

## 500 SERIES

MIXER/ AMPLIFIERS:

A - 503A

A-506A

A-512A

THE TOA 500 SERIES
MIXER/POWER AMPLIFIERS are
ideal for a wide variety of
installed sound applications.
Engineered with proven TOA
quality and reliability, the 500
Series is simple to install and operate, saving you time and money.

The A-503A (30 W), A-506A (60 W), and A-512A (120 W) Mixer/ Amplifiers each have six input channels to accommodate a variety of input sources and a built-in power amplifier with transformer-isolated 25 V, 70 V and 4 ohm speaker outputs.

Pre-Out/Power-In jacks allow connection of external signal processing between the mixer and amplifier sections. Other features include booster and tape outputs for connecting an external mixer, amplifier or recording device. A convenient +24 VDC input allows operation in remote applications.

The TOA 500 Series are UL and cUL Listed and carry a five year warranty.



## **HIGHLIGHTS**

- Integrated Six Channel Mixer/
  Amplifiers for paging, music distribution and messaging-on-hold.
- Proven TOA Quality and Reliability
- Engineered for High Performance with wide frequency response, very low noise and distortion, and excellent output regulation.
- Three Models: A-503A (30 W), A-506A (60 W), A-512A (120 W)
- 25 V, 70 V and 4 Ohm Transformer-Isolated Speaker Outputs with screw terminal connector and protective cover plate.
- Two Low Impedance Microphone Inputs, balanced, transformer-isolated with XLR-F connectors and switchable phantom power.
- Three Auxiliary Line Inputs, unbalanced with RCA connectors
- Hi-Z Mic/Phono Input (switchable), unbalanced with RCA/screw terminal connectors
- Optional Module converts Inputs 3 & 4 to low impedance microphone inputs with XLR-F connectors.

- External Mute Terminals for switch closure override of Inputs 3-5 with adjustable mute depth.
- Individual Channel and Master Volume Controls
- Remote Mic Volume Terminals
  (Input 2) for control with an external
  10k ohm linear-taper potentiometer.
- Bass/Treble Tone Controls
- Insert Jacks for connecting external signal processor.
- Booster and Tape Outputs for connecting external mixer, amplifier or recording device.
- +24 VDC Input for connection to external power source.
- Rear Panel AC Convenience Outlet for powering external equipment.
- Over-current and Thermal Protection Circuitry prevents potential damage from overload, short-circuit and overheating.
- Optional Rack-Mount Kit
- UL / cUL Listed
- Five Year Warranty

### OPTIONAL ACCESSORIES

MB-21B2	Rack-mount Kit
PF-511	Perforated Rack Panel (2 RU)
U-51	Dual Lo-Z Mic Input Module
U-52	Unbalanced-to-Balanced Transformer (600:600 ohms)



# 500 SERIES MIXER/ AMPLIFIERS

#### **APPLICATIONS**

A/V Rentals **Airports** Audio/Visual **Auditoriums / Theatres** Banks Bars / Lounges / Nightclubs **Boardrooms Business Music Conference Facilities Convenience Stores Educational Facilities** Fitness Clubs / Gymnasiums **Hotels / Hospitality Houses of Worship** Industrial / Warehouses Museums Music Distribution Offices **Public Address** Restaurants **Retail Stores** Theme Parks **Training Rooms** 



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## **SPECIFICATIONS**

Tuno	4 shannel miver/amplifier
Туре	6-channel mixer/amplifier
Output Power	<b>A-503A</b> : 30 W RMS; <b>A-506A</b> : 60 W RMS; <b>A-512A</b> : 120 W RMS
Frequency Response	50 - 15k Hz, ±3 dB
Total Harmonic Distortion	0.02% at 1k Hz, rated output
Inputs	INPUT 1: 200 $\Omega$ , 0.3 mV (MIC 1), 15 VDC phantom power INPUT 2: 200 $\Omega$ , 0.3 mV (MIC 2), 15 VDC phantom power INPUT 3: 50k $\Omega$ , 3 mV (MIC 3) / 50k $\Omega$ , 2 mV (MAG. PHONO) INPUT 4: 50k $\Omega$ , 3 mV (MIC 4) / 220k $\Omega$ , 100 mV (AUX 1) INPUT 5: 10k $\Omega$ , 100 mV (AUX 2) AUX 3: 10k $\Omega$ , 100 mV Power amp input: 10k $\Omega$ , 1 V
Outputs	Speaker outputs: 4 $\Omega$ , 25 V & 70 V, balanced Tape output: 4.7k $\Omega$ , 650 mV Booster output and Pre-amp output: 600 $\Omega$ , 1 V
Output Regulation (1k Hz)	Less than 2 dB, no load to full load
<b>Dynamic Range</b> (Band Pass: 20 - 20k Hz, with Tone Controls centered)	All volume controls c.c.w.: 80 dB below rated power MIC 1, 2: 60 dB below rated power (200 $\Omega$ terminated) AUX 2, 3: 70 dB below rated power Mag. phono: 60 dB below rated power
Tone Controls	Bass: ±10 dB at 100 Hz; Treble: ±10 dB at 10k Hz
Power Supply	120 VAC 60 Hz or 24 VDC
Power Consumption	<b>A-503A</b> : 60 W; <b>A-506A</b> : 100 W; <b>A-512A</b> : 180 W
Current Consumption (idling / rated power)	<b>A-503A</b> : AC: 220 mA / 0.9 A, DC: 220 mA / 2.1 A <b>A-506A</b> : AC: 200 mA / 1.6 A, DC: 220 mA / 4.2 A <b>A-512A</b> : AC: 250 mA / 2.8 A, DC: 300 mA / 7.5 A
Color	Black
<b>Dimensions</b> (W x H x D)	16.5" x 3.5" x 11" (420 x 88.5 x 280 mm)
Weight (without modules)	<b>A-503A</b> : 15.7 lbs (7.1 kg) <b>A-506A</b> : 17.9 lbs (8.1 kg) <b>A-512A</b> : 22.9 lbs (10.4 kg)
Other Features	Muting function Remote volume control (MIC 2)

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500 Series Architect and Engineering Specifications 500 Series Installation Manual 500 Series CAD Files