

STEREO RECEIVER SA-500

- 35W x 2 (r.m.s., 8 Ω , 0.4%), 2-channel FM/AM/FM stereo receiver
- Pure-complementary symmetry circuit, OCL output section with balanced two power supply circuit
- Coupling condenserless main amplifier
- IC's for IF, equalizer and tone control amplifier circuit to assure uniformity of performance between the set
- 4-gang linear scale tuning condenser for FM
- Equalization amplifier for condenser cartridge
- MFR tone control with switch-selected hinge points
- 2 FET's at FM front end
- Wood cabinet



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SPECIFICATIONS

GENERAL

Semiconductor: 3 IC's, 3 FET's, 51 transistors, 29 diodes

Tuning range: FM; 88–108 MHz
AM; 530–1,605 kHz

Power source: AC 100/120/220/240V, 50/60 Hz

Control: Volume, bass, treble, balance, selector (AM/FM mono/FM auto/phono (MAG-CC)/aux), mode (Rev/Stereo/L/R/L+R), FM muting, tape monitor, AFC, 2-ch/4-ch, loudness, MFR, tuning

Antenna: FM; 300/75Ω terminals
AM; Ferrite core antenna, external antenna terminals

Connector: 13-PIN jack, 2-speaker terminal, 2-AC outlet, DIN connector, FM-AM antenna, headphone jack

Indicator: FM-stereo indicator, FM/AM tuning meter

Accessory circuit: Power transistor and speaker protection circuit breaker, AC circuit breaker

Cabinet: Natural walnut cabinet

Dimensions: 450(W) × 125(H) × 356(D) mm (17⁵/₈" × 4⁷/₈" × 14")

Weight: 9.5 kg (21 lbs.)

Accessory: FM feeder antenna, fuse, polishing cloth, PIN-plug, owner's manual

PERFORMANCE

Audio section

Total music power output (0.4%): 90W (each channel driven at 8Ω)

Total continuous power output (0.4%): 70W (each channel driven at 8Ω)

Harmonic distortion: 0.4% (at rated or less output)

Frequency response: 20–40,000 Hz ± 1 dB (Aux. input)

Power bandwidth: 8–80,000 Hz (IHF, 0.4%)

Signal-to-Noise ratio: PHONO; 65 dB
AUX; 75 dB

Input sensitivity (for rated output): PHONO; 2.5 mV 47 kΩ/CC 40 mV 70 kΩ
TAPE PLAY; 150 mV 100 kΩ
AUX; 150 mV 100 kΩ

Bass control: ± 10 dB (at 100 Hz)

Treble control: ± 10 dB (at 10 kHz)

Damping factor: 20 (at 8Ω)

Speaker impedance: Accepts from 4 to 16Ω

Residual noise: 0.8 mV

Loudness: +10 dB (100 Hz), +4 dB (10 kHz)

Tuner section

FM:

Sensitivity: 1.8 μV (IHF)
1.8 μV (S/N = 30 dB)

Signal-to-Noise ratio: 66 dB

Capture ratio: 1.5 dB (IHF)

Selectivity: 80 dB (IHF)

Image rejection: 80 dB

IF rejection: 80 dB

Spurious rejection: 100 dB

AM supression: 50 dB (IHF)

Frequency response: 20–15,000 Hz ± 1 dB

Harmonic distortion: Mono; 0.2% at 400 Hz, 100% modulation
Stereo; 0.5% at 400 Hz, 100% modulation

FM stereo separation: 35 dB at 1,000 Hz

19 kHz, 38 kHz suppression: 50 dB

AM:

Sensitivity: 15 μV (IHF)

Signal-to-Noise ratio: 45 dB

Image rejection: 70 dB

Selectivity: 30 dB (± 10 kHz)

IF rejection: 70 dB

Over load: 126 dB (μV) at 1,000 kHz

Harmonic distortion: 1%

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