

Sansui
60W

600L



SOLID STATE 7-BAND AM/LW/SW/FM MULTIPLEX STEREO TUNER AMPLIFIER The Sansui 600L is quite unlike any other multi-band receiver you've ever seen or heard. It literally has everything any receiver could have to get the best out of each of the seven bands it was designed to receive. Among them: an FET frontend and 5-stage IF amplifier for flawless FM reception, improved selectivity in the MW, LW and SW bands through the use of a special mechanical filters in their IF stage, and a unique radio compass system that rotates a sensitive antenna to pick up even the feeblest signal on both MW and LW bands. In addition, the 600L offers fine-tuning of all bands, pushbutton band selection, the latest vertical sliding controls and functional black window styling. Capable of operating on no fewer than eight different voltages and off both 75 and 300 ohm antennas, this 60 watt solid state is at home anywhere. We invite you to check out its many new features and compare them with those of any other multi-band receiver in the medium power range. We think you'll find enough to convince you that the 600L would really be at home in your home.

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WIDE BAND RECEPTION: The 600L is at home pulling in MW/LW/FM bands, plus four SW bands ranging from 1.8MHz to 26.5MHz. All bands are conveniently selected by one-touch pushbuttons.

FET FRONTEND: The use of an FET for the RF stage of the FM frontend ensures good performance either at very small signal amplitudes or excessively large amplitudes. In addition, silicon transistors are used for the oscillator and mixer circuits, resulting in very stable performance.

TOP FM STABILITY AND SELECTIVITY: The 600L's 5-stage FM IF amplifier utilizes silicon transistors with a superior saturation characteristic, taking advantage of their self-limiting action for high stability; AGC is applied to the first stage transistor, so that the amplifier as a whole has a good selectivity characteristic at excessively large amplitudes.

FM MUTING: A special FM muting switch built-in to the 600L eliminates unpleasant interstation tuning noise on the FM band.

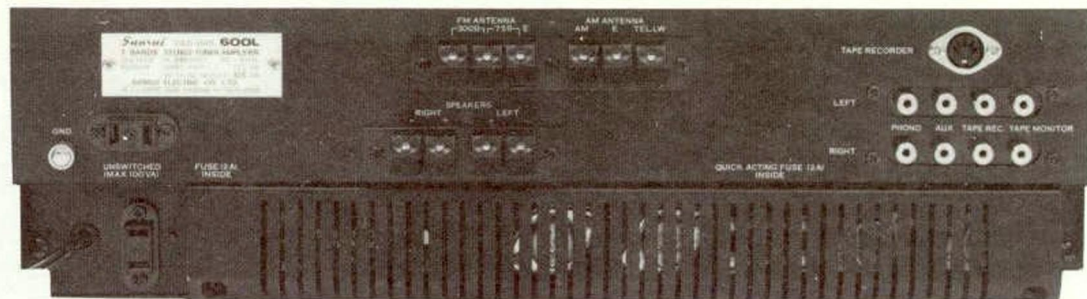
FM STEREO FEATURES: The unit's stereo indicator circuit incorporates a sub-circuit to prevent it from operating by error. This enables it to catch FM multiplex stereo signals with greater precision than ever.

SEPARATE TUNING METER AMPLIFIER: A separate amplifying circuit has been provided for the tuning meter to offer a more precise indication as to the tuning condition of the receiver's tuner.

MW/LW RADIO COMPASS SYSTEM: A radio compass (rotary bar antenna) system is adopted for the MW and LW bands to direct the antenna in the direction of incoming signals and effectively catch the feeblest signals.

UNSURPASSED MW/LW/SW SELECTIVITY: The IF amplifier for the MW, LW and SW bands employs a mechanical filter for unsurpassed selectivity.

SENSITIVE SW RECEPTION: The 600L utilizes a special antenna coil for the SW bands



a spiral coil made of magnetic plated wire—featuring a high Q for high sensitivity reception.

SPECIAL TUNING MECHANISM: The 600L is equipped with a fine tuning mechanism to enable precision tuning even on the SW bands which encompass a narrow frequency range.

ALL-SILICON PREAMPLIFIER: The preamplifier is a direct-coupled two-stage circuit constructed of low-noise silicon transistors, and offers sufficient gain and a low noise characteristic.

EFFICIENT NOISE FILTER: An efficient noise filter with a cut-off characteristic of 12dB/oct. enables the 600L to screen out noise from incoming signals for clear, transparent sound reproduction.

CONVENIENT SLIDING CONTROLS: Volume, radio compass, balance and tone controls are of a vertical slide type, and are also very easy to use.

SEPP OTL CIRCUITRY: The power amplifier has a semi-complementary SEPP OTL output circuit with power transistors having ample reserve of power over and above the rated power output; it features stable performance, a high output and low distortion.

FUNCTIONAL BLACK WINDOW STYLING: Function selector switches are electrically interconnected with corresponding function indicators to let the operator see the function in use at a mere glance. The entire dial turns black when power is turned off.

ONE-TOUCH OUTPUT TERMINALS: Both antenna and speaker output terminals are of the easy-to-use, one-touch knob type. They make short circuits a thing of the past.

HEADPHONE JACK: When a headphone set is inserted into HEADPHONES jack on the front, any and all speakers in use at the moment will be automatically turned off to facilitate private listening.

STABLE POWER SUPPLY: A regulated power supply is used to supply power to the tuner section, so that reception is stable even if the power supply voltage should fluctuate.

OPERATES ON ALL VOLTAGES: A plug-in type voltage adjuster on the rear panel enables selecting any of these 8 voltages: 100, 110, 117, 127, 220, 230, 240 and 250 volts.

FLYWHEEL TUNING: The tuner section's dial mechanism is outfitted with a heavy flywheel that makes the movement of the pointer exceptionally smooth.

TWO FM ANTENNA INPUTS: With its 75 and 300 ohm antenna inputs, the 600L can be fed with either a coaxial cable or simple single wire at its 75 ohm input, or with a parallel feeder wire at its 300 ohm input. Ideal for both independent residences (75 or 300 ohms) and apartment buildings where several users usually work off the same 75 ohm line.

OTHER FEATURES: DIN Connector Telephone Long Wave Terminal

SPECIFICATIONS:

AUDIO SECTION

POWER OUTPUT:
MUSIC POWER (IHF): 60W (at 8Ω load)
CONTINUOUS POWER (RMS): 25W/25W (at 8Ω load, each chan.)
HARMONIC DISTORTION: less than 1% (at rated output)
HALF-POWER BANDWIDTH: 30–20,000Hz
FREQUENCY RESPONSE: 25–20,000Hz ±1dB

CROSSTALK:
PHONO: better than 40dB (at 1,000Hz)
AUX: better than 40dB (at 1,000Hz)

HUM AND NOISE (below rated output):

VOLUME AT MINIMUM: better than 70dB
PHONO: better than 60dB
AUX: better than 65dB

OUTPUT IMPEDANCE: from 4 to 16Ω

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

PHONO: 2.5mV ±3dB
AUX: 150mV ±3dB
TAPE: 150mV ±3dB
RECORDING OUTPUT (PIN): 150mV ±3dB
RECORDING OUTPUT (DIN): 30mV ±3dB (at rated input) RIAA

EQUALIZER: PHONO

CONTROLS AND FILTER:
BASS CONTROL: +12 – –12dB at 50Hz
TREBLE CONTROL: +12 – –12dB at 10,000Hz
LOUDNESS CONTROL (Volume control at –30dB): +8dB at 50Hz, +3dB at –10,000Hz

NOISE FILTER: 17dB at 10,000Hz

OTHER SPECIAL FEATURES:

DIN connector for tape recorder, direct tape moni-

tor, Headphone Jack, Noise Filter.

TUNER SECTION

FM:

TUNING RANGE: 88–108MHz
SENSITIVITY: 2.0μV (20dB quieting)
SENSITIVITY: 2.5μV (IHF)
SELECTIVITY: better than 40dB
HARMONIC DISTORTION: less than 1%

FM STEREO SEPARATION: better than 30dB at 1,000Hz

SIGNAL TO NOISE RATIO: better than 55dB

IMAGE FREQUENCY REJECTION: better than 50dB at 98MHz
 better than 80dB at 98MHz

IF REJECTION: better than 60dB
SPURIOUS RESPONSE REJECTION: better than 34dB

SPURIOUS RADIATION: less than 34dB

AM:

TUNING RANGE:
LONG WAVE: 150–390kHz
MEDIUM WAVE: 530–1,600kHz
SHORT WAVE 1: 1.8–3.9MHz
SHORT WAVE 2: 4.6–7.6MHz
SHORT WAVE 3: 8.2–15.5MHz
SHORT WAVE 4: 16.3–26.5MHz
SENSITIVITY (for S/N 20dB):
LONG WAVE: better than 40μV
MEDIUM WAVE: better than 40μV
SHORT WAVE 1–4: better than 40μV

SELECTIVITY:

LONG WAVE AND MEDIUM WAVE: better than 40dB (Ant. Input Level 60dB)
SHORT WAVE: better than 30dB (Ant. Input level 60dB)

IMAGE FREQUENCY REJECTION (at center frequency):
LONG WAVE: better than 60dB
MEDIUM WAVE: better than 60dB
SHORT WAVE 1: better than 56dB
SHORT WAVE 2: better than 50dB
SHORT WAVE 3: better than 45dB
SHORT WAVE 4: better than 40dB

OTHER SPECIAL FEATURES:

FM Automatic Stereo Switching Detector Indicator, Tuning Meter, Muting Switch, Flywheel tuning, Telephone LW Terminal, FM Antenna Input, 300 ohms balanced and 75 ohms unbalanced, Fine Tuning, AM (Long Wave, Medium Wave) Ferrite Loop Antenna and Antenna Revolver, Selector Indicator.

SWITCHES:

Noise Filter and Muting, Loudness, STEREO/MONO (L+R), Tape Monitor, Aux, PHONO, SW1, SW2, SW3, SW4, MW and LW, Power.

TRANSISTORS AND DIODES:

Transistors: 41 FET: 1 Varistor: 3 Thermistor: 1
 Diodes: 18 Zener Diode: 1

POWER REQUIREMENTS:

POWER VOLTAGE: 100, 110, 117, 127, 220, 230, 240, 250V (50–60Hz)

POWER CONSUMPTION: 35V.A. (zero signal)
 125V.A. (max. signal)

DIMENSIONS (WITHOUT KNOBS, RUBBER STANDS): 5½"H×18"W×13¼"D

WEIGHT: 28.2 lbs.

Sansui®

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