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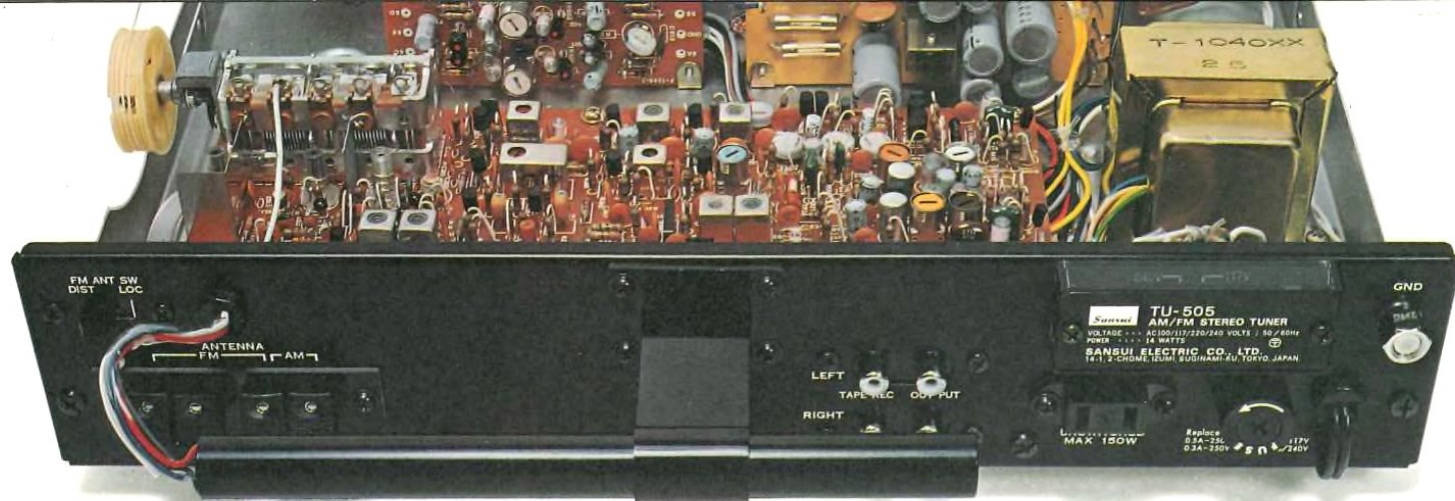
SANSUI TU505



SOLID STATE AM/FM STEREO TUNER The sensible price tag and compact dimensions of the TU-505 are but two of its virtues. Even more significant is the outstanding performance you can expect from this new stereo tuner, that is certainly one of the most versatile ever made in its price range. It employs a dual-gated MOS type FET and a number of other sophisticated features usually common only to very expensive top-of-the-line tuners, and because Sansui engineers have devoted so much of their design time to building in this quality you can expect the very finest of essential FM receiving capabilities from the TU-505. Its distortion factor, intermodulation distortion, and stereo separation do not deteriorate even in highly congested FM areas. Furthermore, its ability to reject spurious response, IF and image frequency is unparalleled for its size. And its AM tuner section is the equal of its FM section, for it is equipped with a 2-

resonator ceramic filter and extra large ferrite bar antenna for pinpoint, clear AM reception wherever it may be used. Simply, this tuner is extremely functional, and it is complemented by an array of functional features. Among these are an AM/FM noise suppressor switch, an FM muting switch and FM stereo indicator, along with two pairs of outputs. In appearance, the TU-505 has been designed to match the Sansui AU-505 and AU-101 stereo integrated amplifiers, so you may choose any of these components to work as a team. The elegant satin-black front panel with luminous wide dial will be a highlight of your music listening room. And since the external dimensions of the TU-505 match those of the other two Sansui amplifiers, you can stack them vertically or place them side-by-side. It all adds up to quality performance at a modest investment. Which is what, by now, you've certainly come to expect from Sansui.

Sansui



SENSITIVE FET FM FRONTEND: Key to the performance of the TU-505 is its vital FM frontend. This section makes use of an expensive dual-gated MOS type FET that has been carefully chosen for its extremely low noise factor, along with a precision frequency-linear 3-gang variable capacitor in its RF amplifier stage. Its oscillator circuit is elaborately constructed of three low-noise silicon transistors.

FM IF AMPLIFIER WITH CERAMIC FILTERS AND AN IC: Superior IF amplifier characteristics are obtained from a pair of 2-resonator ceramic filters and an IC that constitute the heart of the TU-505, its FM IF amplifier. The performance of this component is further enhanced by the use of a discriminator transformer of outstanding linearity (1.1MHz peak-to-peak). The results of this circuitry are reflected by the working selectivity of 50 dB, signal-to-noise ratio of 65 dB and a capture ratio of 2.5 dB or less. But other, unquoted figures such

as distortion factor, separation and phase characteristics during FM stereo reception will speak for themselves in a very positive way the moment you tune the TU-505 to your favorite FM stereo broadcast.

FM MPX CIRCUIT: The matching diodes chosen with extra care for use in the switching circuit enhance the stereo separation while reducing the carrier leakage to ensure FM stereo separation of exceptional quality.

WIDE DIAL WITH FM LINEAR SCALE: Sansui has adapted the precision frequency-linear variable capacitor for use in the TU-505 to make it possible to use a linear dial scale for FM. The dial adopts a distinctive blackout design, and is made of smoked acryl. The pointer is of the easy-to-read self-lighting type.

FM MUTING SWITCH: For silent FM tuning, the FM muting switch of this tuner always subdues inter-station noise common to the FM band, unless cancelled.

FM INPUT SENSITIVITY SWITCH: The input sensitivity of the FM antenna circuit is adjustable between DISTANT and LOCAL. Where broadcasting stations are very close, setting the switch to LOCAL will help reduce sensitivity and prevent distortion that results from excessively strong signals.

300Ω AND 75Ω FM ANTENNA TERMINALS: In addition to the conventional 300-ohm balanced antenna terminals for feeder cable, 75-ohm unbalanced ones are also provided to connect coaxial cable.

CERAMIC FILTER AM IF: This section is provided with a new Jaumann-type filter,

which combines with a newly developed wide-band, highly selective coil and 2-resonator ceramic filter, to ensure strikingly high sensitivity and selectivity in AM reception.

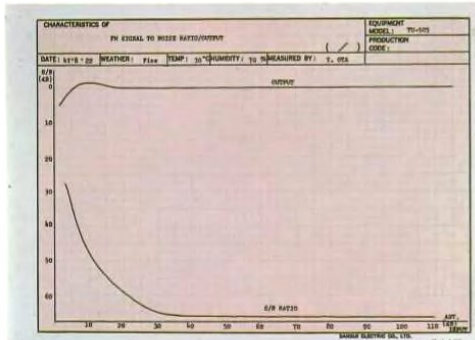
SENSITIVE LARGE AM BAR ANTENNA: The sensitivity of the AM tuner section is increased even more by the large ferrite bar antenna and its effective spaced coil winding.

AM/FM NOISE SUPPRESSOR SWITCH: This is a newly-developed double-function switch. During AM reception, you turn this switch on to activate the built-in whistle filter circuit and shut out beat noise above 7kHz. During FM stereo reception, tuning this switch will activate the built-in multiplex noise canceler and cancel the disturbing high-frequency noise in FM stereo material without impairing its frequency properties.

STABILIZED POWER SUPPLY: Power to the TU-505 is supplied by a stabilized power supply with ripple filter, just as in much more elaborate and expensive tuners.

TWO PAIRS OF OUTPUTS: For recording convenience, the TU-505 offers both regular amplifier outputs and tape recording outputs.

COMPATIBLE DESIGN: The elegant TU-505 is at home with any amplifier, but looks best when paired with the Sansui AU-505 or AU-101 stereo integrated amplifier. All three components have identical dimensions, black panel and side panel design.



SPECIFICATIONS

FM SECTION

TUNING RANGE	88 to 108MHz
SENSITIVITY (IHF)	2.5μV
TOTAL HARMONIC DISTORTION	
MONO	less than 0.6%
STEREO	less than 0.8%
SIGNAL TO NOISE RATIO	better than 65dB
SELECTIVITY	better than 50dB
CAPTURE RATIO (IHF)	less than 2.5dB
IMAGE FREQUENCY REJECTION	better than 50dB at 98MHz
IF REJECTION	better than 60dB
SPURIOUS RESPONSE REJECTION	better than 60dB
SPURIOUS RADIATION	less than 34dB
STEREO SEPARATION	better than 35dB at 400Hz

FREQUENCY RESPONSE	30 to 15,000Hz +1dB, -2.5dB
ANTENNA INPUT IMPEDANCE	300Ω balanced, 75Ω unbalanced 20dB
ANTENNA ATT.	
AM SECTION	
TUNING RANGE	535 to 1605kHz
SENSITIVITY (Bar Antenna)	50dB/m
SELECTIVITY	better than 25dB
IMAGE FREQUENCY REJECTION	better than 80dB/m at 1,000kHz
IF REJECTION	better than 80dB/m
OUTPUT LEVEL	1.0V
TAPE REC	0.4V

CONTROLS AND SWITCHES

SELECTOR	AM, FM AUTO, FM MONO
FM MUTING	ON, OFF
NOISE SUPPRESSOR	OUT, IN
FM ANTENNA SWITCH	LOCAL, DISTANT
SEMICONDUCTORS	TRANSISTORS: 27 FET: 1 DIODES: 19 IC: 1
POWER REQUIREMENTS	
POWER VOLTAGE	100, 117, 220, 240V 50/60Hz
POWER CONSUMPTION	Max. 16VA Rated 14 Watts
DIMENSIONS	407mm (16 1/8") W x 115mm (4 5/8") H x 278mm (11") D
WEIGHT	5.5kg (12.1 lbs.)

Design and specifications subject to change without notice for improvements.



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