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LEDB-2-PMK

INSTALLATION & MOUNTING

The LEDB-2-PMK beacons are designed to operate on 12-48 Volt DC negative ground (earth) systems.

1. Route the user's wiring from the unit into the engine or passenger compartment. Use grommets and apply sealant if needed to keep water out. Use #18 GA or larger wires.
2. Connect the black lead from the unit to a solid frame ground (earth), or preferably the negative terminal of the battery.
3. Connect the red lead from the unit to one side of user supplied control switch.
4. Connect the other terminal of the switch through a fuse or circuit breaker to the positive terminal (+) of the battery or to the stud on the battery side of the starter solenoid or alternator. The fuse or breaker should be rated for 10 Amps. Be aware that circuit breakers and fuses are heat sensitive devices. Mounting them in high temperatures may cause "false tripping." Reversing the power connections will activate the reverse polarity protecting, resulting in no light output. To correct, properly connect the red to (+) and the black to (-) earth.

NOTE: Crimped connectors tend to fail over time. Screw-type terminal blocks or soldered connections provide much higher reliability.

5. The white control wire may be left unconnected. It can also be connected to GRND through a momentary push-button switch, and be used for programming the operation mode.

NOTE: The white wire should not be connected to a positive voltage under ANY circumstances.

PERMANENT MOUNTING

- Using the base as a template, mark and drill (3) holes for mounting and (1) to route the wiring in the desired location. Check carefully before drilling to avoid damaging wiring or other vehicle components; seal wire entry hole to prevent moisture entry and protect wires from abrasions.

MAGNETIC MOUNTING

- Attach the magnetic base to a smooth, clean and flat surface.
- To operate: plug coil cord into a 12 or 24 Volt DC cigarette lighter; rotate and push firmly to insure the best possible connection.

PIPE MOUNTING

- The LEDB-2 beacon pipe mount kit will accept a standard 1/2" NPT pipe flange onto the beacon base. Four slotted holes are provided in the adapter plate to accommodate the hole spacing of various pipe flanges.
- Attach the adapter plate to the pipe flange, then to the beacon. Locknuts should be used to prevent the unit from working loose from the mounting.



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- Route the wiring as recommended and turn the beacon clockwise onto the pipe by hand until secure. DO NOT over-tighten.

FLASH MODES

1. Cycle Flash: Cycles through triple, quad, double, fast, and single modes at approximately 109 fpm.
2. Triple Flash: Three consecutive pulses per flash at approximately 75 fpm.
3. Quad Flash: Four consecutive pulses per flash at approximately 60 fpm.
4. Double Flash: Two consecutive pulses per flash at approximately 75 fpm.
5. Fast Flash: Single flash pattern at 90 fpm.
6. Single Flash: Single flash pattern at 75 fpm.

Flashing Current Draw-Single LED Beacon

Red/Amber: 0.25 Avg. Amp

Blue: 0.25 Avg. Amp

Flashing Current Draw-Single LED Beacon

Red/Amber: 0.75 Avg. Amp

Blue: 0.75 Avg. Amp

PROGRAMMING

Programming the desired flash pattern (or operation mode) is done with the BLUE control wire. You can scroll through the six available flash patterns by momentarily grounding the BLUE control wire until you arrive at the desired operation mode. Momentary grounding the blue wire can be accomplished either by touching the wire to GND, or through a momentary push-button switch.

The unit will come on in default Cycle flash mode at the time of first power-up, until the desired flash pattern is programmed. The default flash pattern can then be changed by programming the desired pattern into the unit. The unit will continue to operate in the same mode every time until the unit is turned off and turned back on. The default flash pattern can be changed at will any number of times.

The unit can be reset back to the default flash pattern (cycle flash) by grounding the BLUE wire for about 8-10 seconds and then releasing it. This can be done while operating in any of the flash modes.

MAINTENANCE

The LEDB-2 beacons are completely sealed units to be maintenance free. Refer to the guide below for help with trouble shooting. Should the unit be diagnosed as malfunctioning, remove the unit and replace with a new module. No parts are accessible for repair or replacement.

WARNING: LED module housings may become hot with extended use. Allow modules to cool completely before removing.



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TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY
Lighthouse does not activate	* No power to unit * Power input wire reversed * Damaged or shorted cabling * Defective lighthouse	* Check wiring for loose connection * Reverse power wires * Check cables for damage * Replace lighthouse module
Lighthouse is constantly ON	* Control wire permanently grounded or shorted to GND	* Avoid permanent grounding of control wire