

LIMITED LIFETIME WARRANTY

The GEM 2000 is warranted to be free from defects in material and workmanship for the lifetime of the original purchaser. If this product becomes defective, return it along with \$5.00 for shipping & handling to Electrotek R/C and it will be repaired or replaced at no additional charge for material or labor. Electrotek R/C is not responsible for damages or injuries that may result from exceeding its stated application ratings. In the event this product becomes defective from misuse or the abuse of its intended application for R/C models, this warranty shall become *null and void*.

GEM 2000

"Fuel Guardian"

LFI Series
LFI Alert

ELECTROTEK R/C

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LFI Alert (Non G2K Monitoring Version)

The "LFI" Alert System is a uniquely designed instrument that produces a reliable visual warning when fuel has reached a predetermined level. The indication is given by an ultra-brite LED that sharply changes its duty cycle (on/off duration) and flash rate when fuel makes contact with 2 adjustable 1-1/2" probes that are sealed by grommets in the fuel tank. The LED's flash rate, when fuel level is adequate, is about 5hz (5 pulses p/sec.) with an approximate duty cycle of 80/20 (on 80% / off 20%). When the fuel level drops below the probes, the flash is reduced by 70% to about 1.5hz. It is extremely easy to see this radical change in pulsing, even in daylight at a considerable distance.

Since the probes are adjustable the fuel warning can be set to any level you're comfortable with . . . 10%, 15% etc. If your model uses 2 tanks, a "main" and a "hopper", then adjust to indicate when the main tank is empty. Any DC power source can be use from 4 - 6 volts. For example: Plug or "Y" into any RX channel port or use a separate 9v alkaline battery by splicing a 9v snap-on connector onto the "LFI" power lead along with an on/off switch.

NOTE:
To Adjust level, it is only necessary to move one probe up or down. The other probe should be pushed in as far as it will go.

LFI Series (G2K Monitoring Version)

The "LFI Series" version features power & electronic systems monitoring along with low fuel warning. Refer to the main GEM 2000 instruction sheet for information.

Installation:

1. Drill two 15/64" holes 3/8" apart into top of tank about 1/3 - 1/2 way back from front. When positioning probes in this manner, the warning level is adjustable. If probes are inserted through any side of tank, the warning level cannot be adjusted.

2. Carefully insert grommet seals into holes making sure they are properly seated. To make insertion easier, it is recommended that you spray probes with window

cleaner or liquid soap.

3. Insert probes through grommets and position the black probe as far in as it will go. Position the red probe end to desired low fuel warning level. If the above procedure is correctly followed, the tank will have no pressure or fuel leakage. To test, blow into filler tub while blocking off pressure tube.

Lead Modification

If necessary, any or all leads extending from case may be shortened or lengthened to accommodate installation without affecting performance.

False Warning Indications

Normal fuel "sloshing" will not affect the LED'S low fuel indication. When fuel is below level of the probes, the LED's duty cycle and flash rate may change back and forth during "unusual attitudes" or certain maneuvers. To

verify true level of fuel while in operation, tank should be horizontal to ground surface ie, straight and level for a few seconds.