Service Manual

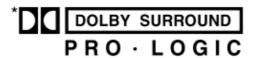
TOP NEXT

Order No. MD0004067C1

A2

Service Manual

AV Control Stereo Receiver



SA-AX540

Color

(K) ... Black Type

P ... U.S.A.

PC ... Canada



FM Tuner Section

87.9-107.9 MHz Frequency range Sensitivity $11.2 \text{ dBf} (2\mu V, IHF'58)$ 50 dB quieting sensitivity MONO 18.3 dBf (4.5μV, IHF'58) $38.3 \; dBf \, (45 \mu V, IHF \, {}^{\backprime}58)$ STEREO Total harmonic distortion MONO 0.2% STEREO 0.3% S/N MONO 73 dB STEREO 67 dB 20 Hz-15 kHz,+1 dB, -2 dB Frequency respons Alternate channel selectivity Capture ratio 1.5 dB Image rejection at 98 MHz 40 dB 75 dB Spurious response rejection at 98 MHz AM suppression 50 dB Stereo separation 40 dB 10 kHz 75Ω (unbalanced) Antenna terminal AM Tuner Section

Frequency range 530-1710 kHz Sensitivity 20 μ V, 330 μ V/m Selectivity 55 dB IF rejection (at 1000 kHz) 50 dB

Video Section

Output voltage at 1 V input (unbalanced)

1±0.1 Vp-p

1.5 Vp-p Maximum input voltage Input/output impedance 75 Ω (unbalanced) Amplifier Section Rated minimum sine wave RMS power output 40 Hz-20 kHz both channels driven 0.8% total harmonic distortion $100~W~per~channel~(8\Omega)$ 1 kHz continuous power output both channels driven 0.05% total harmonic distortion $105~W~per~channel~(8\Omega)$ Total harmonic distortion rated power at 40 Hz-20 kHz $0.8\%~(8\Omega)$ half power at 1 kHz $0.07\%~(8\Omega)$ Power output at the Dolby Pro Logic operation 0.9% at 1 kHz Front $2 \times 100 \text{ W} (8\Omega)$ 100 W (8Ω) Center Surround 2 x 100 W (8Ω) $30~(8\Omega)$ Low frequency damping factor Load impedance Front A or B $4 - 8\Omega$ A and B Center Surround Frequency response RIAA standard curve (30 Hz - 15 kHz)±0.8 dB PHONO CD, TAPE, DVD, VCR, TV 10 Hz-70 kHz,±3 dB Input sensitivity PHONO 0.4 mV (3 mV, IHF'66) CD, TAPE, DVD, VCR, TV 27 mV (200 mV, IHF'66) S/N (IHF A) PHONO 70 dB (80 dB, IHF'66) CD, TAPE, DVD, VCR, TV 75 dB (85 dB, IHF'66) Input impedance PHONO $47~\mathrm{k}\Omega$ CD, TAPE, DVD, VCR, TV $22 \text{ k}\Omega$ Tone controls BASS 50 Hz,+10 to -10 dB TREBLE 20 kHz,+10 to -10 dB 7 - 100 Hz,±3 dB Subwoofer frequency respo Power supply AC 120 V, 60 Hz 450 VA, 350 W Power consumption Dimensions (W x H x D) 430 x 136 x 320.6 mm (16-15/16" x 5-11/32" x 12-5/8") Weight 8.8 kg (19.54 lb.) Power consumption in standby mode:

- 1. Specifications are subject to change without notice./Weights and dimensions are approximate.
- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

Notes:

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10 Schematic Diagram

TOP PREVIOUS NEXT

(All schematic diagrams may be modified at any time with the development of new technology.)

Notes:

S946 Power Switch

S948 Tape Switch

S950 FM Mode Switch

S951 Band Switch

S952 Tuning Down Switch

S953 Tuning Up Switch

S955 Memory Switch

S956 Tape Mode Switch

S958 CD Mode Switch

S976 6CH Switch

S980 Help Switch

S985 Speaker B Switch

S986 Speaker A Switch

The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveformsdepending upon the internal impedance of the tester or the measuring unit.

<> ...FM

() ...AM

Importance safety notice:

Components identifed by mark have special characteristics important for safety. Furthermore,

special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Whenreplacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminium foil.

Put a conductive mat on the work table.

Ground the soldering iron.

Do not touch the pins of IC, LSI or VLSI with fingers directly.



FUSE CALTON

These symbols low ted now the fuse indicates that the first used is a fast operating type. For continued protection against fire harzard, replace that same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

est rapi . ur une protection permanente, n' utili. que des fusibles de même type. Ce dernier . indiqué là qu le présent symbole est apposé.











