

Multifunction bicycle light operation instructions :

1. Mounting the light:

Install the light on the 1/4" hole of rear reflector stand (after removing the Reflector). If your bike does not have a rear reflector stand, obtain one or a saddle post reflector stand (clamp).

2. Off-On-Blink pushbutton switch

Located rear of light case under yellow cap and operates as followings:

Power up 5 LED's blinking -----> Off -----> Taillight -----> Off-----> 7 LED's blinking -----> Off -----> Taillight ----->.....repeating

3. Changing batteries:

A. Unscrew 2 flathead screws to open the enclosure.

B. Install new batteries pay attention to + or — direction.

C. Lay the paper over batteries.

D. Lay the printed circuit board on top of contacts, the lens on top of it so that the logo is

On the opposite side of jacks below it on circuit board. 5 LED's should blink

Indicating batteries, contacts, paper and board are correctly placed and the board contacts to batteries are made.

E. Screw one flat head screw few turns, then turn the second. Do not turn one screw all the way before you start the second.

F. Place the yellow O ring in place when screws are almost tighten, then tighten both screws, turn off from power up's 5 LED blinking pattern and on again ,all 7 LED's should light.

4. Batteries:

Use AA batteries, the light functions from fully charged 1.65 V down to 1.35 V.

This light will not work with rechargeable batteries that are 1.20 V charged.

5. Installing brake sensor:

A. Install the flat metal piece on the rear brake pad mounting screw, you may need to cut the end cap of brake wire, which can be done with a sharp dice. Add an end cap to wire after done.

B. Mount the brake sensor housing on the bicycle frame using a tie wrap, do not tight until done with step D. below.

C. Plug the brake sensor into the jack labeled "brake", the light should be "ON"

D. Bend and shape the flat metal piece such that it would fit into the sensor gap and block when not braking and move out slightly when braking (bend like "L" for 10 speeds and like "U" for mountain bikes brakes as samples), adjust to make sure braking will turn on the lights and they are off when not braking. Adjust until the light comes on (no brake) then move the flat piece inward to turn off the lights and let it rest, in / out movements of 1/16 " would be sufficient to turn light off / on afterward.

6. Installing turn indicator switch:

A. Mount the "Left None Right" switch housing on handle bar using a tie wrap.

B. Use smaller tie wraps to fasten the wire to bicycle frame.

C. Plug into the jack labeled "signal"

7. Modes of operation(ML-107, ML-407 & SL-107 only):

There are 16 ways that this light could indicate Left/Right, 8 sets of patterns displayed at two different timings, they are referred to as modes 1 through 16. Odd and even modes share same patterns and only differ in animation timing, when you turn the light On (or to Blink) the turn signal mode is 1 (the default). The light is turned On (or to Blink) 4 seconds after you press the "Off-On-Blink" button once, During the 4 seconds one LED is lighted (2 when blink is next), pressing the "Off-ON-Blink" button for the second time during this 4 seconds would advance the mode by one and after mode 16 is selected the next would be mode 1 again. Pressing the "Off-On-Blink" button after the 4 seconds or as soon as the mode is advanced would turn the light Off (brake and turn signals still work) after a second of displaying "X" pattern. Pressing the bicycle brake during the 4 seconds would also advance the mode. To return to mode 1 without advancing modes turn off by pressing

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P.O.Box 21

Niagara University, NY 14109

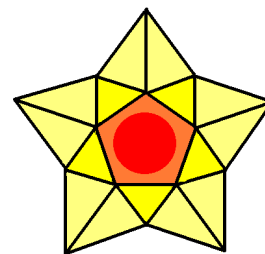
Phone: (716)298-7667

efax: (360)234-5113

e-mail: NYbikelites@gmail.com

web page: <http://www.bikelites.net>

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and holding the "Off-On-Blink" button until "X" disappears. To set the light to "Blink" when the light is "On", turn off and press the "Off-On-Blink" button again. To set the light to "On" when the light is "Blinking", turn off and press the "Off-On-Blink" button again.

8. Variable speed of animation:

After the light is turned On (or to Blink) the speed of animation is slow, normal or fast depending on the position of Left/Right switch at the time you turn the light On (or to Blink). Normally this switch is set to center (no turn signal) and the light is turned on at normal animation speed, if you set the "Left/Right" switch to "Left" and then press to turn On (or to Blink) the light, animation would be at slow rate and setting the switch to "Right" and then press to turn On (or to Blink) would set the light animation to fast rate.

9. Troubleshooting:

A. The light blinks all the times even if the pushbutton switch is pressed:

Batteries are below 1.35 V, replace batteries

B. The light was off but 5 LED's started blinking:

Lose contact, the connection to batteries are lost momentarily and upon contact the light starts with 5 LED's blinking. Tighten the 2 flathead screws more if problem persists open the case, stretch contacts so they press more against batteries and printed circuit Board.

C. Otherwise erratic:

Use 2 AA batteries that do not have metal case, if problem solved look for holes in paper separating batteries from printed circuit board. Replace paper if necessary as solder spots at bottom of board were shorting to battery.

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