

# WHELEN<sup>®</sup>

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## Installation Manual X-ECUTOR™2 Siren Amplifier

**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™, 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 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)**

**Installation:**

1. Find a suitable mounting location. A dry, cool compartment is a good choice.
2. Position the amplifier on the mounting location and using an awl or similar tool, scribe the mounting surface where the mounting holes are to be drilled.

**CAUTION: As mounting 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 any 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 amplifier to its mounting surface. **IMPORTANT:** The amplifier case must be mounted or grounded to the vehicle chassis.

**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 next page).

1. Extend RED and BLACK wires to the main battery switch.
2. Connect the RED wire to one end of a fuse block.
3. Extend the wire coming from the fuse block to the main battery switch as shown below (switch and fuse block are user supplied). Do not connect this unit to the battery switch yet.
4. Connect the BLACK wire to the vehicle's chassis ground.

**Connecting to Speaker:**

1. Route ORANGE and BROWN wires to speaker.
2. Connect ORANGE wire to the WHITE speaker wire.
3. Connect BROWN wire to BLACK speaker wire.

For dual speaker installation, connect the second speakers wires to the same destinations as the first speakers wires, as shown below.

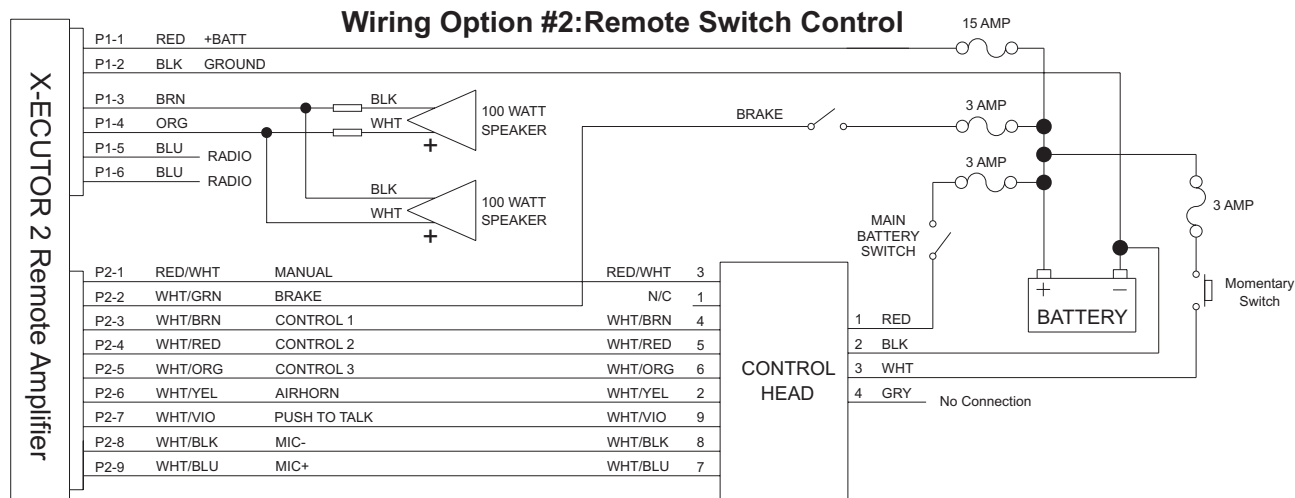
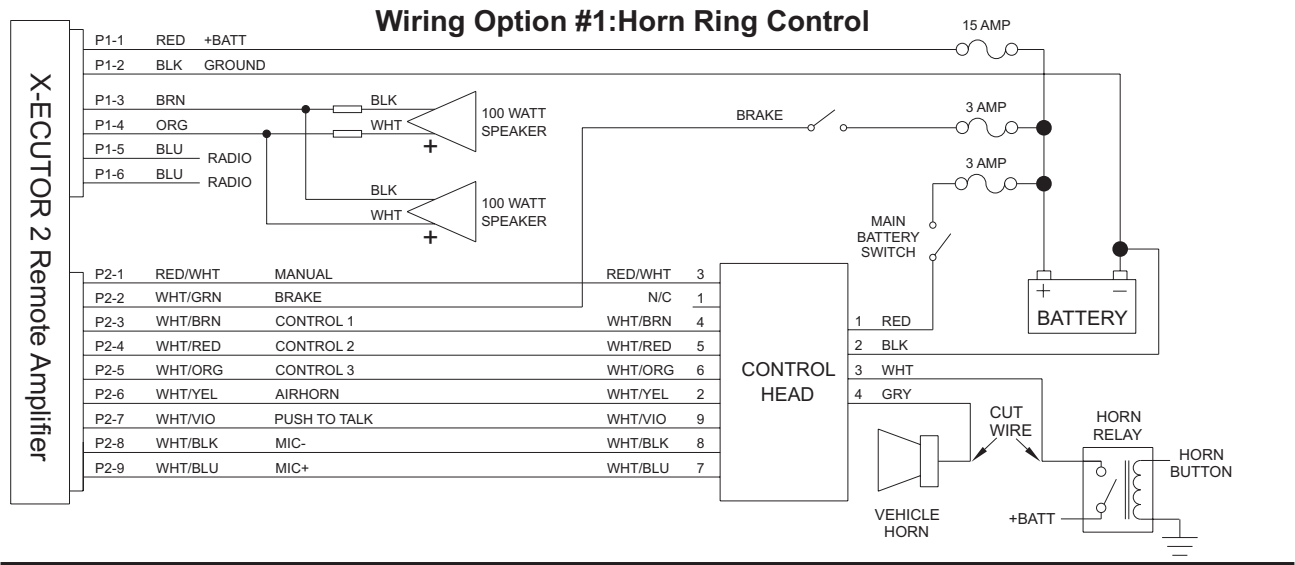
**Connecting Radio Rebroadcast:**

The two (2) remaining BLUE wires are used to connect your two-way radio's external speaker for radio re-broadcast. This is an optional connection and will not effect the other operations. If radio rebroadcast is not used, place dip switch 6 in the down position.

**Note:** Radio re-broadcast will NOT work with amplified remote speakers! If your remote speaker is amplified (I.E.: contains a power amp circuit in the speaker assembly), do not enable the radio re-broadcast feature.

Installation will be complete after the fuse block wire is connected to the main battery switch. 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.

**NOTE:** See next page for Adjusting Radio Rebroadcast. See control head manual for connector P2 wiring.



**Recommended Wire Size:** POWER & GROUND

**Amplifier**

For 5 Ft. of Wire.....	18 AWG
For 8 Ft. of Wire.....	16 AWG
For 13 Ft. of Wire.....	14 AWG
For 20 Ft. of Wire.....	12 AWG
For 32 Ft. of Wire.....	10 AWG

**Control Head**

For 6 Ft. of Wire.....	22 AWG
For 9.5 Ft. of Wire.....	20 AWG
For 15 Ft. of Wire.....	18 AWG
For 24.5 Ft. of Wire.....	16 AWG
For 39 Ft. of Wire.....	14 AWG

**Specifications**

Input Voltage.....	12.5 VDC
Input Current.....	10 AMPS TYP.
Input Fuse.....	15 AMPS
Operating Temp.....	30° - 60°
Storage Temp.....	40° - 70°
Humidity.....	99% Non Condensing



**Dip Switch Functions:**

(Dip Switches 1 and 2 are used Together)

<b>Dip Switch 1</b>	<b>Dip Switch 2</b>	<b>Action</b>
UP .....	UP .....	Normal PIERCER operation
UP .....	DOWN .....	Hi / Lo Tone in place of PIERCER
DOWN .....	UP .....	WAIL / YELP auto cycle in place of PIERCER
DOWN .....	DOWN .....	No tone for PIERCER

**Dip Switch 3**

UP .....	AIRHORN works as usual.
DOWN .....	AIRHORN will not override WAIL or YELP (Title 13)

**Dip Switch 4**

UP .....	BELL activated with MAN and HORN RING
DOWN .....	BELL activated with BRAKE switch. MAN and HORN RING activate AIRHORN

**Dip Switch 5**

UP .....	XEC tone is a mechanical sound
DOWN .....	XEC tone is a less mechanical sound

**Dip Switch 6**

UP .....	RADIO is in high power
DOWN .....	RADIO is in low power

**Dip Switch 7**

UP .....	BELL is in low power
DOWN .....	BELL is in high power

**Dip Switch 8**

UP .....	Rotary Switch is a standard siren tone
DOWN .....	Rotary Switch is an XEC tone

The Default Dip Switch setting is: All Dip Switches UP.

**IMPORTANT NOTE:** For Title 13 compliance Dip Switches 1, 2, and 3 are DOWN.

**Adjusting Radio Rebroadcast:**

Before using this unit, the Radio Rebroadcast output volume must be adjusted to satisfactory operating levels. To adjust this level, a small, flat blade screwdriver is needed. Locate the Radio Rebroadcast adjustment port (potentiometer) to the right of the 12 position input port on the back of the remote amplifier. Set the volume level of the vehicle's two-way radio to it's normal operating volume. Turn the Rotary Knob on the control head to RAD to activate Radio Repeat. Insert the screwdriver in the Radio Rebroadcast adjustment port and turn in clockwise direction to increase the sound level.

REAR VIEW OF SIREN AMPLIFIER

