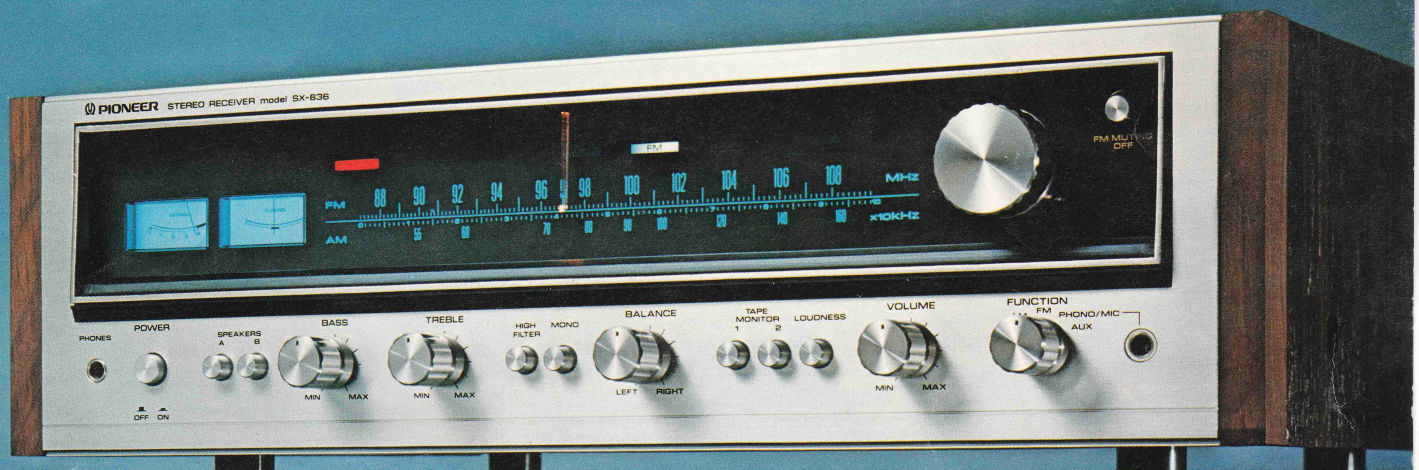


**PIONEER**

# SX-636

High-performance stereo receiver featuring 25 watts\* per channel, min. RMS at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.5% total harmonic distortion.



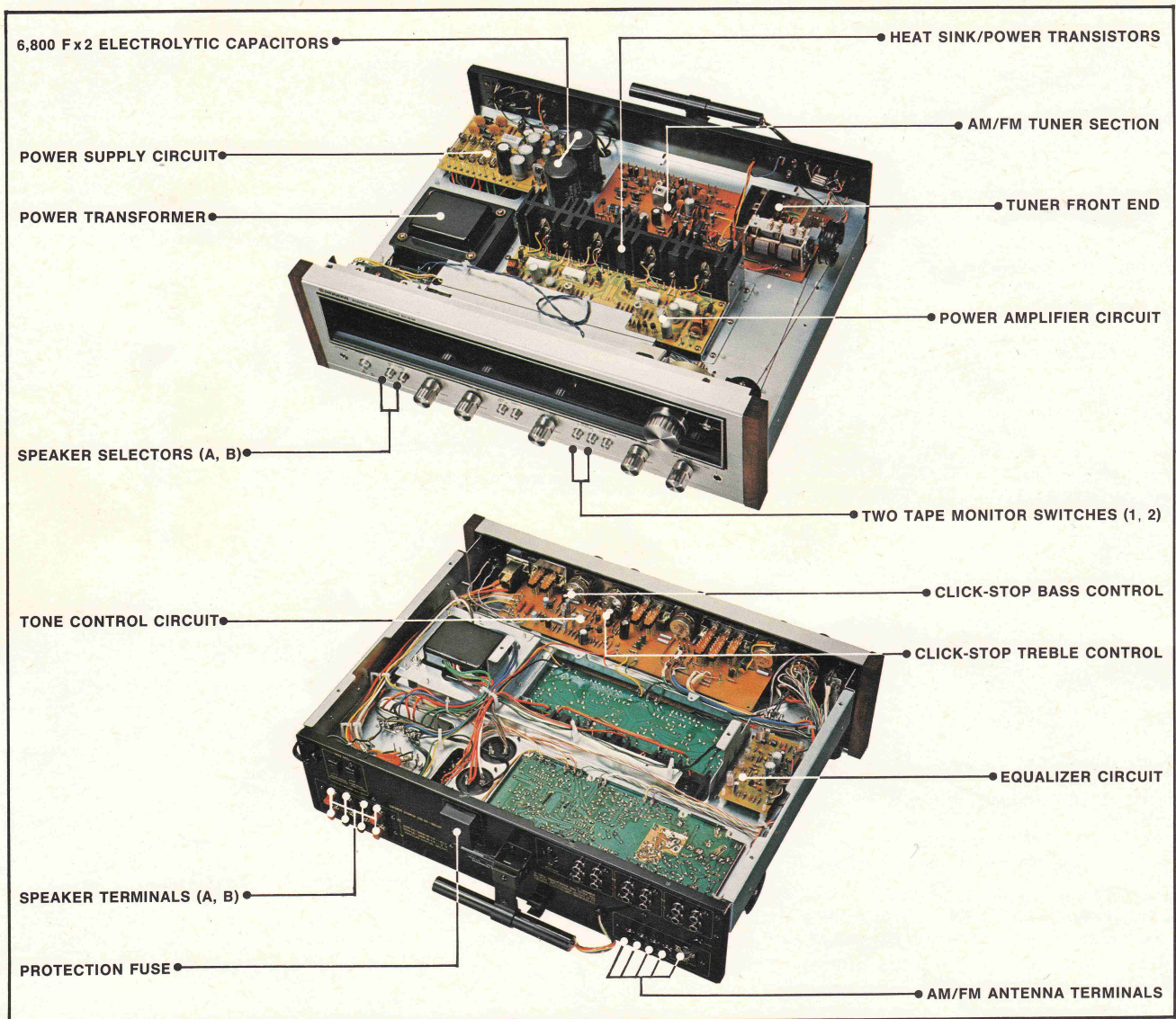
Not all high fidelity situations require high powered equipment. If your listening room is of average size, and what you really want is more efficiency and more sophisticated versatility in a medium-powered model, Pioneer's new SX-636 will be a good choice. It incorporates the latest state-of-the-art advantages for superior high fidelity performance. But it saves you money and doesn't waste watts. The FM tuner employs a low-noise FET and a frequency-linear 3-gang variable capacitor in the front end. The FM IF section features a 5-stage limiter of high-performance IC and phase-linear ceramic filters. And to ensure stability under all operating conditions, the FM MPX circuit is the advanced PLL (Phase-Lock-Loop) type with an IC. FM results are impressive: 1.9 $\mu$ V (IHF) sensitivity, capture ratio of 1.0dB (IHF), 60dB selectivity (IHF), signal-to-noise ratio of 70dB and wide separation of more than 30dB over the 50 to 10,000Hz range. Accurate high fidelity reproduction is achieved with a particularly precise phono equalizer in the Pioneer SX-636. It keeps

RIAA deviation within  $\pm 0.5$ dB. And as for power, the advanced direct-coupled OCL power amplifier provides **continuous power output of 25 watts\* per channel, min. RMS at 8 ohms from 20 Hertz to 20,000 Hertz with no more than 0.5% total harmonic distortion.** This is enough to drive up to two pairs of stereo speaker systems independently or simultaneously with brilliant, high fidelity results. As a stereo control center the SX-636 is up to the minute. There are two stereo pairs of tape terminals (deck 1 to deck 2 tape duplication is possible), a function switch to handle FM, AM PHONO, MIC and AUX. An FM-linear dial scale with dual meter tuning system, illuminated program indicators, a stereo headphone jack and other conveniences add to the versatility. The efficient Pioneer SX-636 puts stereo power in its place—with no wasted watts or wasted money for your stereo pleasure.

\*Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.



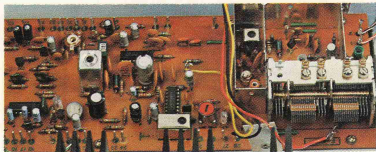
# SX-636



## AM/FM STEREO TUNER SECTION

### (1) STABLE FET-EQUIPPED FM FRONT END FOR HIGH SENSITIVITY

A selected low-noise FET and frequency-linear 3-gang variable capacitor are coupled in the one-stage RF amplifier in the FM front end of the Pioneer SX-636. They provide the kind of high IHF sensitivity ( $1.9\mu V$ ) you'd expect from a high-class tuner. Special attention is given to stability, even in strong-signal areas, thus providing clear FM reception at all times.



### (2) FM IF SECTION WITH 5-STAGE LIMITER AND HIGH PERFORMANCE IC

A high-performance IC is employed in the FM IF section; that is an exclusively-developed Pioneer LSI (Large Scale Integrated-circuit)—the equivalent of no less than 203 conventional solid state devices (88 transistors, 18 diodes, 83 resistors and 14 capacitors). The results are a high signal-to-noise ratio of 70dB, capture ratio of 1.0dB (IHF) and AM suppression of 50dB to provide excellent FM dependability.

### (3) PHASE-LINEAR CERAMIC FILTERS IN IF

To obtain high FM selectivity (a rated 60dB IHF) and low phase distortion, the FM IF section uses phase-linear ceramic filters only. This improves FM







## SX-636 SPECIFICATIONS

### AMPLIFIER SECTION

**Continuous power output of 25 watts\* per channel, min. RMS at 8 ohms or 27 watts\* per channel at 4 ohms from 20 Hertz to 20,000 Hertz with no more than 0.5% total harmonic distortion.**

Continuous Power Output 1,000 Hertz: (both channels driven)	27 watts per channel (8 ohms) 30 watts per channel (4 ohms)
Total Harmonic Distortion: (20 Hertz to 20,000 Hertz)	No more than 0.5% (continuous rated power output) No more than 0.07% (1 watt per channel power output, 8 ohms)
Intermodulation Distortion:	No more than 0.5% (continuous rated power output) No more than 0.07% (1 watt per channel power output, 8 ohms)
Output Speaker:	A, B, A+B
Headphone:	Low impedance
Damping Factor:	35 (1,000 Hertz, 8 ohms)
Input Sensitivity/Impedance	
PHONO:	2.5mV/50 Kohms
PHONO Overload Level (rms):	110mV
MIC:	7mV/85 Kohms
AUX:	150mV/60 Kohms
TAPE PB 1, 2:	150mV/60 Kohms
TAPE PB 2 (DIN connector):	150mV/60 Kohms
Output Level/Impedance	
TAPE REC 1, 2:	150mV
TAPE REC 2 (DIN connector):	30mV/80 Kohms
Frequency Response	
PHONO (RIAA equalization):	30Hz to 15KHz $\pm 0.5$ dB
AUX, TAPE PB:	20Hz to 30KHz $+0.5$ dB, $-1$ dB
Tone Control	
BASS:	$\pm 10$ dB (100Hz)
TREBLE:	$\pm 10$ dB (10KHz)
Filter	
HIGH:	$-9$ dB (10KHz) 6dB/oct.
Loudness Contour: (volume control set at $-40$ dB position)	$+9$ dB (100Hz), $+5$ dB (10KHz)
Hum & Noise (IHF, short-circuited A network)	
PHONO:	70dB

MIC:	65dB
TUNER, AUX, TAPE PB:	90dB
<b>FM TUNER SECTION</b>	
Usable Sensitivity (IHF):	1.9 $\mu$ V
Capture Ratio (IHF):	1.0dB
Selectivity (IHF):	60dB
Signal-to-Noise Ratio:	70dB
Image Rejection (98MHz):	60dB
IF Rejection (98MHz):	90dB
Spurious Rejection:	75dB
AM Suppression:	50dB
Total Harmonic Distortion:	Mono; 0.2% Stereo; 0.4%
Frequency Response:	20Hz to 15KHz $+0.2$ dB, $-2.0$ dB 50Hz to 10KHz $+0.2$ dB, $-0.5$ dB
Stereo Separation:	40dB (1KHz), 30dB (50Hz to 10KHz)
Sub Carrier Suppression:	40dB
Antenna Input:	300 ohms balanced and 75 ohms unbalanced
Muting:	ON-OFF

### AM TUNER SECTION

Sensitivity:	300 $\mu$ V/m (IHF, ferrite antenna), 15 $\mu$ V (IHF, ext. antenna)
Selectivity:	35dB
Signal-to-Noise Ratio:	50dB
Image Rejection:	40dB
IF Rejection:	70dB

### SEMICONDUCTORS

FET:	1
ICs:	3
Transistors:	33
Diodes:	17

### MISCELLANEOUS

Power Requirements:	U.S.A. and Canada model; 120V 60Hz only or 110, 120, 130, 220, 240V (switchable) 50-60Hz 140 watts (KCU), 220 watts (FVGN)
Power Consumption:	140 watts (KCU), 220 watts (FVGN)
Dimensions:	Without package: 480(W) x 147(H) x 405(D) mm 18-29/32(W) x 5-25/32(H) x 15-15/16(D) inches Without package: 11.2kg/24 lb. 11 oz.
Weight:	

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

\*Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

# PIONEER®

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