

SANSUI 130W MODEL 3000A



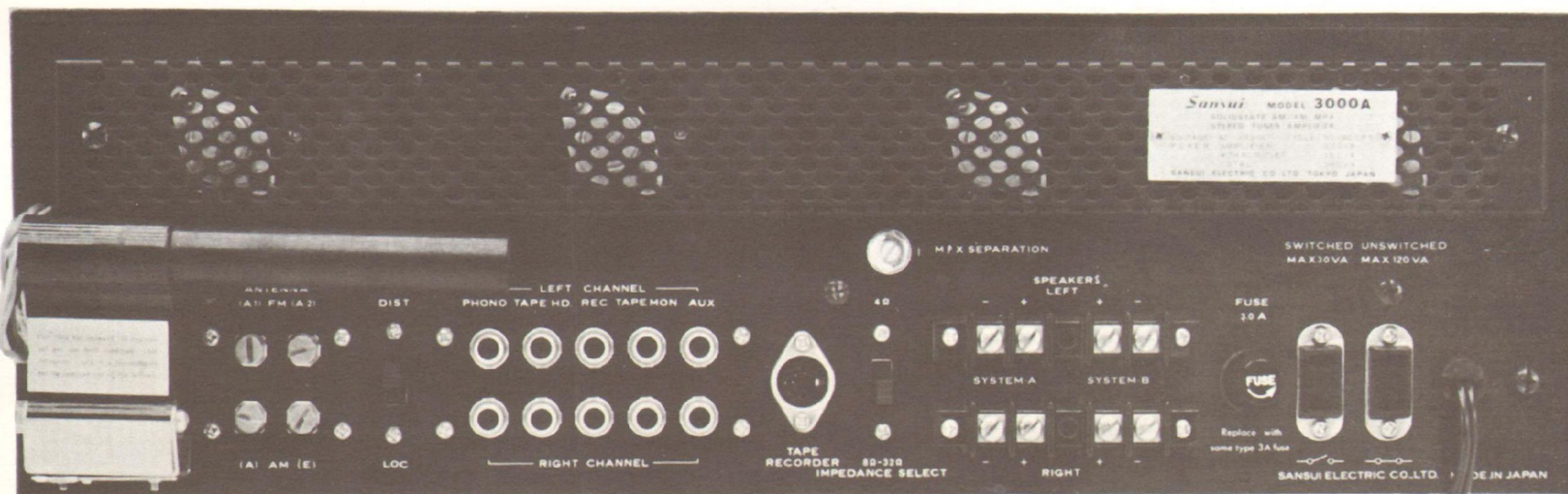
SOLID STATE AM/FM MULTIPLEX STEREO TUNER AMPLIFIER Model 3000A is strictly for the stereo enthusiast who demands the very best from his stereo equipment, because only the finest in components, engineering and craftsmanship have been used in its fabrication. Through the imaginative use of no less than 99 specially selected transistors and diodes, a Sansui-developed driver transformer and a number of advanced circuits including the latest SEPP OTL output circuit, Model 3000A boasts a total power output of 130 watts, a power bandwidth from 20 to 40,000 Hz, and a total harmonic distortion factor of less than 0.8%—performance figures that put it in a class by itself.

In addition to its brilliant performance capabilities, Model 3000A incorporates every advancement made to date in audio engineering: a protection circuit that functions in microseconds, FM Multiplex featuring the most efficient switching matrix system available, automatic indicator lamps, and an A-B speaker system switch to name only a few.

Model 3000A, a great stereo receiver from one of the world's great stereo makers.

Walnut case optional.

SANSUI



TRANSISTOR AMPLIFIER: The latest SEPP OTL output circuit, using a Sansui-developed driver transformer plus a Mesa type silicon transistor 2SD-45, provides IHF music power of 130 watts ± 1 dB, RMS power of 48/48 watts ± 1 dB and stereo RMS power of 45 watts $\times 2 \pm 1$ dB. In addition, the power bandwidth (IHF) is 20 to 40,000 Hz with a large damping factor (IHF) of more than 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 / or ambient temperature.

AUDIO AMPLIFIER STAGE: Silicon epitaxial planar transistors with high thermal stability are used in the low-frequency amplifier stage to eliminate noise and to widen the dynamic range.

PROTECTION CIRCUIT: All power transistors are protected by the silicon controlled rectifier through an 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 a 1-stage RF and a multiple tuned 5-stage IF circuit, giving a high sensitivity of $1.8\mu\text{V} \pm 3$ dB (IHF). In the AM tuner section, a 1-stage RF and a built-in directional bar antenna enable distant stations to be picked up with a minimum of noise.

FM RECEPTION: A 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 better than 65 dB, while 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 1,000 Hz.

CONTROLS AND SWITCHES:

BASS control: from +12 dB to -13 dB at 50 Hz
TREBLE control: from +12 dB to -13 dB at 10,000 Hz
LOUDNESS control: +8 dB at 50 Hz, +5 dB at 10,000 Hz (*)

LOW FILTER: -10 dB at 50 Hz (Volume control at -30 dB)
HIGH FILTER: -10 dB at 10,000 Hz

MODE switch: STEREO, MONO
SELECTOR switch: TUNER, PHONO, TAPE HEAD, AUX
BAND switch: AM, FM MONO, FM AUTO, FM STEREO

SPEAKER switch: A, B, A+B, off

OTHER SPECIAL FEATURES:

Direct Tape Monitor, DIN Connector, Headphone jack, Speaker Selector switch
Protection circuit

TUNER SECTION:

FM:
FREQUENCY RANGE: from 88 to 108 MHz
SENSITIVITY: $1.4\mu\text{V} \pm 3$ dB (20 dB quieting)
 $1.8\mu\text{V} \pm 3$ dB (IHF)

HARMONIC DISTORTION: less than 0.8%

FREQUENCY RESPONSE: from 30

to 20,000 Hz ± 2 dB

SIGNAL TO NOISE RATIO: better than 65 dB

SELECTIVITY: better than 50 dB at 98 MHz

CAPTURE RATIO: 2.7 dB

IMAGE FREQUENCY REJECTION: better than 65 dB at 98 MHz

FM AUTOMATIC CIRCUIT: Model 3000A is provided with an FM AUTO circuit to automatically switch FM reception from Mono to Stereo or from Stereo to Mono. The same switching is possible manually by means of the BAND switch. The lamp of the tuning meter is orange for Stereo, blue for Mono.

OTHER 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 selector switch to minimize noise. ● Indicator lamp for the selector 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. ● System A-B switch ● Interlock switch for safety.

PANEL DESIGN: Refined extrusion panel and functional arrangement of switches and controls.

● Walnut case optional.

IF FREQUENCY REJECTION:

better than 90 dB at 98 MHz

FM STEREO SEPARATION: better than 35 dB

AM:

FREQUENCY RANGE: from 535 to 1,605 KHz

SENSITIVITY (IHF): $15\mu\text{V} \pm 3$ dB at 1 MHz

IMAGE FREQUENCY REJECTION: better than 50 dB at 1 MHz

IF FREQUENCY REJECTION: better than 100 dB at 1 MHz

SELECTIVITY: better than 20 dB at 1 MHz

OTHER SPECIAL FEATURES:

Muting, Meter tuning, FM Stereo indicator, Heavy fly-wheel tuning, AM Ferrite bar antenna, Stereo auto, Audio (Phono, Tape) indicator, Power indicator, Protection indicator

TRANSISTORS AND DIODES:

TRANSISTORS: 53

DIODES: 46

POWER REQUIREMENTS:

POWER VOLTAGE: 100, 117, 220, 240 Volts,

50 or 60 Hz

POWER CONSUMPTION: 70 VA (no signal)

230 VA (max. power)

DIMENSIONS (excluding knobs, rubber stands and

bar antenna):

WIDTH: 18 1/2"

HEIGHT: 6 3/4"

DEPTH: 15"

WEIGHT: 34.4 lbs

AMPLIFIER SECTION:

POWER OUTPUT:

MUSIC POWER (IHF): 130 Watts ± 1 dB at 8 ohms

CONTINUOUS POWER (each chan.):

48 W/48 W ± 1 dB at 8 ohms

HARMONIC DISTORTION: less than 0.8% at rated

output

POWER BANDWIDTH (IHF): from 20 to 40,000Hz

at 8 ohms

FREQUENCY RESPONSE (at normal listening level):

Power Amplifier Section: from 10 to 50,000 Hz ± 1.5 dB

Aux: from 15 to 30,000 Hz ± 1.5 dB

INPUT SENSITIVITY (for rated output):

Phono: 2.5 mV

Tape Head: 1.8 mV

Aux: 180 mV

Tape Monitor (PIN): 150 mV

Tape Monitor (DIN): 150 mV

RECORDING OUTPUT:

REC OUT (PIN): 150 mV

REC OUT (DIN): 30 mV

HUM AND NOISE (IHF):

Phono: 70 dB below rated output

Aux: 75 dB below rated output

CHANNEL SEPARATION (at rated output)

Phono: better than 50 dB

Aux: better than 50 dB

OUTPUT IMPEDANCE: 4 and 8-32 ohms

DAMPING FACTOR (IHF): Greater than 15 at 8 ohms

EQUALIZER:

Phono: RIAA, NF type

Tape Head: NAB, NF Type

Sansui

3000A

Mittelwellen/UKW-
Multiplex-Empfänger/Verstärker
"Solid State" 130 Watt

Kein anderer Empfänger/Verstärker in der 130 Watt-Klasse bietet mehr an Präzision und Leistung wie dieser bestechende "Solid State". Mit einem Verzerrungsfaktor, der niemals 0.8% auf allen Tonbereichen übersteigt, und einem großen Frequenzbereich von 20—40,000 Hz gehört der 3000A zu den besten Stereo-Bausteinen, die auf dem Markt sind. Einige seiner besonderen Eigenschaften sind das hochentwickelte moderne MATRIX-Stereo-Schalt-System, ein Stereo-Trennwert von größer als 35db, ein Sicherungskreis, der in Mikro-Sekunden funktioniert, und ein A-B Lautsprecher-Schalter zur Benutzung von 1-2 Lautsprecheranlagen. Zur Bedienungskontrolle: Stereo-, Sicherungs-, Bandeneinstellungs- und Betriebsanzeigeleuchten. Weitere Merkmale sind Höhen-Tiefen-Filter, für jeden Kanal getrennte Bass- und Höhen-Regler, Balance-Regler, Betriebsarten-Wahlschalter, Tonband-Monitor und Lautstärkenkontrolle sowie eine ansprechende Vorderseite.

TECHNISCHE DATEN:

Verstärkerteil

Musikleistung (IHF): 130 Watt $\pm 1\text{db}$ bei 8Ω

Dauerleistung: 48/48 Watt $\pm 1\text{db}$ bei 8Ω
Verzerrungswert: weniger als 0.8% im Verhältnis zur Ausgangsleistung
Frequenzbereich (IHF): 20—40,000 Hz bei 8Ω
Eingänge:
Phono: 2.5 mV
Tonband: 1.8 mV
Zusatzgeräte: 180 mV
Tape-Monitor (Einzelbuchsen): 150 mV
Tape-Monitor (DIN): 150 mV
Geräuschwerte (IHF):
Phono: 70db
Zusatzgeräte: 75db
Dämpfungsfaktor (IHF): 15 bei 8Ω

UKW-Empfängerteil

Bandbreite: 88—108 MHz
Empfindlichkeit: $1.4\mu\text{V} \pm 3\text{db}$ (20db Unterdrückung)
 $1.8\mu\text{V} \pm 3\text{db}$ (IHF)
Trennschärfe: über 50db bei 98 MHz
Einstellungsgenauigkeit: 2.7db (IHF)
UKW-Stereo Trennung: größer als 35db

Mittelwellen-Empfängerteil

Bandbreite: 535—1,605 KHz
Empfindlichkeit (IHF): $15\mu\text{V} \pm 3\text{db}$
Transistoren: 53
Dioden: 46
Netzspannungen: 100/117/220/240 Volt, 50 oder 60Hz
Abmessungen: Breite 480 mm Höhe 154 mm
Tiefe 381 mm
Gewicht: ca. 15.7 kg

