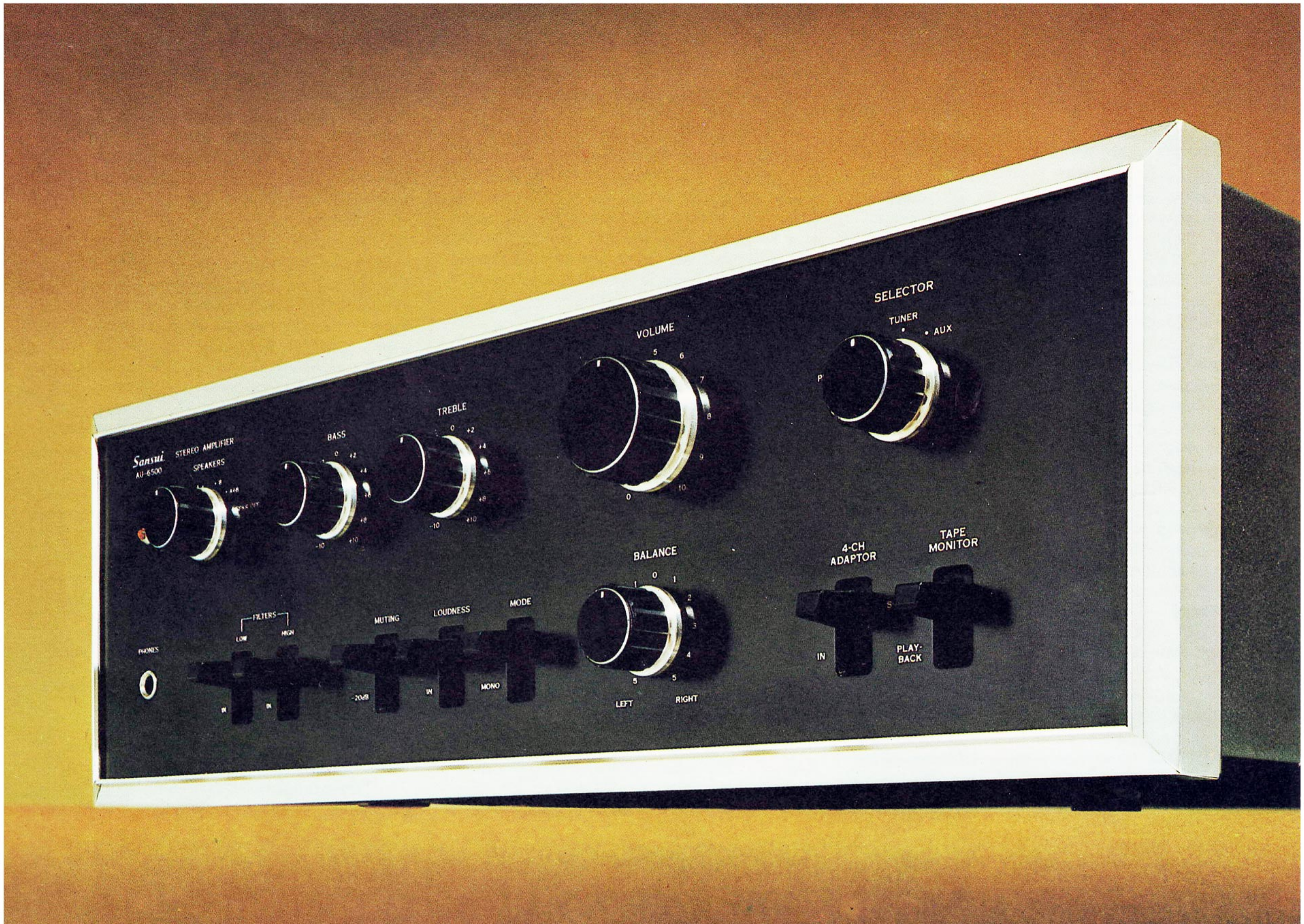


SANSUI AU6500

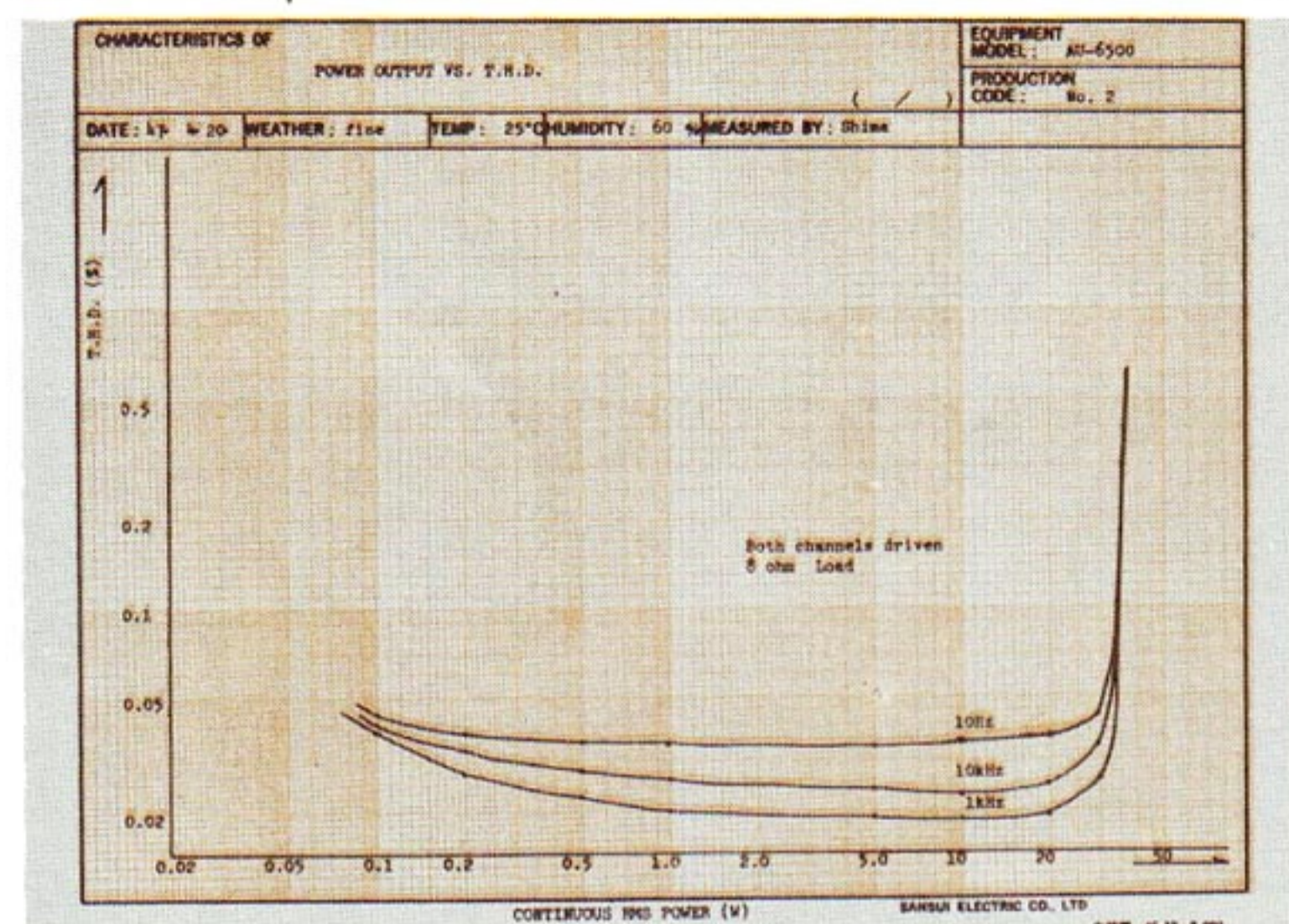


SOLID STATE INTEGRATED AMPLIFIER This handsome package of advanced circuitry and performance characteristics could only come from a manufacturer as specialized as Sansui. A totally new integrated amplifier with a host of special features, the AU-6500 represents another milestone in the company's pursuit of quality and excellence. In terms of performance, the AU-6500 ranks very near to the finest amplifier ever made, meaning you could match it only by making a tremendous investment in specialized studio-type equipment. The AU-6500 boasts such performance characteristics as total harmonic distortion and intermodulation distortion which has been limited to below 0.1% throughout the audio spectrum and well beyond. With its super-wide power bandwidth of 5-40,000Hz, you can achieve RMS power of 32 watts per channel each channel driven, into 8 ohms, along with total harmonic distortion which never exceeds 0.1%. Inside the AU-6500 are a PNP-

NPN-PNP heterojunction three stage direct-coupled equalizer amplifier with an input capacity of no less than 300mV RMS (1kHz) assuring such a wide dynamic range. There are also low-noise PNP transistor tone control circuits and a direct-coupled OCL pure complementary power amplifier employing two 6,800 μ F jumbo power supply capacitors. And to make this a total-performance component, the AU-6500 is equipped with a variety of convenience features, including a 4-channel adaptor switch, low and high filters, muting and loudness controls, and the ability to handle up to two tape decks. The AU-6500 it has been meticulously tested, retested and proven to perform to all the company's claims and promises. You're certainly not going to go wrong with a piece of equipment like this. And you're never going to go wrong with the company that made it. Sansui.



0.1% DISTORTION OVER AND BEYOND THE AUDIO SPECTRUM: Both total harmonic distortion and intermodulation distortion of the AU-6500 stay below 0.1% over and well beyond the entire audio spectrum.



5-40,000Hz POWER BANDWIDTH: Even at peak power, delivering its 32 watts of RMS power per channel each channel driven, into 8 ohms with total harmonic distortion of 0.1%, the AU-6500's output power bandwidth is an incredible 5Hz to double the upper limit of the audible frequency range—40,000Hz.

DIRECT-COUPLED OCL PURE COMPLEMENTARY POWER AMPLIFIER: The completely direct-coupled OCL (output-capacitorless) pure complementary amplifier is driven by dual (plus and minus) powerful, stable power supplies from two 6,800 μ F jumbo capacitors. This amplifier permits negative feedback to be evenly applied from the DC range on up to the super highs. Its damping factor is perfectly flat all the way to the deep low frequencies, which helps in reducing the irregular movement of the speaker cones to an unprecedented degree. In the important differential amplifier, selected low-noise silicon transistors and ripple filters work together to create extremely high stability.

DIRECT-COUPLED 3-STAGE EQUALIZER WITH 300mV PHONO INPUT CAPACITY: A high 44V DC voltage from a specially stabilized power supply is applied to the PNP-NPN-PNP heterojunction three-stage direct-coupled equalizer amplifier. Phono in-

SPECIFICATIONS

POWER OUTPUT

IHF MUSIC POWER 94W (4 Ω) at 1,000Hz
CONTINUOUS POWER (each channel driven) 32/32W (8 Ω) at 1,000Hz
CONTINUOUS POWER (both channels driven) 30/30W (8 Ω) at 1,000Hz
CONTINUOUS POWER (both channels driven at rated distortion) 20—20,000Hz 28/28W (8 Ω)

TOTAL HARMONIC DISTORTION (at rated output) less than 0.1%

INTERMODULATION DISTORTION

(70Hz: 7,000Hz=4:1 SMPTE method) less than 0.1% at rated output

IHF POWER BANDWIDTH (each channels driven at 8 Ω) 5—40,000Hz

FREQUENCY RESPONSE (at 1W power output)

PHONO-1 AND-2 RIAA equalization curve ± 0.5 dB (30—15,000Hz)

OVERALL (from AUX) 10—30,000Hz ± 1.0 dB

MAIN AMPLIFIER ONLY 10—40,000Hz ± 1.0 dB

LOAD IMPEDANCE 4—16 Ω

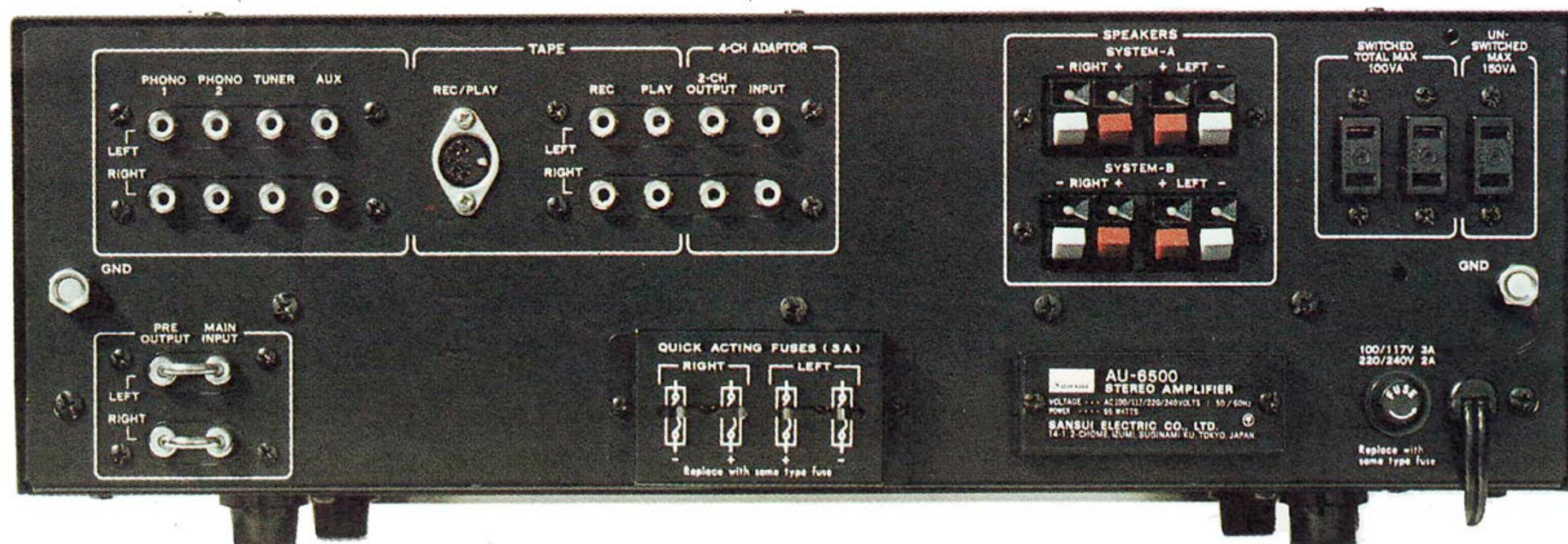
DAMPING FACTOR approximately 40 at 8 Ω load

INPUT SENSITIVITY AND IMPEDANCES

(at 1,000Hz)
PHONO-1 AND-2 2.5mV (50k Ω)

(MAXIMUM INPUT CAPABILITY)

300mV (THD: less than 0.5%)



put accepts up to 300mV(1kHz)RMS with ease, giving an unprecedented wide dynamic range.

LOW-NOISE TONE CONTROL AMPLIFIER:

From its first stage to its output stage, the tone control amplifier exclusively employs select low-noise silicon transistors for low distortion, a high signal-to-noise ratio and wide response. For perfect control effects, it is equipped with bass and treble controls set in click stops of 3dB each and adjustable within ± 15 dB.

HIGH AND LOW FILTERS:

Effective high and low filters are provided on the AU-6500 to eliminate common low-frequency noise (such as turntable motor rumble) and high-frequency noise (such as scratch noise from a worn record).

4-CHANNEL ADAPTOR TERMINAL SWITCH:

The AU-6500 is ready for 4-channel when you are. Special facilities are provided on the amplifier to connect and control a 4-channel adaptor. Pushing down the lever switch activates the external 4-channel adaptor.

TAPE MONITOR AND TWO PHONO INPUT CIRCUITS:

The AU-6500 connects one tape deck, but still allows tape dubbing from one tape deck to a second if you utilize the 4-channel adaptor jack for the second deck. There are also two phono input circuits, with impedances of 50k Ω .

PRE- AND POWER AMPLIFIERS SEPARABLE:

The preamplifier and power amplifier sections may be separated for inde-

pendent use simply by unplugging the jumper connectors.

CONNECTS TWO PAIRS OF SPEAKER SYSTEMS:

You can connect up to two pairs of speaker systems with the AU-6500, and drive them either separately or simultaneously—or cut them both off—by a front-panel control.

COMPLETE PROTECTION CIRCUIT:

The AU-6500 employs a newly-designed protection circuit utilizing three transistors, six diodes and a relay to protect the vital power transistors and your speaker systems in the event speaker terminals are accidentally shorted or other abnormal conditions occur.

MATCHING, ELEGANT APPEARANCE:

Sansui's traditional design for its AU series of components is responsible for the AU-6500's striking good looks. Its dimensions are the same as the Sansui TU-7500 stereo tuner, meaning you can place the two side by side, or on top of each other. A wooden cabinet is available at extra cost.

OTHER CONVENIENCE FEATURES

- 1) An audio muting switch reduces volume by -20 dB over the entire frequency range
- 2) A loudness control switch.
- 3) A convenient mode switch lets you select STEREO and MONO.
- 4) A DIN connector socket simplifies tape deck connections.
- 5) Headphone jack.
- 6) Three AC outlets are provided, two of which are controlled by the power switch.
- 7) Two large ground terminals.

| | |
|---|--|
| TUNER | 100mV (50k Ω) |
| AUX | 100mV (50k Ω) |
| TAPE MONITOR (Pin) | 100mV (50k Ω) |
| TAPE MONITOR (DIN) | 100mV (50k Ω) |
| 4-CH ADAPTOR | 100mV (50k Ω) |
| MAIN AMPLIFIER ONLY | 800mV (40k Ω) |
| OUTPUT VOLTAGE AND IMPEDANCE (at 1,000Hz) | |
| TAPE REC (Pin) | 100mV |
| TAPE REC (DIN) | 30mV |
| 4-CH ADAPTOR | 100mV |
| PRE-AMPLIFIER | 0.8V (THD: less than 0.08%) |
| (MAXIMUM OUTPUT VOLTAGE) | |
| | 4.0V (THD: less than 0.5%) |
| CROSSTALK (at 1,000Hz, rated output) | |
| PHONO-1 AND-2 | better than 50dB |
| TUNER | better than 50dB |
| AUX | better than 50dB |
| MAIN AMPLIFIER | better than 50dB |
| IHF HUM AND NOISE | |
| PHONO-1 AND-2 | better than 70dB |
| TUNER | better than 80dB |
| AUX | better than 80dB |
| MAIN AMPLIFIER ONLY | better than 100dB |
| CONTROLS | |
| BASS | +15dB, -15 dB at 50Hz |
| TREBLE | +15dB, -15 dB at 15,000Hz |
| LOUDNESS | +10dB at 50Hz, +8dB at 10,000Hz (Volume control at -30 dB) |

| | |
|----------------------------|---|
| LOW FILTER | -12 dB at 50Hz (6dB/oct.) |
| HIGH FILTER | -12 dB at 10,000Hz (6dB/oct.) |
| SWITCHES | |
| SELECTOR | PHONO-2, PHONO-1, TUNER, AUX |
| MODE | STEREO, MONO |
| TAPE MONITOR | SOURCE, PLAYBACK |
| MUTING | NORMAL, -20 dB |
| LOUDNESS | OUT, IN |
| LOW FILTER | OUT, IN |
| HIGH FILTER | OUT, IN |
| 4-CH ADAPTOR | OUT, IN |
| SPEAKER SELECTOR | POWER OFF, A, B, A+B, SPKR-OFF |
| SEMICONDUCTORS | Transistors: 36 Diodes: 15, Zener Diode: 1 |
| POWER REQUIREMENTS | 100, 117, 220, 240V 50/60Hz |
| POWER CONSUMPTION | |
| MAXIMUM CONSUMPTION | 125VA |
| RATED CONSUMPTION | 65W |
| DIMENSIONS | 140mm (5 $\frac{5}{16}$ ")H x 440mm (17 $\frac{3}{8}$ ")W x 322mm (12 $\frac{1}{16}$ ")D |
| WEIGHT | 11.5kg (25.3 lbs.) |

Design and specifications subject to change without notice for improvements.