

JVC VT-700 FM/AM STEREO TUNER



The Tuner of Tomorrow is Here Today JVC's VT-700

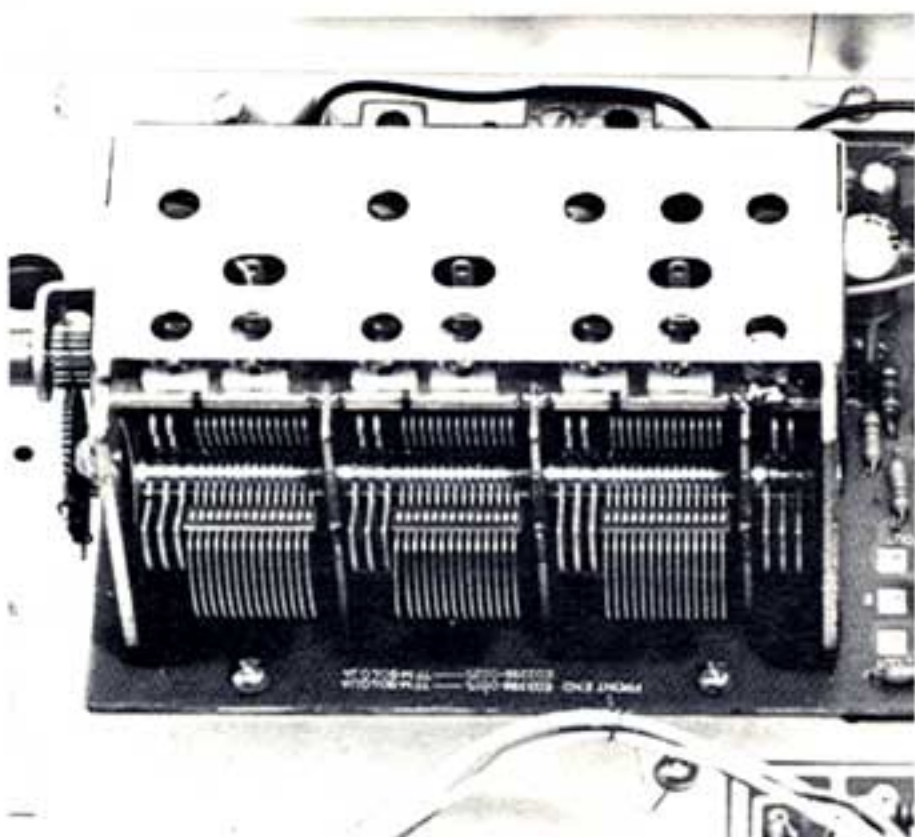
Invest for the future as well as for the present. JVC's all-new high performance VT-700 FM/AM Stereo Tuner not only provides great 2-channel stereo pleasure today, but offers the added attraction of built-in 4-channel reception capability for the future. IC and FET-equipped, it stays on full alert for the day when 4-channel broadcasts become commonplace.

Its 4-channel "stand-by" status is made possible by the inclusion of an FM detect or output terminal, which can be put to instant service when 4-channel stereo broadcasting is begun with the help of an SCA band. And in the meantime, it offers unsurpassed reception of conventional 2-channel FM stereo and AM broadcasts.

In addition to the one FET and 4-gang tuning capacitor in its FM frontend, the VT-700 has a pair of IC's and four dual-resonator mechanical filters in its IF section to attain such excellent performance characteristics as 1.7 μ V usable IHF sensitivity, stereo separation of better than 38dB at 1,000Hz and an IHF capture ratio of 0.8dB. Better yet, the tonal quality of the RF amplifier is natural and transparent beyond comparison with most previous tuners, permitting the lows, midranges and highs — the whole range of sound — to flow with exceptional smoothness and fidelity.

Ultra-sensitive FM Section

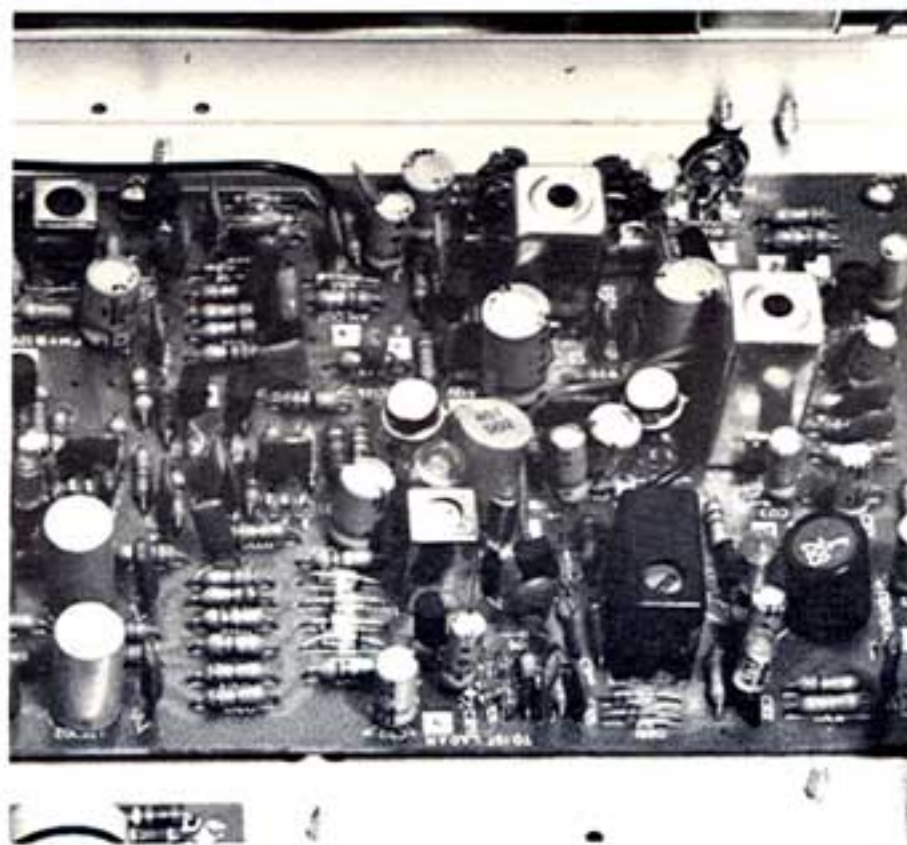
Equipped with a Field Effect Transistor (FET), the VT-700's FM tuner section minimizes harmful cross modulation distortion, while a 4-gang tuning capacitor permits an unprecedented 100dB in spurious signal rejection and 90dB each in image rejection and IF rejection. Better yet, the VT-700 realizes a capture ratio of 0.8dB, (which means interference-free operation regardless of where it may be used) and IHF sensitivity of 1.7 μ V, which means it is able to pull in distant FM stations with exceptional clarity. The FM tuner is also complete with 2 terminals for a regular 300 Ω antenna and a 75 Ω outdoor coaxial cable antenna should conditions require it.



FM IF Amplifier With Two IC's and 4 Ceramic Filters

The FM IF amplifier of the VT-700 makes use

of four dual element ceramic filters to cut out unwanted frequency bands while ensuring quality reception of FM broadcasts. Since each of these filters does the job of two ordinary mechanical filters, however, the four are actually the equivalent of 8 such ordinary filters. They not only provide for high selectivity, but greatly improve tonal quality, and especially frequency response. The FM tuner's high selectivity is evident even from the fact that a station only 400KHz distant from the station being received is attenuated by 70dB, as compared to 40 to 60dB claimed by almost all other receivers. The frequency response of the FM tuner extends from 20 to 15,000Hz within \pm 1dB.



Low-distortion FM Multiplex Circuit

The FM multiplex circuit of the VT-700 keeps total harmonic distortion to a negligible 0.5%, as compared to 1.0% or so found on most receivers. The result is transparent, clear sound.

FM Multiplex High Blend Switch

In areas where FM stereo signals are too feeble and disturbing high-frequency whistle noise mixes with the broadcasts. Turn on this switch, and the noise is filtered out for surprisingly clear, pleasant reception.

Two Tuning Meters, FM Linear Scale

Receivers equipped with only one signal strength meter are difficult to tune exactly to a strong station. But the VT-700 is equipped with both a "center-of-channel" meter and an ordinary signal strength meter. Together, they make it possible to tune in a station with pinpoint accuracy regardless of how strong it may be, achieving quality reception with minimal distortion. In addition, the adoption of a frequency linear tuning capacitor has allowed an evenly graduated, so-called "linear" dial scale to be incorporated for the FM band. This is not only easier to the eye, but also helps in accurate tuning. The AM tuner also boasts exceptional sensitivity and selectivity.

Output Level Control

An Output Level Control is provided on the front panel to permit adjusting the level of output signal in accordance with the input signal

strength and input sensitivity of the connected amplifier.

Inter-station Noise Muting Switch

A simple "flick-on-and-off" switch on the front panel activates the built-in muting circuit in the VT-700 to suppress the unpleasant noise usually heard between FM stations when tuning.

FM Detect Output Terminal

The VT-700 is equipped with an FM detect output terminal to prepare you for the day when 4-channel FM broadcasts become commonplace. When such broadcasts have begun, simply connect a 4-channel decoder to this terminal, and the broadcast signals will be decoded into four discrete channels to be fed into the front and rear channel amplifiers of a 4-channel amplifier—such as the JVC 4VN-770—and two pairs of speaker systems.

Smooth Tuning Mechanism

A big flywheel and a relatively friction-free dial mechanism join the exceptionally long dial feature in enabling easy, pinpoint tuning.

Two Pairs of Output Jacks

The VT-700 is complete with two pairs of output jacks. One is a variable type whose signal level can be controlled by the front-panel output level control and which is convenient for connection to your amplifier, while the other is a fixed-level type for connecting a tape recorder.

AC Outlet Socket

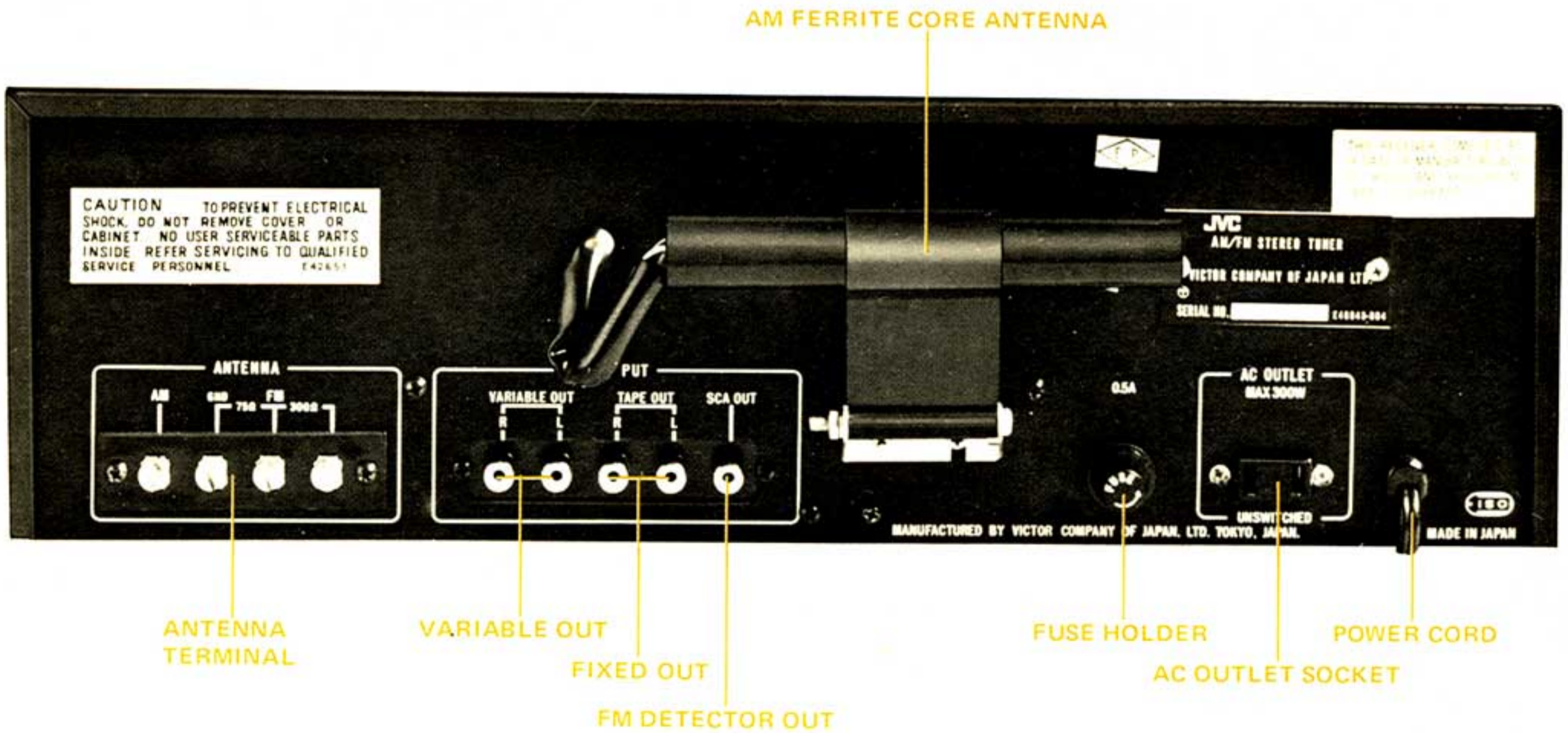
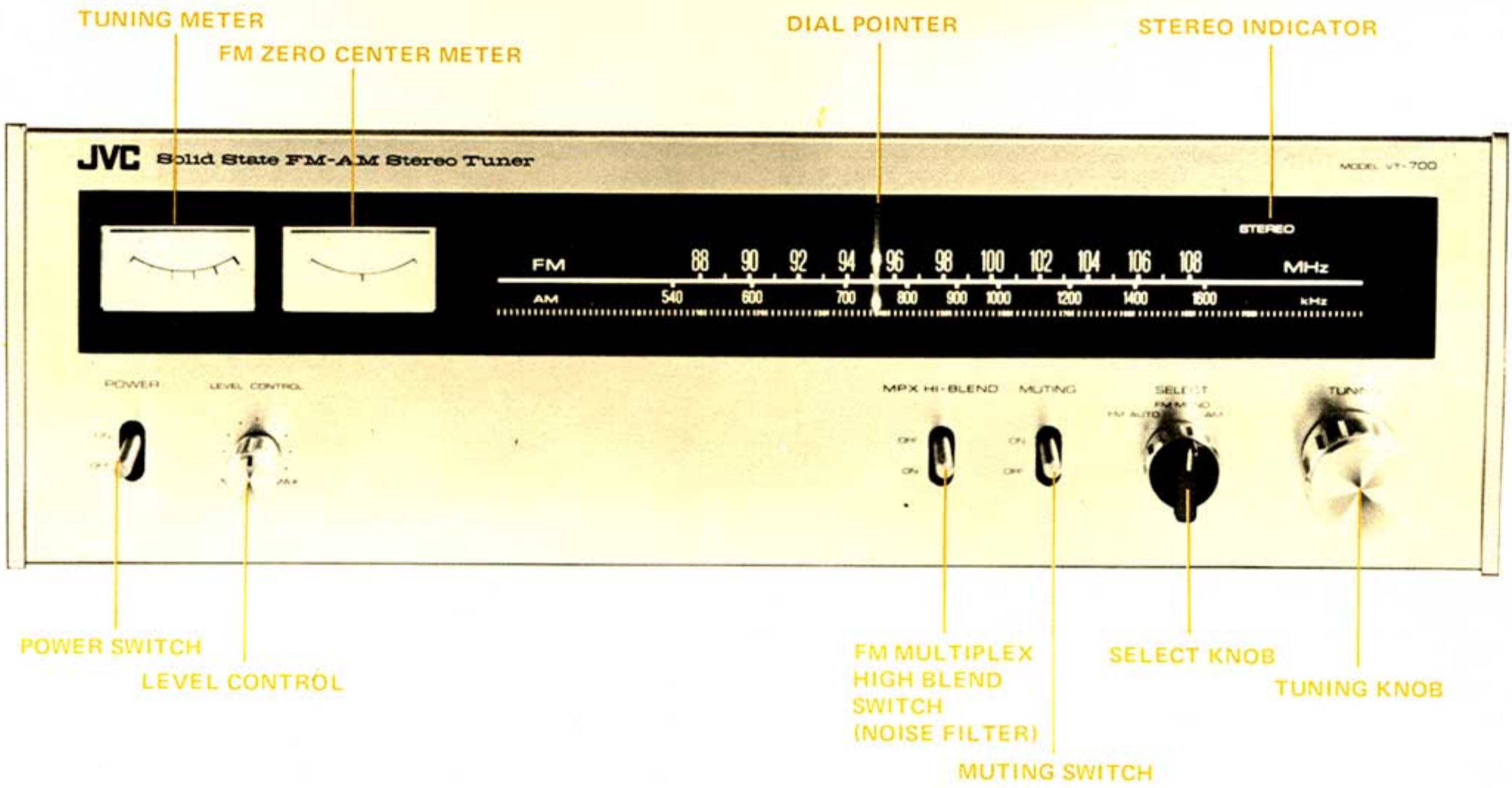
The AC socket on the rear panel has a power capacity of 300 watts and is convenient for powering a tape deck, turntable or especially an FM 4-channel decoder in the future.

300 Ω and 75 Ω FM Antenna Terminals

Both 300 Ω balanced and 75 Ω unbalanced FM antenna terminals are provided on the VT-700's rear panel, making it possible to connect either regular feeder cable antenna or the more expensive coaxial cable.

Distinctive Styling

The VT-700 offers dimensions and distinctive styling to match other JVC stereo components. Faced in sophisticated black, the tuner is as pleasant to the eye as it is to the ear, with its switches and controls conveniently arranged on the front panel for easy, fool-proof operation.

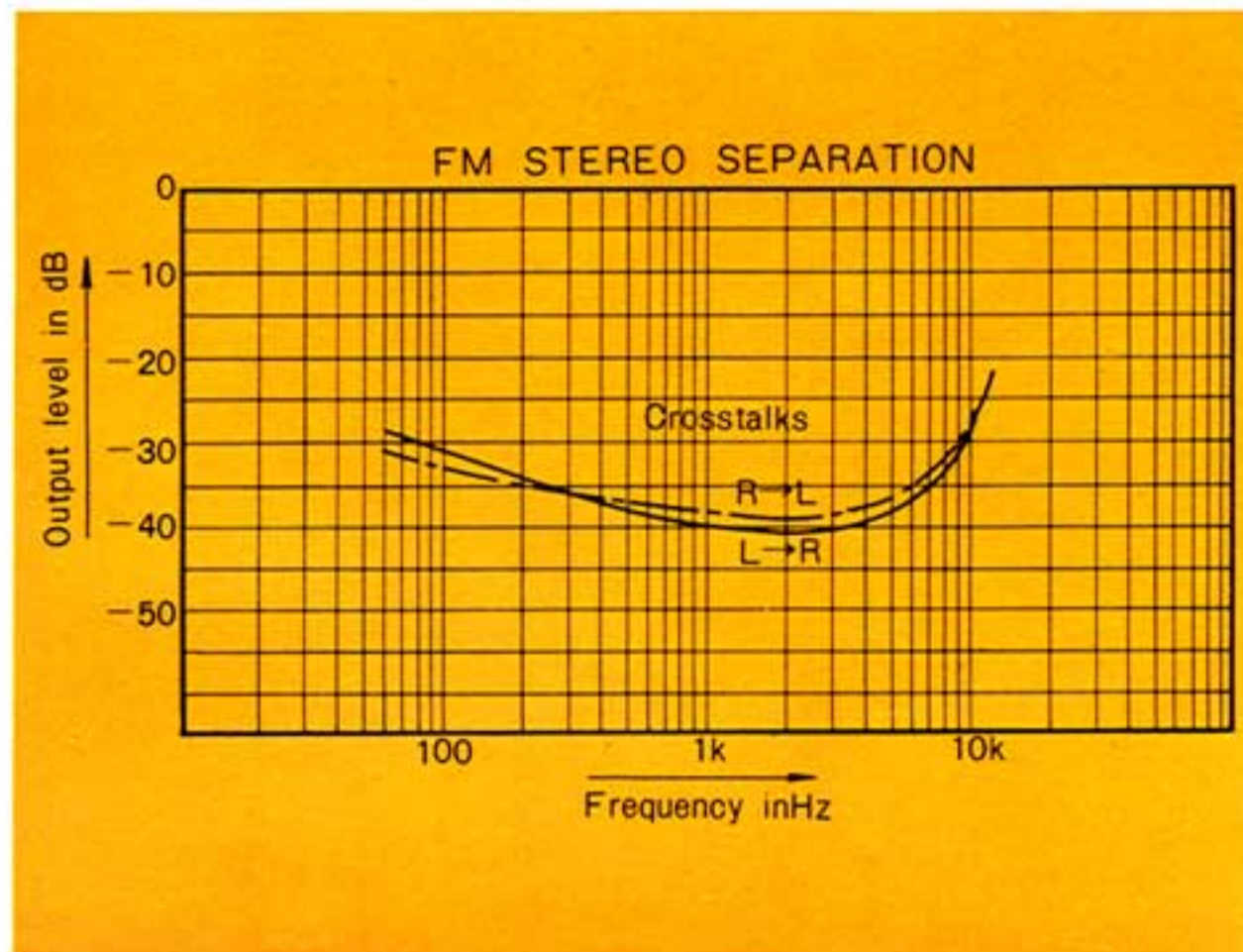
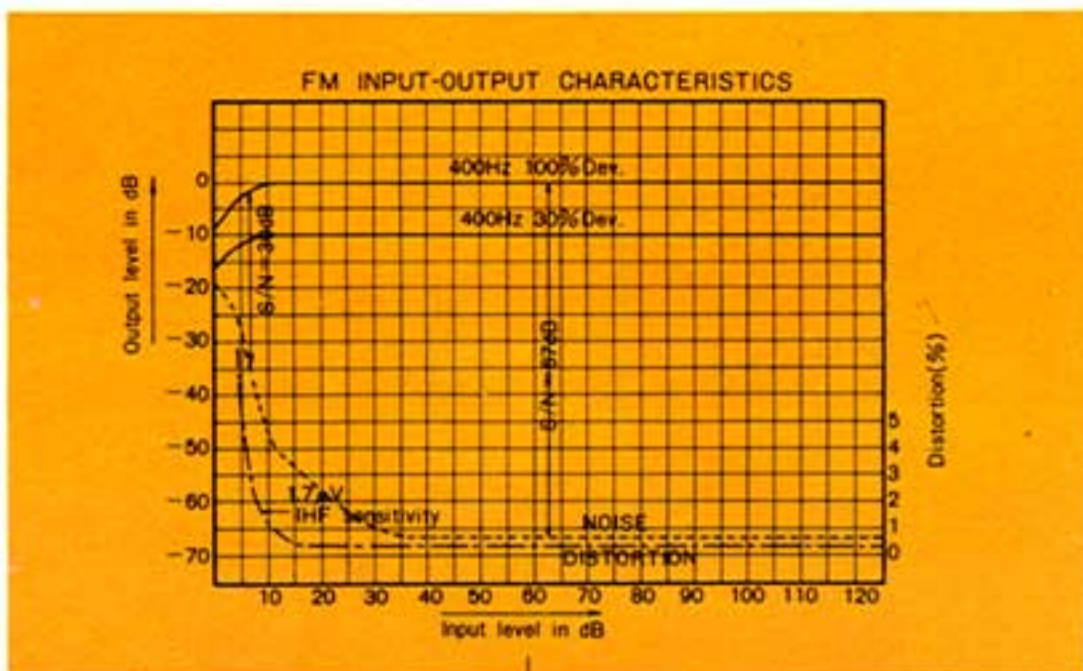


SPECIFICATIONS

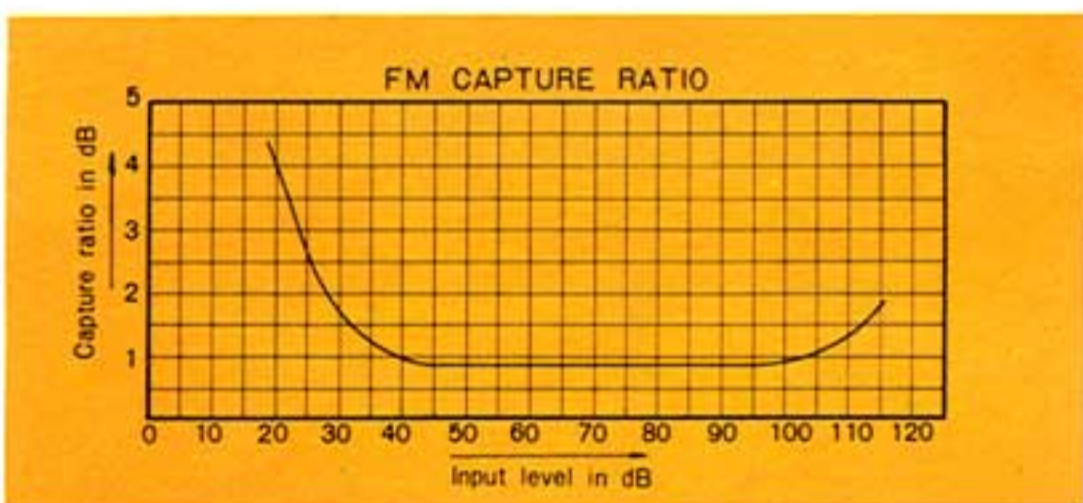
FM TUNER SECTION

Tuning Range : 88-108 MHz
 Usable Sensitivity, (IHF) : 1.7 μ V
 Rating for Full Limiting, (IHF) : 2.2 μ V

Image Rejection : Better than 90dB
 IF Rejection : Better than 90dB
 Spurious Signal Rejection : Better than 100dB
 AM Suppression : Better than 55dB
 Stereo Separation : Better than 38dB (at 1,000Hz)
 Better than 25dB (at 10,000Hz)



Capture Ratio, (IHF) : 0.8dB

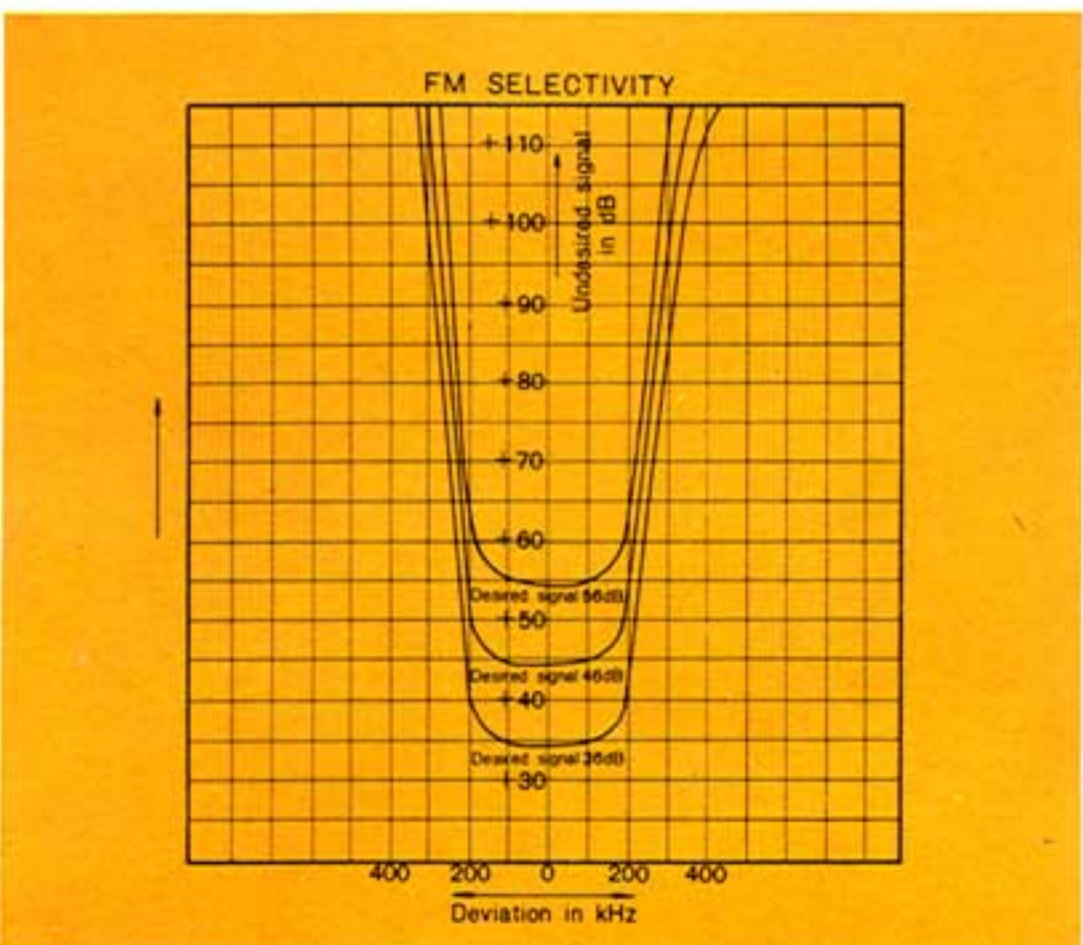


Sub Carrier Suppression : Better than 50dB
 SCA Carrier Suppression : Better than 45dB
 Stereo Audio Switching Level : 20 μ V
 Muting Level : 20 μ V
 Frequency Response : 20-15,000Hz \pm 1dB
 Frontend : 1-FET 4-gang tuning capacitor
 IF Stage : 2-IC's 4 (8 element) Ceramic Filters
 Output (Variable Out) : 1.0V-0V
 (Fixed Out) : 0.4V

Total Harmonic Distortion : Mono Less than 0.3%
 (at 400Hz, 100% Mod.) : Stereo Less than 0.5%
 (at 10,000Hz 100% Mod.) : Stereo Less than 3.0%
 Signal-to-Noise Ratio : Better than 65dB
 Selectivity (Alt. Channel), (IHF) : Better than 70dB

AM TUNER SECTION

Tuning Range : 535-1605kHz
 Usable Sensitivity, (IHF) : 15 μ V
 Signal-to-Noise Ratio : Better than 50dB (at 1mV Input)
 Image Rejection : Better than 45dB
 Frontend : 3-gang tuning capacitor.
 IF Stage : 1 (2-element) Ceramic Filter
 AM Output (Variable Out) : 1.0V-0V
 (Fixed Out) : 0.4V



POWER SOURCE : AC 120V 50/60Hz
 POWER CONSUMPTION : 20W
 DIMENSIONS : 5-3/8"H x 16-3/8"W x 12-1/2"D
 WEIGHT : 16.5 lbs.
 ACCESSORY : Signal Cord

Design and specifications subject to change without notice.



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