



# Wingstand

Manual



Version 1.1

2021

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# 1 Important instructions / safety



*Notes with a warning sign requires a special attention.*



*Notes with an informative sign provide with useful information.*

The Wingstand is designed for ground handling of a glider airplanes as an aid to glider maneuvering.

All information is presented for reference only.

Information in this document is subject to change without notice. SoaringXX reserves the right to change or improve their products and to make changes in the content of this material without obligation to notify any person or organisation of such changes or improvements.



*It is highly recommended to read the manual before assembling and using the wingstand!*

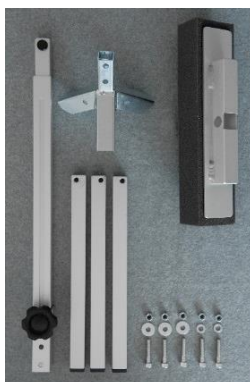


*SoaringXX is not liable for any damage caused by a lack of responsibility and improper use of its products.*

## 2 Packing list

The Wingstand package contains the following parts:

- 3 x anodized aluminium legs,
- Galvanized steel tripod,
- Extendable anodized aluminium profile,
- Foam upholstered wingrest,
- Set of five M8 screws with hexagon socket, five washers and five nuts.



**Figure 1:** Wingstand parts.

## 3 Basics

The Wingstand is a light and compact wing supporter that is used for assembly and disassembly of a gliders. It is made out of an anodized aluminium to ensure a lightweight and sturdy construction. It is a 6 piece assembly that is easy to assemble and disassemble. It is extendable, foldable and features a thick foam padding on the wingrest. To keep a construction even more sturdy a wingstand is also built from a galvanized steel tripod.

## 4 Technical Specifications

### 4.1 Dimensions

- Height: 84,5 - 122 cm (min. – max.)
- Width: 33,5 cm (wingrest)
- Foam length: 33,5 cm
- Foam width: 8 cm
- Foam thickness: 5 cm

### 4.2 Material

- Anodized aluminium
- Galvanized steel
- Foam
- Plastic

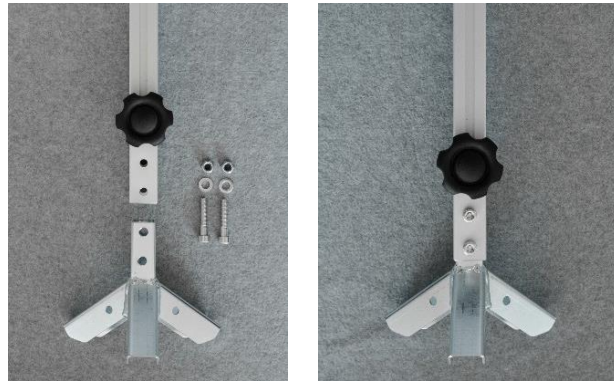
### 4.3 Weight

- Foam upholstered wingrest: 410 g,
- Extendable anodized aluminium profile with sets of two screws, washers and nuts: 650 g,
- Galvanized steel tripod + 3 x anodized aluminium legs with sets of three screws, washers and nuts: 1000 g
- Total weight: 2060 g.

## 5 Assembly / disassembly

### 5.1 Steel tripod & extendable profile

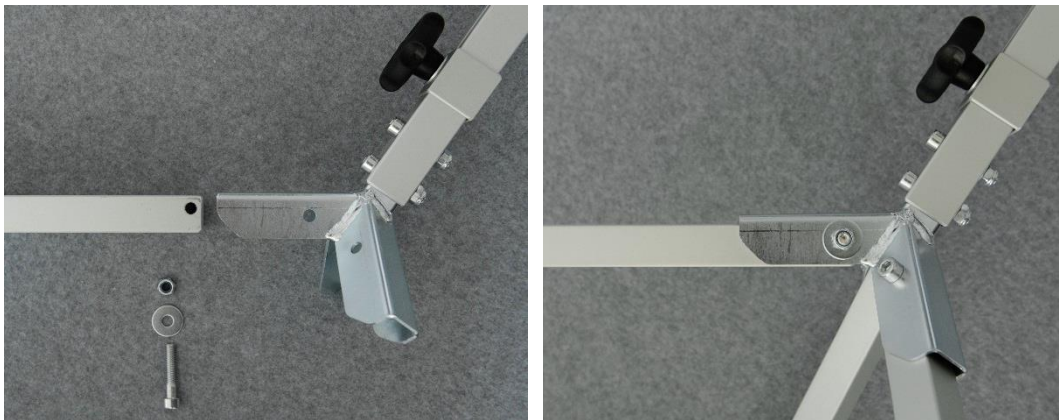
Screw-in the steel tripod to the extendable profile. Use 2 crews, 2 washers (16 mm) and 2 nuts.



*Figures 2 and 3: Showing the steel tripod and extendable profile before and after assembly.*

### 5.2 Legs & steel tripod

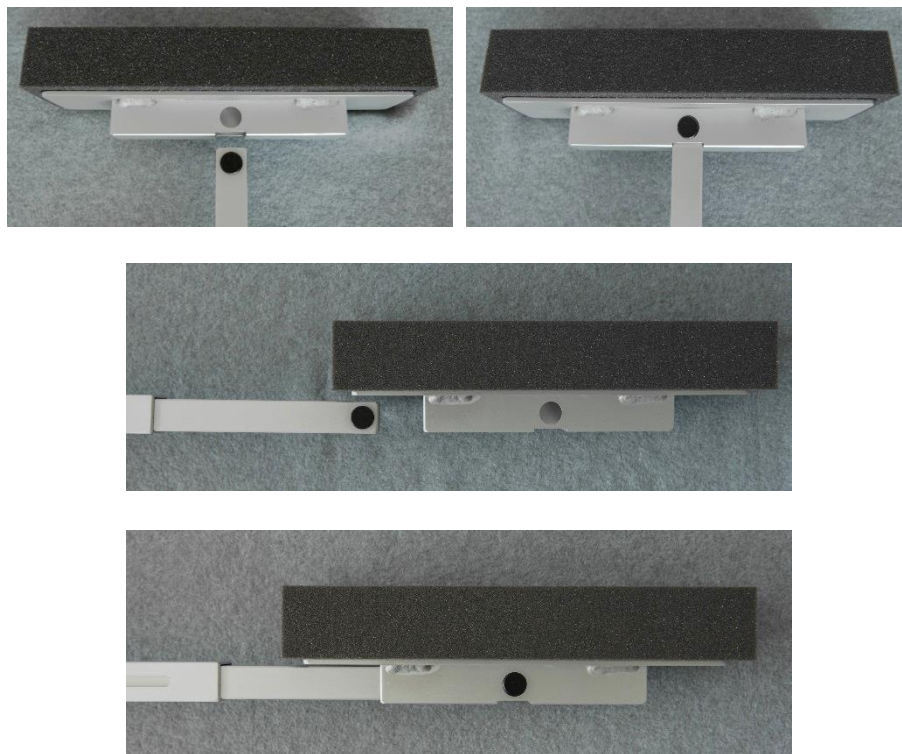
Screw-in all three legs to the steel tripod. Use 3 screws, 3 washers (24 mm) and 3 nuts.



*Figures 4 and 5: Showing the steel tripod and three aluminum legs before and after assembly.*

### 5.3 Wingrest & extendable profile

Attach the wingrest to the extendable profile by pressing to the black plastic button on the top of the profile and insert it into the dedicated socket on the wingrest. Wingrest should be vertically when stored and horizontally when used.



*Figures 6 – 9: Showing the steps of assembly of wingrest to the extendable profile.*



*Depend on packing size a wingstand comes fully disassembled or half assembled.*

## 6 Use / handling

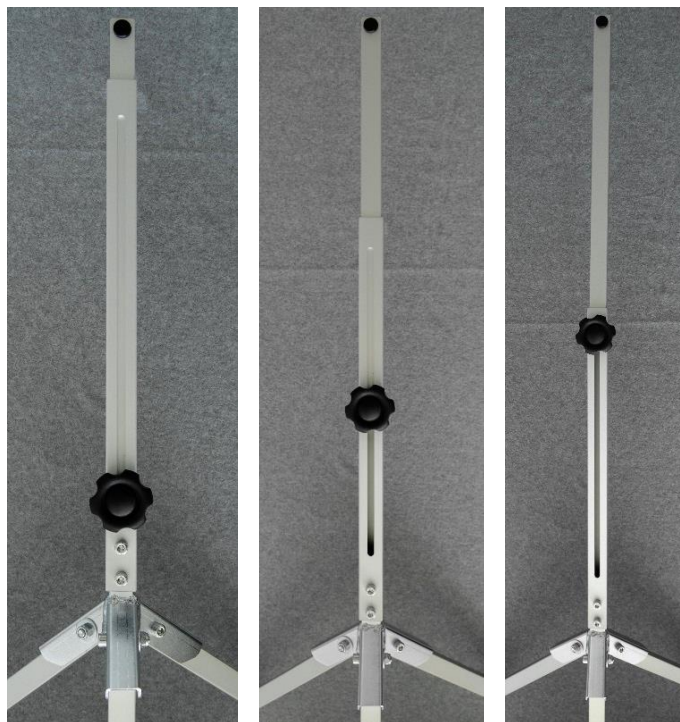
For easier understanding, please check the following video on the Youtube:

<https://www.youtube.com/watch?v=vgt9HTsTDSw>

**Step 1:** Spread all three aluminium legs until they touch the steel tripod.

**Step 2:** Change the position of the wingrest from vertically (when stored) to the horizontally (when used).

**Step 3:** Extend aluminium profile and set the appropriate height of the wingrest which varies from glider to glider. To lock the aluminium profile at the right height tighten the screw on the side of the profile with your hands.



**Figures 10 – 12:** Showing a different heights of the wingstand.

**Step 4:** Set the wingstand on the ground to the appropriate distance from the cabin (depend on the wing length) and it is ready to use.



*To avoid any damage to the wing during ground handling of a glider airplane please make sure to fully spread all three aluminum legs. The surface should be smooth and all three legs must be touching the ground at the same time. When the wing is placed to the wingstand make sure to place it over the whole foam area to secure it from falling. It is only intended for use when one side of the wing is already placed in the glider's body. Last but not least make sure to tighten the screw on the profile to prevent wingstand from folding.*



*Use of the wingstand is at your own risk!*

## 7 Warranty

This SoaringXX product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, SoaringXX will, at its sole discretion, repair or replace any components that fail during normal use. Such repairs or replacements will be made at no charge to the customer for parts and labour, provided that the customer is responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, unauthorised alterations or repairs and accidents.

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