

## WHELEN<sup>®</sup> ENGINEERING COMPANY INC.

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### Installation Guide: Model WBUA Series Back-Up Alarm

**DANGER!** Sirens produces extremely loud emergency warning tones! Exposure to these tones without proper and adequate hearing protection, could cause ear damage and/or hearing loss! The Occupational Safety & Health Administration ([www.osha.gov](http://www.osha.gov)) provides information necessary to determine safe exposure times in Occupational Noise Exposure Section 1910.95. Until you have determined the safe exposure times for your specific application, operators and anyone else in the immediate vicinity should be required to wear an approved hearing protection device. **FAILURE TO FOLLOW THIS RECOMMENDATION COULD CAUSE HEARING LOSS!**

#### Safety First

This document provides all the necessary information to allow your Whelen product to be properly and safely installed. Before beginning the installation and/or operation of your new product, the installation technician and operator must read this manual completely. Important information is contained herein that could prevent serious injury or damage.

- Proper installation of this product requires the installer to have a good understanding of automotive electronics, systems and procedures.
- If mounting this product requires drilling holes, the installer **MUST** be sure that no vehicle components or other vital parts could be damaged by the drilling process. Check both sides of the mounting surface before drilling begins. Also de-burr any holes and remove any metal shards or remnants. Install grommets into all wire passage holes.
- If this manual states that this product may be mounted with suction cups, magnets, tape or Velcro<sup>®</sup>, clean the mounting surface with a 50/50 mix of isopropyl alcohol and water and dry thoroughly.
- Do not install this product or route any wires in the deployment area of your air bag. Equipment mounted or located in the air bag deployment area will damage or reduce the effectiveness of the air bag, or become a projectile that could cause serious personal injury or death. Refer to your vehicle owner's manual for the air bag deployment area. The User/Installer assumes full responsibility to determine proper mounting location, based on providing ultimate safety to all passengers inside the vehicle.
- For this product to operate at optimum efficiency, a good electrical connection to chassis ground must be made. The recommended procedure requires the product ground wire to be connected directly to the **NEGATIVE (-)** battery post.
- If this product uses a remote device to activate or control this product, make sure this control is located in an area that allows both the vehicle and the control to be operated safely in any driving condition. **DO NOT ATTEMPT TO ACTIVATE OR CONTROL THIS DEVICE IN A HAZARDOUS DRIVING SITUATION.**
- It is recommended that these instructions be stored in a safe place and referred to when performing maintenance and/or reinstallation of this product.
- **FAILURE TO FOLLOW THESE SAFETY PRECAUTIONS AND INSTRUCTIONS COULD RESULT IN DAMAGE TO THE PRODUCT OR VEHICLE AND/OR SERIOUS INJURY TO YOU AND YOUR PASSENGERS!**

**ACTIVATION OF THIS SIREN MAY DAMAGE UNPROTECTED EARS!**



**Wear Protection!**

**CAUTION**

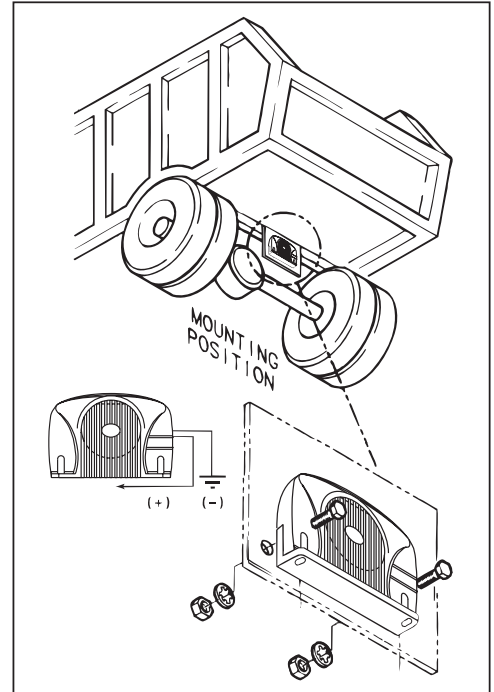
Loud siren noise can cause hearing damage and/or loss. Refer to OSHA Section 1910.95 prior to putting ANY siren into service!

**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**Caution: BACK-UP ALARM MUST BE LOUDER THAN SURROUNDING NOISE LEVEL.  
PLEASE CHECK LOCAL CODES AND REGULATIONS TO ENSURE COMPLIANCE.**

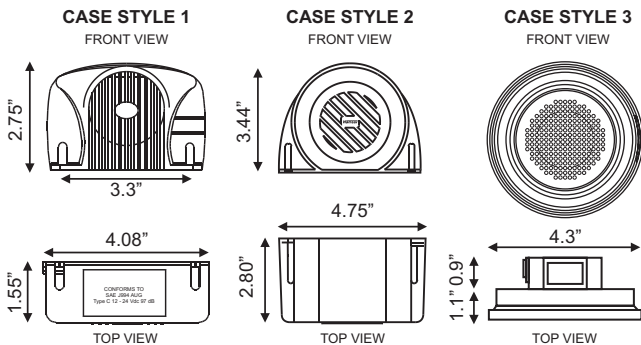
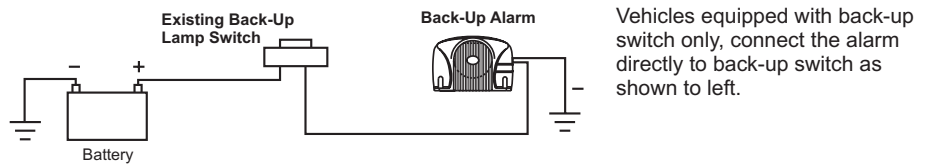
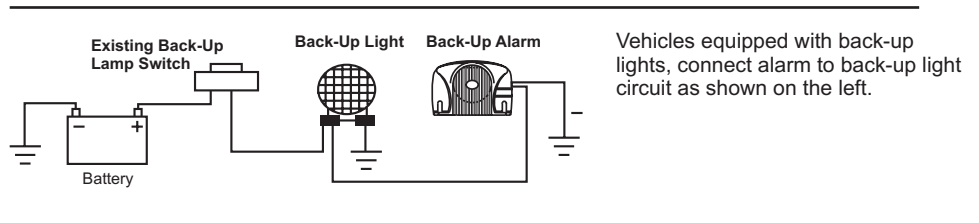
**Mounting...**

1. Read all instructions and disconnect vehicle battery before installing.
2. Do not mount alarm near exhaust system or other sources of excessive heat.
3. Do not mount the alarm where it can be damaged by backing the vehicle into an obstacle.
4. Do not mount the alarm inside an enclosed area as the sound level will be greatly reduced.
5. Mount alarm in a vertical position and as high as possible above ground, centered between rear wheels and facing towards the rear of the vehicle as shown.
6. Using the alarm as a template, mark, center punch and drill two (2) 3/16" holes for #10 screws, lock washers and nuts (customer supplied) to secure alarm to vehicle.
7. Route wires carefully to avoid potential damage.
8. Refer to the "Wiring" section when connecting the circuitry.
9. This alarm should be tested daily. Results should be recorded in the vehicle's maintenance file.
10. Attach warning sticker (included) to dashboard in full view of operator.



**Wiring...**

1. On negative ground vehicles (-), use negative (-) BLACK wire on alarm for ground and connect positive (+) RED wire to back up light circuit.
2. On positive ground vehicles (+), use positive (+) RED wire on alarm for ground and connect negative (-) BLACK wire to back-up light circuit.
3. Connect to 12 - 24 VDC source only.
4. Use 16 ga. or larger for electrical connections.



Model	dB	Case	Applications / Notes
WBUA97	97dB	Style 1	Cars, Pick-Ups, Light and Heavy-Duty Vehicles
WBUA107	107dB	Style 1	Cars, Pick-Ups, Light and Heavy-Duty Vehicles
WBUA112	87-112 dB*	Style 2	School Buses, Trailers, Wreckers * Automatically adjusts volume to compensate for ambient noise
WBUAR97	97 dB	Style 3	School Buses, Trailers, Wreckers and Heavy-Duty Vehicles (fits 4.5" hole)