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BooYu Y612

BooYu Emergency Slim Speaker Horn Siren PA System (Model Y612) User Manual

This manual provides comprehensive instructions for the installation, operation, and maintenance of your BooYu Emergency Slim Speaker Horn Siren PA System, Model Y612. Please read thoroughly before use.

Important Safety Information

Electrical Safety: Ensure all wiring is correctly connected to a 12V DC power source. Incorrect wiring can cause damage to the unit or vehicle electrical system. Always disconnect the vehicle's battery before installation.
Professional Installation: If you are unsure about the installation process, seek assistance from a qualified professional.
Sound Levels: This system produces high decibel sound levels (120-135dB). Prolonged exposure to loud sounds can cause hearing damage. Use responsibly and avoid directing sound towards individuals at close range.
Legal Compliance: Be aware of and comply with all local and national laws regarding the use of emergency sirens and PA systems on vehicles.

Package Contents

Verify that all components are present before beginning installation:

- Horn Speaker
- Microphone Remote Control
- Microphone Fixed Bracket
- Wiring Harness



Image showing all included components: the main control unit, the ultra-thin speaker, the handheld microphone remote, the microphone fixed bracket, and the wiring harness.

Specifications

Feature	Detail
Brand	BooYu
Model Number	Y612
Power Output	200W
Sound Level	120-135 dB
Voltage	12V DC
Material	Aluminum (Corrosion-resistant body)

Feature	Detail
Speaker Dimensions	5-5/8" L x 5-1/2" H x 2-1/8" W (Ultra-Thin)
Additional Switches	2 x 10A switches
Waterproof Rating	IP66



Diagram illustrating the dimensions of the siren speaker and the control unit.



Chart comparing the sound output of the siren speaker (125-135 dB) to other common sounds like jet engines, race cars, chainsaws, and city traffic.

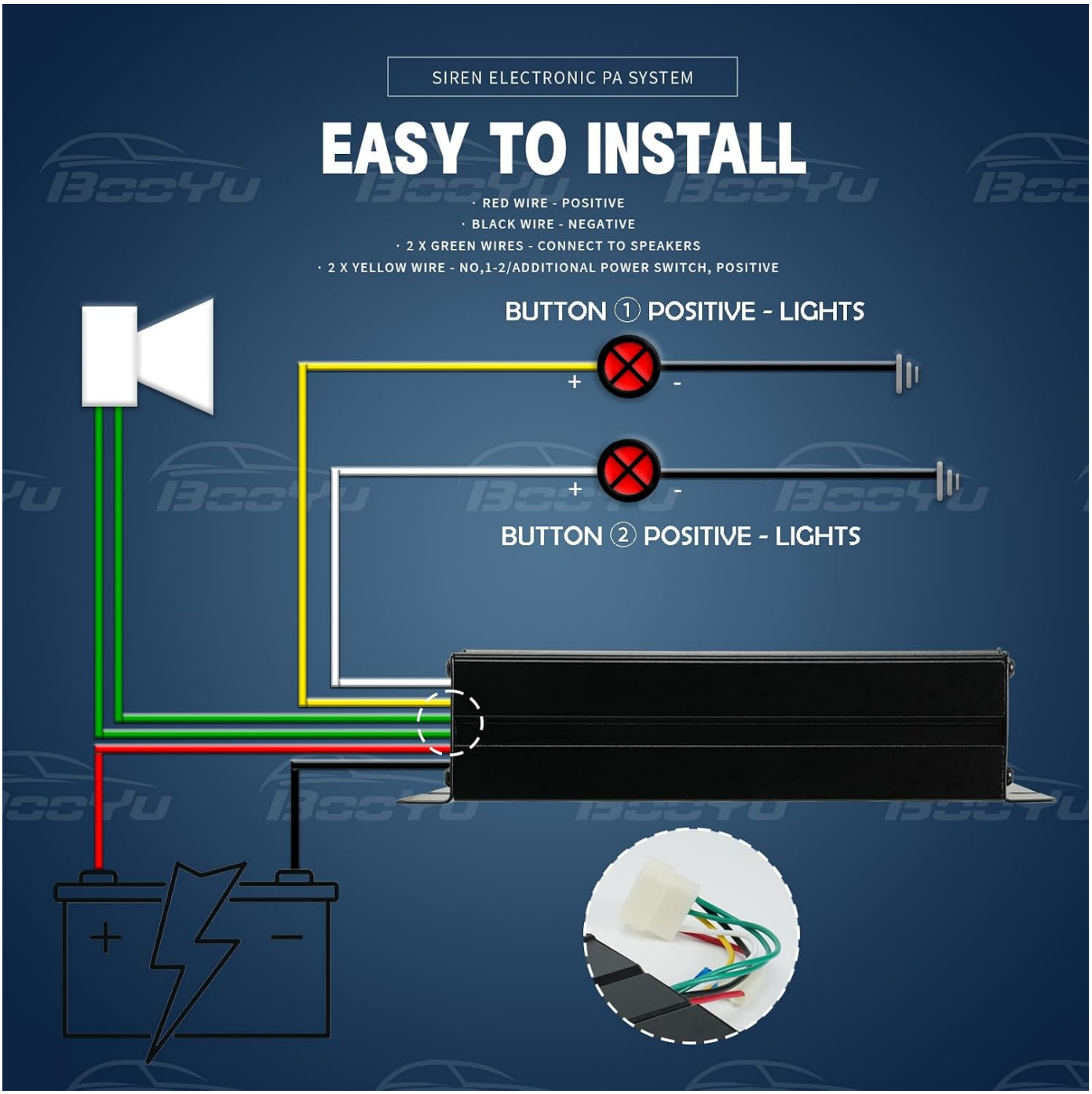
Installation Guide

Follow these steps for proper installation of the siren PA system:

1. **Mounting the Speaker:** The ultra-thin speaker is designed for compact installation, such as behind a vehicle's grille or push bumper. Securely mount the speaker using appropriate hardware.
2. **Mounting the Control Unit:** Choose a dry, secure location inside the vehicle for the main control unit.
3. **Wiring Connections:** Refer to the wiring diagram for correct connections. Ensure all connections are secure and insulated.
    - **Red Wire:** Connect to the positive (+) terminal of the 12V vehicle battery.
    - **Black Wire:** Connect to the negative (-) terminal or a suitable ground point on the vehicle chassis.
    - **Green Wires (x2):** Connect these two wires to the speaker terminals.
    - **Yellow Wires (x2):** These are for additional power switches (10A each) to power external equipment. Connect

to the positive (+) side of your auxiliary lights or other accessories.

4. **Microphone Connection:** Plug the handheld microphone remote into the designated port on the control unit.
5. **Secure Wiring:** Route all wires safely away from moving parts, heat sources, and sharp edges. Use cable ties to secure wiring.



Wiring diagram showing connections for the siren system: Red wire to positive, Black wire to negative, Green wires to speaker, and Yellow wires for auxiliary lights.

Video demonstrating the installation process and functionality of the BooYu Emergency Slim Speaker Horn Siren PA System.

Operating Instructions

The handheld microphone remote provides full control over the siren and PA functions:

- **Power On/Off & Mute:** The central control button (often labeled 'MP3' or similar) is used to turn the system on or off. Press and hold for three seconds to power on/off. A short press will mute the siren or PA function.

- **Push-to-Talk (PTT):** Press the button on the side of the handheld microphone to activate the public address (PA) function and broadcast your voice through the speaker.
- **Siren Tones:** The remote features six distinct siren options (YELP, WAIL1, WAIL2, PHSR, HI-LO, D.D.). Press the corresponding button to activate a siren tone. The high and low frequencies of the siren can be adjusted via the control button.
- **Horn/Bass Button:** This button activates a horn sound and does not affect other modes.
- **Emergency Lights A/B:** These buttons control the two additional 10A switches. A short press turns the connected lights on or off.
- **Volume Adjustment (Siren/Alarm):** Press and hold the 'VOL+' or 'VOL-' buttons to adjust the siren/alarm volume.
- **Volume Adjustment (PA Microphone):** To adjust the PA microphone volume, press and hold the microphone button and simultaneously press 'VOL+' or 'VOL-'.



Diagram illustrating the functions of each button on the handheld microphone remote control, including power, siren tones, PA, horn, and auxiliary light switches.

Maintenance

To ensure the longevity and optimal performance of your BooYu Siren PA System, consider the following maintenance tips:

- **Regular Cleaning:** Keep the control unit and microphone free from dust and debris. Use a soft, dry cloth for cleaning. Avoid harsh chemicals or abrasive cleaners.
- **Inspect Wiring:** Periodically check all wiring connections for signs of wear, corrosion, or looseness. Ensure all connections remain secure.
- **Speaker Inspection:** Inspect the speaker for any physical damage or obstructions that might affect sound output.
- **Environmental Protection:** While the speaker has an IP66 waterproof rating, avoid prolonged exposure to extreme weather conditions if possible.

Troubleshooting

If you encounter issues with your siren PA system, refer to the following common problems and solutions:

- **No Power:**
  - Check all power connections (red wire to positive, black wire to ground).
  - Verify the vehicle's 12V power source is active.
  - Ensure the system is powered on by pressing and holding the control button for three seconds.
- **No Sound from Speaker:**
  - Check the two green wires connecting to the speaker for secure contact.
  - Ensure the speaker itself is not damaged.
  - Verify the system is not in mute mode (short press the control button).
- **PA Microphone Not Working:**
  - Ensure the microphone remote is securely plugged into the control unit.
  - Check if the Push-to-Talk button is being pressed correctly.
  - Adjust the PA microphone volume as described in the operating instructions.
- **Siren Tones Sound Weak or Distorted:**
  - Check all wiring for loose connections or corrosion.
  - Ensure the speaker is properly mounted and free from obstructions.
  - Verify the vehicle's battery voltage is sufficient.

Warranty Information

The BooYu Emergency Slim Speaker Horn Siren PA System (Model Y612) comes with a**1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications. Please retain your proof of purchase for warranty claims.

Customer Support

For further assistance, technical support, or warranty inquiries, please contact BooYu customer service. Refer to the product packaging or the BooYu official website for contact details.

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