

FET FRONTEND: The FM tuner section of the Sansui 300 combines an FM frontend consisting of an FET and 3-ganged variable capacitors with a 5-stage IF amplifier for superior sensitivity (2.5 μ V, 20dB quieting), separation, intermodulation and image rejection figures.

SILICON TRANSISTOR CIRCUITRY: All transistors used are of top quality silicon for more stability and longer life despite fluctuations in temperature. Those used in the preamplifier are selected low-noise types.

SEPP OTL OUTPUT STAGE: The 300 incorporates a sophisticated semicomplementary Darlington SEPP OTL output stage for a music power output of 36 watts.

FM STEREO SEPARATION: The FM Multiplex circuit used in the 300 incorporates the most sophisticated switching matrix system available, providing stereo separation above 30dB while keeping distortion below 1% at 1,000Hz.

AUTOMATIC FM STEREO/MONO SWITCHING: An FM Auto circuit switches FM reception automatically from mono to stereo or stereo to mono. It is also designed to sense the intensity of stereo signals and revert to mono if the reception is too weak for enjoyable stereo listening. It is linked to a stereo indicator lamp which lights up automatically whenever the stereo signal is being received.

NEW TYPE NOISE CANCELER: Unlike the conventional high-cut filter, the noise canceler used in the 300 eliminates noise during FM stereo reception without weakening the high frequency characteristics of the programs.

BUILT-IN FM ANTENNA: For more sensitive FM reception, the 300 features a built-in FM antenna and a switch that enables the operator



to select this antenna or an external FM antenna which is connected to either 300 or 75 ohm FM antenna terminals on the rear panel.

SENSITIVE FERRITE ANTENNA: A highly sensitive ferrite bar antenna is built-in for flawless AM reception. Located on the receiver's rear panel, it is movable to enable the best positioning.

ONE-TOUCH ANTENNA TERMINALS: The terminals provided for outdoor AM or FM antennas are of the new pushbutton design. One touch makes them ready for the antenna wires. Releasing the button secures the wires. No tools are necessary.

WIDE TUNING DIAL: The dial scale window of the 300 is made of attractive smoked acrylic and features a bright linear scale for the FM band. This, plus a large, easy-to-see tuning meter, make precision tuning easier than ever.

GROUND TERMINAL: This terminal permits the complete grounding of the chassis to eliminate the possibility of hum and improve the signal-to-noise ratio.

DOUBLE TRANSISTOR PROTECTION: The transistors used in the 300 are protected in two

important ways: they have ample reserve power in case of overloads and they are protected by quick-acting fuses.

FULL-SYSTEM INPUTS AND OUTPUTS: Capable of handling an entire audio system, the 300 is equipped with all the necessary input and output circuits for this purpose. These include PHONO, AUX, TAPE REC., TAPE MON., DIN connector and headphone jack circuits.

COMPLETE SOUND CONTROL: The 300 also is equipped with a full variety of accessory circuits, such as bass and treble tone controls, loudness switch, stereo/mono switch and balance control.

AC OUTLET: To handle an external audio component, the 300 has been provided with an unswitched 100VA AC outlet on its rear panel.

PLUG-IN DRIVER STAGE: The 300's driver stage has been designed as an independent plug-in unit for increased serviceability.

OPERATES ON 8 VOLTAGES: A plug-in type 8-position voltage adjuster enables the 300 to select the correct power supply voltage anywhere in the world, including areas where the power supply voltage fluctuates substantially.

SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT:

MUSIC POWER (IHF)	36W (at 4 Ω load)
	32W (at 8 Ω load)

CONTINUOUS POWER (each channel)

	16/16W (at 4 Ω load)
	14/14W (at 8 Ω load)

TOTAL HARMONIC DISTORTION:

less than 1% at rated output

POWER BANDWIDTH

(IHF): 30–25,000Hz (at 8 Ω load)

FREQUENCY RESPONSE (at normal listening level):

AUX OVERALL 25–30,000Hz $\pm$ 2dB

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

PHONO	better than 40dB
AUX	better than 45dB

HUM AND NOISE (IHF):

PHONO	better than 65dB
AUX	better than 70dB

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

PHONO	3mV (50k Ω)
AUX	180mV (100k Ω)
TAPE MON (PIN)	180mV (100k Ω)
TAPE RECORDER (DIN)	180mV (100k Ω)

RECORDING OUTPUT:

TAPE REC (PIN)	180mV
TAPE RECORDER (DIN)	30mV

LOAD IMPEDANCE:

4–16 Ω

DAMPING FACTOR:

20 (at 8 Ω load)

EQUALIZER:

PHONO RIAA, NF type

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TONE CONTROLS:

BASS	$\pm$ 10dB at 50Hz
TREBLE	$\pm$ 10dB at 10,000Hz

LOUDNESS CONTROL:

	+11dB at 50Hz,
	+3dB at 10,000Hz
	(Volume Control at –30dB)

SWITCHES:

SELECTOR	PHONO, FM AUTO, AM, AUX
TAPE MONITOR	OFF, ON
MODE	STEREO, MONO
MPX NOISE CANCELER	OFF, ON

OTHER SPECIAL FEATURES:

DIN Connector for Tape Recorder, Direct Tape Monitor, Headphone Jack

TUNER SECTION

FM:

TUNING RANGE 88–108MHz

SENSITIVITY (20dB quieting) 2.5 μ V
(IHF) 3 μ V

HARMONIC DISTORTION less than 1%

SIGNAL TO NOISE RATIO

better than 50dB

SELECTIVITY better than 35dB at 98MHz

CAPTURE RATIO (IHF) 3dB

IMAGE FREQUENCY REJECTION

better than 45dB at 98MHz

IF REJECTION better than 60dB at 98MHz

SPURIOUS RESPONSE REJECTION

better than 60dB at 98MHz

SPURIOUS RADIATION less than 34dB

ANTENNA INPUT IMPEDANCE

	300 Ω balanced,
	75 Ω unbalanced

FM STEREO SEPARATION

better than 30dB at 400Hz

AM:

TUNING RANGE 535–1,605kHz

SENSITIVITY 51dB/m at 1,000kHz
(bar antenna)

IMAGE FREQUENCY REJECTION

better than 55dB

at 1,000kHz

IF REJECTION

better than 45dB

SELECTIVITY

better than 20dB

OTHER SPECIAL FEATURES:

FM Linear Scale Dial, Signal Strength Meter, Flywheel Tuning, AM Ferrite Bar Antenna, MPX Noise Canceler

TRANSISTORS AND DIODES:

Transistors–36; FET–1; Varistors–2; Thermistor–1; Diodes–18; Zener Diode–1;

POWER REQUIREMENTS:

POWER VOLTAGE 100, 110, 117, 127, 220, 230, 240, 250V 50/60Hz
POWER CONSUMPTION 15 VA (Zero Signal), 100VA (Max. Signal)

DIMENSIONS:

4 $\frac{1}{4}$ "H x 15 $\frac{1}{2}$ "W x 11 $\frac{1}{4}$ "D

WEIGHT:

21 lbs.

SANSUI 300



AM/FM MULTIPLEX STEREO TUNER AMPLIFIER You are looking at the most practical solid state stereo receiver on the market today. In design, performance and ease of operation, the Sansui 300 is without peer in the 36 watt class. It offers a modern black face window panel with a wide, linear scale FM tuning dial that is as functional as it is attractive. It boasts a new FET frontend with 5-stage IF amplifier for top FM sensitivity and selectivity. A wide 30 to 25,000Hz power bandwidth (IHF) and a total harmonic distortion factor of less than 1% at rated output. A hum and noise figure of better than 65dB at the Phono input. And

many other performance figures you'd only expect to find on receivers costing twice as much. In operating ease, it features conveniently arranged controls, the latest one-touch antenna and speaker terminals, automatic stereo switching and is able to work off both 300 and 75 ohm antennas. But it is in the field of FM reception that the Sansui 300 really shines. A new type of noise canceler that eliminates noise without weakening FM program high frequency characteristics and a built-in FM antenna are "firsts" for this price range. All of these features combine to make the 300 the biggest value today in quality audio equipment.

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