



# LGC-2000 GPS Module

## Installation Instructions

This package contains an LGC-2000 GPS antenna/receiver module with the parts needed for mounting the module on a flat surface or pole. An optional magnet is available for temporary mounting on any ferrous metal surface.

This module is compatible with any NMEA 2000 ready blue connector Lowrance® unit.

Tools required for installation are: wire pliers, flat screwdriver, drill, 1" (25 mm) drill bit and 3/16" (4.75 mm) drill bit.

The LGC-2000 GPS module contains a 12-parallel channel GPS receiver. The LGC-2000 attaches directly to Lowrance products that display GPS position information. It has a blue connector on the end of the cable.

The LGC-2000 requires 9 to 20 volts DC power. It draws power through the unit or from the NMEA 2000 buss (see unit manual for instructions on powering a NMEA 2000 buss).

The GPS module can be mounted on any flat surface, provided there is access behind the mounting surface for the screws. The optional magnet allows the module to be easily used on cars or off-road vehicles. The pole mount adapter lets you mount the antenna on a pole or swivel mount that uses standard marine 1" - 14 threads.

A 25-foot (7.62 m) Y-adaptor extension cable is supplied with the LGC-2000. The extension cable has a male connector on both ends. This is to prevent the user from plugging the LGC-2000 directly into the unit.

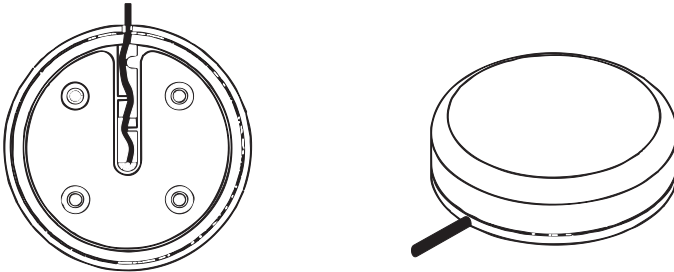
## GPS MODULE INSTALLATION

### Surface Mount

The GPS module can be easily installed on any flat surface that is at least 3-1/2" (90 mm) wide. Be sure that a clear, unobstructed view of the sky is available at the selected location. GPS signals travel "line-of-sight" at very high frequencies, so nearly anything blocking the antenna can stop the unit from finding a satellite. *Caution: Do not mount in line with a radar antenna. Radar radiates high-energy signals that can interfere with GPS signal reception.*

In an automobile, you may achieve good results by simply placing the external antenna on the top of the dash, at the base of the windshield. A piece of the rubber non-skid shelf liner material available in recreational

vehicle supply stores will help hold the antenna in place. This may not work well if you have a cab-over design pickup truck camper or motor home. If dashboard reception is poor, simply relocate the antenna module elsewhere on the vehicle for a clearer view of the sky.



**LGC-2000 Module, bottom view (left) and top view (right).**

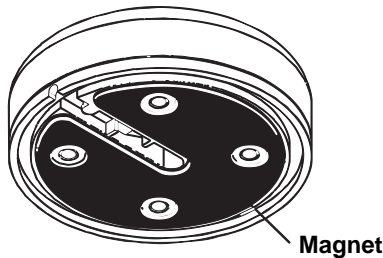
Once you've determined the mounting location, use the template on page 3 to drill the screw holes. The screws supplied with this unit are about 1-1/8" long (4mm x 30mm). Drill 3/16" (4.75 mm) holes for the mounting screws.

If you need to route the cable through the mounting surface, drill a 1" (25mm) hole for the cable's connector. There is a notch in the antenna housing that allows the cable to pass through to the outside, if desired, instead of routing it through the mounting surface.

After drilling the holes, pass the O-ring over the cable and press it into the groove on the bottom of the antenna housing. Now attach the antenna to the mounting surface, using 4mm screws and the supplied lock washers. Route the cable and the GPS module installation is finished.

### **Magnet Mount**

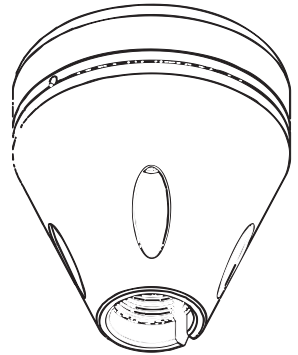
A magnet (available as an option) lets you temporarily mount the GPS module on any ferrous metal surface, such as a car. To use the magnet, simply peel the backing off the magnet's adhesive coating and press the magnet to the bottom of the antenna housing. The module is ready for use.



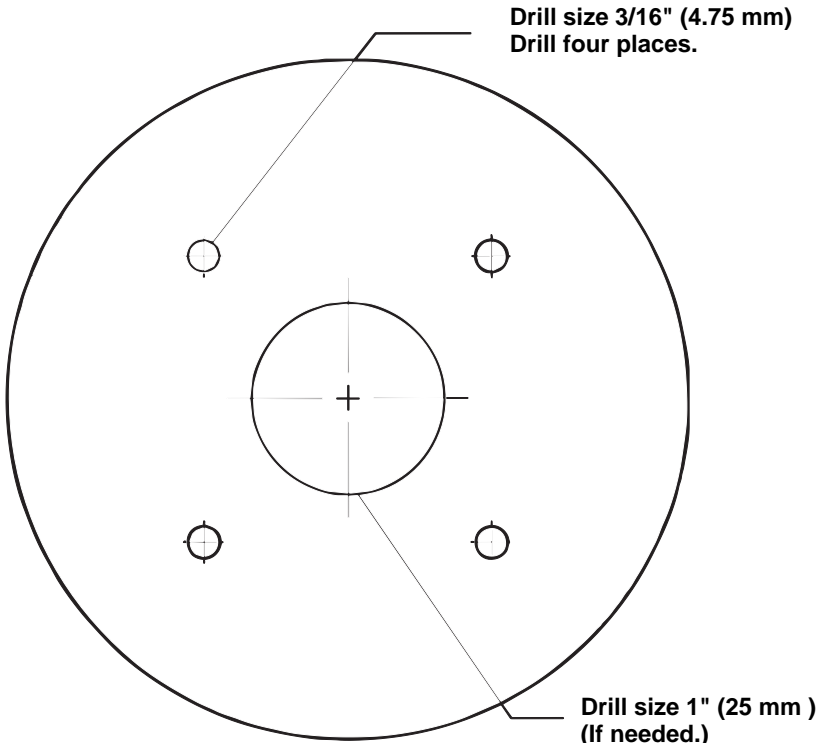
**Under side view showing magnet.**

## Pole Mount

The GPS module attaches to the pole mount adapter with the supplied 4mm screws. You can route the cable through the slot in the side of the module and down the side of the pole. Or, you can pass it down through the pole mount adapter and run the cable inside the pole. The 1"-14 threads on the pole mount adapter accept a standard marine antenna mount.



**Pole mount adapter with module attached.**



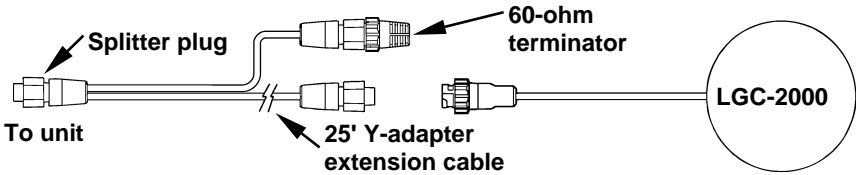
**GPS module mounting template.**

## Connecting the LGC-2000

The LGC-2000 can communicate with your GPS unit either directly (using the supplied extension cable) or through a NMEA 2000 network.

### Connecting Directly to the Unit

After the module is installed, attach it to the end of the Y-adaptor extension cable as shown in the following diagram. To connect it to the unit, insert the extension cable's splitter plug into the Network socket on the back of the unit and your system is ready to use.



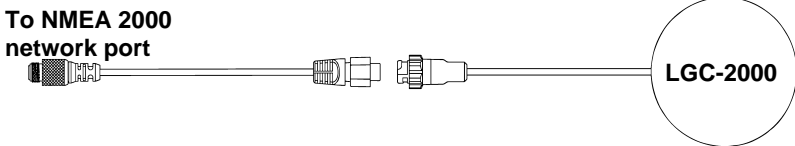
LGC-2000 direct connection to GPS unit.

### NOTE:

The extension cable's shorter branch will have a 60-ohm terminator attached to it. **Do not remove this terminator.** When you're not connecting to a NMEA 2000 buss, you must leave the terminator connected to this socket for your antenna/receiver to function correctly.

### Connecting to a NMEA 2000 Network

The LGC-2000 can be connected to a NMEA 2000 buss, providing GPS information to any Lowrance GPS units attached to the buss. Contact LEI Extras (see back page for contact information) for a NMEA 2000 buss adapter cable if you would like to do this. Simply attach the LGC-2000's connector to one end of the adapter cable and attach the other to an available port on the NMEA 2000 buss, as shown in the following image. (You will have to use a similar adapter cable to connect your Lowrance unit to the NMEA buss. See the unit's manual for complete instructions.)



LGC-2000 connection to NMEA 2000 buss.

### NOTE:

An existing operational NMEA 2000 buss will already have terminators in place and will already be powered. If you're connecting to such a network, you won't need the terminators or extension cable provided. **Do not add** terminators or power to a functional NMEA 2000 buss!

When the LGC-2000 is connected to the unit (directly or indirectly), it will begin providing GPS signal information.

## **LEI EXTRAS FULL ONE-YEAR WARRANTY**

"We," "our," or "us" refers to LEI EXTRAS, INC., the manufacturer of this product. "You" or "your" refers to the first person who purchases this product as a consumer item for personal, family, or household use.

We warrant this product against defects or malfunctions in materials and workmanship, and against failure to conform to this product's written specifications, all for one (1) year from the date of original purchase by you. **WE MAKE NO OTHER EXPRESS WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER CONCERNING THIS PRODUCT.** Your remedies under this warranty will be available so long as you can show in a reasonable manner that any defect or malfunction in materials or workmanship, or any non-conformity with the product's written specifications, occurred within one year from the date of your original purchase, which must be substantiated by a dated sales receipt or sales slip. Any such defect, malfunction, or non-conformity which occurs within one year from your original purchase date will either be repaired without charge or be replaced with a new product identical or reasonably equivalent to this product, at our option, within a reasonable time after our receipt of the product. If such defect, malfunction, or non-conformity remains after a reasonable number of attempts to repair by us, you may elect to obtain without charge a replacement of the product or a refund for the product. **THIS REPAIR, OR REPLACEMENT OR REFUND (AS JUST DESCRIBED) IS THE EXCLUSIVE REMEDY AVAILABLE TO YOU AGAINST US FOR ANY DEFECT, MALFUNCTION, OR NON-CONFORMITY CONCERNING THE PRODUCT OR FOR ANY LOSS OR DAMAGE RESULTING FROM ANY OTHER CAUSE WHATSOEVER. WE WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO ANYONE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR OTHER INDIRECT DAMAGE OF ANY KIND.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty does NOT apply in the following circumstances: (1) when the product has been serviced or repaired by anyone other than us; (2) when the product has been connected, installed, combined, altered, adjusted, or handled in a manner other than according to the instructions furnished with the product; (3) when any serial number has been effaced, altered, or removed; or (4) when any defect, problem, loss, or damage has resulted from any accident, misuse, negligence, or carelessness, or from any failure to provide reasonable and necessary maintenance in accordance with the instructions of the owner's manual for the product.

We reserve the right to make changes or improvements in our products from time to time without incurring the obligation to install such improvements or changes on equipment or items previously manufactured.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

**REMINDER:** You must retain the sales slip or sales receipt proving the date of your original purchase in case warranty service is ever required.

**LEI EXTRAS  
PO BOX 129, CATOOSA, OK 74015**

# How to Obtain Service...

## ...in the USA:

Contact the Factory Customer Service Department. Call toll-free:

**For Lowrance: 800-324-1356. For Eagle: 800-324-1354**

8 a.m. to 5 p.m. Central Standard Time, M-F

*Lowrance Electronics and Eagle Electronics may find it necessary to change or end their shipping policies, regulations and special offers at any time. They reserve the right to do so without notice.*

## ...in Canada:

Contact the Factory Customer Service Department. Call toll-free:

**800-661-3983**

**905-629-1614 (not toll-free)**

8 a.m. to 5 p.m. Eastern Standard Time, M-F

## ...outside Canada and the USA:

Contact the dealer in the country where you purchased your unit. To locate a dealer near you, see the instructions in paragraph number 1 below.

## Accessory Ordering Information

LEI Extras™, Inc. is the accessory source for sonar and GPS products manufactured by Lowrance Electronics and Eagle Electronics. To order Lowrance or Eagle accessories, please contact:

1) Your local marine dealer or consumer electronics store. To locate a Lowrance dealer, visit the web site, [www.lowrance.com](http://www.lowrance.com), and look for the Dealer Locator. To locate an Eagle dealer, visit the web site, [www.eaglesonar.com](http://www.eaglesonar.com), and look for the Dealer Locator. Or, consult your telephone directory for listings.

2) U.S. customers: LEI Extras Inc., PO Box 129, Catoosa, OK 74015-0129  
**Call toll free in the U.S., 800-324-0045**, 8 a.m. to 5 p.m. Central Standard Time, M-F, or visit our web site [www.lei-extras.com](http://www.lei-extras.com).

3) Canadian customers: Lowrance/Eagle Canada, 919 Matheson Blvd. E. Mississauga, Ontario L4W2R7 or fax 905-629-3118.

Call toll free in Canada, 800-661-3983, or dial 905 629-1614 (not toll free), 8 a.m. to 5 p.m. Eastern Standard Time, M-F.



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