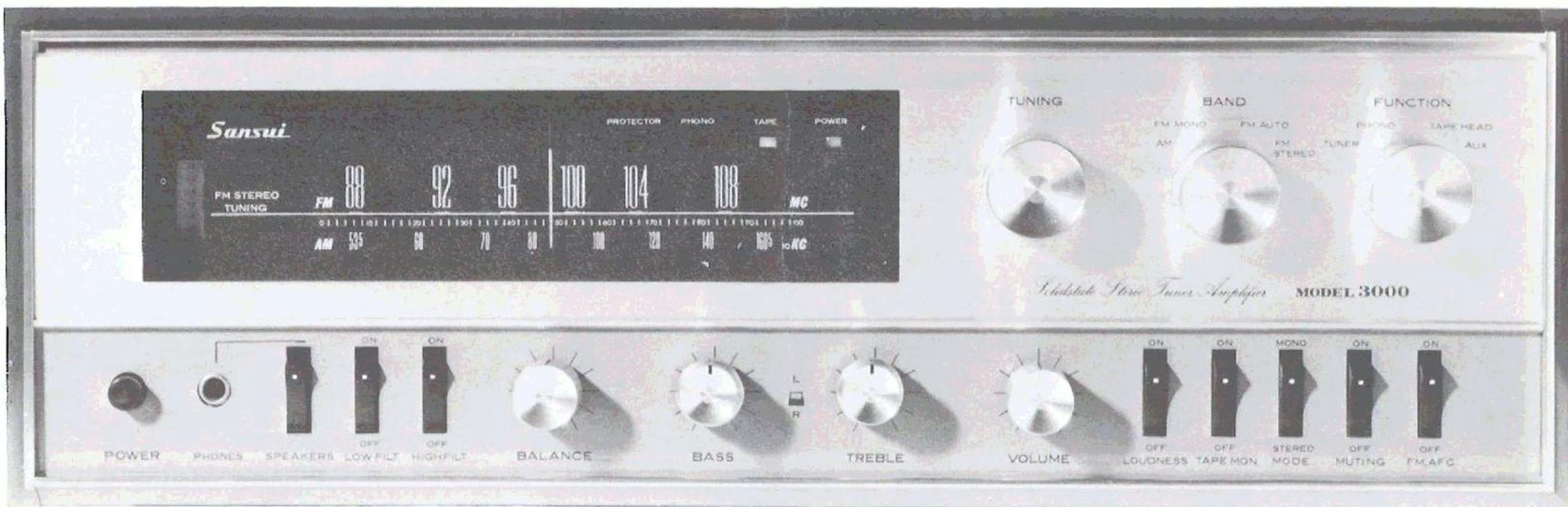


MODEL 3000



SOLID-STATE AM/FM MULTIPLEX STEREO TUNER AMPLIFIER Special component selection, sophisticated engineering and precision fabrication combine to put this all-transistorized model in a class by itself. Every single one of its 84 transistors and diodes has been painstakingly tested and retested for superior long life and current stability characteristics. High quality standards like these have enabled Sansui engineers to incorporate the latest SEPP OTL output circuit for an IHFM music power of 110 watts ± 1 dB with a harmonic distortion factor of less than 0.8%. They have also made possible a power bandwidth (IHFM) ranging from 20 to 20,000 cps with a damping factor (IHFM) of 15. Again, it is these standards that has enabled Sansui engineers to utilize special transistors and 7-gang variable capacitors—4 in the FM circuit alone—for an extremely high FM sensitivity of $1.8\mu\text{V} \pm 3\text{dB}$ (IHFM). The range, power, distortion factor and sensitivity form the heart of any tuner amplifier. They, more than anything else, determine how sound—in all its exciting dimensions—is captured, filtered, amplified, divided and delivered. We invite you to compare the heart of the Model 3000 with any other model on the market before you make it the heart of your home music center.

SANSUI



TRANSISTOR AMPLIFIER: The latest SEPP OTL output circuit, using a Sansui-developed driver transformer plus a Mesa type silicon transistor 2SD-45, provides IHFM music power of 110 watts ± 1 dB, RMS power of 45/45 watts ± 1 dB and stereo RMS power of 40 watts $\times 2 \pm 1$ dB. In addition, the power bandwidth (IHFM) is 20 to 20,000cps with a large damping factor (IHFM) of 15.

DRIVER TRANSFORMER: This driver transformer, newly developed by Sansui, has a special winding structure, assuring steady and reliable performance of the power circuit at any operating and ambient temperature.

LOW-FREQUENCY AMPLIFIER STAGE: Silicon epitaxial planar transistors with high thermal stability are used in the low-frequency amplifier stage not only to eliminate noise but also to widen the dynamic range.

PROTECTION CIRCUIT: All the power transistors are protected by the silicon controlled rectifier through the electric valve which functions in microseconds.

HIGH-SENSITIVITY TUNER: The high-frequency amplifier stage has selected transistors and 7-gang variable capacitors, 4 for FM, 3 for AM. The FM circuit consists of 1-stage RF and multiple tuned 5-stage IF circuit, giving high sensitivity of $1.8\mu V \pm 3$ dB (IHFM). In the AM

tuner section, a 1-stage RF and a built-in directional bar antenna enable you to pick up distant stations with a minimum of noise.

FM RECEPTION: The built-in muting switch automatically cuts off the IF section when the receiver input voltage is reduced below a rated value, and eliminates interstation noise for quiet channel selection. The FM multiplex circuit is provided with an SCA filter to clip off the interference of the SCA broadcast. The AFC circuit maintains stabilized FM reception. The image rejection is 50 dB and the cross modulation and unnecessary radiation are close to zero, eliminating interference with other receivers. The antenna input circuit selects the reception of distant or nearby stations.

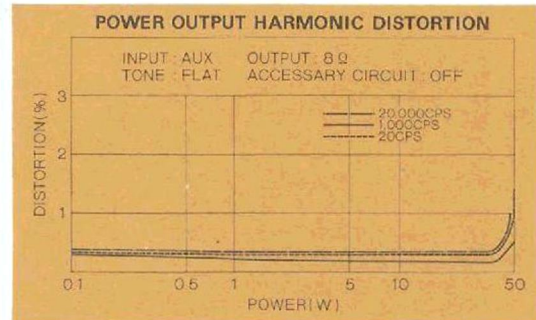
FM STEREO: The FM multiplex circuit incorporates the most advanced switching matrix system available, providing channel separation above 35 dB while keeping distortion below 1% at 1,000cps.

FM AUTOMATIC CIRCUIT: The Model 3000 is provided with a circuit to automatically switch FM reception from MONO to STEREO or from STEREO to MONO. For easier channel selection in a weak electric field, you can select on FM-MONO or FM-STEREO. The lamp of the tuning meter is orange for stereo and blue for mono.

OTHER CONVENIENCE FEATURES: • High

and low cut filters. • Separate bass and treble controls for each channel. • Output connections for speakers with (switch selected) impedances of 4 to 32 ohms. • Specially designed function switch to minimize noise. • Indicator lamp for the function switch. • Loudness control automatically compensates audible balance at low volumes by adding bass and treble. • Headphone jack. • DIN standard plug receptacle for tape recording. • High-sensitivity ferrite antenna for AM. • Tape monitor switch. • Center-channel output for 3-D stereo reproduction. • Interlock switch for safety reason.

PANEL DESIGN: The refined extrusion panel and functional arrangement of switches and controls enhance any room.



SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT (AT 8 Ω LOAD)
MUSIC POWER (IHFM) 110 watts total ± 1 dB
RMS POWER (LEFT/RIGHT) 45/45 watts ± 1 dB
RMS STEREO POWER (BOTH CHANNEL DRIVEN) 40 watts $\times 2 \pm 1$ dB
HARMONIC DISTORTION 0.8%
POWER BANDWIDTH (IHFM) 20~20,000cps
FREQUENCY RESPONSE 20~20,000cps ± 1.5 dB at normal listening level

CHANNEL SEPARATION

Phono 50dB
 AUX 50dB

HUM AND NOISE (IHFM)

Phono 70dB below rated output
 AUX 75dB below rated output

OUTPUT IMPEDANCE

4 & 8~32 Ω

DAMPING FACTOR (IHFM)

15

INPUT SENSITIVITY (FOR RATED OUTPUT)

Phono (Mag) 2.5mV
 Tape Head 1.8mV
 AUX 180mV
 Tape Monitor (Pin) 150mV
 Tape Monitor (Din) 150mV

CENTER-CHANNEL OUTPUT

5V at rated output

RECORDING OUTPUT

REC output (Pin) 150mV
 REC output (Din) 30mV

EQUALIZER

Phono (Mag) RIAA NF type
 Tape Head NAB NF type

CONTROLS AND SWITCHES

BASS CONTROL 50cps ± 12 dB ~ -13dB
TREBLE CONTROL 10,000cps ± 12 dB ~ -13dB
LOUDNESS CONTROL 50cps ± 10 dB, 10,000cps ± 5 dB
LOW FILTER 50cps ~ 10dB
HIGH FILTER 10,000cps ~ 10dB
MODE SWITCH Stereo, Mono
FUNCTION SWITCH Tuner, Phono, Tape Head, AUX

BAND SELECTOR SWITCH

AM, FM, FM AUTO, FM-STEREO

OTHER SPECIAL FEATURES

Direct tape monitor, DIN Connector, Headphone jack, Center-channel output for connection to third amplifier, Protection circuit.

FM SECTION

FREQUENCY RANGE 88~108MC
SENSITIVITY $1.4\mu V \pm 3$ dB (20dB quieting)
USABLE SENSITIVITY (IHFM) $1.8\mu V \pm 3$ dB
IMAGE REJECTION 50dB at 98MC
SELECTIVITY 45dB at 98MC
SIGNAL TO NOISE RATIO 50dB
HARMONIC DISTORTION 1.0%
FREQUENCY RESPONSE 30~20,000cps ± 2 dB

FM-MULTIPLEX SECTION

CHANNEL SEPARATION 35dB
HARMONIC DISTORTION 1.0%
FREQUENCY RESPONSE 40~15,000cps ± 2 dB

AM SECTION

FREQUENCY RANGE 535~1605KC
USABLE SENSITIVITY (IHFM) $15\mu V$ at 1MC
IMAGE REJECTION 50dB at 1MC
SELECTIVITY 20dB at 1MC

OTHER SPECIAL FEATURES

Muting, Meter tuning, FM stereo indicator, Heavy fly-wheel tuning, Automatic Frequency Control, AM Ferrite bar antenna, Stereo auto, Audio (Phono, Tape) Indicator, Power indicator, Protection indicator.

TRANSISTORS AND DIODES

TR: 2SA525 $\times 3$ 2SA234 $\times 5$ 2SA101 $\times 2$
 2SA102 $\times 2$ 2SA49 $\times 2$ 2SB54 $\times 2$
 2SB324 $\times 2$ 2SC292 $\times 6$ 2SC458 $\times 5$
 2SC536 $\times 9$ 2SC693 $\times 6$ 2SC650 $\times 2$
 2SC649 $\times 2$ 2SD45 (2SC246) $\times 4$

Di: OA91 $\times 8$ OA79 $\times 4$ SM150-01 $\times 3$ SW0.5a $\times 7$
 SW-1a $\times 8$ D-22A $\times 1$
 1S352M $\times 1$, V-312B $\times 1$

POWER REQUIREMENTS

POWER VOLTAGE 100, 117, 220, 240 Volts, 50 and 60cps

POWER CONSUMPTION 70VA (No signal)
 230VA (Max. Power)

DIMENSIONS

WIDTH 18 3/10"
HEIGHT (Excluding rubber stands) 6 4/5"
DEPTH (Excluding Knobs) 15"
WEIGHT 34.4 lbs

Printed in Japan (96003K)

Sansui

SANSUI**1967-68****3000****RECEIVER**

Baß- und Höhenfilter, separate Baß und Höhenregler für jeden Kanal. Impedanzschalter für Lautsprecher, Leuchtanzeigen für Eingangswahlschalter, gehörrichtige Lautstärke schaltbar, Kopfhörerausgang, 5-polige DIN-Buchse für deutsche Tonbandgeräte, eingebaute Ferritantenne, Tape-Monitor-Schalter, Zentralkanalausgang.

TECHNISCHE DATEN

Hersteller: SANSUI ELECTRIC COMPANY, TOKIO, JAPAN

Empfänger, Vorverstärker und Kraftverstärker integriert

Verstärker Bestückung: 53 Siliziumtransistoren insgesamt

Gleichrichter 40 Siliziumdioden insgesamt

Eingänge: Phono mag.: 2.5 mV, Reserve (Aux): 180 mV,

Bandwiedergabe: 150 mV, Monitor 150 mV, Tape Head: 1.8 mV

Phonoentzerrung: RIAA

Dauertonleistung: 2 x 40 W

Musikleistung: 2 x 55 W

Klirrgrad bei 1 kHz, Nennleistung und Aussteuerung beider Kanäle: 0.8 %

Intermodulation 250 Hz/8000 Hz 4/1 bei Nennleistung: 0,8 %

Frequenzgang über alles: 20-20.000 Hz $\pm$ 1,5 dB

Fremdspannungsabstand bez. auf Vollaussteuerung und vollaufgedr. Lautstärkeregler:

niederpegelige Eingänge: > 70 dB, hochpegelige Eingänge: > 75 dB

Ausgänge: Lautsprecher: 4 bis 32 Ohm

Kopfhörer: niederohmig

Balance (Regelumfang): von 0 bis Vollaussteuerung pro Kanal

Klangregler: (Regelumfang)

Bässe: $\pm$ 13 dB bei 50 Hz

Höhen: $\pm$ 12 dB bei 10 kHz

Tuner Empfangsbereiche: UKW 88-108 MHz/MW 535-1.605 kHz

Stereoempfangsbereit: ja

Empfindlichkeit für 30 dB Signal-Rauschabstand: UKW 1.8 μ V

Klirrgrad bei 1 kHz und $\pm$ 40 kHz Hub: 1 %

Übersprechdämpfung bei 1 kHz und $\pm$ 40 kHz Hub: 35 dB

Fremdspannungsabstand bei $\pm$ 40 kHz Hub: 50 dB

Bestückung (Tuner): s. Verstärker

Abmessungen: 465x150x380 (BxHxT in mm)

Gewicht: 15 kg

Unverbindlicher Richtpreis: 1.745.- DM