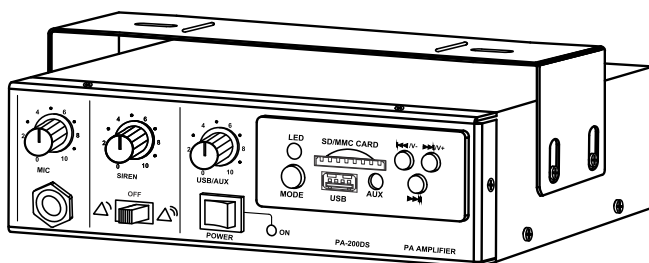


PA Amplifier

20W RMS / 30W Max.

PA-200DS

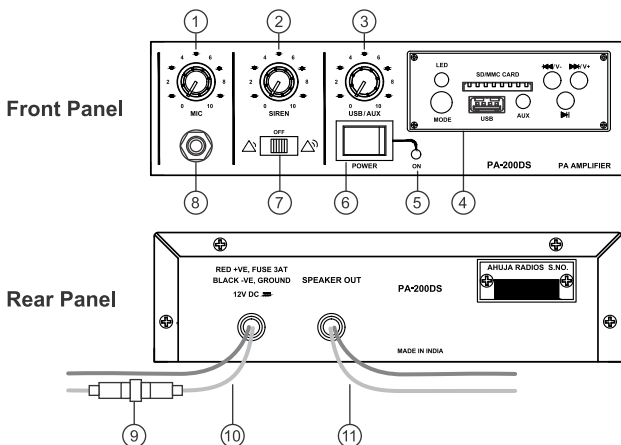


FEATURES

- Compact & rugged high performance vehicle amplifier in single DIN size.
- High efficiency Class D amplification consumes less battery power.
- One MIC input with volume control.
- Digital Player with AUX input and a volume control.
- Built-in two siren tones selectable through a siren ON/OFF switch.
- Dedicated SIREN volume control has been provided.
- In-line fuse holder available on the rear panel.
- Speaker output cable on the rear panel, for connecting speakers with $4\Omega/8\Omega$ impedance.
- Durable mounting clamp is provided alongwith, for ease of installation.

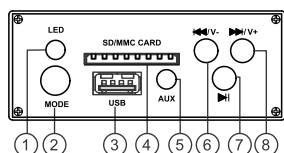
-
- ◆ Thank you for purchasing the PA Amplifier.
 - ◆ Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance from your new PA Amplifier.
 - ◆ Please retain this manual for future reference.

• Front & Rear Panel Controls & Features



1. **MIC Volume Control**
2. **SIREN Volume Control**
3. **USB/AUX Volume Control**
4. **DIGITAL PLAYER**
5. **POWER LED:** This LED glows when the amplifier is switched 'ON'.
6. **POWER ON/OFF Switch:** Push the right part of the knob to switch the amplifier ON. Push the left part of the knob to switch the amplifier OFF.
7. **SIREN Switch:** For selecting between the two tones or switching OFF siren signal.
8. **MIC Input Jack Socket**
9. **In-line Fuse holder with Fuse:** Fuse Rating 3Amp, 250V (T 3AL).
10. **Battery Connection Wires:** Red Wire fitted with In-line fuse for connection to positive (+) terminal. Black wire connection to negative (-) terminal.
11. **Speaker Connection wires:** For connecting speaker with 4Ω or 8Ω impedance. Connect Blue wire to positive (+) terminal and Grey wire to negative (-) terminal of the speaker.

• Digital Player

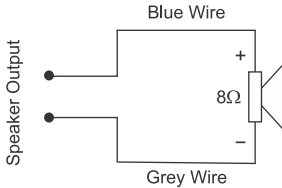


1. **Digital Player 'ON' LED**
2. **Mode Button:** Toggles to select USB input /SD MMC Card input /AUX input.
3. **USB Socket:** Insert the USB device here. Ensure that the USB device is inserted in the correct direction.
4. **SD/MMC Card Socket:** Insert the SD/MMC card to ensure that the card is inserted in the correct direction.
5. **AUX input:** For connecting signal from mobile phone, laptop, CD player, audio mixer etc. through a 3.5mm stereo jack plug only.
6. **⏮ /-:** Short press to select the previous track. Long press to decrease the volume level.
7. **⏸ :** Press once to toggle between PLAY & PAUSE mode.
8. **⏭ /+:** Short press to select the next track. Long press to increase the volume level.

• Operating Instruction

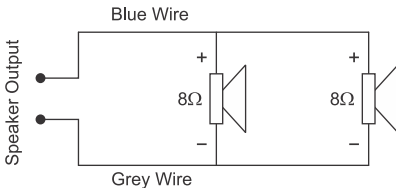
When one horn speaker with 8Ω impedance is to be installed:

When a horn speaker like EHC-10 / SUH-15 with 8Ω impedance is connected then power output delivered to the horn speaker will not exceed 15 watts, which is well within the safe handling capacity of the unit horn. See sketch below:



Installing two horn speakers (each having 8Ω impedance):

These must be connected in parallel as shown in the sketch below. The resultant impedance will be 4Ω . When connected to speaker output of PA-200DS, it will deliver upto 30 Watts power. See sketch below:

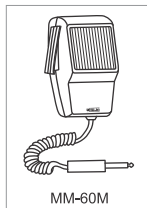


$$\text{Resultant impedance} = 8\Omega / 2 = 4\Omega$$

Microphone Operation:

All Ahuja microphones can be used with PA-200DS. For crowd control and operation in noisy surroundings Ahuja MM-60M is the most suitable and is recommended. It has following special features:

1. It gives distinctive clean sound even when used in close-to-lip position, which is an important requirement in noisy surroundings.



2. The howling and feedback is suppressed.
3. It is provided with press-to-talk switch.

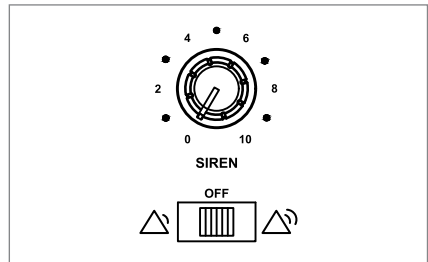
Siren Section:

Two tone siren has been provided. The two tones are wailing (Δ) and yelping (Δ). A selector switch has been provided to select the desired tone of the siren.

Siren Operation:

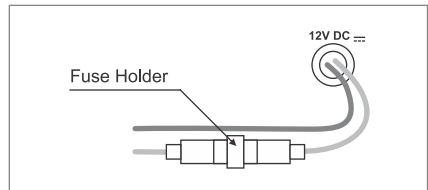
To activate the siren:

1. Select the siren tone using the SIREN selector switch.
2. Adjust the output level through SIREN volume control.
3. Keep the siren switch in OFF position, whenever siren function is not in use.



Fuse Replacement:

A 3 Amp fuse has been provided with in-line fuse holder to protect the amplifier against



short circuit. In case fuse blows, replace one with the same rating.

• 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

- 1 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.
- 1 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 and battery negative to the black wire.

Stability: Fix and clamp the set securely before use.

• Specifications

Power Output	30 Watts RMS Max., 20 Watts RMS at 10% THD,
Input Channels	1 × MIC 5mV/4.7kΩ, 1 × AUX 200mV
Digital Player	MP3 Player with USB & SD/MMC Card Reader, Ø3.5mm AUX Input
Frequency Response	250-10,000Hz ±3dB
Signal to Noise Ratio	60dB
Speaker Outputs	4Ω / 20W; 8Ω / 12W
Sirens	Built-in two tones available i.e. Wailing & Yelping, selectable through a siren ON/OFF switch.
Power Supply	12V DC (Car Battery)
Protection	DC: Fuse 3Amp. (T 3A L)
Dimensions	W178 × H52 × D157 mm
Weight	1.10kg approx. (with mounting clamp)