

# WHELEN<sup>®</sup>

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## Installation Guide X-ECUTOR™ 1 Siren Amplifier

### 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 product is mounted with tape or Velcro™, 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 owners 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 that 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!**

**Installation:**

1. Find a suitable mounting location. A dry, cool compartment is a good choice.
2. Be sure that the amplifier fits properly, then position the amplifier on the mounting location and using an awl or other suitable tool, scribe the mounting surface where the mounting holes are to be drilled.

**Caution:** As mounting this product will require drilling, it is absolutely necessary to make sure that no other vehicle components could be damaged by the drilling process. If any vehicle component could suffer potential harm, select a different location.

3. Carefully drill the mounting holes using a #30 drill bit.
4. Using the supplied sheet metal screws, secure the remote amplifier to the mounting location.

**Input Connector - P1:  
Connecting to Power**

**WARNING!** All customer supplied wires that connect to the positive terminal of the battery, must be sized to supply at least 125% of the maximum operating current and fused "at the battery" to carry that load (see wire chart below).

1. Connect the RED wire to an SPST switch. Extend a wire (of appropriate gage as shown below) from this switch to the vehicle battery. Install a 15 Amp fuse (customer supplied) at the end of this wire. Extend a wire from the fuse block towards the positive terminal of the battery. Do not connect this unit to the battery yet.
2. Connect the BLACK wire to the vehicle's chassis ground.

**Connecting to Speaker / 100 watt:**

1. Route the ORANGE and BROWN wires to your speaker.
2. Connect the ORANGE wire to the WHITE (+) speaker wire.
3. Connect the BROWN wire to the BLACK (-) speaker wire.

**Input Control Connector - P2**

Siren configuration and function are determined by user supplied switches connected to the amplifier. A brief explanation of each of the wires of the Input control connector will serve as a guide to help decide the best configuration for your needs:

- WHITE / GREEN (Manual)** Press Manual and a wail tone will ramp up to a peak, then ramp down when released.
- WHITE / ORANGE (Brake)** Press Brake and the tone will quickly ramp down and stop.
- WHITE / YELLOW (Air Horn)** Pressing Air Horn will generate an Air Horn sound. This function overrides the manual wail tone.

Installation will be complete after the fuse block wire is connected to the POSITIVE (+) terminal of the battery. After this connection has been made, visually inspect the fuses at the back of the amplifier and at the battery. If either of these fuses is blown, carefully inspect all of the circuit wires and make sure they are wired correctly. Replace the blown fuses with ones of an identical amp rating. If these fuses blow after installation or activation, contact Whelen Engineering Technical Support.

**Dip Switch Settings**

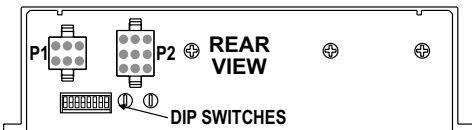
Dip Switch 5 effects the tonal qualities of the simulated mechanical siren tone. In the up (OFF) position, the tone generated has a more mechanical sound. In the down (ON) position, the tone is less mechanical.

**CUSTOMER WIRE SIZE**

For 3 Feet of Wire	20 AWG
For 5 Feet of Wire	18 AWG
For 8 Feet of Wire	16 AWG
For 13 Feet of Wire	14 AWG
For 20.5 Feet of Wire	12 AWG
For 32.5 Feet of Wire	10 AWG
For 52 Feet of Wire	8 AWG

**SPECIFICATIONS**

Input Voltage	12.8 VDC +/-20%
Input Current	10 AMPS / TYP
Output Voltage	33 VRMS
Output Load	11 OHMS
Output Power	100 WATTS
V Control	12.8 VDC +/-20%
I Control	20 MA / TYP



**WIRING DIAGRAM**

