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www.emergencyequipment.co.uk**

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EVS Owner's Manual

**Responder Mini-Siren
Rotary Switch Version**

REVISION DATE: Feb. 17, '06

REVISION: 1.0

WARRANTY

Emergency Vehicle Solutions (EVS) warrants the Mini-Siren, to the original purchaser, to be free of defects in materials or workmanship for a period of one year from the original date of purchase (excluding battery pack that is covered by a 90 day warranty). **EVS** will, at its sole discretion, repair or replace the Mini-Siren deemed defective.

EXCEPT AS PROVIDED HEREIN, **EVS** MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, **EVS** SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGE RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF **EVS** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

In the event of a product defect during the warranty period, return the product to **EVS**. **EVS** will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of same or similar design. New or reconditioned parts and products may be used in the performance of the warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by EVS; (c) consumable such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

EVS Customer Relations
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SIREN HOUSING AND STROBE LIGHT INSTALLATION

Read All Instructions First, Before Siren Installation

The siren housing, horn button and strobe light mount on the handlebar as shown in the picture below. The following are instructions for mounting:

1. The supplied 1.5-inch and 1-inch strips of adhesive rubber (2) and are placed directly under the base mounts of each item. The strips go length-wise between the base mount and handlebar and are placed on the front face of the handlebar, see pictures below.
 2. Place the nylon tie-straps through the base mounts and around the handlebar and tighten in place. DO NOT use pliers or other tools to tighten the straps, hand tighten only. The nylon straps might require tighten again, do to reforming of the rubber strips over time. The nylon straps on the siren housing have a releasable tap, for repositioning. On all the straps, you may cut off excessive length but leave 1" for re-tightening of the straps. Note: The nylon strap (tie-strap) used on the light is not reusable.
- **THE SIREN HOUSING MUST BE MOUNTED WITH THE CABLE EXIT POINTED DOWN AT THE GROUND.**
 - **THE LIGHT HOUSING MUST BE MOUNTED WITH THE VENT HOLE POINTED DOWN AT THE GROUND.**



HORN/WHISTLE PUSH BUTTON INSTALLATION

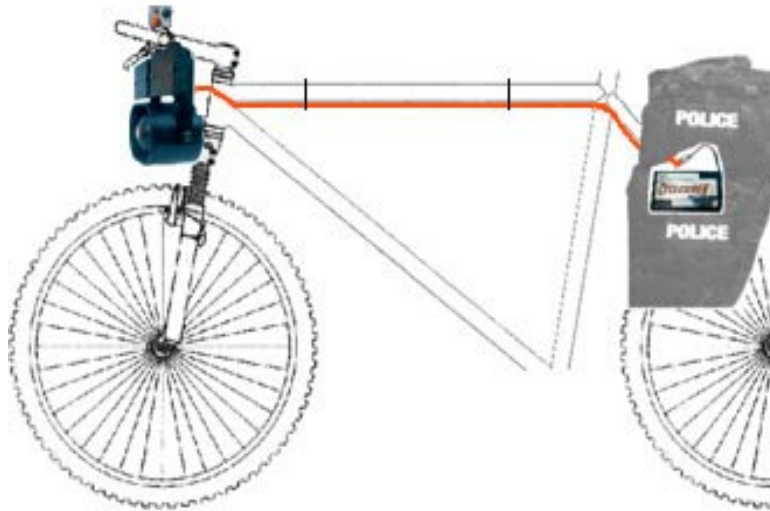
The push-button switch fits inside the hole in Velcro grip-tie. Place the grip-tie with push-button installed, around the handlebar and tighten in place. The Velcro strap over-laps around the push-button switch. Attach and tighten the supplied 4" black nylon tie-rop around both push-button cable (near push-button, 1.5" from button) and handlebar.

BATTERY INSTALLATION

The 9.6-volt battery pack is placed inside the gear rack pack or gear side packs, see illustration below. The 9.6 volt Ni-MH battery dimensions are (4" x 2.25" x 0.5") and battery weight is 7 oz. The gear packs are not provided by *EVS*.

Run the power cable attached to the siren housing along the bike top tube and use cable ties to secure the cable to the top tube, see illustration below. Be sure to make a 4-6 inch loop in the power cable between the siren housing and stem. Do not secure the power cable to a non-enclosed brake or shifter cables.

The male plug end of the power cable is inserted inside the gear pack through a zipper entry point in the gear pack. A small hole can also be made in the gear pack to pass the cable inside the gear pack.



CHARGING THE 9.6-VOLT BATTERY

- ❖ **Caution: Charge the 9.6V Ni-MH battery with the charger provided by EVS. Other types of batteries might burst causing personal injury and damage.**
- ❖ **Caution: Do not expose the charger to rain or moisture.**
- ❖ **A Universal Smart Charger can be purchased separately from EVS and will safely charge the 9.6V Ni-MH in 90 minutes (1800 to 2000 mAh batteries) with Auto-Off.**

PROCEDURE:

1. Attach the battery pack's connector to the charger's matching connector. Do not force them! They fit together only one way.
2. Plug the charger into a standard AC outlet (120 Volts, 60 Hz).
3. Charge the 9.6V battery for the time recommended in the auto-charger instructions— **DO NOT OVER CHARGE!** **EVS** recommends the purchase of the Universal Smart Charger for a 90-minute charge-time and Auto-off after charging battery.
4. Unplug the charger from the AC outlet and then remove the battery pack.
5. After charging, the battery pack feels warm. This is normal.

The *Mini-Siren* is designed to take advantage of the standardized RC 9.6-volt Nickel Metal Hydride (Ni-MH) battery pack available at Electronic or Hobby stores. **EVS** strongly recommends the use of a 9.6-volt Nickel Metal Hydride (Ni-MH) battery to operate the siren.

The front warning light and optional taillight are automatically turned-on in any sound mode - Hi/Lo, Wail, Yelp, and Whistle/Horn.

If the optional White light is ON, the light will remain ON in the sound modes.

PUSH-BUTTON: HORN or EMS WHISTLE

This switch is a momentary push-button switch. Horn sound (or the EMS Whistle) remains on as long as the horn push-button is held down.

TROUBLESHOOTING

There are no serviceable parts inside the *Mini-Siren*. The safety fuse is located inside the siren housing and is a self-resetting fuse and does not require service. This fuse protects the siren electronics and LED strobe lights from damage, do to the battery being connected backwards or electronic component failure.

BATTERY OR CHARGER PROBLEMS

1. If the red or green indicator light on the charger does not light:
 - Be sure you have connected the battery pack properly to the charger. The plugs fit together only one way.
 - Unplug the charger and remove the battery pack. Clean the battery and charger connectors with cotton Q-tip soaked in rubbing alcohol.
 - On the charger's battery connection plug, slightly bend-in the sides of the female pins to reduce their diameter using a small jewels screwdriver.
 - Try another battery. A nickel-metal hydride (Ni-MH) battery pack can be charged between 300 to 500 times before it will no longer take a charge.

Reconnect the charger to the battery pack and plug in the charger. If you still have trouble, return the battery and charger to *EVS*.

2. If the 9.6-volt does not hold a charge after charging: Symptoms would be frequent battery charging with low usage of siren functions (1 to 15 minutes of total time in Wail or Yelp modes).
 - Purchase a new battery. A nickel-metal hydride (Ni-MH) battery pack can be charged between 300 to 500 times before it will no longer function.

SIREN DOES NOT FUNCTION

If the siren does not function in any modes:

- a) Be sure you have connected the battery pack properly to the siren's power cable plug. The plugs fit together only one way.
- b) Unplug the battery pack from the siren power cable. Clean the battery and siren power cable connectors with cotton Q-tip soaked in rubbing alcohol.
- c) On the siren power cable plug, slightly bend-in the sides of the female pins to reduce their diameter using a small jewels screwdriver.
- d) Try another battery pack.

If you are returning your Mini-Siren for repair, please e-mail or fax us to obtain a Return Authorization Number (RNA).

Phone: 0870 046 8780

E-mail: sales@emergencyequipment.co.uk

Return shipping address:

Emergency Vehicle Solutions

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OPERATION

GENERAL OPERATION

SOUND MODES ON

The handlebar LED strobe light (Warning Light) and the optional taillight are automatically turned on with Wail, Yelp, Whistle and Horn sound modes.

SOUND MODES OFF

The handlebar LED strobe light and taillight can operate without siren sounds by selecting one of the two lighting symbol positions on the rotary switch.

WARNING! Test the Siren outside, hearing damage can result when the siren is used inside or when an ear is too close to the siren's audio output. . The *Mini-Siren* can produce a peak audio output of 115dB SPL at 3 feet.

LIST OF FUNCTIONS

The rotary switch on the siren housing selects the siren functions.



SOUNDS: HI/LO  YELP  WAIL 

To turn-on Hi/Lo, Wail or Yelp sounds, select the appropriate position on the rotary switch.

LIGHTING: TAILLIGHT  WARNING LIGHT 

To turn-on lighting, select the appropriate position on the rotary switch. When the front warning light is selected the taillight is also on.

RESPONDER MINI-SIREN

Electrical

Daylight viewing Red/White LED strobes with a luminous intensity is 48/72 candela, respectively (All Blue strobe light is 96 candela). The strobes flash at 4 per second rate and alternate between 4 Red then 4 White flashes. Peak audio output power is 115db SPL @ 3 feet (wail and yelp).

- ◆ Three Siren audio sounds:
 - Wail... 550Hz to 1900Hz
 - Yelp... 619Hz to 2509Hz
 - Horn... 300Hz to 600Hz range
 - Whistle... 1000Hz to 3000Hz
- ◆ Power source is a 9.6-volt Ni-MH RC battery pack @1600 mAh. Providing 1 hour or longer of continuous operation in Wail, Hi-Low and Yelp siren sound modes, with red/white strobe lights on. Lights only, up to 5 to 8 hours (dependent on lighting configuration).
- ◆ Taillight is a daylight viewing Amber/Blue LED combination with a luminous intensity of 48/48 candela, respectively (other colors available).

Mechanical

- ◆ Lightweight at 1 lb., including the battery pack.
- ◆ Sealed rotary switch for Wail, Yelp, Hi-Low, Taillight, Front Strobe Light, and Whistle Functions.
- ◆ Watertight siren housing.
- ◆ Waterproof circuit boards.
- ◆ Mini-Siren operating temperature range between 32°F and 110°F.
- ◆ Color matte black.

NOTE:

THE MINI-SIREN IS WATERPROOF FOR LIGHT/MEDIUM RAIN CONDITIONS ONLY.

- **DO NOT TRANSPORT A BIKE EXTERNALLY ON A VEHICLE IF SIREN IS INSTALLED**
- **THE SIREN HOUSING MUST BE MOUNTED WITH THE CABLE EXIT POINTED DOWN AT THE GROUND**

Optional Taillight Installation

Use the included taillight bracket mount the taillight on rear end of the metal gear rack (or under the seat). There is normally a small hole at rack rear end for mounting a light or reflector. The rubberized bracket can be bent to adjust the viewing angle of the taillight.



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