PIONEER®

SA-6500II

Enjoy the Full Range and Quality of Today's High Fidelity Musical Sources with This Stereo Integrated Amplifier

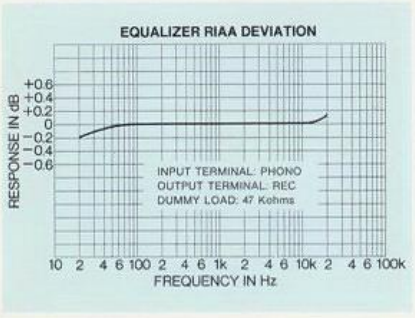
SA-6500II

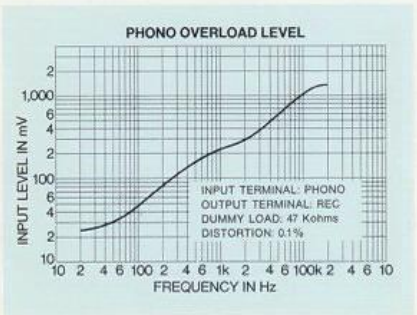
Low-Distortion, High-Power Performance in Stereo Integrated Amplifier with Wide Dynamic Range Equalizer

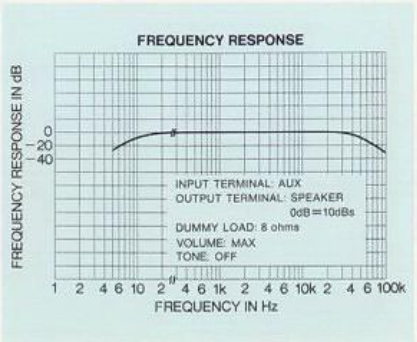
Pioneer stays ahead in hi-fi electronics by designing circuits which more effectively clean up your music and protect its dynamic range. The SA-6500II combines these advanced circuits with a new design concept to provide no-nonsense musical performance at a pleasing price. The big power output is continuous 30 watts per channel, min. RMS at 8 ohms from 20 to 20,000 hertz, with no more than 0.1% total harmonic distortion. Precision CR tone control circuit (each control has 11 click stops), a high performance equalizer amplifier for wide dynamic range, and simple-to-use basic features make the popularly-priced SA-6500II even more appealing as a worthwhile investment in advanced hi-fi electronics. Visit your Pioneer dealer, and read the inside pages to learn how you can stay ahead with Pioneer.

HIGH-PERFORMANCE PHONO EQUALIZER: RIAA EQUALIZATION ±0.3dB

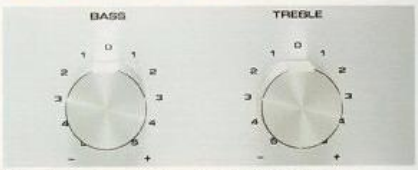
When you play today's improved phonograph records your amplifier must be able to handle a high input level or suffer a degree of unpleasant distortion. The SA-6500II employs a high input voltage-resistant IC in the phono equalizer section in order to avoid distortion. Its split power supply system (plus 21V, minus 19V) steps up the very large margin of PHONO input level to 200mV (1kHz, THD 0.1%) at input sensitivity of 2.5mV. The result of this solid-state sophistication is unquestionably dependable performance. You hear all the dynamics and nuances of the most highly engineered records with the least possible distortion. Deviation from the RIAA equalization curve is only ±0.3dB.



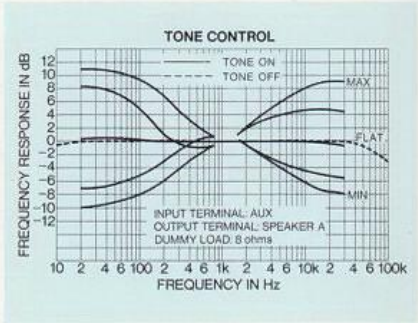




TONE CONTROL USES CR CIRCUITRY: LOW-NOISE, LOW-DISTORTION



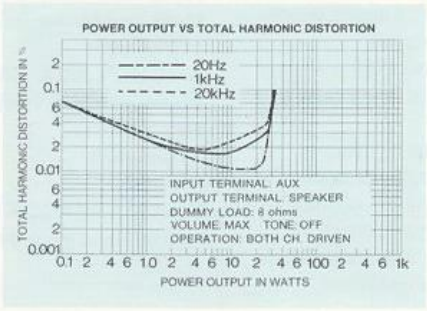
The two-transistor (PNP-NPN) tone control section of the Pioneer SA-6500II uses select low-noise, low-distortion CR elements to expand dynamic range. The CR elements permit versatile tonal adjustments so that you can more precisely match the acoustical proper-



ties of your listening room, and to allow you to get the most out of your phono cartridge. The BASS and TREBLE controls each have 11 click-stops for convenience. There is a TONE defeat switch which permits you to cancel the tone controls at a touch (to "flat") without changing their settings.

LOW-DISTORTION POWER AMPLIFIER: BASS FREQUENCIES SWEET AND CLEAN

The many refinements in the SA-6500 II include a constant-current load construction in the pre-driver stage of the power amplifier. This helps eliminate a time constant at low frequency so that sound quality remains unmuddied and sweet over the whole audible spectrum. The constant-current load, by activating negative feedback, assures that distortion is held to a minimum. The power transistors thus operate well within their linear limitations for richer sound. Power output is **continuous 30 watts per channel, min. RMS at 8 ohms from 20 to 20,000 hertz, with no more than 0.1% total harmonic distortion.** Further, this practical power output is protected with a power supply using a large transformer and a pair of 6,800μF electrolytic capacitors for excellent voltage regulation so that low-range dynamics never suffer power drain.



POWER PROTECTION CIRCUIT: NO ON/OFF NOISE

Pioneer uses both an electronic circuit with TRIAC (a bi-directional triode thyristor) and a fuse circuit in the protection section of the SA-6500 II. Thus the all-stage direct-coupled power circuit is never endangered by irregularities, and the connected speakers never face the threat of shorts. The protection circuitry also employs three transistors to eliminate the unpleasant power on/off noise.

TAPE MONITOR/DUBBING FOR TWO STEREO DECKS

Two tape monitor switches on the front panel give you easy control of two stereo tape decks for recording, monitoring and dubbing from deck 1 to deck 2.

LOUDNESS CONTOUR AND SPEAKER SELECTOR

A loudness contour is provided to compensate for low-level listening drop-out in human hearing at lower and higher frequencies. The speaker selector switch has OFF for headphone listening, A or B or A+B two-pair stereo speaker system selection.

STAY-AHEAD LOOKS AND TOUCH REFLECT PIONEER'S QUALITY

The SA-6500 II matches our new TX series of stereo FM/AM tuners in good clean looks, efficient control location, precise-feeling controls and durable design. Its big master volume control is inset in the solid aluminum panel and calibrated in dB steps that reflect the precision performance of this popular Pioneer stereo integrated amplifier.

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SA-6500 II SPECIFICATIONS

AMPLIFIER SECTION

Circuitry:	1st stage differential amplifier, direct-coupled OCL

Continuous Power Output is 30 watts per channel, min. RMS, at 8 ohms or 30 watts per channel at 4 ohms from 20 to 20,000 hertz with no more than 0.1% total harmonic distortion.

Total Harmonic Distortion: (20 hertz to 20,000 hertz, from AUX)	No more than 0.1% (continuous rated power output) No more than 0.05% (15 watts per channel power output, 8 ohms) No more than 0.05% (1 watt per channel power output, 8 ohms)
Intermodulation Distortion: (50 hertz: 7,000 hertz=4:1, from AUX)	No more than 0.1% (continuous rated power output) No more than 0.05% (15 watts per channel power output, 8 ohms) No more than 0.05% (1 watt per channel power output, 8 ohms)
Output Speaker:	A, B, A+B
Headphones:	Low impedance
Damping Factor:	30 (20 to 20,000Hz, 8 ohms)
Input (Sensitivity/Impedance)	
PHONO:	2.5mV/50 Kohms
TUNER:	150mV/50 Kohms
AUX:	150mV/50 Kohms
TAPE PLAY 1:	150mV/50 Kohms
TAPE PLAY 2:	150mV/50 Kohms
TAPE PLAY 2 (DIN connector):	150mV/50 Kohms
PHONO Overload Level (T.H.D. 0.1%)	
PHONO:	200mV (1kHz)
Output (Level/Impedance)	
TAPE REC 1:	150mV
TAPE REC 2:	150mV
TAPE REC 2 (DIN connector):	30mV/80 Kohms
Frequency Response	
PHONO (RIAA Equalization):	20 to 20,000Hz ±0.3dB
TUNER, AUX, TAPE PLAY:	10 to 40,000Hz +0dB, −1dB
Tone Control	
BASS:	+9dB, −8dB (100Hz)
TREBLE:	+8dB, −6dB (10kHz)
Loudness Contour:	+8dB (100Hz), +5dB (10kHz)
(Volume control set at −40dB position.)	
Hum and Noise (IHF, short-circuited A network)	
PHONO:	72dB
TUNER, AUX, TAPE PLAY:	93dB

SEMICONDUCTORS

ICs:	2
Transistors:	25
Diodes:	16

MISCELLANEOUS

Power Requirements:	110/120/220/240V (switchable) 50-60Hz or 220/240V (switchable) 50Hz
Power Consumption:	300 watts (Max.)
Dimensions:	Without package: 380(W)x139(H)x308(D)mm 14-31/32(W)x5-15/32(H)x12-1/8(D) inches
Weight:	Without package: 7.6kg/16 lb. 12 oz.

NOTE: Specifications and design subject to possible modification without notice.

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PIONEER ELECTRONIC CORPORATION /4-1, Meguro 1-chome, Meguro-ku, Tokyo 153, Japan
U.S. PIONEER ELECTRONICS CORPORATION/75 Oxford Drive, Moonachie, New Jersey 07074, U.S.A.
PIONEER ELECTRONIC (EUROPE) N.V. /Luithagen-Haven 9, 2030 Antwerp, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. /178-184 Boundary Road, Braeside, Victoria 3195, Australia

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