PA500
Owner's/Installation Manual

Universal Public Address System
The JENSEN PA500 is a universal public address system that can be utilized as a stand alone PA (when connected to speakers) or operate in conjunction with any existing radio/speaker set up.

The PA500 system amplifier connects in line between the vehicle's radio and the installed speakers. The installed radio will operate normally. When the microphone is activated by the "Push to Talk" (PTT) switch on the microphone, the speakers are electrically disconnected from the radio and engaged with the PA. The microphone triggers activation of the PA through the same speakers (muting/overriding the radio source). There is no need to adjust PA volume at the radio since the PA volume can be set using the volume/gain control on the PA500 itself. If the PA500 is installed in an enclosure the volume level can be pre-set by the installer.
Installation Notes:

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Package Contents:

PA500 Unit

Harness

Hardware Package:

Screws

Washers

Manual
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.

![Diagram of panel cutout](image)

Troubleshooting:

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Has audio from radio but not PA500 | - PA not turned on  
- Volume set too low on PA  
- In-line fuse blown  
- Input and output wired backwards | - Turn PA on  
- Adjust volume of PA to higher level  
- Check and replace in-line fuse  
- Reverse input and output wiring |
| High pitched squeal (feedback) | - Volume on PA set too high | - Turn volume on PA down  
- Turn volume down on MIC |
| Hand held MIC keyed and gets feedback | - Volume on PA set too high  
- Volume on MIC set too high | - Turn volume on PA down  
- Turn volume down on MIC |
| PA500 will not turn on, (does not have power) | - In-line fuse on PA blown | - Replace fuse |

Specifications:

- 4 Channels
- 25 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- 4Ohm 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- 4Ohm Speakers

Curb Side
4 Ohm
Total Impedance

Driver Side
4 Ohm
Total Impedance

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

5 Pair- 4Ohm Speakers

Curb Side
4.8 Ohm
Total Impedance

Driver Side
4.8 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/adapter cable (P/N 1401035) or the 36" microphone extension/adapter cable (P/N 1401040), is to be used to allow connection of a PTT (Push To Talk) type microphone by the operator.
Boom Microphone
P/N JMICBOM

Boom Microphone with Foot Pedal
P/N JMICBOMFP

※ The PA500 is also compatible with older VOYAGER and JENSEN Microphones such as the BVMH01 and BVMH01M
JENSEN PA500 Applications

The JENSEN PA500 is compatible with the following JENSEN microphones:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMICHND</td>
<td>Hand held Microphone</td>
</tr>
<tr>
<td>JMICHST</td>
<td>Hostess Microphone</td>
</tr>
<tr>
<td>JMBOM</td>
<td>Boom Microphone</td>
</tr>
<tr>
<td>JMBOMFP</td>
<td>Boom Microphone with foot pedal</td>
</tr>
</tbody>
</table>

In applications which require remote mounting of the PA500, JENSEN offers both a 3ft (#1401020) and a 20 ft (#1401003) extension/adapter cable.

20 Ft Extension Cable
P/N 1401003

3 Ft Extension Cable
P/N 1401020

Hand Held Microphone
P/N JMICHND

Hostess Microphone
P/N JMICHST

<table>
<thead>
<tr>
<th>To PA500 Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP RF +</td>
</tr>
<tr>
<td>SP LF +</td>
</tr>
<tr>
<td>SP RF -</td>
</tr>
<tr>
<td>SP LF -</td>
</tr>
<tr>
<td>SP RR +</td>
</tr>
<tr>
<td>SP RR -</td>
</tr>
<tr>
<td>SP LR +</td>
</tr>
<tr>
<td>SP LR -</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Wire Color</th>
<th>Speaker Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gray</td>
<td>Right Front +</td>
</tr>
<tr>
<td>Gray/Black</td>
<td>Right Front -</td>
</tr>
<tr>
<td>White</td>
<td>Left Front +</td>
</tr>
<tr>
<td>White/Black</td>
<td>Left Front -</td>
</tr>
<tr>
<td>Violet</td>
<td>Right Rear +</td>
</tr>
<tr>
<td>Violet/Black</td>
<td>Right Rear -</td>
</tr>
<tr>
<td>Green</td>
<td>Left Rear +</td>
</tr>
<tr>
<td>Green/Black</td>
<td>Left Rear -</td>
</tr>
</tbody>
</table>

**Hardware Kit:**

Quantity - Type

4- M5 x 13mm Phillips PH Tapping Screw

4- M3.5 Flat Washer

Input 14”

Output 14”

PA500

Approx. 9”

Approx. 4.0”

Approx. 15”

Approx. 10.25”

1.85”