

[Manuals.plus](#) /

› [YHAAVALE](#) /

› YHAAVALE CJB200P 200W Police Siren and PA System User Manual

YHAAVALE CJB200P

YHAAVALE CJB200P 200W Police Siren and PA System User Manual

Model: CJB200P

1. INTRODUCTION

The YHAAVALE CJB200P is a multi-function 200W siren and public address (PA) system designed for emergency and public service vehicles. This system integrates a powerful amplifier, a durable loudspeaker, and a wired handheld microphone, offering various siren tones and PA capabilities. It is suitable for police, fire, ambulance, traffic, engineering, volunteer, and private vehicle applications requiring an audio warning device or PA system.



Image 1.1: Overview of the YHAAVALE CJB200P system components, including the amplifier, speaker, and microphone.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Installation should be performed by qualified personnel to ensure proper wiring and functionality, and to prevent damage to the vehicle or product.
- **Power Source:** Connect only to a DC 12V power source. Incorrect voltage can damage the unit.
- **Wiring:** Ensure all wiring is correctly connected according to the wiring diagram. Incorrect wiring can lead to malfunction or electrical hazards.
- **Speaker Placement:** Mount the speaker securely in a location that allows for clear sound projection and is protected from excessive moisture and physical damage.
- **Volume Control:** Use the siren and PA system responsibly. Excessive volume can cause hearing damage or be a nuisance.
- **Auxiliary Switches:** Each auxiliary switch is fused with a 20 amp AGC fuse. Do not exceed the rated current for connected devices.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

Packing list



Image 3.1: Visual representation of all components included in the YHAAVALE CJB200P package.

1. Siren Loudspeaker (1 unit)
2. Amplifier Control Box (1 unit)
3. Wired Handheld Microphone (1 unit)
4. Microphone Mounting Bracket (1 unit)
5. Speaker Mounting Bracket (1 unit)
6. Wiring Harness (1 unit)
7. Mounting Hardware (Screws, Nuts, Washers)
8. Electrical Tape (2 rolls)

4. PRODUCT OVERVIEW

The CJB200P system consists of three primary components: the amplifier control box, the loudspeaker, and the handheld microphone.

MULTI-FUNCTION SIREN CONTROL BOX

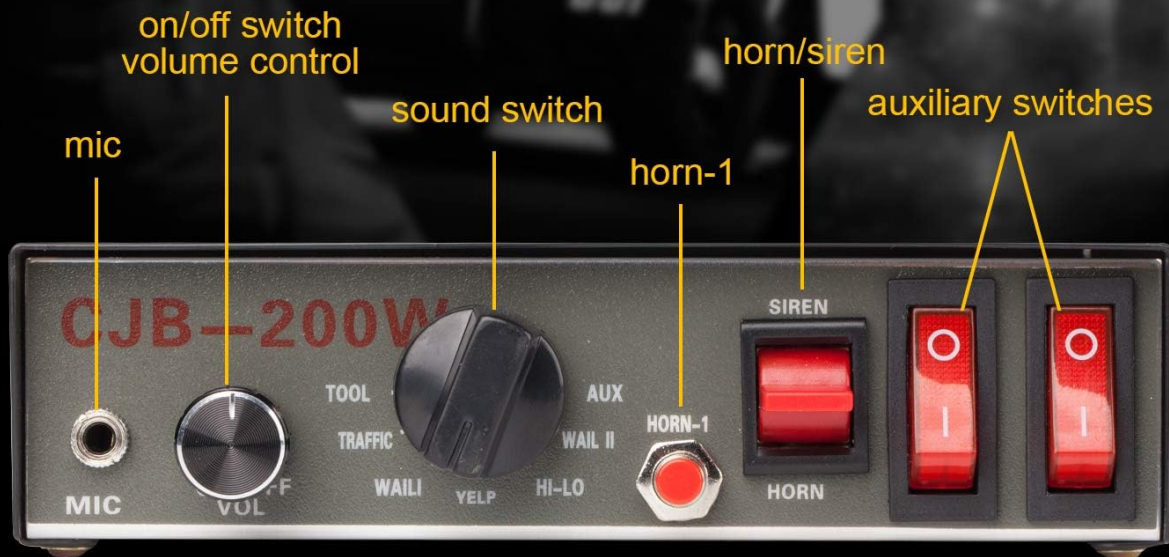


Image 4.1: Front panel of the amplifier control box with labeled controls.

- **MIC Input:** Port for connecting the handheld microphone.
- **VOL (Volume) Knob:** Adjusts the microphone and siren volume.
- **Sound Switch:** Rotary switch to select between 8 different siren tones (WAIL-1, WAIL-2, YELP, TOOL, HI-LO, TRAFFIC, AUX, HORN-1).
- **HORN-1 Button:** Activates a specific horn sound.
- **SIREN/HORN Switch:** Toggles between siren mode and horn mode.
- **Auxiliary Switches (2):** Independent switches to control external devices such as strobe lights. Each is protected by a 20A AGC fuse.

4.2 Loudspeaker

loud and clear



loudspeaker
118~124dB

160dB
Jet Engine

140dB
F1 Race Car

120dB
Chainsaw

100dB
Motorcycle

Image 4.2: The loudspeaker, capable of producing sound levels between 118-124dB.

The square-mouth plastic speaker is designed for high output, providing clear and powerful audio for both siren tones and PA announcements. It typically produces sound levels between 118-124dB.

4.3 Handheld Microphone

Handheld Microphone

Pre-wired push to talk microphone.
Push to talk microphone which overrides any activated
warning tone when in use.



Image 4.3: The wired handheld microphone for public address functionality.

The pre-wired push-to-talk microphone allows for clear voice amplification through the loudspeaker. Activating the push-to-talk button overrides any currently active warning tone.

5. SETUP AND INSTALLATION

Careful installation is crucial for optimal performance and safety. It is recommended that installation be performed by a professional.

5.1 Mounting the Loudspeaker

1. Select a suitable location for the loudspeaker, typically in the engine bay or behind the grille, ensuring it is protected from direct water spray and road debris.

2. Use the provided speaker mounting bracket and hardware to securely attach the speaker to a stable surface in the chosen location. Ensure the speaker is aimed for optimal sound projection.

5.2 Mounting the Amplifier Control Box

1. Choose a convenient and accessible location inside the vehicle cabin for the amplifier control box, such as under the dashboard or in the center console.
2. Secure the control box using appropriate mounting hardware. Ensure it does not obstruct airbags or other safety features.

5.3 Wiring Connections



Image 5.1: Wiring diagram illustrating connections for power and auxiliary lights.

- **Power Connection:**
 - Connect the **Red wire** from the wiring harness to the vehicle's **positive (+) 12V DC** power source (e.g., battery terminal or fused accessory circuit).
 - Connect the **Black wire** from the wiring harness to the vehicle's **negative (-) ground** point (e.g., chassis ground).
 - Ensure all power connections are secure and properly insulated.
- **Loudspeaker Connection:** Connect the speaker wires from the loudspeaker to the corresponding output terminals on the amplifier control box. Observe polarity if indicated.
- **Microphone Connection:** Plug the handheld microphone's jack into the 'MIC' input port on the front of the amplifier control box.
- **Auxiliary Light Connections:** The two **Yellow wires** from the wiring harness are for connecting two external lights (e.g., strobe lights). Connect one yellow wire to the positive terminal of each light. The negative terminals of the lights should be connected to a common ground.

After all connections are made, double-check all wiring for correctness and security before applying power.

6. OPERATION

6.1 Power On/Off and Volume Control

- Turn the 'VOL' knob clockwise to power on the unit and increase volume. Turn counter-clockwise to decrease volume and power off.

6.2 Siren Tones

- Rotate the 'Sound Switch' knob to select one of the 8 available siren tones (WAIL-1, WAIL-2, YELP, TOOL, HI-LO, TRAFFIC, AUX, HORN-1).
- Flip the 'SIREN/HORN' switch to the 'SIREN' position to activate the selected siren tone.
- Press the 'HORN-1' button for an additional horn sound.

6.3 Public Address (PA) System

- Ensure the handheld microphone is plugged into the 'MIC' input.
- Press and hold the push-to-talk button on the microphone to speak. Your voice will be amplified through the loudspeaker.
- Speaking through the microphone will temporarily override any active siren tone.

6.4 Auxiliary Light Control

Auxiliary switches

The auxiliary switches are meant to be used to power other external device and appliances on the vehicle, such as strobe lights. Each auxiliary switch is fused with a 20 amp AGC fuse.



Image 6.1: The two auxiliary switches on the control box for external light control.

- Use the two independent auxiliary switches on the control box to turn connected external lights (e.g., strobe lights) on or off.

7. MAINTENANCE

- **Regular Inspection:** Periodically check all wiring connections for signs of wear, corrosion, or looseness. Ensure all mounting hardware is secure.
- **Cleaning:** Keep the control box and microphone clean and free of dust and debris. Use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Fuse Replacement:** If an auxiliary light stops working, check the corresponding 20A AGC fuse. Replace with a fuse of the same rating if blown.
- **Environmental Protection:** While the loudspeaker is designed for outdoor use, avoid prolonged exposure to extreme weather conditions if possible. Ensure the control box remains dry.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the unit	Loose power connection, blown fuse, incorrect wiring.	Check positive and negative power connections. Inspect vehicle's fuse box for blown fuses. Verify wiring against the installation diagram.
Siren/PA not working, but unit has power	Loose speaker connection, faulty speaker, volume too low, microphone not plugged in or faulty.	Check speaker wiring. Increase volume. Ensure microphone is securely plugged in. Test microphone functionality.
Siren sounds distorted or weak	Low voltage, damaged speaker, incorrect impedance.	Check vehicle's battery voltage. Inspect speaker for physical damage. Ensure speaker impedance matches amplifier requirements.
Microphone audio is unclear or muffled	Faulty microphone, loose connection, volume settings.	Ensure microphone is fully plugged in. Adjust volume. Test with another microphone if available.
Auxiliary lights not working	Blown 20A AGC fuse, loose wiring, faulty light.	Check and replace the 20A AGC fuse for the specific auxiliary switch. Verify wiring to the light. Test the light independently.

9. SPECIFICATIONS

- **Model:** CJB200P
- **Power Output:** 200W
- **Operating Voltage:** DC 12V
- **Siren Tones:** 8 (WAIL-1, WAIL-2, YELP, TOOL, HI-LO, TRAFFIC, AUX, HORN-1)
- **Control Method:** Manual (via control box and microphone)
- **Loudspeaker Sound Level:** 118-124 dB
- **Auxiliary Switch Fuses:** 20A AGC (each)
- **Item Weight:** Approximately 1 pound (0.45 kg)
- **Package Dimensions:** Approximately 10.31 x 9.92 x 7.76 inches (26.19 x 25.19 x 19.71 cm)
- **Manufacturer:** YHAAVALE

- **Item Model Number:** YHUS-CJB100P0011
- **UPC:** 605826041260

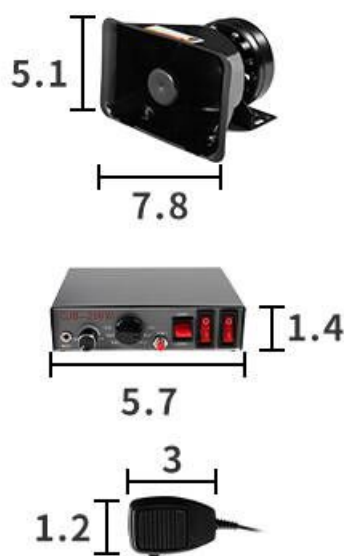


Image 9.1: Approximate dimensions of the loudspeaker, control box, and microphone in inches.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact YHAAVALE customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question