



## USER'S MANUAL

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## Section 1. INTRODUCTIONS

This Paratrike must be used within the limits and according to the instructions in this manual.

The manual must be on board during flying

In addition to some legal issues we added some important operation informations. In order to fly this paratrike the pilot needs a valid license. There may be additional licenses required if a passenger is on board.

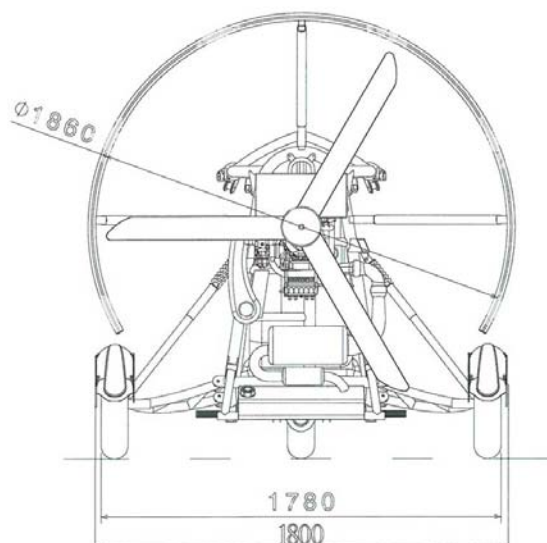
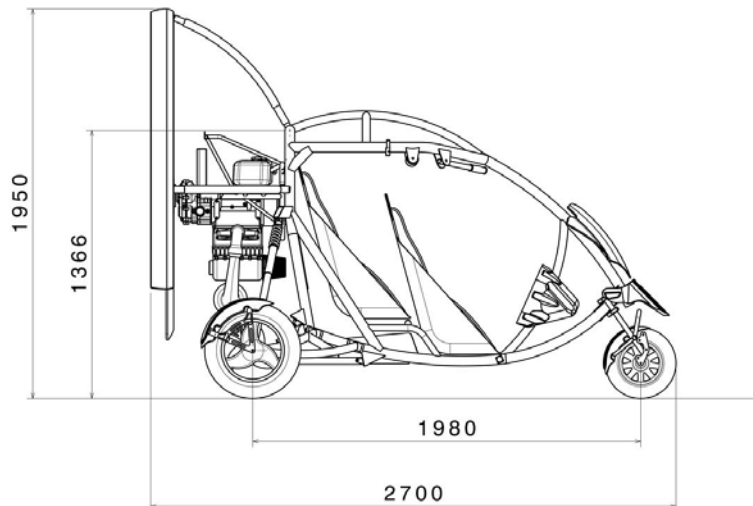
Before flight the pilot must make himself familiar with all the features and characteristics of the Luna.

It is a must to read this handbook properly and to study the Luna trike carefully on the ground.

## Section 2. FEATURES

- Paratrike with steerable front wheel
- Frame made of T.I.G. welded aluminium tube
- Tandem seater
- Springy landing gear, cable operated front brake
- Two stroke in-line engine Rotax 582 with electric starter and centrifugal clutch
- Three-blade propeller 1600 mm, Type Helix R-L-08-3
- Takeoff-weight (max.) 368 kg
- Fuel capacity L 48
- Paraglider: Luna Wing, 28 m<sup>2</sup>, wing span 10 m
- Maneuver speed 60 km/h
- Min. recommended approach speed 40 km/h
- Minimum speed 35 km/h
- The maximum allowed speed must not be exceeded.
- The tire pressure must be between 1,5 and 2 bar on the rear axle and 1 bar on the front wheel.

## Section 3. DIMENSIONS



### Section 4. TRIKE PARTS



### Section 5. ASSEMBLING THE FRAME



Fix the wheels with  
Loctite 243

## Section 6. STANDARD PROCEDURES, CHECKLISTS, ENGINE START

### WARNING

Luna Trike comes without oil mixture lubrication (**Full Synthetic 2T, ASTM/CEC API-TC**), gear oil (**API-GL5 or GL6, SAE 140EP or 85W-140P**) 400 cm<sup>3</sup>, and cooling agent. Take sure to put the exactly quantity of each agent before starting.



Put the secures on drive tap



Oil full synthetic 2T

After first start check all the levels (not of the gearbox).



First, pumping fuel in the carburetors.



1- Move the main switch to the upper ON position.

2 - Move the Master switch to the upper ON position.

3 - Start the engine by pressing the red push button or by using the pull starter on the side of the engine.

## ENGINE INSTRUMENTATION

The following figures must not be exceeded:  
 Rev. per minute Max 6400 Rpm for max 5 minutes.  
 Water temperature 60 - 80°C (max 90°)  
 EGT (Exhaust Gas Temp.) 550 - 600 °C

## LUNA WING

This chapter is about the wing of the LUNA trike.

We will focus here on the specialties of the canopy and its suspension system.

The Wing was designed as a part of the Luna system together with the newly designed trim system, all components were carefully adjusted for maximum performance and safety.

Therefore the glider can only be flown on the Luna, and the Luna is not allowed to be used with any other wing as long as Fly Products does not provide any other information.

## THE FIRST FLIGHT

Carry out your first few flights only when the weather is stable, and in a familiar area.

In the beginning you should steer gently and carefully so that you can get used to the reactions of the paraglider while you are not in a stressful situation.

Caution!

Do not overestimate yourself! Don't let a paraglider that can easily be manoeuvred or the behaviour of other pilots make you careless.

## Section 7. PERIODICAL CHECKS:

### SAFETY ISSUES FOR GROUND TRANSPORTATION

Prior to towing on public roads a safety check has to be carried out.

In particular the main frame has to be checked for cracks, especially in the area of the coupling tube.

In case of a hard landing the rims could be deformed slightly, causing the wheel bolts to settle and to become loose.

The tire pressure must be between 1,5 and 2 bar on the rear axle and 1 bar on the front wheel.

### DAILY INSPECTION

Flight safety depends mainly on correct checks and maintenance procedures.

1. Engine: Check for any leakage, loose screws, cracks etc.
2. Propeller: Check correct sit, cleaning, tight screws and for damage.
3. Check oil and cooling agent level.

Cooling agent must be checked in the expansion bottle.

4. Check the gear box, the cooling system and the fuel system for any leakage. Especially check the tube connections.

5. Check the electrical connectors, the spark plug socket, the gas cables and the bowden cable distributor for a tight sit and mechanical integrity.

### CHECK PRIOR TO FLIGHT

Prior to any flight the responsible pilot has to carry out a visual inspection.

The pilot learns the necessary knowledge during his flight training and during a special briefing for the Luna, done by the dealer or flight school who sells the

trike.

## **Section 8. MAINTENANCE AND CARE**

Keep the Luna and the wing clean and dry. Don't use any aggressive solvents. Use grease or engine oil wherever metal slides over metal (rear suspension struts). Never use grease or oil between metal and plastic (front struts): The plastic will swell!  
Use there silicone based lubricants instead.  
Never use grease or oil or something similar on the upper bearing of the trim levers.

### **EVERY 25 HOURS**

- visible inspection of all screws
- Check the play and the free movement of any moveable parts like wheels, suspension system, trim levers etc.
- Lubrication of those parts: Metal to Metal: grease or engine oil,
- Metal to plastic: Silicone spray,
- Check the friction force in the trim lever bearing,
- Check of the front brake,
- Check of the gear oil level,
- Check of all bowden cables,
- Check of all belts, belt buckles, guide rollers,
- Optical check of all weld seams for any cracks
- Check of all rubber-metal-joints for cracks
- Check of the cooling agent level
- Tension check of the water pump tension
- Tightness check of the cooling system (leakage, water loss)

### **EVERY 100 HOURS**

- Same as 25h-Check, plus:
- spark plug change NGK - BR-8-ES
  - Gear oil change. (read the gear-box manual)

For further information check this link or scan the Qr code  
<http://www.flyproducts.com/eng/trike/scelta-trike/luna/>





## Maintenance overview.

Make a note on this summary table of all maintenance operation for a detailed maintenance overview refer.

Operation time (h)	Date	check	Inspector	Remarks

## Warranty

Fly Products (Seller, Our, Us) warrants the original Purchaser that this product shall be free from defects in materials and workmanship under normal use for a period of 12 months from the date of purchase. If for any reason this product is powered by fuel that does not meet the criteria stated in the engine manual, or is used with other equipment, parts or replaceable items (such as consumables) which are neither made nor approved by Fly products, Fly Products shall not be responsible for any loss of quality, degradation of performance or actual damage that results from the use of such fuel, equipment, parts or replaceable items. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. The dealer, from whom you purchased the product, or Fly Products, will repair the product free-of-charge. In no event shall Fly Products be liable to the Purchaser or any other person for any loss or damage whether direct or indirect or consequential or incidental, including without limitation, any damages or claims by third parties caused by defective products or otherwise arising from the incorrect or otherwise improper use of this product. This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage arising from improper maintenance or negligence
- damage caused by incorrect pilot operation
- damage caused by wind or adverse weather conditions
- fair wear and tear

Fly Products shall, at its option, repair or replace any defective products. Improper use, that is, use for purposes other than those mentioned in this manual will void the warranty.

Limited warranty Fly Products shall not be liable to the Purchaser or any other person for damage arising from improper storage, handling or use of this product. Repairs to this Product must be carried out by qualified technicians appointed by Fly Products. This Product must be assembled in accordance with the instructions in this manual.

To obtain warranty service, please contact your dealer or Fly Products directly. Shipping charges are the responsibility of the purchaser.

## Internet info and upgrade

For information, more details and news see our internet site: [www.flyproducts.com](http://www.flyproducts.com)

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