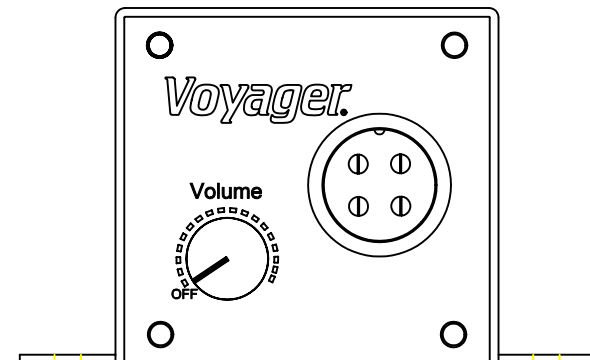


Voyager®

PA500 Owner's/Installation Manual



Universal Public Address System
for use with Vehicle Radios

Revision: B
Date: 5/17/01

Audiovox Specialized Applications, LLC
23319 Cooper Dr.
Elkhart, IN 46514
1-800-688-3135
www.asaelectronics.com

Optional Product List:

Televisions

AVT988 9' Color Television with Remote (12V)	AVT988
AVT1498 13" Color Television with Remote (12V)	AVT1498

VCP and DVD Players for use with TV's and LCD

AVP7000 Video Cassette Player (12V)	AVP7000
AVP7285 Video Cassette Player (12V)	AVP7285
Single Disc DVD Player	DVD2101

Headphones

Wireless Headphones	WHRF01
Headphones with Pivoting Earcup	HP175
Headphones with Volume Control on Cord	HP275
Studio Quality Headphones	HP375

Miscellaneous

Remote Controls	Please Call
Wallmount Family Radio Service with 4 Handsets	FRS4WM
Replacement Handset	FRS100Y
12V Corded Vacuum	VAC21
Rechargeable Flashlight	AVF1
Window Mount TV Antenna	AN350
2-Amp Adapter for use with AVP7000/7285 VCP	0891436
4-Amp Adapter for use with AVT988 9" & AVT1498 13" TV	0891412

Wallmount Radios

AM/FM Wallmount Manual Tune w/Cassette Player	AWM710
AM/FM Wallmount Electronic Tune w/Cassette Player	AWM820
AM/FM Wallmount Stereo w/CD Player	AWM930

Marine

AM/FM Stereo with CD Player	MS1000
AM/FM Weatherband Stereo w/Cassette Player	MS407
AM/FM Stereo w/Cassette Player (Analog Tuner)	MS220
AM/FM Stereo w/Cassette Player (Analog Tuner)	MS306
Weatherproof Housing	MRH211
50 Watt 6 1/2" Speakers (White/Black)	AMS6
30 Watt 5" Speakers (White/Black)	AMS5
30 Watt 4" Speakers	AMS4
Marine Radio Antenna	AN125

To order any of these products, please call 800-688-3135

OR

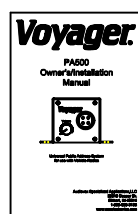
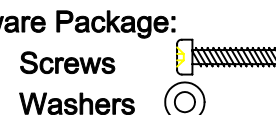
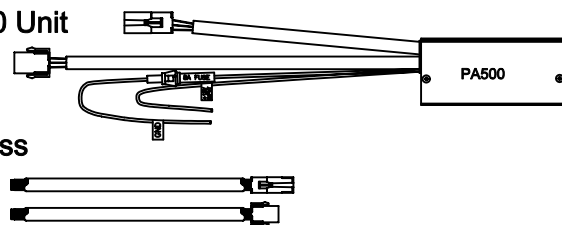
Visit our website at: www.asaelectronics.com

Manual Contents:

	Page
Manual Contents	1
Package Contents	1
Panel Cutout (Optional Installation)	2
Typical Wiring Connections	3
PA500 Wiring	4-5
Optional Flange Mount Installation	6
PA500 Applications	7
Speaker Connections	8-9
Troubleshooting	10
Specifications	11
Optional Product List	12
Installation Notes	13

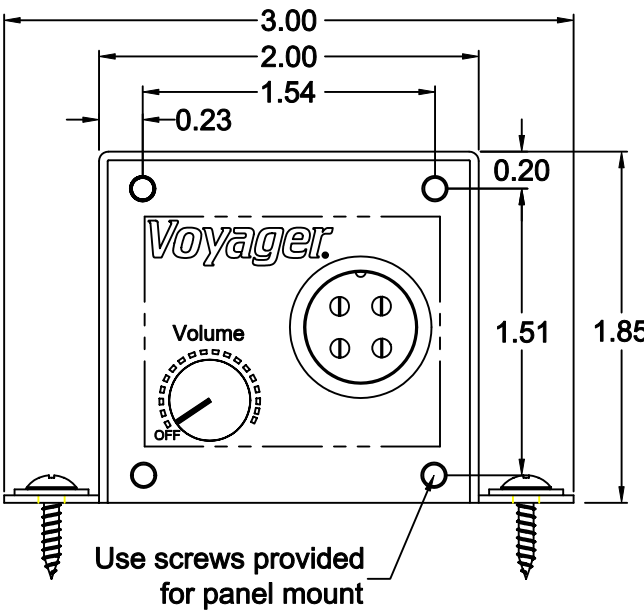
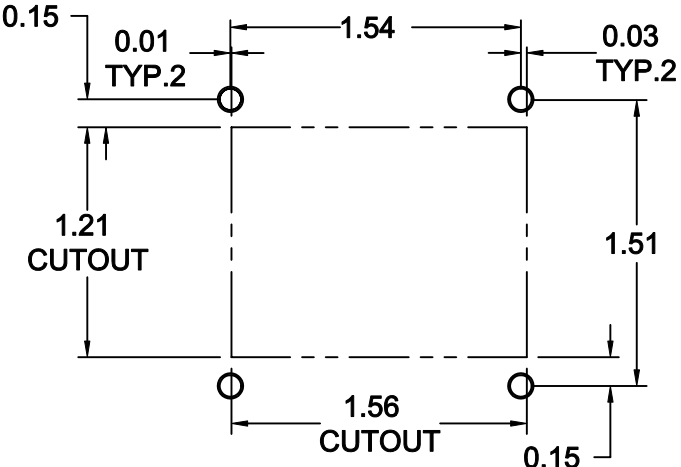
Package Contents:

	Qty.
PA500 Unit	1
Harness	2
Hardware Package:	
Screws	4
Washers	4
Manual	1



Panel Cutout (Optional Installation):

The PA500 may also be mounted through a panel (as shown below). In this method, the microphone volume may be adjusted or turned on/off to meet the operator's preference.



Troubleshooting:

Symptom	Possible Cause	Possible Solution
Has audio from radio but not PA500	<ul style="list-style-type: none"> - PA not turned on - Volume set too low on PA - In-line fuse blown - Input and output wired backwards - Phantom PCB (P/N 8515245) not installed 	<ul style="list-style-type: none"> - Turn PA on - Adjust volume of PA to higher level - Check and replace in-line fuse - Reverse input and output wiring - Need to install Phantom PCB
(With BVMB02) No audio, has popping sound on speakers		
High pitched squeal (feed back)	<ul style="list-style-type: none"> - Volume on PA set too high 	<ul style="list-style-type: none"> - Turn volume on PA down
Hand held MIC keyed and gets feed back	<ul style="list-style-type: none"> - Volume on PA set too high - Volume on MIC set too high 	<ul style="list-style-type: none"> - Turn volume on PA down - Turn volume down on MIC
PA500 will not turn on, (does not have power)	<ul style="list-style-type: none"> - In-line fuse on PA blown 	<ul style="list-style-type: none"> - Replace fuse

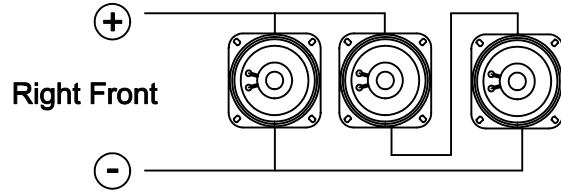
Specifications:

4 Channels	22 Watts per channel, 4 ohm load
Current Draw	7 Amp Max.
Frequency Response	100-10,000
Size	3.08" x 1.85" x 4.0" (W x H x D)
Weight	15 oz.

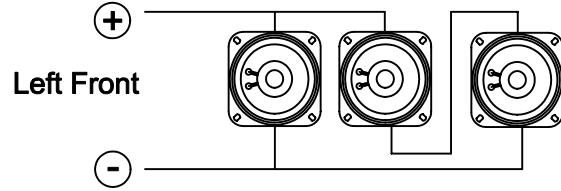
Speaker Connections:

3 Pair- 4 Ohm Speakers

Curb Side
6 Ohm
Total Impedance



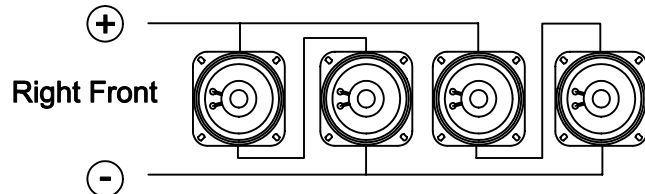
Driver Side
6 Ohm
Total Impedance



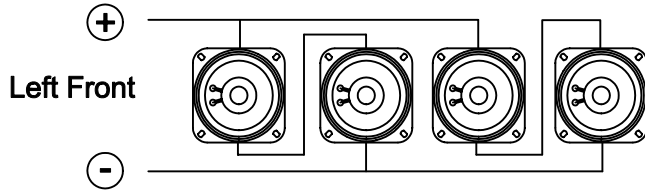
Align Speakers with "+" on top and "-" on bottom as shown

4 Pair- 4 Ohm Speakers

Curb Side
4 Ohm
Total Impedance



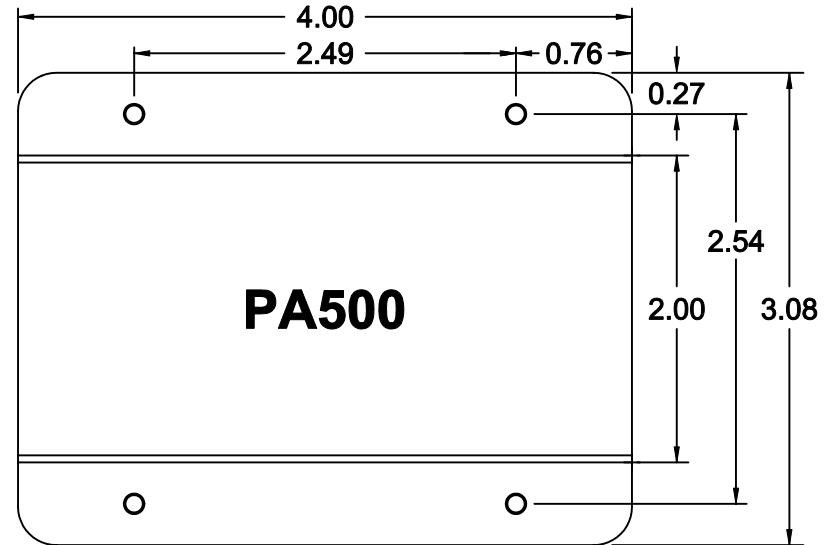
Driver Side
4 Ohm
Total Impedance



Align Speakers with "+" on top and "-" on bottom

Optional Flange Mount Installation:

The PA500 may also be mounted in a "blind" location, using the mounting holes on the flanges. In this case, the microphone volume must be pre-set by the installer prior to the completion of the installation. The 30 ft. microphone extension/adaptor cable (P/N 1401035) or the 36" microphone extension/adaptor cable (P/N 1401040), is to be used to allow connection of a PTT (Push To Talk) type microphone by the operator.



Typical Wiring Connections:

INPUT NOTES:

Wire Radio according to Manufacturer Spec.

PA500 can accept any radio (up to 4 Channels).

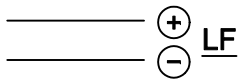
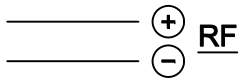
Maintain appropriate load requirements.
(4 ohm minimum suggested)

Radio to PA500

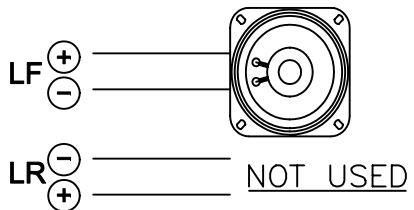
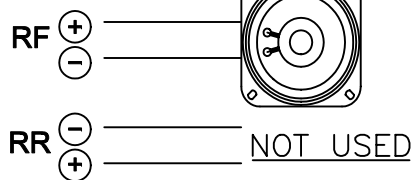
RA RF +	Gray
RA RF -	Gray/Black
RA LF +	White
RA LF -	White/Black
RA RR +	Violet
RA RR -	Violet/Black
RA LR +	Green
RA LR -	Green/Black

Optional Examples:

INPUT 4 Wire



OUTPUT 2 Speaker



PA500 Applications con't.:

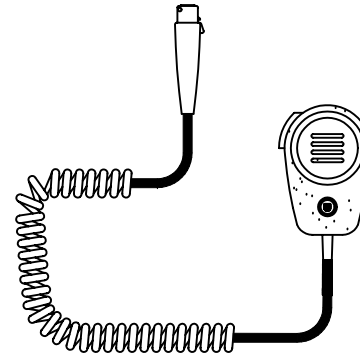
The PA500 may be used with the BVMH22 hand held microphone and either the 30' extension/adapter cable (P/N 1401035) or the 36" extension/ adapter cable(P/N 1401040). If the Boom MIC with Foot Peddle (P/N BVMH02) is used, the Phantom Wiring Harness (P/N 8515245) is required.



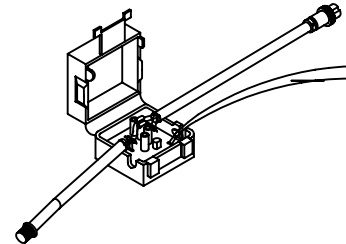
30' Extension/Adapter Cable
P/N 1401035



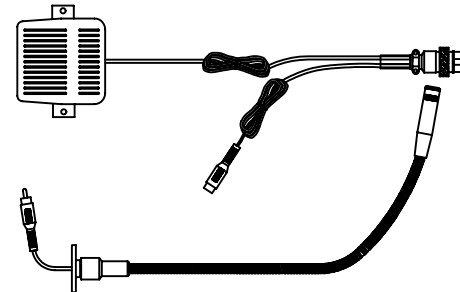
36" Extension/Adapter Cable
P/N 1401040



Hand Held Microphone
P/N BVMH22



Phantom Wiring
P/N 8515245



Boom MIC with Foot Peddle
P/N BVMHB02

PA500 Applications:

The PA500 may be used directly with the following microphones:

BVMH01 Hand Held Microphone

BVMH28 Boom Microphone

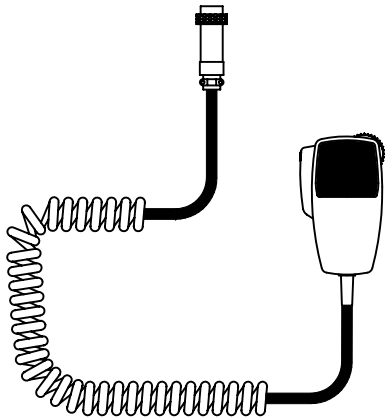
In applications which require remote mounting of the PA500, either the 20 foot extension/adapter (P/N 1401003) or the 36" extension/adapter cable (P/N 1401020) may be used



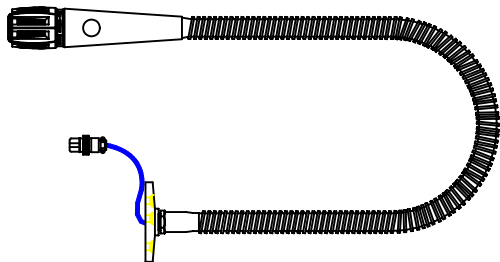
20 Ft Extension Cable
P/N 1401003



36" Extension Cable
P/N 1401020



Hand Held Microphone
P/N BVMH01



28" Boom Microphone
P/N BVMH28

To PA500 Speakers

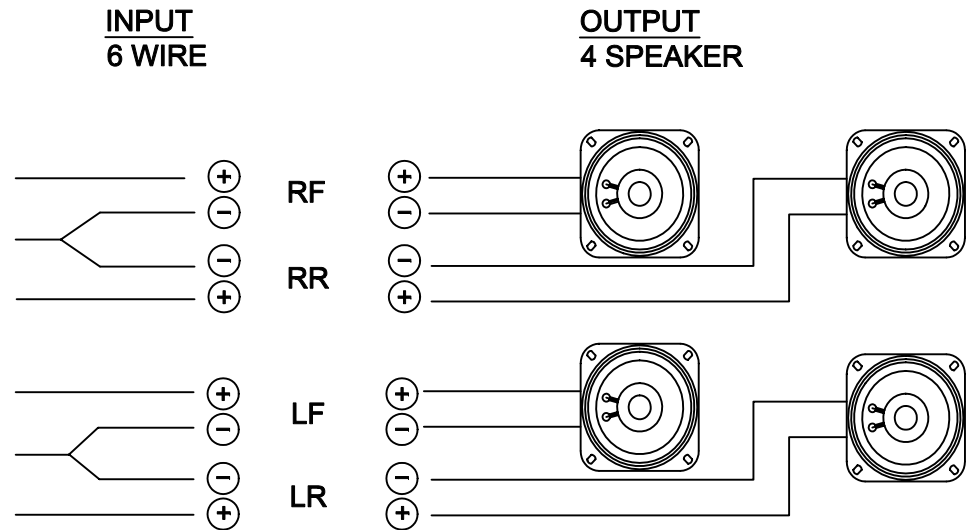
SP RF +
SP RF -
SP LF +
SP LF -
SP RR +
SP RR -
SP LR +
SP LR -

OUTPUT NOTES:

Do not ground any leads.

Do not tie output leads together.

It is permissible to use only Front or Rear Inputs and Outputs in 2 speaker /4 Wire Systems



PA500 Wiring:

Wiring Chart for Radio and Speaker Connections

Wire Color	Speaker Connection
Gray	Right Front +
Gray/Black	Right Front -
White	Left Front +
White/Black	Left Front -
Violet	Right Rear +
Violet/Black	Right Rear -
Green	Left Rear +
Green/Black	Left Rear -

Hardware Kit:

Quantity- Type
 4- M5 x 13mm Philips PH Tapping Screw



4- M3.5 Flat Washer

