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EFG-4000 USER'S GUIDE

THIS INFORMATION PACKET INCLUDES THE FOLLOWING INFORMATION.

ASSEMBLY INSTRUCTIONS: One set of instructions for unpacking and installing the gauge and probe on your new empty tank or to a tank already are in use. Please follow these instructions carefully.

GAUGE CALIBRATION INSTRUCTIONS: The calibration is much like programming a digital watch. Please follow these instructions closely. You will be asked to determine the shape of the tank and the actual tank capacity. Your gauge has been calibrated at the manufacturer. Programming the gauge is easily accomplished in the field. An "off set" option is available which can either add to, or subtract from the liquid value of the tank, depending on your specific calibration needs. (Refer to calibration instructions)

WARRANTY: A detailed copy of the terms and conditions of product application and warranty.

REPAIR AND RETURN POLICY: We service what we sell. Products under warranty may be sent back to Greenleaf Gauge, Inc. for replacement or repair. Products past the warranty period may be returned to Greenleaf Gauge, Inc. for repair or a core refund toward the purchase of a new gauge.

GENERAL PRODUCT INFORMATION

OPERATION:

The probe that is used with this gauge has been custom designed according to your specifications. These include: 1. Type of liquid to be measured. 2. Height of tank. 3. Capacity of tank 4. An accurate measurement from the top of the pipe nipple that the gauge is to be installed on, to the bottom of the tank. Use of this probe on a tank other than the one it was custom designed for, or in a product other than the one it was designed for, may provide inaccurate results. When properly installed, the probe must never contact the bottom of the tank, rest against the side of the drop tube (if used) or be allowed to touch any internal structures.

POWER:

The EFG-4000 is powered by a 3.6 volt high energy lithium battery. Projected life of the battery has been determined to be between five (5) and eight (8) years. The manufacturer recommends that the battery be replaced by the customer every five (5) years to eliminate any reduction in performance. Batteries are available through Greenleaf Gauge, Inc. or can be purchased at quality electronic supply stores.

MEASUREMENTS:

The EFG-4000 will display up to four digits, and can be programmed to show measurable units in gallons, liters, pounds, inches or % full. The same four digit display is used during setup, calibration, and to display operation or error messages.

INSTALLATION:

The EFG-4000 must be installed in accordance with your local regulations and manufacturer's specifications. Failure to do so may affect the long term service of the gauge and may void the warranty. Any regulatory issues should be directed to your local entity having jurisdiction over issues involved.

IMPORTANT NOTICE:

The EFG-4000 is to be used only as a general accuracy liquid level monitor and should not be relied upon by the operator to prevent a tank overflow. The operator must monitor the tank filling process and prevent any overfills regardless of the status of the gauge.

HELP: For technical help please contact us at 208-453-1714, or toll free 888-88-GAUGE (888-884-2843). Our fax numbers are 208 459-3365, or 888-884-4145. Or visit us online at www.solargauge.com.

ASSEMBLY INSTRUCTIONS

Please remember that even though the probe is well made, the material is very thin walled and needs to be handled with care at all times.

NOTICE TO TANK MANUFACTURERS AND DISTRIBUTORS

We recommend the gauge and probe be installed at the final destination. If it is necessary to install the gauge and probe before shipping to the final destination, the probe may be allowed to swing freely in the tank but precautions must be taken to eliminate it from “hanging up” on any internal tank structures. The probe must not be allowed to rub on anything in the tank during normal operation or it will severely reduce the accuracy of the gauge.

TO ASSEMBLE “ONE SECTION” PROBE

1. Remove the probe and the gauge from the shipping boxes. Take care to remove all packing materials (bubble wrap, tape, etc.) from the units. NOTE: Included in the information packet with the gauge, is a metal clamp. Attach the clamp near the top of the probe during installation. This clamp will keep the probe from falling into the tank during assembly. (See **Figure 1**) DO NOT REMOVE THIS CLAMP UNTIL INSTRUCTED TO DO SO AFTER CONNECTING THE PROBE TO THE GAUGE.

2. Insert the probe down into the 2" pipe nipple. Be sure the clamp is attached near the top of the probe, and rests on the top of the pipe nipple to prevent dropping the probe into the tank. Apply a good pipe thread sealant to the 2" pipe nipple threads. Connect the probe to the gauge.

3. To connect the probe to the gauge, simply snap the free end of the chain on the top of the probe into the end coupling connected to the split ring located at the bottom of the transducer. (See **Figure 2**) Once this has been done, remove the clamp from the probe and screw the gauge head onto the pipe nipple. Care must be taken to ensure that you do not cross thread the gauge as you screw it onto the nipple. **When the tank is empty the probe should never touch the bottom of the tank. Adjust the bead chain so that the bottom of the probe is 2” to 3” above the bottom of the tank when empty. Refer to INSTALLER NOTICE attached to gauge before installation.**

This gauge has been pre-calibrated at the manufacturer. Please refer to the gauge and probe packing slips for details. If your gauge or the float specifications do not match your tank dimensions and requirements, you may need a different probe and the gauge will need to be calibrated. If you need to calibrate the gauge, this can be easily accomplished by following the instructions page titled CALIBRATION.

TO ASSEMBLE “MULTI-SECTION” PROBES

After removing the probe sections from the shipping container and removing the packing materials, it is necessary to connect the sections of the multi-section probe together. (See **Figure 3**) Sections may be lowered into the tank beginning with the bottom section, using the clamp referred to in step 1 above. As the sections are connected, move the clamp up and connect the next section. Carefully slide the sections together over the joining plug and align the matching colored arrows. After each section has been pushed together, insert the included cotter pin into the hole through the joining plug and spread. After the probe sections have been connected and the cotter pin(s) inserted properly, connect the multi-section probe to the transducer. To connect the probe to the gauge, follow instructions #1, #2 and #3 in above sections.

HELP: For more detailed technical support please call us at 208-453-1714, or toll free at 888-884-2843, or visit our web site online at www.solargauge.com.

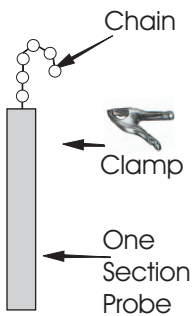


Figure 1

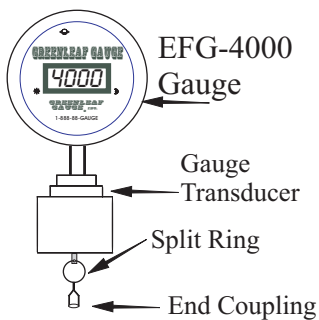


Figure 2

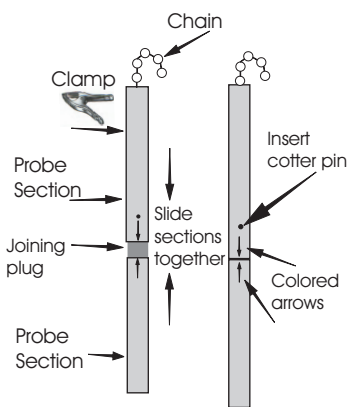



Figure 3

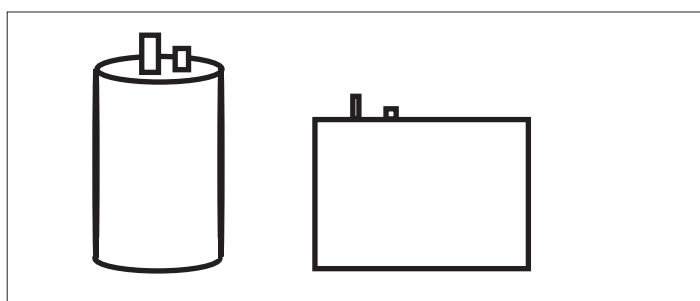
PROGRAMMING INFORMATION

EFG-4000

Included with the EFG-4000 is a 6" pocket magnet. This is the tool used in the calibration of the gauge. On the face of the gauge, you will find three symbols which are also important to the calibration process. These three symbols are: 

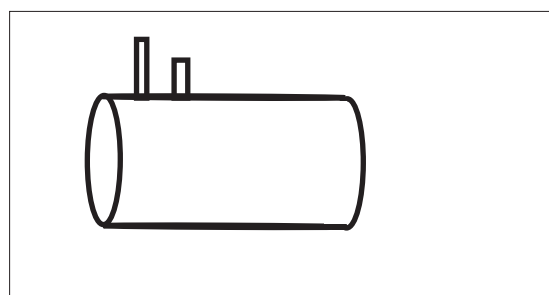
PLEASE READ ALL INSTRUCTIONS BEFORE PROGRAMMING THE GAUGE.

Prior to calibration, determine what shape of tank the gauge will be used on. See diagrams below.



STRAIGHT TANKS

OR



ROUND TANKS


SYMBOLS USED DURING CALIBRATION MODE:

- | | | | |
|---------------|-------------------------------|---------------|--|
| - - - - | Tank select mode | - <i>LP</i> - | Low calibration point |
| - <i>00</i> - | Round tank program or | - <i>HP</i> - | High calibration point |
| - <i>11</i> - | Straight tank program | - <i>05</i> - | Off set value (Optional input) |
| - <i>PP</i> - | Program tank capacity | - <i>E5</i> - | End of setup mode |
| <i>P***</i> | Extends range to 10,999 units | (*) | <u>Represents any numerical value, 0 through 9</u> |

SYMBOLS THAT MAY BE USED DURING OPERATING MODE:

- | | | | |
|-------------|--|---------------|---|
| <i>HELP</i> | Gauge may alternate <i>HELP</i> with one of the following error messages. DO NOT FILL TANK until the problem has been corrected and the gauge is operating properly. | | |
| -*** | Negative number- the gauge has gone below the determined zero level | <i>H***</i> | Reading has gone past gauge's maximum display capabilities of 9999 units. |
| <i>EEEE</i> | Measurement has exceeded the set capacity limit, or float is resting on the bottom of the tank | - <i>LB</i> - | Internal power or connection failure. |
| | | - <i>EE</i> - | Reading has gone below extended range. |
| | | (*) | <u>Represents any numerical value, 0 through 9</u> |

FOR TANKS OVER 11,000 MEASURABLE UNITS:

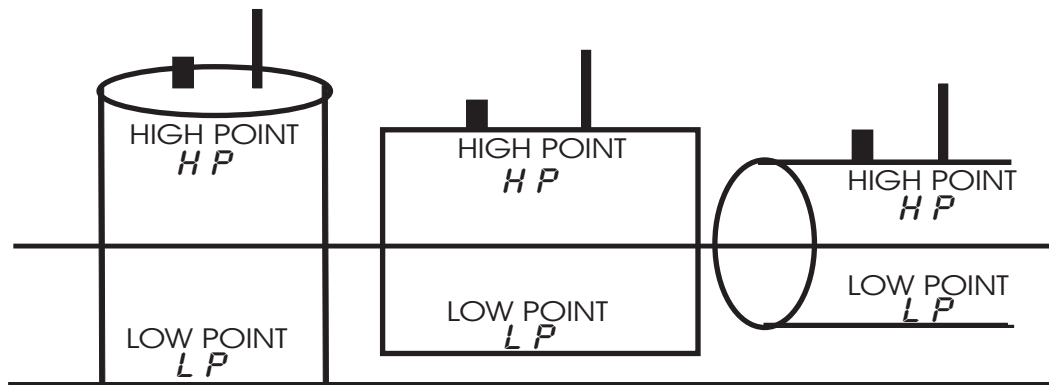
If the tank to be measured is larger than 10,000 units, Greenleaf Gauge offers a  **SOLAR GAUGE™** model EFG-8000 which allows the operator to take accurate measurements up to 99,990 measurable units. For more information, contact your equipment distributor or Greenleaf Gauge at 208-453-1714 or toll free 888-88-GAUGE (888-884-2843).

CALIBRATION INSTRUCTIONS



Before proceeding with calibration instructions, please read and understand the following information.

This gauge has been calibrated by the manufacturer to your tank specifications. Refer to gauge order information form that accompanied the gauge. If it is necessary to re-calibrate, follow these instructions carefully. **NOTE:** Calibrating your gauge can *usually* be accomplished by adjusting the LOW POINT calibration value ONLY.



The LOW POINT calibration value (- LP -) represents the number of gallons (or other measurable units) at the bottom of the tank that the gauge can not effectively measure. This value is equal to 2” to 5” of liquid depending on tank height. LOW POINT calibration adjustments are able to compensate for some minor inaccuracies in probe positioning and gauge readings.

The HIGH POINT calibration value (- HP -) is obtained from the published literature that was attached to the gauge when shipped. This value is **approximately** 75% of the tank capacity. Provided the density of the liquid in the tank is the same as the gauge was ordered for, the HIGH POINT calibration value should never need to be changed.

TANK CAPACITY:




One of the most important required calibration points for this gauge is the actual capacity of the tank. If the value is not accurate (***the exact tank capacity***) the gauge will automatically begin with a “built in” percentage of **error**. If there is a manufacturer’s tank chart available that is used with a stick, that is the capacity that should be used on the gauge setting for (- PP -) in the calibration process. ***Any deviation from this will result in an inaccurate measurement of the liquid level in the tank.*** Refer to mathematic formulas in the trouble shooting section to compute the exact capacity of the tank.

REMEMBER:

The accuracy of this gauge depends on the accuracy of the ordering information provided, accuracy of probe installation, and the accuracy of the information programmed into the gauge.

During the calibration process, the gauge will automatically go to “normal” operating mode if too much time lapses between calibrating steps. If this occurs, go back into the calibration by starting at the top of the menu. Unnecessary steps can be passed through at any time simply by touching the PLANET symbol again and not changing the displayed values with the star or moon symbols.

CALIBRATION

STEP 1: TANK SHAPE: Hold the end of the magnet on the PLANET  symbol until the gauge displays ----. This indicates the beginning of the programming cycle. After removing the magnet, the display will read - 1 1 - for “straight” tanks, or - 0 0 - for “round” tanks. To switch the type of tank, hold the magnet to either the STAR  for “straight” style tanks (- 1 1 - will be displayed to signify a straight tank), or the MOON  for “round” style tanks (- 0 0 - will be displayed to signify a round tank).

STEP 2: TANK CAPACITY: Hold the magnet to the PLANET and - P P - will appear. Remove the magnet and adjust the number shown to match the actual tank capacity. The correct tank capacity is critical to the accuracy of the gauge. Formulas for computing the tank capacity may be found in the troubleshooting section. To increase the numerical display, touch the magnet to the MOON, to decrease the numerical display, touch the magnet to the STAR. If you go past the desired value on the display, simply reverse the direction by using the other symbol. Continue in this manner until the desired value is displayed on the gauge.

STEP 3: LOW CALIBRATION LEVEL: Hold the magnet to the PLANET symbol and - L P - will appear. Adjust the LOW POINT to compensate for most inaccuracies in the gauge reading. With vertical tanks this is a 1:1 adjustment. If gauge displays more than the actual amount, decrease the low point value by that exact amount. If the gauge displays less than the actual amount, increase the low point value by that exact amount. **EXAMPLE:** Actual volume = 500 gallons, gauge displays 450 gallons, current low level point is 100. To increase displayed amount increase the LOW POINT value by 50 (difference between actual volume and displayed volume) to a value of 150. Horizontal cylindrical tanks are adjusted in the same manner, however the change is not a 1:1 ratio, and may require more than one attempt to make the correct change. **DO NOT SET THE LOW POINT TO THE CURRENT TANK VOLUME.** To adjust the LOW POINT, touch the magnet to the STAR or MOON symbols to enter the desired low calibration value. Use the STAR symbol to decrease the value, or the MOON symbol to increase the value. If your desired adjustment cannot be accomplished by changing the LOW POINT, call Greenleaf Gauge for technical assistance.

STEP 4: HIGH CALIBRATION LEVEL: Hold the magnet to the PLANET symbol and - H P - will appear. The high level calibration value sets the gauge for proper liquid densities. i.e. Different types of fuels. This value has been published on the gauge order form attached to the gauge when shipped. Once this value is set, there is no need to change it unless the density of the liquid in the tank is different than that for which the gauge was originally ordered. If it becomes necessary to change the high level, contact Greenleaf Gauge for technical assistance.

STEP 5: is optional. Determine whether or not you want to use the OFF SET adjustment feature. This value can be entered as a positive amount which will add to the displayed amount, **OR** can be entered as a negative amount which will subtract from the displayed amount. Leaving the value of the off set at 0 0 will eliminate this option during normal operation. If you decide at a later date to activate this feature, simply go back through the menu and enter the off set value you wish. Touch the magnet to the PLANET symbol again and - 0 5 - will appear. To enter a negative off set value hold the magnet to the STAR symbol and a negative number will be shown. This value will automatically be **subtracted from** the displayed amount. To enter a positive off set value hold the magnet to the MOON symbol and a positive number will be shown. This value will automatically be **added to** the displayed amount. This feature can be used to account for the amount of “dead fuel” at the bottom of the tank which can never be pumped from the tank, or as an additional adjustment to the desired display on the gauge.

STEP 8: Hold the magnet on the PLANET symbol until the gauge displays - E 5 -. At this point the calibration process has been completed.

HELP: For technical support please call us at 208-453-1714, or toll free at 888-88-GAUGE. (888-884-2843). Fax 208-459-3365, or toll free fax 888-884-4145.

TROUBLESHOOTING

Possible error messages that may be displayed on EFG-4000 model Solar Gauge.

- HELP** Gauge will alternate the *HELP* error message code with one of the following error messages to help identify the problem area to correct. DO NOT FILL TANK until the problem has been corrected and the gauge is operating properly.
- *** Indicates a negative number. It may continue into the extended range until the gauge displays -EE-. For accuracy, the gauge should be re-calibrated. (*) Represents any numerical value, 0 through 9.
 - EE- Reading has gone below the extended range. Re-calibrate gauge to correct error.
 - EEEE Measurement has exceeded the set capacity of the tank. This could be due to an overfill, or the float is resting on the bottom of the tank from improper installation. Check measurements &/or re-calibrate.
 - LB- Internal power or connection problem

PRIOR TO CONTACTING GREENLEAF GAUGE FOR TECHNICAL SUPPORT, PLEASE VERIFY ORDER INFORMATION, GAUGE SETTINGS, AND COMPLETE THE FOLLOWING INFORMATION.

1. Gauge Serial # _____
2. Order # (if known) _____
3. **Accurate** measurement from bottom of tank to top of pipe nipple _____
4. **Actual** capacity of tank. Refer to formulas below. _____
5. Type of liquid in the tank _____
6. Current liquid level (inches or gallons) Please be accurate _____
8. Error messages displayed on gauge console _____
7. Changes or adjustments to original equipment _____
9. Other information _____

TO DETERMINE GALLONS PER TANK

Cylindrical tanks- measure in inches:

Length X Diameter X Diameter X .0034 = Gallons

(Diameter = Circumference divided by 3.14)

Rectangular tanks- measure in inches:

Length X Width X Depth X .004329 = Gallons

TECHNICAL ASSISTANCE

Greenleaf Gauge
P. O. Box 309
Greenleaf, ID 83626
888-884-2843
208-453-1714
Fax 208-459-3365
e-mail: itm2@cableone.net
Web site www.solargauge.com

SPECIFICATIONS Model EFG-4000

Supply Source.....	3.6 volt High Energy Lithium battery Customer replaceable
Accuracy.....	+ / - 1.0% optimal + / - 2.0% typical
Housing.....	Aluminum - 4" diameter x 1.75" D Total height - 9"
Indicators.....	4 digit LCD digital
Operating Temperature.....	-30° F to +140° F
Warranty.....	1 year

IMPORTANT NOTICE:

The EFG-4000 is to be used only as a general accuracy liquid level monitor and should not be relied upon by the operator to prevent a tank overflow. The operator must monitor the tank filling process and prevent any overfills regardless of the status of the gauge.

REPAIR AND RETURN POLICIES

REPAIRS

In the event you have a problem with this product, it may need to be returned to Greenleaf Gauge for repairs. Before returning the product, contact Greenleaf Gauge for warranty status and detailed instructions for returning the gauge. Gauges covered by warranty will be replaced at no cost to the customer, providing the terms of the warranty have been followed. Call Greenleaf Gauge at 208-453-1714 or toll free 888-884-2843 for instructions on returning the gauge. If the gauge is past the warranty period, it may be returned for a core credit toward the purchase of a new gauge providing there are no signs of misuse, abuse, damage, or attempted repair.

RETURNS



To return your gauge for repairs contact Greenleaf Gauge for complete details concerning warranty issues as well as shipping requirements. Greenleaf Gauge. can be contacted at 208-453-1714 or toll free 888-884-2843, our fax number is 208-459-3365 or toll free fax at 888-884-4145, or visit us on our web site at www.solargauge.com.

Repairs and returns will be handled by:

Greenleaf Gauge
P. O. Box 309
20675 N. Friends Rd.
Greenleaf, Idaho 83626

NOTICE TO INSTALLER

DO NOT PROCEED WITHOUT UNDERSTANDING THE FOLLOWING INFORMATION!

1. In an effort to preserve power, this unit has been put into a "sleep mode" for storage and shipping. To take the gauge out of the sleep mode and prepare it for normal operation, touch the PLANET  symbol on the front of the gauge with the red pocket magnet calibration tool. Hold the magnet on the PLANET  symbol only long enough for the display to change. To go into programming mode, hold magnet on planet long enough for - - - - to appear. (See user's guide)
2. This probe and gauge are a matched set. If for any reason they are separated or used in an application other than that which they were intended, re-programming will be required.



PROBE

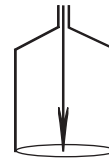
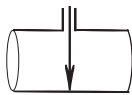


GAUGE

BEFORE INSTALLATION

You **MUST:**

- accurately measure the tank from the top of the 2" pipe nipple the gauge is to mounted on, to the bottom of tank. Refer to drawings below.
- verify the **actual** tank capacity. Using the incorrect tank capacity will give incorrect measurements. Refer to formulas on next page to compute tank capacities.
- be sure the 2" NPT pipe nipple or 2" bung is vertically straight.



Measurement points

This order # _____ Type of liquid _____ Tank capacity _____

The probe for this tank was ordered and custom designed for use in a tank that measures inches from the top of the 2" pipe nipple to the bottom of the primary tank. If the actual distance differs from this amount, you will need to compensate by changing the length of the bead chain used to connect the probe to the gauge. Extra chain and a splicing link have been provided if you need to add chain. The chain can be shortened by cutting it to the desired length, or an additional riser can be installed. Follow the assembly instructions in the *EFG-4000* USER'S GUIDE.

THE PROBE MUST NEVER TOUCH THE BOTTOM OF THE TANK DURING NORMAL OPERATION.



Provided the actual measurements taken at the time of installation are the same as those used to order the gauge, the probe will hang 2" to 5" (depending on tank height) off the bottom of the tank when installed correctly.

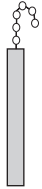
3. If is necessary to calibrate the gauge, refer to the instructions included in the *EFG-4000* USER'S GUIDE included with the gauge.

REFER TO NEXT PAGE FOR TROUBLESHOOTING AND TECHNICAL ASSISTANCE.

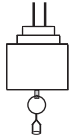
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2. This probe, transducer, and gauge are a matched set. If for any reason they are separated or used in an application other than that which they were intended, re-programming will be required.



PROBE



TRANSDUCER

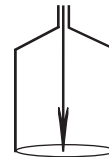
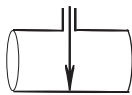


GAUGE

BEFORE INSTALLATION

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- verify the **actual** tank capacity. Using the incorrect tank capacity will give incorrect measurements. Refer to formulas on next page to compute tank capacities.
- be sure the 2” NPT pipe nipple or 2” bung is vertically straight.



Measurement points

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3. If is necessary to calibrate the gauge, refer to the instructions included in the *EFG-4000* USER’S GUIDE included with the gauge.

REFER TO NEXT PAGE FOR TROUBLESHOOTING AND TECHNICAL ASSISTANCE.



TERMS and CONDITIONS of PRODUCT APPLICATION and WARRANTY

WARRANTY. Greenleaf Gauge warrants solely to the first purchaser of new equipment in which a Greenleaf Gauge product has been installed by the original manufacturer of that equipment, or to the original purchaser of Greenleaf Gauge products for the purpose of installation on an existing tank, (referred to as Buyer), that its products shall be free from defects in materials and workmanship, when given normal, proper, and intended usage, for twelve (12) months from the date of sale to the Buyer. Greenleaf Gauge agrees to repair or replace at its option and without cost to Buyer all defective products sold, provided that Buyer has given Greenleaf Gauge notice of such warranty claim within such warranty period. * All products returned for repair or replacement must be sent freight prepaid to Greenleaf Gauge's plant, provided that Buyer first obtained from Greenleaf Gauge a Return Authorization Number (RAN) before any such return. Greenleaf Gauge shall have no obligation to make repairs or replacements which are required by normal wear and tear, or which result in whole or in part, from catastrophe, fault or negligence of Buyer, or from improper or unauthorized use of products, or use of the products in a manner for which they are not designed, or from unauthorized repair or alteration. No suit or action shall be brought against Greenleaf Gauge more than twelve (12) months after the related cause of action has accrued. Buyer has not relied and shall not rely on any oral representation regarding warranty of Greenleaf Gauge products, and any oral representation shall not bind Greenleaf Gauge and shall not be a part of any warranty

THE PROVISIONS OF THE FOREGOING WARRANTY ARE IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED, WRITTEN OR ORAL (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). GREENLEAF GAUGE'S LIABILITY ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF THEIR PRODUCTS OR THEIR USE OR DISPOSITION, WHETHER BASED UPON WARRANTY, CONTRACT, TORT OR OTHERWISE SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID BY THE BUYER FOR THE PRODUCTS. IN NO EVENT SHALL GREENLEAF GAUGE, INC. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, OR LOSS OF USE DAMAGES ARISING OUT OF THE MANUFACTURE, SALE, OR SUPPLYING OF THE GREENLEAF GAUGE PRODUCTS. THIS WARRANTY MAY NOT BE TRANSFERRED TO ANY OTHER PERSON OR ENTITY.

Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

*For service instructions call Greenleaf Gauge at 208-453-1714 or toll free 888-884-2843.

We Service What We Sell

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Greenleaf Gauge

