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 dBm (2μV, IHF '58)
- **50 dB quieting sensitivity**
  - MONO: 10.3 dBm (4.5 μV, IHF '58)
  - STEREO: 38.3 dBm (45 μV, 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**: 55 dB
- **IF rejection (at 1000 kHz)**: 50 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**: 75Ω (unbalanced)

AM Tuner Section

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

Video Section

- **Output voltage at 1 V input (unbalanced)**: 1.0±0.1 Vp-p

http://schema99.host.sk/
### Amplifier Section

- **Input/output impedance:** 75Ω (unbalanced)

#### Amplifier Section

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum input voltage</td>
<td>1.5 Vp-p</td>
</tr>
<tr>
<td>Input/output impedance</td>
<td>75Ω (unbalanced)</td>
</tr>
</tbody>
</table>

#### 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 | 105 W per channel (8Ω) |
  - Total harmonic distortion | 0.8% (8Ω) |
  - 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) |
  - Loud 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 |
  - 30 Hz - 70 kHz, ±3 dB |

- **CD, TAPE, DVD, VCR, TV**
  - 10 Hz - 70 kHz, ±3 dB |
  - 10 Hz - 20 kHz, ±3 dB |

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 120 V, 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>450 VA, 350 W</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>430 x 136 x 320.6 mm</td>
</tr>
<tr>
<td>(16-15/16” x 5-11/32” x 12-5/8”)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>8.8 kg (19.54 lb.)</td>
</tr>
<tr>
<td>Power consumption in standby mode</td>
<td>1 W</td>
</tr>
</tbody>
</table>

#### 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.

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10 Schematic Diagram

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

Notes:

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.