

## Installation Instructions & Sound Level:

This product is designed to concentrate its audible signal in the target hazard area. **NOTE:** This product is a safety device. It **must** be connected to the vehicle's fused back-up lamp circuit or its own separate fused power point to assure its continued operation. For proper sound dispersion, it must be mounted approximately 4 feet above ground level with the sound opening facing the target hazard area. The label on each product describes the sound output level in decibels (dB).

1. Select a mounting location at the rear of the vehicle that will provide protection from flying objects, debris, and foul weather conditions while allowing unobstructed sound projection from the vehicle.
2. Using the product's housing as a template, mark location for the mounting holes. Drill holes at location marks.
3. Secure product on the vehicle.
4. This product requires a reliable power and ground connection for operation. Complete the wiring according to the wiring diagram in Figure 1. Use 18 gauge wire (minimum) and observe correct polarity. **WARNING!!** Anytime the ARI is in operation, continuity must be maintained between the positive voltage of the power source and the positive terminal (red lead or front stud) of the ARI as well as between the negative terminal (black lead or rear stud) of the ARI and the common ground (the vehicle member to which all wire grounds are connected). During operation the voltage differential between the positive voltage of the power source and the positive terminal (+) of the ARI shall not exceed 150mV. During operation the voltage differential between the common ground and the negative terminal (-) of the ARI shall not exceed 150mV. Route the wire in a protected manner in accordance with vehicle manufacturer recommendations. **NOTE:** The ARI will not operate when its power connections are reversed, however it is protected against reversed polarity up to 800V.

**Important!! DO NOT wire in parallel with a solenoid or relay coil. DO NOT spray any coating material, e.g. paint, undercoating, etc., over the sound opening. DO NOT install the product or its wiring in proximity to ignition wires. Failure to observe these conditions may have an adverse effect on the product's performance.**

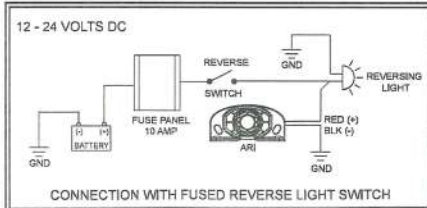


Figure 1

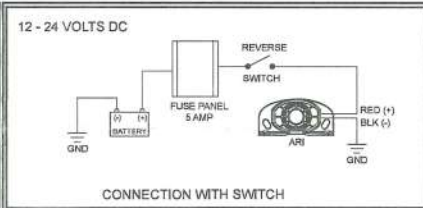


Figure 2

5. Test the product for proper operation. If the product does not sound, review Step 4. After confirming proper operation, affix the provided Warning Label to the dashboard of the vehicle in plain view of the operator. **Do not operate this vehicle if the ARI is not functioning properly.**
6. Add requirement to "test ARI system before operating vehicle" to the daily maintenance log and notify your supervisor or team leader that people operating this vehicle **MUST** confirm proper ARI operation at the beginning of each work shift. **Do not operate this vehicle if the ARI is not functioning properly.**

## Vehicle Operations:

As the operator of a vehicle, you should always know when the ARI is sounding and when it is not sounding. Should the ARI become inoperative, discontinue vehicle operation and notify your supervisor or team leader. Operating a vehicle with an ARI that is not functioning properly could endanger the lives and/or property of those who depend on the audible signal for safety.

## Maintenance:

Preventive maintenance procedures must specify the ARI system inspection. This check should include a thorough examination of the electrical connections and the sound opening. The sound opening must be kept clear of dust, mud, or any other foreign material that may prevent the product from sounding properly. Should this inspection reveal an ARI that is not functioning properly, place a "Do Not Use" sign on the equipment and notify your supervisor or team leader.

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Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request), and Manufacturer further warrants that this product is free from defects in materials and workmanship. This Limited Warranty extends for twelve (12) months from the date of purchase. Other warranties may apply, call Manufacturer for details. Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

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