



INSTRUCTION MANUAL

ForkLine™ Tine Alignment System



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Introduction

Thank you for purchasing the ForkLine™ Tine Alignment System from Laserglow. This fixture is designed to provide a bright and highly visible line for hazard awareness and a wide range of other industrial and commercial applications. This manual contains complete instructions on how to set up and operate your ForkLine™ Tine Alignment System, descriptions of all features, and some troubleshooting tips. If after reading this manual you still have questions about the safe and proper operation of your projector, please contact us and we would be happy to assist you. Our contact information is listed at the bottom of this page



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What Is ForkLine™?

LaserGlow's ForkLine™ Tine Alignment System is a laser guided tool that provides forklift operators a visual reference, enabling them to line up the forks/tines with pallets more easily. The ForkLine™ Tine Alignment System emits an ultra-bright, 520-nm green laser line (which is 5x brighter to the human eye than red laser lines) so the operators know exactly where the fork tips will touch the pallet or materials. The laser is mounted horizontally and can be adjusted vertically, giving the operator a visual guide for placement of the forklift tines. When the laser line hits the opening of the pallet, it disappears, indicating that the forks are correctly aligned with the pallets.

Safety Information

Caution! Failure to observe the precautions in this manual may result in damage to property or serious personal injury.

- ❖ Do not stare directly into the laser module while operational.
- ❖ Keep fingers clear when mounting battery pack to fork trucks.
- ❖ Do not immerse the product in water or place under running water. Doing so will result in permanent damage not covered under warranty.
- ❖ Do not store or use the products near flammable materials or other sources of heat such as smelting equipment, cooking appliances, or open flames.
- ❖ If the product begins to produce smells, smoke, or make abnormal noises, disconnect power immediately and call Laserglow for assistance.
- ❖ Do not touch the electrical connectors or wiring with wet hands, as this may cause electric shock or fire.
- ❖ If the electrical connectors or wiring get wet, wipe with a dry towel. Leaving water or other liquids on these components may result in electric shock or fire.
- ❖ Do not place heavy objects on the products or on electric wiring as this may cause damage that could result in electric shock or fire.
- ❖ Do not disassemble or modify the products. There are no user-serviceable parts inside. Disassembling the products may result in damage or electric shock, and products damaged from disassembly will not be covered by warranty.

Any accidents caused by failure to observe the safety information are the responsibility of the user.



Components

Components:

1. Laser Module
2. Battery
3. Mounting bracket
4. Remote
5. Charger



Specifications

Laser Module

Class:	3R
Colour:	Green
Wavelength:	520nm
Input Voltage:	12 VDC
Mounting Style:	Magnetic
Operating Temperature:	-20 to +70 °C
Ingress Protection:	IP65

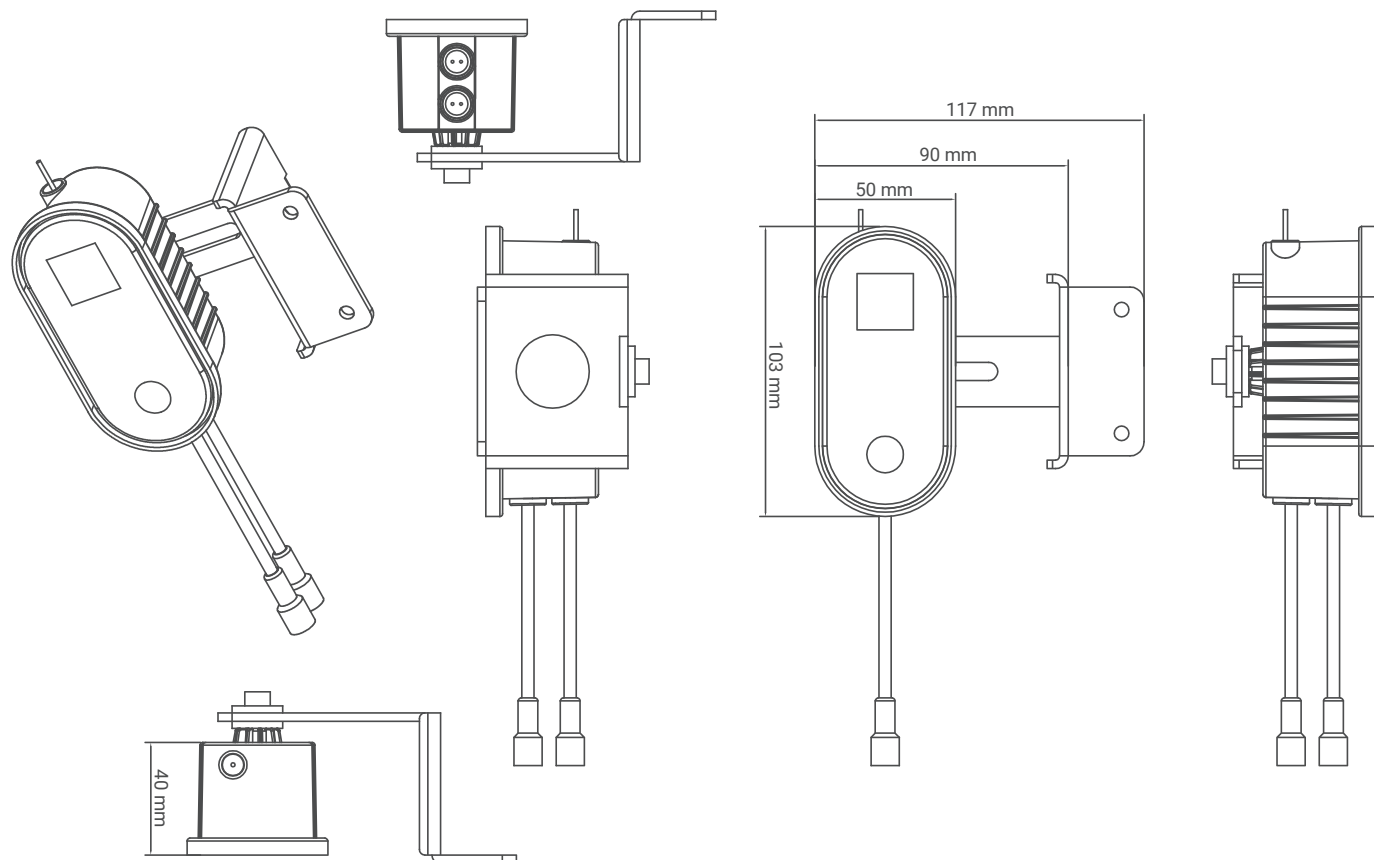
Battery Pack (optional)

Voltage:	11.1 VDC
Current Rating:	2.0A
Capacity:	4000mAh/44.4Wh
Battery Type:	Lithium Ion
Mounting Style:	Magnetic
Operating Temperature:	-20 to +70 °C
Ingress Protection:	IP65
Battery Life:	80 hours on / 400 hours standby



Installation

Attach the laser module to the mounting bracket using the included hardware.



Mount the bracket to the center of the forklift carriage, aligning so that the laser module is approximately level with the top of the forklift's tines.

If using the optional battery pack, mount the battery to the carriage in a safe and non-impeding location. Ensure that the power cables are not going to be pinched, cut, or caught on any moving parts.

If connecting directly with the vehicle's 12V or 24V electrical system, use the open-wire adapter to connect the laser module to electrical power. The laser can be directly connected to the battery pack, or to an electrical circuit that is only powered when the forklift is running such as running lights.

Plug laser module into battery pack or open-wire adapter cable and turn on laser module using included remote. Use the laser line to align the laser module to the top of the forklift tines.

Battery Pack Charging

Use the included charger to charge the battery pack. Plug the charger into a 120 VAC outlet and connect it to the charge port on the battery pack. The LED on the charger will be red while the pack is charging, and it will turn green when charging is completed. Fully charging the battery pack from a depleted state will take about 8 hours. The battery pack can be removed from the forklift to facilitate easier charging.



Warranty Information

LIMITED PRODUCT WARRANTY:

Laserglow Technologies ("Laserglow") warrants that this product is guaranteed to operate within the stated specifications, free from defects in materials and workmanship, for a period of twelve (12) months from the date of delivery.

BEFORE RETURNING ANY ITEM FOR SERVICE, PLEASE CONTACT LASERGLOW TO RECEIVE A RETURN AUTHORIZATION (RA) NUMBER. ITEMS RETURNED WITHOUT AN RA NUMBER MAY INCUR DELAYS OR ADDITIONAL FEES.

LASERGLOW'S PLEDGE TO CORRECT PROBLEMS UNDER WARRANTY:

At its option, Laserglow will either repair or replace the in-warranty defective unit without charging the customer for costs of repair or replacement. When parts or products are replaced under warranty the replaced items will automatically become property of Laserglow. Once an item has been repaired or replaced under warranty, the repaired or replacement item assumes the remaining period of warranty based on the original date of delivery, plus the period of time during which the laser was out of the customer's possession. Within North America only, and within the first 30 days of the warranty period, Laserglow will cover the cost of shipping the defective item back to Laserglow and the cost of shipping the repaired/replacement item to the customer. After 30 days, or for overseas shipments, the customer will cover the cost of shipping the defective item back to Laserglow and Laserglow will cover the cost of shipping the repaired/replacement item to the customer. Where Laserglow covers the cost of shipping, the carrier and method of shipping will be at Laserglow's discretion. Items returned to Laserglow as warranty issues, which upon inspection are deemed not to have any defect, will incur a diagnosis service charge of \$119.

NOT COVERED UNDER THIS WARRANTY:

This warranty will become void if any of the following conditions are met:

- The product has been modified or tampered with in any way.
- The product has been dropped or subjected to shock in excess of 100 G.
- The product has been exposed to water, any liquid, or condensing atmospheric humidity.
- The unit was powered from a source other than those which are specified in the instruction manual.
- The unit was operated in an area with ambient temperature outside of the operating temperature range, as stated in the product specifications and instruction manual.
- The serial number or other identifying marks are removed.
- Ownership of the product has changed. (This warranty is not transferable.)
- The warranty period has expired.

NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY OR GUARANTY, EXPRESSED OR IMPLIED STATUTORY OR OTHERWISE, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND BEYOND THE WARRANTY PERIOD. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM PRODUCT MALFUNCTION, INACCURACY, OR MATHEMATICAL INACCURACY OF THE PRODUCT SPECIFICATIONS. NOTHING IN THIS WARRANTY AFFECTS YOUR STATUTORY RIGHTS.

OTHER BENEFITS (NON-WARRANTY) THAT ARE ACCORDED TO YOU BY LASERGLOW:

10% Replacement/Upgrade Credit: At any time, for the lifetime of the product, you may return the product to us in any condition, functional or not, for a trade-in credit equal to 10% of the original purchase price or 10% of the current retail price, whichever is less. The new product which you select must be of equal or greater value than the trade-in product, based on the value used to calculate the 10% credit amount.

Out-of-Warranty Repairs: The cost of any out-of-warranty repair will be \$80/hr for labor, plus materials.

Rebuild/Complete Product Refurbishment: The cost of a complete rebuild or refurbishment of an out-of-warranty product will be no more than 60% of the current retail price.



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