

## **INSTALLATION GUIDE**

# Congratulations on the purchase of your Alado Roller Furler!

For decades, sailors around the world have trusted Alado Systems in all sailing conditions.

Your new Alado Roller Furler was designed to offer you trouble free performance for many years.

Installation is simple and requires no special tools or training.

Please take a few minutes to read this Installation Guide to ensure that your installation will be awesome.

We offer a FREE telephone coaching session before you install your new Alado...just reach out to us.

And if you do have questions or need assistance your Alado USA team is here to help you.

Lifetime Warranty – Original Purchaser

Alado will replace any part that is defective due to workmanship or material. Shipping charges may apply outside the USA.

### **Contact us:**

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Tel. 443-810-8366



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#### ADD USER NOTES HERE



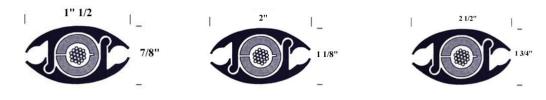
## **FOILS & BUSHINGS CHECK LIST**



#### Use this guide to select your Alado System

Model	<b>A</b> 0	A1	A2	<b>A</b> 3	A4	B1	B2	<b>B</b> 3	<b>B</b> 4
5' Foils	5	6	7	9	10	10	12	14	15
2.5' Foils	2	2	2	2	2	2	2	2	2
Total Foils	7	8	9	11	12	12	14	16	17
Total	13	15	17	21	23	23	27	31	35
Bushings									
Foil Diameter	1.5"	1.5"	1.5"	2.0"	2.0"	2.5"	2.5"	2.5"	2.5"

#### **Definition of Foil Diameter**



#### Note:

There is always a quantity of 2 (two) 2.5 Foot Foils with every System.

2 (two) Bushings for every foil section.



## **COMPONENTS CHECK LIST**



Drawing #	Item	Qty
1 & 2	Foil	See above
3	Foil Bushing	See above
4	Furling Drum and Housing	1
5	Furling Drum Centralizer 4-inch (Polypropylene)	1
6	Stay Clamp (Polypropylene)	1
7	Top Foil Terminal 2 halves with sheaves	1
8	Bottom Foil Terminal 2 halves	1
9	Aluminum Luff Feeds	2





## **MATERIALS REQUIRED CHECK LIST**

#### **Halyard Specifications**

Diameter - Models A0 to A2 Use 1/4" A3 to B Series 5/16"

Note: Double the length of forestay and add 5 feet

**Furling Line Specifications** 

Diameter – Models A0 to A2 Use 5/16" A3 to B Series 3/8"

1.5 x Boat Length or 2.5 x Sail Foot Length or greater

Furling Blocks/Fair Leads – Drum to Cockpit

## **TOOLS CHECK LIST**

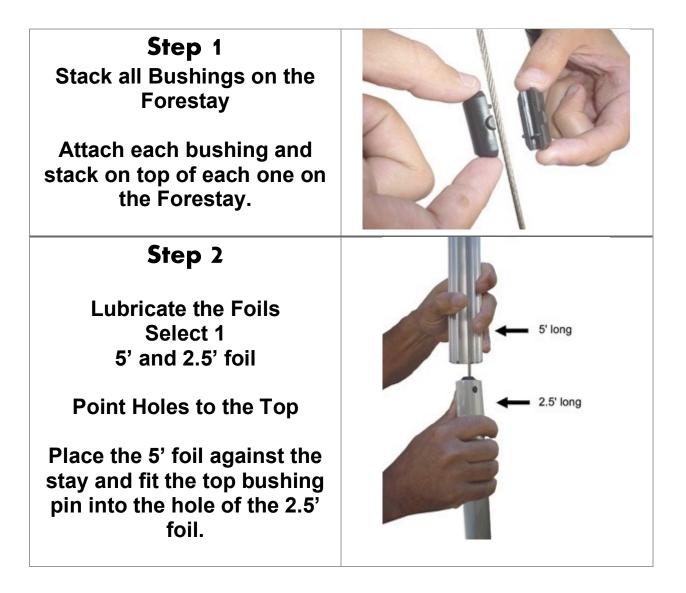
Tools Required	Qty
7/16" Wrenches or	2
Heavy Duty Vice Grips	2
Hacksaw (steel)	1
File (For Deburring)	1
Tools to detach Forestay	
WD-40, Silicone Spray or Vaseline for sliding foils	
Additional Messenger Line for Spare Halyard	



## **ADD USER NOTES HERE**



## **INSTALLATION**

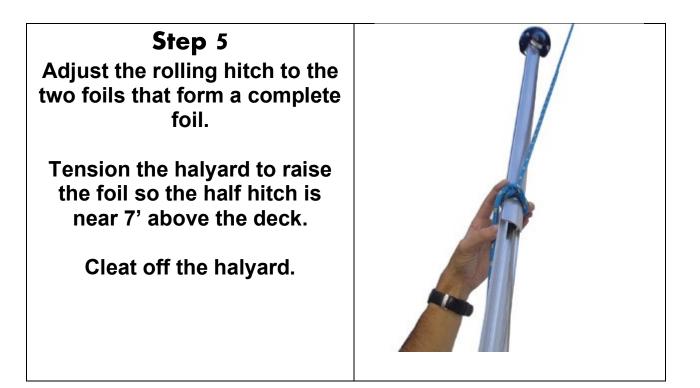




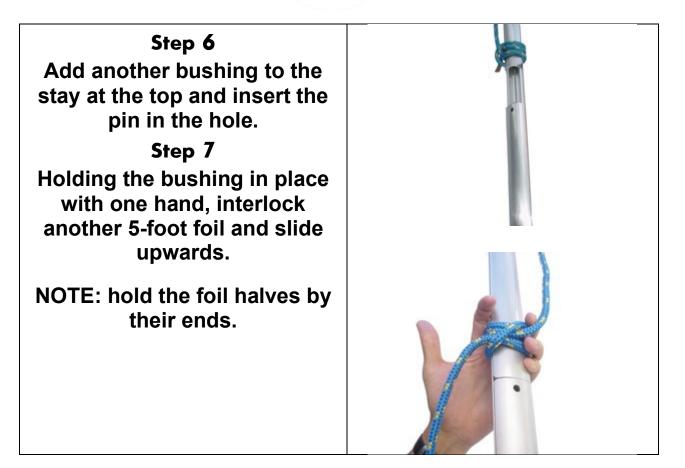
## Step 2 ...continued With one hand securing the bushing, align the grooves and slide upwards until the tops of the foils are aligned. Step 3 Attach a messenger line to the forestay halyard and tie a rolling hitch around the foil. If the halyard is wire attach nylon line to grip the foil to avoid scratching the foil. Secure the retrieval line so the halyard doesn't get away from you. Step 4 Attach the Top Terminal (7) by placing both halves over the top end of the Top Terminal and secure with bolts provided.



#### **Step 4 continued** Holding the top end, feed the halyard(s) through the sheave(s). To prevent the halyards from falling out of the sheaves, fasten or join the bitter ends to something secure within reach.







#### Step 8

Push the foil upward to release the halyard tension in order to allow the foil to be slid upward through the rolling hitch.

Continue to raise it up to the point where the halves that form a complete foil are just above the knot.





#### STEP 9

Repeat Steps 6 through 8 until no more foils can be fitted on the stay without detaching the stay from the deck fitting.

#### STEP 10

## Haul on the halyard supporting the foils until the top terminal touches the masthead stay terminal.

#### STEP 11 - Preparing for Luff Feeds and Final Foils

Temporarily fasten the Stay-Clamp at the shoulder of the swage or stalock fitting above the turnbuckle/deck fitting.

Measure the distance from the bottom of the Stay-Clamp to the top surface of the drum. This will give you a close idea of how much space you will have to fit the luff feed(s) and last foils. If it helps use a small piece of electrical tape or marker pen to mark the position on the forestay where the top of the drum will be. Remove the Stay-Clamp.

Remember "Measure three times and cut once"

In order for the entire system to rotate, the Alado Top Terminal ideally should not touch any part of the Mast or Masthead Stay upon final installation. You can measure the final cuts to allow for distance between the cuts.

A general rule of thumb is with the foil terminal tensioned against the top mast stay terminal, leave about ten inches between the bottom of the foil and the top of the lower stay terminal. Whenever possible, take advantage of the existing overlap in foil-halves when fitting the luff feeds.

Since both foil halves should rest as flat as possible on the Top Drum, you now have a close idea of how much foil to cut for the final fit.

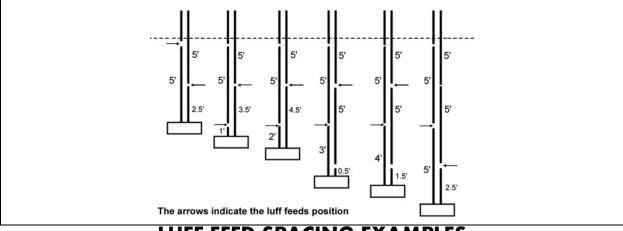


#### You may choose to install 1 or 2 luff feeds.

Either way to do this you will have to cut one or more sections of foil-half.

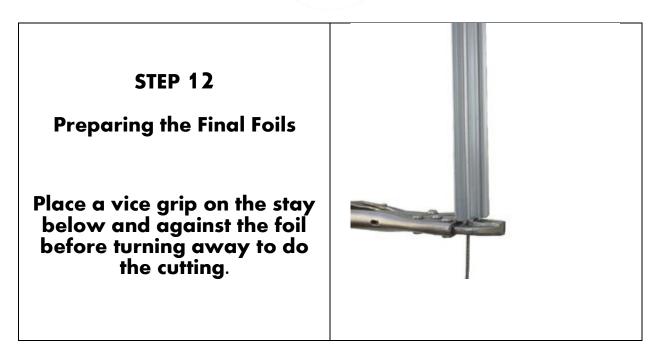
Joints between foil-halves should be at least twelve inches apart to maintain torsional strength of the foil. The height of the luff feeds above the drum is not critical. They should normally be between one foot and five and a half feet above the lower stay terminal (see the diagram). For most boats, this nicely accommodates handling of two sails.

Whenever possible, take advantage of the existing overlap in foil-halves when fitting the luff feeds.

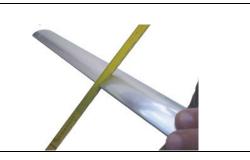


LUFF FEED SPACING EXAMPLES





STEP 13 Cut the desired lengths of foil-halves and dress them with a file.



#### **STEP 14**

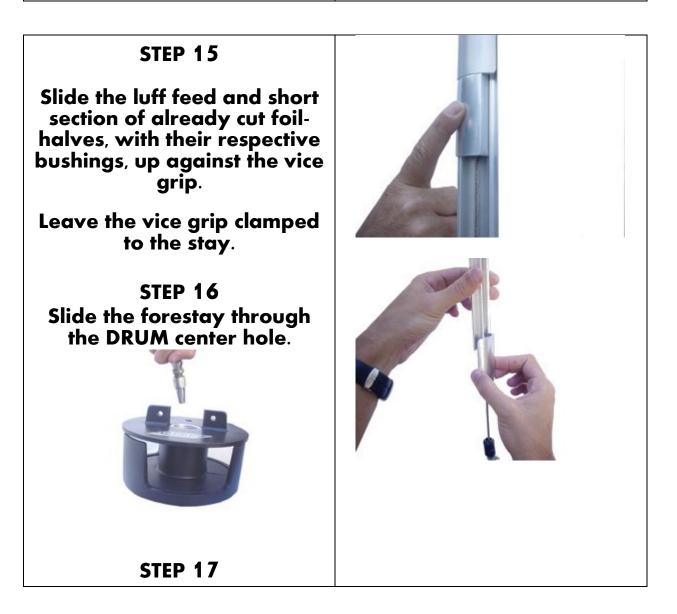
Secure the foil in position with a line from the bow pulpit. The best place to tie to the foil is around the hitch in the mast halyard.

Use other boat halyards to secure the mast if necessary.





#### Only then, loosen and remove the forestay from the deck stay fitting.







STEP 17...Continued Re-attach the stay to the deck fitting and re-tension it.

Remove the vice-grip between the DRUM and the FOIL and install the DRUM

CENTRALIZER. (5)

#### **STEP 18**

Assemble the polypropylene clamp on the stay below the drum and tighten it.

Remove the remove the remaining vice-grip.

**STEP 19** 





Put the foil terminal base on the drum without tightening it.

Carefully loosen the rolling hitch securing the foil and guide the foil slowly into the foil base.

Tighten the bolts on the base so they are just snug.

DO NOT OVERTIGHTEN bolts or you risk breaking the clamps.



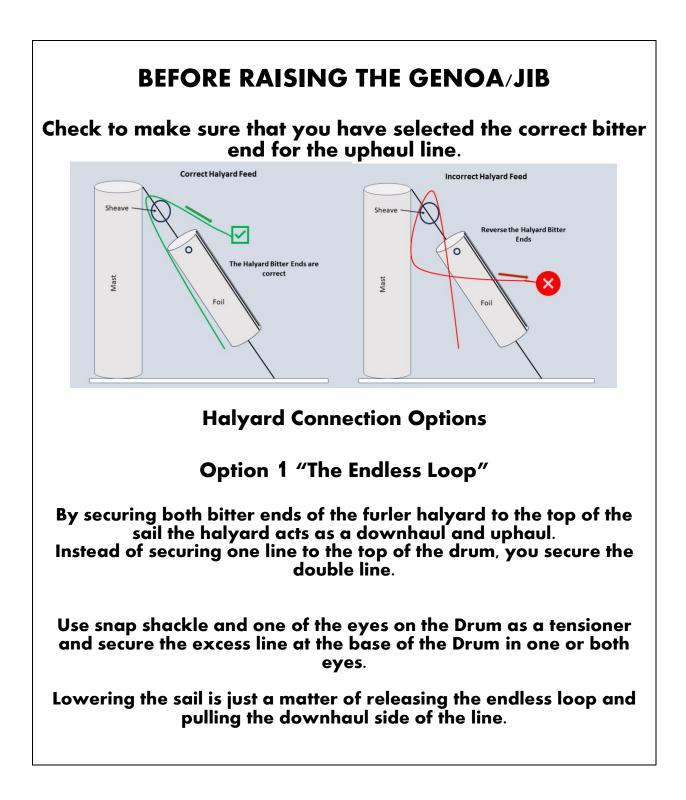
#### STEP 20 Congratulations

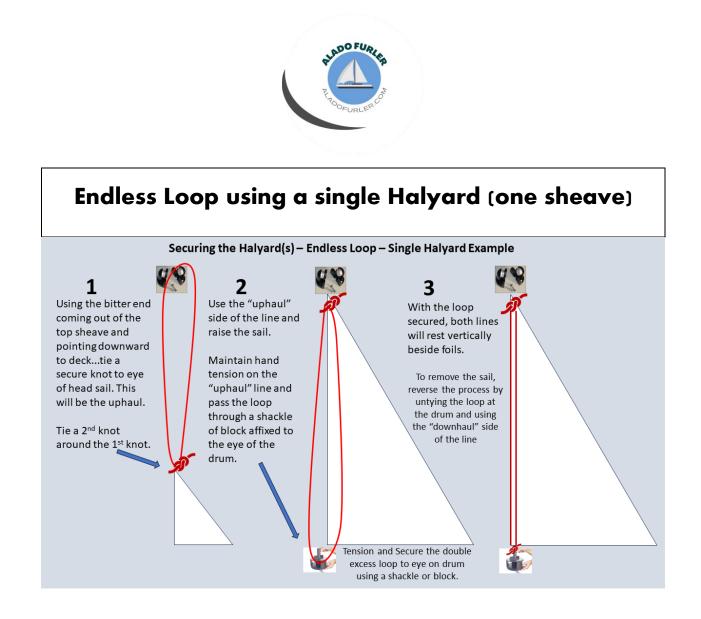
Your Alado Roller Furling is Assembled

Don't forget to remove and stow any fixed ship's halyards.









#### **Option 2 Halyard Cut Off Method**

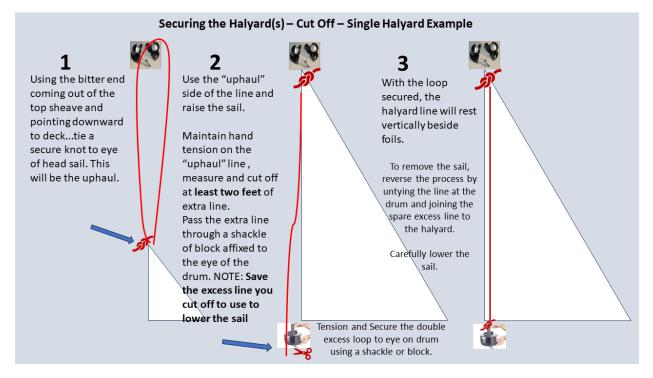
Secure the bitter end of the halyard line that will be the uphaul and raise the sail to desired tension.

Leave enough excess so you can secure the line - 24 inches minimum, cut the line (save it for lowering later) and secure the excess line at the base of the Drum in one or both eyes.

Lowering the sail requires the bitter end to be secured to either the excess line you saved or the use the bitter end of the furling line or another line.



### The Halyard Cut Off Method.

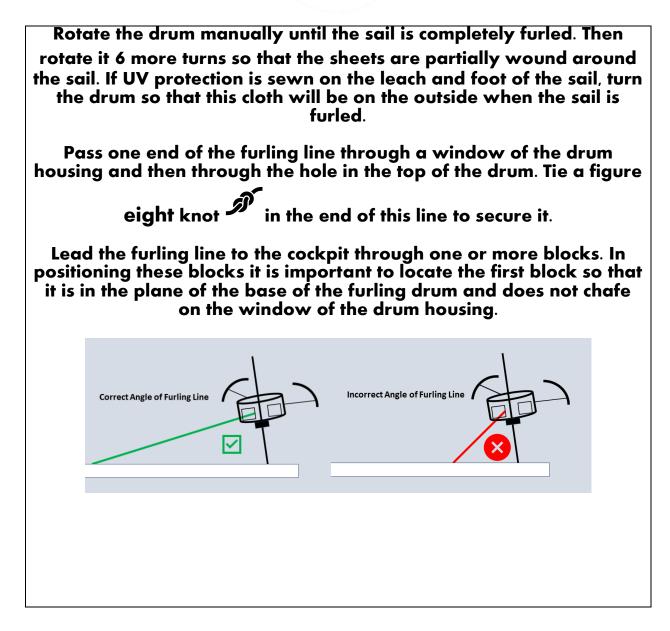


#### **Installing the Furler Line**

Secure the outer drum housing to a bow rail, stanchion base, forestay deck fitting, cleat or a dead eye so the drum will not rotate. Do not make a final choice of this location until you have installed the furling line and tested it.

There is little torque generated when the drum rotates.





#### The Alado Roller Furling System Is Ready to Use.



#### **USING THE ROLLER FURLING SYSTEM**

To unfurl the genoa, un-cleat the furling line and pull on the leeward sheet. It is very important to hold some tension on the furling line.

To furl the genoa, release the sheets and pull on the furling line. Holding some tension on the leeward sheet will result in a smoother furl.

Always remember to secure the furling line after furling the sail.

This will prevent the sail from unfurling during a strong blow. There are holes in the bottom of the drum and housing where you can also pass a rope or padlock as an additional security measure.



# Fair Winds, The Alado USA Team Questions? Call us 443-810-8366

**Email: Orders@aladofurler.com**