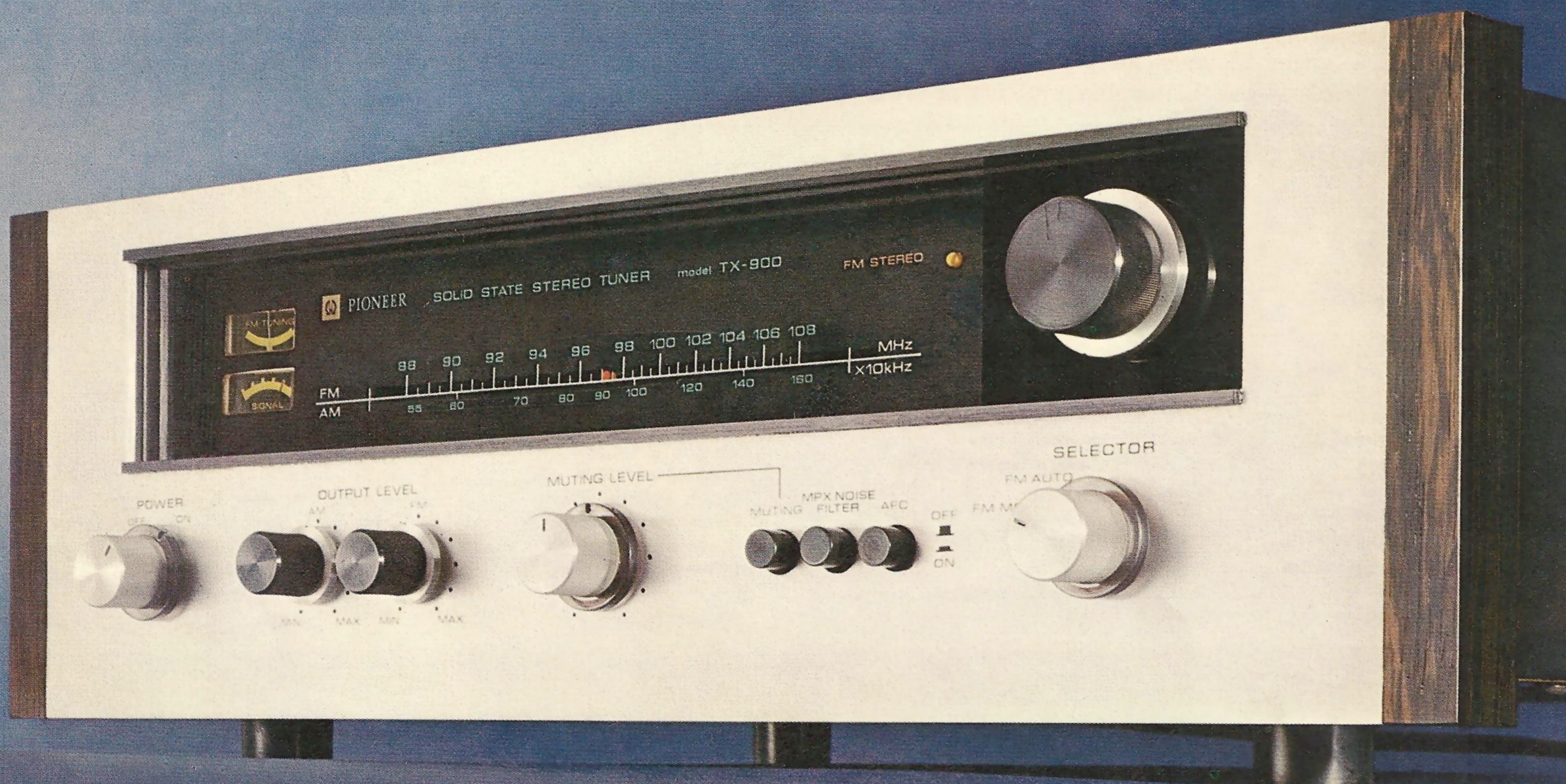


PIONEER MODEL TX-900

PROFESSIONAL-TYPE TUNER FOR PERFECT RECEPTION

The TX-900 is not only one of Pioneer's finest tuners but one of the most advanced available today for home stereo enthusiasts. It has all solid state circuitry and contains such features as 3 FET's and 2 RF stages in the front end, a radically new bright spot indicator for visual tuning, and 2 crystal filters and 4 IC's in the IF section.

Anyone including this superb new tuner in his stereo system will be rewarded by years of the very best AM/FM reception.



PIONEER MODEL TX-900

FEATURES OF THE TX-900

FM SECTION WITH MULTIPLEX

By employing 3 FET's and a 4-gang variable capacitor in the front end section the FM tuner is able to give extremely high sensitivity, improved signal to noise ratio, and utterly stable reception.

If noise should arise, due to insufficient antenna input for FM stereo, Pioneer has cleverly included a special noise filter which can be used to eliminate unwanted multiplex broadcast noises.

The all solid state circuitry is among the most advanced in the world; including FM multiplex to enable you to tune in on stereo broadcasts with dynamic results. In this multiplex circuit, a time switching de-modulator boosts stereo performance by increasing frequency response and allowing for clear reception of high fidelity sounds. Auto switching provides effortless selection of stereo broadcasts. Cross modulation has been eliminated in the front end.

IF SECTION WITH 2 CRYSTAL FILTERS

Pioneer has used 2 crystal filters in the IF section to give the TX900 remarkable selectivity and an excellent capture ratio. The hard limiting IF section has extra stability and far better channel separation than usual, all thanks to the use of 4 IC's.

SELECTIVE MUTING

Besides the noise filter for FM stereo, the TX-900's circuitry also incorporates a unique adjustable muting switch which can totally eliminate interchannel noises. The unique feature of this switch is

that the cut-off level is continuously variable so that while the noise can be suppressed to any level required you can still select the weakest signals.

PRECISE STATION SELECTION

To put you on both AM and FM bands Pioneer's new bright spot indicator lights up at the place where a signal is being received. There are then twin tuning meters to put you exactly on the station. These are located at the left of the dial scale. One tells you FM signal strength and the other shows you the precise tuning point of the signal. These useful meters allow you to obtain a point where signal strength has the minimum distortion, maximum fidelity and channel separation, and where the signal to noise ratio is ideal.

AM TUNER

In the AM section there's a separate oscillator and mixer with 1 RF stage to handle strong signals with less spurious interference.

A DESIGN TO SUIT ITS FEATURES

The TX900 is a beautifully designed unit externally also. End pieces are of expensive Brazilian rosewood while controls are elegantly set on a brushed chrome panel. The tuning control is on a wide multi-colour illuminated dial scale and is extra large for fine adjustments. On the back is an adjustable ferrite bar antenna; an easily switchable line voltage selector so you can use the TX-900 anyplace in the world; and a variety of jacks to give this set the versatility to match the performance of any other units in your system.

SPECIFICATIONS OF THE TX-900

FM SECTION

Circuitry:	Front end using 3 FET's and 2 RF stages, IF section using 2 crystal filters and 4 IC's
Frequency Range:	87.5 to 108 MHz
Sensitivity:	1.7 μ V (IHF)
Capture Ratio:	1.5 dB (at 82 MHz)
Image Rejection Ratio:	95 dB (at 82 MHz)
Selectivity:	65 dB
S/N Ratio:	60 dB (30% mod), 7 dB (IHF)
Harmonic Distortion:	0.3% (400 Hz, 100% mod)
Output Voltage:	1 V (400 Hz, 30% mod, adjustable)
Antenna Input:	300 Ω (balanced)
Muting with level Control:	
Output Level Control:	separate control of each channel

MULTIPLEX SECTION

Circuitry:	Time switching type de-modulator
Channel Separation:	38 dB (at 1 kHz)

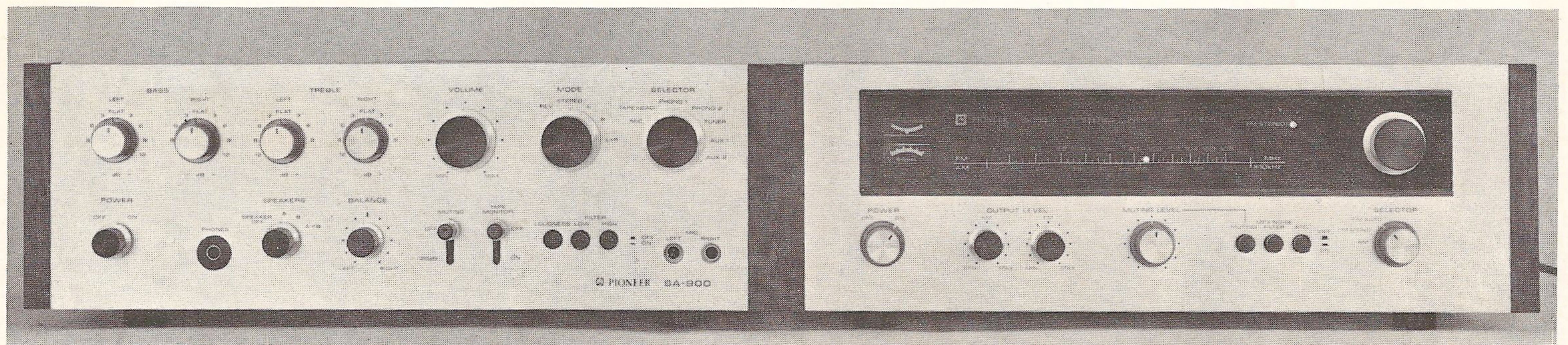
30 dB (40 Hz to 8 kHz)

Stereo Indicator:
FM/MONO automatic selector:

MPX Noise Filter:

AM SECTION

Frequency Range:	525 kHz to 1605 kHz
Sensitivity:	10 μ V (IHF)
Image Rejection Ratio:	70 dB (1000 kHz)
IF Frequency:	455 kHz
Output Voltage:	1 V (400 Hz, 30% mod, adjustable)
Antenna:	Ferrite bar antenna
Output level Control:	Separate control of each channel
POWER SUPPLY, etc.	
Power Supply:	Full-wave rectifier using silicon diodes
Power Requirements:	110, 117, 130, 220, 240 volts (switchable)
Power Consumption:	14 VA, 20W
Dimensions (Overall):	15-15/16"(W)x5-1/2"(H)x14"(D) 405(W)x140(H)x356(D)mm
Weight:	17.2 lbs 7.8 kg



For a really advanced stereo set-up, the TX900 tuner is designed to combine to perfection with the SA900 integrated amplifier.

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