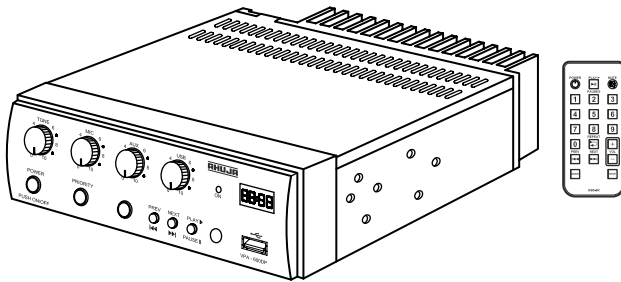


AHUJA®**PA MOBILE AMPLIFIER**
50W RMS/60W Max.

VPA-600DP



VPA-600DP is a compact 50 Watts RMS PA Mobile Amplifier designed for use in luxury coaches, tourist buses, police patrol vehicles, ambulances, etc, and for a variety of announcement, publicity and electioneering purposes.

Features

- Easy to Install in any vehicle.
- Amplifier complies in size with relevant DIN standard.
- Built-in MP3 player with remote control.
- Priority of Microphone over other input sources.
- 100V Output for use with LMT.

-
- ◆ Thank you for purchasing the AHUJA PA Mobile Amplifier.
 - ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new AHUJA PA Mobile Amplifier.
 - ◆ Please retain this manual for future reference.

• Safety Instructions

Read the Instructions: Please read all the instructions in this section carefully before installation or use of the product. All the safety instructions must be followed.

Retain the Instructions: Please retain this Instruction Manual for future reference.



This symbol, wherever it appears, alerts you to the presence of uninsulated hazardous voltage that may be sufficient to constitute a risk of electric shock. External wiring to any terminal marked with this symbol must be done by a trained and instructed person only.



This symbol, wherever it appears adjacent to a component, alerts you that the concerned component can only be replaced by another of the exact same specifications.

WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.
- Before replacing any fuse, make sure the set is switched off and disconnected from the power source. Replace a fuse only with another of exactly same specification.

CAUTIONS

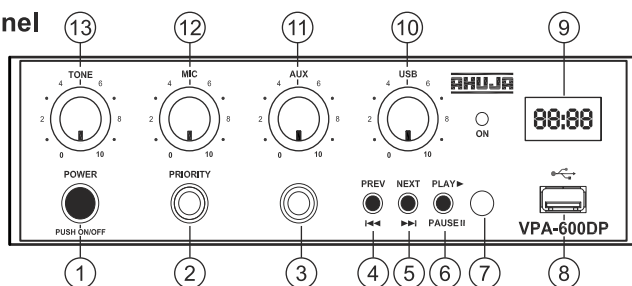
Water & Moisture: To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set.

Power Source: Use only with 12V DC battery. This set uses negative ground system. Connect battery positive to the red wire shown on page 4, and battery negative to the black wire.

Stability: Fix and clamp the set securely before use.

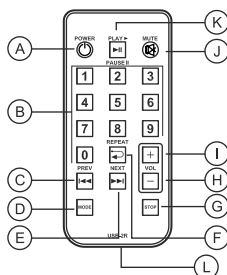
• Front Panel Controls & Features

Front Panel

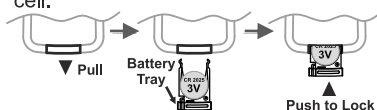


1. **Power ON/OFF Switch:** Push to switch ON. Push again to switch OFF.
2. **MIC Input Jack Socket**
3. **AUX Input Jack:** This input accepts signal from audio output of tuner pre amplifier and video player.
(S.No. 4 to 10 features applies to MP3 Player)
4. **PREV** ◀◀: To select the previous track.
5. **NEXT** ▶▶: To select the next track.
6. **PLAY ▶ / PAUSE II**: Press Play/Pause once to Pause when music is already playing. Press Play/Pause again to resume playing.
7. **IR SENSOR:** for operating remote control.
8. **USB SOCKET:** Insert the USB drive here. Ensure that the USB drive is inserted in the correct direction.
9. **DISPLAY:** Displays the track played.
10. **USB (MP3 Player) Volume Control**
11. **AUX Volume Control**
12. **MIC Volume Control**
13. **Tone Control**

Remote Control

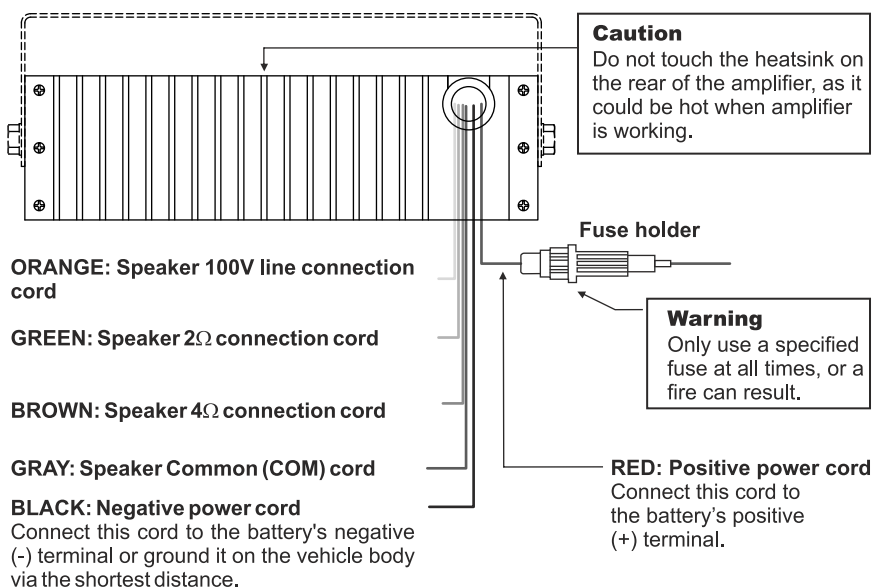


- A. **Power:** Press once to switch off MP3 digital player, press again to switch ON.
- B. **Number key 0 to 9.** To select the track number to be played.
- C. **◀◀:** To select the previous track.
- D. **MODE:** not in use.
- E. **▶▶:** Press to select the next track.
- F. **↻** Press once to repeat the song being played. Press again to repeat all the songs.
- G. **STOP:** Press to stop the track being played.
- H. **Vol-:** Press to decrease the volume of Digital Player.
- I. **Vol+:** Press to increase the volume of Digital Player.
- J. **MUTE:** Press once to mute the sound, press again to resume the sound.
- K. **▶▶ PAUSE:** Press Play/Pause once to Pause when music is already playing. Press Play/Pause again to resume playing.
- L. **Battery Replacement:** Pull out the battery tray and replace the battery with positive electrode facing upwards as shown in fig. below. Push the battery compartment back to the close position. Use CR2025 or equivalent lithium coin cell.



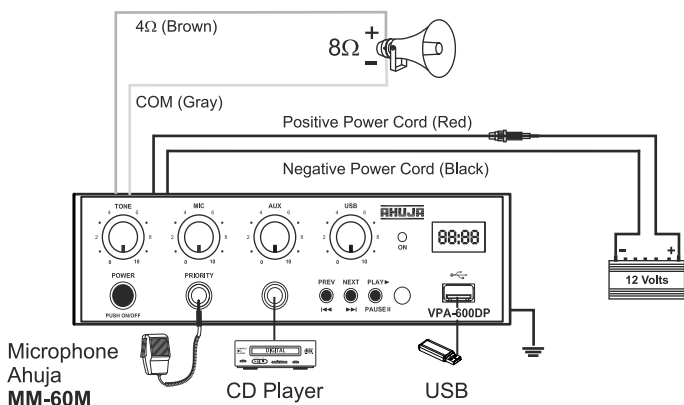
• Rear Panel Controls & Features

Rear Panel



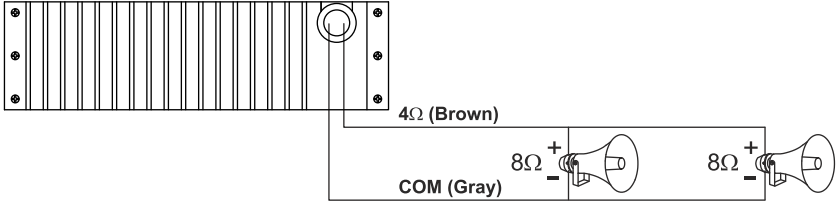
• Interconnection

- 1. Installation of only one horn speaker of 8Ω impedance:** When only one horn speaker like Ahuja SUH-25/UHC-25 with 8Ω impedance is to be connected, it should be wired to COM and 4Ω wires (gray and brown), which is underloading condition. Power output delivered to the horn speaker will be approximately 25 watts.

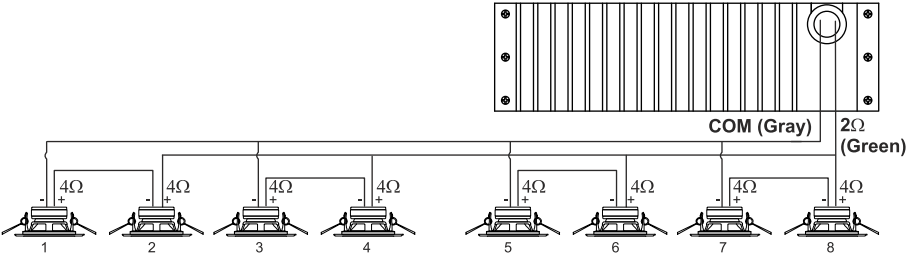


• **Interconnections**

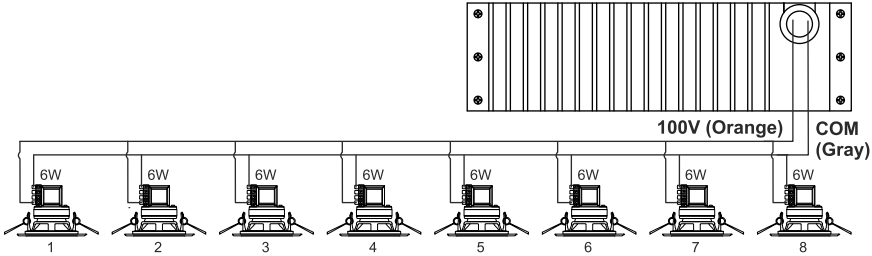
2. Installation of Two Horn Speakers of 8Ω impedance each: These must be connected in parallel as shown below and connected to COM & 4Ω wire (gray and brown) of the amplifier. The horn speakers should be of power handling capacity 25W or more.



3. Installation of 8 nos. speakers of 4 ohms impedance each without line matching transformer: The speakers should be connected to the COM and 2Ω wires (gray and green) in series-parallel combination as shown below.



Installation of 8 nos. Ahuja PF-3B03T speakers on 100V line: All the speakers should be wired parallel using 6W or lower tap and connected to COM and 100V line wire (gray and orange).



• Operating Instructions

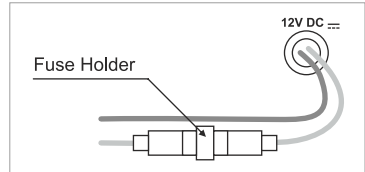
USB Operation

1. Insert USB in the socket & it starts playing automatically from the 1st track.
2. Use PREV/NEXT keys on the player or select the desired track by pressing the key pad on remote control.
3. The track played is seen on the display.

AUX Input: Connect audio output of tuner pre amp or video player to this input..

Microphone Operation: When micro-phone is used the other input signals from AUX & USB player are automatically muted, till the desired announcements is over.

Fuse Replacement: A 12 Amp (T12AL) fuse has been provided with in line fuse holder to protect the amplifier against short circuit. In case fuse blows replace one with same rating.

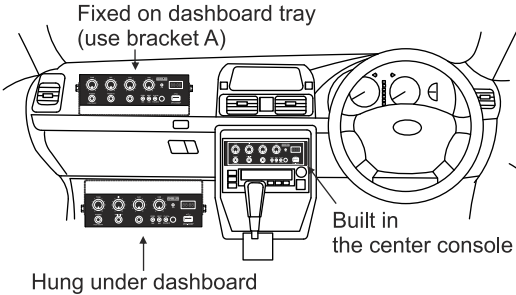


PRECAUTIONS

- Mount the amplifier securely inside the automobile.
- The amplifier should be mounted in a dry and well ventilated place.
- The matching of speaker impedance with the amplifier should be proper. If 4ohm tap on the amplifier is used, resultant impedance of the speakers must not be less than 4ohms, otherwise it will overload the amplifier. If speakers with line matching transformer are used on 100V output terminal, the combined load of all the speakers must not exceed 50 watts.
- **Proper Selection of Output Terminals:** When 100V line is being used, do not connect speakers to 2ohm, 4ohm taps. Similarly do not connect speakers to 100V line when 2ohm or 4ohm taps being used.
- Ensure correct polarity of the battery.
- Use special care in connecting and laying the connecting wires. These can pose serious hazards if the insulation is damaged or excessively peeled, resulting in electric shocks or short circuit through bare wire contact with the vehicle body.
- Install an appropriate safeguard (fuse, etc.) close to the battery to ensure connection safety.
- This equipment uses negative ground system; connect the power wires in correct polarities, battery positive with red and battery negative with black wire. Reverse connection may damage the amplifier and also vehicle parts..

This amplifier complies in size with the DIN standards which are broadly adopted as a standard size for car audio. The amplifier may be installed at different places in different vehicles. As shown Fig. 1 and 2, it can be incorporated in the center console or mounted on a dashboard tray or hung under the dashboard using a bracket.

Fig. 1 Where to mount the Amplifier



WARNING

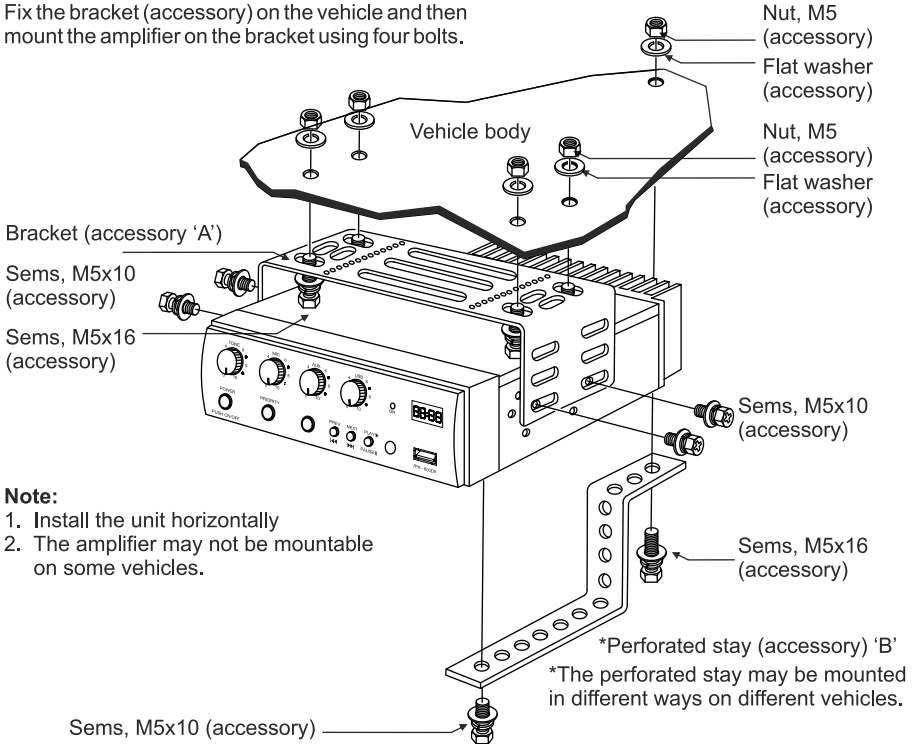
Do not mount the amplifier or lay its cords close to the brake pedal or where it may hinder the driver's sight or other operations. Doing so may induce a traffic accident.

WARNING

Do not mount the amplifier or install its wires or cords close to an air bag, whose emergency function could be hampered causing serious results.

Fig. 2 How to mount the Amplifier

Fix the bracket (accessory) on the vehicle and then mount the amplifier on the bracket using four bolts.



Note:

1. Install the unit horizontally
2. The amplifier may not be mountable on some vehicles.

CAUTION

Avoid using bolts other than those specified for the sides and underside of the amplifier body. Doing so may damage some internal parts of the amplifier.

• Specifications

Power Output	60 Watts RMS Max. 50 Watts RMS at 10% THD 45 Watts RMS at 5% THD (Rated)
Input / Sensitivities	1 × Mic 1mV/4.7kΩ 1 × Aux 100mV/20kΩ USB-A MP3 Digital Player with Remote Control
Tone Control	0 to -10dB at 10kHz
Frequency Response	150Hz-15,000Hz ±3dB
Signal to Noise Ratio	60dB
Output Impedance	2Ω, 4Ω and 100V Line
Power Supply	Car Battery Nominal Voltage 12V-13.1V DC
Average Battery Consumption	5.0 Amps
Protection	12 Amp. In-line Fuse (T12AL)
Dimension	W178 × H50 × D205 mm
Weight	1.7kg

Design and Specifications are subject to change without notice owing to continuous product up-gradation. Technical specifications are subject to production tolerances.

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