

Service Manual

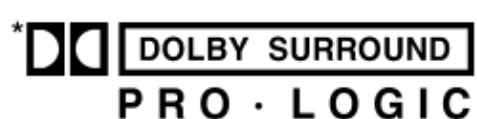
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Order No. MD0004067C1

A2

Service Manual

AV Control Stereo Receiver



SA-AX540

Color

(K) ... Black Type

P ... U.S.A.

PC ... Canada



FM Tuner Section

Frequency range	87.9-107.9 MHz
Sensitivity	11.2 dBf (2 μ V, IHF'58)
50 dB quieting sensitivity	
MONO	18.3 dBf (4.5 μ V, IHF'58)
STEREO	38.3 dBf (45 μ V, IHF'58)
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	73 dB
STEREO	67 dB
Frequency response	20 Hz-15 kHz,+1 dB, -2 dB
Alternate channel selectivity	65 dB
Capture ratio	1.5 dB
Image rejection at 98 MHz	40 dB
Spurious response rejection at 98 MHz	75 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
10 kHz	30 dB
Antenna terminal	75 Ω (unbalanced)

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 \pm 0.1 Vp-p
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Maximum input voltage	1.5 Vp-p
Input/output impedance	75Ω (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 (8Ω)
1 kHz continuous power output both channels driven	
0.05% total harmonic distortion	105 W per channel (8Ω)
Total harmonic distortion	
rated power at 40 Hz-20 kHz	0.8% (8Ω)
half power at 1 kHz	0.07% (8Ω)
Power output at the Dolby Pro Logic operation	
0.9% at 1 kHz	
Front	2 x 100 W (8Ω)
Center	100 W (8Ω)
Surround	2 x 100 W (8Ω)
Low frequency damping factor	30 (8Ω)
Load impedance	
Front	
A or B	4 - 8Ω
A and B	8Ω
Center	8Ω
Surround	8Ω
Frequency response	
PHONO	RIAA standard curve (30 Hz - 15 kHz)±0.8 dB
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 kΩ
CD, TAPE, DVD, VCR, TV	22 kΩ
Tone controls	
BASS	50 Hz,+10 to -10 dB
TREBLE	20 kHz,+10 to -10 dB
Subwoofer frequency response	7 - 100 Hz,±3 dB

General

Power supply	AC 120 V, 60 Hz
Power consumption	450 VA, 350 W
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 W

Notes:

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

* Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

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10 Schematic Diagram

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(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 waveforms depending upon the internal impedance of the tester or the measuring unit.

<> ...FM

() ...AM

Importance safety notice:

Components identified 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. When replacing 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.

