

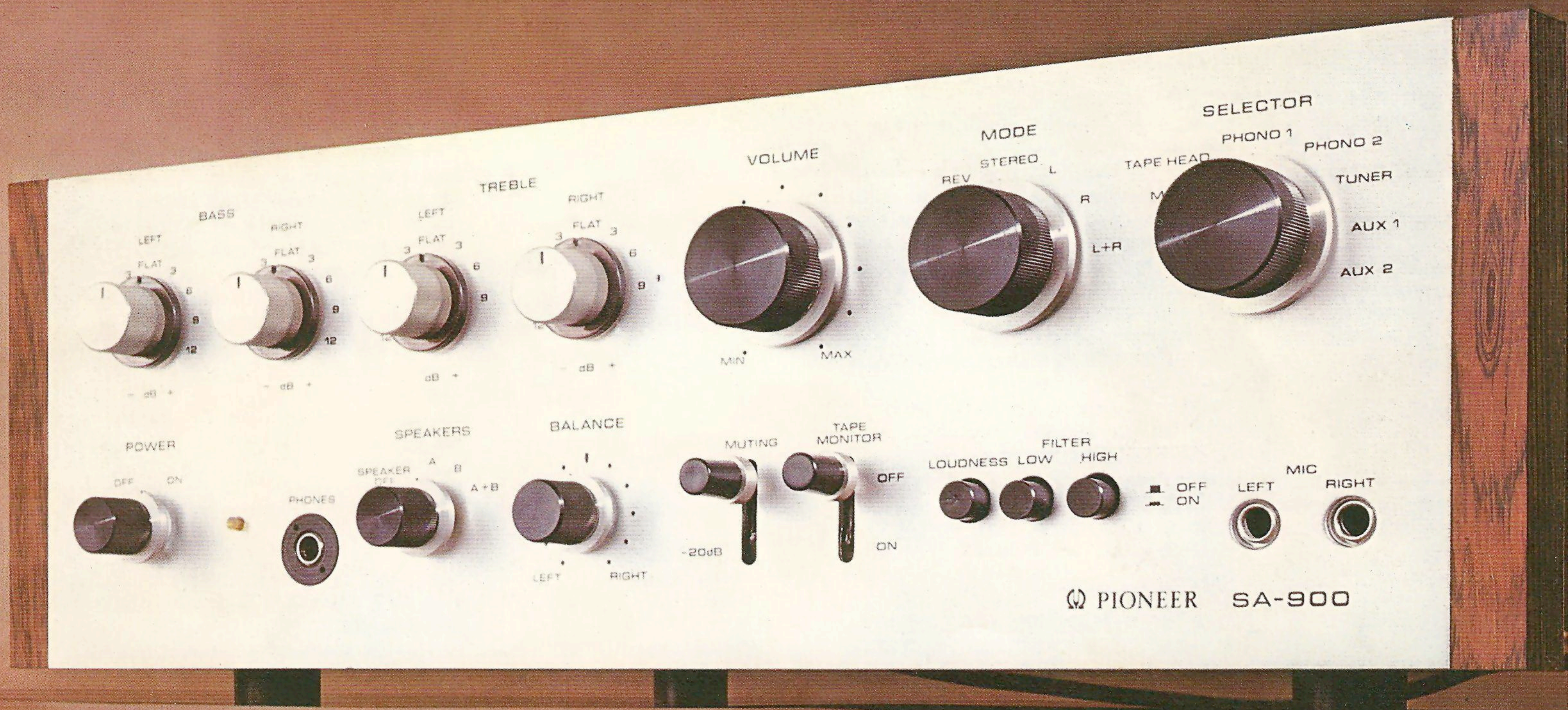


PIONEER
MODEL

SA-900

PROFESSIONAL-TYPE ALL SILICON SOLID STATE PRE/MAIN STEREO AMPLIFIER

The SA-900 is one of Pioneer's most advanced amplifiers. It contains professional features neatly compacted into an all solid state set that's ideal for use with high performance stereo systems. It presents a powerful 200 watt integrated amplifier of exceptional flexibility. Only the finest and most expensive materials have been used throughout, from the low noise silicon transistors in the MC and front end sections to the special Brazilian rosewood tipping the front panel. The control amplifier has FET and advanced 3-stage E-S (Emitter-Source) feedback circuitry. The pre and main amplifiers can be used independently and there are inputs for a wide variety of cartridges and 2 sets of speaker terminals.



PIONEER WORLD-FAMOUS BRAND IN HI-FI REPRODUCTION

PIONEER MODEL SA-900

FEATURES OF THE SA-900

PREAMPLIFIER IS COMPOSED OF THREE PRECISION-MADE SECTIONS:

MC section. Using very special low-noise transistors, this section adequately amplifies low output moving coil cartridges; has very low noise level.

Front end section. Uses low-noise silicon transistors and a direct-coupled 3-stage E-E feedback circuit resulting in significantly better frequency response, a decrease in harmonic distortion and improved tonal quality.

Control amplifier section. Features FET and a direct-coupled 3-stage E-S feedback circuit. Gives a high S/N ratio and minimum distortion

TRULY PRECISE TONE CONTROLS

Despite their markings, most sets have controls that are very approximate. In fact, they are not usually flat even when set at flat. The SA900 is radically different. Set its tone controls at flat and the signal really comes out flat! Accurate 3dB step controls for individual bass and treble adjustment.

POWER-PACKED MAIN AMPLIFIER

This superior amplifier puts out a full 145 watts at 8 ohms with distortion under 0.5% at 1kHz (IHF music power). That is more than enough to fill a concert hall. Damping factor is better than 67 at 8 ohms. Silicon varistor is used for temperature compensation and stable performance at all times.

INDEPENDENT USE OF PRE AND MAIN AMPLIFIER

A selector switch on the rear panel allows independent use of pre and main amps, desirable for multi-channel systems. The pre-amplifier is designed to be used as a control amplifier.

EXCEPTIONAL FLEXIBILITY - GREAT RANGE OF INPUTS & OUTPUTS

The SA-900 features, for example, two phono inputs. By means of push-button selection, one input accommodates either a high output MM type cartridge or a low output MC cartridge. Naturally there's a tape monitor for tape/source comparison and there are also two sets of speaker outputs.

A HOST OF REFINEMENTS

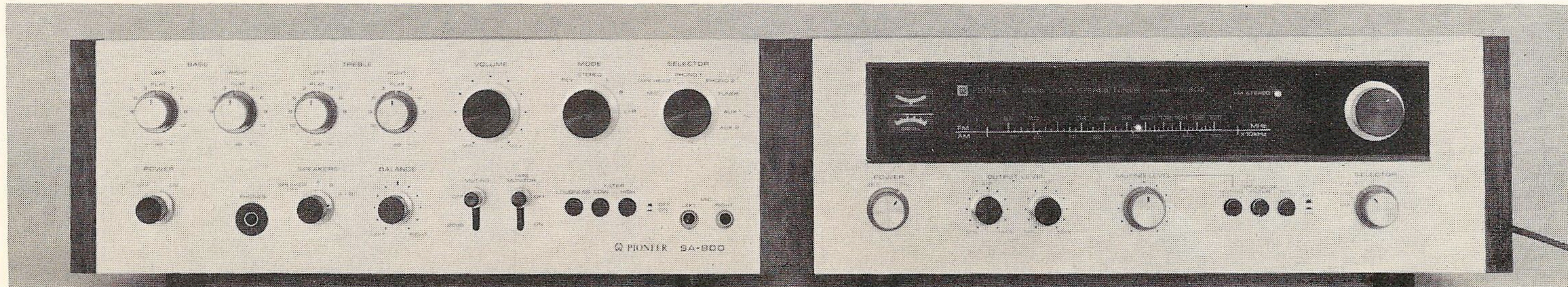
A few Pioneer extras include Hi-Low filters, a special muting switch of -20dB, and the SA-900 can also be used as a channel amplifier by setting the channel filter between pre and main amplifier sections.

SPECIFICATIONS OF THE SA-900

AUDIO SECTION

Circuitry:	Quasi-complementary single ended push-pull circuitry		
Music Power Output:	200 watts at 4 Ω (distortion 0.3% at 1 kHz/IHF) 145 watts at 8 Ω (distortion 0.3% at 1 kHz/IHF)		
Continuous Power Output:	84W/84W at 4 Ω (distortion 0.3% at 1 kHz) 60W/60W at 8 Ω (distortion 0.3% at 1 kHz)		
Continuous Power Output: (both channels driven)	64W+64W at 4 Ω (distortion 0.3% at 1 kHz) 50W+50W at 8 Ω (distortion 0.3% at 1 kHz)		
Harmonic Distortion:	Less than 0.08% (45W, at 1 kHz)		
Frequency Response:	± 1 dB, 20 Hz to 50,000 Hz (AUX)		
Power Bandwidth:	20 Hz to 50,000 Hz (distortion 0.3% constant/IHF)		
S/N Ratio:	PHONO: Better than 80 dB, AUX: Better than 95 dB (volume; maximum, tone; flat at the rated output)		
Damping Factor:	Better than 67 at 8 Ω (at 1 kHz)		
Inputs and Audio Sensitivity, Input Impedance (at 1 kHz):	PHONE (MM)	3.1 mV	50 k Ω
	PHONE (MC)	0.155 mV	150 k Ω
	PHONE (CER)	71 mV	100 k Ω
	MIC	1.9 mV	50 k Ω
	TAPE HEAD	1.8 mV	150 k Ω
	TAPE MONITOR	180 mV	200 k Ω
	TUNER	180 mV	200 k Ω
	AUX	180 mV	200 k Ω
	MAIN IN	500 mV	100 k Ω
Output Terminals and Jacks:	Speakers: 4 to 16 Ω		

	Simultaneous tape recording output: 180 mV		
	Center channel output: 500 mV		
	Tape recording/playback connector (DIN standards)		
	Stereo headphone jack, Pre out: 3V		
Cross Talk:	PHONO	Less than -48 dB (1 kHz)	
	AUX	Less than -50 dB (1 kHz)	
Tone Controls (3 dB Step):	BASS	-9 dB to +12 dB (at 100 Hz)	
	TREBLE	-12 dB to +9 dB (at 10 kHz)	
Filters:	LOW	-6 dB (12 dB/oct at 50 Hz)	
	HIGH	-6 dB (12 dB/oct at 10 kHz)	
Equalization Curves:	PHONO	NFB type RIAA	
	TAPE HEAD	NFB type NAB	
Loudness Contour:	Switchable to ON-OFF		
	+14 dB at 50 Hz		
	+7 dB at 10 kHz (with the volume control set at -40 dB)		
Muting:	-20 dB		
	Switchable to ON-OFF		
Residual Noise:	Less than 0.8 mV at 8 Ω (volume; minimum, tone; flat)		
POWER SUPPLY, etc.			
Power Supply:	Bridge rectifier using silicon diodes		
Power Requirements:	110, 117, 130, 220, 240 volts (switchable) 50-60 Hz, AC		
Power Consumption:	250 VA (at the maximum power output)		
Dimensions:	15-15/16"(W)x 5-1/2"(H)x 13-11/32"(D) 405(W)x 140(H)x 339(D) mm		
Net Weight:	27 lbs	12.3 kg	



For a really advanced stereo set-up, the SA-900 is designed to combine to perfection with the TX-900 stereo tuner.

6905-OK4 Printed in Japan

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