

INSTALLATION & OPERATION MANUAL



FX817

FRONTIER™ LED MINI BAR

Contents:

- Introduction.....2
- Features and Specifications.....2
- Current Draw.....2
- Installation & Mounting.....3
- Wiring.....3
- Operation.....4
- Maintenance.....4
- Troubleshooting.....4
- Flash Patterns.....5
- Dimensions.....6
- Notes.....7
- Warranty.....8

IMPORTANT: Read all instructions and warnings before installing and using.
INSTALLER: This manual must be delivered to the end user of this equipment.

Introduction

The Frontier™ LED Mini Bar is a weatherproof LED based warning light beacon that contains 8 state-of-the-art high intensity LED light heads. It's unique design also features a capacitive touch flash pattern changing system.

WARNING!



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



The use of this or any warning device does not insure that all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.

The effectiveness of this warning device is highly dependent upon correct mounting and wiring. Read and follow the manufacturer's instructions before installing or using this device. The vehicle operator should insure daily that all features of the device operate correctly. In use, the vehicle operator should insure the projection of the warning signal is not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. This equipment is intended for use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should check all applicable city, state and federal laws and regulations.

Code 3, Inc., assumes no liability for any loss resulting from the use of this warning device.

Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognize that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to: A) Not reduce the output performance of the system, B) Place the controls within convenient reach of the operator so that he can operate the system without losing eye contact with the roadway.

Emergency warning devices often require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.

PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

Features and Specifications

Operating Voltage: 10-30VDC, Reverse Polarity Protected


Current Draw


Default Flash Current Draw (Ave):

3.5 Amps

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. Magnetic mounting provides a secure, temporary installation on a non-moving vehicle in most circumstances and is recommended for stationary use only.

 **WARNING!** This device, when magnetically mounted, is not intended for use on a moving vehicle.

The magnetic based beacon provides a secure, temporary installation on a non-moving vehicle. 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, non-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 magnetically mounted.

Permanent Mounting:

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

Wiring Instructions

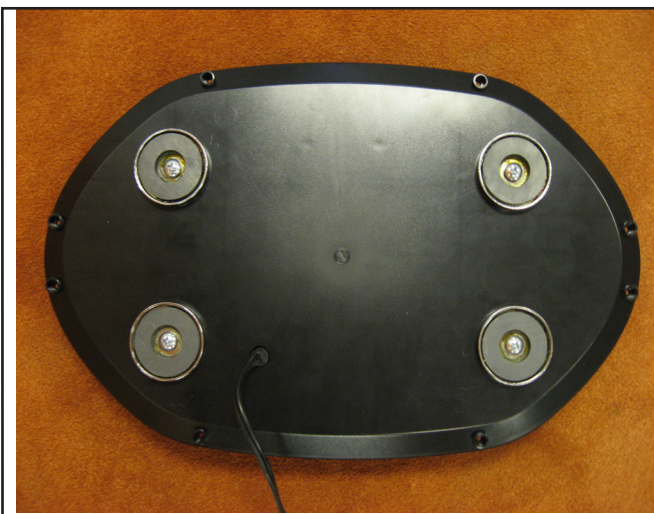
Magnetic Mounting:

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

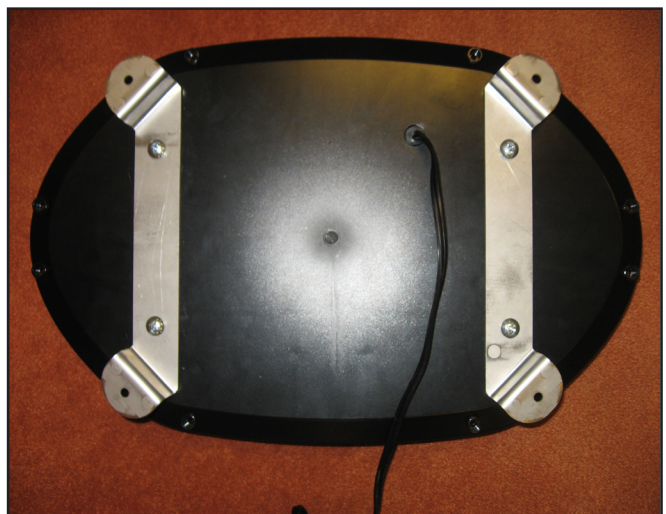
Permanent Mount:

For Permanent Mount applications, the light plug with rocker switch may be removed and directly wired to the vehicles power supply. Make sure to properly fuse the beacon with 10A fuse.

Magnetic Mount



Permanent Mount



Operation:

Setting the Flash Pattern:

This beacon is equipped with a capacitive touch pattern selector function. To change flash pattern, simply power on the beacon and then touch (with your finger) the center of the upper lens. Scroll through all of the flash patterns by continuing to momentarily touch the center of the upper lens. Due to the capacitive touch feature, this beacon also has special "locking" features for the flash patterns. Holding your finger to the center of the upper lens for certain amounts of time function the unique features of the bar.


TIME	FUNCTION
0 ~ 1 second	NEXT PATTERN / ON
1 ~ 3 seconds	PREVIOUS PATTERN
3 ~ 5 seconds	FACTORY DEFAULT(PATTERN 1)
5 ~ 8 seconds	LOCK/UNLOCK PATTERN

Flash Patterns:

PATTERN NO.	PATTERNS
1	Single flash 75 sim all flash(factory Default)
2	Single flash 75 right-left
3	Single flash 375 right-left
4	Single flash 75 RIGHT/LEFT-FRONT/REAR
5	Single flash 75 Diagonal
6	Single flash 75 clockwise
7	Single flash 75 clockwise
8	Single flash 75 in-outward
9	Single flash 75 center-split
10	Single flash 75 flash
11	Double flash 75 sim all flash
12	Double flash 75 right-left
13	Swiftflash 75 sim all flash
14	Swiftflash 75 right-left
15	Quad Flash 75 sim all flash
16	Quad Flash 75 right-left
17	Five flash sim all
18	Five flash right-left
19	Modulation action flash sim all
20	AUTORUN
21	OFF

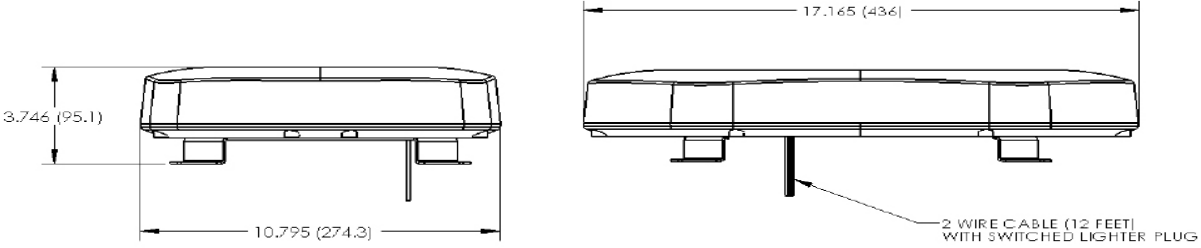
Maintenance:

The beacons are completely sealed units designed to be maintenance free. Refer to the guide below for help with troubleshooting. Should the unit be diagnosed as malfunctioning, remove unit and replace with a new module.

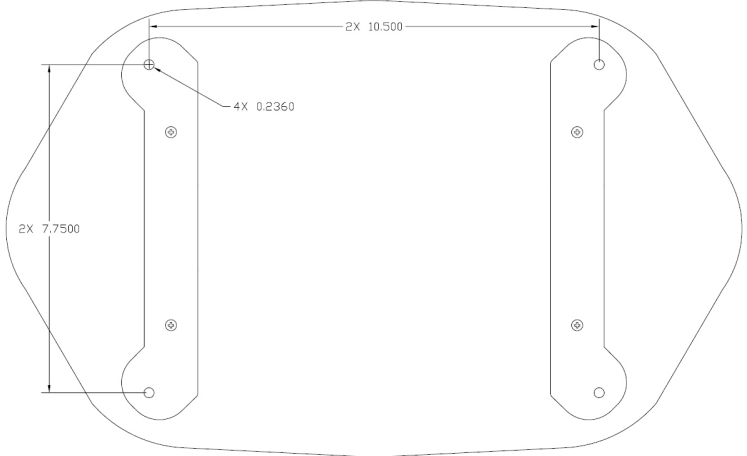
WARNING!  LED module housings may become hot with extended use. Allow modules to cool completely before attempting to remove.

TROUBLESHOOTING		
Problem	Probable Cause	Remedy
Lighthouse does not activate	a. No power to unit	a. Check wire for loose connection
	b. Power input wire reversed	b. Reverse power wires
	c. Damaged or shortaged cabling	c. Check cables for damage
	d. Defective lighthouse	d. Contact Service Dept.
Pattern does not change	a. Unit in Lock Mode	a. Unlock Flash Patterns

Dimensions (shown with permanent mount brackets)



Permanent Mounting Hole Locations



NOTES

WARRANTY

Code 3, Inc.'s L.E.D. emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3, Inc. guarantees all parts and components except the lamps to a period of 1 year, LED Lighthouse modules to a period of 5 years (unless otherwise expressed) 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 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. Code 3, Inc. 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.

CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.

PRODUCT RETURNS

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3, Inc. 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.

*Code 3, Inc. reserves the right to repair or replace at its discretion. Code 3, Inc. assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair; nor for the packaging, handling, and shipping; nor for the handling of products return to sender after the service has been rendered.

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