

# INSTALLATION & OPERATION MANUAL



**CODE 3**<sup>®</sup>  
A PUBLIC SAFETY EQUIPMENT COMPANY

*MODEL CL199AH*

# *LED BEACON*

	Contents:
Installation & Mounting .....	2
Wiring Instructions .....	2
Operation .....	2
Warranty .....	4

**IMPORTANT:**

*Read all instructions and warnings before installing and using.*

**INSTALLER:** *This manual must be delivered to the end user of this equipment.*

# Installation & Mounting

## Magnetic Mounting:



### WARNING!

As with any magnetically-mounted warning device, its use on the exterior of a moving vehicle is at the sole discretion and responsibility of the user. This magnetic mount product provides a secure, temporary installation in most circumstances and is recommended for stationary use only.

The magnetic based beacon provides a secure, temporary installation. The beacon should be placed in the center of the roof where the least amount of curvature occurs. Check the magnet for debris before installation. Any foreign matter can reduce holding power and scratch the vehicle. The roof surface should be dry and have a dull, not glossy finish. A glossy, highly waxed surface will reduce the magnet's holding power. When placed, the beacon should adhere firmly. The user should not attempt to drive with the beacon in place should the unit slide or move easily.

## Permanent Mounting:

The permanent mount beacon provides a secure, permanent installation. Use the supplied foam gasket and screws to mount the beacon in the desired location. Wire routing should be taken into consideration when choosing a mounting location.

### Pipe Mounting (optional):

The beacon base will accept a standard 1" NPT pipe. Hand tighten the beacon base on the pipe thread until the pipe bottoms out inside the unit.

# Wiring Instructions

## Magnetic Mounting:

The magnetic mount beacon is equipped with a cord that plugs into a 12 Volt DC cigarette lighter outlet; rotate and push with reasonable moderate force to insure the best possible connection.

## Permanent Mount:

The permanent mount beacon wire functions are as outlined below:

<u>COLOR</u>	<u>FUNCTION</u>	<u>CONNECT TO</u>
Red	Power	+VDC
Black	Ground	Chassis Ground
Blue	Pattern Switching	Chassis Ground to Activate
Yellow	Synchronization	See Operation Section
Purple	Low Power	Chassis Ground to Activate
White	Upward Facing Patrol LEDs	Chassis Ground to Activate

# Operation

## Low Power (Permanent Mount Only):

Connect the Purple wire to Chassis Ground to put the beacon into low power operation. Disable this wire to restore normal, high power operation.

## Upward Facing Patrol LEDs (Permanent Mount Only):

Connect the White wire to chassis ground to activate the upward facing Patrol LEDs. Disable this wire to restore normal operation.

# Operation (cont.)

## Flash Patterns:

The CL199AH LED Beacon is programmed with 30 different flash patterns. Refer the section below for instructions on how to set the flash pattern.

### Synchronous Flash Patterns

FP 1:	Single Alert 75 PHASE 1 (Sim)	FP 12:	Single Flash 150 PHASE 2 (Sim)
FP 2:	Single Alert 75 PHASE 2 (Sim)	FP 13:	Single Flash 75 PHASE 1 (Sim)
FP 3:	Quad Flash 75 PHASE 1 (Sim)	FP 14:	Single Flash 75 PHASE 2 (Sim)
FP 4:	Quad Flash 75 PHASE 2 (Sim)	FP 15:	Single Alert 75 (Alt)
FP 5:	Double Flash 150 PHASE 1 (Sim)	FP 16:	Quad Flash 75 (Alt)
FP 6:	Double Flash 150 PHASE 2 (Sim)	FP 17:	Double Flash 150 (Alt)
FP 7:	Double Flash 75 PHASE 1 (Sim)	FP 18:	Double Flash 75 (Alt)
FP 8:	Double Flash 75 PHASE 2 (Sim)	FP 19:	Single Flash 375 (Alt)
FP 9:	Single Flash 375 PHASE 1 (Sim)	FP 20:	Single Flash 150 (Alt)
FP 10:	Single Flash 375 PHASE 2 (Sim)	FP 21:	Single Flash 75 (Alt)
FP 11:	Single Flash 150 PHASE 1 (Sim)		

### Non-Synchronous Flash Patterns

FP 22:	Active Flash (Sim)	FP 27:	Rotator 75
FP 23:	Modular Flash (Sim)	FP 28:	Rotator 125
FP 24:	Modular Active (Alt)	FP 29:	Rotator 250
FP 25:	Modular Active (Sim)	FP 30:	AUTORUN
FP 26:	Rotator 50		

*(Sim) - Front and Rear LEDs fire simultaneously, (Alt) - Front and Rear LEDs alternate*

## Synchronization (Permanent Mount Only):

To sync two beacons, configure both beacons to display the same Phase 1 pattern. With the power off, connect the YELLOW wires from each beacon together. When the beacons are activated, their patterns will be synchronized.

To configure the two lighthoods to alternate their patterns, advance the pattern of either beacon to the Phase 2 mode of the current pattern. **Do not SYNC more than 8 beacons!**

## Setting the Flash Pattern:

### Magnetic Base Version:

Depress the rocker switch on the lighter plug:

- Less than 1 second for the **NEXT** pattern
- 1 to 3 seconds for the **PREVIOUS** pattern
- 3 to 5 seconds for the **DEFAULT** pattern
- Greater than 5 seconds to **TURN OFF** the beacon

### Permanent Mount Version:

Connect blue wire to black wire (chassis ground):

- Less than 1 second for the **NEXT** pattern
- 1 to 3 seconds for the **PREVIOUS** pattern
- 3 to 5 seconds for the **DEFAULT** pattern
- Greater than 5 seconds to **TURN OFF** the beacon



**WARNING!**

This product contains high intensity LED devices. To prevent eye damage, **DO NOT** stare into light beam at close range.

# WARRANTY

This product was tested and found to be operational at the time of manufacture. Provided this product is installed and operated in accordance with the manufacturer's recommendations, Public Safety Equipment guarantees all parts and components except the lamps for a period of 5 years from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of a lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty.

PSE shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

**PSE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.**

# PRODUCT RETURNS

In order to provide you with faster service, if you are going to return a product for repair or replacement\*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to PSE. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

\*PSE reserves the right to repair or replace product at its discretion. PSE assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair.

**PROBLEMS OR QUESTIONS? CALL OUR TECHNICAL ASSISTANCE HOTLINE (314) 996-2800**

[WWW.CODE3PSE.COM](http://WWW.CODE3PSE.COM)

**CODE 3**<sup>®</sup>  
A PUBLIC SAFETY EQUIPMENT COMPANY

Code 3<sup>®</sup>, Inc.  
10986 N. Warson Road  
St. Louis, Missouri 63114-2029—USA  
Ph. (314) 426-2700 Fax (314) 426-1337

Part No. T07890 Rev. 1 11/2007  
©2007 Code 3, Inc