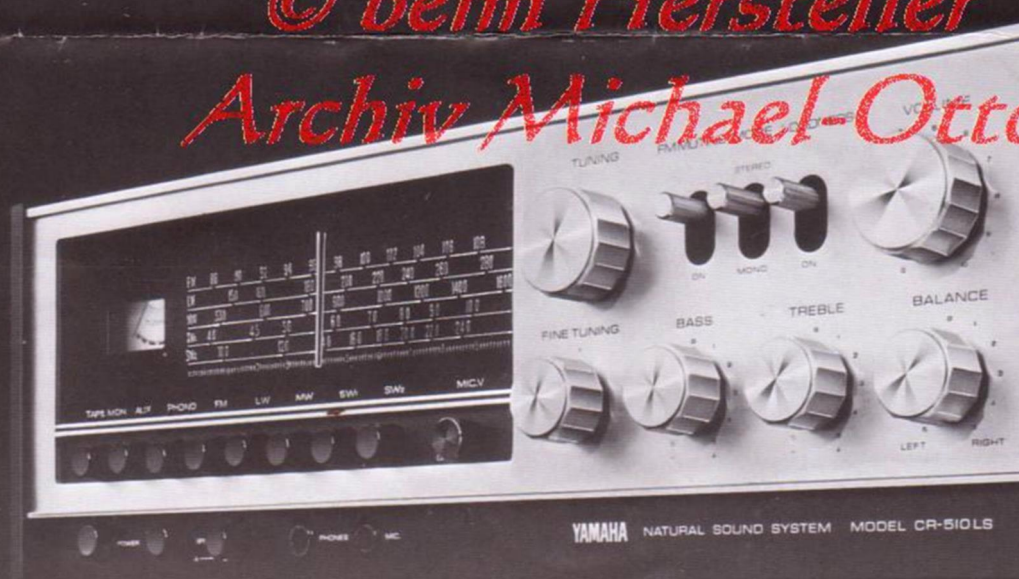


YAMAHA CR510LS

FM/LW/MW/SW STEREO RECEIVER WITH 60 WATTS OF POWER

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Archiv Michael-Otto*



The Yamaha CR-510LS:

A medium-powered stereo receiver with FM, AM, long and two short wave bands.

It is the rare medium-powered receiver indeed that boasts the performance of the Yamaha CR-510LS. While this unusually functional unit delivers 60 watts of power at 8 ohms (IHF), it also offers the remarkably low total harmonic distortion figure of 0.5% at rated output, as well as intermodulation distortion of 0.05%. What is even more significant, the CR-510LS delivers usable FM sensitivity of 2.0 μ V, while offering the bonus of FM/LW/MW/SW receivers with 5-band coil pack. All of these features are combined in one magnificent compact unit, uniquely styled and solidly built to add musical pleasure to your life for many years to come.

FET/IC Solid State Circuitry: Nothing but the finest and latest solid state devices are employed in the CR-510LS. For low signal to noise ratio, the unit employs an FET (field effect transistor). For drift-free intermediate-frequency amplifier stages, ceramic filters for reliability are used.

Low Distortion, Outstanding Sensitivity: FM usable sensitivity of this unit is a low 2.0 μ V, which means you'll be

able to pull in even weak FM signals. In the amplifier section, total harmonic distortion is rated at 0.5%, while intermodulation distortion is a low 0.05% at -3dB of rated output. These figures mean, quite simply, that your music will be virtually distortion-free, and even that undesirable FM interstation noise will be practically non-existent.

Broadcast Versatility: The CR-510LS is equipped with FM, AM, long and short-wave bands to give you an internationally flavored wide band coverage. Contributing to the superior performance of these bands is the use of selective receiver band-pass filters to prevent adjacent station channel interference. The CR-510LS will thus provide sufficient reception separation at a mere 3dB difference between interference and desired signal, meaning that you will be able to precisely tune a station even in areas of great FM signal congestion.

Ceramic Muting Filter: This new type of muting filter, a push-button device, assures low noise FM reception by reducing the volume of the FM signal.

Tuning Meter: This easy-to-read meter

affords maximum signal strength when tuning all bands, with its meter pointer indicating maximum strength by deflecting to the right.

Speaker System Selectors: The CR-510LS will power two sets of speaker systems, separately or simultaneously. The conveniently-placed front-panel buttons allow you to choose the speaker mode you prefer.

Component Versatility: Input jacks of the CR-510LS permit you to add a turntable, tape deck and two FM antennas to the unit for additional versatility. There is also a rear panel coupler that allows you to use the pre-amp and main amp sections separately and thus build either a four-channel stereo system or multi-amp system.

Other Features: This receiver also features an extra-wide FM linear dial scale, ferrite bar antenna for MW/LW reception, voltage selector that lets you adapt it for use anywhere in the world, microphone jacks with volume control and speaker amplifier protection circuits. The styling is simple, yet elegant, with all controls functionally placed for ease of access.

SPECIFICATIONS

AMPLIFIER SECTION

Dynamic Power (IHF):	60W at 8 Ω
RMS Power (Each Channel Driven):	22/22W at 8 Ω
RMS Power (Both Channels Driven):	19/19W at 8 Ω
Total Harmonic Distortion:	0.05% at -3dB 0.5% at rated output
Intermodulation Distortion:	0.05% at -3dB of rated output
Power Bandwidth:	10Hz-60kHz at 0.5% THD
Frequency Response (Aux Input):	10Hz-50kHz \pm 2dB
Input Sensitivity/Impedance (for rated output):	
Phono	3mV/50k Ω
Mic	4mV/50k Ω
Aux	200mV/50k Ω
Tape PB	200mV/50k Ω
Main In	775mV/100k Ω
Hum and Noise:	
Phono	65dB

Mic	60dB
Aux	80dB
Tape PB	80dB
Main In	85dB
Output Voltage:	
Rec Out	200mV
DIN Connector	200mV (Europe) 30mV (South Africa)
Pre Out	775mV
Tone Controls:	
Bass	\pm 10dB at 70Hz
Treble	\pm 10dB at 10kHz
Loudness Controls:	+8dB at 70Hz, +4dB at 10kHz
Damping Factor at 8 Ω :	40

FM TUNER SECTION

Frequency Range:	87.5-108MHz
Usable Sensitivity, IHF	2.0 μ V
Signal-to-Noise Ratio:	70dB
Capture Ratio, IHF:	1.5dB
Alternate Channel Selectivity, IHF:	70dB
Frequency Response:	20Hz-15kHz
Image Rejection Ratio:	55dB

IF Rejection:	80dB
AM Suppression Ratio:	55dB
Harmonic Distortion (400Hz, 100% Mod):	
Mono	0.3%
Stereo	0.5%
Stereo Separation:	40dB
Antenna Impedance:	300/75 Ω

AM TUNER SECTION

Frequency Range:	
LW	145-285kHz
MW	535-1605kHz
SW1	3.95-10.5MHz
SW2	9.5-25.5MHz

GENERAL

Semiconductors:	
Transistors:	48 FET: 3 IC: 4 Diodes: 17
Zener Diodes:	2
Power Source:	110, 130, 220, 240V 50/60Hz
Power Consumption, Max.:	120W
Dimensions (W x D x H):	420 x 300 x 140mm (16 1/2 x 12 x 5 1/2")
Weight:	9.7kg (21.5 lbs.)
<i>Specifications subject to change without notice</i>	

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