

# THE COMMISSIONER™ 200 WATT ELECTRONIC SIREN & PA SYSTEM Model 4200



Your purchase of a Wolo electronic siren, THE COMMISSIONER, is the perfect choice for reliable service. THE COMMISSIONER is manufactured with the finest materials and each siren is tested to meet our high standards, ensuring a perfect working siren controller. Wolo's quality workmanship and components are your assurance that this product will provide years of dependable service. If you need help with installation or in using your new Wolo siren, our technicians are available to answer your questions, Monday thru Friday, from 9 AM to 4 PM EST at 1-888-550-4676.

Before installation of the siren is attempted, it is important to read these instructions completely. The lives of people are dependent on the proper installation of this product. The person installing this siren must have advanced knowledge of the proper method for installation of emergency warning equipment, connecting and securing wires to a vehicle's electrical system and knowledge of the vehicle's electrical system. Again, read this manual completely and note any messages marked "IMPORTANT" or "WARNING". A safe installation will prevent serious injury or damage to the vehicle.

## Sound Hazard

**IMPORTANT:** This siren, like all effective sirens, produce a powerful audible sound that could cause permanent hearing loss. **Note:** Hearing loss can occur from short exposure to very loud sounds and or long exposure to moderate loud sounds. To protect your hearing and the hearing of others in or close proximity to the emergency vehicle using this siren, always use proper ear protection. Refer to federal, state, local municipality regulations and OSHA Standard 1910.95 for guidelines of "Permissible Noise Exposure"

## INSTALLATION RECOMMENDATIONS

- For maximum sound be sure that the speaker connected to THE COMMISSIONER siren controller is not less than 200 watts. Recommended Wolo speakers is: Model 4004, or two 100-watt speakers Model 4002 or 4003.
- The speaker or speakers should be mounted facing forward on the vehicle. To obtain maximum sound output, make sure that the speakers are unobstructed. The siren's sound can be severely reduced if objects are in front or blocking the speaker.
- **IMPORTANT:** Installation of siren controller and wire routing must be out of the deployment path of vehicles air bags.
- The siren controller must be installed in a location that will ensure safe operation of the controls and microphone.
- The siren's controller must be mounted in a location that will provide good ventilation. Never install siren controller close to a vehicle's heater duct.
- Before drilling any surface for mounting of the siren controller or for routing wires, carefully inspect the desired location to ensure that there are no components, wires and or any other vehicle parts that could be damaged by drilling.
- Before connecting the siren controller to the vehicle, carefully review the vehicle's shop or build manual to ensure the connection point will not affect the circuit or the vehicle's operation.
- Speaker impedance: 6 to 8 ohms (not included).

**IMPORTANT:** Failure to follow all safety precautions and installation procedures outlined in these instructions could result in property damage to the vehicle, serious injury or death to the driver or others.

### MOUNTING SIREN CONTROLLER Fig. 1

1. **IMPORTANT:** Do not connect the siren controller's wires to any vehicle power point until mounting of the controller is completed.
2. **WARNING:** If the vehicle is equipped with air bags, the installer **MUST** consult the vehicle's shop or build manual to ensure that siren controller and it's wires will not affect deployment of air bags. This siren must be installed only in a location recommended by the vehicle manufacturer. If necessary consult manufacturer for their recommendation.

Failure to adhere to this warning could result in damage to the air bag and or reduce the effectiveness of the air bag, which could result in bodily injury, or death to the driver, passengers and others.

3. The swing bracket included has been designed to mount to the siren controller either from the top for hanging under dash or bottom for top surface mounting.

### CAUTION

- Before drilling any surface for mounting the siren controller or for routing wires carefully inspect the desired location to ensure that there are no components, wires and or any other vehicle parts that could be damaged by drilling.
  - The siren controller must be mounted in a location that will provide good ventilation. Never install siren controller close to a vehicle's heater duct.
4. Using the swing-mounting bracket as a template, mark the location of mounting holes to be drilled, (2 holes in each slot of the mounting bracket).
  5. Drill holes on the marked locations using a 15/64" drill bit.
  6. Secure the swing-mounting bracket to the desired location using the hardware provided, (5.95 mm x 20-screws, flat-washers, lock-washers and nuts).
  7. The siren controller is secured to the mounting bracket using the hardware provided, (5.95 mm x 10-screws, lock-washer and plastic washer). Tilt and position the siren controller so that it is easily reachable by user. Tighten the two screws that secure the siren controller to the swing bracket.

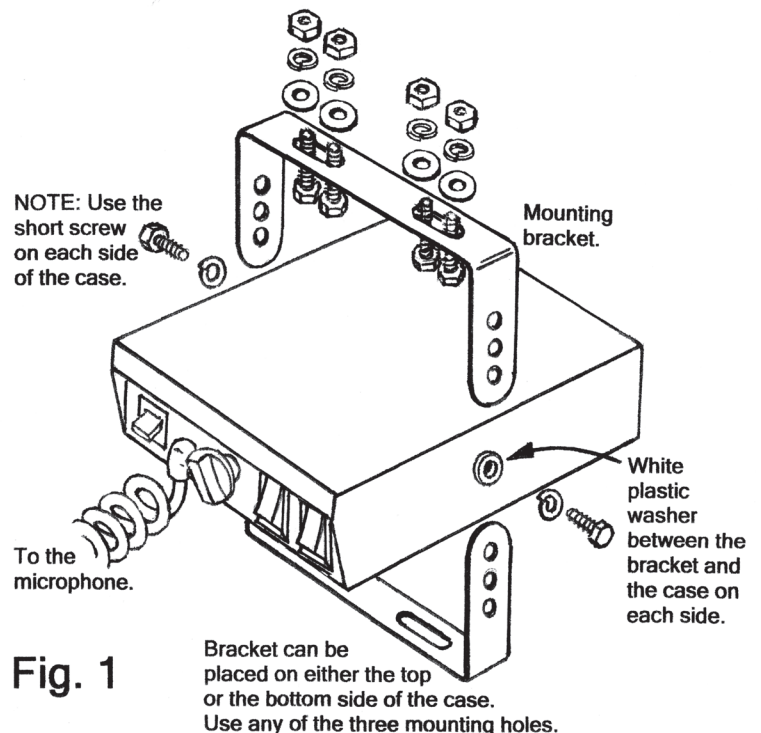


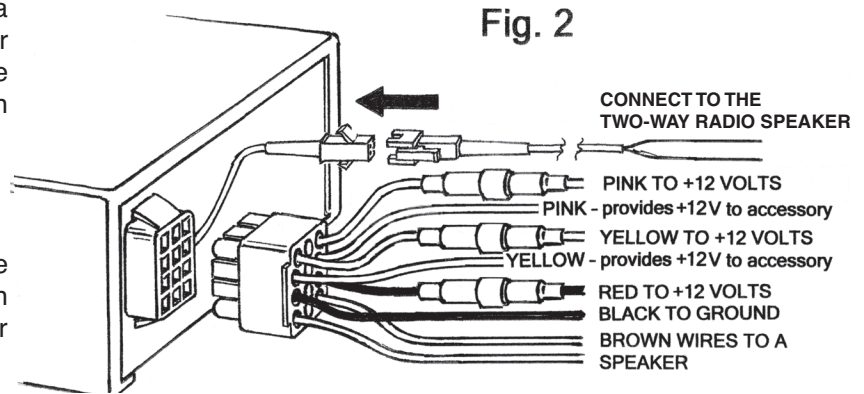
Fig. 1

## HARNESS WIRE INFORMATION Fig. 2

8. The wire harness provided with the siren has a male plug end that mates with the connector located in the back of the siren controller. The plug is designed to connect and lock only in one position.

### WARNING

- Do not connect the wire harness plug to the siren controller until all connections have been completed, wires are secured and the installer inspects and verifies that no short circuits exist.
- Before wiring the siren controller to the vehicle, carefully review the vehicle's shop or build manual to ensure the connection points will not affect the circuit or the vehicle's operation.
- If the vehicle is equipped with air bags, the installer **MUST** consult the vehicle's shop or build manual to ensure that the siren's harness wires will not affect deployment of the air bags. If necessary consult manufacturer for their recommendation.
- Any wires that pass through the vehicle's firewall or drilled sheet metal must have a rubber grommet or approved insulator inserted into the hole to protect the wires from being shorted or damaged from rough metal edges.
- Failure to follow these instructions could cause hazardous sparks, electrical fire, burns and personal injury.



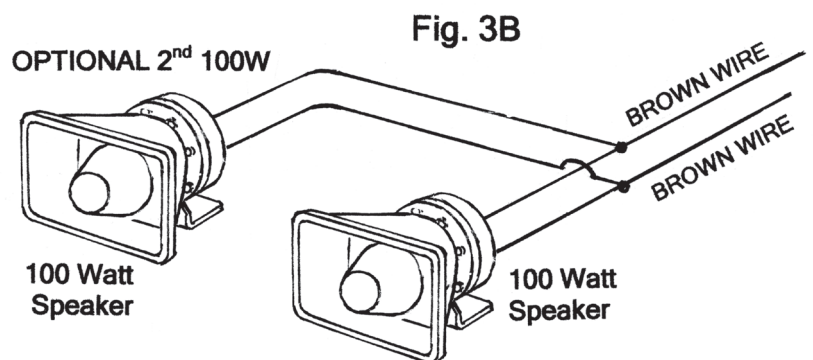
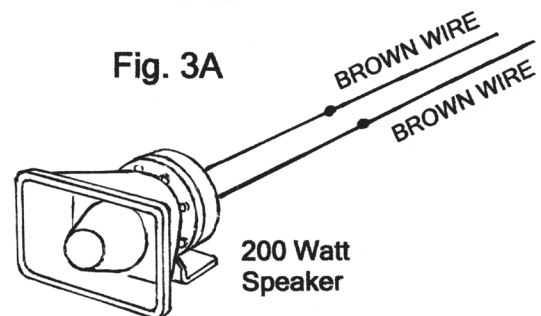
## HARNESS WIRING

9. **WARNING:** Failure to wire the siren as outline in this instruction manual could result in permanent damage to the siren, the vehicle's electrical system and/or cause a fire. If a fuse or wire needs to be replaced, they must meet or exceed specifications rating specified in this manual. Any deviation to the electrical specifications is at the installers/users risk. **IMPORTANT:** Always carefully review the vehicle's shop or build manual to ensure the electrical connection points will not effect the circuit or the vehicle's operation. If the harness wires need to be extended, use 18 gauge or heavier wire.

10. **BROWN WIRES:** are connected to speaker either Fig, 3A or 3B.

**Radio rebroadcast:** Will allow the user to broadcast the vehicle's two-way radio outside of the vehicle with controllable volume.

11. **WHITE WIRE:** is an audio wire that is connected to the speaker of the two-way radio. If the white wire needs to be extended, use 18-gauge or heavier audio wire that is metal shielded. The white wire has a plug end that connects in the rear of the siren controller.
12. **BLACK WIRE** is connected to ground. Secure black wire under a metal body bolt in the dashboard area; make sure that the METAL surface around the bolt is clean of rust and paint to make a good electrical connection.
13. **RED WIRE:** is connected to the vehicle's fuse-block or a under dash power source that can supply 12-volts / 15-amps. The red wire is provided with an in-line fuse that must be used. The fuse should not be more then ten-(10) inches from the power source. (Note: if you need to replace the fuse use a 15 amp type AGC). **NOTE:** Tape all connections and secure wires.



## ACCESSORY ROCKER SWITCHES:

### LEFT ROCKER SWITCH IS CONTROLLED BY PINK WIRES

14. **PINK FUSED WIRE:** is connected to the vehicle's fuse-block or a under dash power source that can supply 12-volts / 15-amps. The pink wire is provided with an in-line fuse that must be used. The fuse should not be more than ten-(10) inches from the power source. (Note: if you need to replace the fuse use a 15 amp type AGC).
15. **PINK WIRE (WITHOUT FUSE):** +12-volt power feed to warning light or accessory. **IMPORTANT:** do not exceed 15 amps.

### RIGHT ROCKER SWITCH IS CONTROLLED BY YELLOW WIRES

16. **YELLOW FUSED WIRE:** is connected to the vehicle's fuse-block or a under dash power source that can supply 12-volts / 15-amps. The yellow wire is provided with an in-line fuse that must be used. The fuse should not be more than ten-(10) inches from the power source. (Note: if you need to replace the fuse use a 15 amp type AGC).
17. **YELLOW WIRE: (WITHOUT FUSE):** +12-volt power feed to warning light or accessory. **IMPORTANT:** do not exceed 15 amps.

**NOTE:** It is important that any components connected to the yellow & pink wires, do not exceed the maximum current rating, 15-amps.

**NOTE:** Tape all connections and secure wires.

18. Connect the male plug to its female mate in the rear of the siren controller. **Note:** The plug is designed to connect and lock only in one position.

### **MOUNTING MICROPHONE HANGER BRACKET Fig. 4**

Select a location that the microphone can easily be reached. Using the microphone hanger bracket as a template, mark the two locations and drill to size, 1/8" drill bit. Secure the microphone bracket with the two-(2) sheet metal screws provided. **CAUTION:** Before drilling the surface for mounting of the microphone bracket, inspect the desired location to ensure that there are no components, wires and or any other vehicle parts that could be damaged by drilling.

### **TESTING AFTER INSTALLATION**

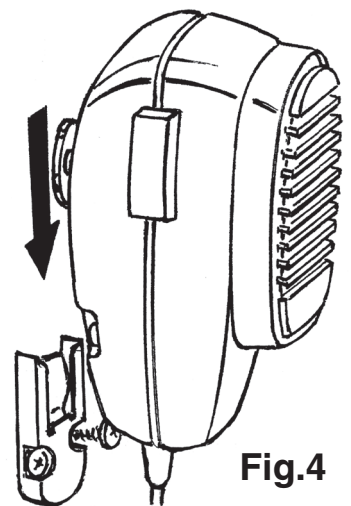
**GAIN CONTROL:** The GAIN CONTROL is used to turn on/off the siren controller and adjust the volume. Turn the rotary GAIN control clockwise, which will turn on the siren controller. Further clockwise rotation of GAIN control will increase the volume of all siren sounds, P.A system and radio rebroadcast. The maximum clockwise position of the GAIN CONTROL is determined by either feedback or squeal being amplified. Adjust the GAIN CONTROL to be positioned just before feedback occurs or to a sound level that is desired.

**SELECTOR SWITCH:** The rotary switch located in the center of the front panel is used to control five functions, which are: three (3) different siren sounds, manual siren operation and radio rebroadcast.

19. Test each siren sound by positioning the selector control to the following positions:
- **WAIL:** When the selector is in this position the siren produces a "WAILING" sound that is continuous.
  - **YELP:** When the selector is in this position the siren produces a "YELP" sound that is continuous.
  - **HI-LO:** When the selector is in this position the siren produces a two-tone "HI-LO" sound that is continuous.
  - **MANUAL CONTROL SWITCH:** The switch position allows the user to manually control two (2) siren sounds, **AIR HORN / SIREN**. The manual control is located on the left side of the siren's control panel. Lifting and holding the red switch activates the air horn sound. Pressing down and holding the switch will active a powerful siren. The manual switch will also override any siren that is in use.
  - **RADIO:** If you have connected the two-way radio to the siren controller for radio rebroadcast (see step number 10), position the selector control to **RADIO**. Turn on the vehicle's two-way radio. The radio's rebroadcast volume is controlled by the two way radio's volume control.

### **P.A. SYSTEM:**

20. Position the selector control to **MANUAL**. To test the P.A. system, depress the microphone's push-to-talk button. Speak into the microphone in a normal voice. The volume is controlled by the GAIN control. The P.A. system will also override any siren that is sounding.





**SPECIFICATIONS: Siren controller**

- 12-volt / 200 watts maximum output
- L 6 in. x Depth 7-1/2 in. x H 2-1/2 in.
- Current 6.5 amperes volume control set at maximum
- Case is all metal black enamel painted
- Adjustable metal stainless steel swing bracket provided
- Illuminated front control panel by LED's
- Noise canceling microphone
- Power harness is six-(6) ft. in length and has an inline fuse-holder
- Weight 4 pounds (controller without swing bracket)

Cycle Rate .....Wail – 20 cycles/min  
 .....Yelp – 180 cycles/min  
 .....Hi-Lo – 60 cycles/min

**Warranty**

Wolo Manufacturing Corporation (“Wolo”) warranties to the original purchaser, for three months from the date of purchase, that this product is free from defects in workmanship and materials. If there is such a proven defect, Wolo, at its option, will either repair or replace the item free of charge, if it is returned to Wolo within three months from the date of purchase together with proof of purchase as described below. Wolo reserves the right to inspect any defect prior to settling any warranty claim by repair or replacement. This warranty is limited as above provided and Wolo will not be responsible for fire or other casualty or accident, due to neglect, abuse, abnormal use, modifications, faulty installation of this product, or natural causes.

ANY EXPRESSED WARRANTY NOT PROVIDED HEREIN IS EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF THREE (3) MONTHS. UNDER NO CIRCUMSTANCES SHALL WOLO BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY OR OTHERWISE.

To obtain warranty service, return the product prepaid, and include the original bill of sale showing the date of purchase. Provide with the return a brief description of the problem. Also, include with the return a check or money order in the amount of \$10.00 to cover return shipping. Mail to:

**Wolo Manufacturing Corp. One Saxwood Street, Deer Park, NY 11729**  
**Attn: Warranty Service E-mail: tech@wolo-mfg.com**