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NOV 21 1973

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# SANSUI 350A



**AM/FM MULTIPLEX STEREO TUNER AMPLIFIER** Now, as increasing numbers of knowledgeable stereo fans are reappraising their audio needs in more realistic terms, Sansui proudly introduces the 54 watt 350A AM/FM Multiplex Stereo Tuner Amplifier. A quality receiver with virtually every refinement to be found in higher priced units, it has all the power most music lovers will ever need. Incorporating an FET-equipped FM frontend and 4-stage IF amplifier with 3-stage limiter circuit, the 350A makes the move to the head of the class in the medium power field for sensitivity, stability and low noise and distortion. Its many attractive features include such big receiver assets as wide dial FM linear scale, all-

electronic FM Stereo/Mono switching, complete silicon transistor circuitry, and the capability of handling up to two sets of speaker systems simultaneously. Plus, the beautiful wood case is standard equipment, not an optional extra. With its wide 30 to 30,000Hz power bandwidth, and its ability to reduce distortion to an insignificant 1% or less, the 350A is so advanced and so complete that it's just bound to make a lot more sense to a lot more people. People who now find themselves in a stereo "overkill" situation with prodigiously powered receivers they don't really need. The Sansui 350A. An ideal medium-powered receiver at a very realistic price.

*Sansui*

**FET-EQUIPPED FM FRONTEND:** The highly efficient frontend of the 350A incorporates a frequency-linear 3-gang variable capacitor and a low-noise field effect transistor (FET) for the RF stage. The result is not only an improved capability to reject interfering inputs, but a noticeably enhanced signal-to-noise ratio and, overall, high performance and stability. In addition, an automatic gain control (AGC) circuit ensures exceptional selectivity in strong signal areas close to broadcasting stations.

**4-STAGE IF SECTION:** The adoption of a 4-stage IF amplifier and a 3-stage limiter circuit results in an exceptional limiter effect. Featuring abundant amplification, high stability, low noise and distortion, they ensure quality reception in noise-filled and remote weak signal areas alike. The unit's better than 32dB selectivity figure evidences its superior capability to pinpoint stations in the face of competing input signals.

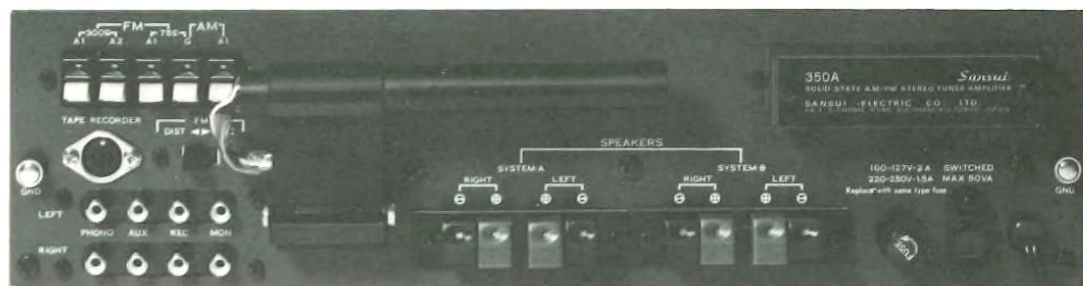
**NEW NOISE CANCELER:** This is not the conventional noise canceler of the high-cut system. Instead, it cuts out only the noise component at the high end of the audio frequency range. With the help of the 3-stage limiter, it guarantees noise-free reception.

**WIDE DIAL FM LINEAR SCALE:** The 350A is equipped with a precision 3-gang variable capacitor which makes possible a frequency-linear FM band scale for greater stability. The wide dial design makes for pinpoint tuning with unprecedented accuracy.

**ADVANCED FM MULTIPLEX CIRCUIT:** Featuring a highly stable, reliable switching matrix, the FM Multiplex circuit of the 350A affords channel separation in excess of 30dB at 1,000Hz and keeps total harmonic distortion below 1%.

**FM STEREO/MONO SWITCHING:** With the Selector Control set at "FM AUTO," an electronic switch automatically adjusts for stereo reception. And, of course, a Stereo Indicator alerts the operator to the change. In cases of feeble stereo signal strength, the tuner automatically reverts to monophonic reception, avoiding sub-standard stereo.

**300Ω AND 75Ω ANTENNA INPUTS:** The 350A is provided with two FM antenna input circuits—one with an input impedance of 300Ω balanced and the other 75Ω unbalanced, to



eliminate the possibility of mismatching impedances and ensure effective reception.

**FM LOCAL/DISTANT SWITCH:** Equipped with an FM Local/Distant Switch, the 350A provides distortion-free reception of FM broadcasts even in strong signal areas.

**SENSITIVE FERRITE BAR ANTENNA:** For the AM band, the 350A comes complete with a highly sensitive ferrite bar antenna that ensures quality reception. And an external antenna can also be connected.

**ALL SILICON TRANSISTORS:** Only quality silicon transistors are employed throughout the 350A, from the audio circuit to the tuner section. This makes possible an exceptional signal-to-noise and low distortion at a low output level, as well as a wide dynamic range at any output level. This means well-recorded programs are reproduced with fine linearity.

**POWERFUL 54 WATT OUTPUT STAGE:** Utilizing select silicon transistors for the output stage, the power amplifier section of the 350A adopts a semi-complementary Darlington circuit system and delivers a music power output of 54 watts at 4Ω and 46 watts at 8Ω. Its continuous power output is 22 watts per channel at 4Ω and 20 watts per channel at 8Ω. Distortion is a mere 1% or less, and the power bandwidth a wide 30 to 30,000Hz.

**CONSTANT-VOLTAGE POWER SUPPLIES:** Constant-voltage power supply circuits are provided for the FM and AM tuner sections and the preamplifier section. This prevents possible drifting, assuring stable reception of all stations. It also substantially cuts down pre-amplifier distortion, enabling hi-fi reproduction of all programs.

**ALL-SILICON PREAMPLIFIER:** The preamplifier section makes use of carefully selected,

extremely low-noise silicon transistors. The Selector Control, input terminals and the pre-amplifier are extremely closely spaced to obtain a superior signal-to-noise ratio, exceptional high-frequency response, low distortion and high stability.

**ONE-TOUCH SHORT-PROOF TERMINALS:** Both the speaker and antenna terminals adopt Sansui's unique one-touch design that allows connections to be made simply by pushing a stopper knob, inserting the wire and releasing the knob. They are absolutely short-proof.

**HANDLES 2 SETS OF SPEAKER SYSTEMS:** Up to two sets of speaker systems can be connected to the 350A, and can be played either independently or simultaneously, controlled by a convenient Speaker Selector Switch.

**SMOKED ACRYL AND BLACK DIAL:** With its two-tone front panel—a silver control panel section and a smoked black acrylic dial panel—the 350A is of very sophisticated appearance.

**COMPLETE WITH WOODEN CABINET:** Standard equipment with the 350A is its beautifully-crafted wooden cabinet, designed to blend in with the finest furniture.

**OTHER CONVENIENT FEATURES:** A loudness Control that compensates for the apparent loss of the low and high notes at low listening levels; a DIN Connector to simplify the connection of a tape recorder; a Tape Monitor Circuit to permit monitoring recorded sound as it is recorded on a 3-head tape recorder; a headphone jack for private listening; a grounding terminal that allows grounding any and all external noise, and a special device to minimize the pop noise produced when the Power Switch is turned on, avoiding any possible damage to the speakers.

## SPECIFICATIONS

### AUDIO SECTION

#### POWER OUTPUT

|                               |             |
|-------------------------------|-------------|
| MUSIC POWER (IHF)             | 54W (4Ω)    |
|                               | 46W (8Ω)    |
| CONTINUOUS POWER (each chan.) | 22/22W (4Ω) |
|                               | 20/20W (8Ω) |

#### HARMONIC DISTORTION

less than 1% at rated output

#### POWER BANDWIDTH (IHF) 30—30,000Hz

#### INTERMODULATION DISTORTION

(60Hz: 7,000Hz=4:1 SMPTE method)

less than 1% at rated output

#### FREQUENCY RESPONSE (at normal listening level)

AUX over all 30—30,000Hz ±1dB

#### CHANNEL SEPARATION (at rated output, 1,000Hz)

PHONO better than 50dB

AUX better than 50dB

#### HUM AND NOISE (IHF)

PHONO better than 65dB

AUX better than 70dB

#### INPUT SENSITIVITY (at rated output, 1,000Hz)

PHONO 2.2mV (50kΩ)

AUX 150mV (100kΩ)

TAPE MON (pin) 150mV (100kΩ)

TAPE RECORDER (DIN) 150mV (100kΩ)

#### RECORDING OUTPUT (at rated output, 1,000Hz)

TAPE REC (pin) 150mV

TAPE RECORDER (DIN) 30mV

#### LOAD IMPEDANCE

EQUALIZER PHONO RIAA NF type

DAMPING FACTOR 45 (8Ω)

#### TONE CONTROLS

BASS ±10dB at 50Hz

TREBLE ±10dB at 10,000Hz

LOUDNESS CONTROL +8dB at 50Hz, +3dB at 10,000Hz

(Volume Control at -30dB)

#### SWITCHES

MODE STEREO/MONO

TAPE MONITOR SOURCE/PLAY BACK

MPX NOISE CANCELER OFF/ON

SELECTOR PHONO/FM AUTO/AM/AUX

SPEAKER SELECTOR SYSTEM-A/SYSTEM-A+B

#### TUNER SECTION

##### FM:

TUNING RANGE 88—108MHz

SENSITIVITY (20dB quieting) 2.5μV

(IHF) 3μV

TOTAL HARMONIC DISTORTION less than 1%

SIGNAL TO NOISE RATIO better than 60dB

SELECTIVITY better than 32dB

CAPTURE RATIO (IHF) 3dB

#### IMAGE FREQUENCY REJECTION

better than 65dB

#### IF REJECTION

better than 70dB

#### SPURIOUS RESPONSE REJECTION

better than 70dB

#### STEREO SEPARATION

better than 30dB at 400Hz

#### SPURIOUS RADIATION

less than 34dB

#### ANTENNA INPUT IMPEDANCE

300Ω balanced/75Ω unbalanced

#### AM:

##### TUNING RANGE

535—1,605kHz

##### SENSITIVITY

350μV at 1,000kHz (bar antenna)

##### IMAGE FREQUENCY REJECTION

better than 65dB at 1,000kHz

##### IF REJECTION

better than 55dB at 1,000kHz

##### SELECTIVITY

better than 20dB

#### GENERAL

##### SWITCHES

FM ANTENNA SWITCH DISTANT/LOCAL

##### SEMICONDUCTORS

TRANSISTORS: 38 FET: 1 DIODES: 16

ZENER DIODE: 1

#### POWER REQUIREMENTS

POWER VOLTAGE 100/110/117/127/220/230/

240/250V, 50/60Hz

POWER CONSUMPTION 105VA (max. signal)

#### DIMENSIONS: 144mm(5<sup>7</sup>/<sub>16</sub>")H x 144mm(16<sup>3</sup>/<sub>16</sub>")W

x 305mm(12<sup>1</sup>/<sub>16</sub>")D

WEIGHT: 9.5 kg (20.9 lbs.)



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