boost +dB	Cut -dB	Control Setting
High cut	6 KHz	-----	3	max.
Low cut	100 Hz	-----	3	max.
Loudness	100 Hz	5	-----	10 o'clock
Loudness	50 Hz	7	-----	10 o'clock
Treble	10 KHz	13	14	slope 1.5 KHz
Treble	10 KHz	10	10	slope 3.0 KHz
Treble	10 KHz	5	5	slope 6.0 KHz
Bass	100 Hz	5	5	slope 150 Hz
Bass	100 Hz	9	9	slope 300 Hz
Bass	100 Hz	13	13	slope 600 Hz

FM SECTION

Tuning range	87.5 to 108.5 MHz
IHF sensitivity	2 μ V
Image ratio	60 dB
IF. rejection	70 dB
Capture ratio	1 dB
Selectivity	50 dB
SN ratio	60 dB
Frequency response	30 Hz to 15 KHz
FM stereo separation	36 dB
Carrier leak	-40 dB
Distortion 100% mod.	mono 0.2%
	stereo 0.5%
FM antenna impedance	300 Ω /75 Ω

AM SECTION

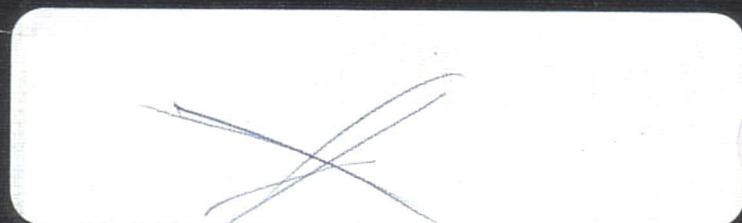
Tuning range	525 to 1605 KHz
IHF sensitivity	18 μ V
Image ratio	60 dB
IF. rejection	60 dB
SN ratio	50 dB
Frequency response	50 Hz to 4 KHz

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Archiv Michael Otto*

We know the true measurements of minimum performance standards of a quality amplifier must be of a very high level. However, these figures are not the only requirements. Despite every effort to make amplifier design a pure science one amplifier among many with similar absolute specifications can still have, relatively, far better sound quality. The reason: there are more comprehensive theories of amplifier design which account for such problems as harmonic inter-modulation, and notch distortion; stability, filters, and equalization as they relate to statements of power. Whatever the scientific theory, LUX conducts the most detailed listening test with engineers and musicians in different fields to ensure that LUX amplifiers sound best apart from what is considered good in brochures. To LUX, sound is not only a science but an art. Listen to the ultimate difference at your nearest audio shop.

LUX CORPORATION, JAPAN

Printed in Japan



ID STATE AM/FM STEREO RECEIVER

*© beim Hersteller
Archiv Michael-Otto*



ELECTRONIC TUNING

FM 88 90 92 94 96 98 100 102

TAPE MONITOR MODE MONO



SOURCE



STEREO

150 300 600
OFF



FREQUENCY/Hz

BASS

TURNOVER SELECTOR

LEFT → RIGHT



CUT BOOST

LEFT → RIGHT



CUT BOOST

TREBLE

6K 3
OFF



FREQUENCY